

U. S. DEPARTMENT OF COMMERCE

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In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

JANUARY 1949

Volume LX No. 1



C. E. Lamoureux, Section Director - Des Moines

GENERAL SUMMARY

The month of January was characterized by two opposite weather regimes. During the first 15 days, it was exceptionally mild with daily readings rising to 10-25° above normal on as many as 7 days. The last half of the month was persistently cold and disagreeable with subzero readings on 5 to 14 days. For January, precipitation was heavy in both periods and the monthly average for the State, 2.72 inches, was the greatest amount for any January during the period of our records.

The first 4 or 5 days of the month were essentially cloudy in connection with a major storm that plagued the midwest. However, Iowa escaped the full brunt of the storm but received general rains or rain mixed with snow on the 3-4th. To the west, however, the Dakotas and Nebraska were hit by one of the severest blizzards of record. Due to an unusual movement of a low pressure center from eastern Oklahoma to eastern Nebraska, the snow and strong winds "funneled" southward in a narrow jet across the Great Plains into Texas while farther east, a strong current of warm air was pushing northward causing severe storms and tornadoes from Louisiana to Kansas. In Iowa, thunder and lightning was observed in all quarters of the State which is unusual in January but not rare. Although there was a drop of temperatures as a result of this weather, the temperature still remained at or above the seasonal levels. From the 6th through the 9th, daily temperatures rose again to readings in the 40's and 50's under the influence of warming winds from the west and clear skies. This spell of open weather was broken on the 10th when snow, sleet and glaze covered the southern half of the State. This condition was caused by a wide stream of warm, moist air overrunning a shallow cold air mass that covered the midwest. The freezing rain (glaze) was light so that only small damage was done to power or telephone lines, whereas this condition caused severe glaze to portions of States to the south of Iowa. The sleet and snow that followed the glaze accumulated from 1 to 4 inches in depth in the southern half while northern Iowa experienced only snow flurries. Cloudy skies continued until the 13th when a strong westerly flow brought rapid clearing. A return to southerly winds brought rain and drizzle to the State early on the 15th. Amounts were less than 1/10 inch in the northwest but ranged from 1/4 to 3/4 inch in southeast.

A strong invasion of cold arctic air on the 16th pushed completely across the State which was the beginning of below normal temperatures that prevailed for the remainder of the month. The period was characterized by subzero readings on 10-14 days in northwest and extreme northern Iowa to 4-7 days in the south and southeast. The lowest temperature for the month and the winter season to date occurred at two points at two different dates; Sibley, near the Minnesota border in Osceola County -31°F, on the 22nd; and Elkader in Clayton County, -31°F, on the 30th. On the 17th, the interaction of this cold air in the Gulf States caused a broad band of precipitation to form suddenly and move within 24 hours from the Gulf area to the Great Lakes. Iowa was on the edge of this precipitation belt and from 1-5 inches of snow fell in the southeast half. Another surge of arctic air on the 19th followed this development and near zero to subzero readings persisted until the 23rd. Also, another 1 to 2 inches of snow accumulated on the 20th which was followed on the 23rd by freezing drizzle and rain that again made highway travel rather hazardous. The freezing rain was heavy enough to cause several hundred wire breaks in telephone lines in the western and northern portion of the State.

The most severe ice and snow storm occurred on the 27th-28th. A low pressure disturbance, even though it was centered in New Mexico, was intense enough to cause widespread precipitation over the midwest, and, as it moved rapidly into southwest Missouri, the intensity of the storm was increased. In Iowa, the precipitation was varied as to type and intensity with freezing rain and sleet alternating with heavy falls of snow. Most of the snowfall had ended by noon of the 28th, but the strong northwesterly winds that began early on the 28th caused near blizzard conditions in the northwest counties. Except in the extreme northwest and the extreme southeast, the State received from 6 to 14 inches of snow. In the southeast, much of the moisture was in the form of rain and sleet so there was little accumulation of snow.

Moisture amounts, except for the extreme northwest, ranged from 3/4 to slightly over 2 inches. The winds on the 28th caused considerable drifting of snow and highways were blocked temporarily. All forms of transportation were practically halted for 12 to 24 hours in the heavy snow areas and many schools were closed on the 28th and 29th. Most of the secondary or side roads remained impassable for the remainder of the month.

The frequent recurrence of snow, sleet or freezing rain kept the roads and highways in a rather hazardous condition most of the month. Wild life in some areas were suffering from a food shortage caused by the frequent and persistent snow and ice cover. The weather was equally disagreeable for livestock feeding and agricultural operations as it was for the people of the State. At the end of the month, snow depths on the ground ranged from 4 to 16 inches of snow cover, except along the Mississippi River where only several inches of snow remained. The heaviest snow cover that remained was in a narrow band from Fayette to Poweshiek County. This unusually heavy precipitation in January greatly improved the water supply and stream flow situation which had been at a low level throughout the latter part of 1948.--MDM

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ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
JANUARY 1949

Station	Sea level pressure extremes—_inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	Degree days 65° base
Burlington WB Airport	30.77	19	29.27	27	12.5	40	SW	5	85	86	81	84	37	1277
Charles City WB City	30.85	10	29.53	15	7.7	21	SW	5					44	1491
Davenport WB City	30.79	20	29.26	27										1264
Des Moines WB City	30.80a	10	29.50a	15	11.3	31	N	27	81a	80a	74a	79a	40	1443
Dubuque WB City	30.82	20	29.37	27	6.0	20	N	28	79	79	69	74	45	1336
Sioux City WB Airport	30.87	10	29.48	15	12.5	35	NW	15	81	82	74	80	49	1606

a - airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	12.0	55	-38	2.53			1903	23.0	60	-12	0.28	2.0	4	1933	32.5	62	-10	0.95	1.4	5
1874	19.6	64	-24	1.67			1904	14.0	57	-32	1.18	6.1	6	1934	26.9	67	-14	0.83	4.4	5
1875	4.9	48	-30	0.82			1905	11.2	56	-30	0.91	11.1	7	1935	20.6	58	-30	1.16	2.9	6
1876	23.5	62	-16	1.49			1906	24.6	69	-19	1.52	11.3	5	1936	9.5	56	-33	1.68	19.4	10
1877	13.7	58	-31	1.09			1907	18.8	68	-22	1.52	6.0	7	1937	12.8	46	-30	2.25	10.5	7
1878	25.4	55	-13	0.48			1908	24.9	60	-18	0.44	4.6	2	1938	21.0	59	-25	1.14	6.8	7
1879	16.1	54	-30	0.48			1909	21.2	72	-25	1.66	7.8	6	1939	28.7	69	-12	0.86	6.0	7
1880	32.0	68	-6	1.36			1910	18.1	56	-35	1.57	12.6	6	1940	8.4	45	-26	0.83	9.9	4
1881	9.6	48	-40	0.94			1911	20.2	66	-35	0.97	7.3	5	1941	23.8	59	-8	1.73	10.2	10
1882	23.4	60	-17	0.65			1912	4.2	49	-47	0.53	5.5	5	1942	21.6	64	-36	0.76	8.1	2
1883	8.0	46	-38	1.31			1913	20.9	62	-25	0.77	7.2	5	1943	16.7	54	-31	0.79	9.2	8
1884	13.3	52	-38	0.52			1914	27.8	64	-10	0.88	5.1	5	1944	30.1	70	-15	1.06	0.8	2
1885	9.4	51	-42	1.28			1915	17.5	59	-32	1.63	7.3	8	1945	19.3	49	-26	0.67	8.1	5
1886	8.1	52	-33	2.59			1916	17.8	63	-34	2.62	7.2	10	1946	22.8	61	-22	1.82	4.3	7
1887	8.8	55	-34	1.13			1917	17.0	60	-28	0.83	7.2	4	1947	26.0	64	-30	1.46	12.8	7
1888	5.4	58	-43	1.30			1918	8.6	53	-35	1.02	11.2	7	1948	17.6	58	-27	0.45	3.8	2
1889	21.6	62	-25	1.22			1919	26.8	64	-32	0.24	2.8	2	1949	18.1	63	-26	2.72	12.7	10
1890	18.0	64	-27	1.79			1920	16.7	58	-26	0.42	4.6	4	Period	18.8	72	-47	1.11	7.2	5
1891	26.0	58	-4	1.75		4	1921	28.4	67	-9	0.51	4.1	4							
1892	15.3	62	-38	1.09	6.9	5	1922	19.8	57	-29	0.89	5.3	4							
1893	9.3	54	-34	0.74	6.9	6	1923	26.7	58	-10	0.85	6.5	6							
1894	19.3	69	-37	1.09	6.0	5	1924	13.9	59	-36	0.89	5.5	5							
1895	13.6	68	-31	0.85	8.7	4	1925	19.4	55	-24	0.40	4.2	3							
1896	23.4	68	-20	0.48	2.8	3	1926	22.7	58	-22	1.09	5.0	7							
1897	17.2	66	-30	2.01	8.2	7	1927	21.7	59	-27	0.29	3.0	4							
1898	23.4	52	-11	1.60	12.6	5	1928	25.2	70	-20	0.17	0.9	3							
1899	19.8	68	-34	0.28	1.5	3	1929	10.2	47	-29	2.06	17.5	9							
1900	25.6	66	-20	0.53	2.3	3	1930	10.5	58	-37	1.33	14.7	8							
1901	23.7	60	-21	0.74	6.2	4	1931	28.9	64	-15	0.50	5.1	2							
1902	22.4	63	-31	0.88	9.4	4	1932	22.5	61	-22	1.81	13.6	8							

CLIMATOLOGICAL DATA

IOWA
JANUARY 1949

Table 2

Station	Temperature								Precipitation									
	Average	Departure from Normal	Highest	Date	Lowest	Date	No. of Days		Total	Departure from Normal	Greatest Day	Date	Snow, Sleet, Hail			No. of Days		
							Max. 90° or above	Min. 32° or below					Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	15.0	-2.6	47	7	-14	29	31	2.24	1.43	.76	4		10	28 +	8	3		
Alton	15.3	-1.5	47	8	-20	22	31	.85E	.17	.25	3	6.0	5	23 +	6	1		
Cherokee	15.0	-2.4	46	7	-16	22	30	1.58	.96	.69	3	5.8	5	28 +	9	2		
Emetsburg	15.2		48	7	-13	22 +	31	1.22E		.75	23	5.9	8	4 +	8	1		
Estherville	13.6	-1.0	47	7	-15	22 +	31	2.05E	1.38	.86	4	9.0	10	1 +	11	2		
Hawarden	14.5	-3.0	45	7	-20	22	31	1.22	.62	.60	3	7.2	14	1 +	12	2		
Inwood 2 W	12.2	-2.8	48	7	-24	22	31	.86	.25	.60	4	3.4	7	1 +	6	1		
Lake Park	12.7	-.8	43	7	-20	22	31	.92	.29	.20	3 +	11.0			8			
Le Mars	14.5	-3.8	48	7	-17	22	31	1.06	.44	.80	3	3.0	8	1 +	4	1		
Milford 4 NW	12.3	-1.9	44	7	-18	22	31	1.25E	.60	.39	23	7.0	9	1 +	12	3		
Pringhar 4 NW	13.2	-2.6	44	7	-16	29	31	.94	.26	.50	23				6	1		
Rock Rapids	13.1	-1.7	43	7	-24	22	31	1.19	.57	.39	4	6.5	6	1 +	5	3		
Sanborn	11.8	-3.0	41	7	-19	22	31	1.61	.93	.36	4	10.5			10	3		
Sheldon	12.7	-2.3	43	7	-21	22	31	1.42	.77	.67	3	7.5	10	1 +	10	2		
Sibley	12.5	-1.3	43	7	-31	22	31	1.03	.43	.40	3	6.5	6	4	6	2		
Sioux Rapids	13.3	-3.1	48	7	-15	21 +	31	.96	.16	.60	3	3.0	6	2	6	1		
Spencer 1 N	12.1	-2.7	45	7	-19	21 +	31	1.73	.98	.46	24	4.3	9	2	9	3		
DIVISION	13.5	-2.4						1.30	.62									
NORTH CENTRAL DIVISION																		
Algona	16.0	-.7	46	7	-12	29 +	31	2.45	1.63	1.15	23	6.4	8	1 +	11	2	1	
Allison	17.2	.7	49	7	-16	22 +	30	2.18	1.08			11.0	9	28 +	8			
Bancroft	13.5	-1.6	42	7	-15	22 +	31	1.60E	.75	1.00	24		8	4 +	3	2	1	
Britt	13.6	-2.2	42	8	-17	30	31	3.17	2.44	.93	4				10	3		
Charles City	16.9	1.5	46	7	-14	30	31	2.91	1.82	.74	27	11.7	9	28	12	5		
Clarion	15.9	-1.1	44	8	-16	30	31	1.91	.91	.70	23	9.0	9	28 +	7	2		
Dakota City	16.0	-1.7	45	7	-14	30	31	2.37	1.50	.70	23	10.4	9	28 +	8	4		
Hampton	17.2	.9	47	7	-13	22 +	31	2.54	1.38	.86	4	14.0			9	4		
Mason City 3 N	16.0	.3	43	8	-15	29	31	2.56	1.65	.63	3	9.5	8	28 +	10	5		
Mason City AP CAA	14.5	-1.2	42	7	-15	29	31	2.38	1.47	.75	3	3.2	8	1 +	14	4		
Northwood								3.79	2.71									
Osage	16.3	1.3	44	7	-17	30	31	1.72	.63	.76	4		10	28	8			
DIVISION	15.7	-.3						2.47	1.48									
NORTHEAST DIVISION																		
Cascade	19.9		50	7	-25	22	30	2.79				16.9	8	28 +	10			
Cresco	15.4	1.4	44	8	-20	29	31	2.74	1.62	.80	4	10.3			8			
Decorah Dry Run	18.2		49	8	-24	30	30	1.95		.40	28		14	28 +	11	4		
Decorah 2 S	16.9	2.4	46	8	-24	30	30	2.38	1.21	.90	28		12	28 +	11	3		
Delaware 2 W	18.3	.6	47	8	-20	30	30	3.11	1.95	1.45	28	16.6	13	28 +	8	4	1	
Dubuque L & D 11	20.8	.5	50	15 +	-20	30	30	2.77	1.56	1.10	28	19.5	17	28 +	13	4	1	
Dubuque WB City	22.0	1.7	52	15	-16	30	29	2.93	1.72	1.34	27	17.7	10	28	13	4	1	
Elkader	17.5	.5	50	7	-31	20 +	30	2.67	1.52	.75	28	21.5	16	28	10	5		
Fayette	17.6	1.1	46	7 +	-23	22	30	3.06	1.90	.74	28	20.7	16	28	14	6		
Guttenberg L & D 10	21.1	1.1	53	15	-18	30	31	2.14E	.99	.93	28		9	28 +	12	2		
Independence 2 W	16.7	-1.7	48	8	-26	30	31	2.47	1.50	.60	28	22.8	14	28 +	10	5		
New Hampton	15.0M	-.8	46	7	-23	30	31	2.33	1.32			15.5	15	28 +	8			
Oelwein	18.4	1.5	48	7 +	-15	30	30			.63	28		11	28				
Tripoli	18.4		50	7	-18	30	30	3.50					14	28	7			
Waterloo	18.3	-.9	49	7	-18	22 +	31	2.78	1.73	1.20	28	16.2	14	28 +	11	4	1	
Waukon	15.4	-.3	44	15	-23	30	31	2.35E	1.20	.82	4	14.5	14	28	9	4		
DIVISION	18.1	1.0						2.66	1.54									
WEST CENTRAL																		
Audubon 2 S	15.0	-5.0	44	7	-14	29	31	3.30	2.35	.94	3	13.0	9	28 +	10	5		
Carroll	16.7	-2.5	46	7	-13	29	31	2.07	1.29						7			
Castana 4 E	15.4		47	7	-12	29 +	31	2.43		1.16	3		10	28 +	7	3	1	
Cushing 3 NE	14.6	-4.1	44	7	-15	29	31	1.88	1.16	.79	3	7.0	6	28 +	11			
Denison 2 S	15.6	-4.0	46	7	-14	29	31	2.04	1.29						5			
Guthrie Center					-11	29 +	31	2.12	1.18	.54	27	10.2	8	28 +	10	3		
Harlan	16.9	-3.4	45	7	-16	30	31	2.88	2.10	.70	27	16.5	12	28 +	8	6		
Ida Grove	15.5	-3.6	43	7 +	-16	29	31	2.33	1.55	.71	27	15.0	13	31	10	4		
Jefferson	17.7	-2.1	48	7	-15	30	31	3.29	2.34	.70	27	13.0	10	28 +	10	4		
Lake City	16.2	-2.3	46	7	-14	29	31	1.31	.31	.39	27	8.3	7	28 +	7	2		
Logan	15.9	-5.5	43	7	-15	30	31	3.16	2.41	1.35	3	16.0	14	28 +	7	4	1	
Mapleton 5 NW	15.3M	-4.7	44	7	-13	30	31	1.97	1.22	1.18	3	9.0	8	27 +	5	3	1	
Missouri Valley	18.1	-3.8	48	7	-13	29	31	3.61	2.91	1.56	3	14.3	11	28 +	10	3	1	
Onawa	15.4	-5.6	46	7	-15	30	31	3.83E	3.08	1.42	4	15.7	13	28 +	11	4	1	
Rockwell City	15.9	-2.3	46	7	-16	30	31	2.49	1.40	.73	23	11.1	11	28 +	12	4		
Sac City	16.5	-2.1	47	7	-12	29	31	2.15	1.27	.71	23		9	28 +	11	3		
Sioux City WB Airport	13.2	-5.1	46	7	-15	29 +	31	2.44	1.78	1.09	3	10.5	10	28 +	11	3	1	
DIVISION	15.9	-4.0						2.55	1.72									
CENTRAL DIVISION																		
Ames 3 SW	17.8	-2.1	46	7 +	-16	30	31	2.16	1.29	.58	27	12.8	8	27 +	12	5		
Boone	18.4	-1.6	50	7	-11	29 +	30	3.20	2.23	.79	27	13.1	11	28 +	13	5		
Des Moines WB Airport	18.5	-2.5	50	7	-13	30	30	3.12	2.07	1.24	27	18.1	13	28	13	4	1	
Des Moines WB City	19.3	-2.9	53	7	-11	30	31	3.03	1.98	1.10	27	18.3	12	28 +	11	4	1	
Fort Dodge	16.9	-.5	47	7	-14	29	31	2.69	1.78	.82	28	12.5	12	28 +	8	4		
Grinnell	18.4	-2.2	50	7	-17	29 +	31	2.97E	1.82	.94	27	21.4	16	28 +	11	5		
Grundy Center 5 NE	18.4	.9	48	7	-22	22	30	2.48	1.34	.52	4				9			
Iowa Falls 1 N	16.8	-.7	47	7	-15	29	31	2.59	1.44	.98	4	8.5	8	28 +	9	4		
Marshalltown No 1	18.0	-1.6	51	7	-24	22	31	2.92	1.77	.67	28	14.5	11	28 +	12	5		
Newton	19.6	-1.9	52	7	-15	22	30	3.71	2.51	.79	27	18.8	10	28	10	7		

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
JANUARY 1949

Table 2—Continued

Station	Temperature								Precipitation									
	Average	Departure from Normal	Highest	Date	Lowest	Date	No. of Days		Total	Departure from Normal	Greatest Day	Date	Snow, Sleet, Hail			No. of Days		
							Max. 90° or above	Min. 32° or below					Total	Max. Depth on Ground	Date	.01 or more	.25 or more	1.00 or more
Perry 2 SE	18.1	-2.7	48	7	-14	30		31	2.38	1.38	.55	28	12.7	10	28	13	4	
State Center	18.3	-1.7	44	7 +	-13	22 +		30	2.77	1.62	.54	3 +	18.1			10	5	
Toledo	19.5	-1.1	52	7	-19	22		31	3.16	2.05	.94	27	19.5	15	28 +	12		
Waukeo	19.6	-1.2	50	7 +	-13	30		31	2.54	1.42	.80	28	10.8			9	4	
Webster City	17.0	-.2	48	7	-20	30		31	2.69	1.75	.81	23	13.2	13	28 +	10	4	
Woodward 7 N	18.6	-1.9	47	7	-14	30		31	1.97	.99	.45	28	11.2	7	28 +	10	3	
DIVISION	18.3	-1.6							2.77	1.70								
EAST CENTRAL																		
Anamosa 1 NW	19.3	.3	51	7	-22	20		30	3.13	1.93	.97	27	16.0	10	28 +	11	4	
Belle Plaine	19.3	-.8	52	7	-20	30		30	3.05	1.70	.62	4	20.1	13	28	17	5	
Bellevue Lock & Dam	22.8	1.5	51	15	-18	20		31	3.10	1.80	1.00	28	8.6	5	19	13	5	1
Cedar Rapids No 1	20.5	.2	50	7 +	-16	22		31	3.17	2.08	1.03	28	15.6	10	28 +	16	5	1
Clinton No 1	23.5	.5	53	7	-12	20		30	3.22	1.70	.57	15	12.4	6	19	10	7	
Davenport WB City	24.3	1.1	55	7 +	-6	29 +		27	3.65	2.25	1.18	27	7.7	6	19	12	5	1
Iowa City AP CAA	19.4	-1.5	53	7	-21	20		29	3.19	1.96	1.31	27	13.7	9	28 +	13	4	1
Le Claire L & D 14	23.9		54	15	-9	20		29	3.44	2.01	.90	28	5.9	5	19 +	14	6	
Monmouth 4 SW	20.5	.5	49	7 +	-16	20 +		31	1.62E	.30	.40	15	10.7	5	18 +	13	2	
Muscatine No 1	23.2	-.1	55	7	-10	20 +		29	3.62	2.27	.80	27	8.2	7	1	11	7	
Tipton	22.7	1.9	54	8 +	-14	20 +		28	3.13	1.83	.54	4		11	28	11	6	
Williamsburg	20.6	-.1	51	7 +	-15	30		31	2.24	1.04	.70	28		8	28 +	9	4	
DIVISION	21.7	.8							3.05	1.77								
SOUTHWEST																		
Atlantic 1 E	17.4	-3.9	49	7	-15	29		31	2.78	1.83	.74	28	11.3	8	28 +	11	3	
Atlantic AP CAA	16.5	-4.8	48	7	-14	21 +		31	2.90	1.95	.94	27	12.7	11	28	13	4	
Bedford 1 N	19.1	-4.2	52	7	-10	30		31	3.17E	2.17	.70	15		10	28	9		
Clarinda	19.4	-3.6	50	7	-15	22		30	2.80	1.69	.48	4		9	28 +	13	4	
Corning 2 E	18.2	-4.3	48	7 +				31	1.74	.81			19.0	26	28	12		
Council Bluffs 5 NE	17.8		47	7	-10	22 +		31	3.93		1.38	3	16.2	12	28 +	10		
Glenwood 2 E	17.9	-5.5	49	7	-15	30		30	3.44	2.70	1.65	3	13.0	10	28 +	6	4	1
Greenfield	17.4	-3.7	46	8	-12	30		30	2.90	1.93	1.00	27	16.0	9	28	8	5	1
Norwich 2 E SCS Exp	18.2	-4.6	45	8	-12	30		30	2.95	2.10	1.00	3	13.5	7	28 +	12	4	1
Oakland 2 E	17.6	-5.0	47	7	-14	30		31	3.73	2.88	1.57	27				12	4	1
Red Oak	18.4	-4.5	47	7	-12	29 +		30	3.06	2.21	.99	3	13.7	7	27 +	11	4	
Shenandoah	19.2	-4.6	50	7	-9	22 +		30	3.52	2.67	1.22	3		8	28 +	11	5	1
DIVISION	18.1	-4.6							3.06	2.20								
SOUTH CENTRAL																		
Afton	17.3	-4.6	52	7	-15	22 +		31	4.47	3.52	1.38	10				13		1
Albia	21.3	-1.8	54	7	-12	30		28	3.34	2.23	.69	28	9.2	5	21 +	15		
Centerville	22.3	-1.8	55	7	-16	30		29	3.48	2.37	.71	27				12		
Chariton 3 E	20.6	-2.3	54	7	-20	22		29	2.64E	1.59	.95	27	20.0	12	27 +	7	4	
Creston	18.3	-3.0	48	7	-13	30		30						8	28 +	9	5	
Indianola	20.0	-2.5	53	7	-16	22		30	3.18	2.05	.89	27	21.5			9	8	
Knockville	22.2M	-.8	56	7	-13	29		29	3.22	2.00	.83	27	19.5	10	21 +	11	6	
Lamoni	20.4	-3.0	52	7 +	-13	30		30	3.80	2.77	.68	27	11.5	7	21 +	15	6	
Millerton	20.5	-3.1	55	7	-12	30		30	4.38	3.34	1.28	27	11.7	7	28 +	13	5	1
Mount Ayr 2 N	21.1M	-2.4							3.76	2.75						9		
Osceola	19.9	-2.8	53	7	-11	30		31	3.31	2.31	.76	27	18.6	8	21 +	14	7	
Tingley	18.8	-3.9	55	7	-13	30		31	3.21	2.26				7	28 +	12		
Winterset	19.9	-2.7	52	7	-10	22 +		31	5.20	4.27	.95	27		14	28	10	8	
DIVISION	20.2	-2.7							3.67	2.63								
SOUTHEAST																		
Bloomfield 2 N	21.5	-2.7	56	7	-19	30		31	3.55	2.25	.85	27		8	29 +	11	7	
Burlington WB Airport	23.7	-.2	55	7 +	-7	30		28	2.46	.71	.50	27	6.7	4	18 +	14	5	
Columbus Junction	23.4	.1	57	7	-16	20		30	4.22	2.87	.90	19	8.0	6	1 +	9	8	
Fairfield	22.4	-.7	54	7 +	-12	30		29	3.43	2.23	.82	27	11.4	5	18 +	9	7	
Keokuk L & D 19	26.9	.3	57	15	-3	30		26	3.78	2.26	.82	28	7.8	5	19	15	6	
Keokuk WB City	26.4	-.2	63	15	-4	29 +		27	3.27	1.75	.65	27	6.0	3	19 +	15	5	
Keosauqua State Park	24.1	.1	60	7	-12	30		28	3.82	2.45	.82	27	9.3	5	28 +	10	7	
Mount Pleasant	23.3	-.9	58	7	-12	30		31	3.10	1.76	.84	15	9.5	5	19 +	8	4	
Oskaloosa	21.2	-1.1	56	7	-14	22 +		29	3.38	2.18	.83	28	19.0	12	28 +	10	6	
Ottumwa 1 WSW	23.1	-1.1	58	7	-17	20		31	3.09	1.94	.62	27	11.9	8	28	12	6	
Ottumwa AP CAA	21.0	-3.2	55	7	-15	30		28	3.12	1.97	1.54	27	15.4	11	28 +	12	3	1
Sigourney	21.8	-.6	57	7	-14	30		30	3.11	1.92	1.02	28	19.2	15	28	13	6	1
Washington	22.7	0.0	57	7	-15	30		30	3.43	2.11	.80	27		9	28 +	10	6	
DIVISION	23.2	-.5							3.37	2.04								
STATE	18.1	-1.6							2.72	1.71								

DAILY PRECIPITATION

IOWA
JANUARY 1949

Table 3

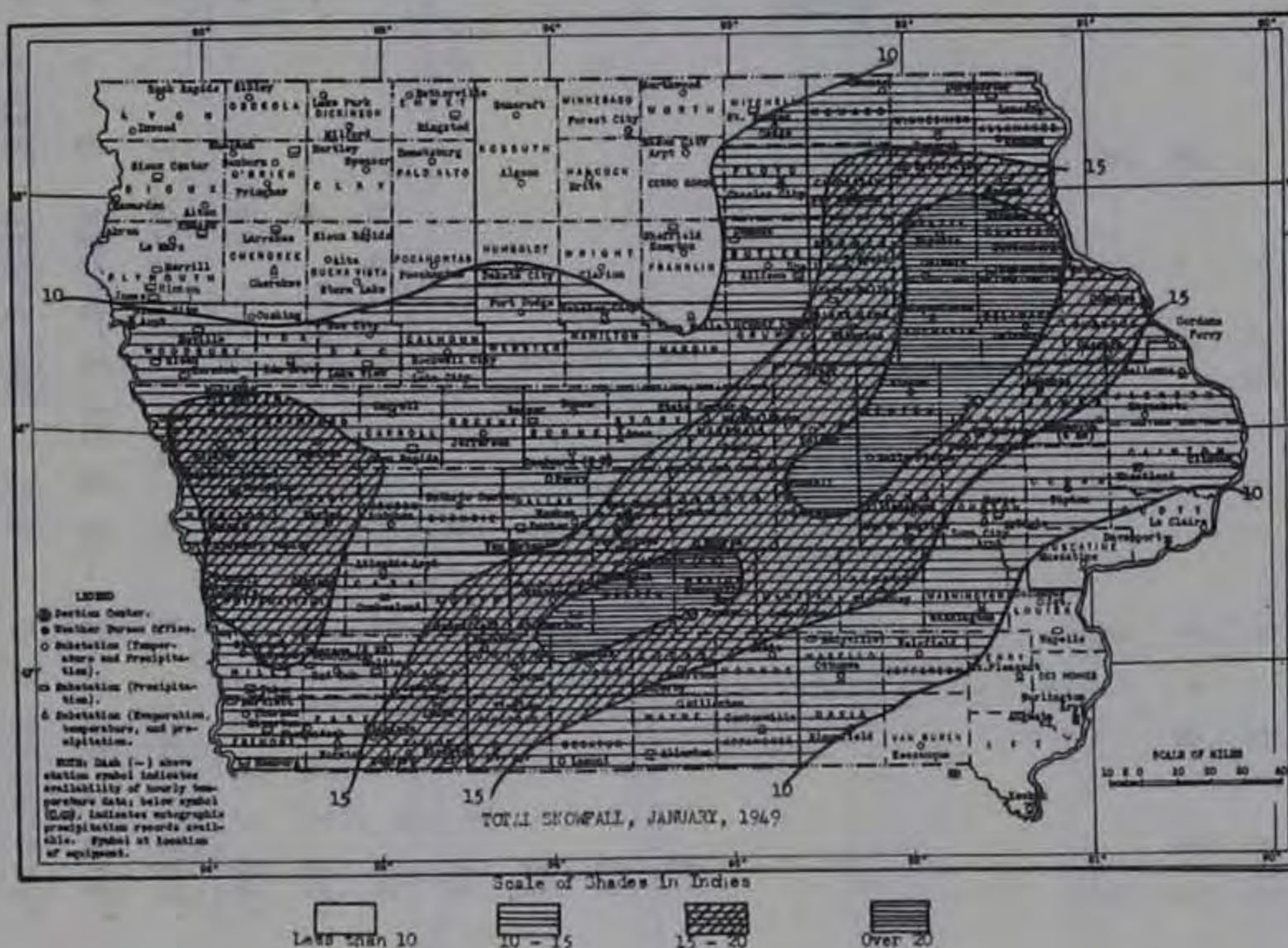
Station	Day of Month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Afton	T		.30	.30	T				T	1.38	.02				.48	T		*	.27	.12	.28		.26		.20		.73	.15			T	4.47
Akron			* .75							.50											.10	.10		.13				.04			T	1.61
Albia		T	T	.63	.01	T				.37	.21	.02				.48	T			.30		.06	.06	.12	.05	.19	.09			T	3.34	
Algona		.03	.19	.61	T					.03										.20		*	1.15		.10		.22			T	2.45	
Allerton	r		.20	.02					*	*	.69									.15		*	.25	.10			.40	.40	T	2.18		
Allison			*	.58																T	.15		.04	.45	.20		.40	.40	T	2.24		
Alta		.06		.76	T						.03	T										.10E	.10E	.20E			.10E	.10E	T	.85E		
Alton			.25								.10E										.10E	.10E	T	.20E			.10E	.10E	T	2.16		
Ames 3 SW	s	T	T	.27	.30	T	T			T	.09	.04	T		.30	.02		.11	.01	T	.03	.32	T		.05	.58	.09			T	3.13	
Anamosa 1 NW			.03	T	.44	T				.16	T				.36			.24	.14	T	.18	.23	T		.05	.97	.33			T	2.78	
Atlantic 1 E			T	.53	T	T				.06	.19	T			.13	.24	T	.04		.04	.08	T	.41	.18		.18	.74			T	2.90	
Atlantic AP CAA	x //	.01	.58	T	T	T			.08	.11	.02	T		T	.38	T		.02		.02	.02	.01	.61	T	T	.94	.09			T	3.30	
Audubon 2 S		T	.94	T	T	T			T	.19	.03	T			.42	.01	T		T		.02	T	.08	.51	T		.68	.42			T	3.08
Augusta			T	.12	T					.45	.05	.20			.40	.40							1.00							T	1.60E	
Bancroft			.40E	.20E																										T	3.59	
Bartlett 3 E		.08	1.30						.13	.25					.25						.08		.55				.85	.10			T	3.17E
Bnavor	r		.32	.23					.11	.11					.32																T	3.05
Bedford 1 N			.65						.33	.70					.45						.10E	.44					.25				T	3.10
Belle Plaine	T	.01	.05	.62	T	T			T	.11	.05				.30	.01	T	.30	.06	.09	.15	.21	.01	.04	.04	.12	.60	.50		.01	3.05	
Belleuve Lock & Dam	x	.04	T	.19	.28	T				.07	T			T	.03	.59	T	.28		.05	.02	T	.29	T		.12	.14	1.00		T	3.10	
Blockton 2 S			.22	.37					T	.66	.08				.57						*	.32	.23		.05	.60	.05				T	3.34
Bloomfield 2 N			.03	.13	T	T			.36	.30	.25				.48					.24	.08		.35	T	T	.85	.48			T	3.55	
Boone	T	T	.55	.35	T	T			T	.14	.05	T			.35	.03		.10		.03	.02		.57	T	T	.79	.18		.04	3.20		
Britt		.12	.10	.93						.10					.10						.12	T	.82	.02		.24	.60			.12	3.17	
Burlington WB Apt.	s //	T	.06	.07	T				.29	.12	.26	T		.01	.46	T	T	.37	T	T	T	T	.21	.01	.06	.01	.50	.03			T	2.46
Carroll		T		.52	T					.12					.11				.08	T		.44			*	.80				T	2.07	
Cascade	s		.08	.38	T					.10					.35			*	.37	T		.02	.46			.59	.10			.02	2.43	
Castana 4 E			1.16	T	T					.08	T				T							.02	.46			.59	.10			T	3.18	
Cedar Falls		.03	.05	.47	T	T			T	.04	T				.35			.32	.10	.16	.16	.01	.24	.02	.02	.03	.14	1.03	.01	T	3.17	
Cedar Rapids No. 1	T	.02	T	.31	.27	T				.16	.06	T			.01	.33	T	T	.39	T	.15	.01	T	.23	.02	.03	.14	1.03	.01	T	3.28	
Cedar Rapids No. 2		.02	.01	.44	.28	T				.20	.05	T			.02	.32	T	T	.42		.18	T	T	.25	.02	.03	.16	.88			T	3.48
Centerville	s		.44						.34	.16	.18				.41			*	.33	.03	.02	.33			.19	.71	.34				T	2.64E
Chariton 3 E			.38						.30	T					.43	T		.20	T	T	.20E	.18			T	.95					T	2.91
Charles City	s	.01	.03	.42	.52	T			T	T	T				.31	T	T	.11		.05	.07	.57	T	T	T	.74	.06		.02	2.91		
Cherokee	s		T	.69	.10	T				T	T				T	T						.06	.29	.01	.13	.22			.04	1.55		
Clarinda		.05		.48	T				.08	.19					.10	.26			.10		.16	.30	.20	.02	T	.34	.42		T	2.60		
Clarion	T		.15	.55	T					.18					.18			T	.03	T	T	.70	T	T	.18	.12			T	1.91		
Clinton No. 1			T	.07	.51	T				.25	T				.57			.30	.15	T	T	.38			.07	T	.45	.47			T	3.22
Clinton No. 2		.01	.02	.15	.27	T				.23	T				.06	.37			.43		T	T	.35	.03	.06	T	.97				T	2.95
Columbus Junction			.33						T	.31	.08				.79			.38	.90			.37			.35	.03	.06	T			T	4.22
Coon Rapids	r		.29	.08					.04	.06	.05				.17			.04	.01			.02	.42	.03		.05	.84	.06			T	2.16
Corning 2 E		T	.02	.13					.05	.06	.13	T			.27			.20			.05	.05	.17		T		.61				T	3.86
Council Bluffs 6 NE	r	.02	1.60						.06	.15				.02	.09			.09		.11	.09	*	.35			.93				T	3.93	
Council Bluffs 5 NE		.03	1.38	.04						.31	.02				.14					.02	T	.95	*	1.04			.42	.78			T	2.74
Cresco			.80												.52					.50E	.25	T	.22		.03E		.42	.78			T	2.74
Creston			.49												.09							.24	.22								T	1.88
Cushing 3 NE	.03	T	.79	.04	T				T	.06	.04				T					.01	.08	T	.49			.43	.26			.02	1.88	
Dakota City	s		.23	.55	T					.06	.06				.12					.02	T	.70			.43	.26					T	2.37
Davenport WB City	s	T	.19	.24	T				.30	.07	.02				.50	T	T	.57	T	T	T	.47		.07	T	1.18	.02			T	3.65	
Decorah Dry Run		.10	T	.34						.30	.10	T			.30	.10	T	.04	.13		.07	.35			.10	.40			.02	1.95		
Decorah 2 S		.06		.23	.12	T				.38					.34			.19		.19	.11	.02	.32	T	.01	.40			.04	3.38		
Delaware 2 W			.36	.24	T					.21					.34			.18		.10		.14				.30	1.45			T	3.11	
Denison 2 S										.21					.21						.04	.12				.11	.62				T	2.04
Derby	r		.24						.22	.14					.45			.21		.04	.12		.28			.11	.62			.01	3.12	
Des Moines WB Apt.	s	T	T	.36	.02	T	T		.09	.18	.02	T			.39	T	T	.31	.19	.02	T	.22	T	T	.14	.07				T	3.05	
Des Moines WB City	s	T	T	.34	.06	T	T		.07	.16	T				.44	T	T	.36	.20	.02	T	.20	T	T	.10	.08					T	2.38
Dexter	r		.38	.12						.25		.20			.25			.10		.06	.01	.30			.80	.06					T	1.87
Dorchester			.20	T						.32	.05				.12	.08		.17		.17		.26	.02	.01	.05	.15	.50				T	1.87
Dubuque Lock & Dam 11		.05		.09	.25	T				.04					.32	.01		.36		.15	T	T	.21	.01	.05	.13	1.10			T	2.77	
Dubuque WB City	s	T	.06	.04	.27	.01	T		.02	.04	T				.40	T	T	.36	T	.09	.20	T	.06	T	1.34	.04				T	2.93	
Dumont 4 NW		.02	.08	.58						.26					.26			.05	.05	T	.03	.53			.38	.10					T	2.08
Dunbar 2 NE	T		.04	.22						.02	T	T			.48	.01		.25	.13		.14	.15			.53	.21					T	2.18
Eddyville			T	.53						.40	.17				T	.45			.26	T	.21	T	T	T	.18	.93					T	3.15
Elkader		.02	.08	.60	T					.32	T	T			.32	T	T	.15	.10	T	.11	.28	T	T	.26	.75				T	2.67	
Emerson 5 NE	.04		.94						T	.15	T	T			.41	T	T	.08	T	.07	.07	.02	.56	T	T	.69	.33			T	3.29	
Emmetsburg																																

DAILY PRECIPITATION

IOWA
JANUARY 1949

Table 3-Continued

Station	Day of Month																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Norwich 2 E SCS	x	.04	1.00	.01				.04	.26						.51		.06		.05	.03	T	.42										.02	2.95		
Oakland 2 E		.01	.90	.28					.22	.03					.31		.03		.01	.02	T	.52										1.57	3.73		
Oasis	r	.02	.10	.51	.02			.20	.10						.59	.01	.40	.07		.04		.30			.13						1.07	3.37			
Celwein															.39		.22	.08	T			.27	.17								.36	.63			
Osawa		T	T	1.42	T				.05	.04	.01				T	T			.10	.12		.27									.90	.71	.04	3.83E	
Osage		.02	.76			T									.18		.05		.02		.24											.45	1.72		
Osceola	T	.04	.06	.30					.44	T				T	.40		.28	.11	.02	.32		.25	.05	.04							.76	.24	T	3.31	
Oskaloosa					T	T			.31	.13					T	.53	T			.18		.24									.34	.83	T	3.38	
Ottumwa 1 WSW	x							.03	.35	.13					.35		.27	.09	T	.05		.32			.16	T				.62	.52		3.09		
Ottumwa AP CAA		T	T	.15	.02			.22	.09	.03				T	.30	T	.25		.04		.23	T	.11	T	.11	T	1.54	.13					T	3.12	
Ottumwa								.32	.12		.07				.02			.45		.03		.32	.08	T							.31	1.12		2.97	
Perry 2 SE	T	T	.12	.40				.10	.06						.23	T	.02	.18	.02	.04		.37	.01	T						.28	.55		2.38		
Prisagar		.02			.21																	.50										.16	.03	.94	
Red Oak		.07	.99		T			.07	.21	T					.45	T	.07	.03	.01	T	.49									.65	.02		3.06		
Reussen	r		.74	.01													.07				.39										.08		.02	.02	1.33
Riverton		.07	1.36					.09							.21		.04	.10			.49						*				.71				
Rock Rapids			.32	.39	T										T	T	.16	.04	T	.28	T										T		T	1.19	
Rockwell City	x	T	.01	.09	.45	T			.03	.04	T				.17	T	T	T	.01	.01	.01	.73	T	T						.38	.56		T	2.49	
Sac City	T	.03	.48	.08	T				.02	.08					.03	T	T	T		.02	T	.71	T	T						.49	.21	.02	2.15		
Saint Charles	r		.40	.05				.10	.20						.28		.33	.02	.24	.06	.25			.03						1.04	.08		3.08		
Sanborn	T	.02	.16	.36	T						.03					T		.07	.22	T	.28	.27									.12		.08	1.61	
Sheffield	r		.71	.34											.15	T	T	T	T	.05	.01	.65								.30	.05		2.20		
Sheldon	T	T	.67	.11	.02	T					.04						T	T	T	.10	.05	.30	T							.02	.10	T	T	1.42	
Shell Rock	r		*	.50											.25	*	*	*	.35	.08	.09	*	*	*	*		.40			.57	.03		2.25		
Shenandoah	.07		1.22						.30	.05					.50		.10	.05	.03	T	.38	T								.75	.07		3.52		
Sibley	T	T	.40	.20											T	T		.02	.01	T	.30	T								.10	.10		T	1.03	
Sigourney		T	T	.20	.06	T			.31	.04	T				.36		.26	.04	.13		.01	.31	.13	.03	.25	1.02				.03	.01		3.11		
Sioux Center	r		.73	.04	*	*	*	*		.18								.04			.02	.18								.03	.01		1.23		
Sioux City 8 N			1.13						.08	.15										.10		.30								.08			1.84		
Sioux City WB Apt.	z	T	1.09						.07	.01					T	T			T	.09	T	.52	.01							.57	.02	.02	2.44		
Sioux City 4 N			1.14						.05	T										.14		.30	T							.27			1.90		
Sioux Rapids		.07	.60	T	.04					T										T	.15	T								.05	T		.96		
Sloan			2.00																	.03	T	.45								.45					
Soldier	r		1.30						.07	.04	.03				.01	.03	T	T		.05	T	.45	.46	.01						.53	.10		2.52		
Spencer 1 N		.15	T	.44	.15	T														.25	.12	.45	.46	.01						T		.01	.01	1.73	
Spillville	r		.05	.26	.07	.02														.36	.16	.28	.02							.54	.18		T	2.77	
State Center	T		.54	.32					.07	.03	T									.03	.12									.87	.03		T	2.60	
Strawberry Point	r		.02	.26	.28				.10	.45										.21	.02	.12								.32			T	3.21	
Tingley	T	T	*	.69																*	.42	T	.18							.38	.20		T	3.13	
Tipton			.22	.54	T				.32	T										.52	.06	.31								.16	.03	.07	.45	T	3.16
Toledo		T	.02	.38					.11	.05										.35	.02	.22	.20	T	T					.94	.48		T	2.37	
Tracy			.41	.18					.14	.05										.18	.17	.21	T	T	T	T	T			1.40	.56	T	.03	3.07	
Traer	r		.05	.50					.04	.06										.34	.08	.14	.24							*	1.84		T	3.50	
Tripoli			.65		T				.07	.18	T								.10	.16	T	.32								.30	.53		T	2.41	
Van Meter			.76						.21	.07									.12	.32	T	.45								.45	.01		T	3.10	
Wallin 2 WNW	r		.01	.12	.17				.29	T									.44	.08		.38								.16	1.08	.03		3.17	
Wapello			T	.35					.08	.22									.40	.08		.08								.80	.40			3.43	
Washington	x			.45	.09	T			.03	T									.35	.26		.13								.08	.14		T	2.78	
Waterloo		.03		.45	.09	T			.03	T									.26	.20		.22	T	T	T	T	T			.26	.80		T	2.54	
Waukeese			.12	.45					.25	.04										.20	T	.20								.09	.32			2.35E	
Waukon	T	T	.82		T										.38		.05E	.10E	.15E		.10E	.34								.81	.59	.13		2.69	
Wehster City	x		.20	.58					T	.05					.26				*	.05	.02	.81								.09	.32			3.09	
Wheatland	r		.11	.19					.16	.04					.67				.19			.32	.04	.10						.38	.70			2.24	
Williamsburg		T	.04	.32					.11	T									.90	.60	T	.70	.20							.95	.20		T	5.20	
Winterset			.35	.50					.37	T					.43							.20									.45	.17		T	1.97
Woodward 7 N			.10	.45	T				.10	.04					.20	.01			T	.05	T	.40													



HOURLY PRECIPITATION

IOWA
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Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
-1st-																											
Charles City																								.01	.01		
Council Bluffs 6 NE																									.01	.02	
Hamburg												.01	.07	.02											.01	.10	
Iowa City Ralston Creek 4																									.01	.01	
Lamoni																									.01	.03	
Lenox																									.01	.02	
Mason City AP CAA	6							*	*	*	*	*									*	*	*	*	.01	.01	
Morse																									.01	.04	
Norwich 2 E SCS Exp. Farm																									.01	.02	
Oasis												.01	.01												.01	.02	
Rockwell City																									.05	.01	
Spencer 1 N	6																								.05	.01	
-2d-																											
Bellevue Lock & Dam 12				.01	.03																				.01	.04	
Cascade		.03	.01	.01	.01	.01																			.01	.08	
Charles City		.01	.02																						.01	.03	
Iowa City AP CAA	8	.01																							.01	.01	
Iowa City Ralston Creek 4				.01																					.01	.04	
Marshalltown No. 2													.02	.01	.01										.01	.04	
Mason City AP CAA	6	.03	*	*	*	*	*		.01	*	*	*	*	*											.01	.01	
Monona																									.01	.01	
Morse				.01																					.01	.01	
Spencer 1 N	6	.10																							.05	.01	
Spillville			.02	.03																					.05	.01	
Strawberry Point								.02																	.02	.02	
-3d-																											
Allerton								.01	.02				.02	.04	.02		.01	.01	.01	.08			.01		.20		
Ames 3 SW																				.24	.02	.02			.41		
Atlantic AP CAA	//													.01	.24	.01	.07	.27	.01						.61		
Beaver															.03	.06	.01		.18	.03	.01				.32		
Bellevue Lock & Dam 12																									.02		
Burlington WB Airport	//																					.02	.01		.06		
Cascade																						.02	.08	.06	.16		
Centerville																						.44			.44		
Charles City																						.21	.15		.42		
Cherokee																						*	*	*	*		
Coon Rapids														.02	.17	.13	.09	.28	.06			*	*	*	.29		
Council Bluffs 6 NE								.03	.19	.18	.07	.15	.13	.22	.11	.12	.28	.06		.02	.01	.01	.01	.01	1.60		
Derby														.04	.01	.01	.03	.11	.04						.24		
Des Moines WB Airport														.02	.03	.01	.01	.16	.12	.01					.36		
Des Moines WB City														.05	.04	.01	.01	.11	.08	.04					.34		
Dexter														.10	.09	.11	.08								.38		
Greenfield														.01	.01	.02	.07	.14							.25		
Grinnell																			.01	.10		.02			.13		
Hamburg							.01	.04	.18	.14	.14	.29	.04	.09	.15	.15	.02								1.25		
Hinton 5 WNW								.05	.20	.14	.15	.05	.04	.24	.17	.20	.10	.03							1.37		
Hornick									.11	.08	.12	.04	.07	.11	.21	.26	.14	.01	.01						1.16		
Iowa City AP CAA	6													*	*	*	*	*	*	.01	*	*	*	*	.10		
Iowa City Ralston Creek 1																						.07	.02	.01	.10		
Iowa City Ralston Creek 2																						.08	.02		.10		
Iowa City Ralston Creek 3												.01									.01	.01	.04	.03	.01	.11	
Iowa City Ralston Creek 4															.01				.01		.01	.04	.08	.01	.16		
Iowa City Ralston Creek 5																		.03			.02	.08	.02		.15		
Iowa Falls 1 N																		.05	.22	.06		.07	.23	.02	.65		
Keokuk WB City		.01	.02																			.03		.01	.09		
Knoxville															.02						.02		.07	.01	.04	.27	
Lamoni															.05	.02	.01	.02	.04	.05	.35					.54	
Larrabee															.12	.09	.05	.25	.05	.01						.59	
Lenox															.05	.02	.02									.50	
Marion 4 NE															*	*	*	*	*	*	*	*	*	*	*	*	
Marshalltown No. 2			.01	.01	.01										.05	.02	.02		.10	.26	.03					.51	
Mason City AP CAA	6														*	*	*	*	*	*	.32	*	*	*	*	*	
Missouri Valley									.21	.16	.18	.02	.20	.12	.19	.13	.24	.08	.01			.01	.12	.03		1.54	
Monona		.03													.01						.01	.01	.01	.01	.01	.01	.24
Morse																						.05	.03	.02		.13	
Morse 1 NE															.01	.01	.01					.09	.02	.04		.17	
Morse 4 SSW															.02	.02	.01	.01			.01	.01				.17	
Mount Ayr 2 N															.02	.02	.01				.01	.01				.56	
Mount Pleasant												.02		.08				.08	.14	.22		.02	.02			.11	
Moville									.02	.11	.13	.06	.02	.08	.21	.19	.30	.07				.05				1.17	
Muscatine 7 N																						.01	.03	.01		.05	
Muscatine 6 NW					.01				.01						.01							.03	.14	.01		.21	
North English																						*	*	*	*	*	
Norwich 2 E SCS Exp. Farm										.08	.04	.01	.07	.19	.03	.09	.34	.14	.01							1.00	
Oasis																						.06	.04			.10	
Ottumwa 1 WSW																		.02			.08					.10	
Ottumwa AP CAA	6		*	*	*	*	*	.01														*	*	*	*	*	
Remsen															.01	.09	.16	.23	.21	.03	.01					.74	
Rockwell City		.01	.03												.01	.01	.05	.05	.20			.01	.02			.38	
Saint Charles														.02	.05			.08	.10							.40	
Sheffield															.01	.13	.15				.01	.28	.12	.01		.71	
Shell Rock										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Sioux Center																										.73	
Sioux City WB Airport									.05	.12	.03	.02	.06	.08	.13	.31	.17	.12								1.09	
Soldier										.10	.13	.02	.10	.13	.23	.17	.23	.18				.01				1.30	
Spencer 1 N	6														*	*	*	*	*	*	.20	*	*	*	*	*	
Spillville																										.26	
Strawberry Point																						.06	.15	.05		.26	

HOURLY PRECIPITATION

IOWA
JANUARY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-10th-																									
Ames 3 SW	.02							.02	.01	.01					.02	.01	.01								.09
Atlantic AP CAA	//			.01				.01						.01	.04	.04	.02	.02							.15
Beaver		.06	.04	.01																					.11
Bellevue Lock & Dam 12		.02	.02	.01														.03	.03	.01					.05
Burlington WB Airport	//	.02	.01	.01	.01																				.12
Cascade		.03	.01																						.04
Centerville															*	*	*	*	*	*	*	*	*	*	*
Coon Rapids		.01														.01	.01	.01							.06
Council Bluffs 6 NE														.03	.07	.02				.01		.01	.01		.15
Dakota City																					.01	.01	.01		.03
Derby															.02	.03	.04	.03	.02						.14
Des Moines WB Airport		.03		.01											.01	.03	.06	.02	.01						.17
Des Moines WB City		.02														.04	.04	.04	.01		.01				.16
Dubuque WB City		.03	.01																						.04
Greenfield		.01												.04	.06	.07	.03	.02	.01						.24
Grinnell		.01	.01						.02		.01	.01													.06
Hamburg												.01		.06	.05	.07	.01								.20
Iowa City AP CAA	6	.16	*	*	*	*	*	.01																	.03
Iowa City Ralston Creek 2		.01	.01	.01																					.03
Iowa City Ralston Creek 3		.01	.01	.01																					.03
Iowa City Ralston Creek 4		.01	.02																					.01	.06
Iowa City Ralston Creek 5		.02	.03																						.05
Iowa Falls 1 N				*	*	*		.05																	.05
Keokuk WB City		.01	.01		.01	.02																			.05
Knoxville		.01																							.19
Lamoni														.05	.05	.05	.06	.06	.01		.02				.28
Lenox		.01												.04	.02	.05	.06	.04	.01						.23
Marshalltown No. 2		.01	.01							.02	.01	.01		.01	.07	.01	.01								.07
Missouri Valley						.01																			.12
Morse		.01	.02	.01																					.04
Morse 1 NE		.01	.01	.01																					.03
Morse 4 SSW		.01	.03	.02																					.06
Mount Ayr 2 N		.01	.01	.01											.04	.06	.05	.08	.03	.02	.01	.01	.01	.01	.06
Mount Pleasant		.02																							.03
Moville																					.01	.01	.01		.07
Muscatine 7 N		.04	.01		.01	.01																			.08
Muscatine 6 NW		.04	.02	.01	.01																				.24
Norwich 2 E SCS Exp. Farm		.02	.04	.03	.01									.05	.05	.08	.04	.01	.01						.10
Oasis																									*
Ottumwa 1 WSW		.02		.02	.01					.01						.02	.02	*	*	*	*	*	*	*	*
Ottumwa AP CAA	6	.23														*	*	*	*	.06	*	*	*	*	
Rockwell City																					.01		.01	.01	.03
Saint Charles															.02	.03	.05	.05	.04	.01					.20
Soldier				.01								.01			.01										.04
Traer		.02	.02			.02																			.06
Wallin 8 NE Red Oak		.01	.01									.01	.04	.06	.06	.02									.21
Washington		.02	.01		.01																		.02	.01	.16
Wheatland															.02	.04	.02								.08
Woodbine 5 SE																									
-11th-																									
Allerton		*	*	*	*	*	*	*	*	*	*	.69													.69
Ames 3 SW						.01		.02	.01			.01													.05
Burlington WB Airport	//					.01		.02	.04	.04	.04	.05	.05	.01											.26
Centerville						*	*	*	.41																.41
Coon Rapids				.01	.02	.02																			.05
Dakota City		.01	.01	.01																					.03
Des Moines WB Airport					.01	.01																			.02
Dexter		*	*	*	.20																				.20
Dubuque WB City												.06	.01	.01		.04	.12	.09	.05			.01			.39
Hinton 5 WNW		*	*	*	*	*	.06																		.06
Iowa City AP CAA	6			*	*	*		.02																	.03
Iowa City Ralston Creek 5		.02	.01																						.17
Keokuk WB City								.08	.07			.01	.01												.03
Knoxville		.01	.01	.01																					.12
Lamoni					.02	.04	.04	.02																	.03
Lenox												.01	.01	.01							.01				.04
Marshalltown No. 2			.01			.01	.01	.01																	.04
Missouri Valley					.01	.01	.01	.01																	.04
Mount Pleasant			.01	.01								.05	.04	.04	.02										.17
Moville				.01		.01						.02													.04
Ottumwa 1 WSW		*	*	*	*	*	*	*	*	*	*	*	*	*	*	.13									.23
Ottumwa AP CAA	6	.01	*	*	*	*	*	.01	*	*	*	*	*	.02											
Rockwell City		.01																							.01
Sioux Center		*	*	*	*	*	*	*	.18																.18
Sioux City WB Airport						.01																			.01
Soldier				.01	.01														.01						.03
Wallin 8 NE Red Oak			.02	.02	.01		.01	.01																	.07
Washington							.01																		.01
Webster City			.02	.02	.01																				.05
Wheatland		.02	.01	.01																					.04
Woodbine 5 SE		.01	.01																						.02
-12th-																									
Marion 4 NE		*	*	*	*	*	*	*	*	*	*	.74													.74
-13th-																									
Mount Pleasant																									.08
-14th-																									
Atlantic AP CAA	//																					.01	.01	.01	.02
Burlington WB Airport	//																					.01	.01	.01	.01
Cascade																									.02
Council Bluffs 6 NE																						.01	.01	.01	.02
Derby																									.06
Keokuk WB City											.01	.02													.02
Marshalltown No. 2																					.01	.01			.02
Ottumwa 1 WSW																									

HOURLY PRECIPITATION

IOWA
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Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Traer															.02	.07	.04	.04	.07	.06	.02	.01	.01	.01	.35
Wallin 8 NE Red Oak													.08	.01	.03		.02	.03	.02	.01					.12
Washington														.04	.06	.04	.05	.01	.02	.06	.02	.03			.41
Webster City														.04	.04	.04	.03	.07	.02	.02	.03	.02			.05
Wheatland																									.31
-19th-																									
Bellevue Lock & Dam 12	.01	.01	.01																					.03	
Cascade	.01	.02																						.03	
Coon Rapids				.01																				.10	
Dexter				*	.10																			.03	
Grinnell	.01	.01	.01																					.05	
Iowa City AP CAA	6	.10																						.01	
Keokuk WB City		.02	.02	.01							.01														.05
Lamoni																									.01
Lenox			.01	.02			.01			.01															.03
Mason City AP CAA	6	.10																							.07
Muscatine 6 NW			.01	.02						.06															.01
Oasis				.01																					.02
Ottumwa AP CAA	6	.03													.01										.35
Rockwell City			.01	.01																					.02
Saint Charles		*	*	*	*	*	*	*	*	.35															.02
Shell Rock																									.07
Strawberry Point	.01	.01								.01	.03	.02	.01												
Washington																									
-20th-																									
Allerton															.01	.01				.01					.04
Ames 3 SW																									.05
Atlantic AP CAA	//										.04	.01													.03
Bellevue Lock & Dam 12																		.01	.01						.05
Centerville																		.01	.03	.01					.06
Charles City															.01		.01	.03	.01						.03
Cherokee											.02	.01													.04
Council Bluffs 6 NE																									.19
Derby													.01	.01							.03	.05	.05	.04	.20
Des Moines WB Airport													.01	.02	.01						.03	.07	.06		.06
Des Moines WB City													.01	.01	.01				.01			.01	.01		.07
Dexter																					.01	.03	.02	.01	.10
Greenfield																					.02	.01	.03	.04	.10
Grinnell										.01	.06	.01	.01	.01											.05
Hamburg																.01	.02	.03							.10
Hinton 5 WNW															.01	.02	.04	.03							.02
Hornick																					.01			.01	.05
Iowa City Ralston Creek 1																						.01	.01	.04	.07
Knoxville																						.01	.01	.04	.08
Lamoni											.03	.01					.01	.02	.01			.01	.01	.04	.23
Larrabee											.02	.03										.01	.07	.09	.30
Lenox														.04	.05	.01	.02	.07	.03	.04	.02	.01	.01	.01	.30
Marion 4 NE														.02	.01	.01				.01	.01	.01	.06	.06	.22
Marshalltown No. 2										.02	.04											.02	.02	.01	.06
Missouri Valley																						*	*	*	.04
Morse																						*	*	*	.05
Mount Ayr 2 N																	.01	.02	.01			.01			.05
Moville																									.07
Norwich 2 E SCS Exp. Farm										.05						.02	.03	.02							.02
Rensen																									.24
Rockwell City													.01								.01	.04	.10	.08	.06
Saint Charles																					.01			.05	.04
Shell Rock													.01	.01	.01		.01							.01	.09
Sioux Center																	.02	.01	.01			.01			.03
Sioux City WB Airport																	.01	.01	.01						.02
Soldier																						*	*	*	.08
Spencer 1 N	6																				.01	.01	.02	.04	.02
Strawberry Point																						*	*	*	.08
Traer																						*	*	*	*
Woodbine 5 SE																						*	*	*	*
-21st-																									
Ames 3 SW												.02													.02
Atlantic AP CAA	//			.01	.01																				.07
Bellevue Lock & Dam 12																									.18
Cascade			.01	.02	.04	.01	.05	.03	.02																.02
Centerville				.02																					.07
Charles City		.03	.03	.01																					.02
Coon Rapids			.01	.01																					.12
Derby		.03	.05	.04																					.02
Des Moines WB Airport		.01	.01																						.01
Des Moines WB City		.01	.01																						.09
Dexter		.01																							.09
Dubuque WB City					.01	.01	.04	.02	.01																.04
Grinnell		.04	.04	.01																					.10
Iowa City AP CAA	6																								.06
Iowa City Ralston Creek 1					.01	.01	.01	.01																	.08
Iowa City Ralston Creek 2					.01	.04	.01	.04																	.10
Iowa City Ralston Creek 3						.01	.01	.02	.01		.01														.03
Iowa City Ralston Creek 4						.02	.02	.02	.02																.14
Iowa City Ralston Creek 5					.01	.02	.03	.02	.02																.14
Iowa Falls 1 N					.01	.01	.01																		.02
Knoxville		.05	.04	.03	.01	.01																			.12
Lamoni		.04	.09	.01																					.06
Larrabee		.01	.01																						.10
Lenox		.08	.02		.01	.01				.01	.01														.08
Marshalltown No. 2		.02	.01																						.07
Mason City AP CAA	6									.02															.14
Monona														.02	.04	.03	.01								.03

HOURLY PRECIPITATION

IOWA
JANUARY 1949

Table 4-Continued

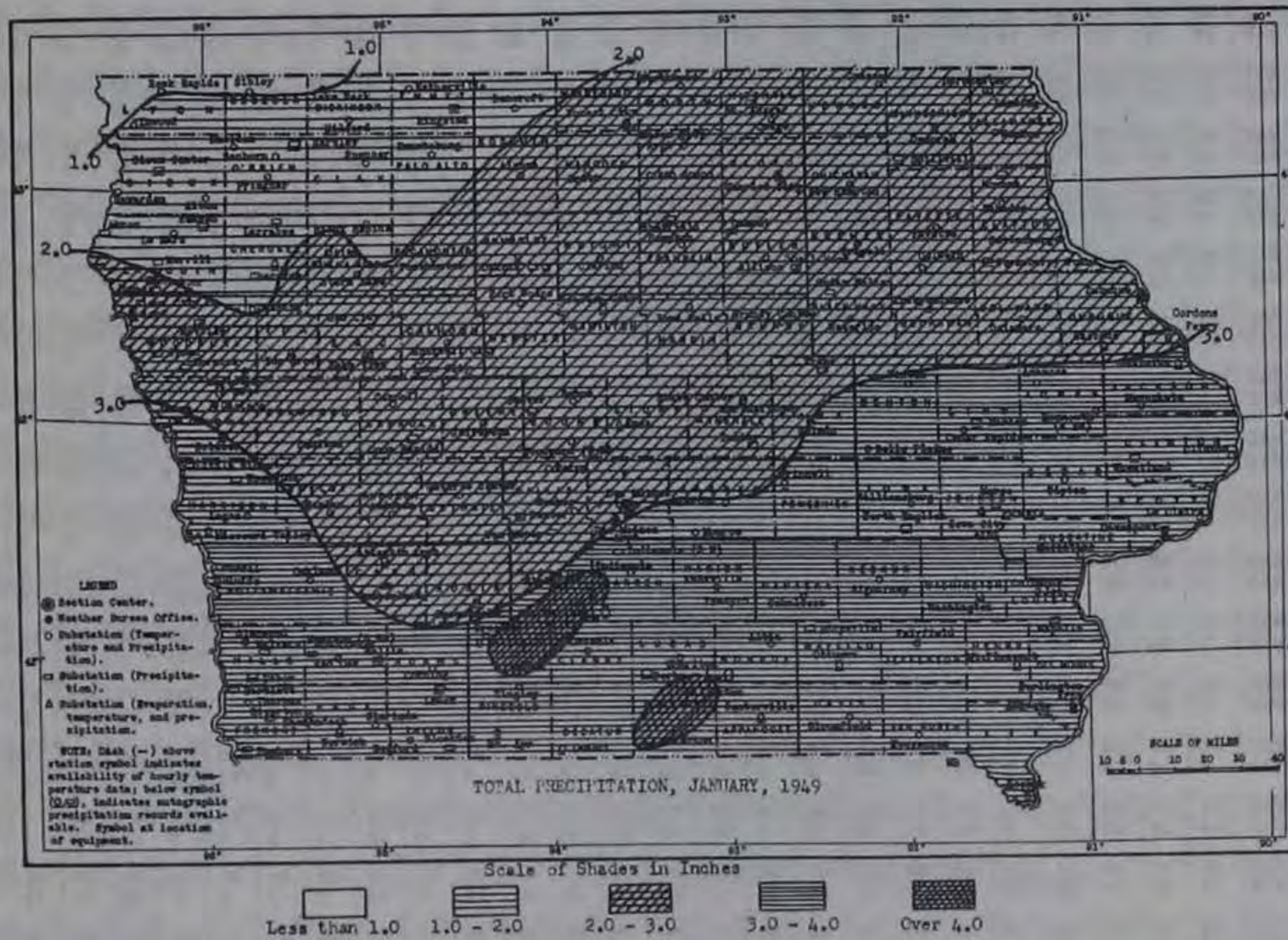
Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
Dakota City													.01		.01										.02		
Derby	.02	.03												.02	.02										.11		
Dubuque WB City												.01	.02												.06		
Grinnell																					.01				.02		
Iowa City AP CAA	6	*	*	*	*	*		.03						*	*	*	*	*	*		.06				.15		
Iowa City Ralston Creek 1			.02	.01	.02											.03	.02	.05							.07		
Iowa City Ralston Creek 2		.01	.01													.01	.01	.02			.01				.11		
Iowa City Ralston Creek 3					.01	.01											.03	.02			.02				.11		
Iowa City Ralston Creek 4		.01	.01		.02											.01	.02	.03			.01				.11		
Iowa City Ralston Creek 5		.02	.01		.01											.01	.02	.02			.02		.02	.04	.06		
Keokuk WB City		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.08							.08		
Knoxville	.05	.01	.01												.04	.01									.12		
Lamoni															.02	.01									.03		
Lenox																		.04	.02		.01				.07		
Morse																		.02	.05	.03					.10		
Morse 1 NE									.01	.02	.01				.02	.01			.01	.01	.01				.10		
Morse 4 SSW								.01						.03	.06										.10		
Mount Ayr 2 N			.02	.02	.03	.01										.02									.08		
Muscatine 7 N			.02		.03																				.10		
Muscatine 6 NW			.02		.03							.01		.01	.01	.02									.13		
Oasis													.01	.01	.01	.03	.01	.03		.01	.01	.01			.15		
Ottumwa 1 WSW		.05	*	.01	*	*	*		.02	.02					*	*	*	*	*		.03				.03		
Ottumwa AP CAA	6	*	*	*	*	*	*	.08							.03										.03		
Saint Charles															.01										.07		
Spencer 1 N	6														.02					.01	.02	.01	.01		.07		
Washington																.01	.02	.01			.01				.10		
Wheatland																.01	.04	.02			.03				.10		
-26th-																											
Bellevue Lock & Dam 12	//	.01	.01	.01									.01	.01		.01									.03		
Burlington WB Airport																									.01		
Cherokee																.02	.02								.05		
Coon Rapids																									.03		
Iowa City Ralston Creek 2		.03	.01	.01	.01	.02	.03																		.08		
Keokuk WB City																.02	.01								.03		
Larrabee																									*		
Missouri Valley		*	*	*	*	*	*	*	*	*	*	*	*	*	*	.40									.40		
Shell Rock																									*		
-27th-																											
Ames 3 SW	//	*	*	*	.06	.06	*	*	*	.01			.03	.04	.08	.06	.02	.08	.08	.06	.06	.03	*	*	.94		
Atlantic AP CAA	//	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.94		
Bellevue Lock & Dam 12	//	.02	.01	.01	.01	.01	.01	.01	.02	.09	.04	.01	.01	.04	.08	.08	.10	.09	.02	.05	.12	.10	.04	.04	.02		
Burlington WB Airport	//				.01	.01	.01	.01	.01	.02	.01	.01	.01	.04	.05	.05	.05	.06	.05	.04	.02	.02	.02	.01	.01		
Cascade																									1.07		
Centerville				.01	.04	.07	.04	.03	.02	.01	.03	.07	.10	.08	.02	.05	.05	.06	.07	.08	.13	.09	.07	.05	.03		
Charles City																.05	.05	.06	.06	.02	.04	.03	.05	.05	.31		
Cherokee																.01	.04	.06	.06	.02	.04	.03	.05	.05	.84		
Coon Rapids																.07	.08	.07	.08	.07	.10	.09	.03	.02	.83		
Council Bluffs 6 NE		.02	.13	.07	.02				.01		.04	.04	.07	.08	.07	.05	.07	.12	.05	.01					.75		
Dakota City																.01	.04	.04	.09	.08	.09	.12	.11	.08	.01		
Derby			.03	.01	.03	.09	.07	.02	.02	.01	.01	.04	.11	.07	.01	.02	.04	.02	.01	.02	.01	.02	.01	.02	1.24		
Des Moines WB Airport		.01	.08	.10	.11	.13	.07	.03	.01		.01	.04	.10	.08	.07	.06	.05	.09	.06	.02	.02	.01	.02	.02	1.10		
Des Moines WB City			.01	.04	.12	.10	.09	.02	.02	.01	.04	.05	.06	.02	.02	.03	.05	.06	.09	.10	.05	.05	.04	.03	.80		
Dexter			.05	.06		.01	.06	.02	.01	.03	.04	.03	.10	.08	.02	.06	.04	.07	.04	.04	.05				1.34		
Dubuque WB City							.07	.06	.09	.02	.01	.02	.04	.05	.08	.11	.07	.12	.12	.15	.22	.07	.04	.95			
Greenfield		.06	.10	.04	.04	.02	.03	.02	.01	.02	.02	.10	.10	.08	.06	.05	.05	.04	.03	.03	.04	.02	.03	.01	1.26		
Grinnell		.01	.01	.06	.03	.09	.06	.05	.04	.02	.02	.04	.09	.09	.09	.06	.05	.06	.07	.14	.15	.02	.03	.01	.99		
Hamburg	.02	.09	.05			.01	.04	.04	.06	.08	.08	.07	.09	.08	.04	.06	.04	.06	.02	.02	.02			.18			
Hinton 5 WNW																.03	.02	.03	.09	.08	.05	.01	.02	.02	.41		
Hornick																.04	.04	.02	.03	.09	.08	.05	.01	.02	.02		
Ida Grove 4 S				.02		.01	.03	.02			.01	.02	.02	.08	.09	.13	.17	.15	.18	.09	.09	.04	.02	.02	1.19		
Iowa City AP CAA	6	*	*	*	*	*	.07	*	*	*	*	*	*	.54	*	*	*	*	.34	*	*	*	*	*	*		
Iowa City Ralston Creek 1		.01	.02		.07	.02	.06	.11	.03	.01	.02	.06	.03	.05	.06	.01	.02	.01	.01	.12	.05	.06	.02	.85			
Iowa City Ralston Creek 2					.08	.04	.06	.07	.05	.02	.01	.05	.02	.05	.04	.02	.01	.01	.10	.03	.02	.02	.01	.68			
Iowa City Ralston Creek 3				.02	.05	.01	.08	.12	.03	.01	.01	.08	.03	.04	.06	.01	.01	.01	.01	.09	.03	.01	.01	.01			
Iowa City Ralston Creek 4					.07	.03	.05	.12	.04	.01	.01	.08	.03	.06	.08	.02	.01	.02	.02	.17	.10	.10	.02	.01	1.04		
Iowa City Ralston Creek 5					.07	.03	.05	.13	.04			.03	.07	.03	.05	.07	.03	.01	.04	.15	.10	.07	.02	.01	1.00		
Iowa Falls 1 N																*	*	*	*	*	*	*	*	.58			
Keokuk WB City					.07	.04							.02	.10	.12	.02	.01	.01	.10	.07	.03	.02	.03	.01	.66		
Knoxville		.07	.02	.06	.06	.12	.08					.03	.07	.09	.11	.04	.02	.03	.01	.09	.06	.03	.01	.01	1.00		
Lamoni		.03	.01	.01	.09	.13	.05						.02	.08	.10	.02	.01	.04	.09	.05	.01	.02	.06	.02	.84		
Larrabee																.02	.04	.01	.02	.04	.01	.03	.02	.01	.02		
Lenox		.01	.07	.09	.08	.05	.02	.01	.01	.01	.04	.06	.08	.06	.04	.12	.05	.04	.05	.06	.02	.06	.03	.02	.97		
Marion 4 NE	.02	.01	.01	.01	.02	.02	.06	.04	.03	.05	.01	.01	.01	.08	.08	.03	.05	.05	.06	.10	.09	.06	.03	.02	.95		
Marshalltown No. 2			.02	.10	.06	.03	.01	.01				.03	.06	.14	.22	.23	.06	.08	.08	.09	.05	.03	.01	.01	1.32		
Mason City AP CAA	6																			.25	*	*	*	*	*		
Monona																.05	.03	.06	.04	.13	.17	.10	.06	.02	.70		
Morse					.06	.02	.05	.10	.05	.03	.01	.05	.03	.03	.08	.02	.02	.01	.01	.11	.04	.03	.02	.02	.77		
Morse 1 NE					.06	.02	.04	.08	.03	.03	.01	.02	.06	.04	.05	.04	.01	.01	.10	.03	.01				.64		
Morse 4 SSW			.05	.04	.01	.08	.12			.02	.03	.07	.06	.06	.08	.02	.03	.09	.09	.11	.07				1.03		
Mount Ayr 2 N			.07	.06	.06	.01	.01	.06	.03	.01	.06	.03	.09	.06	.03	.07	.07	.07	.02	.01	.03	.04			.79		
Mount Pleasant				.01	.03	.05	.11	.06		.04	.01	.05	.09	.09	.08	.04	.04	.10	.09	.02	.02	.03	.01	.01	.98		
Moville					.02																						

HOURLY PRECIPITATION

IOWA
JANUARY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Charles City	.03	.03																						.06	
Cherokee				.01																				.01	
Coon Rapids		.01	.04		.01																			.06	
Dakota City	.02																							.02	
Des Moines WB Airport	.01	.01	.01	.02	.01			.01																.07	
Des Moines WB City	.01	.02	.02	.01	.01	.01																		.08	
Dexter		.02	.03	.01																				.06	
Dubuque WB City	.04																							.04	
Grinnell	.01	.01																						.02	
Hamburg	.02	.01	.01																					.04	
Hornick	.01	.02																						.03	
Ida Grove 4 S	.01																							.01	
Iowa City AP CAA	6	.37	*	*	*	*	*	.01	*	*	*	.01	.01	*	.01									.04	
Keokuk WB City								.01	.01			.01	.01											.08	
Knoxville	.03								.04	.01														.02	
Larrabee	.01				.01																			.03	
Lenox	.01	.01	.01					.01																.02	
Mason City AP CAA	6	.15	*	*	*	*	*	.01																1.15	
Missouri Valley		*	*	*	*	*	*		1.15															.02	
Mount Pleasant	.01	.01																						.02	
Moville	.01	.01																						1.09	
Muscatine 7 N	*	*						*	*	*		*	*	1.09										.04	
Muscatine 6 NW			.01							.01	.02													.04	
Oasis	.01		.01	.01	.01																			.04	
Ottumwa AP CAA	6	.98	*	*	*	*	*	.09	*	*	*	*	*		.04									.02	
Rockwell City					.01	.01																		.08	
Saint Charles	.02		.01	.01	.01	.01	.01	.01																.05	
Sheffield	.02	.01	.02																					.03	
Shell Rock	.03																							.01	
Sioux Center		.01																						.02	
Sioux City WB Airport	.01	.01																						.10	
Soldier		.01	.02										.01	.01	.04	.01								.07	
Spillville	.03	.03	.01																					.03	
Strawberry Point	.01	.01	.01																					.01	
Wallin 8 NE Red Oak	.01																							.01	
Washington		.01																						.06	
Webster City		.01	.02	.01	.01	.01																			
-30th-																									
Cherokee																								.01	
Hornick																								*	
Larrabee																					.01	*	*	*	
Remsen																					.01	*	*	.02	
Sioux City WB Airport																					.01	.01	.01	.02	
Spencer 1 N	6																				*	*	*		
-31st-																									
Beaver																									
Cascade																						.01	.01	.02	
Charles City																								.04	
Cherokee		.01	.01			.01								.01	.01									.06	
Des Moines WB Airport	*	*	*	*	*	.06																		.05	
Hornick	.02	.01	.02																					.03	
Ida Grove 4 S	.01	.01	.01																					.03	
Larrabee																								.03	
Marion 4 NE																								.03	
Mason City AP CAA	6								*	*	*	*	*	.01	*	*	*	*	*	.01				.03	
Moville			.02	.01																				.02	
North English																								.02	
Remsen		.01	.01																					.02	
Sioux City WB Airport		.01		.01																				.02	
Spencer 1 N	6	.01	*	*	*	*	*	.01																.03	
Traer														.02	.01										



DAILY TEMPERATURES

IOWA
JANUARY 1949

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Afton	MAX MIN	24 3	37 16	40 25	45 18	23 5	43 14	52 26	48 25	40 7	17 5	25 13	23 12	37 10	38 16	43 29	36 8	21 -1	22 8	20 -8	14 -10	20 0	18 -15	37 14	34 3	12 0	22 3	20 11	8 -2	3 -12	12 -15	25 -6	28.0 6.5
Albia	MAX MIN	23 17	37 23	40 30	44 27	27 13	46 20	54 33	53 36	43 14	23 13	30 22	25 21	39 20	43 24	51 33	34 14	23 7	21 15	21 -2	17 -8	25 5	16 -11	37 16	36 8	11 5	20 10	27 15	23 1	2 -8	12 -12	18 -1	29.7 12.9
Algona	MAX MIN	21 15	26 18	34 24	36 22	23 8	38 15	46 32	41 27	35 2	12 5	22 12	30 15	39 17	38 17	35 32	15 2	22 -1	17 12	12 0	14 -4	12 -11	31 12	22 -1	5 -4	15 -3	18 3	14 -2	3 -12	12 -12	28 2	24.3 7.6	
Allison	MAX MIN	23 16	22 14	32 17	36 28	31 12	39 14	49 31	46 30	34 8	25 9	26 18	31 18	36 18	40 16	42 34	38 4	19 1	22 11	16 -7	16 -8	20 -13	10 -16	34 10	33 0	9 0	16 0	21 3	20 2	11 -13	22 -16	26.5 7.8	
Alta	MAX MIN	24 4	27 16	34 24	37 17	20 5	40 18	47 29	42 28	31 28	11 4	20 9	29 12	37 14	38 21	36 31	32 3	16 -3	22 11	15 -4	10 3	13 -8	12 -9	31 11	15 -5	5 -3	16 -6	12 5	12 -3	2 -14	13 -13	29 5	23.5 6.5
Alton	MAX MIN	27 -3	30 15	34 20	35 20	29 8	38 18	46 27	47 28	35 -5	16 4	20 8	27 10	40 12	42 13	35 32	17 4	23 -5	17 10	13 -7	12 -10	12 -20	22 12	15 -6	10 -5	17 -8	20 -2	18 -2	8 -13	10 -8	30 10	25.4 5.1	
Ames 3 SW	MAX MIN	22 17	31 20	35 26	38 25	25 10	41 17	46 41	46 31	36 27	19 8	26 19	24 18	36 13	38 11	42 15	39 9	19 3	23 13	20 -2	12 -5	18 3	14 -11	33 13	33 5	10 1	20 2	19 10	1 -12	10 -16	23 -8	26.4 9.2	
Anamosa 1 NW	MAX MIN	24 6	31 19	35 27	38 33	35 15	41 14	51 31	49 29	38 19	25 15	27 21	27 19	36 13	38 15	50 29	44 12	20 6	22 10	22 -5	16 -22	26 -6	13 -18	35 12	35 9	21 8	23 12	28 3	28 0	1 -12	8 -15	16 -6	29.1 9.5
Atlantic 1 E	MAX MIN	27 5	38 18	39 27	40 18	21 6	43 16	49 27	45 29	32 8	16 6	23 15	24 11	37 8	42 12	41 30	37 8	21 -1	24 11	21 -3	15 -1	18 -5	17 -12	35 15	31 -1	11 -2	22 3	20 11	17 -2	2 -15	12 -14	28 -2	27.4 7.3
Atlantic AP CAA	MAX MIN	27 6	37 17	41 29	41 13	26 7	41 23	48 27	45 23	25 8	17 7	22 12	25 10	36 6	39 12	40 30	18 7	25 0	14 10	16 -1	18 1	23 -14	34 13	14 1	10 2	19 3	20 12	13 -4	0 -14	9 -13	28 -2	25.8 7.1	
Audubon 2 S	MAX MIN	24 5	30 17	34 26	39 17	18 5	38 16	44 27	40 27	28 5	12 5	19 12	21 12	33 9	35 16	37 30	34 5	16 -2	21 11	16 -4	11 0	16 -3	13 -7	30 12	31 -3	7 -1	20 -2	15 10	13 -3	0 -14	7 -13	24 -2	23.1 6.9
Bancroft	MAX MIN	25 8	22 6	34 12	36 22	22 7	39 9	42 24	38 27	27 -1	12 4	20 6	27 13	36 23	35 13	37 30	33 -2	13 -3	20 6	16 -10	10 -10	12 -6	30 12	30 -6	4 -7	9 -6	17 -1	15 -15	0 -14	12 -11	27 9	22.9 4.0	
Bedford 1 N	MAX MIN	25 13	36 20	40 31	36 20	23 7	43 18	52 27	48 30	40 10	17 11	25 12	24 13	37 12	36 17	43 32	38 10	18 2	22 12	20 -6	18 1	20 3	36 7	36 5	12 6	19 8	23 15	17 0	5 -9	11 -10	25 -3	27.8 10.3	
Belle Plaine	MAX MIN	24 14	34 21	35 27	38 30	30 14	44 16	52 34	50 29	35 15	22 13	27 22	29 18	39 14	40 17	46 30	45 11	20 3	21 12	21 -5	13 -13	25 4	25 -16	36 12	34 8	15 5	22 7	25 2	5 0	1 -10	7 -20	18 -8	28.5 10.0
Bellevue Lock & Dam 12	MAX MIN	27 5	33 22	37 28	38 18	38 18	41 18	49 32	48 27	28 25	20 24	28 30	38 19	39 20	51 31	50 18	23 11	25 15	24 3	16 -18	30 15	25 -10	36 11	36 19	22 13	27 21	30 8	33 12	13 -10	11 -15	18 -8	31.8 13.8	
Bloomfield 2 N	MAX MIN	27 17	38 24	42 32	45 24	29 15	48 19	56 30	54 30	41 15	26 14	28 21	26 21	34 22	34 31	47 13	43 6	22 8	20 -2	22 -8	22 3	24 -6	37 18	37 10	13 5	22 9	30 15	30 -5	7 -13	9 -19	19 -4	30.9 12.1	
Boone	MAX MIN	28 16	31 21	35 26	38 23	22 10	42 18	50 32	45 31	35 6	18 9	25 17	26 16	38 15	37 22	47 33	38 6	19 2	23 14	18 -4	13 -2	18 9	14 12	33 2	31 0	10 1	19 11	19 -1	16 -11	1 -11	26 3	26.7 10.0	
Britt	MAX MIN	20 13	24 16	33 20	33 26	29 -3	35 9	37 25	42 27	38 -1	12 4	20 10	25 12	33 13	35 14	36 30	36 2	15 -4	20 9	20 -11	8 -5	8 -15	9 6	31 -3	31 -7	2 -4	12 -1	15 -6	15 -16	4 -17	8 -5	23 4.5	22.6
Burlington WB Airport	MAX MIN	27 18	39 26	43 34	45 26	26 21	45 31	55 35	55 35	40 22	29 22	28 24	28 24	34 21	36 23	56 36	44 12	22 7	25 18	22 -3	25 -5	29 7	30 -5	38 20	37 12	18 15	23 19	33 0	28 -6	0 -7	11 10	21 15.8	31.6
Carroll	MAX MIN	25 6	33 16	34 27	34 18	23 6	40 17	46 30	40 29	32 5	15 6	22 12	27 14	32 12	40 17	45 32	33 6	20 0	23 12	19 -1	11 1	16 0	12 -7	32 11	24 -2	12 0	20 8	16 0	14 -13	2 -11	28 -2	25.3 8.0	
Cascade	MAX MIN	24 4	35 19	35 26	37 35	35 16	40 16	50 49	49 34	26 17	23 23	27 21	29 16	36 15	41 30	43 14	25 8	23 11	22 -8	16 -21	27 7	25 -12	34 12	34 10	21 16	24 10	29 7	1 -13	10 -22	16 -13	29.6 10.1		
Castana 4 E	MAX MIN	26 7	30 16	33 28	41 16	19 4	39 14	47 30	42 29	37 2	12 5	18 9	25 11	35 11	37 19	37 29	32 6	15 -3	21 11	20 -7	15 3	14 -10	31 13	14 -10	2 -4	17 -7	14 7	10 -2	12 -12	27 3	24.3 6.4		
Cedar Rapids No. 1	MAX MIN	25 10	32 21	35 28	38 32	34 17	43 16	50 31	50 28	38 17	26 15	28 20	29 15	38 18	40 29	47 13	20 5	23 11	22 -3	16 -15	26 9	14 -16	35 13	35 10	18 7	22 16	28 7	28 1	1 -11	9 -15	18 -2	29.6 11.3	
Centerville	MAX MIN	25 17	38 23	42 32	47 28	29 14	46 20	55 31	54 36	46 14	25 14	26 22	25 21	38 19	40 22	52 33	49 15	24 7	21 15	21 -6	15 12	26 -10	19 18	37 9	37 6	12 10	20 16	30 5	28 -8	6 -16	11 -3	18 13.5	31.0
Chariton 3 E	MAX MIN	24 16	36 22	38 30	44 30	30 12	45 20	54 31	53 35	46 14	20 12	25 20	25 20	38 16	37 16	46 33	23 15	21 7	21 10	12 -1	23 -6	18 7	37 -20	37 16	10 8	18 6	23 9	21 3	7 -8	9 -18	19 -4	29.3 11.8	
Charles City	MAX MIN	21 14	28 20	35 27	36 22	22 13	38 19	46 32	44 30	30 10	20 11	26 20	29 18	39 20	40 18	42 31	15 4	22 3	6 9	18 -6	20 -4	15 -9	33 -13	21 15	10 1	18 5	20 5	13 -5	3 -13	8 -14	22 -6	24.7 9.0	
Cherokee	MAX MIN	26 3	28 18	34 25	39 23	23 5	40 14	46 29	43 27	28 0	11 4	19 10	26 11	37 14	40 16	34 34	16 -3	22 11	11 5	10 -9	12 -16	13 12	28 -6	12 -4	4 -8	16 0	18 -3	15 -13	5 12	12 -27	23.7 6.2		
Clarinda	MAX MIN	27 4	36 21	43 32	42 24	25 10	44 24	50 28	47 29	33 12	17 10	24 16	25 15	38 10	36 15	43 35	39 9	19 3	23 12	22 -1	18 -1	20 -2	32 -15	27 21	12 7	19 4	21 8	19 3	6 -6	12 -12	24 -4	28.1 10.6	
Clarion	MAX MIN	21 15	25 18	34 25	36 25	25 8	38 12	42 28	44 29	35 3	15 7	24 14	30 15	38 13	39 15	40 31	37 3	17 -2	22 11	16 -8	11 -2	15 -5	32 -13	32 11	15 0	14 -4	16 -2	16 -1	1 -4	11 -14	26 -5	25.0 6.7	
Clinton No. 1	MAX MIN	32 8	34 20	38 31	39 34	36 18	41 18	53 29	52 27	35 28	30 22	29 23	30 20	39 17	41 18	45 32	24 17	26 11	23 14	22 0	31 -12	20 -14	35 12	33 20	24 14	30 17	33 15	28 10	3 -8	15 -7	23 3	32.1 14.8	
Columbus Junction	MAX MIN	25 20	36 23	38 32	41 30	34 21	45 21	57 32	55 34	45 20	27 19	27 25	28 20	38 20	42 20	53 32	50 15	23 5	22 15	24 -2	22 -16	29 21	38 16	38 15	22 9	22 13	33 15	33 5	6 -8	12 -15	20 -5	32.5 14.3	
Corning 2 E	MAX MIN	25 6	34 18	36 28	43 21	22 8	40 17	48 29	48 30	38 9	16 8	24 14	23 14	35 14	36 16	42 32	40 7	18 1	22 11	21 -4	14 -5	18 -12	36 16	19 2	10 3	19 7	20 15	4 -9	9 -11	24 -3	26.7 9.8		
Council Bluffs 5 NE	MAX MIN	30 5	33 19	35 31	38 16	21 7	42 19	47 30	42 29	35 6	13 7	20 12	25 14	40 																			

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Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Decorah 2 S	MAX MIN	19 0	30 12	35 21	37 33	35 14	36 13	44 26	46 21	31 13	20 11	26 19	28 19	37 18	39 13	43 31	39 11	15 6	22 6	21 -10	13 -21	21 -4	12 -23	33 10	34 6	19 5	22 12	21 10	21 -3	-1 -20	10 -24	16 -5	26.6 7.1
Delaware 2 W	MAX MIN	23 4	29 17	34 24	36 24	35 14	38 14	46 29	47 29	38 16	26 14	28 17	31 14	36 18	38 21	46 26	42 11	21 6	22 10	19 -6	15 -13	25 -2	14 -18	34 10	34 6	26 12	21 8	26 10	26 -2	-2 -18	5 -20	14 -6	28.1 8.5
Denison 2 S	MAX MIN	27 2	31 7	34 26	30 18	20 5	36 14	46 28	41 30	35 3	15 5	20 10	25 13	36 11	39 14	38 29	35 6	18 6	22 12	20 -5	14 3	16 -2	16 -8	32 14	28 -4	8 -2	20 -4	17 5	11 -3	-1 -14	9 -12	24 4	24.6 6.5
Des Moines WB Airport	MAX MIN	24 17	34 22	39 32	40 22	24 11	43 24	50 31	49 31	31 11	20 12	26 20	22 14	38 13	41 21	44 33	33 6	21 6	21 12	12 -2	16 -5	18 -1	17 -11	35 17	19 5	10 2	19 5	20 12	15 -3	-2 -11	10 -13	22 -2	26.2 10.7
Des Moines WB City	MAX MIN	23 18	35 22	39 31	41 23	25 12	45 25	53 32	50 32	32 12	21 12	26 21	24 16	40 16	42 23	45 32	32 7	21 7	22 11	11 -2	16 -4	19 -1	18 -9	36 18	19 6	10 3	20 6	21 12	15 0	0 -9	12 -11	24 -5	27.0 11.5
Dubuque Lock & Dam 11	MAX MIN	26 7	32 19	38 23	38 33	37 15	39 15	48 29	48 30	42 20	30 16	28 21	29 22	37 17	38 18	50 29	50 14	20 8	25 13	24 -2	14 -12	29 11	22 -11	36 6	36 13	20 10	22 18	24 8	28 8	9 -17	8 -20	13 -11	30.3 11.3
Dubuque WB City	MAX MIN	26 12	33 22	38 31	38 31	31 16	41 20	51 34	50 34	37 20	27 18	28 23	30 20	39 19	41 23	52 32	46 14	21 11	25 16	21 -6	24 -10	31 2	16 -10	36 16	37 12	22 12	26 14	32 13	28 -4	-2 -11	10 -16	19 1	30.8 13.2
Elkader	MAX MIN	25 -4	28 11	35 23	35 34	36 14	37 14	50 24	48 25	32 15	24 14	28 14	30 21	39 15	41 15	46 32	42 11	20 6	22 3	22 -10	13 -23	25 -5	12 -23	34 11	33 8	19 7	23 14	24 5	23 0	3 -17	10 -31	14 -11	28.2 6.8
Emmetsburg	MAX MIN	21 0	26 13	34 24	36 21	21 7	40 13	48 30	42 25	35 0	11 4	20 10	32 13	41 18	38 16	36 31	35 5	19 -3	22 11	17 -8	11 -1	12 -10	14 -13	32 11	20 -3	6 -5	15 -5	17 3	13 -3	4 -13	12 -11	29 4	24.5 5.9
Estherville	MAX MIN	21 4	26 13	34 22	37 18	18 7	38 16	47 31	41 22	22 -2	9 3	18 9	29 13	41 18	37 15	38 31	32 0	15 -3	22 10	10 -3	11 -10	11 -3	11 -12	27 -15	11 -5	5 -7	13 -7	17 -6	12 -5	1 -15	13 -9	27 7	22.4 4.8
Fairfield	MAX MIN	25 20	36 24	40 34	43 29	32 19	43 21	54 33	54 32	40 18	26 17	26 24	27 24	36 19	37 24	52 32	50 11	20 6	23 15	22 -3	24 -10	26 10	16 -9	37 15	36 11	14 8	20 12	32 16	32 4	4 -9	8 -12	18 2	30.7 14.1
Fayette	MAX MIN	24 -4	30 16	35 24	37 33	36 14	38 14	46 28	46 27	36 13	23 13	28 19	30 20	38 16	40 14	44 22	42 8	18 6	22 8	22 -6	10 -22	22 7	12 -23	34 9	34 8	18 5	22 10	22 0	2 -17	2 -17	6 -11	14 -11	27.5 7.6
Fort Dodge	MAX MIN	22 14	29 19	34 25	37 24	25 8	40 13	47 31	44 30	35 4	15 7	24 14	29 15	38 16	39 16	40 32	39 5	18 0	23 13	20 -4	12 -1	14 0	13 -10	32 12	27 1	7 -2	15 -2	17 6	17 -2	0 -14	12 -12	27 -1	25.5 8.3
Glenwood 2 E	MAX MIN	28 8	33 19	38 31	38 17	22 5	42 21	49 29	45 27	33 8	14 8	26 12	24 12	38 9	33 15	40 33	37 9	20 1	22 13	17 0	18 -4	18 -1	20 -9	35 19	24 0	6 0	21 3	20 16	17 -10	1 -15	12 -15	30 1	26.5 9.2
Greenfield	MAX MIN	24 10	34 17	37 24	41 19	21 7	40 16	42 29	46 28	33 9	15 5	23 10	24 14	36 12	37 19	42 34	39 9	18 1	21 11	24 -3	13 -6	18 -2	15 -9	37 10	34 2	15 3	20 7	18 5	16 0	2 -10	10 -12	25 -4	26.5 8.2
Grinnell	MAX MIN	24 16	32 20	35 25	37 26	30 10	44 15	50 29	49 30	40 11	22 10	26 20	27 16	37 13	41 18	47 28	44 8	20 1	21 11	21 -7	11 -9	24 1	14 -16	35 10	35 5	13 2	21 3	23 4	23 -3	4 -17	10 -17	20 -6	28.4 8.3
Grundy Center 5 NE	MAX MIN	23 14	30 20	35 27	36 30	34 11	41 17	48 33	47 28	36 10	21 10	28 19	29 16	38 14	39 17	45 30	45 2	18 4	22 9	23 -2	17 -12	22 0	16 -22	41 9	41 6	13 0	20 1	22 2	20 -3	4 -6	8 -19	20 -11	28.5 8.2
Guthrie Center	MAX MIN	24 9	29 19	36 27	36 20	20 8	41 17	46 30	40 32	37 7	15 7	21 15	15 15	19 19	32 5	5 2	14 -1	2 -2	14 -2	2 -9	11 0	1 1	1 1	11 -2	11 -11	1 -11	1 -11	1 -11	2 -11	2 -11	2 -11	26 -2	9.1
Guttenberg Lock & Dam 10	MAX MIN	33 4	36 18	43 23	42 32	42 14	51 14	51 29	41 27	29 16	30 15	38 20	41 17	46 19	53 29	49 11	21 6	24 11	21 -3	17 -5	28 -16	22 9	36 9	36 9	21 8	28 15	27 11	27 0	4 -15	10 -18	16 -10	32.4 9.8	
Hampton	MAX MIN	23 16	27 20	34 21	35 30	30 10	38 13	47 32	44 29	36 7	17 9	25 17	31 17	40 39	42 31	39 20	22 0	22 9	20 -7	10 -6	18 1	10 -13	33 9	33 3	8 -1	15 0	18 0	18 0	0 -1	10 -13	25 -13	26.0 8.3	
Harlan	MAX MIN	27 7	32 20	35 30	35 20	20 7	40 16	45 26	42 27	35 7	13 8	20 13	23 14	34 6	37 14	39 31	36 8	17 0	21 13	21 -2	14 4	17 4	17 -5	33 16	25 -1	7 1	18 0	18 13	16 0	1 -10	10 -16	28 -2	25.0 8.7
Hawarden	MAX MIN	30 -3	29 17	34 25	38 16	27 6	42 22	45 28	40 14	25 0	16 4	18 8	25 10	40 11	38 10	43 25	15 5	23 -5	20 -8	13 -1	13 -13	15 -20	25 8	18 -5	8 -5	11 -8	20 -6	21 -3	11 -13	13 -8	29 10	24.8 4.2	
Ida Grove 4 S	MAX MIN	27 8	29 18	33 26	38 18	20 4	37 16	43 29	43 28	31 3	12 5	21 10	25 12	35 18	39 31	37 31	34 7	17 -1	22 11	21 -5	11 -3	15 -10	13 -11	31 11	21 -4	5 -2	15 -5	16 6	16 -3	2 -16	12 -14	25 3	24.1 6.9
Independence 2 W	MAX MIN	25 1	30 15	35 21	37 29	35 9	40 11	46 26	48 23	38 10	22 9	28 17	29 17	37 9	40 15	45 26	42 6	19 1	22 7	21 -10	14 -17	23 4	14 -22	35 7	35 4	16 0	20 5	24 3	24 -3	1 -19	10 -26	15 -16	28.1 5.2
Indianola	MAX MIN	24 17	34 20	35 27	42 28	28 10	45 18	53 31	52 33	41 13	24 11	26 18	25 18	39 16	42 20	46 32	44 14	22 5	22 12	20 -2	10 -10	22 7	14 -16	37 12	36 6	12 4	21 7	20 10	20 2	3 -10	14 -11	24 -2	28.9 11.0
Inwood 2 W	MAX MIN	25 3	25 16	33 20	36 13	17 5	39 15	48 31	38 21	23 -4	8 0	15 5	25 8	40 10	35 11	40 26	29 1	12 -7	23 7	14 -10	10 -3	11 -19	12 -24	18 8	10 -8	3 -7	12 -12	20 -5	14 -6	3 -15	10 -12	28 8	21.9 2.5
Iowa City AP CAA	MAX MIN	25 6	36 23	36 33	40 25	26 18	43 23	53 27	52 27	34 18	27 17	28 24	26 14	43 8	42 15	43 33	22 8	23 4	18 -19	24 -21	26 -5	18 -14	26 -16	36 16	35 16	16 8	20 8	32 8	25 -2	18 -18	18 -20	29.9 8.9	
Iowa Falls 1 N	MAX MIN	22 14	27 18	33 23	37 28	30 12	38 12	47 29	46 28	39 6	18 8	26 12	28 15	38 30	42 37	38 20	37 0	18 15	20 -8	10 -6	17 3	10 -14	9 7	33 2	33 -2	8 -1	17 2	18 -2	18 -15	0 -11	13 -5	23 -5	25.9 7.7
Jefferson	MAX MIN	24 12	32 20	36 27	39 21	23 8	42 17	48 31	45 29	35 6	17 15	24 14	26 13	38 14	39 31	42 8	38 2	20 13	23 -1	20 0	11 3	16 -6	12 11	33 1	33 1	18 0	11 10	17 -1	17 -13	2 -15	12 -15	27 -4	26.5 8.8
Keokuk Lock & Dam 19	MAX MIN	28 22	40 26	43 35	47 36	37 23	46 33	54 39	54 39	49 23	29 22	29 26	31 26	34 23	34 28	57 33	55 21	31 11	27 21	25 8	21 -1	33 20	26 -1	38 19	39 18	21 13	29 15	33 21	33 10	10 -1	12 -3	23 9	34.5 19.3
Keokuk WB City	MAX MIN	30 21	41 28	47 37	48 28	29 25	47 36	57 35	59 35	46 24	31 25	31 28	29 25	36 29	40 29	63 40	47 23	24 10	26 22	23 7	27 -1	31 10	22 0	39 22	38 14	17 12	23 14	32 20	22 3	2 -4	12 -4	23 12	33.6 19.1
Keosauqua State Park	MAX MIN	25 20	40 24	43 33	46 30	30 20	49 21	60 33	58 35	49 19	28 18	28 25	27 25	38 20	33 24	52 32	50 19	21 8	23 15	21 -4	15 -11	29 -7	20 19										

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Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Mapleton 5 NW	MAX MIN	27 3	30 15	36 27	39 18	20 5	40 17	44 26	43 26		13 6	18 11	26 12	37 12	39 15	39 30	32 7	17 -2	22 11	17 -6	14 4	14 -7	14 -12	31 12	12 -4	4 -3	14 -6	18 4	13 -2	1 -12	14 -13	29 5	23.9 6.6	
Marshalltown No. 1	MAX MIN	23 18	34 21	36 26	39 27	27 11	44 15	51 31	48 29	31 11	21 11	28 20	29 18	40 15	39 15	46 31	41 8	20 2	22 10	20 -9	15 -16	23 -1	14 -24	35 12	34 5	13 2	20 4	22 3	21 -2	2 -12	11 -23	22 -12	28.1 7.9	
Mason City 3 N	MAX MIN	21 15	26 18	34 23	36 25	25 9	36 13	42 31	43 27	34 5	16 8	25 15	29 16	37 18	39 16	40 31	35 1	16 0	23 11	16 -8	14 -5	17 -8	12 -13	33 11	31 0	6 -2	15 1	18 0	15 -3	-3 -15	12 -11	23 -2	24.7 7.3	
Milford 4 NW	MAX MIN	21 -7	25 11	33 22	36 19	17 2	37 10	44 26	42 23	23 -4	8 1	17 7	27 11	41 16	37 15	39 17	33 0	17 -6	21 8	11 -11	10 -5	10 -13	18 -18	20 5	11 -7	5 -8	14 -10	19 -6	10 -5	1 -16	13 -11	28 8	22.1 2.4	
Millerton	MAX MIN	26 15	37 22	38 28	45 27	29 11	46 19	55 31	52 34	44 12	21 11	25 15	25 19	40 17	36 21	47 25	46 14	23 6	23 13	21 -3	13 -9	24 8	18 -11	37 17	35 8	11 4	21 4	25 15	22 3	5 -8	8 -12	19 -3	29.6 11.4	
Missouri Valley	MAX MIN	29 14	36 26	38 31	39 17	22 7	44 21	48 30	44 30	31 5	14 8	20 13	26 14	39 14	41 18	40 31	33 8	21 0	22 15	15 -3	6 -3	7 -7	15 -1	1 -1	3 -3	10 -3	20 -3	32 -13	32 -7	3 -10	14 -7	20 6	26.5 9.6	
Monmouth 4 SW	MAX MIN	25 17	33 15	42 25	38 32	35 15	41 16	49 29	48 27	38 20	25 15	26 20	29 20	38 13	36 17	49 27	48 13	22 6	23 15	21 -3	14 -16	28 11	19 -15	34 10	35 10	22 8	25 12	30 4	33 3	6 -13	10 -16	18 -6	30.3 10.7	
Mount Ayr 2 N	MAX MIN	25 5	36 20	42 31	48 22	22 19	48 19	52 27	49 31	42 19	18 10	25 13	26 17	39 12	35 12	44 34	43 12	21 4	22 13	21 -5	17 -6	20 7	20 -12	36 20	35 5	12 5	20 10	22 10	12 -11				30.4 11.7	
Mount Pleasant	MAX MIN	25 17	38 24	40 31	43 32	33 20	46 21	58 31	55 32	46 19	27 19	28 24	27 24	36 19	37 22	52 31	50 16	23 6	23 14	22 1	18 -8	27 -8	20 15	37 12	36 9	16 13	22 9	33 17	32 6	7 -7	11 -12	21 0	31.9 14.7	
Muscatine No. 1	MAX MIN	26 10	37 22	35 30	39 34	35 21	44 20	55 32	53 34	41 22	27 20	28 24	28 23	37 20	42 22	51 32	50 11	22 6	23 16	23 -3	21 -10	29 14	21 -7	36 16	36 13	20 11	25 14	32 14	32 3	3 -7	14 -10	20 6	31.8 14.8	
New Hampton	MAX MIN	19 -2	29 12	34 19	35 28	33 8	38 8	46 27	43 25	34 6	18 6	26 14	29 14	39 17	40 12	42 26	39 2	17 -1	21 5	18 -12	19 -14	20 -8	11 -20	33 6	34 -1	16 -2	17 2		17 -10	-3 -20	5 -23	19 -13	26.3 3.7	
Newton	MAX MIN	23 17	34 22	36 29	40 28	28 12	45 17	52 31	51 33	40 12	20 12	26 20	25 18	40 14	40 21	45 31	44 11	20 4	22 15	21 -4	13 -5	22 5	14 -15	35 14	34 8	12 3	19 5	22 8	22 1	2 -11	10 -13	20 -4	28.3 10.9	
Northwood	MAX MIN	25 5	28 15	35 20	33 25	27 9	36 11	47 23	41 22	36 10	20 5			39 20									11 -13	32 11	32 0	5 -4	11 2	16 0	14 -4	0 -14	8 -14	25 -2		
Norwich 2 E SCS Exp. Farm	MAX MIN	28 7	35 20	40 31	42 20	22 8	40 19	44 27	45 30	37 11	17 11	23 9	24 12	37 10	35 17	40 34	39 9	19 1	22 11	21 -3	18 -2	19 2	18 -9	21 20	19 1	9 2	18 5	21 15	17 1	3 -8	11 -12	26 -4	26.8 9.5	
Oakland 2 E	MAX MIN	28 8	34 20	36 30	40 19	21 8	41 17	47 28	42 30	37 8	15 8	22 14	23 14	37 8	36 13	39 32	37 9	18 0	23 13	21 -2	15 2	18 0	17 -12	34 16	32 -1	8 1	20 2	20 13	16 0	1 -11	10 -14	28 -1	26.3 8.8	
Oelwein	MAX MIN	21 5	30 19	34 25	36 34	34 14	38 15	48 31	48 32	34 13	22 13	28 13	29 21	38 16	40 18	45 30	41 9	18 9	22 12	20 -8	14 -12	23 0	12 -13	35 12	34 7	17 5	18 10	24 6	22 -3	3 -14	7 -15	18 -10	27.3 9.5	
Onawa	MAX MIN	32 1	36 16	36 29	41 15	21 4	41 17	46 26	42 20	22 2	14 5	17 11	26 12	40 10	40 12	40 28	31 7	17 -3	22 12	14 -7	17 5	17 -8	21 -13	26 12	14 -5	3 -4	16 -7	19 7	17 -5	1 -14	15 -15	31 6	25.0 5.7	
Osage	MAX MIN	24 9	26 14	33 20	35 32	35 10	37 11	44 29	42 27	41 6	16 8	24 14	29 15	39 17	38 15	40 30	39 6	14 0	22 9	21 -8	7 -5	23 -15	9 8	32 2	32 -2	8 3	14 1	18 0	17 -15	-4 -17	7 -5	21 -5	25.3 7.2	
Osceola	MAX MIN	26 15	37 21	38 28	45 26	27 10	44 18	53 30	50 31	42 11	18 10	25 17	25 17	38 14	37 20	44 32	43 12	22 4	21 13	21 -2	12 -7	21 9	17 -9	37 16	35 6	10 4	20 7	20 15	19 2	6 -8	11 -11	24 -4	28.6 11.2	
Oskaloosa	MAX MIN	27 17	35 20	37 29	39 28	28 16	47 21	56 31	53 34	38 17	24 15	27 23	26 20	41 16	37 19	48 35	48 13	24 7	22 17	22 -2	18 -9	24 10	17 -14	36 17	35 10	12 6	19 9	26 10	22 -8	2 -14	12 -4	21 -4	29.8 12.6	
Ottumwa 1 WSW	MAX MIN	26 19	38 24	40 31	44 31	33 16	49 21	58 30	56 30	50 20	26 17	27 24	27 24	40 17	42 21	52 32	48 20	25 8	24 10	23 2	15 -17	27 14	20 -14	38 15	38 12	14 8	21 12	31 17	31 6	10 -8	13 -15	20 -4	32.5 13.6	
Ottumwa AP CAA	MAX MIN	25 19	36 25	42 29	42 24	25 15	47 25	55 33	54 34	34 16	25 15	26 23	25 20	37 20	40 24	50 37	38 10	23 7	22 16	17 -3	25 -9	25 -3	19 -10	36 19	34 9	12 6	18 10	29 15	19 -1	-1 -12	8 -15	18 0	29.1 12.8	
Perry 2 SE	MAX MIN	24 15	34 19	35 26	39 23	24 9	43 14	48 31	46 31	35 8	17 9	25 16	26 15	38 11	39 10	42 32	40 11	23 4	21 14	21 0	11 -2	16 5	11 -8	33 11	32 3	14 2	20 2	18 11	17 0	0 -12	12 -14	27 -5	26.8 9.4	
Pringhar	MAX MIN	26 2	26 3	34 22	42 14	22 10	38 14	44 27	40 25	35 -4	11 0	18 5	25 8	35 12	40 18	38 29	34 1	14 -5	18 8	15 -8	12 -2	11 -11	10 -15	22 8	15 -12	3 -7	10 -10	18 0	12 -5	4 -16	11 -12	26 7	22.9 3.4	
Red Oak	MAX MIN	28 4	36 22	41 31	41 20	26 9	42 26	47 29	44 30	32 10	18 9	23 17	24 13	36 10	37 14	41 33	35 8	19 2	23 13	16 0	18 1	19 -7	24 -9	37 16	16 2	10 3	21 6	21 16	18 0	3 -12	11 -12	29 -3	27.0 9.7	
Rock Rapids	MAX MIN	26 2	26 16	33 24	36 17	18 8	40 18	43 31	38 20	8 -2	15 3	26 7	39 11	37 12	41 15	31 31	14 -3	21 9	12 -7	11 -1	11 -21	12 -24	17 10	10 -6	4 -5	11 -8	20 -6	10 -6	3 -13	12 -8	25 11	21.6 4.5		
Rockwell City	MAX MIN	22 4	30 17	34 25	37 20	20 6	39 15	46 30	44 26	31 3	13 6	22 11	28 13	35 14	38 18	39 30	35 6	18 -1	22 11	17 2	11 -2	14 1	12 -8	31 11	23 -1	8 -2	17 2	16 6	13 -2	2 -14	13 -16	28 -4	24.5 7.2	
Sac City	MAX MIN	24 6	32 18	35 26	37 20	40 6	47 9	45 31	38 29	12 3	22 6	28 11	33 16	42 15	38 32	33 6	19 -2	22 13	16 -1	11 -4	11 -4	13 -7	31 13	27 -2	8 -2	18 6	18 -1	18 -12	1 -11	13 -11	30 2	25.1 7.8		
Sanborn	MAX MIN	25 2	26 10	32 21	36 12	17 4	37 14	41 25	39 25	30 -5	7 -4	17 4	21 7	35 14	38 13	37 29	33 0	17 -7	14 -10	10 -3	10 -13	10 -19	20 7	13 -10	3 -8	8 -12	19 -3	10 -5	2 -18	10 -13	26 6	21.2 2.3		
Sheldon	MAX MIN	24 -1	26 16	33 24	37 15	17 6	37 17	43 25	39 23	23 -3	9 2	17 7	22 9	35 12	38 12	38 30	30 -3	14 -5	21 8	13 -7	10 -1	10 -16	12 -21	20 11	11 -7	3 -6	10 -9	20 -3	11 -3	3 -14	11 -9	27 9	21.4 4.0	
Shenandoah	MAX MIN	29 5	36 21	41 31	39 19	23 9	43 20	50 30	47 30	16 10	23 9	26 14	41 15	35 16	41 33	36 8	22 1	24 13	20 -2	19 0	17 3	23 -9	37 21	25 1	9 1	21 5	23 15	17 0	6 -9	14 -8	32 0	28.1 10.2		
Sibley	MAX MIN	25 -2	26 16	33 21	36 16	20 5	37 12	43 23	40 25	36 -5	9 -1	17 4	25 10	38 12	38 30	38 2	15 -6	21 13	16 -10	10 -4	10 -12	8 -31	18 6	12 -10	7 -7	10 -11	19 -12	14 -5	6 -16	13 -12	26 7	22.7 2.2		
Sigourney	MAX MIN	24 19	37																															

DAILY TEMPERATURES

IOWA
JANUARY 1949

Table 5-Continued

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Toledo	MAX	24	32	35	38	30	44	52	51	39	22	26	28	40	41	45	45	22	21	21	12	26	12	35	35	14	23	24	24	2	12	20
	MIN	17	21	27	30	12	15	31	30	14	12	21	18	16	18	30	12	2	12	-3	-14	5	-19	12	7	3	6	6	0	-10	-14	-5
Tripoli	MAX	25	31	35	37	37	40	50	46	41	20	27	33	41	43	44	43	19	22	21	12	22	14	35	35	15	22	22	22	1	7	16
	MIN	4	17	23	34	12	14	30	30	11	12	19	19	15	18	30	9	4	12	-7	-10	4	-16	1	6	3	7	5	-1	-16	-18	-9
Washington	MAX	25	37	36	40	34	45	57	54	42	26	32	32	38	42	53	48	24	25	22	18	28	21	36	36	18	23	32	33	5	11	20
	MIN	15	22	29	33	17	20	31	30	18	17	23	23	19	21	32	16	4	14	-1	-11	14	-9	15	11	8	11	17	4	-10	-15	-4
Waterloo	MAX	25	30	35	37	32	40	49	46	38	22	28	30	38	39	45	41	19	22	22	14	23	13	35	34	13	19	23	21	-1	8	19
	MIN	8	20	25	32	13	14	30	31	12	11	20	19	14	18	30	9	3	13	-5	-10	3	-18	11	6	2	5	4	-1	-15	-18	-12
Waukeg	MAX	23	34	36	40	30	43	50	50	43	20	26	25	38	41	44	42	21	21	20	12	18	12	35	35	10	19	20	20	2	10	22
	MIN	17	22	32	30	11	20	31	32	11	11	20	18	13	21	32	14	6	14	-2	-6	6	-11	12	4	2	5	12	0	-11	-13	-2
Waukon	MAX	19	29	34	35	34	35	43	43	37	18	25	29	38	38	44	38	17	19	18	11	23	10	33	33	19	20	21	21	-1	4	13
	MIN	1	11	18	28	9	8	24	23	8	7	14	15	13	16	26	6	1	2	-11	-14	-5	-19	5	3	1	10	9	-2	-20	-23	-11
Webster City	MAX	22	29	35	38	25	39	48	45	38	18	26	28	36	39	41	38	16	23	22	11	16	13	33	33	7	14	18	15	-2	12	25
	MIN	16	20	26	24	9	17	31	30	5	9	17	16	14	14	31	5	1	12	-5	-2	-1	-10	12	2	-1	-1	4	-2	-17	-20	-6
Williamsburg	MAX	24	33	35	38	31	43	51	51	39	25	27	27	40	39	49	47	22	23	21	15	25	15	35	35	15	22	28	26	6	10	20
	MIN	12	21	27	31	17	20	31	31	17	15	23	17	15	19	31	13	4	14	-4	-12	8	-14	14	10	6	10	6	5	-9	-15	-5
Winterset	MAX	25	35	35	42	27	43	52	50	40	17	25	26	41	40	44	42	24	22	22	12	19	17	37	37	12	22	19	19	10	15	27
	MIN	14	20	22	25	10	17	31	32	10	9	16	16	16	22	32	13	4	13	-3	-4	11	-10	12	4	3	5	12	2	-10	-9	-1
Woodward 7 N	MAX	23	33	35	40	28	41	47	46	38	17	26	25	36	40	43	40	25	23	21	13	17	12	34	34	18	19	20	19	5	11	24
	MIN	16	20	27	27	9	15	31	30	7	9	16	16	10	17	32	10	4	14	-1	-3	6	-9	11	3	0	2	9	-1	-13	-14	-3

SOIL TEMPERATURES AT AMES, IOWA JANUARY, 1949

Temperature	4 feet above ground	At Depth in Soil of---					
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches
Average 7 a.m.	13.6	20.1	20.9	23.5	26.9	32.9	
Average 12 noon	19.5	23.2	23.9	24.5	26.7	33.0	
Average 7 p.m.	18.1	22.8	23.5	24.9	27.0	32.8	38.8
Highest	46	35	34	33	31	35	41
Date	7+	15	15	8	4+	1+	1+
Lowest	-16	6	9	14	21	30	36
Date	30	22	20+	22	22	26+	28+
Number of days with temperature							
0° or lower	0	0	0	0	0	0	0
24° or lower	26	23	22	21	10	0	0
32° or lower	31	31	31	31	31	12	0
40° or higher	4	0	0	0	0	0	12
50° or higher	0	0	0	0	0	0	0
60° or higher	0	0	0	0	0	0	0
90° or higher	0	0	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°.
Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

REFERENCE NOTES

- The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.
- Delayed data and corrections will be carried only in the June and December issues of this bulletin.
- Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.
- Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.
- When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- Amounts in Table 4 are from recording gages. Traces are not shown.
- Amounts in Table 3 are from non-recording gages, unless otherwise indicated.
- Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.
- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

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STATION INDEX

1964
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Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0084	Union	9	41 02	84 13	1200	SP	SP	Dave Henderson	2 3 5	Larrabee	4644	Cherokee	11 42 32	85 33				Ruth I. de St. Paer	2 4	
Akron	0088	Plymouth	1	42 49	86 33	1153	SP	SP	Orlan C. Moore	3	Le Claire	4700	Scott	14 41 28	90 21	576			Margaret T. Disney	2 3 5	
Albia	0112	Monroe	8	41 03	82 48	949	SP	7A	Arthur L. Freed	2 3 5	Le Claire Lock & Dam 14	4705	Scott	14 41 35	90 24	578	7P	7P	U.S. Engineers	2 3 5	
Algona	0133	Kossuth	8	43 04	84 14	1200	7P	7P	Harry H. Wolfe	2 3 5	Le Marx	4725	Plymouth	7 42 48	86 10	1230	7P	7P	D. H. Reig	2 3 5	
Allerton	0148	Wayne	9	40 42	93 23				Herman E. Baddy	3 4	Lenox	4746	Taylor	28 40 53	94 34				Charles A. Reed	3 4	
Allison	0157	Butler	4	42 46	82 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Little Sioux	4867	Harrison	11 41 49	96 01				Richard I. Johnson	3	
Alta	0178	Buena Vista	20	42 40	85 18	1513	7P	7A	F. Edna Allen	2 3 5	Logan	4894	Harrison	3 41 38	95 48	1120	6P	6P	Ray Ann Stern	2 3 5	
Alton	0181	Sioux	7	42 58	85 01	1305	7P	7P	W. S. Sigle	2 3 5	Malvern 5 mi. W	5060	Wills	26 41 01	95 40	1000			W. J. Van Orsdel	3	
Ames 3 mi. SW	0205	Story	21	42 00	93 38	1004	7P	7P	Charles H. Brown	2 3 4 5 6	Mapleton 5 mi. NW	5133	Woodbury	11 42 18	95 48	1250	6P	6P	Mrs. May C. Schear	2 3 5	
Anamosa 1 mi. NW	0213	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Mapleton 2 mi. SW	5137	Woodbury	11 42 10	95 48				S. Arch Nepper	3	
Atlantic 1 mi. E	0364	Cass	16	41 24	94 59	1110	SP	7A	Roy L. Pascolly	2 3 5	Maquoketa 4 mi. NW	5131	Jackson	12 42 05	90 42	684	5P	5P	State Police Radio	2 3 5	
Atlantic AP CAA	0369	Cass	16	41 24	95 02	1152	WID	WID	Airways Com. Sta.	2 3 4 5	Marion 4 mi. NE	5183	Linn	4 42 03	91 33				Hybrid Seed Corn Co.	3 4	
Audubon 2 mi. S	0385	Audubon	18	41 42	94 57	1397	6P	6P	Ralph E. Sibby	2 3 5	Marshalltown No. 1	5193	Marshall	10 42 03	92 54	886	6P	7A	George C. Jonsson	2 3 5	
Augusta	0389	Des Moines	21	40 46	91 17	522	5A	5A	Glen Wood	3	Marshalltown No. 2	5198	Marshall	10 42 04	92 56				Raymond H. Hoops	3 4	
Bancroft	0443	Kossuth	6	43 18	94 13	1200	7P	7P	Wilbur Fox	2 3 5	Mauch City 3 mi. N	5230	Cerro Gordo	4 43 11	93 12	1148	6P	6P	Am. Cry. Sugar Co.	2 3 3	
Bartlett 3 mi. E	0493	Fremont	26	40 53	95 44				R. L. Kilpatrick	3	Mauch City AP CAA	5235	Cerro Gordo	4 43 09	93 20	1194	MID	WID	Airways Com. Sta.	2 3 4 5	
Beaver	0549	Boone	6	42 02	94 06				Kermit E. Bullard	3 4	Merrill 5 mi. W	5418	Plymouth	7 42 43	96 20				Art Busted	3 5	
Bedford 1 mi. N	0576	Taylor	28	40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Mifflord 4 mi. NW	5493	Dickinson	18 42 23	95 11	1402	7P	7P	A. C. McKinstry	2 3 5	
Belle Plaine	0600	Benton	10	41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Millerton	5517	Wayne	5 40 50	93 19	1070	6P	6P	J. C. Davis	2 3 5	
Bellevue Lock & Dam 12	0608	Jackson	14	42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Missouri Valley	5584	Harrison	3 41 33	96 54	1088	7P	7P	S. William Sorensen	2 3 4 5	
Blackton 2 mi. S	0745	Taylor	19	40 36	94 29	1081	5P	5P	Glenn A. Cobb	3	Monmouth 4 mi. SW	5622	Jones	12 42 03	90 55	870	7P	7P	Arnold Biesinger	2 3 5	
Blackfield 2 mi. N	0807	Boone	8	40 47	92 26	825	7P	7P	Mrs. Leo Foster	2 3 5	Monona	5630	Clayton	7 42 43	91 22				Mrs. Anna W. Walter	3 4	
Boone	0807	Boone	6	42 04	93 53	1136	6P	6P	E. G. Kolb	2 3 5	Monroe	5638	Jasper	8 41 31	93 06	922	6P	6P	A. H. Dibel	2 3 5	
Britt	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Morse	5732	Johnson	10 41 44	91 26				Margaret H. Miller	3 4	
Burlington WB Airport	1083	Des Moines	14	40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5	Morse 1 mi. NE	5737	Johnson	10 41 45	91 23				Lawrence J. Wall	3 4	
Carroll	1233	Carroll	20	42 04	94 52	1280	7P	7A	Ben H. Schenkelsberg	2 3 5	Morse 4 mi. SW	5742	Johnson	10 41 41	91 28				L. J. Fuhrmeister	3 4	
Cascade	1257	Dubuque	12	42 18	91 00	880	7P	7P	C. J. Seiers	2 3 4 5	Mount Apr. 2 mi. N	5769	Ringgold	9 40 44	94 14	1214	6P	6P	H. L. Cornwellson	2 3 4 5	
Cedar 4 mi. E	1277	Monona	11	42 04	95 49				Bob Zimmerman	2 3 5	Mount Pleasant	5796	Henry	21 40 57	91 32	730	6P	6P	Harvey Chads	2 3 4 5	
Cedar Falls	1300	Black Hawk	4	42 32	92 27	875	7P	7P	W. J. Cable	3	Noville	5823	Woodbury	11 42 29	96 04				Kinar W. Widmark	3 4	
Cedar Rapids No. 1	1318	Linn	4	41 59	91 29	815	7P	7A	John T. Wurster	2 3 5	Nuscatine No. 1	5827	Nuscatine	14 41 28	91 03	680	7P	7P	F. J. Bauerbach	2 3 5	
Cedar Rapids No. 2	1324	Linn	4	41 59	91 40				C. H. Simon	3	Nuscatine No. 2	5842	Nuscatine	14 41 28	91 03	548	7A	7A	Clifford McKee	3	
Centerville	1354	Appanoose	5	40 43	92 52	1013	7P	7P	Earl McStire	2 3 4 5	Nuscatine 7 mi. N	5847	Nuscatine	14 41 32	91 01				Harvey Chads	3 4	
Chariton 3 mi. E	1384	Lucas	5	41 06	93 15	940	7P	7P	Ellis Shaw	2 3 5	Nuscatine 6 mi. NW	5852	Nuscatine	14 41 29	91 07				Harvey Chads	2 3 4	
Charles City	1402	Floyd	4	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	New Hampton	5952	Chickasaw	27 43 04	92 19	1156	7P	7P	Loddy Hrdlicka	2 3 5	
Cherokee	1442	Cherokee	11	42 45	85 33	1358	7P	7P	J. Earl Wirth	2 3 4 5 6	Newton	5992	Jasper	21 41 42	93 04	950	7P	7P	Al A. Schell	2 3 5	
Clarinda	1533	Pape	17	40 44	96 01	1004	7P	7A	Walter L. Weakland	2 3 5	North English	6076	Iowa	4 41 29	92 05	788			Ernest E. Andrews	3 4	
Clarion	1541	Wright	3	42 44	92 44	1170	7P	7P	George Reeder	3 5	Northwood	6103	Worth	4 42 27	93 13	1232	7P	7P	Charles H. Dewille	2 3 5	
Clinton No. 1	1635	Clinton	14	41 50	90 11	580	7P	7P	Samuel W. Williams	2 3 5	Northwich BCR Exp Farm 28	6119	Fage	22 40 45	95 12	1132	7P	7P	Carl Conn. Service	2 3 4 5 6	
Clinton No. 2	1640	Clinton	14	41 50	90 11				David M. Swift	3	Oakland 2 mi. E	6151	Pottawattamie	16 41 19	95 23	1150	6P	6P	Ward D. Reineke	2 3 5	
Columbus Junction	1731	Louisa	10	41 17	91 22	595	6P	6P	Alice Best	2 3 5	Oasis	6186	Johnson	10 41 43	91 24				Ed. Kadara	3 4	
Coon Rapids	1793	Carroll	20	41 51	94 39				Charles W. Smith	3 4	Oswega	6200	Fayette	27 42 40	91 55	1038	6P	6P	Milo M. Frame	2 3 5	
Corniac 2 mi. E	1833	Adams	17	41 00	94 43	1285	6P	6P	John W. Morris	2 3 5	Osage	6243	Monona	15 42 02	96 08	1050	7P	7A	W. J. Oliver	2 3 5	
Council Bluffs 6 mi. NE	1884	Pottawattamie	15	41 30	95 49				Mrs. H. O. Crane	3 4	Osgoe	6305	Mitchell	4 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5	
Council Bluffs 3 mi. NE	1889	Pottawattamie	15	41 19	95 48				Perry C. Crandall	2 3 5	Oswego	6316	Clarke	6 41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5	
Cresco	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Okaloosa	6327	Mahaska	6 41 17	92 40	813	6P	6A	Clif. Bergtresser	2 3 5	
Creston	1982	Union	19	41 03	94 22	1300	7P	7A	Belle Spangler	2 3 5	Ottumwa 1 mi. SW	6386	Wapello	6 41 01	92 26	649	7P	7P	C. L. Nicksch	2 3 4 5	
Cumberland 5 mi. NW	2007	Cass	17	41 18	94 55	1225	6P	6P	Carl E. Pollock	3	Ottumwa AP CAA	6389	Wapello	6 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5	
Cushing 3 mi. NE	2026	Ida	11	42 30	95 38	1350	7P	7P	H. P. Lasher	2 3 5	Ottumwa	6391	Wapello	6 41 00	92 24	620			Winifrey Kinnear	3	
Dakota City	2037	Humboldt	6	42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Perry 2 mi. SE	6366	Dallas	20 41 51	94 06	875	7P	7P	Eugene H. Hantle	2 3 5	
Des Moines WB City	2069	Scott	14	41 30	90 38	578	MID	MID	U.S. Weather Bureau	2 3 5	Pocahontas 2 mi. SE	6719	Pocahontas	8 42 43	94 39	1238	5P	5P	Lawrence Barker	2 3 5	
Des Moines Dry Run	2110	Winneschiek	24	43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Primghar	6800	O'Brien	11 43 05	95 38	1217	6P	6P	R. A. Ballard	2 3 5	
Des Moines 2 mi. S	2112	Winneschiek	24	43 13	91 47	880	7P	7A	Charles Carlson	2 3 5	Red Oak	6840	Montgomery	18 41 01	95 13	1077	5P	5P	Clarence M. Totty	2 3 5	
Delaware 2 mi. W	2136	Delaware	12	42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Red Oak 1 mi. NW	6841	Montgomery	18 41 01	95 14				Mrs. E. W. Conard	3 4	
Denison 2 mi. S	2171	Crawford	3	42 00	95 22	1307			E. H. Hugg	2 3 5	Reese	6875	Plymouth	7 43 49	95 58				Municipal P. & L. Pl.	3 4	
Derby	2195	Lucas	5	40 58	93 27				Lloyd A. Kirk	3 4	Ringsted 5 mi. NW	7058	Emmet	6 43 21	94 32				Ivan B. Watts	3 4	
Des Moines WB Airport	2203	Polk	6	41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5	Riverton	7085	Fremont	16 40 41	95 35	820	7P	7P	William Stubbs	3	
Des Moines WB City	2206	Polk	6	41 35	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5	Rock Rapids	7147	Lyon	1 43 28	96 10	1341	7P	7P	George Haveling	2 3 5	
Dexter	2240	Dallas	6	41 30	94 14				Joseph H. Harlan	3 4	Rockwell City	7161	Calhoun	20 42 24	94 37	1223	7P	7P	F. C. Seitelbacher	2 3 4 5	
Dorchester	2311	Alamakee	24	43 25	91 3																

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

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In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

FEBRUARY 1949

Volume LX No. 2



C. E. Lamoureux, Section Director - Des Moines

GENERAL SUMMARY

From a climatic standpoint, Iowa weather in February was about the usual that can be expected during that season of year. The month was characterized by some sharp temperature changes to sub-zero readings on a number of days and also by some spells of stormy weather. In general, the colder and stormy weather occurred the first half while milder weather prevailed the last fourteen days.

The month began with a continuation of the cold snowy weather of late January. Practically the entire State had 5 to 10 inches of snow cover. Radiation over this snow cover plus nearly calm conditions lowered temperatures on the morning of the 2nd to readings considerably below zero. At Decorah and Fayette in the extreme northeast, a reading of -31° was recorded which equalled the winter low established earlier in January at Elkader and Sibley. For the next two weeks, temperatures alternately rose to near the freezing level or slightly above, shifting rapidly to subzero conditions as cold waves spread across the State. Some of these cold waves were preceded by light snow or snow flurries (some freezing rain in the south); however, amounts were not significant enough to increase the snow cover. As a matter of fact, the snow cover became more packed and was considerably reduced from these brief periods of thawing weather.

Most of the month's precipitation occurred during the period 12-14th. Temperatures preceding the precipitation period rose into the 40's over most of the State under the influence of strong warm and moist southerly winds. A surge of cold Canadian air early on the 12th into northwest Iowa, brought a rapid lowering of temperatures and was accompanied by light rain turning to snow flurries. As this mass of cold air slowly spread southeastward, the precipitation amounts increased gradually with the southeastern third receiving over one inch of moisture. As the rain turned to snow, sleet and some freezing rain was reported. New snow accumulations ranged from one inch or less in the northwest and south-east, to 3 to 7 inches elsewhere. These heavy rains in extreme southeast and extreme eastern Iowa caused some local flash floods on small creeks. Also, where the rain changed to freezing rain, an accumulation of as much as an inch of ice or more caused some damage to communication and power facilities, besides disrupting traffic and highway travel. The Tri-City area (Davenport, Moline and Rock Island), was particularly affected by these weather elements. Additional snowfall amounts occurred on the 14th, but generally did not exceed one inch, although in the Council Bluffs area, an additional four inches fell.

With a change in the weather pattern, the last two weeks of the month were marked with much milder weather. Daily afternoon temperatures on most days rose into the mid 30's to mid 40's, while nighttime readings remained considerably above the zero mark. The weather was also drier and considerable more sunshine was recorded. These conditions were ideal for gradually reducing the snow cover as some thawing occurred each afternoon only to be frozen again at night. The only precipitation of consequence fell early on the 21st, in the form of freezing rain and freezing drizzle. Although the moisture amounts were generally less than 1/10 inch, the freezing rain was sufficient to cause slippery conditions on highways.

Mild temperatures in the 40's on the 23rd and 24th, started the big spring thaw on the small Iowa creeks and streams. Within a short time, jams in creeks and small rivers caused some local flooding. However, the ice on the Des Moines River at Des Moines remained intact but had been reduced from a thickness of 13.5 inches in early February to an average of 12 inches. Further south, below Ottumwa, the ice was breaking up and passing downstream. A sharp freeze on the 25th checked the runoff of the melting snow and reduced the danger of an immediate flood.

On the 26th, at Chillicothe, nine miles northeast of Ottumwa, a huge ice floe completely smashed a three span bridge. This ice floe was a part of a ten mile ice jam that extended upstream to Eddyville and was causing the Des Moines River to overflow in the Eddyville area. At the end of the month, the river was over four feet above bankful in the Eddyville area and some residents in the town were preparing to move to higher ground. Several attempts had been made to dynamite the ice jam. Estimated replacement of the steel bridge at Chillicothe was reported at \$400,000 to \$500,000.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
FEBRUARY 1949

Station	Sea level pressure extremes—_inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	
Burlington WB Airport	30.64	2	29.64	8	10.7	34	NW	24	84	86	77	80	53	1112
Charles City WB City	30.63	2	29.56	8	7.1	21	S	11					51	1368
Davenport WB City	30.65	2	29.66	8										1085
Des Moines WB City	30.57a	20	29.56a	8	10.2	26	NW	8+	80a	82a	69a	74a	51	1257
Dubuque WB City	30.65	2	29.59	8	5.9	18	S	11	77	79	73	76	55	1197
Sioux City WB Airport	30.63	20	29.51	7	11.2	35	NW	9	81	82	70	78	60	1382

a - airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	19.2	49	-25	1.17			1903	19.8	56	-21	1.18	7.9	4	1933	22.3	69	-31	0.32	3.6	3
1874	21.2	59	-20	1.28			1904	14.8	70	-26	0.41	4.5	4	1934	25.0	71	-25	0.47	4.1	3
1875	6.4	48	-31	1.72			1905	12.8	69	-41	1.57	15.5	7	1935	29.1	64	-19	1.13	5.5	6
1876	25.5	68	-16	1.11			1906	23.6	66	-32	1.29	6.1	5	1936	6.0	71	-35	1.33	15.9	9
1877	34.0	63	-5	0.21			1907	25.0	65	-31	0.71	4.6	4	1937	19.6	60	-24	1.04	6.7	6
1878	34.4	60	-8	0.59			1908	24.3	59	-16	1.69	8.9	6	1938	29.0	71	-22	0.94	4.6	7
1879	21.6	57	-20	0.68			1909	26.2	62	-26	1.54	7.7	5	1939	20.3	60	-23	1.75	14.9	5
1880	27.4	68	-12	0.64			1910	17.8	58	-21	0.46	4.0	3	1940	24.2	56	-27	1.18	11.1	9
1881	17.0	57	-24	3.10			1911	27.3	71	-13	2.76	7.0	6	1941	22.3	59	-18	0.50	2.2	4
1882	33.5	72	-12	0.91			1912	18.1	57	-30	1.21	11.2	5	1942	23.4	52	-21	1.15	9.4	6
1883	17.7	62	-33	1.89			1913	20.2	70	-24	0.82	7.3	4	1943	27.5	71	-20	0.77	2.9	4
1884	18.3	56	-23	1.32			1914	16.8	59	-29	0.87	9.2	6	1944	26.7	68	-30	1.10	6.7	6
1885	12.5	54	-32	0.82			1915	29.1	62	-8	2.93	9.4	9	1945	25.5	68	-23	1.43	11.6	7
1886	21.2	56	-34	0.59			1916	19.0	62	-32	0.55	6.0	4	1946	28.8	73	-16	0.36	2.2	5
1887	17.1	60	-25	2.14			1917	15.2	68	-37	0.36	3.5	3	1947	18.3	67	-22	0.31	4.1	4
1888	20.2	64	-34	1.01			1918	23.0	70	-36	0.95	6.0	5	1948	23.2			1.90	5.2	6
1889	17.8	62	-28	0.47			1919	24.9	65	-16	2.42	9.9	8	1949	19.6	57	-31	0.87	5.0	5
1890	25.1	68	-24	0.83			1920	24.0	59	-22	0.56	4.1	5							
1891	19.4	70	-31	1.16		3	1921	31.0	76	-5	0.77	6.5	5							
1892	28.1	68	-20	1.20	5.0	6	1922	23.7	70	-20	1.59	1.3	4	Period	22.5	80	-41	1.08	6.6	5
1893	16.0	60	-28	1.39	8.1	6	1923	20.1	61	-23	0.40	3.2	3							
1894	19.7	60	-19	0.89	8.4	3	1924	25.8	70	-15	1.27	11.2	7							
1895	16.4	73	-33	0.49	3.3	4	1925	28.4	66	-16	0.82	2.6	4							
1896	27.4	78	-13	0.71	5.4	4	1926	31.2	67	-2	0.76	3.3	4							
1897	24.7	61	-24	0.89	8.0	5	1927	30.6	65	-17	1.15	4.4	5							
1898	24.2	62	-18	1.20	7.8	5	1928	28.6	65	-14	1.95	4.4	7							
1899	12.2	75	-40	0.89	7.1	5	1929	14.0	52	-35	1.31	12.5	8							
1900	14.8	60	-27	1.30	9.9	6	1930	35.5	80	-34	0.67	2.8	5							
1901	17.5	49	-21	1.01	9.7	4	1931	35.4	65	-4	0.25	0.9	2							
1902	17.6	62	-21	0.73	2.6	4	1932	28.9	74	-16	0.83	5.1	5							

CLIMATOLOGICAL DATA

IOWA
FEBRUARY 1949

Table 2

Station	Temperature							Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DISTRICT																		
Alta	15.9	-4.3	40	17+	-16	2	28	.11	-.91	.10	13	4.8	11	3+	2			
Alton	18.2	-3.0	43	23	-15	2	28	.65	-.15	.50	2	3.2	6	6+	4	1		
Cherokee	16.2	-4.3	43	23	-17	2+	28	.08	-.82	.05	13	1.2	5	1+	3			
Emmetsburg	16.1		43	17	-15	2	28	.22		.10	2+	2.0	7	2	3			
Estherville	15.3	-2.3	43	17+	-15	2	28	.17	-.70	.10	3	2.7	10	3+	3			
Hawarden	17.7	-3.4	45	17	-17	4	28	.21	-.55	.10	2	2.5	9	2+	6			
Inwood 2 W	14.7	-4.3	45	17	-18	4	28	.05	-.72	.03	15	1.3	6	1+	3			
Lake Park	14.7	-2.3	41	17	-16	2	28	.12	-.69	.08	2	2.5						
Le Mars	18.0	-3.1	44	17	-16	4	28	.19	-.63	.19	2	1.0	3	2+	1			
Primghar	16.9	-2.9	43	23	-16	4	28	.00	-.80									
Rock Rapids	15.6	-2.8	45	17	-18	4	28	.04	-.64	.04	14	1.0	6	1+	1			
Sanborn	14.3	-4.6	42	23	-17	2	28	.06	-.74	.03	2+	1.0						
Sheldon	15.0	-3.9	42	17+	-17	2	28	.08	-.71	.03	2+	1.5	8	2+	4			
Sibley	14.8	-2.2	42	17	-24	2	28	.07	-.64	.07	15	1.0	5	1+	1			
Sioux Rapids	14.6	-5.2	44	17	-27	2	28	.05	-.90	.05	2	3.0	8	2+	1			
Spencer 1 N	14.0	-4.1	44	23	-22	2	28	.38	-.51	.16	2	3.0	4	2+	4			
Storm Lake 2 E	15.1	-5.1	39	17	-18	2	28	.01	-.91	.01	13	.6	3	1+	1			
DIVISION	15.7	-3.7						.15	-.69									
NORTH CENTRAL DISTRICT																		
Algona	16.9	-2.7	41	23	-14	2	28	.28	-.69	.08	13	4.5	7	2+	5			
Allison	17.9	-2.6	48	18+	-15	2	28	.90	-.22	.45	28	9.0	11	15	4	2		
Bancroft	15.1	-2.8	41	23	-15	2+	28						3	1+				
Britt	14.6	-4.3	39	17	-17	2+	28	.90	.15	.24	13	7.5			7			
Charles City	16.2	-2.3	42	18	-20	2	28	.44	-.67	.12	14	4.3	8	1+	7			
Clarion	16.5	-3.8	42	17+	-20	2	28	.14	-.81	.10	13	2.0	10	14+	3			
Dakota City	16.8	-4.0	41	23	-17	2	28	.30	-.63	.20	13	2.2	10	2+	3			
Hampton	17.6	-2.3	43	18	-20	2	28	.39	-.74	.20	13	7.5			4			
Mason City 3 N	15.6	-3.2	41	23	-24	2	28	.22	-.72	.09	13	4.0	9	2+	4			
Mason City AP CAA	13.6	-5.2	38	17+	-20	2	28	.16	-.78	.04	12+	2.6	9	15+	6			
Northwood	15.5	-2.3	39	23	-17	2	28	.39	-.77	.20	2	4.5	13	3	4			
Osage	16.5	-2.1	40	18	-22	2	28	.22	-.80	.15	15	1.7			3			
DIVISION	16.1	-3.1						.39	-.61									
NORTHEAST DISTRICT																		
Cascade	20.8		45	18+	-21	2	27	1.57		1.02	13	8.3	10	15	6	1	1	
Cresco	16.2	-1.3	41	18	-25	2	28	.50	-.55	.32	15	5.1			2	1		
Decorah Dry Run	18.8		45	18	-28	2	28	.44		.17	13+	5.3	15	3+	5			
Decorah 2 S	16.7	-.5	50	18	-31	2	28	.48	-.57	.22	13	6.7	17	14+	6			
Delaware 2 W	18.4	-1.6	45	18	-20	2	28	.89	-.08	.48	13	7.0	15	14+	4	1		
Dubuque Lock & Dam 11	20.7	-1.9	43	24	-20	2	27	1.43	.23	.97	13	10.0	15	1+	6	1		
Dubuque WB City	22.2	-.4	49	18	-12	2	27	1.50	.30	.69	12	9.3	12	14	7	2		
Elkader	17.7	-2.0	48	18	-29	2	28	.67	-.47	.56	13	8.0	31	15	3	1		
Fayette	17.5	-2.1	45	18	-31	2	27	.76	-.52	.44	13	7.0	15	15+	6	1		
Guttenberg Lock & Dam 10	22.1	.6	48	18	-8	14	27	.88	-.27	.66	13	8.1	12	15	5	1		
Independence 2 W	17.6	-3.2	46	18	-26	2	28	1.16	.22	.80	13	10.0	18	15+	4	1		
New Hampton	14.0	-4.8	43	18	-27	2	28	1.02	.00	.90	13	6.0	21	15+	2	1		
Oelwein	18.3	-1.5	45	18	-20	2	28	.63	-.35	.55	13				2	1		
Tripoli	18.5		45	18	-21	2	28	.70		.38	13	4.8			3	1		
Waterloo	18.9	-2.4	46	18	-20	2	28	.72	-.37	.52	13	7.2	17	15+	5	1		
Waukon	14.8 M	-2.9						.36	-.96	.20	13	2.0	14	1+	2			
DIVISION	18.3	-1.4						.86	-.24									
WEST CENTRAL DISTRICT																		
Audubon 2 S	16.3	-6.4	39	17+	-15	2	28	1.39	.29	.68	13	9.4	14	14	8	3		
Carroll	18.6	-3.3	44	23	-17	2	28	.36	-.64	.32	13	6.0			2	1		
Castana 4 E	17.8		42	17	-14	2	28	.42		.35	13	4.3	12	2+	3	1		
Cushing 3 NE	15.7	-5.8	42	23	-16	2	28	.25	-.65	.12	2	2.9	6	2+	3			
Denison 2 S	17.6	-5.0	40	11+	-20	2	28	.40	-.46	.40	11	4.0			1	1		
Guthrie Center	19.7	-3.3	44	17+	-12	2	28	1.03	-.04	.65	13	8.0	9	14+	5	1		
Harlan	18.8	-4.6	43	18	-16	2	28	1.14	.23	1.01	13	9.0	12	1+	2	1	1	
Ida Grove 4 S	17.2	-4.7	41	18	-16	2	28	.43	-.51	.43	13	4.0			1	1		
Jefferson	18.9	-3.1	46	18	-17	2	28	.90	-.19	.60	13	9.0	14	14	3	1		
Lake City	17.3	-4.6	44	23	-15	2	28	.23	-.87	.20	13	2.0	7	1+	3			
Logan	18.8	-5.9	47	17	-18	2	28	.80	-.10	.54	13	13.0	18	14	3	1		
Mapleton 5 NW	17.0	-5.8	43	17+	-22	2	28	.10	-.77	.10	13	3.5	5	1+	1			
Missouri Valley	20.8	-4.1	46	17	-13	4	28	1.06	.16	.41	12	9.9	9	14+	7	2		
Onawa	17.6	-6.4	43	11	-19	4	28	.22	-.81	.20	13	4.5	11	1+	2			
Rockwell City	17.2	-4.4	43	18	-16	2	28	.46	-.77	.38	13	4.7	11	1+	6	1		
Sac City	17.8	-3.7	43	17	-16	2	28	.32	-.72	.24	13	3.3	10	2+	4			
Sioux City WB Airport	15.8	-5.6	44	17	-17	2+	28	.17	-.68	.09	12	1.9	11	2+	3			
DIVISION	17.8	-5.0						.57	-.42									
CENTRAL DISTRICT																		
Ames 3 SW	18.7	-4.1	44	18	-15	2	28	.93	-.05	.45	13	9.5	13	14	6	1		
Boone	19.7	-2.6	45	17	-12	2	28	1.05	.04	.40	13	13.1	11	1+	8	2		
Des Moines WB Airport	20.2	-3.6	46	23	-10	2	28	1.07	-.03	.74	12	5.8	11	1+	6	1		
Des Moines WB City	21.0	-3.9	48	23	-11	2	28	1.06	-.04	.74	12	6.0	10	1+	5	1		
Fort Dodge	18.0	-2.5	44	23	-19	2	28	.35	-.54	.23	13	4.0	12	1+	4			
Griannel	19.9	-3.9	45	18+	-15	2	28	1.23	.10			6.3	16	1+	4			
Grundy Center 5 NE	17.8	-3.8	46	18	-21	2	28	1.03	.03	.60	13				4	2		
Iowa Falls 1 N	16.7	-4.1	43	18	-20	2	28	.55	-.74	.40	13	4.7	10	15+	4	1		
Marshalltown No. 1	19.3	-3.2	48	18	-21	2	28	1.07	-.06	.72	13	10.0	11	13+	6	1		
Newton	21.1	-2.9	48	18	-11	2	28	1.06	-.04	.71	13	5.0	8	1	4	1		

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
FEBRUARY 1949

Table 2—Continued

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	0.1 or more	.25 or more	1.00 or more
Perry 2 SE	19.5	-3.8	47	11	-15	2		28	.90	-.19	.40	13	7.0	10	14+	6	2	
State Center	19.6	-3.4	46	18	-9	2		28	1.12	.02	.74	13	7.9			5	1	
Toledo	20.8	-2.2	48	18	-16	2		28	1.46	.36	.78	13	6.0			7	2	
Waukegan	22.1	-2.2	48	23	-10	2		28	1.22	.15	.80	13	7.0			8	1	
Webster City	17.8	-3.1	43	18+	-24	2		28	.42	-.53	.27	13	4.7	13	1+	5	1	
Woodward 7 N	19.9	-3.1	46	23	-17	2		28	.91	-.14	.53	13	9.2	14	15+	5	1	
DIVISION	19.5	-3.3							.96	-.11								
EAST CENTRAL DISTRICT																		
Anamosa 1 NW	20.8	-1.2	45	18+	-19	2		27	1.63	.53	1.21	13	5.7	11	3+	6	1	1
Belle Plaine	20.4	-2.9	49	18	-17	2		28	1.31	-.06	.73	13	3.7	12	1+	11	1	
Bellevue Lock & Dam 12	24.1	.6	47	18+	-14	2		27	1.67	.37	.95	13	6.7	6	7+	7	1	
Cedar Rapids No. 1	21.8	-1.1	50	18	-14	2		27	1.52	.46	1.04	13	6.3	11	15+	6	1	1
Clinton No. 1	25.3	.8	53	18	-5	2		27	1.20	-.22	.50	13	6.2	6	6	9	1	
Davenport WB City	26.3	.9	53	18	-2	2		27	1.54	.15	.68	12	3.3	4	6+	8	2	
Iowa City AP CAA	20.4	-3.2	48	18	-15	2		28	1.32	.04	.47	12	3.8	11	6	8	2	
Le Claire Lock & Dam 14	25.6		49	18	-4	7		27	1.58	.18	.95	13	3.4	4	7	10	1	
Monmouth 4 SW	20.6	-1.9	46	18	-15	2		27					2.1	6	4+			
Muscatine No. 1	25.4	.4	51	18	-6	2		27	1.81	.46	.96	13	4.0	5	6+	9	1	
Tipton	24.0	.5	48	18	-11	2		28	2.39	1.14	.81	13		11	4+	8		
Vinton	20.0	-2.9	47	18+	-22	2		28					6.0	13	16			
Williamsburg	21.1	-2.7	47	18	-12	2		28	1.22	.02	.64	12	5.6	9	3+	5	1	
DIVISION	22.8	-.7							1.56	.31								
SOUTHWEST DISTRICT																		
Atlantic 1 E	19.3	-4.9	47	17	-12	2		28	1.25	.18	.87	13	9.5	8	13+	7	1	
Atlantic AP CAA	18.1	-6.1	44	18	-13	2		28	.72	-.35	.44	12	7.4	10	14+	5	1	
Bedford 1 N	22.5	-4.0	46	17+	-8	2		28	.60	-.60	.35	13	3.0			2	2	
Clarinda	22.9	-3.3	47	18	-6	2		28	.48	-.59	.45	13	4.7	8	1+	3	1	
Council Bluffs 5 NE	20.4		46	24	-13	2		28	1.16		.60	13	9.3	12	2	3	2	
Glenwood 2 E	21.0	-5.0	48	23	-15	2		28						10	1+	4		
Greenfield	20.5	-4.1	46	18	-10	2		28	1.42	.37			6.5					
Norwich 2 E SCS Farm	22.5	-3.7	48	17	-8	2		28	.61	-.49	.32	13	4.5	7	1+	4	1	
Oakland 2 E	19.6	-5.6	43	17	-15	2		28	1.02	.12	.58	13	7.2	7	14	5	1	
Red Oak	21.2	-5.0	46	17	-12	2		28	.85	-.25	.61	12	9.0	8	12+	4	1	
Shenandoah	23.8	-2.9	51	17	-8	2		28	.65	-.45	.53	13	3.3	6	1+	4	1	
DIVISION	21.1	-4.6							.88	-.19								
SOUTH CENTRAL DISTRICT																		
Afton	20.3	-5.6	45	17+	-13	2		28	.89	-.21	.57	13	2.0			3	1	
Albia	23.8	-1.8	50	18	-7	2		28	1.47	.21	1.08	13	5.3	8	4	5	1	1
Centerville	24.3	-2.5	49	18+	-6	2		27	1.60	.30	1.15	13				8	1	1
Chariton 3 E	22.6	-3.0	48	18	-14	2		27	1.24	.20			4.0	14	3+	4		
Creston	21.9	-3.5	44	17+	-8	2		27	.87	-.18	.71	13	3.0	8	14	3	1	
Indianola	22.4	-1.9	49	23	-12	2		28	.92	-.27	.78	13	2.5			4	1	
Knoxville	24.0	-1.8	48	17+	-10	2		28	1.03	-.20	.89	13		10	1+	4	1	
Lamoni	23.3	-3.2	46	17	-5	2		28	1.40	.20	.95	13	4.0	7	3+	8	1	
Millerton	22.9	-3.4	48	18	-8	2		28	1.96	.74	1.10	13	4.7	9	3+	7	2	1
Mount Ayr 2 N	22.7	-3.7	48	17	-7	2		28	1.11	-.10						2		
Osceola	22.7	-3.0	47	18	-7	2		28	.94	-.16	.76	13	3.4	6	1+	6	1	
Tingley	22.0	-3.8	46	17	-8	2		28	.47	-.68	.33	12	3.2	7	1+	3	1	
Winterset	23.0	-2.5	48	17	-8	2		28	.78	-.32	.78	13				1	1	
DIVISION	22.8	-3.0							1.13	-.04								
SOUTHEAST DISTRICT																		
Bloomfield 2 N	23.8	-3.7	48	18	-5	2		27	2.23	.83	1.28	13	5.1			6	2	1
Burlington WB Airport	25.3	-1.1	53	18	-2	4		28	1.78	.14	.92	12	4.2	5	6	8	2	
Columbus Junction	24.4	-1.0	52	18	-9	2		27	1.80	.42	1.17	13	3.0	8	6	6	1	1
Fairfield	23.8	-2.2	51	18	-8	2		28	1.40	.00	.49	13	6.9	6	6	5	2	
Keokuk Lock & Dam 19	29.1	.3	55	18	2	2		27	1.15	-.17	.60	21	1.5	3	1+	11	1	
Keokuk WB City	28.5	-.3	57	18	2	2		26	1.73	.41	.59	21	1.8	2	1+	8	2	
Keosauqua State Park	26.7	.2						27	1.39	.07	1.14	13				4	1	1
Mount Pleasant	25.1	-1.7	53	18	-5	2		27	1.56	.31	1.05	13	4.2	5	6+	6	1	1
Oskaloosa	23.1	-2.0	49	18	-9	2		28	1.57	.29	1.01	13	7.3	15	4+	7	1	1
Ottumwa 1 WSW	25.3	-1.7	53	18	-13	5		27	1.66	.27	1.25	13	3.7	8	3+	6	1	1
Ottumwa AP CAA	22.4	-4.6	48	18	-7	2		28	1.49	.10	.83	12	5.2	13	3+	8	1	
Sigourney	23.2	-2.0	49	18	-9	2		27	1.44	.17	.95	13	6.2	17	4	6	1	
Washington	23.4	-2.1	50	18	-9	2		27	1.84	.42	.92	13	4.0	11	6	9	1	
DIVISION	24.9	-1.5							1.62	.25								
STATE	19.6	-3.0							.87	-.22								

DAILY PRECIPITATION

IOWA
FEBRUARY 1949

Table 3

Station	Day of month																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Aiton			T									.22	.57	.10		T					T												.89
Akron		T												.05																		.10	
Albia	T		T	.18		T	T						1.08	T	.10			T				.07	T		.04							1.47	
Algona		.06	T	*	*	*							.08	.04	.04																	.28	
Allerton	R		*	*	*	.30						.86	.17	.05							.04	.10		.03	.03							1.57	
Allison																																.80	
Alta		T											.30	T	.10																	.11	
Alton		.50		.01		T	.05						.05		.05																	.85	
Ames 3 SW	Z		T	T		T	T					.21	.45	.13	.04						T	.08	T								.93		
Anamosa 1 NW			.10			.04							1.21	.05	.02	T						.21										1.83	
Atlantic 1 E		T	T	T						.03E			.87	.16	.05	T					T	.04	T		.06E							1.25E	
Atlantic AP CAA	E //		T	T		T	T					.44	.02	.21	T					T	.02	T	T	T	.01		.03	.04			.72		
Audubon 2 S			.01			T						.25	.68	.36	T						T	.03	T									1.39	
Augusta														.55											.57								
Bancroft		T	T																														
Bartlett 3 E						T						.19	.55	.20																		.84	
Bedford 1 W													.35	.25	T																	.80	
Belle Plaine	T	T	.01	T	T	.02		T				.23	.73	.05	.08	T					.01	.17	.01		.01							1.31	
Bellevue Lock & Dam 2	T			.12		T	.13						.95	.11	T	T									.16	T						1.67	
Blockton 2 S			T									.04	.95																			1.16	
Bloomfield 2 W			.10										1.28	.04	.20	.40									.21							2.23	
Boone		.04				T						.22	.40	.26	.05						T	.03	T	T			.03	.02				1.05	
Britt		*	.24							.12			.24	.08	.18												.06					.80	
Burlington WB Apt. Z //			.20			.13						.92	.27	.07	T	T					T	T	.16	T		.02		.01			1.78		
Carroll				T									.32	.04																		.36	
Cascade	Z		.10			.05							1.02	.08	.10									.24		T						1.87	
Chastana 4 E		.03										.04	.35																			.42	
Cedar Falls		T				T						.10	.76	.12	.11							.09										1.18	
Cedar Rapids No. 1	T		T	.09		T	.06						1.04	.13	.12							.19	T	T	T	T						1.52	
Cedar Rapids No. 2	T		T	.11		T	.04						1.08	.10	.01	T						.20	.01	T	T	T						1.55	
Centerville	Z		.08			.02						.12	1.15	*	.10	.03																1.80	
Chariton 3 E	Z		.20									*	.98	T																		1.24	
Charles City	Z	.03				T	.02					.11	.09	.12	.03						T	T	T	T	T		T	T				.44	
Cherokee	Z	.02	T			T							.05	T	.01																		.08
Clarinda													.45		.02										.01								.48
Clarion	T	T	T			T							.10	.01										.03	T							.14	
Clinton No. 1			.11	.02		.14						.03	.50	.10	.03	T							.19									1.20	
Clinton No. 2				.12		.03	.10						.55		.12																		1.16
Columbus Junction			.13			.24							1.17	.11	T								.13	.02								1.80	
Coon Rapids	R											.50	*	.33	.02							.02	.02									.99	
Council Bluffs 6 NE R												.65	.02	.21													.08	.01				.87	
Council Bluffs 5 NE		T											.80	.49														.07					1.16
Cresco		.18				T									.32																		.80
Crasston													.71	.04										.12									.87
Cushing 3 NE		.12											.10	T	.03																		.25
Dakota City	Z	.02				T							.20	T	.08																		.30
Davenport WB City	Z	T	.09	T		.17						.68	.29	.13	.02	T																	1.54
Decorah Dry Run		.01	.04										.17	.17																			.44
Decorah 2 S		.03											.22	.15																			.48
Delaware 2 W						T						.10	.48	.22	T																		.89
Denison 2 S												.40																					.40
Derby	R		.15									.82	.11	.05									.03	.05		.01							1.22
Des Moines WB Apt. Z	Z	T	T			T	.01					.74	.14	.08	T	T							.09	.01	T	T	T	T				1.07	
Des Moines WB City Z	Z	T	T			T	T					.74	.11	.12	T	T							.04	.05	T	T	T	T				1.06	
Dexter	R											*	*	*	.84								.04	.02									.80
Dubuque Lock & Dam 11	T		T	.07		T	.08						.97	T	.17	T								.13	.01		T					1.43	
Dubuque WB City	Z		.08	T		.06		T				.69	.32	.19	T	T							.13	T		.03						1.60	
Dumcat 4 NW		.01				T							.15	.04	.10									.01									.32
Dunbar 3 NE						.02							.19	.68	.09	.02								.13	T								1.13
Eddyville			T	.12			T						1.00	T	.05										.10								1.27
Elkader	T	T				T							.58	.03	.08																		.87
Emerson 5 NE												.08	.45	.34	T									.03									.82
Emmettsburg		.10E												.10E														.02					.22E
Estherville	T		.10			T							T	T	.05																		.17
Fairfield			T			.23						.45	.49	.10	T	T								.13									1.40
Fayette		.01	T			.03							.44	.06	.10																		.76
Fort Dodge	T	T	.02			T							.23	.06																			.35
Glenwood 2 E													.11	.41	.18																		.72
Glenwood 6 SE													*	.40	.30	T																	1.42
Greenfield	Z												.95	.29											.18								
Grinnell	Z											*	1.03	T	.07																		1.23
Grundy Center 5 NE		T	T			T						.28	.60	.10																			1.03
Guthrie Center			.03									.12	.85	.20	.03																		.88
Guttenberg Lock & Dam 10			T			.01																											

DAILY PRECIPITATION

IOWA
FEBRUARY 1949

Table 3-Continued

Station	Day of month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Mason City AP CAA	T	.01	T		T	.01		T	T	*		.04	.03	.04	T					T	T	.03		T	T		T	T					.16	
Marrill 5 W	T		.14									.15	1.10	.04	.02	T						.03			.48								1.96	
Millerston	T		.01									.41	.39	.13							T												1.08	
Missouri Valley	Z	.03	.01		T	T								.02	T						T													
Monmouth 4 SW	T		T	.05																														
Monona	R					.03						.24	.10	.12	.03																		.60	
Morse	R		.11			.10						*	*	*	.75							.03			.01	.09							1.24	
Morse 1 NE	R		.11			.05						.31	.18	.05								.04			.14								.98	
Morse 4 SSW	R					.09						.48	.25	.08	.01																		1.11	
Mount Ayr 2 N	Z											* 1.11																						
Mount Pleasant	Z		T	.04		.12						.23	1.05	.10	T							.02											1.56	
Noville	R	.03										.10																					.13	
Muscatine No. 1			.10	T		.19						.15	.96	.11	.03	T						.13	.04		.10							1.81		
Muscatine No. 2	T		T	.07			.16						1.16	T	.17					.02			.09	.03	T	.03	.03					1.76		
Muscatine 7 N	R		.09			.10																												
New Hampton						T							.90		.12																		1.02	
Newton			T	T		.03						.20	.71	T	T							.12	T									1.06		
North English	R																																0.00	
Northwood		.20E	.10E																														.39E	
Norwich 2 E SCS	Z		T									.21	.32	.02		T						.06		T								.61		
Oakland 2 E				T								.19	.58	.19																		1.02		
Oasis	R		.14			.05						.47	.29	.02	.01								.11	.04	.02	.08						1.23		
Oelwein		T	T			T						T	.55	.08																		.63		
Osawa			.02		T							.20	T																				.22	
Osage		.05E			T							.02	T	.15																			.22E	
Osceola			.04									T	.76	.02	.03	.01							.08	T		T						.94		
Oskalocua				.18			.04					1.01	T	.05	.02								T	.12	T		.15					1.57		
Ottumwa 1 WSW	Z		.08	T		.03						T	1.25	T	.03	T									.10	.17						1.86		
Ottumwa AP CAA			.14		T	.04						.83	.14	.07	T	.01									.09	T	.17					1.49		
Ottumwa	T		T	.12		.79						1.28	.03	.07					.03					.11	T	.20						2.63		
Perry 2 SE			.01									.08	.40	.30	.04																	.90		
Priarghar												.61	T	.20																		0.00		
Red Oak			T									.03	.01	.02																		.85		
Remsen	R											*	.54	.07E																		.06		
Riverton																																	.81E	
Rock Rapids		T	T		T							T	T	.04																		.04		
Rockwell City	Z	.02	T		T			T				T	.38	.03	.01																	.46		
Sac City		.04			T							T	.24	.02	T																	.32		
Saint Ansgar 2 WNW	R											.04	.01	.10	.02																			
Saint Charles	R											.62	.11	.04																			.87	
Sanborn		.03			T							*	.08	*	.03	*	*	*	*	*	*	*	*	.13								.06		
Shaffield	R											T	.01	.03	.01																	.21		
Sheldon		T	.03	T		T						.21	.09	.05	.02																		.08	
Shell Rock	R											.04	.53	.05																		.42		
Shenandoah			T																														.65	
Sibley		T			T							T	T	T	.07																	.07		
Sigourney													.95	.03	.09																		1.44	
Sioux Center	R			.13			T																									.03		
Sioux City 8 N		.17																															.17	
Sioux City WB Apt.	Z	T	.04	T	T	T	T					.09	T	.04																				
Sioux City 4 N																																	T	
Sioux Rapids		.05																															.05	
Sloan		T	.01									*	.08																				.09	
Sloan		.06										.33	.04																				.43	
Soldier	R											.07	.03	.12																			.38	
Spencer 1 N		.16			T	T						.06	.08	.08	.07																	.39		
Spillville	R		.03			.03						.07	.74	.07	T																	1.12		
State Center			T			T							.01	T	T																	.01		
Storm Lake 2 E			T			T							.57	.33	.02																		1.08	
Strawberry Point	R					.04						.33	*	.14																		.47		
Tingley				T	T																													
Tipton			T	T	.33	.22						.33	.81	T	T																		2.39	
Toledo		T	T		.01							.35	.78	.08	.07																		1.46	
Tracy		T											.84	.04																			1.11	
Trass				.10								.62	.18	.14	.03																		1.19	
Tripoli	R		T			T							.38	.16																			.70	
Van Meter						T							.84	.06	.08																		1.08	
Vinton																																		
Wallin 8 NE Red Oak	R											.63	.04	.17																			.84	
Washington	Z			.21			.12					.08	.92	.10	.09																		1.84	
Waterloo						T							.52	.05	.12																		.72	
Waukes					T	.02	.02					.10	.80	.08	.05																		1.22	
Waukon							T						.30																				.36	
Webster City	Z	.02										.03	.27	.03	T																	.42		
Wheatland	R			.12		.15						.56	.25	.1																				

HOURLY PRECIPITATION

IOWA
FEBRUARY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
Derby																									.03	.03
Des Moines WB Airport																					.03		.02	.04	.04	.09
Des Moines WB City																						.02	.01	.01	.04	.04
Dexter																					.02	.03			.05	.05
Greenfield																								.02	.02	.02
Grinnell																				.06	.02				.08	.08
Hamburg																								.01	.01	.01
Iowa City Ralston Creek 1																								.02	.02	.02
Iowa City Ralston Creek 2																								.01	.01	.01
Iowa City Ralston Creek 4																								.01	.01	.01
Iowa City Ralston Creek 5																						.01	.01	.02	.04	.08
Lamoni																					.02	.03	.04	.01	.10	.10
Lenox																							.06	.01	.07	.07
Marshalltown No. 2																								.03	.03	.03
Morse																								.04	.04	.04
Morse 1 NE																								.01	.01	.01
Mount Ayr 2 N																								*	*	*
Muscatine No. 1																					.02	.04			.06	.06
Norwich 2 E SCS Exp. Farm																						.01	.03	.04	.09	.09
Saint Charles																						.01	.02	.02	.04	.04
Traer																								.02	.02	.02
Webster City																								.02	.02	.04
-21st-																										
Allerton	.01	.03	.02	.01	*	*					.02	.01													.10	.10
Ames 3 SW	.01	*	*	*	*	*	.03																		.04	.04
Atlantic AP CAA	//	.01								.01															.16	.16
Burlington WB Airport	//	.01	.03	.04	.04	.03	.01																		.23	.23
Cascade		.02	.06	.06	.05	.03				.01											.01				.10	.10
Centerville		.04	.04	.01																					.04	.04
Charles City					.01	.02	.01																		.02	.02
Coon Rapids		.01			.01	.02	.01																		.02	.02
Dakota City			.01																						.12	.12
Davenport WB City		.01		.02	.03	.02	.01			.01	.01	.01									.01				.05	.05
Derby				.01			.01				.02	.01													.01	.01
Des Moines WB Airport				.01	.01																				.05	.05
Des Moines WB City		.01	.01	.01	.01	.01																			.02	.02
Dexter			.01	.01																					.13	.13
Dubuque WB City			.02	.07	.03	.01																			.08	.08
Grinnell	6	.06	.01	.01	*	*	*	.12	*	*	*	*	.06	*	*	*	*	*	*		.01				.08	.08
Iowa City AP CAA	6	.01	.01	.11	.02	.01					.01	.01	.01	.02	.02						.01				.24	.24
Iowa City Ralston Creek 1			.01	.05	.01						.01	.01	.03	.01	.01						.01				.15	.15
Iowa City Ralston Creek 2			.01	.06	.03																				.15	.15
Iowa City Ralston Creek 3			.01	.02	.05						.01	.01	.02	.02	.02	.01									.17	.17
Iowa City Ralston Creek 4			.01	.03	.07	.02	.01																		.14	.14
Iowa City Ralston Creek 5			.01	.12	.01	.16	.13	.15	.02																.59	.59
Keokuk WB City			.04	.01					.01	.01	.01	.01	.01	.01	.01									.14	.14	
Knoxville						.01	.01	.01	.01	.01	.01	.01	.01	.01	.01									.04	.04	
Lamoni			.01																						.01	.01
Lenox			.03	.03	*	*	*	*	*	*	.01				.02	.01	.01	.01		.01				.13	.13	
Marion 4 NE		.09	*	*	*	*	*	*	*	*	*	*	*	*	*	.07	*	*	*		.01				.16	.16
Marshalltown No. 2	6	.01	.03	.03	.01	.01																		.08	.08	
Mason City AP CAA	6	.01	.03	.03	.01	.01																		.15	.15	
Monona			.07	.02	.01										.01	.01	.01	.01	.01					.14	.14	
Morse				.08							.02	.02	.01	.01										.02	.02	
Morse 1 NE			.01	.01																				.12	.12	
Mount Ayr 2 N		.01	.04	.02	.02				.02	.01														.11	.11	
Mount Pleasant			.02	.04	.01										.01	.01					.01			.10	.10	
Oasis		.03	.04							.03														.10	.10	
Ottumwa 1 WSW	6		*	*	*	*	*	.08	*	*	*	*	.01											.01	.01	
Ottumwa AP CAA	6																							.01	.01	
Rockwell City		.01																						.01	.01	
Saint Charles																								.13	.13	
Sheffield		*	*	*	*	*	*	*	*	*	.08													.05	.05	
Shell Rock		*	*	*	*	.05	.01	.01	.01	.01														.04	.04	
Spillville					.01	.01	.01	.01																.12	.12	
Strawberry Point		.04	.01	.05	.01	.01																		.13	.13	
Traer		.04	.05	.01	.01	.01	.02																	.10	.10	
Washington			.02	.02	.01	.01	.01		.02					.01										.02	.02	
Webster City				.01	.01										.01									.15	.15	
Wheatland		.02	.03	.04	.01											.02	.01	.01								
-22d-																										
Bellevue Lock & Dam 12	6	.01	.02						*	*	*	*	*	*	*	.01								.03	.03	
Iowa City AP CAA	6															.01								.01	.01	
Iowa City Ralston Creek 2	6	*	*	*	*	*	*	*	*	*	*	*	.17								.03	.01			.17	.17
Muscatine No. 1																								.04	.04	
Oasis																								.03	.03	
Rockwell City		.01	.01			.01																		.03	.03	
-23d-																										
Allerton																								.03	.03	
Derby																								.01	.01	
Lamoni																					.01	.01	.01	.03	.03	
Marion 4 NE																								.01	.01	
Morse																								.01	.01	
Morse 1 NE																								.02	.02	
Mount Ayr 2 N																								.02	.02	
Oasis																								.04	.04	
Washington																								.01	.01	
Wheatland																								.02	.02	
-																										

HOURLY PRECIPITATION

IOWA
FEBRUARY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12															
Washington	.01	.03	.06	.04	.01	.01	.04	-26th-																									.20						
Wheatland	.01	.02	.03	.02																																		.08	
Ames 3 SW	-27th-																																				.02		
Atlantic AP CAA																																							.03
Coon Rapids																																							.04
Council Bluffs 6 NE																																							.08
Greenfield																																							.04
Iowa Falls 1 N																																							.02
Larrabee																																							.01
Marshalltown No. 2																																							.02
Missouri Valley																																							.09
Traer																																							.01
Woodbine 5 SE																											.03												
-28th-																																				.01			
Ames 3 SW			.01																								.01												
Burlington WB Airport																											.06												
Coon Rapids	.01	.01			.01				.03	.01																	.01												
Council Bluffs 6 NE	.01																									.01													
Greenfield	.01																									.01													
Marshalltown No. 2	.01																									.01													
Traer	.01		.01																							.02													
Morse 4 SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-													
Muscatine 7 N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-													



DAILY TEMPERATURES

IOWA
FEBRUARY 1946

Table 5

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Afton	MAX MIN	20 2	20 -13	23 12	22 -3	28 0	29 9	38 2	35 13	35 -2	31 -5	44 10	43 12	12 -1	6 -1	30 5	28 14	45 8	45 23	28 12	23 9	29 16	32 25	44 24	46 20	37 13	38 23	41 21	26 6	31.4 9.1		
Albia	MAX MIN	21 3	18 -7	30 16	21 -4	31 2	28 12	41 8	36 17	33 4	26 2	48 13	48 21	13 5	33 5	33 11	47 15	50 30	30 20	28 19	33 27	37 28	48 28	48 27	48 18	36 24	40 23	34 23	25 10	33.5 14.0		
Algona	MAX MIN	17 -2	7 -14	15 7	14 -10	25 0	25 7	35 -2	31 10	33 -2	25 -5	40 9	37 9	10 -2	11 0	27 5	22 5	40 7	37 15	21 9	20 5	31 18	34 24	41 25	48 20	39 11	30 22	33 17	33 3	20	28.9 6.8	
Allison	MAX MIN	20 0	10 -15	25 4	16 -12	18 -1	25 7	35 -3	28 4	32 -3	24 -3	40 5	35 14	20 -4	15 -4	33 0	20 5	44 2	48 18	34 19	25 11	34 16	42 23	48 23	42 16	31 12	36 19	31 12	22 3	29.8 6.0		
Alta	MAX MIN	16 -8	10 -16	15 5	11 -13	24 6	25 2	32 -2	28 4	33 -1	15 -8	38 11	35 8	9 -2	12 -4	28 4	23 4	40 9	37 11	19 5	22 2	28 16	30 24	40 23	37 20	30 12	34 24	37 18	25 4	26.2 5.6		
Alton	MAX MIN	23 0	10 -15	20 3	20 -14	24 6	26 0	34 -2	32 8	35 0	35 -7	40 12	36 12	14 0	15 -3	35 0	26 5	42 12	37 20	27 5	22 3	28 6	32 25	43 26	38 19	38 12	35 27	35 19	32 5	29.8 6.6		
Ames 3 SW	MAX MIN	22 -3	12 -15	24 11	18 -8	27 1	26 9	35 -1	29 13	34 -3	28 -1	40 10	35 15	11 -5	25 -3	29 1	40 -1	44 22	25 15	23 14	32 22	35 25	40 23	40 25	33 14	34 22	33 21	22 6	29.0 8.3			
Anamosa 1 NW	MAX MIN	18 1	13 -19	27 12	24 -2	25 -8	28 9	32 -3	35 13	28 -6	25 7	38 3	38 23	28 4	12 -4	31 7	30 6	42 1	45 33	35 27	32 25	33 25	37 29	40 23	44 25	33 18	45 17	33 18	20 6	31.1 10.4		
Atlantic 1 E	MAX MIN	20 -3	18 -12	27 13	22 -11	27 1	27 7	37 2	32 11	37 -2	29 -6	44 13	37 12	15 1	18 -4	23 -1	31 11	47 5	45 18	21 6	25 6	29 17	28 24	43 25	42 21	39 13	40 24	35 20	26 5	30.9 7.7		
Atlantic AP CAA	MAX MIN	13 -9	23 -13	25 1	20 -9	27 11	27 2	36 3	29 2	37 -1	19 -4	41 18	35 6	7 -4	13 1	28 -3	30 7	42 15	44 16	19 9	21 7	29 20	32 25	41 27	37 20	35 14	35 26	15 8	28.7 7.5			
Audubon 2 S	MAX MIN	18 -6	16 -15	22 8	13 -10	23 4	25 4	32 2	27 7	33 -2	24 -7	38 12	35 8	10 -2	23 -4	22 1	39 8	39 18	18 6	18 6	27 16	29 23	39 24	38 20	30 12	35 22	31 17	19 3	26.1 6.5			
Bancroft	MAX MIN	14 -4	9 -15	15 -6	9 -15	24 -4	21 -3	34 12	27 10	30 -3	24 -7	37 3	35 7	11 -4	10 -4	28 3	27 3	35 7	35 12	20 6	18 3	30 15	33 23	41 25	36 18	28 16	33 26	34 13	18 0	25.4 4.7		
Bedford 1 N	MAX MIN	20 5	19 -8	31 16	25 1	29 7	27 11	38 7	33 15	31 2	44 1	42 14	16 16	15 5	30 5	25 19	46 18	46 30	30 15	24 10	29 20	34 26	45 26	44 24	36 16	36 27	34 24	28 10	31.9 13.1			
Belle Plaine	MAX MIN	23 -2	12 -17	26 12	21 -4	27 -4	25 10	33 -2	35 15	29 -6	24 3	40 7	36 20	20 4	11 -1	33 7	30 8	44 3	49 31	32 20	28 22	33 27	37 29	40 24	44 26	32 14	33 20	32 20	21 6	30.4 10.4		
Bellevue Lock & Dam 12	MAX MIN	20 10	17 -14	28 13	28 4	25 -4	32 4	31 -7	40 17	29 -4	29 12	38 5	41 32	33 17	17 3	32 9	32 20	43 5	47 40	47 30	34 27	35 28	39 31	38 22	45 31	34 25	34 21	34 29	30 12	33.3 14.9		
Bloomfield 2 N	MAX MIN	21 2	20 -5	34 14	26 -3	30 -3	29 6	40 3	37 17	31 12	32 2	43 9	43 22	31 7	15 4	32 11	32 16	45 10	48 34	41 20	29 20	41 26	37 28	41 25	44 27	37 17	39 20	33 23	26 8	34.2 13.3		
Boone	MAX MIN	20 -3	12 -12	23 11	18 -8	28 1	26 9	37 5	30 11	36 -2	30 -2	44 12	38 10	14 -2	12 7	32 10	29 10	45 20	43 13	23 12	22 12	31 21	37 26	44 22	43 15	31 24	36 15	34 20	26 6	30.1 9.3		
Britt	MAX MIN	24 -4	4 -17	11 1	10 -17	24 -5	24 4	33 -7	34 9	29 -4	29 -8	35 6	37 10	12 -4	10 -6	22 -3	16 1	39 5	33 15	19 7	19 4	32 16	32 22	38 21	38 19	27 8	32 20	32 13	20 -2	25.5 3.7		
Burlington WB Airport	MAX MIN	23 4	26 0	35 23	24 -2	28 -1	32 9	36 4	41 16	32 8	27 16	42 17	43 28	31 10	19 9	36 16	46 14	53 15	32 31	32 26	36 31	37 28	46 27	44 27	36 21	39 26	34 18	25 11	34.5 16.1			
Carroll	MAX MIN	20 -5	12 -17	23 9	21 -11	26 5	27 7	35 2	30 14	36 -3	30 -6	42 11	38 8	18 -1	16 -6	28 5	28 9	43 10	41 16	22 9	22 6	31 18	33 25	44 25	37 13	38 12	38 23	34 20	24 7	29.9 7.3		
Cascade	MAX MIN	20 5	14 -21	28 11	24 -1	25 -8	30 0	32 -10	36 13	26 -8	27 7	38 0	37 26	36 6	13 -3	30 7	29 9	41 -3	45 35	35 30	31 26	33 26	40 29	38 18	45 27	35 21	34 18	32 21	21 8	31.3 10.3		
Castana 4 E	MAX MIN	20 -5	12 -14	18 12	12 -10	25 5	25 3	34 4	32 4	33 -1	28 -8	41 13	38 9	10 1	13 -3	32 5	29 11	42 11	40 18	18 5	20 5	27 17	31 22	41 25	37 17	32 12	37 25	33 20	25 8	28.0 7.5		
Cedar Rapids No. 1	MAX MIN	20 4	14 -14	28 13	23 -3	28 -4	29 10	36 -3	37 16	30 -2	26 6	42 5	38 23	25 5	12 -2	35 9	30 11	45 1	50 34	35 24	32 26	33 28	38 30	42 25	44 27	32 16	33 18	33 21	21 7	31.8 11.8		
Centerville	MAX MIN	22 2	19 -6	31 14	26 -4	30 -2	29 14	40 6	36 18	33 0	28 3	47 13	46 23	25 7	14 5	34 12	30 22	47 13	49 38	41 20	28 19	34 25	35 28	49 29	47 27	37 19	35 25	27 10	34.1 14.4			
Chariton 3 E	MAX MIN	20 -4	18 -14	29 15	24 -8	31 -2	26 14	38 6	35 20	33 2	30 2	45 11	45 21	21 5	12 4	31 10	30 22	47 5	48 33	33 18	26 18	31 23	37 27	47 27	47 18	36 20	33 24	27 10	32.8 12.4			
Charles City	MAX MIN	12 -11	14 -20	21 1	13 -10	25 -2	24 2	32 -4	28 2	28 -5	16 -2	38 8	32 10	13 -3	10 -3	27 1	26 3	42 2	42 17	20 16	21 18	27 26	32 25	43 22	35 17	34 13	33 21	33 10	27 4	26.5 5.8		
Cherokee	MAX MIN	12 -5	10 -17	15 3	11 -17	26 6	26 2	34 -1	28 2	32 -3	15 -9	41 13	33 10	10 -2	13 -4	28 5	24 4	41 10	37 20	21 5	21 3	27 17	32 24	43 24	35 19	34 11	33 24	30 16	27 4	26.4 5.9		
Clarinda	MAX MIN	20 3	22 -6	29 21	23 -2	29 7	30 9	37 6	34 15	37 2	32 1	43 16	40 16	17 6	15 5	32 5	30 17	43 13	47 27	28 18	23 11	30 23	34 28	46 27	44 28	39 18	38 29	35 24	27 12	32.3 13.5		
Clarion	MAX MIN	18 -4	8 -20	19 8	10 -15	27 -5	25 7	34 -6	29 10	34 -7	25 -6	39 7	34 11	12 -1	29 -4	21 0	42 6	42 3	20 17	21 11	32 8	35 21	40 24	38 23	32 20	33 10	33 24	18 2	27.2 5.8			
Clinton No. 1	MAX MIN	25 10	18 -5	31 16	20 5	28 -2	31 11	35 -3	42 16	32 4	25 12	40 10	45 30	18 6	36 12	34 17	45 9	53 38	39 30	34 28	35 29	37 30	40 26	45 30	39 26	36 24	33 25	25 12	34.0 16.6			
Columbus Junction	MAX MIN	22 3	19 -9	32 16	30 1	31 -7	31 10	38 -1	38 20	33 -1	29 6	44 6	43 25	31 8	17 6	35 14	30 10	47 5	52 38	46 25	34 27	35 30	37 26	45 29	47 29	33 19	36 23	36 21	23 10	34.8 13.9		
Council Bluffs 5 NE	MAX MIN	25 -9	16 -13	25 6	21 -12	28 4	24 6	37 -2	37 12	39 -5	37 -4	44 17	43 16	13 3	13 -3	34 0	32 16	45 10	45 26	25 8	25 7	29 16	34 25	43 26	46 21	32 13	35 25	31 24	21 10	32.1 8.7		
Cresco	MAX MIN	10 -7	8 -25	20 -5	16 -15	22 -8	24 8	30 -10	27 11	25 -10	25 -4	36 1	34 20	15 1	28 -10	20 -2	40 6	41 -1	31 28	28 12	30 17	38 16	40 26	36 20	35 25	35 10	31 18	21 0	27.4 5.0			
Creston	MAX MIN	19 2	19 -8	27 18	24 -2	26 6	24 5	37 5	34 16	37 2	32 -1	42 19	41 21	13 3	29 2	29 5	44 11	44 37	39 14	21 12	30 20	33 27	44 29	42 23	35 16	38 26	34 22	25 10	31.1 12.6			
Cushing 3 NE	MAX MIN	15 -9	10 -16	16 5	10 -14	24 6	24 -1	32 -1	27 2	30 -7	21 -10	36 9	34 8	8 -2	11 -7	27 4	24 7	38 10	36 15	18 5	20 4	29 18	30 24	42 19	40 12	32 24	34 19	26 6	25.9 5.5			
Dakota City	MAX MIN	16 -3																														

DAILY TEMPERATURES

IOWA
FEBRUARY 1949

Table 5-Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Delaware 2 W	MAX MIN	20 0	17 -20	24 5	17 -7	25 -5	28 5	30 -5	37 8	28 -9	26 5	44 0	44 22	11 -1	25 -7	26 2	38 -2	45 -5	33 32	29 26	30 26	33 26	37 20	37 20	32 14	33 17	30 14	23 4	29.4 7.4			
Denison 2 S	MAX MIN	20 -5	15 -20	24 12	17 -18	20 4	26 3	34 1	32 8	32 -5	29 -9	40 13	39 13	13 -3	16 -5	30 3	28 10	40 10	40 20	26 10	21 4	29 17	32 22	29 17	39 25	36 11	39 21	35 18	25 3	28.8 6.4		
Des Moines WB Airport	MAX MIN	14 -5	20 -10	25 9	15 -6	28 4	27 6	37 4	35 7	35 1	18 -1	44 15	40 10	10 1	12 1	30 7	32 11	45 11	44 20	24 17	25 16	30 26	34 26	46 28	44 24	35 16	38 25	32 16	23 8	30.1 10.2		
Des Moines WB City	MAX MIN	17 -3	20 -11	26 9	16 -4	30 4	27 7	37 3	34 10	37 2	18 1	45 13	41 10	10 3	12 3	30 10	34 9	47 9	47 20	26 17	26 16	32 26	37 28	48 29	45 25	34 18	38 25	34 17	23 10	31.1 10.9		
Dubuque Lock & Dam 11	MAX MIN	17 5	14 -20	25 9	26 -5	21 -9	28 7	30 -4	37 12	27 -5	23 8	35 6	35 29	15 5	28 3	27 15	38 -5	42 36	42 26	42 24	33 25	34 27	35 23	43 29	43 22	31 21	32 21	25 24	8	30.2 11.1		
Dubuque WB City	MAX MIN	18 -2	18 -12	28 18	20 3	26 -1	30 8	33 0	38 9	26 -1	26 8	38 6	38 25	14 3	31 1	29 9	43 8	49 4	36 36	29 28	33 26	30 27	38 28	40 25	45 27	46 24	36 23	37 18	21 10	31.6 12.8		
Elkader	MAX MIN	18 -11	8 -29	23 2	20 -10	22 -11	25 0	32 -12	36 11	25 -14	22 5	38 -5	38 24	12 2	33 -11	20 -1	42 5	48 -9	36 25	30 24	30 22	38 24	40 18	45 27	35 16	33 14	33 20	22 5	29.6 5.7			
Emmetsburg	MAX MIN	14 2	7 -15	14 2	14 -13	25 0	23 6	35 -5	26 12	35 -5	27 -7	39 9	31 9	11 -3	11 -5	31 4	25 4	43 7	36 15	21 7	18 3	30 15	34 25	41 23	27 22	31 11	34 23	34 17	20 3	26.3 5.9		
Estherville	MAX MIN	15 -7	6 -15	13 0	15 -12	25 5	25 3	33 -3	28 7	31 -4	22 -9	38 8	33 3	8 -5	13 -6	29 6	22 2	43 6	37 10	20 5	16 1	29 10	34 23	43 24	37 17	31 10	34 24	31 11	27 2	26.4 4.1		
Fairfield	MAX MIN	20 0	16 -8	32 15	26 0	30 -6	30 11	36 4	33 13	32 0	28 5	44 9	43 24	30 8	14 6	32 13	31 12	47 6	51 30	40 29	33 26	36 30	47 29	46 28	33 18	37 22	34 28	28 7	33.8 13.8			
Fayette	MAX MIN	18 1	8 -31	23 6	21 -11	22 -12	24 6	31 -13	30 14	26 -17	22 4	35 -4	34 22	14 4	30 -10	22 2	40 9	45 -7	36 34	30 22	30 21	38 24	37 22	41 21	34 26	33 13	32 12	19 18	4	28.5 6.4		
Fort Dodge	MAX MIN	13 -2	8 -19	19 8	12 -12	28 2	25 7	36 0	32 14	35 -1	28 -5	41 11	37 11	10 -1	13 -3	28 5	21 7	43 10	43 19	20 10	21 20	32 26	35 25	44 23	40 12	29 34	37 24	34 19	21 5	28.0 8.0		
Gleadow 2 E	MAX MIN	21 -6	20 -15	28 16	20 -11	28 7	28 11	38 5	35 15	38 0	32 -3	45 18	40 15	15 4	16 0	33 3	33 15	46 12	46 24	24 12	23 10	28 21	35 27	48 29	34 23	36 17	35 24	28 11	31.3 10.7			
Greenfield	MAX MIN	17 -4	22 -10	25 12	18 -4	28 4	27 10	36 4	32 11	36 1	36 -3	42 16	34 10	16 -1	11 5	30 9	43 12	46 25	34 12	21 11	32 18	34 25	43 26	43 22	34 17	36 24	35 21	24 6	30.9 10.0			
Grinnell	MAX MIN	21 -3	14 -15	26 11	24 -8	29 -1	25 9	36 0	34 12	31 -3	27 -2	41 6	42 16	20 1	11 -3	30 6	30 7	44 3	45 26	30 7	28 16	32 23	39 26	42 23	45 24	32 12	34 20	33 18	28 7	31.2 8.5		
Grundy Center 5 NE	MAX MIN	21 -3	8 -21	24 7	18 -11	27 -6	27 6	34 -5	30 12	29 -6	27 -3	38 2	36 14	12 -1	12 -5	27 -3	27 -2	41 -4	46 25	28 16	27 17	33 23	37 22	40 20	45 12	34 17	34 18	35 23	23 2	29.6 5.9		
Guthrie Center	MAX MIN	20 -1	13 -12	22 12	16 -7	27 5	27 9	37 7	32 12	35 1	29 -3	42 14	38 12	11 1	28 7	30 12	44 10	43 21	21 10	20 10	31 18	33 25	44 26	43 23	31 14	38 22	35 20	23 7	29.5 9.8			
Guttenberg Lock & Dam 10	MAX MIN	16 2	12 23	25 8	20 -4	24 -5	24 10	28 -4	40 12	27 -7	26 7	40 4	39 25	30 7	22 -8	32 3	30 7	44 -7	48 35	39 25	31 23	32 23	40 27	41 22	45 18	43 20	42 21	39 6	40	32.8 11.4		
Hampton	MAX MIN	11 0	5 -20	21 5	16 -11	27 -5	25 7	35 -3	30 15	33 -8	30 -3	39 5	38 15	15 3	10 -4	28 5	22 7	40 0	43 24	27 8	23 13	31 22	38 27	41 24	40 12	30 19	34 18	32 3	20	28.0 7.1		
Harlan	MAX MIN	22 -4	15 -16	23 15	15 -11	26 5	26 8	34 0	31 11	36 -2	30 -6	39 15	38 14	12 3	12 -4	28 -3	30 14	42 6	43 23	23 7	22 19	28 33	33 28	43 21	43 14	31 26	38 21	35 21	23 7	29.1 8.5		
Hawarden	MAX MIN	20 -4	19 -15	18 -1	15 -17	26 9	26 0	32 -1	30 0	34 0	19 12	38 12	16 10	14 0	16 -2	34 4	23 13	45 12	38 6	21 4	21 19	28 24	33 27	42 17	37 13	34 28	35 17	30 7	26	28.2 7.1		
Ida Grove 4 S	MAX MIN	17 -5	14 -16	19 9	13 -15	25 6	25 3	34 -2	32 7	35 -5	29 -10	40 13	36 10	12 0	14 -4	28 3	25 8	40 17	41 8	21 5	23 3	29 17	31 18	40 24	38 20	34 11	36 24	33 19	26 5	28.2 6.2		
Independence 2 W	MAX MIN	20 -2	8 -26	25 4	22 -12	27 -9	26 6	31 -11	31 10	31 -11	25 0	41 17	36 0	22 -10	11 -4	32 5	27 -7	44 28	46 18	35 18	32 20	32 25	37 15	42 22	41 9	32 14	36 17	33 0	22	30.3 4.8		
Indianola	MAX MIN	21 3	15 -12	26 14	22 -6	33 2	26 12	40 6	35 17	36 1	32 -1	48 13	42 18	20 1	12 0	33 9	32 18	47 10	48 28	24 17	33 16	38 21	49 27	44 26	36 16	39 23	35 23	28 8	32.9 11.9			
Inwood 2 W	MAX MIN	15 -9	9 -16	18 -5	8 -18	25 3	24 -2	32 -5	26 6	32 -3	13 -12	37 9	32 6	8 -2	17 -7	31 3	22 -1	45 11	35 12	21 3	20 1	27 15	30 22	41 25	32 15	31 11	36 24	30 10	25 3	25.8 3.5		
Iowa City AP CAA	MAX MIN	19 -5	17 -15	30 20	20 -12	27 -13	30 1	36 -12	35 4	30 -7	24 -1	42 5	40 23	15 4	33 3	28 8	43 3	48 2	34 30	33 24	34 27	36 22	43 22	44 17	35 24	35 17	33 21	20 9	31.9 8.9			
Iowa Falls 1 N	MAX MIN	22 -2	6 -20	22 4	18 -14	27 -4	25 5	37 -5	30 4	33 -6	19 -5	40 6	36 14	16 0	13 -4	30 4	24 2	42 -3	43 16	23 13	23 20	32 25	42 23	37 20	30 11	34 11	34 8	20 2	28.4 4.9			
Jefferson	MAX MIN	19 -1	12 -17	23 11	14 -10	28 3	27 7	36 0	32 11	36 -2	29 -5	41 13	37 11	11 0	27 -4	30 7	42 11	46 5	24 20	21 10	34 10	35 19	43 26	41 23	30 13	37 21	35 20	23 6	29.5 8.3			
Keokuk Lock & Dam 19	MAX MIN	27 13	26 2	35 22	35 10	31 5	34 12	37 12	43 18	34 15	47 11	48 29	33 17	21 11	35 18	34 25	49 21	55 38	52 29	34 26	39 32	40 31	48 30	49 31	36 21	40 28	37 25	29 14	37.9 20.2			
Keokuk WB City	MAX MIN	28 8	24 2	37 27	27 8	30 9	34 14	38 14	44 19	37 13	29 10	50 20	49 30	31 12	19 11	38 18	51 22	57 33	37 29	33 26	38 32	38 31	49 33	50 29	36 22	39 30	37 20	24 14	37.1 19.9			
Keosauqua State Park	MAX MIN	30 9	22 -7	33 16	30 3	30 -6																										
Knoxville	MAX MIN	23 1	16 -10	29 14	28 -3	33 0	30 15	40 5	40 18	38 0	30 2	46 12	44 20	15 4	35 4	31 10	48 9	48 32	34 19	30 18	33 24	41 28	48 21	48 27	43 18	40 24	29 23	10	35.1 12.9			
Lake City	MAX MIN	18 -5	11 -15	18 9	15 -13	26 4	25 5	35 2	30 8	35 -2	27 -9	42 11	37 9	10 -2	13 -5	28 4	25 6	43 7	40 16	21 8	22 18	24 20	33 22	44 22	39 11	32 21	38 18	22 5	28.1 6.5			
Lake Park	MAX MIN	20 -3	7 -16	12 -3	10 -19	22 4	25 0	33 -3	30 8	30 -5	27 -14	37 8	35 8	15 -7	29 -9	26 6	41 -1	47 11	37 2	15 -1	27 8	32 23	41 19	37 9	29 24	34 14	31 1	19	25.9 3.4			
Lamoni	MAX MIN	23 4	22 -5	31 21	25 -3	29 5	29 14	37 7	36 16	34 -2	29 12	44 22	43 19	13 5	31 4	30 8	46 20	45 18	32 15	25 22	30 26	33 30	45 25	45 17	35 26	37 25	35 10	29	32.6 13.9			
Le Claire Lock & Dam 14	MAX MIN	22 11	19 -3	31 18	30 6	26 -3	32 10	34 -4	40 21	30 5	30 10	40 11	43 29	33 15	17 7	34 14	44 17	49 10	41 39	34												

DAILY TEMPERATURES

IOWA
FEBRUARY 1949

Table S-Continued

Station	Day of month																															Average					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
Marshalltown No. 1	MAX MIN	20 -3	14 -21	25 12	16 -7	29 -6	28 9	38 -6	32 11	33 -10	26 0	43 7	39 16	17 -2	12 7	34 0	29 -7	45 26	48 18	28 17	25 24	35 27	38 24	43 25	42 13	32 20	34 19	33 19	21 5							30.7 7.8	
Mason City 3 N	MAX MIN	16 -10	8 -24	22 5	13 -14	25 -8	23 5	35 -7	27 6	32 -9	21 -5	36 6	33 11	12 -1	28 -3	20 -1	40 6	37 2	23 16	23 10	30 10	32 22	41 25	38 25	30 18	33 10	33 21	17 14	2							26.4 4.7	
Mason City AP CAA	MAX MIN	8 -17	11 -20	17 -2	10 -14	24 0	22 1	33 -8	27 -3	30 -9	14 -6	35 7	30 5	10 -5	26 -6	20 5	38 1	36 0	21 11	22 9	31 7	32 23	38 25	35 22	31 12	32 10	30 21	15 8	1							24.4 2.8	
Millerton	MAX MIN	23 1	21 -8	30 8	25 -5	31 -2	28 8	38 5	35 18	33 -1	28 0	45 10	45 20	22 4	13 4	28 11	30 21	47 13	48 30	35 18	25 18	31 24	35 27	44 27	46 26	39 23	38 24	34 24	28 9							33.0 12.8	
Missouri Valley	MAX MIN	19 -3	17 -11	25 11	18 -13	28 9	28 4	39 4	35 10	39 6	27 -5	45 17	41 11	13 1	19 -1	35 7	30 10	46 15	43 22	22 5	30 20	38 24	43 30	40 20	36 14	40 27	33 23	28 10								31.5 10.0	
Monmouth 4 SW	MAX MIN	18 3	18 -15	26 8	26 -2	22 -6	20 6	27 -6	31 17	26 -7	25 5	38 0	39 21	26 9	12 5	30 7	24 20	41 17	35 29	27 12	33 22	34 25	38 27	37 22	43 26	34 20	33 20	32 21	24 6							30.1 11.0	
Mount Ayr 2 N	MAX MIN	20 6	24 -7	29 9	24 -3	30 5	29 12	38 8	36 17	35 2	30 -1	44 9	44 19	20 5	12 5	32 7	29 19	48 17	46 29	28 12	31 22	39 25	45 27	40 17	35 17	37 17	35 27	26 10								32.5 12.8	
Mount Pleasant	MAX MIN	23 5	20 -5	32 17	29 2	29 14	31 1	38 21	41 2	32 7	28 12	43 25	43 9	31 7	20 14	34 17	30 9	47 37	53 25	44 24	32 30	35 29	37 26	47 28	44 18	36 25	39 23	34 10								34.9 15.3	
Muscatine No. 1	MAX MIN	24 9	19 -6	30 15	24 4	28 0	31 15	38 1	39 20	31 4	28 9	42 10	43 29	32 14	17 6	34 14	30 18	48 9	51 38	43 27	34 28	34 30	39 31	43 28	47 30	35 21	36 25	35 23	26 10								34.3 16.5
New Hampton	MAX MIN	15 -10	10 -27	12 5	13 -17	22 -12	23 -3	29 -12	28 3	25 -13	21 -3	36 -2	33 13	17 -4	13 -11	25 0	15 -3	38 -9	43 29	30 13	26 14	30 19	35 22	37 16	39 18	32 8	31 15	17 12	-2								25.9 2.1
Newton	MAX MIN	20 2	13 -11	27 13	20 -6	29 3	26 11	36 5	32 15	33 2	27 1	43 11	37 18	18 2	11 -1	30 9	25 12	45 11	48 27	28 19	25 17	32 23	35 27	44 26	44 26	32 15	35 24	33 22	23 7								30.4 11.8
Northwood	MAX MIN	22 -2	4 -17	19 3	15 -13	23 -5	23 8	32 -8	28 8	30 -7	29 -5	35 4	33 12	13 0	10 -4	22 4	18 4	37 3	36 19	21 9	21 10	30 20	31 25	39 20	36 20	28 9	31 20	17 15	0								25.5 5.4
Norwich 2 E SCS Exp. Farm	MAX MIN	22 6	19 -8	28 16	24 -3	28 7	30 9	37 6	36 14	38 3	35 0	44 16	42 17	18 5	14 3	33 4	31 18	48 15	43 15	28 9	22 17	28 20	34 26	47 24	46 17	37 28	37 23	24 11									30.0 12.4
Oakland 2 E	MAX MIN	24 0	15 -15	25 14	18 -10	27 5	27 8	35 3	33 13	36 -4	32 -4	41 15	39 14	15 -3	13 -3	29 1	30 15	43 8	42 19	25 8	21 7	28 19	32 26	41 27	41 21	32 14	37 25	22 8									30.0 9.2
Osceola	MAX MIN	19 -1	10 -20	23 10	18 -8	23 -5	24 -3	32 -5	30 11	27 -6	22 4	37 20	35 1	20 -8	12 4	29 8	22 -1	40 30	45 23	32 22	28 25	30 25	35 22	40 22	42 25	30 14	33 20	17 17	5								28.1 8.4
Onawa	MAX MIN	16 -7	14 -17	17 7	14 -19	27 5	27 0	36 2	32 4	37 -1	27 -12	43 15	38 8	9 1	15 -3	33 0	27 7	42 11	39 18	20 5	22 5	28 18	33 22	41 25	38 17	35 13	36 26	32 20	27 9								28.8 6.4
Osage	MAX MIN	22 -2	6 -22	20 2	19 -12	22 -8	22 10	31 -8	31 12	27 -9	27 -1	35 4	35 16	20 -8	10 -1	25 4	25 -1	38 -1	40 4	29 26	24 10	29 14	34 21	37 26	36 21	28 10	31 20	31 18	22 1								27.0 6.0
Osceola	MAX MIN	22 3	21 -7	28 16	23 -3	30 4	28 13	37 8	35 17	36 3	31 0	44 14	43 17	19 3	13 3	33 9	31 18	46 14	47 25	25 16	24 16	31 22	35 26	45 27	46 25	36 17	39 26	31 22	26 9								32.3 13.0
Oskaloosa	MAX MIN	17 3	17 -9	29 17	21 -5	29 -6	27 12	38 4	34 17	34 0	27 4	45 13	45 22	22 7	14 4	35 12	32 14	47 9	49 31	31 22	30 22	34 29	38 29	47 27	47 29	33 16	36 24	32 22	24 10								32.6 13.5
Ottumwa 1 WSW	MAX MIN	24 4	19 -6	30 13	28 -3	33 -13	29 17	40 4	38 22	38 -5	33 5	48 12	46 24	25 10	15 6	39 13	34 23	52 8	53 41	47 23	29 22	35 28	40 29	50 26	48 29	30 19	39 22	24 12									35.9 14.6
Ottumwa AP CAA	MAX MIN	22 -2	20 -7	29 12	14 -5	28 -2	28 6	36 3	36 10	33 2	23 4	43 14	42 20	13 6	32 5	33 13	46 10	48 12	29 28	30 22	34 22	37 30	45 27	47 29	33 18	38 25	33 17	24 10									32.0 12.7
Perry 2 SE	MAX MIN	21 -4	11 -15	23 11	16 -8	28 2	26 9	36 -2	31 13	36 -1	29 -2	47 13	36 15	12 -5	30 4	30 5	42 -1	45 5	25 -1	21 22	32 13	37 13	46 19	41 26	35 24	41 24	37 15	24 21	8								30.3 8.7
Pringhar	MAX MIN	21 2	8 -15	14 1	13 -16	22 3	22 0	34 2	30 0	32 7	27 -2	40 -11	34 10	10 9	13 -5	30 3	30 0	41 10	39 15	20 3	22 0	28 12	38 22	43 23	41 17	32 10	34 23	36 15	27 3								28.9 4.9
Red Oak	MAX MIN	17 -5	25 -12	27 12	28 -5	28 2	28 5	37 7	33 11	39 1	24 -1	43 18	41 12	13 3	17 3	33 2	30 11	46 12	45 22	23 15	23 10	29 22	32 27	45 29	44 23	37 17	38 27	34 24	26 11								31.6 10.8
Rock Rapids	MAX MIN	15 -3	9 -17	14 -3	9 -18	24 7	25 0	33 -5	25 8	31 -3	16 -9	38 11	32 7	7 -1	18 -3	30 1	22 2	45 12	34 11	18 5	21 2	28 15	32 25	41 25	34 18	32 12	34 27	30 17	26 5								25.8 5.3
Rockwell City	MAX MIN	16 -4	9 -16	18 9	14 -13	26 4	25 5	35 -2	27 9	35 -4	25 -6	40 11	36 10	10 -1	13 -4	28 4	25 7	40 3	43 18	22 9	20 7	31 18	33 22	42 22	37 22	30 12	37 22	34 18	23 5								27.6 6.8
Sac City	MAX MIN	20 -3	9 -16	17 8	16 -11	25 6	25 5	35 0	30 10	35 -3	28 -6	42 12	35 9	13 -1	30 -3	26 6	43 8	38 8	20 17	22 8	30 4	32 19	38 24	38 22	36 13	37 24	32 19	6									28.1 7.5
Sanborn	MAX MIN	18 -7	7 -17	10 0	10 -14	23 2	25 -1	32 -4	27 6	30 -3	25 -12	38 8	33 4	7 -6	14 -5	29 -1	42 9	35 5	18 1	20 -1	27 10	32 22	42 16	42 8	35 16	32 8	34 22	30 13	24 1								25.7 2.8
Sheldon	MAX MIN	16 -6	7 -17	15 3	10 -16	24 4	24 0	32 -5	25 6	30 -5	14 -11	38 9	33 6	6 -3	14 -6	29 2	19 3	42 10	35 11	18 4	20 2	27 14	32 24	42 25	35 18	32 12	34 26	30 17	25 4								25.3 4.7
Shenandoah	MAX MIN	20 5	20 -8	28 18	22 5	30 10	28 6	40 9	34 15	42 4	27 -1	47 18	40 17	18 6	18 4	38 7	31 19	51 19	48 28	29 16	23 10	30 22	37 28	49 30	46 26	39 17	40 29	28 12									33.7 13.8
Sibley	MAX MIN	24 -4	7 -24	14 -1	13 -20	23 4	25 -2	32 -11	32 7	29 -8	26 -15	38 7	36 7	7 -7	17 -8	29 -2	42 0	39 5	17 15	17 2	27 -1	32 10	43 25	38 17	32 10	33 23	32 15	25 1									27.0 2.5
Sigourney	MAX MIN	25 6	16 -9	28 16	24 -4	29 -5	28 12	37 5	36 16	32 0	27 4	44 10	42 23	24 7	13 4	35 12	32 13	47 11	49 33	33 22	30 23	34 29	37 29	44 26	46 28	32 16	36 23	33 23	23 9								32.7 13.6
Sioux City WB Airport	MAX MIN	7 -15	15 -17	16 -6	13 -17	27 10	14 -2	34 -2	23 -5	34 -4	18 -9	39 18	28 6	8 -2	14 -4	32 -1	24 8	44																			

REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

IOWA -- W.B.O., Washington, D.C. -- 1350 -- 5-20-49

CLIMATOLOGICAL DATA

1971

1971

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

MARCH 1949

Volume LX No. 3



IOWA, - MARCH, 1949

C. E. Lamoureux, Section Director - Des Moines

GENERAL SUMMARY

The weather during the month of March was highly satisfactory in reducing the winter's snow cover and in allowing the excessive moisture to run off without serious flooding. This situation resulted from a favorable temperature distribution during the month - - that is, short periods of warm weather accompanied by freezing temperatures at night. For the month, temperatures averaged 34.5° or 1.2 below normal while precipitation averaged 2.44 inches which was 0.75 inch above normal.

At the beginning of March, a combination of rather heavy ice cover in the river channels and a heavy snow cover over much of the State constituted a potential threat of serious flooding.

A rising temperature trend during the first week was culminated on the 4th when afternoon temperatures reached into the 50's and even the low 60's. This mild spell caused a rapid rise on rivers and streams and, in combination with local ice jams, many rivers were spilling over their banks. The most serious flooding was at Missouri Valley where river levees on the Boyer River broke and water covered portions of the business district and about 350 homes in the southern part of the town. The flood waters reached their peak on the 5th and for several days, the people of Missouri Valley were without gas, heat or a normal drinking water supply. Sewer lines were also clogged with the flood water. Power and telephone lines were the only utilities that remained in service during the flood. One person was drowned at Missouri Valley from the flood waters and upstream, at Denison, a boy lost his life when he fell in a swollen creek south of Denison. It was believed that this was the worst flood in Missouri Valley in the past 52 years. Railway traffic in and out of town was halted and several miles of track were washed out. Highways No. 30 and No. 75 were under water for two days.

At the same time, both the East and West Nishnabotna were at flood stages and at some points they spread into the farm lowland areas and finally cutting off some highways in southwest Iowa. The bridge over the West Nishnabotna on Highway No. 34 went out on March 5th. However, at Red Oak, the river remained within its banks. At Audubon, a bridge was partially washed out by an ice jam.

Ice jams or sudden breakup of the ice on the Raccoon and Des Moines Rivers also caused some local overflow and flooding. The ice gorge south of Eddyville which had caused flood stages at Eddyville since February 24th, began moving downstream on the 5th. However, the release of ice and water upstream kept the river at flood stage until the 12th. The breakup of the ice on the rivers was not simultaneous but instead at scattered points beginning on the 4th. This caused formation of numerous gorges which built up a head of water upstream and caused numerous local overflows.

On the Skunk River, the water overflowed its banks into farmlands in local areas from Ames downstream to its mouth. Similar flooding occurred on the Cedar and Iowa Rivers. A state of emergency was declared at Cedar Falls and authorities took steps to evacuate the people on low ground. Outside of the property losses at Missouri Valley and Eddyville, most of the damage was confined to eroded highways, damage to culverts and bridges and overflows on farm land.

The change to much cooler weather which began on the 6th, lasted rather consistently until the 20th. During this period, night time readings fell far below freezing on many nights and on the morning of the 15th, even sub-zero temperatures were reported in some northwest localities. The State low for the month occurred on this date at Inwood in Lyon county with a reading of -6°. Also, daytime temperatures did not reach above freezing on 3 to 6 days during this period. This period was also marked by persistent cloudiness with heavy clouds and overcast conditions on as many as ten days during this 14 day period. Precipitation occurred frequently during this period but amounts were very light; the most significant falls occurred on the 8th, 9th, 16th and the 19th.

The last ten days of the month were generally mild and wet. Scarcely a day passed without some precipitation in some quadrant of the State. However, the most appreciable amounts fell on the 21st-22nd, 26th and 30th-31st. The first rain and hail storm of the year occurred on the 24th in northern Iowa. At Grafton, 15 miles northeast of Mason City, a windstorm struck two farms destroying a large barn, several smaller buildings and killed a number of head of livestock. At Woolstock, north of Webster City, the winds tore a roof off one house, blew out plate glass windows in some stores and downed many utility wires. Other sections in the northern part of the State reported either high winds or light hail on that date. The warmest days for the month occurred on the 20th, 24th and 28th, (the 29th in extreme southeast Iowa) when the readings rose into the 60's and reached a high of 76° at Burlington on the 29th. -- MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
MARCH 1949

Station	Sea level pressure extremes—_inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	
Burlington WB Airport	30.55	15	29.41	27	11.6	38	W	27	79	82	64	70	49	851
Charles City WB City	30.54	15	29.30	27	7.8	28	SW	24					39	1031
Davenport WB City	30.52	15	29.39	27										842
Des Moines WB City	30.57a	15	29.34a	27	11.1	38	S	24	81a	85a	71a	72a	33	892
Dubuque WB City	30.51	15	29.32	27	6.8	21	SE	24	70	76	66	65	46	921
Sioux City WB Airport	30.61	15	29.26	24	11.5	43	E	30	87	88	74	77	39	984

a--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	34.0	72	-18	1.42			1903	38.8	82	6	1.38	3.9	7	1933	36.0	77	-3	3.09	9.2	8
1874	31.7	68	-4	1.43			1904	34.8	78	3	2.18	4.4	7	1934	34.4	81	-13	1.09	6.0	6
1875	26.9	80	-10	1.62			1905	41.5	84	1	2.04	4.1	7	1935	40.7	85	-2	1.47	5.5	8
1876	27.2	75	-6	3.24			1906	27.1	65	-14	2.34	8.9	10	1936	39.2	80	-1	1.02	2.3	5
1877	27.3	72	-14	2.28			1907	40.6	92	-7	1.35	4.1	6	1937	32.9	76	-2	1.63	4.4	7
1878	45.6	80	-20	3.36			1908	37.9	85	-8	1.58	1.1	6	1938	43.7	89	0	2.35	1.2	9
1879	37.2	80	-3	1.18			1909	32.5	71	-15	1.53	9.8	6	1939	36.4	86	-9	1.79	7.1	6
1880	33.6	80	-21	1.26			1910	48.9	92	-10	0.17	T	1	1940	31.6	79	-2	1.72	10.1	10
1881	27.1	56	0	1.91			1911	39.4	83	2	0.93	1.9	5	1941	33.5	71	-10	0.99	6.8	6
1882	36.3	78	4	1.82			1912	24.9	70	-19	2.01	19.1	7	1942	38.3	77	5	1.96	2.5	9
1883	30.6	72	-13	0.55			1913	31.9	78	-23	2.48	5.3	9	1943	31.0	90	-19	1.51	9.8	6
1884	32.0	72	-16	2.57			1914	34.7	78	-5	1.69	1.8	7	1944	30.3	67	-7	2.58	11.9	12
1885	31.3	65	-16	0.24			1915	29.3	61	-5	0.96	8.8	5	1945	45.3	85	-11	2.88	2.5	8
1886	30.6	74	-9	1.72			1916	35.2	80	-18	1.57	2.9	6	1946	47.0	89	-7	4.18	6.0	12
1887	33.5	76	-8	0.93			1917	34.6	85	-12	1.84	6.2	6	1947	31.8	79	-2	1.38	3.4	7
1888	26.4	78	-12	3.04			1918	42.9	85	0	0.63	2.6	3	1948	32.5	77	-30	2.64	13.9	7
1889	39.7	80	8	0.47			1919	37.5	78	-11	2.33	1.1	6	1949	34.5	76	-6	2.44	1.7	9
1890	28.1	75	-24	1.49			1920	38.0	80	-21	3.02	2.4	7	Period	34.7	94	-30	1.79	5.6	7
1891	26.8	66	-19	2.60		10	1921	42.8	86	4	1.57	0.2	7							
1892	31.9	84	-6	2.22	3.9	6	1922	38.3	74	-5	1.97	3.4	7							
1893	31.8	84	-8	2.14	4.0	8	1923	29.4	78	-22	2.87	18.5	7							
1894	41.0	84	-5	2.03	2.7	6	1924	31.9	72	3	2.65	10.5	8							
1895	34.4	94	-11	0.83	2.9	4	1925	40.1	82	-6	0.93	2.9	4							
1896	30.9	81	-12	1.10	5.4	5	1926	32.1	78	-4	1.06	8.1	6							
1897	32.0	72	-22	2.39	5.5	8	1927	39.6	75	0	1.92	2.9	9							
1898	37.5	72	-2	1.94	3.7	6	1928	38.9	88	1	1.44	3.0	5							
1899	23.0	75	-16	1.62	8.0	6	1929	39.1	83	-5	1.44	3.5	5							
1900	30.7	81	-13	2.06	6.6	5	1930	37.3	80	-4	0.89	1.3	5							
1901	34.2	76	-8	2.64	12.6	7	1931	34.9	64	5	1.68	10.3	6							
1902	39.1	79	-12	1.45	1.3	7	1932	28.4	77	-8	1.46	10.2	7							

See reference notes following Station Index

CLIMATOLOGICAL DATA

IOWA
MARCH 1949

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DISTRICT																		
Alta	32.1	-1.1	61	24		15		26	1.88	.42	.30	24+	3.5	1	15+	13	5	
Alton	33.9	.7	62	24	-1	15		26	2.87	1.58	.45	24+	6.3	3	19	12	7	
Cherokee	32.0	-1.6	61	24	-2	15		26	2.96	1.66	1.03	31	3.5	T	1+	12	3	
Emmetsburg	32.0		58	24	4	15		24	2.78		.50	30	3.0	1	16+	10	6	
Estherville	31.0	-.3	58	20	2	15		26	2.74	1.40	.77	31	3.9	2	1+	11	4	
Hawarden	33.2	-1.2	62	24		15		24	3.30	2.05	.97	30	3.0	1	1	10	5	
Inwood 2 W	30.9	-2.2	56	20+	-6	15		30	3.85	2.61	1.19	27	11.1	4	31	11	6	
Lake Park	30.5	-.5	56	20	-2	15		25	2.47	1.17	.38	26	6.0	T	1+	9	4	
Le Mars	32.9	-1.8	62	24	-2	15		25	3.73	2.47	.84	30	4.0	1	19	10	8	
Milford 4 NW	29.9	-1.6	56	20		15		27	2.36	1.06	.53	30	5.7	1	1+	9	5	
Primghar	32.3	.3	59	24+	-3	15		28	2.04	.74	.66	30	2.5	1	16	9	2	
Rock Rapids	31.7	-.8	59	24	-1	15		24	4.42	3.09	1.38	30	15.8	6	31	12	5	
Sanborn	29.8	-1.7	57	24	-4	15		30	3.16	1.86	.90	30	7.0	3	31	13	6	
Sheldon	31.4	-.5	59	24	-2	15		26	2.55	1.25	.74	30	6.0	1	14+	12	3	
Sibley	31.1	.3	57	20	-3	15		29	3.39	2.14	.85	30	6.6	3	31	12	6	
Sioux Rapids	31.1	-1.9	61	24	1	15		27	1.99	.64	.53	30	4.0	2	15	9	5	
Spencer 1 N	30.4	-1.5	63	24	1	15		28	1.58	.25	.40	24	3.0	2	31	12	2	
Storm Lake 2 E	31.4	-2.0	60	24		15		27	1.86	.58	.42	24	2.5	T	1+	9	2	
DIVISION	31.5	-1.2							2.77	1.46								
NORTH CENTRAL DISTRICT																		
Algona	32.2	-.9	58	20	4	15		23	2.65	1.26	.45	26+	5.2	3	1+	10	4	
Allison	32.9	-.6	61	24	2	1		21	1.98	.18	.51	31		2	16	10	2	
Bancroft	30.7 M	-.8			3	15			2.25	.85			3.0	3	30+	4		
Britt	30.1	-2.5	56	20+		15		28	4.16	2.88	1.16	21	4.0	3	31	10	5	
Charles City	31.8	-.5	60	24	5	1		22	2.45	.58	.47	26	1.6	1	1+	8	6	
Clarion	31.4	-2.3	60	20	3	15+		25	3.02	1.52	.55	22	1.0	7	1	9	5	
Dakota City	32.4	-1.8	60	20+	5	15		22	2.52	1.12	.47	26	4.0	1	1+	10	5	
Hampton	33.1	-.9	61	24+	3	1		23	3.01	1.16	.97	26	2.0	1	16	9	4	
Mason City 3 N	31.2	-1.0	57	20	4	15		24	2.64	1.16	.66	22	3.5	1	31	8	4	
Mason City AP CAA	29.9	-2.3	56	20	4	1+		26	3.01	1.53	.72	26	2.9	2	1+	8	5	
Northwood	30.5 M	-.8	55	20+	2	1		25	2.50	.64	1.06	27	T			8		
Osage	31.6	-.2	57	25		15		23	3.08	1.23	.70	22	.6	T	31	7	5	
DIVISION	31.5	-1.2							2.77	1.18								
NORTHEAST DISTRICT																		
Cascade	34.2		66	24	2	1		20	2.30				1.3	3	1+	8		
Cresco	31.4	1.4	58	28	-1	1		24	3.76	1.91	.94	31	T			8	7	
Decorah Dry Run	33.1		62	25	1	1		22	1.81		.65	22	T	2	1	7	3	
Decorah 2 S	31.2	.2	60	24	3	1		23	2.50	.60			T	3	1+	7		
Delaware 2 W	32.3	-.6	63	24+	1	1		24	2.64	.84	.82	22	.2	5	1	7	3	
Dubuque L & D 11	33.8	-1.3	62	24+	5	1		22	1.80	-.21	.66	27	.3	2	1+	6	3	
Dubuque WB City	35.2	.1	66	24	8	15		19	2.25	.24	.86	26	.5	2	1+	9	3	
Elkader	32.1	-.5	64	24		1		24	2.72	.88	.96	22	.2			8	3	
Fayette	31.9	-1.0	62	24	-4	1		24	2.05	-.05	.48	31	1.0	4	1	9	4	
Guttenberg L & D 10	34.4	-.6	63	24	3	1		22	2.01	.16	.67	27		1	1	7	3	
Independence 2 W	32.9	-1.5	64	24	-3	1		23	2.45	.90	.75	22	.5	1	1+	9	4	
New Hampton	29.2	-3.1	58	24	-3	1		29	2.18	.29	.56	24	.5			9	5	
Oelwein	32.9	-.8	63	28	1	1		20										
Tripoli	33.8		63	24	1	1		21	2.55		.90	31	1.0	1	16	8	4	
Waterloo	32.4	-2.3	65	24	4	1		22	1.85	-.01	.55	22+	.7	5	1+	6	3	
Waukon	29.6	-1.7	60	24	-1	15		29	3.54	1.69	.89	22	T	4	1	6	5	
DIVISION	32.5	-.5							2.43	.58								
WEST CENTRAL DISTRICT																		
Audubon 2 S	32.1	-3.5	64	28		15		24	2.40	.97	.62	21	1.0	5	1	13	5	
Carroll	34.1	-1.0	65	28	3	15		21	1.88	.49	.65	21+	T			5	3	
Castana 4 E	33.3		64	20	2	15		24	2.08		.62	21	2.6	1	14+	9	3	
Cushing 3 NE	32.6	-2.1	61	20	-2	15		24	2.26	1.01	1.13	24	3.7	1	1+	14	3	
Denison 2 S	33.0	-2.9	63	24	1	15		26	1.76	.62	.64	25	T			10	3	
Guthrie Center	34.9	-1.7	67	28	5	15		21	2.49	1.00	.84	31	2.0	2	1	10	4	
Harlan	34.9	-2.5	65	24+	4	15		23	1.74	.51	.55	22	1.5	2	1	8	3	
Ida Grove 4 S	33.6	-1.5	61	20+	1	15		23	1.39	.14	.35	30	2.0	1	19	9	2	
Jefferson	34.4	-1.6	65	24	4	15		22	2.22	.62	.51	22	.2	4	1	8	5	
Lake City	33.4	-1.6	63	24	2	15		22	3.03	1.57	.58	26	T	T	10	10	7	
Logan	34.5	-3.3	67	24	3	15		24	1.44	.16	.53	30	4.5	1	8	10	3	
Mapleton 5 NW	33.7	-2.3	64	20	1	15		25	1.67	.47	.53	24	1.5	1	19	7	3	
Missouri Valley	36.9	-.9	71	28	5	15		21	1.33	.08	.31	30	1.4	T	1+	10	2	
Onawa	34.6	-2.6	66	24	2	15		26	1.51	.16	.57	21	2.3	T	14+	8	2	
Rockwell City	33.1	-1.8	62	24	4	15		24	2.16	.62	.59	22	3.2	2	1	9	3	
Sac City	33.8	-.7	63	24	2	15		21	1.72	.47	.46	26	2.7	T	1+	9	3	
Sioux City WB Airport	33.2	-.9	66	24	1	15		24	1.70	.50	.51	30	3.0	2	1+	9	2	
DIVISION	33.9	-2.1							1.93	.59								
CENTRAL DISTRICT																		
Ames 3 SW	34.4	-1.5	64	24+	6	1		21	2.21	.78	.60	31	T	1	1	9	3	
Boone	34.8	-1.7	65	24+	8	15		20	2.57	1.07	.62	26	3.8	T	1+	10	4	
Des Moines WB Airport	35.5	-1.0	69	24	9	15		20	2.38	.60	.86	26	.7	T	1+	8	3	
Des Moines WB City	36.2	-1.3	69	24	11	15		20	2.53	.75	.69	26	.5	T	1+	7	4	
Fort Dodge	33.0	-1.1	62	20+	5	15		23	1.79	.25	.64	22	2.0	3	1	7	3	

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
MARCH 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	0.1 or more	.25 or more	1.00 or more
Grinnell	34.5	-2.1	69	24	3	1		22	2.31	.52	1.18	22	.7	T	1+	6	3	1
Grundy Center 5 NE	33.7	-.2	66	25	1	1		23	1.42	.46	.87	30	.5	T	16	6	2	
Iowa Falls 1 N	31.9	-2.6	62	24	2	1		24	1.70	.17	.50	22	1.2	T	1	6	4	
Marshalltown No 1	34.3	-1.3	68	24	1	17		20	2.33	.41	.92	22	2.0	T	17	6	3	
Newton	35.8	-.8	68	28	8	1+		20	2.56	.94	.89	22	.2	T	8+	7	4	
Perry 2 SE	35.1	-1.7	66	24	8	15		22	2.55	1.01	.91	31	1.2	T	1+	11	3	
State Center	33.8	-2.1	65	24+	8	1		23	2.38	.68	.78	31	T	T	1+	8	2	
Toledo	34.8	-1.3	69	24	3	1		20	2.22	.35	.92	22	1.0	T	16	10	3	
Waukegan	37.2	.5	68	24+	10	1		18	2.80	1.15	.75	22	.5	T	8+	8	4	
Webster City	33.3	-1.2	64	24	3	17		23	2.87	1.28	.71	24	2.5	T	1+	10	5	
Woodward 7 N	35.1	-1.5	65	24+	7	15		22	1.55	.00	.45	26	.4	T	3	10	3	
DIVISION	34.6	-1.3							2.26	.57								
EAST CENTRAL DISTRICT																		
Anamosa 1 NW	33.7	-.5	66	24		1		22	2.60	.80	.65	22	T	1	1	8	4	
Belle Plaine	35.0	-1.0	68	24	4	1		20	2.51	.30	.60	22	2.1	T	3	11	4	
Bellevue L & D 12	35.8	.6	65	28	8	1		18	1.68	.42	.71	31	1.0	T	1+	6	3	
Cedar Rapids No. 1	35.3	-.6	68	24	3	1		19	2.49	.78	.83	31	2.1	T	3	1+	8	
Clinton No. 1	37.5	.7	70	29	10	1+		19	2.60	.24	.64	27	T	T	16	11	4	
Davenport WB City	37.8	.1	70	29	10	15		17	2.59	.27	.88	26	1.5	T	1	16	9	
Iowa City AP CAA	35.3	-1.2	70	24	6	1+		19	2.91	.77	1.22	30	1.7	T	2	1	8	
Le Claire L & D 14	37.4		67	28+	10	1		17	2.71	.32	.93	27	1.0	T	17	8	4	
Mossmouth 4 SW	34.5	-.5	66	24	5	15		22	2.03	.08	.77	31	.5	T	1	1	9	
Muscatine No. 1	37.7	.1	72	28	10	1+		17	2.98	.68	.61	26	T	T	9+	9	6	
Tipton	36.5	.1	68	24+	8	1+		20	3.55	1.45	.68	26	3.0	T	3	16+	9	
Vinton	35.1	-.9	68	24		1		19	1.75	-.10	.60	26	T	T	17	6	7	
Williamsburg	35.0	-2.0	68	24	4	1		18	2.70	.55	.74	26		T	1+	7	5	
DIVISION	35.9	-.2							2.55	.48								
SOUTHWEST DISTRICT																		
Atlantic 1 E	35.1	-2.0	70	28		15		24	2.30	.83	.49	26	1.9	T	1+	13	5	
Atlantic AP CAA	34.2	-2.9	68	28	2	15		24	1.76	.29	.53	21	1.6	T	1+	11	4	
Bedford 1 N	37.5	-1.2	70	24+	5	15		22	2.33	.72	.92	21	3.0	T	1	9+	5	
Clarinda	37.7	-1.1	73	28	6	15		24	2.01	.40	.63	26	1	T	19	9	2	
Corning 2 E	36.6 M	-.9						24	1.31	-.33	.50	26	1.1	T	1	8	5	
Council Bluffs 5 NE	36.7		69	28	4	15		23	2.00		.57	22	.8	T	1	9	10	
Glenwood 2 E	36.6	-2.5	70	28	3	15		23	2.05	.62	.61	30	T	T	1	1	9	
Greenfield	35.1	-.4	68	28	6	15		21	2.21	.61	.62	26	1.2	T	1	8	9	
Norwich 2 E SCS Farm	37.2	-1.8	72	28	5	15		23	2.07	.47	.72	30	2.0	T	8+	9	3	
Oakland 2 E	35.8	-2.6	70	28		15		24	2.02	.67	.91	26	1.7	T	1	8+	11	
Red Oak	36.7	-2.4	72	28	5	15		23	1.81	.26	.50	21	1.3	T	1+	8	3	
Shenandoah	38.1	-1.9	74	28	5	15		24	1.99	.44	.72	26	2.0	T	1	19	10	
DIVISION	36.4	-2.0							1.99	.47								
SOUTH CENTRAL DISTRICT																		
Afton	35.7	-2.4	70	28	1	15		26	1.56	-.22	.79	26	T	T	9+	5	2	
Albia	37.4	-.6	71	24+	9	1		18	3.47	1.54	1.02	22+	T	T	1+	7	5	
Centerville	38.5	-.3	72	24	7	15		18	3.84	1.98	1.45	30				9	3	
Chariton 3 E	37.6	-.3	70	28	6	15		20	2.45	.77	.87	26	T	2	1	6	4	
Indianola	37.5	-.4	71	28	7	15		21	2.33	.71	.70	22	1.0	T		8		
Knoxville	36.0	-2.5						18	3.26	1.46	1.08	26	.9	T	1+	8	4	
Lamoni	38.3	-.2	71	24+	3	15		19	3.00	1.10	1.09	26	.6	T	1+	8	4	
Millerton	37.7	-.9	70	24+	8	1		19	1.39	-.42	.70	21				6	2	
Mount Ayr 2 N	38.2	-.4	72	25	4	15		19	1.39	-.42	.70	21				14	10	
Osceola	37.6	-.9	70	24+	5	15		19	2.27	.57	.63	26	.9	T	14	10	4	
Tingley	37.5	-.3	75	28	3	15		21	1.73	-.02	.68	26	1.6	T	1+	9	2	
Winterset	37.4	-.5	69	24+	7	15		21	2.84	1.13	.96	22		T	1	9+	8	
DIVISION	37.5	-.6							2.56	.78								
SOUTH EAST DISTRICT																		
Bloomfield 2 N	37.2	-1.7	73	24+	4	1		19	3.35	1.06	1.41	26	T	T	9+	7	4	
Burlington WB Airport	37.7	-.2	76	29	8	1		18	2.93	.39	.91	26	.8	T	1	9	4	
Columbus Junction	38.0	-.1	71	24	7	1		17	2.71	.41	.64	26	T	T		7	5	
Fairfield	37.8	-.5	73	24	10	15		18	3.01	.75	1.09	26	T	T	1+	7	4	
Keokuk L & D 19	40.6	.1	72	29	14	15		15	1.92	-.35	.52	26	1.3	T	1	18	7	
Keokuk WB City	40.1	-.4	74	29	14	1		16	1.88	-.39	.76	26	1.4	T	1	17	8	
Keosauqua State Park	39.3	-.7	74	24+	8	1		17	2.65	.40	1.07	26	T	T	1+	7	4	
Mount Pleasant	38.3	-.7	72	24	7	1		18	1.92	-.29	.98	26	T	T		6	2	
Oskaloosa	37.6	-.1	72	24	8	1		17	3.12	1.22	1.04	22	T	T	1+	6	5	
Ottumwa 1 WSW	38.9	-.6	75	24	9	1		18	3.32	1.22	1.13	26	T	T	1+	7	4	
Ottumwa AP CAA	37.1	-2.4	71	24+	10	1		19	3.45	1.35	1.20	26	T	T	1+	8	4	
Sigourney	37.3	-.1	72	24	7	1		17	3.04	.95	.92	31	T	T		7	5	
Washington	37.4	-.8	70	24+	8	1		17	3.02	.70	1.08	26				7	5	
DIVISION	38.3	-.3							2.79	.57								
STATE	34.5	-1.2							2.44	.75								

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
MARCH 1949

Table 3

Station	Day of month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Afton									T					.19							.30					.79				.19	.09	1.56
Akron										T				.04		.03			.04		.28		T	1.22		.70	.20		.85	.07	3.76	
Albia						T		.01	.30	.02					T						1.02		T			.56	.54			1.02	3.47	
Algona										T					T						.35	.22		.23		.45	.14		.22	.44	.45	2.65
Allerton	R							.25	.05						T						.98	.02				.92			1.05	.04	3.31	
Allison											T	T									.02	.24		.15	.24	.38	.05		.12	.09	.51	1.98
Alta						T					T	T			.01	.02	.04	.02			.17	.27		.30	.02	.38	.37		.05	.29	.30	1.88
Alton						.25					T	T			.05	.30	T	T	.30		.10		.04	.45		.45	.17	T	.25	.33	.18	2.87
Ames 3 SW	Z							.05	T	T	T	T			T	.06	T		T	.04	.50	T	.22		.38	.12		.24	.60	.21	2.21	
Anamosa 1 NW								T	.22											.16	.65				.54	.17	.02	T	.27	.57	2.60	
Atlantic 1 E						T		.07	.01	T	T			.01	T			T	.10	.34	.35	.02	.12		.49	.01		.08	.33	.37	2.30	
Atlantic AP CAA	Z //					T		.05	T	T	T			.01	T			T	.06	.53	.02		.08		.31	.01	.03	T	.37	.29	1.76	
Audubon 2 S						.02		.11	T	T	T			.01	T			.02	.03	.62	.09		.29		.37	.02	.03		.35	.44	2.40	
Augusta							T			.55	.02	T			T						.34		T		.82	.65		*	1.10	T	2.25	
Bancroft																								.70		.45						2.25
Bartlett 3 E								.30				T			.03				T		.22	.10			.25				.54	T	1.44	
Beaver	R																		.03	.49	.10		.21		.71			.03	.09	.16	1.82	
Bedford 1 N									.12						T						.92	T			.70				.39	T	2.33	
Belle Plaine								.09	.10	T	T					.18	T	T		.19	.60	.01	T	.42	.01	.01	.01		.33	.57	3.51	
Bellevue L & D 12	Z						T	T	.14	T		T				.04				.32		T		.01	.46			T		.71	1.68	
Blockton 2 S								.05							.03				.08	.37	.39				.76				.36	T	2.04	
Bloomfield 2 N								.23	.06		T				T			T	.31	.30		T		1.41				1.00	.04	3.35		
Boone								.02	T	T	T				T	.14	T		.17	.48		.26		.82			.08	.22	.56	2.57		
Britt										T	T				T	.10			.17	.48				.82			.08	.22	.56	.62	4.16	
Burlington WB Arpt	Z //						T	.57	.11	T	T	T			T	T	.02		.38	.01	T	.02		.91	T		.85	.06	2.93			
Carroll											T	T							.65		.62		.20		.65		.05	.33	T	1.88		
Cascade	Z								.20		T	T				.10			*	.62				*	.70			*	.66	2.30		
Castana 4 E											T	T				.04			.62	.22		.19		.32	.05			.54	.04	2.08		
Cedar Falls										T	T			T		.10			.15	.62	T	.08		.39		.04	.16	.25	.24	2.03		
Cedar Rapids No. 1						T				.15	T	T	T		T		.18			.61	.01	T	T	.04	.68	.01	T	T	.83	2.49		
Cedar Rapids No. 2						T				.18	T	T	T		T		.18					T	T	.01	.44	.74	T	T	T	.85	2.51	
Centerville	Z					T	T	.20	.04	T	T	T			.01				.42	.20			1.44				1.45	.07	3.84			
Chariton 3 E								.12	T		T	T							*	.82				.87				.56	.08	2.45		
Charles City	Z									T	T	T			T		.04			.27	.31	T	.45		.47		.19	.40	.32	2.45		
Cherokee	Z							.01		.01	T				T		.08			.18	T	.01	.59		.20	.08	.19	.51	1.03	2.96		
Clarinda						T	T			.18	T				T			.15	.12	.08	.40		T		.63	.16		.18	.11	2.01		
Clarion											T							.50		.20	.55		.50		.45	.10	.07	.45	.20	3.02		
Clinton No. 1								.15	.20						.03				.14	.34				.06	.55	.64	.03	.26	.20	2.60		
Clinton No. 2									.33										.35	.35	.01			.05	.02	1.22	T		.41	2.41		
Columbus Jct.								.48	.20			T				T			.32	.12				.64			.55	.40	2.71			
Coon Rapids	R							.06											.04	.64	.11		.37		.71			.35	.28	2.56		
Corning 2 E								.06												.23	.25				.50			.35	.35	1.31		
Council Bluffs 6 NE	R							.09					.05		.05				.80	.57				.35		.10	.36	.13	1.90			
Council Bluffs 5 NE								T	.05		T			.01			T		.35	.57	.03			.42	.04	.13	.23	.17	2.00			
Cresco																T			.02	.57			.70	.40	.25	.40	.25	.40	.94	3.76		
Cumberland 5 NW								.10	.05	.01	T			.05		.05		.03	.25	.31	T	T		.29			T	.14	.19	1.47		
Cushing 3 NE						.01				.02	.01	T	T		.04		.03		.17	.25	.08	T	1.13		.07	.04	T	.07	.27	.07	2.26	
Dakota City	Z										T	T			T		.06		.43	.44		.09		.47	.28	.13	.18	.35	2.52			
Davenport WB City	Z						T	.58	.01		T	T			T		.14		.26	.01	T	T		.88	.02	.64	.05	2.59				
Decorah Dry Run															T				T	.65			.17	.08	.09	.30	.15	.37	1.81			
Decorah 2 S											T	T			T				.63	T		.20		*	.81		.05	.36	.45	2.50		
Delaware 2 W								T	.02	T	T				T		.03	T		.82	T			.75	.09	T		.78	.15	2.64		
Denison 2 S																			.23	.25		.08	.64		.26	.03	.02	.13	.04	1.76		
Derby	R							.16											.76	.13				.76			.61	.08	2.50			
Des Moines WB AP	Z						T	.30	T	T	T	T	T	.01		T	T		.62	.17	T	.02	T	.86	T	T	T	.18	.22	2.38		
Des Moines WB City	Z							.25	T	T	T				T	T			.68	.23	T	.12		.69	T	T	T	.23	.33	2.53		
Dexter	R							.08	.02		T	T			T	T			.42	.11		.30		.53			.10	.29	1.89			
Dubuque L & D 11				T	T				.13						T	.03			T	.33	.03	T	T		.01	.66	T	T	.64	1.80		
Dubuque WB City	Z			T	T			.15	.03		T	T			T	.02			.33	.03	T	T		.86	T	T	T	.59	.23	2.25		
Dumont 4 NW								T			T	T			T	.03			.11	.40	T	.43		.30	.04	.17	.04	.24	1.76			
Dunbar 2 NE								.09			T	.05			T		.11	T		.20	.82				.42			.60	.12	2.41		
Eddyville								T	.33										1.25					.40	.54			.85	3.37			
Elkader																			.06	.96			T		.42	.10	.13	.11	.92	2.72		
Emerson 5 NE								.26	T					.04		T		.02	.16	.16		.02		.36			.12	.21	.14	1.37		
Emmetsburg															T	.02			.40	T	.35	.42		.34	T	.08	T	.20	.20	2.78		
Estherville						T	T				T	T			.02	T	.02			.08	.46	T		.06	.43	.06	.26	.17	.48	2.05		
Fairfield								.43	.10		T	T			T		.05		.30	.15				1.09			.64	.10	3.01			
Fayette																			.08	.46				.06	.43	.06	.26	.17	.48	2.05		
Fort Dodge											T	T					.10		.09	.64			.02	.03	.45	.57	T	T	.34	1.79		
Glenwood 2 E								.07	.04						.03				.25	.43	.04				.45		T	.61	.13	2.05		
Glenwood 6 SE																.03				.09	T				.36			T	.12	.34		

HOURLY PRECIPITATION

IOWA
MARCH 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12						
Hamburg			.01	.01	.01								.02	.05	.08	.03	.05	.06	.06	.08	.06	.09	.02	.02	.65					
Hinton 5 WNW						.09	.04	.01	.02	.01			.01		.01	.02	.03	.05	.02	.02	.06	.01	.01		.26					
Hornick			.03	.02											.06	.04	.06	.06	.07	.07	.06	.04	.03	.02	.30					
Ida Grove 4 S			.05	.05			.03												.19	*	*	*	*	*	.64					
Iowa City AP CAA	6																	.02	.14	.15	.06	.04	.02		.43					
Iowa City Ralston Creek No. 1																	.01	.14	.15	.07	.04	.03			.44					
Iowa City Ralston Creek No. 2																	.01	.11	.14	.07	.04	.02	.01		.40					
Iowa City Ralston Creek No. 3																	.01	.09	.13	.13	.03	.05	.01		.45					
Iowa City Ralston Creek No. 4																			.11	.12	.12	.03	.04	.01	.43					
Iowa City Ralston Creek No. 5																			*	*	*	*	*	*	.50					
Iowa Falls 1 N																									.28					
Keokuk WB City			.01	.02												.01	.02	.07	.05	.04	.05	.01			.90					
Knoxville													.02	.01		.01	.01	.03	.05	.12	.12	.28	.01	.06	.13	.10				
Lamoni																.03	.05	.12	.18	.21	.07	.06	.04	.02		.83				
Larrabee					.05	.01										.01	.02	.01	.01	.02						.13				
Lenox																.01	.07	.06	.09	.13	.12	.04				.67				
Marion 4 NE																					.06	.19	.06	.04	.02	.04	.41			
Marshalltown No. 2																										*				
Mason City AP CAA	6						.02	*	*	*	*	*														*				
Missouri Valley			.03	.05	.05	.02	.03	.01								.03	*	*	*	*	*	*	*	*	*	.60				
Monona																			.01	.03	.08	.08	.10	.02	.01	.04	.04	.60		
Morse																			.05	.01	.01	.03	.07	.18	.13	.05	.53			
Morse 1 NE																			.01	.12	.19	.10	.03	.02	.01	.01	.49			
Morse 4 SSW																			*	*	*	*	*	*	*	*	*			
Mount Ayr 2 N																											.54			
Mount Pleasant																			.02	.01	.08	.13	.12	.09	.01	.12	.01	.01	.01	.56
Moville					.05	.01	.01		.02							.01	.02	.01	.02	.01	.08	.10	.02	.01	.01	.01	.29			
Muscatine No. 1																	.02	.01	.02	.01	.02	.01	.02	.01	.01	.01	.17			
Norwich 2 E SCS Exp. Farm						.03	.02									.01	.03	.08	.09	.16	.08	.20	.06			.71				
Oasis																.01	.08	.09	.03	.05	.03	.09	.09	.04	.03	.59				
Ottumwa 1 WSW																			.12	.15	.13	.05	.03	.03	.02	.53				
Ottumwa AP CAA	6															.06	.02	.11	.04	.08	.05	.03	.05	.02	.02	.48				
Remsen																*	*	*	*	*	*	*	*	*	*	*	.18			
Rockwell City				.04	.01	.02	.07	.03								.01	.02	.04		.02	.04						.74			
Saint Ansgar 2 WNW																			.04	.02	.10	.08	.07	.06	.08	.48				
Saint Charles																			.05	.09	.11	.10	.09	.16	.04	.03	.03	.70		
Sheffield							.11						.01			.01			.04	.02	.03	.07	.06	.08	.07	.50				
Shell Rock													.01	.01					.02	.01	.04	.04	.04	.03	.03	.22				
Sioux Center							.03	.02	.07		.02					.01	.01		.02	.02						.19				
Sioux City WB Airport					.02	.01	.01	.02	.01							.01	.02		.02	.02						.14				
Soldier				.05	.04	.03	.02	.02	.01	.01						.03	.06	.05	.05	.05	.05	.05	.02	.03	.01	.54				
Spencer 1 N	6		*	*	*	*	*	.12	*	*	*	*	*	*		.03	*	*	*	*	*	*	*	*	*	*	.26			
Spillville																			.01	.02	.02	.03	.03	.04	.05	.08	.26			
Strawberry Point																.01	.01	.01	.01	.02	.02	.02	.05	.11	.24	.01	.07	.58		
Tabor 6 NW				.03	.04			.03								.01	.05	.02	.03	.07	.05	.05	.09	.06	.07	.05	.03	.68		
Traer																			.02	.05	.05	.07	.07	.08	.05	.23	.62			
Wallin 2 WNW						.05	.05		.03							.01	.03	.04	.03	.04	.04	.10	.08	.05	.02	.57				
Washington																	.01	.05	.09	.12	.06	.02	.02	.03	.02	.40				
Webster City					.06	.02											.03	.02	.04	.04	.07	.10	.10	.09	.09	.57				
Wheatland																	.01	.09	.07	.13	.02			.02	.01	.35				
-22d-																														
Allerton		.01	.01																							.02				
Ames 3 SW		.07	.08	.04	.03	.02	.01	.01																			.24			
Atlantic AP CAA	//	.01																								.01				
Beaver		.03	.05	.02																							.10			
Burlington WB Airport	//		.01																							.81				
Cascade		.01	.02																							.03				
Centerville		.02	.06	.01		.02	.01																			.12				
Charles City		.10	.09	.05	.03	.03	.01																			.31				
Coon Rapids		.05	.01	.02	.01	.01		.01																		.11				
Dakota City		.04	.02																							.06				
Davenport WB City												.01														.01				
Derby		.02	.05	.04	.01	.01																				.13				
Des Moines WB Airport		.06	.04	.03	.04																					.17				
Des Moines WB City		.07	.07	.03	.02	.02	.02																			.23				
Dexter		.01	.05	.05																						.11				
Dubuque WB City										.02		.01														.03				
Greenfield		.03	.04																							.07				
Grinnell		.07	.12	.13	.02	.01	.02			.02	.01															.40				
Ida Grove 4 S		.03	.02																							.05				
Iowa City AP CAA	6	.24	*	*	*	*	*	.04																		.04				
Iowa City Ralston Creek No. 1			.01	.02	.01																					.07				
Iowa City Ralston Creek No. 2		.01	.02	.02		.02																				.03				
Iowa City Ralston Creek No. 3			.01	.02																						.03				
Iowa City Ralston Creek No. 4		.01	.01	.01																						.06				
Iowa City Ralston Creek No. 5		.02	.01	.01	.01	.01																				.02				
Keokuk WB City			.01																							.36				
Knoxville		.13	.08	.09	.01	.01	.01	.02	.01																	.09				
Lamoni		.02	.03		.03			.01																		.08				
Lenox		.01	.01	.04	.02																					.07				
Marion 4 NE					.01	.03	.01		.02																	.98				
Marshalltown No. 2		*	*	*	*	*	*	.98																		.98				
Mason City AP CAA	6	.39	*	*	*	*	*	.13																		.23				
Monona		.07	.05					.05	.05	.01																.01				
Morse		.01																								.49				
Morse 1 NE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.07				
Mount Ayr 2 N		.																												

HOURLY PRECIPITATION

IOWA
MARCH 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Ottumwa AP CAA	6							*	*	*	*	*	.77	*	*	*	*	*	.03	*	*	*	*	*	.18
Remsen									.03	.05	.02			.02			.02	.01						.03	.28
Rockwell City			.01		.01										.05	.08	.05	.03		.01	.02		.01	.01	.77
Saint Ansgar 2 WNW		.01	.01	.08	.15	.10	.02								.05	.07									.25
Saint Charles									.08	.03	.06	.01					.07								.15
Sheffield									.02	.03							.01	.02	.05	.02					.34
Shell Rock																	.05	.05	.06	.02	.10	.18		.03	.38
Sioux Center								.04									.05	.05	.06	.01		.07	.01	.02	.51
Sioux City WB Airport		.09	.05	.01			.03	.01	.08	.03	.01	.03				.11	.06								.35
Soldier		.03	.01						.02	.03				.01	.02	.08	.02	.01	.07	.05	*	*	*	*	.38
Spencer 1 N	6	.03	*	*	*	*	.12	*	*	*	*	*	*	.06	*	*	*	*	*	.25	*	*	*	*	.38
Spillville				.03	.02							.01		.01							.04		.08	.13	.65
Strawberry Point			.01	.01								.05	.07	.03	.02							.09	.29	.08	.44
Tabor 6 NW						.03	.08	.01					.04	.26						.01	.01				.52
Traer												.08	.08	.02	.06				.06		.18	.04			.21
Wallin 2 WNW							.01	.14					.02	.25	.11	.01	.01		.01	.01		.03			.54
Washington																							.14		.30
Webster City		.04	.02	.02	.03	.01							.03	.03	.13				.05	.12				.01	.97
Wheatland																			.01		.11	.01	.03	.58	.04
Woodbine 5 SE																		*	*	.10					.10
-31st-																									
Allerton															.01	.01	.01	.01	.01						.04
Ames 3 SW				.06	.15	.15	.16	.02	.01	.02	.01	.01							.01						.60
Atlantic AP CAA	//	.04	.08	.08	.05	.04							.01	.01											.29
Beaver				.03	.06	.04	.01																		.16
Bellevue Lock & Dam 12		.07						.03	.02								.02	.06	.03	.01	.01				.25
Burlington WB Airport	//																		.01	.01	.02	.01	.01		.06
Cascade		.02	.02	.02	.02												.02	.01	.04	.02	.02				.19
Centerville																	.06	.01							.07
Charles City		.01	.02	.01	.01	.01	.01	.08	.09	.05	.02	.01	.01												.32
Cherokee			.01	.01	.02	.02				.04															.10
Coon Rapids			.01	.06	.05	.02	.02	.02			*	*	*	*	*	*	*	*	*	*	*	*	*	*	.28
Council Bluffs 6 NE		.08	.05																						.13
Dakota City			.01	.03	.01	.02	.04	.04	.01	.05	.01			.01		.02	.05								.30
Davenport WB City															.01	.01	.01	.02	.01	.01	.01	.02	.01		.05
Derby																									.08
Des Moines WB Airport			.02	.01	.03	.03	.03	.05	.01	.03	.01														.22
Des Moines WB City				.01	.04	.09	.07	.07	.01	.01	.05	.05	.01												.33
Dexter		.02	.05	.04	.06	.03	.01	.04	.04																.29
Dubuque WB City		.01							.05	.02	.01	.02	.01			.02	.04	.03	.01		.01				.23
Grinnell			.01	.02	.03	.01			.01	.01															.09
Hamburg																									.02
Hinton 5 WNW			.02	.01					.01	.02	.01		.01												.08
Hornick		.01	.06				.02																		.09
Ida Grove 4 S		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.62
Iowa City AP CAA	6	.80																							.04
Iowa City Ralston Creek No. 1											.01	.01	.03												.05
Iowa City Ralston Creek No. 2													.02												.04
Iowa City Ralston Creek No. 3			.01		.01																				.03
Iowa City Ralston Creek No. 4																									.05
Iowa City Ralston Creek No. 5			.01	.01	.01	.01	.05	.01	.01	.02			.02												.15
Iowa Falls 1 N			.01	.01	.03	.01	.05	.01	.01	.02			.01	.01	.07	.01						.01			.11
Knoxville																									.05
Larrabee					.01	.01		.03																	.10
Marion 4 NE														.01		.02	.02	.01	.02	.02					.29
Marshalltown No. 2			.03	.06	.04	.01	.05	.04					.01	.02	.01	.01									.05
Mason City AP CAA	6	.10	*	*	*	*	*	.22	*	*	*	*	*	.14	*	*	*	*	*	*	*	*	*	*	.03
Missouri Valley		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05
Monona																									.05
Morse																									.02
Morse 1 NE											.03	.01	.01	.01											.06
Morse 4 SSW																									.05
Mount Ayr 2 N			.03				.01									.01	.04	.05		.04	.02	.01			.17
Mount Pleasant																									.05
Moville		.02	.01		.01	.01																			.06
Muscatine No. 1		.01	.01	.02																					.02
Norwich 2 E SCS Exp. Farm		.01	.01																						.02
Oasis																									.05
Ottumwa 1 WSW										.02							.01	.02	.02						.07
Ottumwa AP CAA	6	.18															.02	*	*	*	*	*	*	*	.69
Remsen		.04	*	*	*	*	*	*	*	*	*	*	*	.65	*	*	*	*	*	*	*	*	*	*	.18
Rockwell City		.01	.01		.01	.03	.01		.01	.03									.01						.22
Saint Ansgar 2 WNW			.01	.01	.01	.01	.02	.01	.03	.01	.01	.06	.03												.28
Saint Charles		.01	.03	.16					.01	.01									.03	.01					.33
Sheffield							.05		.01		.16	.06	.03												.18
Shell Rock		.01	.01	.01				.06	.03	.01	.01	.02	.01												.72
Sioux Center		.02	.03	.05	.04	.02	.05		.01	.03	.02	.05	.01	.01	.01	.06	.21	.05	.03	.01	.01	.01			.08
Sioux City WB Airport		.02	.01	.01							.01	.01	.01												.02
Soldier			.01																						.02
Spencer 1 N	6	.21	*	*	*	*	*	.17																	.01
Spillville		.01																							.31
Strawberry Point										.01	.01	.04	.05	.06	.04	.06	.02	.01	.01						.07
Tabor 6 NW		.04		.01	.02	.03	.01																		.06
Traer					.01	.07	.01																		.09
Wallin 2 WNW				.01	.02	.01	.01																		.10
Washington					.01	.01	.01																		.31
Webster City		.02	.05	.02	.04	.04		.04	.08	.02															.09
Wheatland			.01	.01	.01														.03	.01	.01	.01			.09

See reference notes

DAILY TEMPERATURES

IOWA
MARCH 1949

Table	Station	Day of month																															Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
	Afton	MAX MIN	36 5	37 19	43 28	57 29	52 32	43 27	45 20	43 29	33 21	33 15	32 16	38 16	43 18	37 15	25 1	38 20	36 15	36 15	37 16	66 25	60 42	50 29	47 26	69 36	63 31	61 38	58 32	70 29	64 37	58 37	50 30	47.1 24.2	
	Albia	MAX MIN	37 9	37 25	41 34	62 36	51 33	40 25	45 23	44 34	34 27	33 21	28 20	39 15	45 21	37 17	29 10	38 25	37 18	34 19	32 19	65 27	58 48	49 32	44 30	71 40	56 37	60 42	56 38	71 38	61 42	55 41	46 35	46.3 28.4	
	Algona	MAX MIN	33 7	40 27	40 29	52 32	44 33	35 25	43 21	39 30	31 18	26 19	28 17	39 14	33 26	27 14	25 4	31 20	34 14	34 15	29 17	58 25	55 34	35 30	36 27	57 35	54 34	44 36	49 32	54 35	44 35	40 33	35 31	39.5 24.8	
	Allison	MAX MIN	32 2	40 23	40 22	50 33	46 34	35 24	44 20	42 24	38 20	29 19	25 20	36 12	41 22	32 14	28 4	30 16	33 6	30 14	30 15	37 15	58 27	53 40	44 29	40 28	61 31	53 36	43 40	55 38	59 33	51 37	40 37	38 33	41.4 24.3
	Alta	MAX MIN	36 11	45 26	38 29	53 32	41 32	37 27	43 25	39 27	33 19	27 18	30 16	38 20	34 26	27 9	24 0	31 19	30 19	34 12	30 22	58 26	52 29	34 29	34 27	61 33	53 33	44 36	52 32	51 34	42 33	40 32	34 31	39.5 24.6	
	Alton	MAX MIN	38 15	48 26	43 18	56 30	47 32	40 28	43 26	43 26	33 18	33 19	32 18	43 20	38 29	31 13	25 -01	40 20	39 10	40 12	39 15	59 28	58 35	42 27	42 29	62 33	56 37	50 37	50 31	52 32	45 33	40 32	35 32	43.3 24.5	
	Ames 3 SW	MAX MIN	34 6	41 23	41 28	54 34	41 34	35 28	46 23	39 31	34 23	31 23	29 19	38 19	44 23	31 16	26 8	29 22	29 11	32 15	32 20	63 26	55 40	45 31	39 29	64 36	56 36	45 39	53 35	64 31	56 39	43 31	41 38	42.3 26.4	
	Anamosa 1 NW	MAX MIN	30 0	37 21	37 32	50 34	44 27	35 25	42 16	44 34	36 24	32 19	28 15	36 10	43 15	37 16	28 6	32 17	32 7	32 7	35 12	56 30	54 45	51 31	42 25	66 33	62 37	50 38	51 35	64 30	58 42	44 39	44 32	43.0 24.3	
	Atlantic 1 E	MAX MIN	35 7	41 23	42 25	56 32	48 30	42 29	43 23	41 25	34 21	32 19	33 18	41 20	39 20	35 14	24 0	41 18	38 15	38 14	37 23	67 28	53 36	39 30	43 28	62 38	57 33	53 38	58 33	70 29	60 37	51 36	51 31	45.3 24.9	
	Atlantic AP CAA	MAX MIN	35 8	40 22	42 29	53 30	47 29	39 26	44 24	40 28	32 23	29 21	31 19	38 20	39 22	29 7	24 2	36 20	37 16	36 17	36 25	65 30	52 34	35 31	43 30	66 38	56 34	51 40	57 33	68 27	42 38	50 37	39 32	42.9 25.5	
	Audubon 2 S	MAX MIN	31 7	39 22	38 28	50 33	42 32	32 26	40 26	36 26	29 19	26 18	29 16	34 20	35 24	28 10	21 0	29 18	31 15	32 14	32 21	59 28	52 34	36 29	38 28	62 31	52 33	46 38	54 32	64 33	44 36	44 35	40 30	39.5 24.6	
	Bancroft	MAX MIN	33 6	35 25	40 26	50 32	46 33	33 23	42 20	39 30	32 17	27 17	36 12	32 12	27 25	30 3	32 19	37 12	37 17	37 17	58 18	53 30	35 30	42 30	54 35	51 33	45 33			44 34	40 32	32 32	38.4 23.0		
	Bedford 1 N	MAX MIN	35 12	36 22	42 32	59 32	55 33	44 29	44 24	42 32	34 23	32 19	34 18	39 17	44 24	37 22	28 5	39 19	31 20	37 19	37 23	66 26	60 45	49 31	48 29	70 40	60 30	63 40	59 35	70 34	85 39	60 39	57 34	47.6 27.3	
	Belle Plaine	MAX MIN	31 4	42 20	39 33	54 33	48 31	37 27	44 19	45 33	35 26	34 22	29 17	37 13	46 18	34 17	28 8	32 18	35 5	32 12	34 14	59 28	53 44	49 32	42 30	68 37	64 38	49 41	51 37	68 30	60 40	45 41	43 35	44.0 25.9	
	Bellevue L & D 12	MAX MIN	32 8	37 25	38 33	50 36	49 34	40 28	43 20	45 35	37 25	33 20	32 20	34 16	44 17	38 22	28 10	32 20	35 11	34 21	36 12	57 21	60 40	52 34	43 28	62 37	60 41	52 40	50 42	65 30	59 45	48 41	44 37	44.2 27.4	
	Bloomfield 2 N	MAX MIN	36 4	36 18	41 31	61 34	51 33	41 30	46 19	42 33	37 25	35 19	30 20	37 12	45 18	39 19	30 8	42 22	37 17	36 17	42 15	55 24	64 41	55 32	48 30	73 35	65 34	62 43	58 40	73 35	65 41	52 40	49 35	47.8 26.6	
	Boone	MAX MIN	36 9	43 20	43 29	53 35	44 36	37 27	45 24	42 32	33 23	31 23	30 19	39 23	44 26	32 12	27 8	31 16	29 14	32 16	32 23	64 27	55 38	38 29	38 37	65 36	56 40	48 35	53 36	65 38	52 38	44 38	39 33	42.6 26.9	
	Britt	MAX MIN	31 4	33 23	37 28	43 29	43 31	36 22	40 20	38 28	29 16	29 15	23 14	31 15	31 24	31 10	22 0	30 18	31 18	30 9	28 13	56 25	56 34	35 26	36 25	53 31	50 35	40 30	44 30	49 32	49 32	40 32	37 29	37.5 22.6	
	Burlington WB AP	MAX MIN	37 8	39 20	41 33	63 35	53 30	40 21	45 19	43 37	38 26	35 20	27 16	37 23	46 15	35 11	31 22	41 22	36 16	34 15	38 15	61 29	59 45	52 33	47 33	71 31	57 38	63 43	56 40	72 38	76 45	51 35	50 27.8		
	Carroll	MAX MIN	35 8	44 26	43 29	54 34	44 33	39 24	45 29	40 34	29 21	31 21	43 22	39 13	30 24	24 15	30 24	30 25	35 15	34 22	62 26	55 35	37 30	37 29	64 34	56 37	48 33	56 34	65 33	48 34	55 36	48 35	41 31	42.3 25.9	
	Cascade	MAX MIN	29 2	37 21	37 33	48 35	46 25	35 20	42 33	44 23	36 23	35 19	29 18	36 13	43 17	35 18	28 8	31 19	35 4	32 17	35 13	55 30	58 42	48 32	45 27	66 36	59 39	45 37	48 38	65 29	50 42	42 39	42 34	42.8 25.6	
	Castana 4 E	MAX MIN	36 12	42 29	40 29	54 34	44 33	38 29	43 24	41 28	35 20	29 20	29 17	38 22	36 28	30 9	21 2	30 19	30 18	35 15	34 22	64 25	58 34	34 29	38 28	63 30	54 24	50 36	56 31	58 37	45 35	40 31	36 25.3		
	Cedar Rapids No. 1	MAX MIN	33 3	41 21	39 34	52 35	46 35	36 27	44 18	45 33	36 25	34 21	28 16	38 12	47 17	36 8	29 21	31 7	34 18	31 14	35 30	57 48	55 32	50 27	44 30	68 36	64 39	50 41	50 38	67 31	58 43	45 41	44 35	44.1 26.5	
	Centerville	MAX MIN	37 8	36 21	40 32	62 35	54 36	42 28	44 22	44 37	38 27	35 20	32 20	37 15	45 21	41 23	28 7	42 23	34 20	36 20	32 18	65 27	63 50	50 33	47 30	72 40	69 35	65 42	65 38	70 37	70 45	55 41	49 34	48.4 28.5	
	Chariton 3 E	MAX MIN	36 13	38 18	41 33	63 29	56 28	41 28	45 17	43 33	36 28	34 21	31 21	38 18	45 23	28 6	40 24	37 18	35 20	32 15	66 29	63 45	51 33	44 31	68 40	58 38	60 42	61 31	70 40	68 41	57 41	49 35	47.6 27.5		
	Charles City	MAX MIN	30 5	35 27	39 33	50 33	43 31	43 22	39 23	32 29	28 19	24 16	37 12	35 22	22 10	26 6	31 17	33 14	30 17	35 14	56 30	51 35	35 30	39 28	60 37	52 36	44 37	57 33	43 30	47 37	36 32	32 32	38.7 24.8		
	Cherokee	MAX MIN	38 11	45 26	39 28	54 30	42 32	33 27	44 24	38 34	26 18	30 16	42 21	33 23	24 6	24 -2	31 20	31 12	34 12	34 19	60 27	54 32	36 29	37 27	61 35	53 33	45 36	51 31	52 33	39 33	37 32	33 30	39.8 24.1		
	Clarinda	MAX MIN	37 15	38 22	42 32	61 31	49 30	43 25	45 32	42 26	34 22	33 21	33 21	40 24	38 19	28 6	39 21	36 22	38 21	37 24	66 32	57 39	39 32	50 30	70 35	62 28	64 35	62 37	73 31	63 41	63 41	50 35	47.6 27.7		
	Clarion	MAX MIN	33 5	40 26	40 29	51 31	41 27	35 26	44 21	39 32	32 20	27 18	27 17	38 11	37 22	25 12	25 3	29 19	30 3	30 11	60 25	52 36	36 27	37 22	59 34	53 35	43 32	48 30	57 36	46 35	39 32	35 23.5			
	Clinton No. 1	MAX MIN	37 10	37 24	40 32	57 36	52 31	40 27	44 20	54 36	39 26	35 19	33 20	38 17	45 18	32 10	32 19	37 14	35 20	36 15	59 30	67 45	50 36	45 29	69 36	58 41	49 42	54 42	68 34	70 46	50 39	52 37	46.8 28.2		
	Columbus Junction	MAX MIN	35 7	37 18	42 34	57 35	51 33	41 29	47 19	47 37	41 25	35 22	33 22	37 15	45 18	42 20	30 11	36 21	34 18	34 19	37 14	61 30	62 47	53 35	45 31	71 38	67 40	55 43	59 40	70 34	68 46	56 40	47 38	47.6 28.3	
	Corning 2 E	MAX MIN	35 11	36 23	41 31	57 30	49 33	42 30	45 24																										

DAILY TEMPERATURES

IOWA
MARCH 1949

Table 5--Continued

Station		Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
Delaware 2 W	MAX	30	36	39	47	36	41	36	40	38	32	33	33	37	32	23	31	35	31	35	54	52	50	40	63	59	44	48	63	54	40	40	41.0
	MIN	1	20	28	30	32	23	18	25	22	18	15	11	19	16	5	16	5	13	12	29	41	30	25	34	35	36	35	30	39	36	31	23.5
Denison 2 S	MAX	34	40	39	54	41	39	43	39	33	30	31	39	35	30	25	30	32	36	34	62	55	35	38	63	54	46	56	62	48	41	40	41.4
	MIN	10	25	26	32	27	28	25	25	20	20	17	21	25	10	1	18	14	15	21	29	34	29	26	35	31	36	31	30	36	34	31	24.6
Des Moines WB Airport	MAX	36	42	42	56	46	36	45	41	33	32	30	38	42	30	25	33	33	33	32	66	57	35	41	69	58	54	55	68	50	48	41	43.5
	MIN	11	24	28	35	32	25	23	33	25	22	20	21	25	13	9	22	18	18	21	28	35	31	29	40	37	41	36	38	40	40	33	27.5
Des Moines WB City	MAX	38	44	44	57	47	38	46	42	34	33	28	39	43	29	27	34	35	34	32	66	57	36	42	69	58	54	56	68	47	49	42	44.1
	MIN	12	26	28	35	34	26	25	32	26	22	21	22	24	14	11	24	19	20	22	29	36	32	30	41	39	42	37	35	40	40	33	28.3
Dubuque L & D 11	MAX	28	36	34	45	45	43	38	38	38	32	32	33	39	36	34	29	35	33	36	53	55	52	43	62	62	49	47	61	57	41	39	42.1
	MIN	5	23	30	34	31	25	19	34	22	17	17	15	18	17	6	17	14	17	14	30	41	30	25	34	37	37	37	32	41	38	32	25.5
Dubuque WB City	MAX	31	39	38	50	48	35	43	44	33	33	28	37	45	30	28	32	37	32	37	56	60	52	45	66	57	45	47	64	57	43	41	43.0
	MIN	9	26	33	36	33	24	21	32	24	19	19	18	21	12	8	19	17	19	17	32	47	32	29	37	40	41	37	34	42	39	33	27.4
Elkader	MAX	30	34	37	50	43	38	42	42	41	32	25	36	41	35	27	32	35	31	37	53	53	45	42	64	61	42	45	60	53	40	40	41.5
	MIN	0	20	23	34	30	22	15	33	22	17	16	9	15	14	5	15	6	6	8	30	43	30	24	35	36	32	32	25	35	36	32	22.6
Emmetsburg	MAX	36	42	39	55	43	35	41	30	31	29	31	37	32	27	27	30	33	33	31	57	52	41	35	58	52	49	49	50	42	39	36	39.4
	MIN	9	28	29	32	33	25	26	28	18	19	17	13	25	13	4	20	13	14	18	25	31	30	25	34	34	34	33	32	34	33	31	24.5
Estherville	MAX	38	36	38	51	43	34	45	39	30	25	29	38	32	23	25	31	35	34	29	58	49	34	36	56	51	44	45	50	46	38	33	38.5
	MIN	11	27	27	32	32	21	20	26	16	18	15	13	23	11	2	19	13	13	17	25	33	28	25	34	33	33	32	32	34	32	30	23.5
Fairfield	MAX	36	37	42	60	50	39	46	43	37	34	30	37	44	39	29	39	35	33	33	64	63	52	47	73	67	59	58	71	65	49	48	47.1
	MIN	12	22	33	33	34	30	22	37	27	22	15	23	21	20	10	23	16	12	20	30	43	34	31	41	38	41	40	31	46	41	36	28.5
Fayette	MAX	29	36	36	48	44	36	40	42	38	31	28	36	41	30	27	32	35	30	36	54	51	46	40	62	58	47	46	60	53	40	37	40.9
	MIN	-4	21	31	34	34	22	16	32	21	18	14	8	15	15	4	14	3	15	8	29	40	31	24	36	36	30	26	39	36	32	22.9	
Fort Dodge	MAX	35	42	42	53	48	32	45	35	32	28	28	37	39	22	27	30	32	32	31	62	48	33	38	62	56	48	52	58	51	39	35	40.4
	MIN	9	27	29	32	32	27	21	30	20	20	18	22	26	14	5	21	7	12	17	27	39	30	28	36	35	37	33	33	37	35	31	25.5
Glenwood 2 E	MAX	37	39	43	56	47	41	45	41	35	30	29	38	37	32	24	37	35	37	40	67	60	38	48	67	58	55	62	70	62	60	54	45.9
	MIN	14	28	30	29	30	29	25	31	25	19	11	23	24	16	3	21	20	18	26	32	36	32	29	44	33	41	36	31	39	38	34	27.3
Greenfield	MAX	36	40	42	55	48	38	43	38	32	32	31	36	40	35	26	29	35	33	34	64	58	41	43	66	58	54	56	68	59	51	49	44.2
	MIN	7	22	29	33	33	26	23	26	22	18	17	20	23	15	6	22	18	12	16	28	41	31	28	38	35	39	34	33	38	37	32	25.9
Griernell	MAX	33	40	38	54	48	39	44	41	36	34	28	38	45	35	28	30	35	32	32	62	57	49	40	69	64	50	52	66	62	45	44	44.2
	MIN	3	20	23	40	30	23	17	21	24	20	18	12	20	15	6	18	11	13	16	26	44	31	28	35	36	40	35	32	38	39	33	24.7
Grundy Center 5 NE	MAX	30	41	38	52	42	37	46	40	38	33	28	38	46	36	28	30	32	31	33	64	55	50	40	64	66	48	51	63	58	45	46	43.5
	MIN	-1	20	32	32	33	22	19	30	22	20	15	9	20	15	4	16	7	11	12	26	41	30	28	35	35	36	34	30	37	37	32	23.8
Guthrie Center	MAX	36	41	44	55	46	38	44	41	31	29	30	38	39	32	24	31	32	33	32	64	56	38	38	65	56	48	56	67	60	45	43	43.0
	MIN	9	25	29	34	35	29	24	30	22	20	18	23	24	15	5	21	17	18	21	28	31	29	36	35	39	35	34	37	37	32	26.8	
Guttenberg L & D 10	MAX	37	40	45	52	49	39	45	47	38	32	28	37	42	36	31	31	34	39	37	56	57	50	44	63	55	54	51	60	54	42	48	44.3
	MIN	3	23	30	34	33	23	18	32	21	18	15	12	17	14	5	16	12	15	12	30	43	30	25	34	34	35	36	29	39	36	32	24.4
Hampton	MAX	33	38	40	52	46	38	44	40	35	30	27	37	41	31	25	31	32	30	33	60	56	53	38	61	60	50	48	61	49	40	38	41.8
	MIN	3	26	31	32	34	24	20	32	20	19	16	10	20	12	5	19	8	13	14	26	43	29	28	36	35	31	34	34	36	35	32	24.4
Harlan	MAX	35	41	38	53	48	38	42	41	33	32	30	37	35	32	24	32	33	36	34	62	58	37	40	65	57	53	58	65	54	45	44	43.0
	MIN	10	21	28	32	31	31	25	30	23	22	19	27	25	15	4	19	16	15	25	30	37	31	30	40	34	40	34	30	38	37	33	26.8
Hawarden	MAX	38	44	38	55	45	36	44	39	34	29	30	41	35	27	23	32	32	34	34	59	52	38	39	62	55	47	52	51	45	39	35	40.8
	MIN	18	27	28	32	32	32	27	25	17	21	14	25	27	12	0	20	13	12	22	29	34	28	28	35	34	35	30	35	34	33	31	25.5
Ida Grove 4 S	MAX	36	42	38	53	44	40	43	39	37	29	29	43	34	31	24	33	32	37	34	61	56	36	35	61	55	48	55	58	46	39	37	41.5
	MIN	10	29	28	33	32	29	25	28	20	20	20	22	26	12	1	20	14	13	22	29	35	30	27	34	34	38	32	35	35	34	31	25.7
Independence 2 W	MAX	31	40	38	48	42	39	42	41	39	32	28	35	43	36	27	31	33	31	36	56	54	48	42	64	62	53	49	63	59	43	41	42.8
	MIN	-3	16	28	30	30	21	16	30	19	16	12	8	17	12	2	14	6	17	14	28	38	31	27	34	36	36	36	30	40	38	33	23.0
Indianola	MAX	39	43	45	61	52	40	47	42	32	33	32	40	44	38	28	38	37	37	34	67	61	48	42	70	65	53	57	71	67	51	48	47.2
	MIN	9	24	29	32	35	29	23	32	25	19	20	18	26	19	7	23	16	16	19	28	47	32	29	38	38	41	36	35	49	46	33	27.8
Inwood 2 W	MAX	35	42	35	50	42	35	43																									

DAILY TEMPERATURES

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Table 5-Continued

Station		Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
Marshalltown No. 1	MAX	33	43	41	52	45	37	45	42	35	34	26	37	46	33	28	31	33	31	31	63	57	47	40	68	60	50	53	65	52	44	41	43.3
	MIN	2	24	33	33	34	26	21	30	25	22	17	12	20	14	7	20	1	12	14	27	45	31	29	36	37	39	35	28	38	39	33	25.3
Mason City 3 N	MAX	33	35	41	47	42	32	42	38	32	30	22	37	34	27	25	32	33	31	35	57	52	35	38	55	51	44	45	55	45	39	36	38.7
	MIN	5	26	31	31	32	22	21	28	18	18	15	9	25	11	4	18	9	14	11	27	35	29	27	36	34	33	33	29	34	34	32	23.6
Mason City AP CAA	MAX	31	34	40	46	40	30	42	36	30	26	22	36	32	20	24	29	30	29	34	56	47	32	37	54	51	45	45	55	41	37	35	37.0
	MIN	4	26	30	31	29	22	22	28	18	18	13	10	20	9	4	10	7	14	15	24	32	28	28	35	34	34	31	30	34	33	31	22.7
Milford 4 NW	MAX	36	36	36	48	46	32	44	38	29	24	28	38	32	22	23	30	33	34	28	56	48	34	34	55	50	42	43	48	44	36	36	37.5
	MIN	10	26	20	30	32	23	16	25	15	17	14	12	21	10	0	17	12	12	19	17	33	28	20	34	32	35	31	32	33	32	30	22.2
Millerton	MAX	36	36	46	63	54	41	44	43	36	35	31	30	39	46	30	39	42	37	33	65	59	49	46	70	63	62	60	70	65	57	49	47.6
	MIN	8	21	32	34	34	28	23	35	27	20	20	20	16	23	10	20	19	18	19	27	46	31	29	39	36	40	36	35	40	41	35	27.8
Missouri Valley	MAX	38	44	41	57	49	44	45	42	38	33	32	42	35	31	31	35	35	39	37	68	59	37	46	68	59	51	63	71	48	49	43	45.5
	MIN	15	29	32	34	34	32	30	30	24	21	16	25	27	13	5	21	18	18	27	32	37	32	30	43	33	41	35	35	38	37	32	28.3
Monmouth 4 SW	MAX	30	37	39	49	46	38	42	50	38	33	30	37	45	37	29	31	33	32	34	56	59	52	44	66	61	52	50	65	65	50	45	44.4
	MIN	6	20	31	33	31	24	18	33	22	16	16	12	16	18	5	17	6	15	12	27	40	30	25	33	37	38	36	31	42	38	32	24.5
Mount Ayr 2 N	MAX	35	41	41	60	56	41	44	42	34	33	32	38	47	37	28	40	34	38	40	66	60	49	55	66	72	59	69	70	68	63	51	48.7
	MIN	10	23	33	32	35	29	23	33	26	20	21	18	22	18	4	20	20	20	23	29	45	33	31	39	35	34	34	32	41	40	34	27.6
Mount Pleasant	MAX	38	36	41	63	52	43	46	42	38	35	30	39	47	42	31	40	35	35	34	61	63	50	45	72	68	59	60	71	71	61	48	48.3
	MIN	7	20	32	34	35	28	19	36	26	21	21	15	24	17	11	21	18	19	15	28	46	34	31	39	38	43	39	37	45	40	35	28.2
Muscatine No. 1	MAX	36	38	44	58	53	41	46	48	39	35	32	37	46	33	30	32	34	34	36	59	60	52	46	71	64	53	55	72	69	57	47	47.0
	MIN	10	20	34	36	36	27	19	38	26	20	21	14	19	24	10	22	14	15	16	30	45	35	30	37	41	41	40	34	48	40	37	28.4
New Hampton	MAX	27	35	36	48	41	33	41	39	33	29	24	36	35	31	27	31	32	29	35	55	50	44	39	58	51	45	44	57	49	39	36	39.0
	MIN	-3	18	27	28	29	18	14	28	15	13	8	5	17	8	-2	11	3	10	6	25	35	25	21	31	31	30	30	26	33	30	28	19.3
Newton	MAX	34	44	43	55	45	37	46	42	33	33	26	37	44	35	28	30	32	32	32	65	55	49	40	66	62	51	54	68	61	47	44	44.2
	MIN	8	23	32	33	34	28	22	32	27	22	19	15	22	18	8	20	14	16	20	27	48	32	29	38	38	39	36	34	39	40	34	27.3
Northwood	MAX	31	35	39	46	42	36	41	39	28	29	24	35	31	28	23	32	33	29	34	55	55	38	36	52	52	45	40	54	47	41	35	38.2
	MIN	2	24	30	31	33	21	19	29	17	19	15	10	26	12	4	16	12	15	12	22	28	25	35	33	34	32	31	34	33	31	22.8	
Norwich 2 E SCS Farm	MAX	37	37	41	59	49	42	45	43	32	32	30	39	41	38	26	38	35	38	39	66	59	40	50	70	58	62	61	72	62	64	50	46.9
	MIN	13	23	31	31	31	30	24	31	24	20	16	20	20	21	5	19	21	20	23	30	39	31	29	42	31	40	36	34	39	40	34	27.4
Oakland 2 E	MAX	33	40	40	55	49	40	43	41	35	36	33	37	36	33	23	36	31	37	36	65	61	37	45	67	55	52	59	70	61	50	50	44.7
	MIN	10	25	30	32	31	30	25	29	23	20	17	22	22	15	0	20	18	18	25	31	37	32	31	42	32	40	35	30	38	37	34	26.8
Oelwein	MAX	29	36	38	48	42	35	42	42	37	31	26	35	42	31	26	30	34	29	36	55	53	46	40	62	59	49	48	63	51	40	38	41.1
	MIN	1	24	32	34	34	24	21	33	22	19	15	10	19	14	5	19	10	16	13	20	43	31	27	36	36	35	36	29	39	36	33	24.7
Onawa	MAX	36	44	40	55	46	39	43	42	37	32	30	40	34	32	25	32	32	36	36	64	54	38	43	66	57	51	60	61	47	44	41	43.1
	MIN	15	28	29	31	30	30	26	29	22	21	15	24	27	11	2	19	17	17	26	31	35	29	28	36	32	33	32	32	35	34	31	26.0
Osage	MAX	28	35	36	47	47	40	40	36	36	27	25	35	34	32	25	31	32	31	35	55	54	48	37	54	57	50	50	55	54	41	37	40.1
	MIN	2	27	30	31	33	21	19	30	17	16	12	8	23	12	0	17	11	15	11	27	41	28	24	34	34	33	33	29	33	34	31	23.1
Osceola	MAX	37	37	42	62	50	40	45	43	34	32	32	39	45	36	27	39	35	35	34	66	59	50	44	70	64	61	61	70	66	57	50	47.2
	MIN	10	23	32	33	37	30	23	33	25	20	19	20	23	20	5	22	18	19	21	28	46	31	28	46	31	30	38	35	41	36	40	34
Oskaloosa	MAX	38	40	42	60	49	39	46	47	36	34	28	38	47	37	30	35	34	35	33	65	59	51	43	72	67	58	58	71	61	47	44	46.6
	MIN	8	23	34	35	34	29	21	36	29	23	15	20	25	20	11	24	17	19	17	28	47	33	31	37	39	42	39	35	41	41	36	28.6
Ottumwa 1 WSW	MAX	38	38	42	63	59	42	48	45	38	35	33	40	47	44	31	41	36	35	34	67	67	52	45	75	71	60	56	72	64	54	50	49.1
	MIN	9	20	33	33	28	30	20	35	28	23	23	15	20	25	12	24	19	21	17	28	43	35	31	36	38	43	43	34	44	42	37	28.7
Ottumwa AP CAA	MAX	35	37	41	60	50	39	46	43	35	34	27	36	45	32	29	38	35	33	33	65	59	48	43	71	57	60	55	71	62	52	44	45.6
	MIN	10	23	33	36	32	25	23	33	26	22	20	16	23	15	11	24	18	20	20	28	47	32	31	39	39	42	39	37	44	41	35	28.5
Perry 2 SE	MAX	37	43	43	54	43	40	45	39	33	30	31	40	43	30	27	30	31	32	31	64	57	46	38	66	57	50	55	65	57	45	44	43.4
	MIN	10	23	29	33	33	29	25	25	23	23	19	24	24	16	8	22	16	18	22	27	39	31	29	36	35	39	35	31	39	38	31	26.8
Pringhar	MAX	36	45	44	52	52	35	42	43	31	30	31	41	41	30	24	30	31	34	36	57	58	37	39	59	59	55	47	49	47	46	39	41.9
	MIN	11	25	27	30	30	24	24	23	15	17	14	17	20	10	-3	17	13	8	20	25	33	26	25	32	31	35	29	33	32	31	29	22.7
Red Oak	MAX	36	37	42	58	59	43	44	43	34	33																						

DAILY TEMPERATURES

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Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Tingley	MAX	35	35	40	60	53	43	44	43	32	33	34	39	45	38	28	38	35	38	37	66	60	50	48	70	65	63	63	75	67	58	50	47.9
	MIN	10	21	32	30	35	28	23	32	24	19	19	18	20	20	3	20	18	18	22	26	43	31	30	40	33	40	35	35	40	40	34	27.1
Tipton	MAX	33	42	44	58	48	37	44	53	34	36	33	38	46	34	30	33	33	33	38	58	60	50	43	68	63	52	56	68	67	52	44	46.1
	MIN	8	21	32	34	32	27	21	27	32	18	18	12	21	18	8	18	8	15	15	34	40	32	30	37	39	41	38	35	45	40	34	26.8
Toledo	MAX	34	41	40	54	45	35	45	40	35	33	28	38	46	35	29	30	33	32	33	61	56	46	40	69	65	50	52	66	58	45	42	43.7
	MIN	3	23	32	34	34	27	21	34	25	22	18	13	20	17	8	19	4	13	15	27	43	32	29	37	37	38	35	32	39	39	34	25.9
Tripoli	MAX	28	38	37	51	47	42	42	39	32	30	37	43	34	27	33	37	32	36	56	52	49	41	63	62	52	47	60	58	41	40	42.8	
	MIN	1	21	32	33	34	24	22	31	22	19	14	11	23	15	5	17	9	15	13	29	40	32	27	36	35	36	35	30	38	37	33	24.8
Vinton	MAX	30	38	39	51	45	38	44	42	38	33	30	31	44	38	30	32	32	32	38	59	56	49	43	68	66	54	52	67	62	44	44	44.2
	MIN	0	23	33	34	35	28	20	34	25	22	15	12	19	19	8	18	8	10	14	29	44	32	29	37	38	37	37	29	40	41	34	25.9
Washington	MAX	35	37	41	59	50	38	45	47	37	34	32	37	46	37	30	34	34	34	33	60	62	53	44	70	69	55	57	70	65	58	49	46.8
	MIN	8	20	33	35	33	29	20	37	25	21	20	14	19	22	10	21	16	18	16	28	45	33	30	36	39	42	39	35	45	39	36	27.9
Waterloo	MAX	29	35	36	40	40	32	40	40	37	32	27	36	34	34	23	25	35	26	31	49	51	49	40	65	58	46	49	62	54	43	38	39.9
	MIN	4	23	32	33	29	24	20	31	23	20	16	11	19	16	6	18	6	15	15	28	41	31	28	35	36	37	35	29	39	38	35	24.9
Waukeo	MAX	37	42	44	58	50	47	46	42	34	33	28	39	43	38	27	34	35	34	32	67	57	46	40	68	60	55	55	68	65	48	45	45.7
	MIN	10	25	27	34	36	35	25	32	26	23	21	22	24	17	11	24	19	20	21	27	46	23	35	40	38	42	37	35	41	42	33	28.7
Waukon	MAX	27	37	35	47	39	35	38	38	36	28	27	36	39	33	27	30	33	27	36	52	50	45	39	60	59	43	43	59	51	39	36	39.5
	MIN	0	16	26	29	30	17	14	30	14	12	9	7	16	9	-1	10	7	10	7	26	38	25	22	30	31	31	30	26	33	32	26	19.7
Webster City	MAX	33	41	41	52	44	37	45	42	33	29	29	38	39	31	26	30	29	32	31	62	57	39	39	64	57	51	52	61	55	40	38	41.8
	MIN	7	27	29	32	33	27	21	30	22	20	19	14	22	14	6	19	3	11	15	26	38	30	28	37	35	36	34	29	37	37	32	24.8
Williamsburg	MAX	31	39	39	54	48	35	44	48	36	33	28	36	45	35	29	30	32	33	60	58	50	42	68	66	51	52	67	59	48	43	44.2	
	MIN	4	19	32	33	33	25	18	33	24	20	16	12	17	16	7	16	8	13	13	25	43	33	30	37	39	42	38	33	42	40	36	25.7
Winterset	MAX	40	42	44	60	55	41	45	44	34	33	31	40	42	40	26	35	34	34	34	65	58	50	41	69	68	56	57	69	68	52	51	47.0
	MIN	10	25	30	30	35	30	25	32	25	18	18	20	24	21	7	23	18	18	23	28	45	31	30	39	35	40	35	35	40	40	33	27.8
Woodward 7 N	MAX	35	42	42	52	47	37	45	42	34	31	29	38	43	35	26	29	29	31	32	64	54	45	39	65	58	51	54	65	60	44	42	43.2
	MIN	8	28	28	34	33	29	24	32	23	22	19	22	22	16	7	22	13	15	20	27	42	31	29	37	35	40	35	31	39	38	32	26.9

SOIL TEMPERATURES AT AMES, IOWA March, 1949

Temperature	4 feet above ground	Soil Depth					
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches
Average 7 a.m.	28.9	28.8	28.9	31.1	31.2	32.0	
Average 12 noon	37.8	37.0	36.6	32.9	31.3	32.0	
Average 7 p.m.	34.8	34.4	35.1	34.2	31.6	32.1	35.0
Highest	64	55	53	48	37	34	36
Date	24+	28	28	28	28+	30+	28
Lowest	6	10	10	21	27	31	34
Date	1	15	15	1	1+	1+	1
Number of days with temperature							
0° or lower	0	0	0	0	0	0	0
24° or lower	14	6	6	2	0	0	0
32° or lower	21	23	23	22	27	27	0
40° or higher	17	12	11	5	0	0	0
50° or higher	8	2	1	0	0	0	0
60° or higher	3	0	0	0	0	0	0
90° or higher	0	0	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°.

Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

STATION INDEX

IOWA
MARCH 1949

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Atton	0064	Union	8 41 02	94 12	1200	6P	6P	Dave Henderson	2 3 5	Maquoketa 4 mi. NW	5131	Jackson	12 42 09	90 43	684	5P	5P	State Police Radio	2 3 5		
Akron	0086	Plymouth	1 42 49	96 33	1193	6P	6P	Orlan C. Moore	3 3 5	Marion 4 mi. NE	5163	Linn	4 43 03	91 33	858	5P	5P	Hybrid Seed Corn Co	2 3 5		
Albia	0112	Monroe	8 41 02	92 48	949	6P	7A	Arthur L. Freed	2 3 5	Marshalltown No. 1	5193	Marshall	10 42 03	92 54	858	6P	7A	George C. Johnson	2 3 5		
Algon	0133	Kossuth	8 43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5	Marshalltown No. 2	5198	Marshall	10 42 04	92 56				Raymond H. Hoops	2 3 5		
Allerton	0149	Wayne	9 40 42	93 23				Norman E. Reddy	3 4	Mason City 3 mi. W	5230	Cerro Gordo	4 43 11	93 12	1148	6P	6P	Am. Cry. Sugar Co.	2 3 5		
Allison	0157	Butler	4 42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Mason City AP CAA	5235	Cerro Gordo	4 43 09	93 20	1194	MID	MID	Airways Com. Sta.	2 3 5		
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Merrill 5 mi. W	5418	Plymouth	7 42 43	94 20				Art. Husted	3		
Alton	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. B. Blagie	2 3 5	Wilford 4 mi. NW	5493	Sickliss	18 43 23	95 11	1403	7P	7P	A. C. McKinstry	2 3 5		
Ames 3 mi. SW	0205	Story	21 42 00	93 39	1004	7P	7P	Charles H. Brown	2 3 4 5 6	Willerton	5517	Wayne	5 40 50	93 18	1070	6P	6P	J. C. Davis	2 3 5		
Anamosa 1 mi. NW	0213	Jones	27 42 07	91 16	873	7P	7P	State Reformatory	2 3 5	Missouri Valley	5584	Harrison	3 41 33	95 54	1066	7P	7P	F. S. William Foreman	2 3 5		
Atlantic 1 mi. E	0284	Cass	16 41 24	94 59	1110	6P	7A	Roy L. Fancolly	2 3 5	Monmouth 4 mi. SW	5622	Jones	12 42 03	90 55	670	7P	7P	Arnold Bisweger	2 3 5		
Atlantic AP CAA	0369	Cass	16 41 24	95 03	1152	MID	MID	Airways Com. Sta.	2 3 4 5	Monona	5630	Clayton	14 43 03	91 23				Mrs. Anna W. Walter	3 4		
Audubon 2 mi. S	0385	Audubon	16 41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Monroe	5638	Jasper	6 41 31	93 06	822	6P	6P	J. A. Dibul	2 3 5		
Augusta	0389	Des Moines	21 40 46	91 17	523	5A	5A	Glen Wood	3	Morse	5723	Johnson	10 41 44	91 26				Margaret E. Miller	3 4		
Aurora	0463	Kossuth	8 43 18	94 13	1200	7P	7P	Wilbur Fox	2 3 5	Morse 1 mi. NE	5737	Johnson	10 41 48	91 25				Lawrence J. Wall	2 4		
Bartlett 3 mi. E	0493	Freemont	26 40 53	95 44				E. L. Kilpatrick	3	Norac 4 mi. SW	5742	Johnson	10 41 41	91 28				L. J. Fuhrmeister	3 4		
Beaver	0549	Boone	6 42 02	94 05				Kermit K. Ballard	3 4	Norway 2 mi. W	5769	Ringgold	9 40 44	94 14	1214	6P	6P	H. L. Cornelison	2 3 5		
Bedford 1 mi. S	0576	Taylor	28 40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Mount Pleasant	5796	Henry	21 40 57	91 32	730	6P	6P	A. M. Patterson	2 3 5		
Belle Plaine	0600	Benton	10 41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Noville	5823	Woodbury	11 42 39	96 04				Elmer W. Widmark	2 3 5		
Bellevue Lock & Dam 12	0608	Jackson	14 42 18	90 25	603	7P	7A	D. B. Engineers	2 3 4 5	Muscataine No. 1	5837	Muscataine	14 41 26	91 03				F. J. Hauerbach	2 3 5		
Blackton 2 mi. S	0745	Taylor	19 40 36	94 29	1061	5P	5P	Glen A. Cobb	3	Muscataine No. 2	5842	Muscataine	14 41 25	91 03	548	7A	7A	Clifford McKee	3		
Bloomfield 2 mi. W	0753	Davis	8 40 47	92 26	825	7P	7P	Mrs. Lee Foster	2 3 5	Muscataine 3 mi. NW	5852	Muscataine	27 43 04	92 19	1136	7P	7P	Loddy Hrdlicka	2 3 5		
Boone	0807	Boone	6 43 04	92 53	1126	6P	6P	E. G. Kolb	2 3 5	New Hampton	5953	Chickasaw	21 41 42	93 04	930	7P	7P	Al A. Scheel	2 3 5		
Britt	0923	Hancock	10 43 04	93 48	1234	6P	6P	Rev. B. A. Bunt	2 3 5	Newton	5992	Jasper	4 41 29	92 05	789			Ernest E. Andrews	3 4		
Burlington WB Airport	1063	Des Moines	14 40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5	North English	6076	Iowa	4 41 29	92 05							
Carell	1233	Carroll	20 42 04	94 53	1280	7P	7A	Don H. Schenkelberg	2 3 5	Northwood	6103	Worth	4 43 27	93 13	1228	7P	7P	Charles A. Walker	2 3 5		
Cascade	1277	Dubuque	12 42 18	91 00	880	7P	7P	C. J. Weira	2 3 4 5	Norwich SCS Exp Farm 2E	6119	Page	22 40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5		
Castana 4 mi. E	1277	Monona	11 42 04	95 49				Bob Zimmerman	2 3 5	Oakland 2 mi. E	6151	Pottawattami	16 41 19	95 23	1150	6P	6P	Ed. D. Reinske	2 3 5		
Cedar Falls	1300	Black Hawk	4 42 33	92 27	875	7P	7P	S. J. Cable	3	Osaka	6180	Johnson	10 41 43	91 24				Ward. Saders	3 4		
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster	2 3 5	Osceola	6200	Payette	27 42 40	91 55	1036	6P	6P	Milo M. Frase	2 3 5		
Cedar Rapids No. 2	1324	Linn	4 41 59	91 40				C. M. Simon	3	Osage	6243	Monona	15 43 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5		
Centerville	1354	Appanoose	3 40 43	92 53				Earl McIntire	2 3 4 5	Osage	6305	Mitchell	6 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5		
Chariton 3 mi. E	1394	Lucas	5 41 09	93 15	940	7P	7P	Willa Shaw	2 3 5	Osceola	6316	Clarke	6 41 02	93 46	1136	6P	6P	Ray A. Kuras	2 3 5		
Charles City	1402	Floyd	4 43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Oskaloosa	6327	Clarke	6 41 17	92 40	813	6P	6A	Cliff. Bergstrom	2 3 5		
Cherokee	1442	Cherokee	11 42 45	95 33	1250	7P	7P	J. Earl Wirth	2 3 4 5 6	Ottumwa 1 mi. WSW	6388	Wapello	5 41 01	92 26	649	7P	7P	C. L. Mikesch	2 3 4 5		
Clarinda	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Ottumwa AP CAA	6389	Wapello	6 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5		
Clarion	1541	Wright	3 42 44	93 44	1170	7P	7P	George Reeder	3 5	Ottumwa	6391	Wapello	6 41 00	92 24	620	7A	7A	Winfrey Kinross	3		
Clinton No. 1	1635	Clinton	14 41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5	Ottumwa	6568	Dallas	20 41 51	94 08	975	7P	7P	Eugene W. Bastie	2 3 5		
Clinton No. 2	1640	Clinton	14 41 50	90 11				David M. Swift	3	Perry 2 mi. SE	6719	Pocahontas	6 42 44	94 40	1238	5P	5P	Thomas A. Mc Mahon	2 3 5		
Columbus Junction	1731	Louisa	10 41 17	91 23	595	6P	6P	Alice Best	2 3 5	Pocahontas	6800	O'Brien	11 43 05	95 36	1517	6P	6P	R. A. Ballard	2 3 5		
Coom Rapids	1793	Carroll	20 41 51	94 39				Charles W. Smith	3 4	Red Oak	6940	Montgomery	16 41 01	95 13	1077	9P	MID	Clarence W. Totty	2 3 5		
Corning 2 mi. E	1833	Adams	17 41 00	94 43	1285	6P	6P	John W. Morris	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16 41 01	95 14				Mrs. E. W. Conrad	3		
Council Bluffs 6 mi. NE	1888	Pottawattami	41 20	95 49				Mrs. H. O. Crane	3 4	Remsen	6975	Plymouth	7 42 49	95 58				Municipal P. & L. Pl.	3 4		
Council Bluffs 5 mi. NE	1889	Pottawattami	41 19	95 49				Perry C. Crandall	2 3 5	Ringsted 5 mi. NW	7058	Kumst	6 43 21	94 32				Ivan D. Watts	3 4		
Cresco	1954	Howard	23 42 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Riverton	7085	Prescott	16 40 41	95 35	920	7P	7P	William Stubbs	3		
Creston	1982	Union	19 41 03	94 22	1300	7P	7A	Welle Spangler	2 3 5	Rock Rapids	7147	Lyon	1 42 36	96 10	1341	7P	7P	George Ravelling	2 3 5		
Cumberland 5 mi. NW	2007	Cass	17 41 18	94 55	1235	6P	6P	Carl E. Pollock	3	Rockwell City	7161	Calhoun	20 42 24	94 37	1223	7P	7P	F. C. Reitelshpeker	2 3 4 5		
Cushing 3 mi. NE	2026	Ia	11 42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sac City	7312	Sac	20 42 26	94 59	1374	6P	6P	W. Floyd Feary	2 3 5		
Dakota City	2037	Humboldt	6 42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Saint Ansgar 2 mi. WNW	7326	Mitchell	4 43 24	92 56				Donald R. Cowell	3 4		
Davenport WB City	2065	Scott	14 41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5	Saint Charles	7340	Madison	6 41 16	93 47				Pulaski S. Wise	3 4		
Decorah Dry Run	3110	Winnebago	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Sanborn	7386	O'Brien	7 43 11	95 39	1553	7P	7P	Wes Swain O'Dow	2 3 5		
Decorah 2 mi. S	3112	Winnebago	24 43 13	91 47	860	7P	7A	Charles Carlson	2 3 5	Shawfield	7572	Franklin	4 42 54	93 13	1170	6P	6P	Richard J. Galvia	2 3 5		
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Sheldon	7594	O'Brien	7 43 10	95 51	1418	7P	7P	Ross E. Forward	2 3 5		
Delmon 2 mi. S	2171	Crawford	4 42 00	95 23	1307			E. M. Hugg	2 3 5	Shell Rock	7602	Butler	4 42 43	92 35	974	6P	6P	Emmet J. Apfel	2 3 4		
Derby	2195	Lucas	5 40 56	93 27				Lloyd A. Kirk	3 4	Shenandoah	7613	Page	16 40 46	95 23				Earl Ray Seed Co.	2 3 5		
Des Moines WB Airport	2203	Polk	6 41 32	93 39	354	MID	MID	U.S. Weather Bureau	2 3 4 5	Sibley	7694	Osceola	1 43 24	95 45	1494	6P	6P	H. D. Stewart	2 3 5		
Des Moines WB City	2208	Polk	6 41 32	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5	Sigourney	7678	Keokuk	21 41 20	92 12	780	7P	7A	Grace L. Sanderson	2 3 5		
Dexter	2311	Allamakee	24 43 25	91 32				Joseph R. Harlan	3 4	Sioux Center	7700	Sioux	1 43 05	96 10	1456			Richard J. Kroon	3 4		
Dorchester	2346	Dubuque	14 42 32	90 39	618	7P	7A	U.S. Engineers	2 3 5	Sioux City 8 mi. N	7703	Plymouth	15 42 26	94 24				Leo Vondrak	2 3 5		
Dubuque Lock & Dam 11	2369	Dubuque	14 42 30	90 40	641	MID	MID	U.S. Weather Bureau	2 3 4 5	Sioux City WB Airport	7708	Woodbury	15 42 23	96 23							



REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the Tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- S Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., -- Kansas City -- 6-24-49 -- 1350

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In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

APRIL 1949

Volume LX No. 4



KANSAS CITY: 1949

IOWA - APRIL, 1949

C. E. Lamourex, Section Director - Des Moines

GENERAL SUMMARY

The weather during the month of April was rather dry with temperatures averaging very near the seasonal normal. Practically every point in the State received deficient amounts of rainfall as monthly totals ranged from an average of one inch in the northwest to 1 1/2 inches in the northeast. Individual station amounts varied from .65 inches at Lake Park in Dickinson county to 2.65 inches at Harlan in Shelby county. Most of the moisture occurred in three precipitation periods, the 14th, 21st and the 25th. However, the deficient moisture pattern had little effect on the agricultural situation; in fact, with the many days of open weather, Iowa farmers accomplished much of spring plowing and spring seedings in short order.

The first 13 days of the month were pleasant and dry. Temperatures fluctuated near the seasonal level until the last three days when the readings rose into the 70's and 80's (or 10 to 15° above normal). No rain of consequence fell during this period.

Early on the 13th of the month, a deep low pressure disturbance formed over the Oklahoma panhandle which was soon to affect the entire weather over the midwest, as well as Iowa. By early morning of the 14th, the center of this fairly intense low pressure system had moved to northwestern Missouri. Rain developed rapidly along an arc from northwest Iowa into Nebraska. Then as cold air advected into the area, the rain changed to moderate to locally heavy, wet snow. As the storm center passed through southeast Iowa, strong and gusty northerly winds accompanied the snow; and these conditions disrupted highway travel causing rather extensive damage to power and telephone lines. Locally, during the storm, thunder, hail and sleet were also reported. Snowfall amounts of two inches were general except in the extreme southeast where the snow melted as it fell. From Woodbury county in the west to Winneshiek county in the northeast, snowfall amounts from six to eight inches were reported with the heaviest fall of 10 inches reported at Fayette. The strong winds drifted the snow, blocking many highways, particularly in the heavy snow belt. However, the snow provided the needed moisture for small grain and spring seedings. Moisture amounts for the storm were generally over 1/2 inch with 1 inch amounts across the area receiving the heavier amounts of snow. Temperatures remained very close to the freezing level during the entire snow storm but by the morning of the 16th, readings in the low or middle 20's were general. In the Muscatine area, it was reported that tomato growers lost 20% or about 400,000 plants as a result of this severe freezing weather. Freezing temperatures occurred daily through the 19th and again in northern Iowa on the morning of the 24th.

The last ten days of the month were a period of above normal temperatures. Besides being mild, the period was marked by considerable sunshine, and a number of days of rather strong but drying winds. On the 21st, widespread light rains totalling 1/3 inch occurred while on the 25th, spotted light showers were reported, with the most significant rains occurring in an area from western Pottawattamie county through Shelby to Greene county. Within this latter area, Jefferson reported 1.49 inches and Harlan 1.40 inches. Ninety degree temperatures were also reported on the 25th except in the extreme northeast. The State high was 91° at both Webster City and Onawa on that date. --MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Station which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
APRIL 1949

Station	Sea level pressure extremes—_inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	
Burlington WB Airport	30.36	28	29.35	14	11.4	45	NW	17	70	79	48	52	69	440
Charles City WB City	30.39	28	29.63	13	6.9	28	NW	23					78	513
Davenport WB City	30.39	28	29.43	14									427	
Des Moines WB City	30.37 a	28	29.51 a	14	9.9	36	N	14	69 a	78 a	48 a	49 a	65	431
Dubuque WB City	30.40	28	29.55	14	6.0	23	NW	23	69	77	44	46	73	471
Sioux City WB Airport	30.31	28	29.44	30	11.1	37	S	30	76	84	46	43	76	450

a--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	43.2	83	24	3.13			1903	49.8	86	17	2.98	0.8	9	1933	48.8	85	16	1.21	0.2	9
1874	41.9	76	16	1.90			1904	44.1	86	13	3.63	1.4	7	1934	50.4	90	12	1.07	T	7
1875	43.0	77	10	2.20			1905	47.5	90	10	3.03	1.2	8	1935	46.7	86	15	1.92	0.4	8
1876	48.1	78	24	3.06			1906	52.5	94	22	2.42	0.6	8	1936	45.9	92	0	1.10	3.9	8
1877	47.5	91	14	3.33			1907	41.5	80	10	1.32	2.7	6	1937	47.7	85	20	3.20	2.1	10
1878	52.4	82	26	3.14			1908	50.5	91	8	2.24	0.3	8	1938	50.3	87	15	3.66	3.7	10
1879	50.3	88	12	1.13			1909	43.8	86	14	4.58	3.1	12	1939	47.8	93	10	2.07	1.9	7
1880	47.9	92	15	2.08			1910	52.5	99	15	1.48	3.0	7	1940	47.5	89	10	3.22	0.2	11
1881	42.5	84	10	2.26			1911	46.8	86	3	3.09	3.6	9	1941	53.8	86	25	2.50	T	10
1882	48.8	91	20	3.73			1912	49.9	84	20	2.66	1.1	8	1942	54.8	90	19	1.06	T	5
1883	49.9	90	24	2.25			1913	50.2	88	16	3.29	2.7	9	1943	49.0	88	17	2.57	T	8
1884	46.8	86	18	2.54			1914	48.6	88	11	2.52	0.3	8	1944	45.0	78	14	4.55	0.4	13
1885	47.5	80	16	2.94			1915	57.2	95	18	1.41	T	7	1945	48.7	83	11	4.38	4.3	9
1886	50.3	88	4	2.70			1916	47.1	90	11	2.62	1.1	10	1946	53.9	91	15	1.23	0.5	5
1887	51.1	94	9	1.38			1917	45.5	88	17	4.55	3.8	11	1947	47.0	85	19	5.06	1.5	11
1888	48.8	90	20	2.65			1918	44.8	79	12	2.32	3.5	9	1948	54.5	93	17	2.66	.0	8
1889	50.3	86	10	2.35			1919	48.4	81	20	4.78	0.7	14	1949	49.3	91	4	1.33	3.6	5
1890	51.2	88	2	1.73			1920	42.4	78	22	4.59	2.0	12	Period	48.9	99	- 8	2.74	1.6	8
1891	50.6	93	13	2.15	5.7	8	1921	52.4	88	14	3.34	3.6	10							
1892	45.4	88	14	4.75		9	1922	49.9	87	21	3.06	1.0	9							
1893	45.5	96	15	4.21	6.0	10	1923	48.4	85	11	2.09	0.8	8							
1894	51.7	93	12	3.07	0.2	9	1924	50.5	90	- 8	1.38	1.4	7							
1895	54.2	98	8	2.62	2.1	5	1925	56.5	95	21	2.20	T	8							
1896	54.5	94	10	5.02	4.5	11	1926	46.1	95	9	0.91	1.5	4							
1897	47.9	89	19	5.35	T	11	1927	49.2	91	15	4.84	2.6	14							
1898	48.1	91	14	2.56	T	8	1928	44.3	88	6	2.24	4.9	8							
1899	48.9	89	1	2.40	2.0	7	1929	51.2	93	9	4.62	1.1	11							
1900	52.2	89	19	2.67	0.9	6	1930	52.1	96	5	2.67	0.3	9							
1901	49.9	92	15	1.79	2.0	5	1931	50.9	92	17	2.29	0.1	8							
1902	48.2	96	9	1.71	T	5	1932	50.0	84	21	1.96	T	7							

EVAPORATION AND WIND MOVEMENT

Table 6

Station		Day of month																															Total	Departure from normal
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ames 3 SW	EVAP	.09	.12	.13	.18	.11	.14	.20	.15	.18	.16	.15	.21	.17	*	*	.02	.08	.13	.19	.14	.08	.28	.23	.39	.26	.19	.25	.27	.25	4.75			
	WIND	74	54	54	65	65	49	59	45	68	83	26	45	24	138	155	66	97	88	49	95	134	86	111	75	170	110	34	55	81	2309			
Cherokee	EVAP	.11	.12	.14	.19	.11	.18	.23	.16	.13	.07	.18	.27	*	*	.24	.08	.04	.02	.18	.22	.05	.16	.31	.22	*	*	.13	.27	.27	4.29			
	WIND	50	34	46	111	94	115	119	37	66	31	22	133	67	203	66	92	192	72	145	153	44	194	160	77	179	77	29	73	82	2787			
Iowa City	EVAP	.10	.10	.05	.23	.18	.13	.23	.17	.16	.18	.19	.14	.19	.13	.04	.07	.13	.09	.09	.14	.16	.14	.30	.19	.20	.23	.21	.23	.25	4.89			
	WIND	118	38	56	36	68	36	96	69	46	101	41	16	39	84	249	42	134	166	29	50	56	68	117	66	96	103	48	60	33	2223			

CLIMATOLOGICAL DATA

IOWA
APRIL 1949

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	48.5	1.2	88	25	25	16		14	1.41	- 1.24	.50	26	6.0	6	15	6	3	
Alton	50.3	3.0	89	25	23	16		12	1.30	-.94	.45	14	3.0			4	3	
Cherokee	48.5	1.0	89	25	23	16		13	1.27	- 1.05	.66	14	7.5	6	14	4	3	
Emmetsburg	48.1		90	25	23	16+	1	13	1.73		1.30	14	6.0	3	14	3	2	1
Estherville	47.7	.7	88	25	21	2		15	1.19	- 1.18	.50	15	4.5	4	15	6	2	
Hawarden	50.2	1.9	90	25	23	2	1	13	.88	- 1.47	.54	14	.1	7	14	3	2	
Inwood 2 W	47.6	.1	90	25	18	1	1	17	.67	- 1.57	.41	14	1.0	2	1	3	1	
Lake Park	47.0	1.8	86	25	22	1+		14	.65	- 1.52	.35	21	3.0			2	2	
Le Mars	50.2	1.9	89	25	24	2		12	1.02	- 1.44	.66	14	5.0	2	14	2	2	
Milford 4 NW	46.6	.8	89	25	13	16		13	.72	- 1.63	.40	21	2.0	1	14	4	2	
Pocahontas 2 SE	50.2M	2.2							.86	- 1.76	.48	25				4	1	
Pringhar	48.4	1.4	89	25	24	2		13	1.08	- 1.42	.36	26				4	3	
Rock Rapids	47.6	.8	89	25	18	2		13	1.07	- 1.55	.56	14	2.0	3	1	3	2	
Sanborn	46.9	.7	87	25	20	2		15	1.51	- 1.15	.52	14	3.0	2	14	4	3	
Sheldon	48.1	1.6	89	25	23	19		14	.98	- 1.52	.57	14	4.0	2	14	3	2	
Sibley	47.3	1.3	87	25+	22	2+		16	1.01	- 1.30	.66	14	2.5	2	14	3	1	
Sioux Rapids	48.4	1.4	90	25	23	2	1	15	1.22	- 1.53	.65	14	5.0	5	14	2	2	
Spencer 1 N	46.7	.5	90	25	21	19	1	17	1.41	- 1.41	.91	14	4.0			4	2	
Storm Lake 2 E	47.9	.5	86	25	24	1+		15	1.01	- 1.53	.55	26	2.0	2	14	4	2	
DIVISION	48.2	1.2							1.10	- 1.37								
NORTH CENTRAL DIVISION																		
Algona	48.5	.9	89	25	22	16		15	.94	- 1.49	.57	14	4.0	4	14	5	1	
Allison	49.3M	2.2	90	25	22	16	1	12	1.17	- 1.16	.42	15	6.0	3	15	5	3	
Britt	45.6	- 1.2	90	25	20	16	1	18	1.25	-.93	.62	14	8.5	6	15	5	2	
Charles City	47.9	1.2	89	25	22	16		13	1.54	- .89	1.01	14	5.0	3	14	7	1	1
Clarion	47.7	-.1	90	25	20	16	1	16	1.25	- 1.35	.45	26	6.0	4	14	4	2	
Dakota City	48.4	.3	90	25	21	16	1	14	1.99	-.33	1.51	14	6.7	6	14	3	2	1
Hampton	49.0	2.0	89	25	26	2+		15	1.87	-.99	1.00	15	4.0	4	15	5	3	1
Mason City 3 N	46.5	0.0	89	25	19	16		17	.89	- 1.32	.73	14	7.0	6	14	4	1	
Mason City AP CAA	46.1	-.4	89	25	19	16		18	1.18	- 1.03	.90	14	8.3	3	14+	5	1	
Northwood	46.9	1.0	85	25	22	16		15	1.16	- 1.40	.52	15	6.0	4	15	7	1	
Osage	47.0	1.2	86	25	19	16		17	1.48	-.96	1.05	15	4.5	4	15	4	1	1
DIVISION	47.5	0.6							1.34	- 1.08								
NORTHEAST DIVISION																		
Cascade	47.9		80	25+	18	16		14	1.71				2.0	2	15	6		
Cresco	47.8	2.3	82	25	17	16		13	2.10	-.33	.87	15	6.2			6	2	
Decorah Dry Run	47.3		82	30	12	16		17	.92		.30	14	6.0	6	15	5	1	
Decorah 2 S	44.7	-.1	78	30	9	16		21	.93	- 1.53	.30	20	6.0	6	15	5	2	
Delaware 2 W	46.6	0.0	82	25	15	16		18	1.63	-.99	1.00	15	2.0	2	15	6	1	1
Dubuque 1 & D 11	47.1	- 1.6	78	25	23	2		10	1.70	-.86			7.0	5	15	10		
Dubuque WB City	49.4	.7	81	25	26	16		8	1.94	-.82	.66	14	5.8	2	15	8	3	
Elkader	47.1	-.5	82	27	13	16		16	2.00	-.80	.54	15	5.0	5	15	7	3	
Fayette	46.5	-.4	84	25	4	16		17	1.90	-.76	.99	15	10.0	8	15	8	2	
Guttenberg L & D 10	48.5	-.1	82	25	19	16		12	1.65	-.90	.47	15	2.0	2	15	8	2	
Independence 2 W	48.5	.6	86	25	18	16		13	1.42	-.90	.59	15	8.0	8	15	8	3	
New Hampton	44.8	- 1.9	84	25	12	16		20	1.14	- 1.25	.68	15	6.0			5	2	
Oelwein	48.0	.7	85	25	13	16		16	1.52	- 1.04			6.0			6		
Tripoli	48.7		87	25	18	16		14	1.96		1.12	15	4.0			7	3	1
Waterloo	48.5	.1	90	25	19	16	1	16	1.11	- 1.23	.70	15	4.0	4	15	5	2	
Waukon	45.2	- 1.4	77	30	17	16		17	.86	- 1.60	.31	22	3.0	3	15	3	3	
DIVISION	47.3	0.2							1.53	-.96								
WEST CENTRAL DIVISION																		
Audubon 2 S	48.2	-.7	87	25	24	15		12	2.15	-.23	.94	14	6.0	6	14	4	3	
Carroll	50.3	1.9	89	25	25	16		14	.95	- 1.37	.42	14+	3.0			4	2	
Castana 4 E	49.5		81	25	24	16		10	.98		.61	14	5.5	5	14	4	1	
Cushing 3 NE	48.9	.6	88	25	23	16		13	2.04	-.23	1.40	14	7.0	6	14	5	3	1
Denison 2 S	49.0	-.1	89	25	23	16		13	.90	- 1.32	.47	14	5.0	3	14	4	1	
Guthrie Center	50.0	.3	88	25	25	16		11	1.34	- 1.08	.54	14	3.0	3	14	3	3	
Harlan	50.5	.5	88	25	23	19		12	2.65	-.29			8.0	8	14	7		
Ida Grove 4 S	49.5M	.9	90	25	25	16	1	11	1.72	-.55	1.07	14	6.0	6	14	5	2	1
Jefferson	49.4	.9	88	25	23	16		14	2.50	-.02	1.49	26	6.5	6	14	3	3	1
Lake City	48.6M	.1	90	25	24	16	1	15	.97	- 1.33	.38	26				4	2	
Logan	50.8	-.1	89	25	26	16		12	1.53	-.81	1.01	14	5.0	3	14	4	2	1
Mapleton 5 NW	49.7	.7	89	25	25	16		14	.88	- 1.42	.50	14	2.5	2	14	3	1	
Missouri Valley	53.5	2.1	89	25	29	1+		11	1.51	-.67	.88	14	4.5	4	14	6	1	
Onawa	51.2	.7	91	25	26	1+	1	12	1.18	- 1.32			4.0	3	15	5		
Rockwell City	48.7	.3	89	25	26	16		14	.87	- 1.63	.58	14	5.5	4	14	4	1	
Sac City	50.4	1.8	90	25	26	2	1	11	1.22	- 1.03	.77	14	7.5	5	14	3	2	
Sioux City WB Airport	50.3	1.2	89	25	27	1+		13	1.79	-.49	1.10	14	6.2	3	14	6	2	1
DIVISION	49.9	0.5							1.48	-.86								
CENTRAL DIVISION																		
Ames 3 SW	48.9	-.1	90	25	24	16	1	13	1.14	- 1.47	.51	14	4.0	4	14	5	2	
Boone	50.4	1.5	89	25	28	16		11	1.33	- 1.30	.61	14	6.0	5	14	4	3	
Des Moines WB Airport	50.6	1.4	88	25	26	16		8	1.07	- 1.49	.59	14	2.0	7	14	5	2	
Des Moines WB City	50.8	.8	88	25	28	16		7	1.13	- 1.43	.63	14	1.5	7	14+	4	2	
Fort Dodge	48.6	.8	90	25	21	16	1	15	1.58	-.87	1.12	15	6.0	6	15	4	2	1

CLIMATOLOGICAL DATA

IOWA
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Table 2-Continued

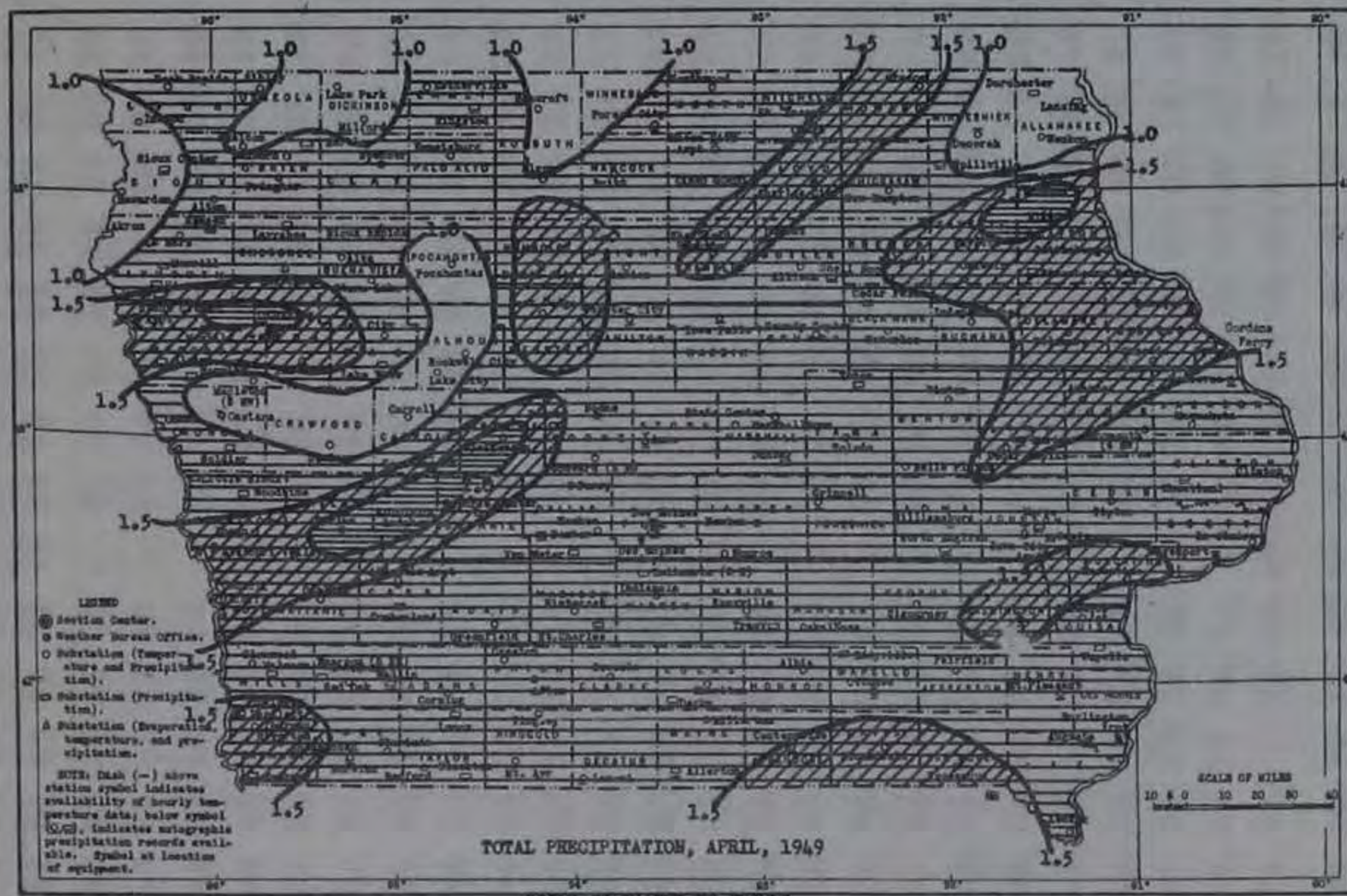
Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Grinnell	49.4	-.2	88	25	21	16+	12	1.35	-1.63	.97	15	3.0	3	15	4	2		
Grundy Center 4 NE	48.7	1.1	90	25	21	16	15	1.37	-1.27	.99	15	6.0	6	15	3	2		
Iowa Falls 1 N	47.9	.5	90	25	25	19	16	1.30	-1.20	.75	15	3.5	2	15	4	2	1	
Marshalltown No.1	48.7	.3	90	25	21	16	1	.87	-1.85	.39	15							
Newton	50.3	-.4	89	25	24	16	12	1.09	-1.82			3.0	3	15	5			
Perry 2 SE	49.0	0.0	90	25	23	16	1	1.29	-1.26	.55	14	3.0	2	14+	4	3		
State Center	50.2	1.2	89	25	24	16	9	.97	-1.82	.37	26	3.5	3	15	5	2		
Toledo	49.5	.4	89	25	22	16	13	1.12	-1.58	.49	15	5.0	1	15	5	2		
Wauke	50.9	1.3	88	25	28	16	8	1.25	-1.68	.55	14	3.0			4	2		
Webster City	48.7	1.1	91	25	20	16	1	1.11	-1.45	.66	14	4.0			3	2		
Woodward 7 N	50.2	1.3	90	25	25	16	1	.94	-1.61	.31	14	2.0	2	15	4	3		
DIVISION	49.6	.7						1.18	-1.51									
EAST CENTRAL DIVISION																		
Anamosa 1 NW	47.5	-.1	85	25	16	16	14	1.52	-1.08	.60	15	3.0	2	15	6	3		
Belle Plaine	49.1	0.0	89	25	21	16	13	1.21	-1.68	.46	14	3.5	1	15	6	2		
Bellevue L & D 12	48.1	.4	79	25	15	16	12	1.37	-1.28	.70	15	1.0	1	15	7	1		
Cedar Rapids No.1	49.3	.3	87	25	17	16	12	1.70	-.82	.99	15	5.3	4	15	6	2		
Clinton No. 1	50.3	.5	82	25	22	16	8	1.34	-1.61	.85	15	2.0	2	15	5	2		
Davenport WB City	50.8	.7	81	25	25	16	4	1.35	-1.51	.60	14	2.3	1	15	7	2		
Iowa City	49.8	.4	87	25	22	16	10	1.31	-1.61	.61	15	1.0	T	15	6	3		
Iowa City AP CAA	48.2	-1.2	86	25	17	16	15	1.02	-1.90	.53	14	1.1	T	15+	5	2		
Le Claire L & D 14	49.8		78	25	23	16	5	1.40	-1.57	.81	15	2.0	1	15+	6	2		
Maquoketa 5 E	48.7	.8	79	25	18	16	11	1.47	-1.26	.68	15	4.5	3	15	7	2		
Monmouth 4 SW	48.0	-.2	81	25+	18	16	15	1.35	-1.35	.43	14+	1.0	1	15	5	2		
Muscatine No. 1	51.1	1.1	84	25	24	16	8	1.60	-1.35	.53	22	1.0	1	15	5	3		
Tipton	49.5	.6	84	25	18	16	11	.91	-2.03	.53	22	4.0	2	15	5	3		
Vinton	48.9	-.6	89	25	19	16	14	1.05	-1.35	.40	15	2.0			3	3		
Williamsburg	49.6 M	-.1	88	25	23	16	9	1.23	-1.57	.48	14	2.0			6	2		
DIVISION	49.2	.3						1.32	-1.44									
SOUTHWEST DIVISION																		
Atlantic 1 E	50.0	0.0	87	25	22	16+	15	1.64	-.91	.63	26	3.0	2	14	6	3		
Atlantic AP CAA	48.1	-1.9	87	25	24	4+	17	1.36	-1.19	.49	14	2.8	3	14	5	3		
Bedford 1 N	51.3	.3	85	25	25	16	9	1.55	-1.19			5.0	5	15	3	2		
Clarinda	51.2	0.0	88	25	26	4+	11	.88	-2.72	.55	15	3.0			3	2		
Council Bluffs 5 NE	51.9		88	25	26	4	12	1.51		.51	14	2.5	2	14	6			
Glenwood 2 E	51.5	-.4	88	25	27	4+	11	1.32	-.64	.48	21	2.0	T	15	5	2		
Greenfield	49.9	.4	87	25	25	16+	9	1.52	-1.40	.54	14	2.5			5	3		
Norwich 2 E SCS Farm	51.9	.7	87	25	26	16	7	1.39	-1.21	.61	14	3.0	3	14	5	3		
Oakland 2 E	50.1 M	-.8	79	30	24	16	13	1.24	-1.01	.49	14	2.0	2	14	5	2		
Red Oak	50.2	-1.0	86	25	24	4	14	1.26	-1.37	.50	14	2.5	2	14	5	2		
Shenandoah	52.2	.2	89	25	27	4+	8	1.59	-1.01	.70	14	2.0	2	14	7	3		
Sidney	55.0 M		83	25+	30	14+	6	1.56		.47	14	2.0			5	3		
DIVISION	51.1	.1						1.40	-1.13									
SOUTH CENTRAL DIVISION																		
Afton	49.4	-1.3	86	25	22	16	13	1.07	-2.06	.70	14	2.0	2	14	3	2		
Albia	50.5	0.0	85	25	25	16	8	1.31	-1.49	.94	15	1.0	1	15	4	2		
Centerville	50.8	-.4	85	25	25	16	8	1.60	-1.60	.72	14		T	14	5	2		
Chariton 3 E	49.8	-.2	87	25	22	19	12	1.04	-1.70	.56	14		T	14	2	2		
Creston	50.3	.4	86	25	24	16	10	1.36	-1.44	.60	15	4.0	T	15+	6	3		
Indianola	51.3	.6	89	25	27	2+	11	1.60	-1.09	.53	14	5.0	5	15	5	2		
Knoxville 2 W	52.2 M	1.1	89	25	24	16	7	1.47	-1.18	.71	14	1.0	T	14+	5	2		
Lamoni	50.9	.5	85	25	23	16	10	1.26	-1.73	.62	14	1.4	T	14	5	2		
Millerton	50.1	-.1	87	25	25	16	9	1.08	-2.01	.40	14	.5	T	14+	5	1		
Mount Ayr 2 N	50.9	.3	87	25	25	16	9	1.04	-1.92	.59	14	3.0			2	2		
Osceola	51.3	.7	87	25	26	16	8	1.03	-1.87	.55	14	1.5	1	14	5	1		
Tingley	50.5	0.0	87	25	24	16	10	1.03	-1.97	.42	14	2.5	2	14	3	3		
Winterset	51.8	1.2	88	25	26	16	10	1.46	-1.30	.65	14	2.0	2	15	5	3		
DIVISION	50.8	.3						1.26	-1.64									
SOUTHWEST DIVISION																		
Bloomfield 2 N	49.9	-.4	87	25	26	2+	9	1.55	-1.55	.99	14	.2	T	15	4	1		
Burlington WB Airport	50.0	-1.4	85	25	22	16	10	1.23	-1.95	.73	14	.3	T	15	8	2		
Columbus Junction	50.7	0.0	85	25	23	16	7	1.17	-1.88	.43	22	.4	1	15	5	3		
Fairfield	51.7 M	1.3	87	25	27	4	7	1.43	-1.67	.87	14		T	15	4	2		
Keokuk L & D 19	52.3	-.2	80	25	30	15+	2	1.27	-1.64	.37	22	1.0	1	15	9	3		
Keokuk WB City	50.6	-1.9	84	25	26	15+	5	1.64	-1.27	.74	14		T		6	2		
Keosauqua State Park	52.6 M	1.6	88	25	26	4	8	1.72	-1.30	.98	14	2.0	T	15	4	3		
Mount Pleasant	50.9	-.6	85	25	25	16	10	1.17	-2.01	.58	14	.5	T	15	3	3		
Oskaloosa	50.4	.1	86	25	25	16	8	1.44	-1.37	.92	15	2.0	1	15	5	2		
Ottumwa 1 WSW	51.4	-.2	87	25	26	16+	8	1.34	-1.59	.84	14	.5	T	15	3	2		
Ottumwa AP CAA	50.4	-1.2	86	25	27	16	6	1.48	-1.45	1.15	14	.9	T	15	4	1		
Sigourney	51.5	.8	86	25	23	9	6	1.19	-1.59				1	16	4	1		
Washington	50.8	.2	86	25	23	16	8	1.65	-1.41	.61	14	2.0			3	3		
DIVISION	51.0	.1						1.41	-1.60									
STATE	49.3	.4						1.33	-1.28									

HOURLY PRECIPITATION

IOWA
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Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-26th-																									
Ames 3 SW			.06	.10	.07	.02		.01																	.26
Atlantic AP CAA	//	.05	.12	.21																					.38
Beaver		.01	.02	.07	.39	.13																			.62
Belleve Lock & Dam 12			.04																						.04
Burlington WB Airport	//								.01	.01				.03	.06	.01									.12
Cascade			.06	.02																					.08
Centerville							.13	.33																	.46
Charles City		.07																							.07
Coon Rapids		.01	.02	.08	.23																				.34
Council Bluffs 6 NE		.01	.34	.02		.02																			.39
Dakota City		.01																							.01
Des Moines WB Airport			.02	.01	.05	.08		.01																	.17
Des Moines WB City		.01			.05	.04	.09																		.19
Dexter			.03	.03	.04	.10																			.20
Dubuque WB City		.05	.13																						.18
Greenfield													.04		.01	.10	.21	.01	.02	.01					.40
Hamburg						.03																			.03
Iowa Falls 1 N		.02	.03																						.05
Keokuk WB City										.04					.13										.17
Knoxville 2 W		.05	.05				.01	.04																	.15
Marshalltown No. 2				.02	.09	.07																			.18
Mason City AP CAA	6	.14																							.11
Missouri Valley		.09	.01	.01																					.05
Monona		.03	.01		.01																				.03
Morse			.02	.01																					.07
Morse 1 NE			.02	.05																					.02
Norwich 2 E SCS Exp Farm					.02																				.06
Rockwell City		.01	.05																						.12
Saint Charles		.03				.01	.06	.01	.01																.03
Sheffield		.01	.02																						.04
Shell Rock		.04																							.02
Soldier		.01	.01																						.02
Spencer 1 N	6	.22																							.15
Spillville		.15																							.07
Strawberry Point		.06	.01																						.04
Tabor 6 NW			.03	.01	.02	.02																			.05
Trasler				.01	.02	.02																			.20
Wallin 8 NE Red Oak		.02	.04	.03	.09	.06	.04																		.09
Webster City																									.10
Wheatland			.10																						.12
Woodbine 5 SE		.10	.02																						
-30th-																									
Dexter																								.03	.03
Hamburg															.13	.28	.02								.43
Iowa Falls 1 N																.05									.05
Lamoni																								.01	.01
Lenox																								.02	.02
Marion 4 NE																									
Missouri Valley																						.02			.02
Morse 4 SSW																									
Mount Ayr 2 N																						.02	.13		.15
Moville																						.01	.01		.02
Norwich 2 E SCS Exp Farm																.32					.02		.01		.35
Sioux City WB Airport																						.02	.01		.03
Soldier															.01										.01
Wallin 8 NE Red Oak																		.02	.01						.03



See reference notes following Station Index

DAILY TEMPERATURES

IOWA
APRIL, 1949

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Afton	MAX MIN	45 28	47 25	53 31	58 23	55 30	67 29	67 38	59 30	59 35	53 39	66 33	73 38	74 43	64 27	48 27	54 22	55 40	47 27	60 23	69 40	66 43	69 40	78 39	69 31	86 45	78 52	71 47	71 41	74 39	77 45	63.7 35.0	
Albia	MAX MIN	45 32	49 29	55 35	58 30	55 38	66 37	64 40	58 33	58 35	53 40	66 43	74 38	77 47	63 31	38 29	52 25	55 37	41 30	59 29	65 42	67 46	67 44	72 45	63 33	85 50	74 60	71 44	71 41	74 42	77 49	62.4 38.5	
Algona	MAX MIN	44 27	47 26	55 28	58 31	54 32	64 35	61 39	54 31	59 32	57 35	68 31	74 39	73 41	52 29	27	45 22	45 32	42 27	60 27	71 42	68 49	68 42	39 28	28 48	48 50	50 44	44 42	42 42	46	61.6 35.4		
Allison	MAX MIN	48 29	50 26	54 27	60 36	50 33	63 33	57 35	55 31	62 31	55 36	68 32	75 37	80 45	64 33	51 22	45 31	40 29	59 26	68 40	71 45	68 42	68 40	62 28	90 44	72 47	68 43	71 40	70 44	72 44	80 46	63.0 35.6	
Alta	MAX MIN	45 26	45 26	52 26	57 30	54 31	61 34	62 34	55 32	56 32	53 39	66 37	73 32	74 44	48 29	39 27	47 25	47 33	44 28	62 26	71 42	59 47	65 41	71 38	66 30	88 57	76 49	71 45	70 45	77 45	77 49	61.0 36.0	
Alton	MAX MIN	48 26	49 25	57 28	59 28	60 32	64 35	64 36	62 35	60 30	61 40	68 30	75 33	72 35	50 28	48 26	53 23	53 36	52 26	66 25	72 39	63 46	68 43	73 45	74 35	89 58	86 43	73 45	75 43	78 45	80 47	65.0 35.5	
Ames 3 SW	MAX MIN	48 30	49 30	54 31	58 27	55 35	65 30	63 38	55 32	60 33	53 40	66 32	73 34	75 42	63 30	38 29	48 24	50 34	41 29	59 25	68 36	66 48	62 41	74 40	63 29	90 46	78 53	67 48	69 40	74 40	78 45	62.1 35.7	
Anamosa 1 NW	MAX MIN	48 31	52 26	52 30	58 24	54 39	56 28	58 34	55 30	60 25	56 35	65 31	72 31	77 35	67 38	39 27	42 16	40 35	42 30	56 25	70 35	70 42	64 43	67 38	65 30	85 35	79 59	68 40	67 40	72 38	77 45	61.1 33.8	
Atlantic 1 E	MAX MIN	51 29	47 25	57 29	57 24	59 29	68 31	68 36	62 26	59 38	54 42	70 27	73 32	75 38	62 29	44 28	54 22	57 38	51 26	62 22	71 41	63 47	73 46	75 37	68 31	87 46	81 51	46 46	39 45	45 50	64.9 35.0		
Atlantic AP CAA	MAX MIN	47 29	46 28	52 29	57 24	53 30	66 30	67 29	58 27	58 42	52 34	65 27	71 29	74 36	48 30	42 27	55 24	55 32	50 29	60 24	70 41	59 42	70 36	67 32	67 46	87 51	78 43	64 38	68 45	76 47	80 47	62.1 34.1	
Audubon 2 S	MAX MIN	44 27	44 26	48 29	54 30	51 32	62 33	62 40	55 30	53 32	51 41	64 34	71 39	74 43	47 28	42 24	50 35	50 35	48 28	59 25	69 41	59 45	65 41	70 40	59 30	87 48	78 40	64 49	68 44	76 49	80 50	60.1 36.3	
Bancroft	MAX MIN	47 25	47 26	53 27	55 29	53 32	62 34	58 35	53 30	57 41	52 42	66 39	73 42	73 46	68 30	44 29	56 25	58 42	50 27	58 28	69 48	65 45	73 41	74 44	70 35	85 50	80 60	67 52	72 41	74 43	76 50	63.8 38.7	
Bedford 1 N	MAX MIN	45 29	47 30	50 35	58 30	56 31	68 35	69 40	61 33	57 41	52 42	66 39	73 42	73 46	68 30	44 29	56 25	58 42	50 27	58 28	69 48	65 45	73 41	74 44	70 35	85 50	80 60	67 52	72 41	74 43	76 50	62.8 35.5	
Belle Plaine	MAX MIN	50 32	52 28	56 29	61 29	54 36	65 31	64 33	57 30	60 31	56 38	68 32	74 35	78 42	65 33	46 27	53 21	42 35	59 30	63 25	65 35	68 43	67 43	59 38	89 31	78 45	71 58	70 44	70 39	74 41	77 51	60.6 35.6	
Bellevue L & D 12	MAX MIN	48 34	52 26	50 28	57 25	57 40	58 30	59 37	54 32	56 29	54 36	65 30	72 32	75 37	63 39	41 30	44 15	49 38	46 33	57 28	66 31	72 44	68 48	67 44	54 36	79 44	73 60	68 42	67 45	70 35	76 41	63.6 36.1	
Bloomfield 2 N	MAX MIN	43 31	49 26	54 31	61 27	57 39	67 35	64 37	58 31	60 34	52 39	66 43	74 36	79 42	70 37	39 29	58 35	42 30	59 26	52 30	72 38	67 40	72 38	71 40	67 33	87 46	75 42	70 43	72 39	74 38	76 49	62.3 38.4	
Boone	MAX MIN	46 30	48 29	56 32	59 31	53 35	64 35	63 42	55 34	59 33	51 41	69 34	76 41	77 50	65 40	40 29	50 28	47 29	40 29	62 29	70 44	61 54	63 44	71 42	65 32	89 58	81 53	64 49	69 45	77 41	79 50	59.1 32.1	
Britt	MAX MIN	37 23	44 24	51 25	48 24	49 30	55 33	53 31	49 27	51 29	57 31	64 30	75 36	68 39	62 24	43 20	43 30	57 25	57 35	71 32	69 32	70 35	61 32	63 35	71 24	65 45	89 46	76 40	69 40	74 44	76 48	62.6 37.4	
Burlington WB AP	MAX MIN	42 32	50 32	54 34	61 30	60 34	65 31	66 35	57 31	60 33	53 39	67 43	75 44	79 42	55 32	34 28	50 22	58 36	44 30	60 27	66 38	73 43	71 46	72 44	62 34	85 47	69 50	72 49	69 42	74 43	76 51	62.6 37.4	
Carroll	MAX MIN	49 29	50 26	55 30	57 29	55 32	66 34	65 45	60 32	61 32	54 41	67 30	75 40	76 45	65 29	41 29	82 25	80 38	46 30	64 26	72 41	63 47	66 43	73 39	68 30	89 50	79 51	71 47	71 41	77 44	79 44	63.9 36.6	
Cascade	MAX MIN	49 32	53 25	53 25	58 24	55 39	60 27	60 35	56 31	61 26	55 35	68 28	73 30	79 35	60 38	43 28	49 18	47 36	56 32	65 27	71 34	68 44	67 45	58 29	80 41	75 62	70 40	69 36	72 35	74 42	80 48	61.7 34.1	
Castana 4 E	MAX MIN	47 27	47 29	58 30	55 30	54 33	64 35	64 44	57 34	54 40	51 41	66 34	71 41	72 44	49 30	43 29	54 24	50 42	49 27	62 35	70 47	60 45	65 45	74 29	88 38	81 49	80 47	69 44	72 48	76 48	78 48	62.0 37.0	
Cedar Rapids No. 1	MAX MIN	51 32	54 27	55 28	61 25	54 39	62 30	62 34	57 31	61 27	57 37	68 35	75 33	79 39	66 39	45 17	50 36	43 31	58 26	67 35	72 46	68 45	70 42	59 31	87 46	78 45	70 42	70 43	70 41	76 39	75 47	63.5 35.6	
Centerville	MAX MIN	42 32	48 28	53 35	58 28	56 35	67 35	64 37	61 30	59 36	55 40	65 43	72 36	76 43	72 38	39 28	53 25	56 41	45 30	59 26	67 44	66 44	69 35	73 35	76 32	85 49	81 57	70 43	70 37	73 35	75 46	64.0 35.5	
Charlton 3 E	MAX MIN	45 33	47 25	54 34	60 25	58 33	68 30	66 32	59 25	57 32	54 42	65 42	74 32	75 48	70 33	50 23	52 42	55 31	60 22	68 37	69 46	69 44	73 35	71 32	87 49	80 57	70 37	70 35	73 34	75 46	60.7 35.1		
Charles City	MAX MIN	47 29	50 27	54 27	58 30	50 33	61 33	56 33	54 33	60 31	60 35	67 31	74 38	75 42	48 28	38 26	44 22	45 30	52 29	57 27	66 41	69 45	69 43	66 35	60 30	89 46	73 50	68 45	69 43	74 42	78 48	62.0 35.0	
Cherokee	MAX MIN	46 28	48 24	54 26	57 27	55 31	62 35	62 38	57 29	56 36	55 39	67 30	74 34	73 39	43 31	42 27	50 23	46 33	48 28	63 27	71 43	61 48	66 41	73 36	68 27	89 49	75 45	71 40	72 45	78 45	79 47	62.0 35.0	
Clarinda	MAX MIN	46 31	48 30	51 36	60 26	55 31	68 34	70 41	61 29	59 44	53 44	66 36	74 38	74 42	58 32	44 32	58 26	58 42	51 29	61 29	72 45	65 46	78 43	77 38	68 38	88 48	78 55	70 42	72 45	75 51	72 51	64.3 38.1	
Clarion	MAX MIN	44 28	49 28	53 27	57 28	46 30	63 31	60 35	54 28	60 32	56 37	67 26	75 35	76 38	59 32	35 26	45 20	44 32	40 27	59 24	70 38	64 48	65 43	68 38	63 25	90 45	79 51	69 44	70 41	75 43	77 48	61.1 34.3	
Clinton No. 1	MAX MIN	52 34	54 28	54 35	60 29	60 38	61 31	65 36	59 33	62 31	57 33	68 37	75 37	78 40	60 39	44 29	46 22	53 38	47 32	59 28	68 38	76 43	69 47	71 38	58 43	82 60	74 43	80 40	74 39	77 47	80 47	63.8 36.8	
Columbus Junction	MAX MIN	47 34	51 29	54 33	60 27	58 37	64 30	66 37	57 33	61 30	59 38	66 43	74 36	79 37	60 44	44 28	47 23	56 39	44 33	58 28	67 40	74 45	67 42	70 36	61 35	85 44	82 57	73 42	69 43	75 46	77 49	63.7 37.6	
Corning 2 E	MAX MIN	40 34																															
Council Bluffs 5 NE	MAX MIN	48 30	47 32	51 34	55 26	56 30	68 33	69 40	62 31	58 43	57 43	66 30	72 32	75 39	71 32	44 31	59 27	60 44	52 31	64 29	7												

DAILY TEMPERATURES

IOWA
APRIL 1949

Table 5-Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Decorah 2 S	MAX MIN	45 28	48 14	52 20	58 21	50 32	56 23	58 28	51 26	58 22	58 26	68 23	72 31	72 32	60 26	48 9	46 32	45 29	56 22	66 35	71 46	68 39	64 38	55 25	75 40	73 53	65 38	67 31	72 36	78 35	59.7 29.6	
Delaware 2 W	MAX MIN	48 30	51 25	52 27	51 31	59 27	51 25	58 31	55 27	59 30	53 32	65 30	74 37	78 42	60 30	36 18	41 15	46 31	44 29	57 25	62 35	71 45	69 42	67 39	53 28	82 42	73 55	67 42	68 38	73 42	78 45	60.0 33.2
Denison 2 S	MAX MIN	46 27	47 26	55 26	55 26	54 31	64 33	65 36	59 26	56 36	52 40	68 28	73 35	74 39	48 28	42 28	52 23	51 35	50 28	63 25	72 42	58 47	65 42	74 38	69 29	89 52	75 50	71 44	73 41	79 46	79 51	62.6 35.3
Des Moines WB Airport	MAX MIN	46 33	47 28	55 33	58 30	54 36	66 35	66 39	59 32	57 38	53 42	67 37	75 41	75 46	60 31	40 26	51 33	52 30	43 28	60 43	69 46	66 42	67 44	73 44	64 34	88 50	72 55	71 49	71 47	75 47	77 51	62.6 38.5
Des Moines WB City	MAX MIN	46 33	49 30	54 34	59 30	55 38	67 35	66 40	57 35	59 37	55 42	67 36	74 38	76 44	59 30	41 29	51 28	52 34	43 31	59 29	68 44	66 47	67 44	74 43	65 35	88 51	73 55	71 50	72 45	78 44	78 50	62.9 38.7
Dubuque L & D 11	MAX MIN	44 31	47 23	48 30	54 29	50 38	54 32	53 37	51 34	52 34	50 34	63 34	69 37	72 41	65 36	38 29	40 35	46 35	43 31	54 30	63 46	68 49	68 43	63 51	76 35	81 35	72 56	65 45	64 42	68 45	73 48	57.5 36.6
Dubuque WB City	MAX MIN	48 33	52 30	52 31	59 31	56 38	59 34	58 39	55 35	59 35	55 36	68 36	73 39	76 43	50 32	36 28	43 34	48 32	47 32	58 39	67 50	72 47	70 41	68 43	68 35	81 51	81 55	82 50	68 45	73 44	79 49	60.8 37.9
Elkader	MAX MIN	58 30	53 20	57 21	60 20	53 33	58 24	58 33	56 27	60 24	55 36	70 36	73 22	80 27	68 34	36 27	44 34	48 27	43 31	58 27	68 32	70 42	69 42	68 40	58 28	81 44	81 44	82 41	68 35	72 38	78 38	62.8 31.3
Emmetsburg	MAX MIN	43 27	42 27	53 29	58 31	52 32	61 34	59 37	53 31	58 31	59 35	68 34	76 38	69 40	51 30	45 28	44 23	44 34	42 27	62 23	72 38	64 49	69 42	69 38	65 27	90 46	80 48	70 44	71 39	77 40	79 42	61.4 34.8
Estherville	MAX MIN	41 25	47 21	54 25	57 28	54 31	60 35	60 37	53 30	58 28	60 34	67 30	75 42	85 41	43 30	41 28	47 24	44 32	43 27	62 25	73 42	61 47	68 40	68 40	64 27	88 47	78 45	70 40	73 39	78 44	80 44	61.1 34.3
Fairfield	MAX MIN	45 33	50 30	54 44	60 27	59 40	67 34	67 37	58 32	60 34	54 38	64 42	74 38	78 42	66 40	40 29	55 38	42 31	60 29	66 40	72 51	67 45	73 43	73 38	87 47	75 48	73 45	71 45	77 42	78 50	64.3 39.0	
Fayette	MAX MIN	50 30	52 20	55 20	60 22	51 34	58 26	58 29	58 29	60 22	56 32	68 22	74 27	79 32	70 33	36 26	43 4	45 34	43 30	57 21	66 38	71 44	69 42	67 40	58 29	84 41	79 54	70 40	68 34	73 37	79 40	61.9 31.1
Fort Dodge	MAX MIN	46 28	48 25	53 28	57 27	55 31	64 31	62 38	54 32	58 28	53 40	68 26	75 40	76 40	55 30	38 21	47 34	47 28	42 28	62 43	71 49	65 44	66 39	72 48	63 28	80 49	81 52	70 46	73 38	78 42	79 42	62.1 35.0
Glenwood 2 E	MAX MIN	48 28	48 31	52 34	56 27	55 30	67 37	68 39	60 30	58 44	54 43	66 30	72 33	75 42	65 30	43 28	60 25	58 44	52 27	63 31	71 47	65 48	71 41	77 36	75 48	88 55	80 49	74 39	73 39	78 47	79 50	65.0 37.9
Greenfield	MAX MIN	45 29	45 28	52 31	58 31	54 33	66 33	65 40	55 33	57 38	52 43	65 35	73 41	75 45	63 30	29 25	53 40	54 29	44 25	60 42	69 46	65 42	68 33	69 36	87 49	75 53	67 51	70 43	74 43	76 47	62.3 37.4	
Grinnell	MAX MIN	50 30	52 28	55 30	59 31	55 34	65 33	65 32	56 28	60 34	55 38	66 34	74 42	77 45	67 31	38 26	48 21	53 34	42 28	57 27	64 38	69 44	65 41	72 38	61 28	88 46	79 57	71 45	71 40	75 43	78 50	62.9 35.9
Grundy Center 4 NE	MAX MIN	51 30	55 26	59 25	62 25	56 33	66 30	61 33	58 30	62 30	55 37	69 27	75 36	77 45	69 31	38 26	48 21	48 32	42 28	58 26	68 44	73 42	68 44	70 44	90 26	78 45	70 53	69 42	68 39	78 41	78 38	63.4 34.0
Guthrie Center	MAX MIN	46 29	48 28	52 30	51 31	54 34	64 33	66 40	57 32	57 35	52 42	66 33	73 41	78 47	65 30	38 29	51 25	51 38	44 29	62 28	69 44	65 50	67 44	72 42	65 32	88 49	76 52	68 49	70 42	75 44	78 49	62.2 37.7
Guttenburg L & D 10	MAX MIN	49 31	52 25	56 27	60 27	53 38	59 29	58 35	55 31	60 30	57 34	68 30	73 35	74 40	67 36	43 28	45 19	45 20	48 33	58 26	67 37	70 46	70 45	67 45	56 35	82 45	81 56	68 45	67 43	71 44	78 46	61.6 35.4
Hampton	MAX MIN	46 27	50 26	55 29	58 29	53 32	65 34	64 32	56 32	61 28	57 36	68 30	75 45	77 42	68 30	38 26	46 23	46 34	41 28	59 67	68 41	70 48	65 44	68 39	89 46	84 46	69 45	73 45	76 39	77 42	62.8 35.1	
Harlan	MAX MIN	46 29	46 30	52 32	55 25	56 31	65 33	67 37	60 29	55 43	53 43	67 28	72 33	75 38	71 31	41 24	54 53	50 29	63 23	73 44	68 49	67 42	76 39	70 34	88 48	83 53	70 52	70 45	76 45	81 51	63.8 37.1	
Hawarden	MAX MIN	46 25	50 23	55 25	60 27	55 29	63 37	62 37	60 29	57 37	62 40	67 28	78 37	69 42	47 31	48 32	58 25	52 40	68 27	73 45	63 49	68 42	74 39	70 29	90 55	76 44	76 39	75 43	80 43	81 47	64.4 35.9	
Ida Grove 4 S	MAX MIN	48 25	50 36	54 26	56 29	58 31	67 34	67 29	60 33	58 34	52 41	69 41	75 45	74 30	44 27	51 24	51 39	53 28	65 21	73 41	59 47	63 42	74 40	90 30	76 52	71 45	75 43	79 45	80 48	63.6 35.4		
Independence 2 W	MAX MIN	49 31	51 28	54 28	59 27	58 36	59 29	59 34	55 31	61 31	57 36	67 31	73 34	77 39	74 37	39 26	46 18	46 33	43 29	57 28	65 34	73 39	68 42	67 41	86 30	84 40	69 54	68 44	75 39	79 46	62.6 34.4	
Indianola	MAX MIN	45 32	48 27	54 31	60 29	57 35	69 39	68 40	58 30	62 34	54 41	66 34	76 42	78 49	66 32	41 29	52 27	55 40	46 30	61 27	70 42	67 49	67 43	74 43	67 32	89 49	83 55	70 46	72 46	76 41	80 50	64.4 38.1
Inwood 2 W	MAX MIN	39 18	42 19	50 23	54 28	53 26	62 34	60 35	55 29	56 32	60 29	67 29	76 28	64 40	42 31	49 27	55 26	50 36	50 26	68 27	72 44	62 46	68 39	72 32	80 26	76 47	73 39	74 42	78 42	79 47	62.1 33.1	
Iowa City	MAX MIN	50 33	52 29	54 31	59 27	55 39	64 31	64 36	57 32	60 30	55 38	66 43	74 35	78 40	62 41	44 28	52 37	43 32	57 28	64 34	72 41	65 45	71 33	59 43	87 62	78 43	71 43	69 43	75 42	77 51	62.5 37.1	
Iowa City AP CAA	MAX MIN	53 30	54 27	57 29	60 24	56 33	63 29	64 34	58 28	62 27	56 37	68 39	74 32	78 37	53 31	45 17	53 33	43 29	57 26	66 31	72 40	65 44	72 40	61 32	86 43	86 46	72 43	73 42	77 35	77 44	62.7 33.7	
Iowa Falls 1 N	MAX MIN	46 39	49 28	53 28	58 26	54 32	64 32	60 33	57 29	59 30	52 37	66 28	74 32	77 38	66 32	59 27	47 20	44 28	41 28	58 25	67 40	69 47	67 42	70 38	90 45	77 52	67 41	69 39	74 40	77 46	61.5 34.3	
Jefferson	MAX MIN	48 28	49 26	53 29	58 27	55 31	65 31	65 37	56 30	58 33	53 41	66 30	74 35	74 44	66 30	39 29	49 23	52 35	44 25	61 48	70 49	65 41	67 38	73 30	88 50	80 52	69 48	70 41	75 43	76 46	62.7 36.0	
Keokuk L & D 19	MAX MIN	43 34	50 36	52 36	58 36	58 40	62 44	63 40	58 40	58 38	55 40	63 43	66 47	73 48	67 43	48 30	52 30	45 42	57 35	65 42	69 45	71 49	73 48	68 41	80 48	73 59	70 51	66 47	73 46	73 55	62.3 42.2	
Keokuk WB City	MAX MIN	41 35	46 38	48 38	60 38	58 38	65 37	62 42	57 37	57 36	51 37	64 42	71 46	76 45	53 29	33 26	52 26	59 36	42 32	60 32	66 41	71 44	71 48	73 46	60 41	84 47	70 54	70 49	66 43	74 44	73 54	61.1 40.0
Keosauqua State Park	MAX MIN	40 34			63 26	59 39	68 37	65 40	60 34	63 32	55 40	69 45																				

DAILY TEMPERATURES

IOWA
APRIL 1949

Table 5-Continued

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Logan	MAX	47	47	54	57	56	67	70	59	57	55	66	73	75	65	44	58	56	50	63	73	66	70	77	73	89	79	72	72	77	78	
	MIN	27	27	30	27	31	33	41	28	42	41	29	33	41	31	29	26	40	28	29	45	47	42	38	33	50	51	47	42	45	48	
Mapleton 5 NW	MAX	46	49	54	57	56	64	65	58	55	53	70	74	72	47	44	54	51	51	65	72	59	67	74	69	89	74	72	72	78	79	
	MIN	28	27	31	26	30	36	37	28	38	42	28	32	41	30	29	25	35	29	28	45	45	44	38	30	56	49	47	42	48	49	
Maquoketa 5 E	MAX	49	52	52	57	57	60	59	57	63	55	67	73	77	68	40	42	51	45	57	65	71	65	67	55	79	74	69	68	72	77	
	MIN	32	27	29	29	38	29	36	31	30	34	36	38	41	37	28	18	36	33	30	35	43	46	43	31	39	61	46	41	37	46	
Marshalltown No. 1	MAX	51	54	57	61	55	66	63	57	60	55	68	75	77	60	38	48	50	42	58	65	71	65	73	62	90	78	69	70	75	79	
	MIN	32	27	28	26	37	34	31	30	27	39	28	29	37	30	27	21	35	29	24	35	47	45	41	30	47	55	43	37	37	42	
Mason City 3 N	MAX	45	49	53	55	53	61	57	50	58	59	67	74	72	53	40	44	43	44	58	67	65	67	65	59	89	76	68	68	74	77	
	MIN	24	24	25	27	31	33	32	28	26	30	27	36	38	28	26	19	30	28	22	40	46	41	38	26	43	51	42	38	39	43	
Mason City AP CAA	MAX	45	48	53	55	52	61	57	54	58	58	66	73	72	43	37	45	43	40	56	67	68	68	66	80	89	71	68	69	74	77	
	MIN	24	23	27	29	32	34	30	30	28	31	29	38	39	27	25	19	29	28	25	38	44	40	31	25	41	46	41	39	39	42	
Mifflord 4 NW	MAX	39	46	51	57	50	58	57	54	56	59	66	75	65	43	40	46	43	40	63	73	58	68	67	65	89	78	71	71	77	80	
	MIN	23	22	28	26	31	34	34	28	33	36	32	36	38	29	27	13	33	26	21	38	48	38	35	28	40	42	43	38	44	46	
Millerton	MAX	43	49	54	58	56	68	65	61	59	53	66	74	75	68	41	52	58	44	59	68	69	69	72	64	87	79	68	71	73	76	
	MIN	31	28	33	28	34	34	37	31	37	41	41	43	43	31	28	25	38	30	28	38	44	43	40	33	48	46	46	39	46	49	
Missouri Valley	MAX	51	48	57	59	60	68	71	63	70	57	70	75	76	66	48	61	58	55	65	73	64	73	80	72	89	78	76	76	80	79	
	MIN	29	31	33	30	31	40	43	32	43	43	31	46	49	32	31	30	41	29	32	48	50	47	41	35	55	52	50	48	48	50	
Monmouth 4 SW	MAX	50	52	53	59	52	60	59	56	60	57	65	74	79	68	38	44	50	46	58	65	72	66	68	58	81	81	69	69	74	74	
	MIN	30	28	28	25	36	28	33	30	27	32	36	32	37	36	25	18	36	29	26	32	41	43	40	30	49	60	38	42	36	36	
Mount Ayr 2 N	MAX	42	47	52	59	55	70	69	59	57	53	64	74	75	60	42	55	58	46	60	69	64	72	74	65	87	79	68	71	73	77	
	MIN	32	27	28	29	33	33	39	28	40	43	40	50	41	35	32	25	44	31	28	34	48	43	39	37	48	58	53	44	42	51	
Mount Pleasant	MAX	45	52	56	62	58	66	66	59	62	53	69	76	79	67	45	50	56	42	59	67	72	67	72	69	85	75	72	72	77	76	
	MIN	32	30	32	29	36	32	37	32	34	38	41	38	40	44	29	28	38	32	28	35	42	45	43	36	45	62	41	40	41	51	
Muscataine No. 1	MAX	49	53	55	60	59	63	65	58	61	56	67	74	78	65	43	47	54	45	59	67	79	69	72	61	84	75	74	71	78	78	
	MIN	33	28	31	30	42	32	39	34	31	36	41	37	40	41	29	24	39	33	29	38	46	47	44	34	46	65	43	40	44	51	
New Hampton	MAX	48	51	55	57	47	59	56	54	59	59	67	73	76	60	33	40	43	40	55	65	70	69	65	57	84	73	68	67	72	78	
	MIN	25	23	22	26	29	23	28	26	26	28	24	32	35	26	22	12	27	24	22	32	40	38	33	24	39	49	41	34	35	41	
Newton	MAX	50	51	56	60	54	66	66	57	60	55	66	76	78	68	40	49	52	43	58	66	69	66	72	62	89	72	72	71	74	79	
	MIN	32	30	32	31	38	35	37	32	32	39	34	38	48	32	28	24	36	29	29	40	47	42	39	31	48	48	46	45	46	52	
Northwood	MAX	44	50	51	54	51	61	53	54	58	60	64	72	70	60	41	43	41	43	56	68	64	68	64	60	85	83	69	70	74	79	
	MIN	23	25	27	31	32	33	34	29	29	33	32	38	40	28	26	22	32	27	25	36	43	41	39	27	43	48	40	39	38	43	
Norwich 2 E SCS Farm	MAX	46	48	51	57	56	68	70	69	58	53	65	73	73	67	43	59	71	64	52	62	64	72	76	75	87	77	70	72	76	79	
	MIN	29	31	36	30	33	35	41	33	43	43	35	37	38	30	30	26	45	36	28	39	45	41	43	37	48	56	52	41	46	52	
Oakland 2 E	MAX	48	47	54	55	55	68	68	60	58	52	67	72	75	71	42	56	56	51	62	71	68	70	75	72	72	70	72	78	79		
	MIN	28	30	33	25	27	32	36	28	42	43	29	31	40	31	24	41	28	28	46	48	41	34	33	48	53	50	40	45	51		
Oelwein	MAX	49	48	59	59	50	57	55	56	61	54	68	74	76	66	36	42	45	42	55	65	72	68	65	65	85	78	69	69	74	79	
	MIN	31	26	26	27	31	27	32	35	31	37	30	34	40	31	26	13	32	29	27	40	46	40	36	30	44	54	45	42	43	50	
Onawa	MAX	50	51	56	58	57	67	68	62	58	55	67	75	77	59	46	59	55	53	66	74	60	69	77	72	91	81	76	75	79	82	
	MIN	28	28	28	27	29	35	38	26	42	41	27	38	45	30	27	39	27	29	44	47	44	36	33	54	49	43	40	47	50		
Osage	MAX	44	48	52	56	55	61	59	54	58	59	66	72	71	68	42	42	45	43	54	65	62	68	65	58	86	83	65	67	73	77	
	MIN	26	26	28	29	32	29	33	30	30	32	29	34	37	31	25	19	32	28	25	36	44	40	39	28	43	51	42	38	40	44	
Osceola	MAX	44	46	53	59	55	70	67	60	58	54	66	75	76	70	39	52	56	48	59	70	66	67	74	72	87	78	69	74	76	77	
	MIN	31	28	34	30	35	35	41	34	36	41	39	43	47	30	29	26	42	30	27	43	46	43	42	34	50	55	51	42	44	50	
Oskaloosa	MAX	48	50	56	61	55	68	68	58	59	54	66	75	78	65	37	50	54	43	58	65	69	65	74	62	86	78	73	71	74	73	
	MIN	33	30	33	29	37	35	37	31	34	31	34	40	43	35	43	35	33	29	25	35	31	26	39	44	44	41	32	48	41	50	
Ottumwa 1 WSW	MAX	45	50	55	61	58	67	67	64	62	58	68	75	80	75	42	54	56	50	59	66	71	68	73	72	87	84	72	73	76	79	
	MIN	34	29	36	27	37	33	34	30	30	41	41	35	40	42	30	26	40	32	26	37	43	44	40	35	45	62	42	38	38	45	
Ottumwa AP CAA	MAX	44	47	54	58	56	65	66	58	58	54	65	73	76	60	37	51	55	41	57	64	70	66	73	61	86	73	71	69	74	75	
	MIN	33	31	33	34	39	38	40	34	36	40	43	43	49	30	29	27	35	31	30	39	44	45	44	34	49	54	46	41	43	52	
Perry 2 SE	MAX	48	51	55	59	54	65	65	58	58	54	67	75	75	68	37	50	50	43	61	69	66	65	73	64	90	77	69	71	75	78	
	MIN	30	28	30	28	33	30	37	29	32	41	29	33	40	29	28	23	3														

DAILY TEMPERATURES

IOWA
APRIL 1949

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Sioux Rapids	MAX	45	48	54	57	54	60	60	54	57	56	67	75	75	47	39	63	47	57	67	63	57	67	71	68	90	80	72	73	80	84	62.9	
	MIN	25	23	27	25	31	30	32	30	33	33	26	33	37	30	28	28	42	24	24	42	42	42	39	26	48	47	45	37	42	44	33.8	
Spencer 1 N	MAX	32	45	53	56	56	58	58	53	60	59	67	75	68	40	39	47	43	43	64	73	56	67	69	66	90	74	70	72	78	79	60.3	
	MIN	31	24	27	25	31	32	32	28	31	36	28	36	37	29	26	22	31	25	21	41	45	40	34	24	45	45	41	35	45	45	33.1	
State Center	MAX	48	52	53	56	55	62	58	58	65	53	66	70	75	63	37	54	48	42	58	68	64	69	63	89	80	68	72	74	77	62.2		
	MIN	31	32	31	32	37	35	40	34	33	38	35	44	48	33	28	24	34	29			63	44	43	30	49	54	49	45	48	52	38.2	
Storm Lake 2 E	MAX	43	46	52	54	53	62	61	59	56	53	65	72	73	53	37	46	45	46	62	62	63	65	72	66	86	80	70	70	77	79	61.2	
	MIN	24	24	28	31	30	32	40	29	32	38	32	38	39	28	26	25	35	26	25	41	47	43	40	25	47	49	41	40	42	42	34.6	
Tingley	MAX	44	48	54	60	57	70	67	65	58	54	65	74	75	68	46	54	57	49	60	65	70	70	74	72	87	78	67	71	75	76	64.3	
	MIN	30	28	34	29	31	33	38	30	37	40	40	38	45	30	29	24	41	27	26	40	42	40	37	33	47	55	40	41	43	50	36.6	
Tipton	MAX	49	53	54	59	57	63	65	57	60	55	67	74	79	70	40	51	52	44	56	67	72	66	73	59	84	76	68	68	74	78	62.9	
	MIN	35	27	32	28	37	32	35	30	28	34	36	34	42	40	28	18	36	30	26	38	42	46	48	30	42	62	44	38	38	47	36.1	
Toledo	MAX	50	52	56	61	55	65	63	57	60	54	67	75	80	75	37	48	50	41	58	65	71	65	72	61	89	80	68	70	74	79	63.3	
	MIN	31	28	29	30	37	32	34	32	30	38	31	33	40	33	27	22	35	29	26	39	46	44	41	29	47	55	44	39	40	48	35.6	
Tripoli	MAX	48	52	56	61	60	61	59	56	61	56	68	73	77	73	37	44	46	42	57	66	71	69	68	60	87	82	69	69	74	79	62.7	
	MIN	30	27	27	30	29	31	33	30	31	36	30	34	38	35	26	18	34	29	26	38	45	40	40	30	45	53	46	40	42	48	34.7	
Vinton	MAX	50	52	56	60	61	64	62	57	62	59	68	75	78	70	40	46	49	43	57	65	72	68	67	62	89	82	68	70	76	78	63.5	
	MIN	34	28	27	25	34	29	32	30	25	37	27	30	37	39	29	19	37	30	26	37	44	42	44	28	45	57	41	37	35	40	34.2	
Washington	MAX	48	50	55	60	58	65	66	58	61	56	67	75	79	71	41	50	56	43	58	64	71	71	72	62	86	76	73	72	77	79	64.0	
	MIN	33	28	31	29	38	33	35	31	33	38	43	40	43	41	28	23	37	30	28	36	44	45	42	34	45	63	47	40	40	50	37.6	
Waterloo	MAX	49	52	56	61	54	64	59	59	59	52	68	75	76	70	38	44	47	42	59	64	71	70	69	60	90	79	69	69	74	78	62.6	
	MIN	31	24	30	25	34	29	31	29	29	38	27	32	39	30	26	19	35	29	24	39	45	42	41	29	46	55	43	40	42	46	34.3	
Waukeo	MAX	46	48	54	60	55	65	66	60	59	53	58	74	76	70	40	50	52	45	59	68	66	66	74	68	88	76	71	72	76	78	63.1	
	MIN	33	30	35	30	33	37	40	35	37	32	35	38	44	32	29	28	39	31	29	44	50	44	43	35	51	55	50	45	44	50	38.6	
Waukon	MAX	44	47	50	56	50	57	55	50	56	57	66	72	74	64	36	40	45	42	54	65	69	67	64	53	73	72	65	65	70	77	58.5	
	MIN	23	25	25	29	31	28	31	28	29	24	33	35	41	29	27	17	28	25	26	37	42	38	38	26	38	49	42	35	36	41	31.9	
Webster City	MAX	48	50	55	59	55	65	62	57	60	53	68	75	77	68	38	47	48	50	60	71	67	64	72	64	91	82	72	70	77	79	63.5	
	MIN	29	26	28	26	30	30	34	28	32	39	25	30	36	29	27	20	34	28	24	37	47	43	38	26	47	52	45	39	39	47	33.8	
Williamsburg	MAX	47	51	54	60	54	64	63	55	60	55	65	74	78	72	36	45	52	41	57	62	70	65	71	60	88	76	70	69	74	77	62.2	
	MIN	30	31	28	38	33	35	32	33	38	41	35	42	35	28	23	36	30	27	35	43	43	44	32	45	60	45	40	40	49	36.9		
Winterset	MAX	45	46	52	60	58	68	68	65	57	56	66	76	77	74	40	52	55	48	62	70	70	74	74	88	85	70	72	76	77	65.0		
	MIN	30	28	32	30	35	36	40	32	37	42	33	43	48	31	28	26	42	30	28	44	45	42	43	34	50	54	48	45	46	52	38.5	
Woodward 7 N	MAX	48	50	54	59	55	65	64	56	65	54	67	75	75	68	38	49	50	42	60	69	66	64	73	63	90	73	70	71	75	78	62.9	
	MIN	30	29	31	30	33	31	37	32	34	41	34	36	45	31	28	25	35	29	37	43	49	41	38	31	49	55	48	45	45	49	37.4	

SOIL TEMPERATURES AT AMES, IOWA

APRIL 1949

Temperature	4 feet above ground	Soil Depth						
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches	72 inches
Average 7 a.m.	42.1	41.2	41.5	44.0	45.7	43.1		
Average 12 noon	58.1	57.3	55.8	49.0	45.5	43.5		
Average 7 p.m.	50.8	53.3	53.2	54.4	48.2	43.4	40.5	41.4
Highest	90	72	71	68	59	52	45	44
Date	25	25	25	29	30	30	29	27+
Lowest	24	31	32	34	34	35	36	39
Date	16	16	16	1	1	1	1+	1+
Number of days with temperature								
0° or lower	0	0	0	0	0	0	0	0
24° or lower	1	0	0	0	0	0	0	0
32° or lower	13	5	1	0	0	0	0	0
40° or higher	30	29	29	29	29	25	20	26
50° or higher	25	22	22	23	11	4	0	0
60° or higher	18	13	9	10	0	0	0	0
90° or higher	1	0	0	0	0	0	0	0

The following reference notes apply only to the soil temperature table:
 The range of diurnal changes at depths greater than 24 inches is about 1°.
 Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

STATION INDEX

IOWA
APRIL 1943

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Dalton	9 41 02	94 12	1200	SP	6P	Dave Henderson	2 3 5	Maquoketa 5 mi. E	5131	Jackson	12 42 02	90 35	5P	5P	Otto J. Bisinger	2 3 5			
Akron	0066	Plymouth	1 42 49	96 33	1153	6P	6P	Orcan C. Moore	3	Harrison 4 mi. NE	5163	Linn	4 42 03	91 33	5P	5P	Hybrid Seed Corn Co.	2 3 5			
Albia	0112	Monroe	6 41 02	92 48	949	EP	7A	Arthur L. Freed	2 3 5	Marshalltown No. 1	5193	Marshall	10 42 03	92 54	886	EP	7A	George C. Johnson	2 3 5		
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Harry B. Wolfe	2 3 5	Marshalltown No. 2	5198	Marshall	10 42 04	92 54					Raymond H. Hoops	3 4	
Allerton	0149	Wayne	9 40 42	93 23				Herman E. Raddy	3 4	Maona City 3 mi. E	5230	Cerro Gordo	4 43 11	93 12	1148	EP	6P	As, Cry. Sugar Co.	2 3 5		
Allison	0157	Butler	4 42 45	92 47	1060	EP	7P	D. Tellinghuisen	2 3 5	Maona City AP CAA	5235	Cerro Gordo	4 43 09	93 20	1194	MID	MID	Airways Com. Sta.	2 3 4 5		
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Merrill 5 mi. W	5418	Plymouth	7 42 43	96 20					Art. Husted	3	
Altos	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. S. Blagle	2 3 5	Miford 4 mi. NE	5403	Dickinson	18 43 23	95 11	1402	7P	7P	A. C. McKinstrey	2 3 5		
Ames 3 mi. SW	0205	Story	21 42 00	93 39	1004	7P	7P	Charles M. Brown	2 3 4 5 6	Millerton	5517	Wayne	5 40 50	93 18	1070	6P	6P	J. C. Davis	2 3 5		
Anamosa 1 mi. NW	0213	Jones	27 42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Missouri Valley	5584	Harrison	3 41 33	95 54	1068	7P	7P	S. William Sorenson	2 3 4 5		
Atlantic 1 mi. E	0264	Case	16 41 34	94 59	1110	EP	7A	Roy L. Fancolly	2 3 5	Monmouth 4 mi. SW	5622	Jones	13 42 03	90 55	870	7P	7P	Arnold Bisenger	2 3 5		
Atlantic AP CAA	0369	Case	16 41 34	95 02	1152	MID	MID	Airways Com. Sta.	2 3 5	Monroe	5620	Clayton	14 43 03	91 22					Mrs. Anna W. Walter	2 3 5	
Audubon 3 mi. S	0385	Audubon	16 41 42	94 57	1297	6P	6P	Ralph E. Kirby	3	Monroe	5628	Jasper	6 41 31	93 05	923	EP	6P	J. A. Dibel	2 3 5		
Audubon 3 mi. S	0389	Des Moines	21 40 48	91 17	522	6P	6P	Glen Wood	3	Monroe	5732	Johnson	10 41 44	91 26					Margaret R. Miller	3 4	
Auriga	0463	Kossuth	8 43 18	94 13	1200	7P	7P	Wilbur Fox	2 3 5	Monroe 1 mi. NE	5737	Johnson	10 41 48	91 25					Lawrence J. Wall	3 4	
Bancroft	0463	Kossuth	8 43 18	94 13	1200	7P	7P	Wilbur Fox	2 3 5	Morae 4 mi. SSW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4	
Bartlett 3 mi. E	0493	Fremont	28 40 53	98 44				R. L. Kilpatrick	3	Mount Apr 2 mi. W	5769	Siagoold	9 40 44	94 14	1214	6P	6P	H. L. Cornelson	2 3 4 5		
Beaver	0549	Boone	6 42 02	94 08				Karmit E. Bullard	3 4	Mount Pleasant	5798	Henry	21 42 29	91 32	730	6P	6P	A. W. Patterson	2 3 4 5		
Bedford 1 mi. N	0578	Taylor	10 41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Moville	5823	Woodbury	11 42 29	96 04					Elmer W. Widmark	3 4	
Belle Plaine	0600	Beaton	10 41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Muscataine No. 1	5837	Muscataine	14 41 26	91 03	680	7P	7P	F. J. Neuberbach	2 3 4 5		
Bellavus Lock & Dam 12	0608	Jackson	14 42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Muscataine No. 2	5842	Muscataine	14 41 25	91 03	546	7A			Clifford McKew	3	
Blackton 2 mi. S	0745	Taylor	19 40 38	94 29	1081	5P	5P	Glenn A. Cobb	3	Muscataine 8 mi. NW	5852	Muscataine	14 41 29	91 07					Closed	1-25-49	
Bloomfield 2 mi. E	0753	Davis	8 40 47	92 26	825	7P	7P	Mrs. Leo Foster	2 3 5	Newton	5953	Chickasaw	27 43 04	92 19	1156	7P	7P	Loddy Brilicka	2 3 5		
Boone	0507	Boone	5 42 04	93 53	1126	EP	EP	E. G. Kolb	2 3 5	North English	6076	Iowa	21 41 42	93 04	950	7P	7P	Al A. Schaefer	2 3 5		
Britt	0923	Hancock	10 43 04	93 49	1284	6P	6P	Rev. S. A. Rust	2 3 5	Northwood	6103	Worth	4 43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5		
Burlington WB Airport	1063	Des Moines	14 40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5	Norwich SCE Exp Para 2E	6119	Page	22 40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5		
Carroll	1233	Carroll	20 42 04	94 52	1280	7P	7A	Ben H. Schankelberg	2 3 5	Oakland 3 mi. E	6151	Pottawattamie	16 41 19	95 23	1150	6P	6P	Ward D. Heinke	2 3 5		
Cascade	1257	Dubuque	12 42 18	91 00	880	7P	7P	Bob Zimmerman	2 3 5	Oasis	6186	Johnson	10 41 43	91 24					Ed. Radors	2 3 5	
Castana 4 mi. E	1277	Monona	11 42 04	93 42				E. J. Cable	3	Oelwein	6200	Vayette	27 42 40	91 55	1038	6P	6P	Milo W. Frase	2 3 5		
Cedar Falls	1300	Black Hawk	4 43 32	92 27	875	7P	7A	John T. Wurster	2 3 5	Onawa	6243	Monona	15 42 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5		
Cedar Rapids No. 1	1319	Linn	4 41 58	91 40				C. W. Simon	3	Osage	6305	Mitchell	4 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5		
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40				Earl McIntire	2 3 4 5	Osceola	6316	Clarke	6 41 02	93 46	1138	6P	6P	Ray A. Kerns	2 3 5		
Centerville	1354	Appanoose	5 40 43	92 53	1013	7P	7P	Ellis Shaw	2 3 5	Oskaloosa	6327	Mahaska	6 41 17	92 40	813	6P	6A	Cliff. Bergstromer	2 3 5		
Chariton 3 mi. E	1394	Lucas	5 41 00	93 15	940	7P	7P	U.S. Weather Bureau	2 3 4 5	Ottumwa 1 mi. SW	6386	Wapello	6 41 01	92 28	649	7P	7P	C. L. Winkler	2 3 4 5		
Charles City	1402	Floyd	4 43 04	93 40	1013	MID	MID	J. Earl Wirth	2 3 4 5 6	Ottumwa AP CAA	6389	Wapello	6 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5		
Charokey	1442	Charokey	13 42 45	95 33	1358	7P	7P	Walter L. Weakland	2 3 5	Ottumwa	6391	Wapello	6 41 00	92 24	820	7A			Winfrey Kianzer	3	
Clarinda	1533	Page	17 40 44	95 01	1004	7P	7A	George Reeder	2 3 5	Perry 2 mi. SE	6566	Dallas	20 41 51	94 08	975	7P	7P	Eugene W. Hastie	2 3 5		
Clarion	1541	Wright	2 42 44	93 44	1170	7P	7P	Samuel W. Williams	2 3 5	Pochantas	6719	Pochantas	6 43 44	94 40	1228	5P	5P	Thomas A. Mc Mahon	2 3 5		
Clinton No. 1	1635	Clinton	14 41 50	90 11	899	7P	7A	David W. Swift	3	Pringhar	6800	O'Brien	11 45 05	95 38	1517	6P	6P	R. A. Kallard	2 3 5		
Clinton No. 2	1640	Clinton	14 41 50	90 11	899	7P	7A	David W. Swift	3	Red Oak	6940	Montgomery	16 41 01	95 13	1077	EP	MID	Clarence M. Totty	2 3 5		
Columbus Junction	1731	Louisa	10 41 17	91 22	593	6P	6P	Alice Best	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16 41 01	95 14					Mrs. E. M. Conrad	3	
Coon Rapids	1793	Carroll	20 41 51	94 39				Charles W. Smith	3 4	Reamos	6975	Plymouth	7 42 40	95 58					Municipal P & L Pl.	3 4	
Corning 2 mi. E	1823	Adams	17 41 00	94 43	1285	6P	6P	John W. Morris	2 3 5	Ringsted 5 mi. NE	7058	Emmet	6 43 21	94 32					Ivan H. Watts	3 4	
Council Bluffs 6 mi. SE	1869	Pottawattamie	41 20	95 49				Mrs. H. O. Crane	3 4	Riverton	7085	Fremont	18 40 41	95 35	920	7P	7P	William Stubbs	3		
Council Bluffs 5 mi. NE	1880	Pottawattamie	41 19	95 49				Perry C. Crandall	2 3 5	Rock Rapids	7147	Lyon	1 43 26	96 10	1341	7P	7P	George Kaveling	2 3 5		
Cresco	1954	Howard	23 43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Rockwell City	7161	Calhoun	30 42 34	94 37	1223	7P	7P	F. C. Deitelspacher	2 3 4 5		
Creston	1992	Union	19 41 03	94 22	1300	7P	7A	Wellie Spangler	2 3 5	Sac City	7332	Sac	20 42 30	94 59	1274	EP	EP	W. Floyd Wary	2 3 5		
Cumberland 5 mi. NW	2007	Case	17 41 18	94 35	1225	6P	6P	Carl E. Pollock	2 3 5	Saint Ansgar 2 mi. NW	7326	Mitchell	4 43 24	92 56					Donald E. Cowell	3 4	
Cushing 3 mi. NE	2028	Ida	11 42 30	95 39	1350	7P	7P	H. P. Lanher	2 3 5	Saint Charles	7340	Madison	6 41 18	95 47					Rosa E. Wise	3 4	
Dakota City	2037	Humboldt	8 42 44	94 13	1133	7P	7P	H. B. Brandsgard	2 3 5	Sanborn	7380	O'Brien	7 43 11	95 39	1552	7P	7P	Miss Eunice O'Dow	2 3 5		
Davenport WB City	2069	Scott	14 41 30	90 35	379	MID	MID	U.S. Weather Bureau	2 3 5	Shaffield	7572	Franklin	4 42 54	93 13	1418	7P	7P	Richard J. Galvin	3 4		
Decorah Dry Run	2110	Winnechick	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Sheldon	7594	O'Brien	7 43 10	95 51					Rose E. Forward	2 3 5	
Decorah 2 mi. S	2112	Winnechick	24 43 13	91 47	860	7P	7A	Charles Carlson	2 3 5	Shell Rock	7602	Butler	4 42 43	92 33					Klaer J. Apfel	3 4	
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Shenandoah	7613	Page	16 40 46	95 23					Zafi May Seed Co.	2 3 5	
Denison 2 mi. S	2171	Crawford	4 42 00	93 23	1307			E. H. Rugg	2 3 5	Sibley	7684	Osceola	1 42 24	95 45	1494	6P	6P	R. D. Stewart	2 3 5		
Darby	2186	Lucas	5 49 58	93 27				Lloyd A. Kirk	3 4	Signonsay	7678	Keokuk	21 41 20	92 12	780	7P	7A	Grace L. Sanderson	2 3 5		
Des Moines WB Airport	2203	Polk	6 41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5	Sioux Center	7700	Sioux	1 43 05	96 10	1456				Richard J. Kroon	3 4	
Des Moines WB City	2208	Polk	6 41 35	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5	Sioux City 8 mi. W	7793	Plymouth	15 42 38	96 24					Leo Vondrak	3	
Dexter	2240	Dallas	6 41 30	94 14				Joseph H. Harlan	3 4	Sioux City WB Airport	7798	Woodbury	15 42 23	96 23	1093	MID	MID	U.S. Weather Bureau	2 3 4 5		
Dorchester	2311	Alamakee	24 43 25	91 32																	

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

MAY 1949

Volume LX No. 5



KANSAS CITY: 1949

C. E. Lamoureux, Section Director - Des Moines

GENERAL SUMMARY

The weather during May 1949 was warm and dry. Although showers occurred on 10 to 13 days, the amount of rain was small so that all sections except the northwest and extreme southwest counties received monthly amounts of 1 1/2 to 2 1/2 inches below normal. This dry spell was a continuation of the dry weather in April; however, this deficiency in rainfall had little or no agricultural effect. The many days of open weather allowed Iowa farmers to keep abreast of their spring plantings, and spring crops and all vegetation made excellent progress during the month.

The driest areas during the month were in the extreme east along the Mississippi River and in the five central counties, Polk, Story, Marshall, Poweshiek and Jasper. Reports from these areas showed rainfall amounts of only 1 to 1 1/2 inches. Conversely, the heaviest rains occurred in the six northwest counties of Clay, O'Brien, Sioux, Plymouth, Buena Vista and Cherokee, and in the southwest counties of Pottawattamie, Cass, Montgomery and Mills. In these favored areas, rainfall amounts ranged from 4 to 5 inches; the heaviest being 5.58 inches at Sioux Rapids in Buena Vista county.

In general the first 20 days of the month were the warmest; however, the first week of the month was the hottest. Temperatures reached their peak on the 3rd when 90° readings were general and a high of 95° was recorded at Onawa in western Monona county. This period was also accompanied by 3 to 4 days of strong drying winds causing some soil erosion, as well as depleting the top soil moisture. Brief, but welcome showers broke the hot spell on the 5th, but only the extreme northwest reported general amounts greater than 1/2 inch. Iowa farmers began their usual corn planting during the first week but the bulk of the planting occurred during the 2nd and 3rd week of the month. From the 8th until the 22nd, local showers occurred on most days in some sections of the State. However, the western half reported the most frequent rains and also the heavier amounts. On the 16th and 17th, several windstorms were reported in the western half of the State in connection with thunderstorm activity. At Stuart in Guthrie county, on the afternoon of the 16th, a small tornado swept through a four block area in the northern part of town damaging a church, one home and five barns. The storm path was very narrow, limiting the damage. It was estimated that 3 inches of rain accompanied the storm.

On the 17th, damage from a windstorm was reported in the Sioux River Valley. At Merrill, trees and small buildings were damaged and some communications lines were down. At Sioux City, wind gusts were observed near 70 mph with similar damage being reported.

Cooler weather spread across the State on the 20th and this spell lasted until the last couple of days of the month. The most generous and widespread rains occurred on the 20th and 21st which ushered in the cooler temperatures. On the afternoon of the 21st, one and possibly two tornadoes occurred. The first was at Pittsburg, a small community 3 miles northwest of Keosauqua. The storm path was about 1/4 mile wide and 1/2 mile long in the residential area, so that eight homes were damaged, as well as several barns and smaller buildings. No personal injuries or deaths were reported. Storm damage to property was estimated as \$30,000. At 5:30 P.M., about 1 1/2 hours later, either a severe windstorm or small tornado struck two miles north of West Point in Lee county. Damage was confined to five farmsteads; no deaths or injuries were reported. During this cool period, on the 24th, night-time temperatures fell into the 30's in northern Iowa and a reading of 32° and frost was reported at Inwood in Lyon county. No rain of consequence fell during the last week.

The intermittent showers that fell on many days during the month interfered a little with the usual farm work but the need for moisture offset any delays. Actually, most of the corn was planted by the end of the 3rd week which compared favorably to the banner years of 1946 and 1948. Since rains were light to moderate, there were no drowned out areas; replanting was confined to mainly worm damage. The cool weather near the end of the month interfered a little with the soybean plantings in northern Iowa; yet, by the end of the month three-fourths of the acreage was in the ground. Meadows and pastures were in average condition but more rains were needed to maintain their growth.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
MAY 1949

Station	Sea level pressure extremes—Inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E.S.T.	7:30 a. E.S.T.	1:30 p. E.S.T.	7:30 p. E.S.T.	Percent of possible	
Exvliington WB Airport	30.26	10	29.36	21	12.1	38	W	1	78	80	54	59	71	94
Charles City WB City	30.33	10	29.49	1	7.0	28	SW	3					54	164
Davenport WB City	30.29	10	29.39	23										105
Des Moines WB City	30.29 a	10	29.39 a	21	10.0	29	S	3	76 a	81 a	58 a	58 a	56	85
Dubuque WB City	30.33	10	29.47	23	5.6	17	S	3	72	75	52	53	66	140
Sixax City WB City	30.27	7	29.41	1	11.3	52	W	17	80	88	61	57	65	113

a -- airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	86.5	86	38	5.89			1883	54.6	90	31	6.25		1933	60.5	93	32	4.36	0	12	
1874	84.1	94	41	1.88			1884	59.6	88	33	3.15		1934	69.6	111	30	1.02	0	4	
1875	80.5	91	26	2.94			1885	57.4	86	27	3.44		1935	55.0	84	23	4.84	0.3	15	
1876	81.1	90	32	2.84			1886	56.3	93	37	4.06		1936	66.2	95	31	2.91	0	9	
1877	80.3	92	29	4.36			1887	64.6	96	34	1.55		1937	61.8	95	27	4.07	0	12	
1878	85.7	88	32	5.01			1888	53.8	89	22	6.58		1938	59.5	89	29	5.45	0.6	14	
1879	82.9	93	26	4.38			1889	58.2	92	22	4.06		1939	66.4	105	30	2.07	0	7	
1880	86.3	96	37	4.06			1890	56.5	98	26	3.64		1940	58.4	96	26	2.07	0.1	8	
1881	86.7	95	35	3.73			1891	58.3	94	21	3.18		1941	66.0	97	31	3.26	T	9	
1882	84.3	83	24	5.42			1892	54.0	88	29	8.77	T	16	1942	59.3	95	26	4.70	T	12
1883	54.6	90	31	6.25			1893	56.8	96	28	3.48	0	9	1943	57.5	97	21	4.40	T	12
1884	59.6	88	33	3.15			1894	61.1	96	22	1.87	0	6	1944	64.6	95	23	6.13	0.3	15
1885	57.4	86	27	3.44			1895	61.7	104	24	3.19	0	9	1945	55.1	89	21	6.17	0.8	15
1886	56.3	93	37	4.06			1896	65.3	100	34	6.69	0	13	1946	56.5	89	19	4.45	0.1	13
1887	64.6	96	34	1.55			1897	58.5	96	20	1.92	0	5	1947	55.8	91	22	4.26	1.1	12
1888	53.8	89	22	6.58			1898	59.6	92	26	4.67	0	12	1948	59.2	97	26	2.34	0	7
1889	58.2	92	22	4.06			1899	60.2	90	27	6.23	0	13	1949	63.5	95	28	2.68	T	10
1890	56.5	98	26	3.64			1900	63.2	96	22	3.31	0	8							
1891	58.3	94	21	3.18			1901	60.7	95	26	2.35	0	7							
1892	54.0	88	29	8.77	T	16	1902	63.8	97	25	5.39	0	13							
1893	56.8	96	28	3.48	0	9														
1894	61.1	96	22	1.87	0	6														
1895	61.7	104	24	3.19	0	9														
1896	65.3	100	34	6.69	0	13														
1897	58.5	96	20	1.92	0	5														
1898	59.6	92	26	4.67	0	12														
1899	60.2	90	27	6.23	0	13														
1900	63.2	96	22	3.31	0	8														
1901	60.7	95	26	2.35	0	7														
1902	63.8	97	25	5.39	0	13														
1903	61.6	91	24	8.55	0	16	1903	61.6	91	24	8.55	0	16	1933	60.5	93	32	4.36	0	12
1904	59.6	93	27	3.78	0	8	1904	59.6	93	27	3.78	0	8	1934	69.6	111	30	1.02	0	4
1905	58.3	88	28	5.95	0	14	1905	58.3	88	28	5.95	0	14	1935	55.0	84	23	4.84	0.3	15
1906	60.8	95	24	3.54	0	11	1906	60.8	95	24	3.54	0	11	1936	66.2	95	31	2.91	0	9
1907	53.5	96	14	3.48	1.0	10	1907	53.5	96	14	3.48	1.0	10	1937	61.8	95	27	4.07	0	12
1908	59.4	93	13	6.34	0	15	1908	59.4	93	13	6.34	0	15	1938	59.5	89	29	5.45	0.6	14
1909	57.9	97	18	4.34	0.1	9	1909	57.9	97	18	4.34	0.1	9	1939	66.4	105	30	2.07	0	7
1910	55.4	89	18	3.41	T	10	1910	55.4	89	18	3.41	T	10	1940	58.4	96	26	2.07	0.1	8
1911	64.9	98	23	3.76	0.7	9	1911	64.9	98	23	3.76	0.7	9	1941	66.0	97	31	3.26	T	9
1912	62.7	97	20	3.33	0	10	1912	62.7	97	20	3.33	0	10	1942	59.3	95	26	4.70	T	12
1913	59.4	102	30	6.24	0	13	1913	59.4	102	30	6.24	0	13	1943	57.5	97	21	4.40	T	12
1914	62.2	98	25	3.31	T	10	1914	62.2	98	25	3.31	T	10	1944	64.6	95	23	6.13	0.3	15
1915	56.1	99	25	7.34	T	14	1915	56.1	99	25	7.34	T	14	1945	55.1	89	21	6.17	0.8	15
1916	59.9	94	27	4.93	T	12	1916	59.9	94	27	4.93	T	12	1946	56.5	89	19	4.45	0.1	13
1917	55.1	95	25	3.87	0.6	10	1917	55.1	95	25	3.87	0.6	10	1947	55.8	91	22	4.26	1.1	12
1918	64.9	98	25	6.87	T	13	1918	64.9	98	25	6.87	T	13	1948	59.2	97	26	2.34	0	7
1919	58.2	93	30	3.11	0	9	1919	58.2	93	30	3.11	0	9	1949	63.5	95	28	2.68	T	10
1920	59.4	89	29	3.26	0	8	1920	59.4	89	29	3.26	0	8							
1921	63.3	99	25	4.23	0	10	1921	63.3	99	25	4.23	0	10							
1922	63.4	91	34	3.53	0	12	1922	63.4	91	34	3.53	0	12							
1923	59.6	90	20	2.84	T	10	1923	59.6	90	20	2.84	T	10	PERIOD	60.1	111	13	4.06	0.1	10
1924	54.1	94	26	1.71	0.1	9	1924	54.1	94	26	1.71	0.1	9							
1925	57.8	102	20	1.18	T	6	1925	57.8	102	20	1.18	T	6							
1926	64.5	97	25	2.76	0	9	1926	64.5	97	25	2.76	0	9							
1927	58.4	91	30	4.69	T	11	1927	58.4	91	30	4.69	T	11							
1928	62.6	93	26	2.47	0	8	1928	62.6	93	26	2.47	0	8							
1929	57.7	91	24	2.47	T	8	1929	57.7	91	24	2.47	T	8							
1930	60.2	91	26	3.72	T	11	1930	60.2	91	26	3.72	T	11							
1931	67.5	98	21	2.99	T	9	1931	67.5	98	21	2.99	T	9							
1932	62.3	95	28	3.99	0	10	1932	62.3	95	28	3.99	0	10							

REFERENCE NOTES

- The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.
- Delayed data and corrections will be carried only in the June and December issues of this bulletin.
- Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.
- Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.
- When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- Amounts in Table 4 are from recording gages. Traces are not shown.
- Amounts in Table 3 are from non-recording gages, unless otherwise indicated.
- Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.
- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

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W. B. O., Kansas City -- 7-14-49 -- 1170

CLIMATOLOGICAL DATA

IOWA
MAY 1949

Table 2

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	63.0	3.0	91	3	37	24	1		4.48	.09	1.12	22				10	4	2
Alton	63.5	4.5	93	3	36	2	3		4.38	.63	2.00	21				12	5	1
Cherokee	62.7	3.1	91	3	36	24	1		4.16	.36	2.01	21				11	4	1
Emmetsburg	62.2		91	3	28	9	1	1	3.04	.92	.92	21				8	5	1
Estherville	62.3	4.6	92	3	35	24	1		3.55	-.47	1.11	22	T			9	5	1
Hawarden	63.9	4.5	93	3	36	24	2		4.08	.58	2.35	21				13	5	1
Inwood 2 W	62.2	3.6	92	3	32	24	1	1	3.97	.47	1.07	21	T			13	5	1
Lake Park	60.8	2.5	89	3	29	17		1	4.27	.47	1.10	14				7	5	2
Le Mars	63.7	4.0	94	3	37	24	2		5.34	1.40	2.11	21				8	6	2
Milford 4 NW	61.7	3.4	92	3	39	2	2		3.83	.03	1.05	5				10	6	1
Pocahontas 2 SE	63.4	4.2	90	3	38	10	1		3.38	-.46	.92	17				8	5	
Primghar	64.3	5.5	92	3+	34	24	2		4.56	.86	1.46	16				9		
Rock Rapids	62.5	4.1	92	3	35	24	1		4.04	.54	1.55	21	T			10	6	1
Sanborn	60.8	2.4	91	3	32	24	1	1	4.10	.40						13		
Sheldon	62.2	3.7	92	3	35	24	2		4.37	.72	1.14	21	T			13	7	1
Sibley	61.9	4.5	92	3	33	24	2		2.71	-.99	.80	21				10	4	
Sioux Rapids	62.2	2.7	93	3	35	24	2		5.58	1.78	1.61	21				8	6	3
Spencer 1 N	61.2	2.7	92	3	34	24	2		4.43	.68	.99	17				10	7	
Storm Lake 2 E	62.6	3.4	90	3	37	24	1		5.12	1.22	1.87	21				8	5	2
DIVISION	62.5	3.7							4.18	.40								
NORTH CENTRAL DIVISION																		
Algona	63.1	3.5	90	3	38	24	1		2.47	-1.65	1.04	21				8	4	1
Allison	63.5	4.2	92	3	39	24	2		3.63	-.72	.90	14				14	4	
Britt	62.6	3.9	93	3	33	24	1		1.95	-2.35	.60	21				12	2	
Charles City	61.5	3.0	90	3	39	24	1		2.11	-2.32	.66	5	T			12	4	
Clarion	62.0	2.5	90	3	36	24	1		3.67	-.38	.90	11				9	7	
Dakota City	62.9	3.2	89	3	38	24			3.15	-.87	.58	18	T			8	7	
Hampton	62.7	3.7	90	3	39	24	1		2.14	-2.31	.47	21				11	4	
Mason City 3 N	61.5	3.2	90	3	36	24	1		1.40	-2.76	.52	21				8	1	
Mason City AP CAA	60.3	2.0	91	3	35	24	1		1.67	-2.49	.47	21				10	2	
Northwood	61.8	4.0	91	3	35	24	1		1.84	-2.69	.49	22	T			9	3	
Osage	61.2	3.4	90	3	35	24	1		1.65	-2.74	.57	22				8	2	
DIVISION	62.1	3.3							2.94	-1.90								
NORTHEAST DIVISION																		
Cascade	61.7		91	5	37	8+	1		1.41		.90	22				8	1	
Cresco	61.4	3.9	91	3	35	24	1		2.31	-2.09	.60	13				10	5	
Decorah Dry Run	62.2		92	3+	34	26	3		1.54		.39	14				10	2	
Decorah 2 S	59.2	2.0	88	3+	30	26+	2	2	1.36	-3.06	.60	13				9	1	
Delaware 2 W	61.8	2.9	93	5	35	10	1		1.35	-2.65	.88	22				6	1	
Dubuque Lock & Dam 11	61.0	.7	88	5	37	10			2.48	-1.42	1.93	22				8	2	1
Dubuque WB City	63.1	2.8	92	5	39	10	1		1.95	-1.95	.85	21				7	3	
Elkader	60.8	2.2	92	5	36	11+	1		1.59	-2.56	.52	21				8	2	
Fayette	61.0	2.0	90	3+	35	26	2		1.65	-2.70	.46	21				13	2	
Guttenberg Lock & Dam 10	62.3	1.5	92	5	38	10	1		1.98	-2.07	1.10	22				10	2	1
Independence 2 W	62.3	2.9	90	3+	36	11	2		1.81	-2.25	.67	22				8	2	
New Hampton	58.9	.6	89	3	32	24		1	1.45	-3.10	.40	21				11	2	
Oelwein	62.4	3.2	92	5	40	24+	2		2.13	-1.97	.63	15				13	3	
Tripoli	62.9		90	3	38	10+	1		1.92		.90	21	T			12	1	
Waterloo	62.5	2.4	90	3+	41	10	2		2.04	-1.80	.93	22				9	3	
Waukon	58.5		88	5	33	10			1.70	-2.70	.40	13				9	2	
DIVISION	61.4	2.4							1.79	-2.38								
WEST CENTRAL DIVISION																		
Audubon 2 S	61.7	1.4	85	3	37	24			2.72	-.79	.93	21				8	4	
Carroll	64.0	4.1	88	3	38	24			2.30	-1.52	.54	17	T			10	5	
Castana 4 E	62.7		91	4	36	24	1		2.50		.91	18				11	3	
Cushing 3 NE	62.7	3.0	91	3	38	24	1		3.92	.32	1.32	21				12	6	1
Denison 2 S	63.2	3.0	91	3	37	24	1		3.71	-.01	1.02	21				13	6	1
Guthrie Center	62.9	3.0	86	5	41	24			3.00	-.79	1.12	16				9	4	2
Harlan	64.6	4.1	89	3	38	2			2.75	-.84	.92	21				11	4	2
Ida Grove 4 S	64.2 M	4.2	92	3			2		4.38	.73	1.44	18				10	4	
Jefferson	63.3	2.8	86	3	39	24			2.20	-1.70	.62	21				11	2	
Lake City	63.8	3.8	89	3	38	24			3.58	-.22	1.03	21				8	4	1
Logan	64.2	2.5	92	3	38	24	1		3.07	-.40	.97	21	T			11	4	
Mapleton 5 NW	63.5	2.9	93	3	37	24	2		2.46	-1.18	1.10	17				6	3	1
Missouri Valley	66.4	3.9	92	3	39	24	1		2.86	-.44	.97	21				11	4	
Onawa	64.8	3.0	95	3	36	24	2		2.72	-1.05						12	3	
Rockwell City	63.6	3.8	89	3+	38	24			2.63	-1.51	.90	21				8	3	
Sac City	63.1 M	3.4	90	3	40	24	1		4.27	.65	1.23	18				9	5	1
Sioux City WB Airport	64.1	4.2	94	3	37	24	2		4.20	.60	1.31	21	T			14	5	1
DIVISION	63.8	3.2							3.16	-.52								
CENTRAL DIVISION																		
Ames 3 SW	63.2	2.6	89	3	40	11			1.36	-2.82	.28	23				12	1	
Boone	64.7	4.5	91	31	42	24	1		1.96	-2.19	.48	23				12	4	
Des Moines WB Airport	64.7	3.7	88	3+	43	11+			1.23	-2.85	.53	16				10	2	
Des Moines WB City	65.3	3.5	89	5	41	11			1.23	-2.85	.48	21				10	2	
Fort Dodge	63.0	3.4	89	3	39	24			2.26	-1.71	.47	23				13	3	
Grinnell	63.9	2.8	89	3+	40	24			1.11	-3.10	.47	22				7	2	
Grundy Center 4 NE	62.4	3.2	91	3	39	10+	1		1.20	-3.08	.43	22				11	1	
Iowa Falls 1 N	62.0	2.6	90	3	39	24	1		3.21	-.80	.68	15				10	7	
Marshalltown No. 1	63.5	2.7	91	3	40	10+	2		2.27	-1.77	.72	15	T			10	4	
Newton	65.0	3.8	89	5	43	2+			1.47	-2.68	.52	22				5	3	

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
MAY 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Perry 2 SE	63.4	2.3	88	5	41	24			2.45	-1.36	1.25	16				9	3	1
State Center	65.1	4.6	88	5	42	24			1.81	-2.29	.46	23				10	3	
Toledo	63.1	2.7	91	3	40	10	1		2.13	-2.13	.59	25	T			13	3	
Wauke	66.1	4.9	90	5	44	11	1		2.66	-1.21	.77	16	T			7	4	
Webster City	63.0	3.3	90	3	39	10+	1		2.52	-1.53	.50	11	T			15	5	
Woodward 7 N	64.2	3.7	88	3+	41	24			1.57	-2.48	.42	6	T			11	2	
DIVISION	63.9	3.3							1.90	-2.18								
EAST CENTRAL DIVISION																		
Anamosa 1 NW	61.3	1.4	91	5	38	10+	1		2.08	-1.86	.82	22				11	2	
Belle Plaine	63.7	3.0	92	5	40	10	2		2.11	-2.09	.89	22	T			11	3	
Bellevue Lock & Dam 12	62.2	1.6	91	5	35	11	1		2.46	-1.34	1.31	22				7	3	1
Cedar Rapids No. 1	63.3	2.2	93	5	40	10+	2		2.40	-1.32	1.11	22				14	1	1
Clinton No. 1	63.4	2.2	92	5	37	11	2		1.14	-2.89	.46	22				9	2	
Davenport WB City	65.0	3.1	91	5	41	10	1		2.37	-1.20	1.35	21				9	2	1
Iowa City	63.8	2.8	91	5	39	11	1		2.92	-1.32	.73	22				14	5	1
Iowa City AP CAA	63.1	2.1	92	5	37	11	1		3.65	-.59	1.50	21				12	4	1
Le Claire Lock & Dam 14	64.4		88	5	41	11			1.44	-2.47	.45	22				9	2	
Maquoketa 5 E	62.3	1.7	90	5	36	11	1		1.71	-2.04	.87	22				9	2	
Monmouth 4 SW	61.1	.5	92	5	35	11	1		.92	-2.88	.30	22				7	2	
Muscatine No. 1	65.5	3.9	93	5	40	10	1		2.11	-1.58	.67	21				11	2	
Tipton	63.1	2.2	92	5	38	8+	2		1.40	-2.30	.36	22				10	1	
Vinton	63.2	2.3	92	5	39	26	2		2.14	-1.96	.80	22				6	3	
Williamsburg	63.5	2.4	92	5	40	11+	1		3.91	.01	1.93	22				12	4	1
DIVISION	63.3	2.4							2.18	-1.69								
SOUTHWEST DIVISION																		
Atlantic 1 E	64.2	3.1	87	3+	38	24			5.43	1.88	1.63	21				14	8	1
Atlantic AP CAA	63.0	1.9	86	3	39	2			4.43	.88	2.21	21				12	4	1
Bedford 1 N	64.4	2.9	85	3+	41	2+			2.41	-1.73						5		
Clarinda	65.0	3.2	88	5	40	2			2.90	-1.16	.70	21				14	4	
Council Bluffs 5 NE	65.3		92	3	40	24	1		4.56		1.45	21				11		1
Glenwood 2 E	65.6	2.9	90	3	38	2	1		4.45	1.20	1.23	21				13	8	1
Greenfield	63.6	3.1	86	4	39	2			3.74	-.06	1.90	21				12	4	1
Norwich 2 E SCS Farm	64.6	3.0	86	5	41	2			4.36	.26	2.05	21				13	6	1
Oakland 2 E	64.4	2.9	89	3	39	2+			4.05	.65	1.12	21	T			13	6	1
Red Oak	64.7	3.1	85	3+	37	2			4.25	.17	1.12	21				13	5	1
Shenandoah	66.0	3.0	88	3+	40	2			3.74	-.36	1.20	21				13	6	1
Sidney	68.2		88	3	45	2			3.34		.86	9				12	4	
DIVISION	64.9	3.1							3.97	.12								
SOUTH CENTRAL DIVISION																		
Albia	65.1	3.5	88	5	42	10			2.66	-1.42	1.02	22	T			9	4	1
Centerville	65.4	2.7	87	5	43	11			3.24	-1.06	.91	21	T			8	7	
Chariton 3 E	64.8	4.0	87	3+	42	25+			2.64	-1.10	1.80	21				6	2	1
Creston	64.2	4.1	87	5	40	2			2.76	-1.14	1.09	22				13	4	1
Indianola	66.4	4.6	90	5	40	10	1		1.73	-2.29	.60	16				8	2	
Knockville 2 W	65.9	3.9	90	5	42	10	1		1.64	-2.10	.78	21				5	2	
Lamoni	65.0	3.7	87	5	42	2+			2.18	-1.75	.72	21	T			9	4	
Millerton	64.5	3.0	86	3+	41	11			2.12	-2.00	.77	21				7	4	
Mount Ayr 2 N	66.1	4.6	87	5	42	2			2.38	-1.82	.57	21				12	3	
Osceola	65.7	4.4	88	3+	43	2+			2.33	-1.87	.80	16				10	3	
Tingley	64.5	3.1	88	5	40	2+			2.58	-1.32	.65	9+				13	3	
Winterset	65.6	3.7	88	5	42	24			2.54	-1.38	1.17	21				8	3	1
DIVISION	65.3	3.8							2.40	-1.62								
SOUTHWEST DIVISION																		
Bloomfield 2 N	65.0 M	2.9	90	5	40	11	1		2.84	-1.46	1.37	21	T			10	3	1
Burlington WB Airport	65.2	3.1	92	5	41	11	2		.96	-3.18	.27	1				10	1	
Columbus Junction	64.4	2.6	91	5	40	11	1		3.19	-.77	.82	23				9	5	
Fairfield	65.1	3.7	90	5	40	11	1		2.10	-2.10	.99	21				8	2	
Keokuk Lock & Dam 19	67.0	3.6	88	5	45	10+			1.51	-2.32	.33	26	T			12	1	
Keosauqua State Park	65.7 M	3.5					1		2.38	-1.65	1.17	21				9	2	1
Mount Pleasant	65.4	3.0	90	5	39	11	1		1.56	-2.41	.76	21				7	1	
Oakaloosa	65.5	4.0	89	5	42	11			2.14	-1.61	1.30	22				8	2	1
Ottumwa 1 WBW	65.8 M	2.7	90	5	40	11	1		2.40	-1.70	.89	21	T			6	5	
Ottumwa AP CAA	65.0	1.9	90	3+	43	10	2		3.55	-.55	1.71	21	T			10	4	1
Sigourney	65.2	3.4	90	5	42	10	1		3.22	-.69	1.88	21	T			7	3	1
Washington	64.9	3.1	91	5	39	11	1		1.73	-1.98	.50	21				6	3	
DIVISION	65.4	3.3							2.30	-1.68								
STATE	63.5	3.1							2.68	-1.88								

See reference notes following Station Index

DAILY PRECIPITATION

IOWA
MAY 1949

Table 3

Station	Day of month																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Afton	.16		T					.15				T																		.01	4.00		
Akron	.08				.33			.30				.32																			2.66		
Albia	.14	.02								.37	.02																				2.47		
Algona	T											.04		.09																	2.05		
Allerton	.11							.53																							3.63		
Allison	.15	.20		T		.09						.61	.04	.09	.90	.05	.15	.08													4.48		
Alta	T	T								.22		.05			.21		.70	1.06							.14						4.38		
Alton	.05				.83			.17			.25	T	.25	.20	.06	.25	.22														1.36		
Ama 3 SW	.18	T		T	T	.04		.07	.10		.05			.09	.07	.15	.16														2.08		
Anamosa 1 NW	.12		T												.23	T	.11	.02		.51	T										5.43		
Atlantic 1 E	.03				.18	.44		.30	.69						.36	.78	.37	.20		.29	.01	1.63	.13	.02							4.43		
Atlantic AP CAA	.01				.07	.39		.33	.47						.19	.11	.20	.14	.20	.11		2.21		T							2.72		
Audubon 2 S	.14				T	.12		.26							.15	.35	.53	.24	T			.93	T								1.21		
Augusta	.25									.25							.04	T	T			.22	T	.45	T						-		
Bancroft																	.10	.21	.62				.84	.20			.90	T				3.86	
Bartlett 3 E					T	.25		.32	.55						.15	.50				.60			.97	.10	.18							2.41	
Beaver 1 W	.05				.19	.02		.12							.42	.01	.36	.01					.26									2.11	
Bedford 1 W					T			T							.61	.15	.55						1.10									2.46	
Belle Plaine	.08	T		T	T			.07	.02		T	T			.12	.04	.16	.01		T	T	.27	.89	.19								2.46	
Bellevue L & D 12		.39													.07		T	.02	.54	.10	T		1.31	T	.03	T						2.46	
Blockton 2 S	.28							.05	.30						.07	.77				.07			.65									2.84	
Bloomfield 2 W	.15							.50	.08						.18	.28			.18	.08			1.37									1.96	
Boone	.11				.26	.03		.08			.01				.27	.08	.31	.04			T	.15	.14	.48							1.93		
Britt	T			T	.21	.10		T			.05				.15	.03							.60	.05	.03							.96	
Burlington WB Airport Z //	.27						T	.15	.03			T			T	.02	.01	T	.15	T		.20	.02	.03								2.30	
Carroll	.04					.38		.12							.15	.30	.54	.10				.38	.28	.01								1.41	
Cascade	.19										.04				.03	.03	.05	.03	.05	T			.52	.02	.05							2.50	
Castana 4 E	.07					.08		.29			.07				.05	.09	T	.15	T	T			.25	.40	.28							1.80	
Cedar Falls	.07	.04										T			.16	T	.11	T	.23	.01	T		1.11	.13	.02	.18	.13	.09	.04			2.40	
Cedar Rapids No. 1		.05			T		T		.06																								2.47
Cedar Rapids No. 2		.06							.07			T			.16	T	.12	T	.30	.02	T	1.18	.18		.22	.03	.02	.02				3.24	
Centerville	.30							.50	.36			.16			.40			.33					.91		.28							2.64	
Chariton 3 E	.12							.14	.10						.36	T				T		1.80										2.11	
Charles City	.25			T	.66	T					.20		.20	.04		.01	.28	.01	T			.38	.05	.05								4.16	
Cherokee	T			.02	.75			.13	T		.11				.07	T	.11	.26	.57			2.01	.04	.09								4.16	
Clarence	.26							.10							T	.05	.15			.07			.56	.10								1.29	
Clarinda	.13	T				.10	T		.08	.56	.09				.24	.01	.40			.19	.01	.70	.31	.06								2.90	
Clarion	T				T			.02	T		.90				.50		.40	.15	.30			.55	.40	.40								3.67	
Clinton No. 1	.13														T	.06	.30	.04	.04	T			.46	.02	.28							1.14	
Clinton No. 2		.13													T	.04	T	.31	.01	T			.39	T	T	T	T					1.02	
Columbus Junction	.21							.25							.46	.19	.03						.53	.57	.82							3.19	
Coon Rapids	.07				.05	.15		.05							.18	.04	.33	.29				.28	.99	.09								1.92	
Coraing 2 E															T		.56																-
Council Bluffs 6 NE	.05					.35	.02	.82	.46						T	T	.10					.07	.08	.02	1.37	.04						3.66	
Council Bluffs 5 NE	.09				.34	.63		.39	*	.90					T	T	.10					1.45	.03	T								4.56	
Cresco	.15		.04			.42		.02	.43					.60	.27		.05	.02		.07	T		.36		.10							2.31	
Creston	.15	.02				.13		.02	.43						T	.24	.24		.30				1.09	.01									2.76
Cumberland 5 NW	.04					.14		.14	.80						T	.24	.24					1.97	.11	T								3.98	
Cushing 3 NE	T			T	.07	T		.43	T		.09	.02			.32	.01	.26	.23	.72			1.32	T	.26								3.92	
Dakota City	T				.44			T						.20	.42	T	.26	T	.58			.51		.34		.40	T					3.15	
Davenport WB City	.36						T	.05	.19						T	.04	T	.02	.04	T		1.35	T	.20		.12						2.37	
Decorah Dry Run	.12				.11							.03	.33	.39	.05	.12	.07	T		T		.20		.12								1.54	
Decorah 2 S	.18				T							.01	.60		.06	.21							.22	.03	.02	.03						1.36	
Delaware 2 W	.13													.19	.05	.05	.05	.05	T				.88									1.85	
Denison 2 S	.04				.02	.05		.32			.07				.08	.46	.31	.80	.43			1.02	.05		*							3.71	
Derby	.04							.15	.19						T	.38		*	.03			1.24	.01									2.04	
Des Moines WB Arpt	.03			T	.03	.01		.03	.09						T	.53	.07		.02	T		.41	.01	T								1.23	
Des Moines WB City	.04			T	.10			.06	.09						T	.01	.40	.62	.01	T		.48	.02	T								2.59	
Dexter	.01				.15	.25		.15	.34					.30	.05	.32	.09		.05			.86	.02									2.30	
Donnellson 4 W	.13							.25	T			.20			.03	.07			.02	.14		1.25	.13	.05	.03							2.30	
Dorchester													.30	.12									1.93	.01	.03	.02	T					.87	1.29
Dubuque L & D 11		.30		T								.03			.07	T	T	.09	T	T	T		.85	.53	.05	.04	T					2.48	
Dubuque WB City	.32	T										.11	T		.05				T	T		.33	.17	.27								1.95	
Dumont 4 NW	.15	T									.20		.03	.19	.02	.04	.23					.21	.21	.82	.07							1.85	
Dunbar 2 NE	.05	.03			T	.19		.06	.02		.09				.18		.33						.21	.21	.82	.07							1.77
Eddyville	.15																						.10	.86	.10								2.67
Eldora 2 W		.16				.09						.14		.08	.75		.40	.18															1.59
Elkader	.13												.14	.12	.30	T	.10	T															

HOURLY PRECIPITATION

IOWA
MAY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-6th-																									
Ames 3 SW					.02		.01																		.03
Atlantic AP CAA	//	.38	.01																						.39
Beaver 1 N			.01	.06	.02																				.02
Coon Rapids			.01		.08																				.15
Council Bluffs 6 NE		.03	.32																						.35
Des Moines WB Airport			.01																						.01
Des Moines WB City				.08	.01	.01																			.10
Dexter				.20	.05																				.25
Greenfield		.01	.12	.06																					.19
Hamburg		.05																							.05
Hornick				.04																					.04
Mason City AP CAA	6	.19	*	*	*	*	.01																		.18
Missouri Valley		.08	.10																				.02		.02
Monona																									.33
Norwich SCS Exp. Farm 2 E		.17	.15	.01																					.03
Saint Charles		.01	.01		.01																				.01
Sioux City WB Airport		.01																							.09
Soldier				.09																	.01	.01			.02
Spillville																									.34
Tabor 6 NW		.14	.19	.01																					.20
Wallin 2 WNW		.02	.17	.01																					.11
Woodbine 5 SE		.01	.10																						
-7th-																									
Council Bluffs 6 NE																							.01	.01	.02
Hamburg																									
North English																									
-8th-																									
Allerton					.02		.01	.01	.07	.01					.04	.30	.03	.03	.01						.53
Ames 3 SW															.02	.01	.01	.03							.13
Atlantic AP CAA	//																								
Beaver 1 N	//																								
Burlington WB Airport																							.01		.12
Centerville																									.15
Cherokee																									.43
Coon Rapids																									.15
Council Bluffs 6 NE		.01	.02	.01	.04	.01	.01	.05	.03	.02	.01	.02	.05				.01	.03	.02	.03	.01	.06	.13	.16	.19
Dakota City																									.05
Davenport WB City																									.05
Derby										.02	.04	.02			.01	.01	.01	.02	.03	.01					.15
Des Moines WB Airport															.01	.01	.01	.01	.01	.01					.03
Des Moines WB City															.01	.01	.01	.01	.01	.01					.06
Dexter															.04	.02	.02	.02	.02	.02					.15
Greenfield																	.01	.03	.01	.01					.05
Grinnell																	.01	.01	.01	.01					.02
Hamburg		.02	.05	.01	.01	.02		.05	.02	.02		.02	.01	.01	.01	.01	.06	.02	.01	.01	.01	.06	.20	.20	.01
Hinton 5 WNW																									.69
Hornick			.01		.01	.02	.01	.01	.01	.05	.01	.04	.01	.05	.01	.03	.01								.16
Ida Grove 4 S																									.21
Iowa City AP CAA	6														*	*	*	.18	*	*	*	*	*	*	.46
Iowa City Ralston Creek 1																		.04	.08	.03					.15
Iowa City Ralston Creek 2															.03			.01	.06	.05	.01				.16
Iowa City Ralston Creek 4																	.01	.02	.01	.10	.03	.01			.17
Iowa City Ralston Creek 5																		.02	.10	.06	.01				.18
Iowa Falls 1 N																									.03
Keokuk WB City																		.05	.02	.01					.08
Knoxville 2 W										.05	.03														.10
Lamoni							.05	.01							.01	.02	.01								.12
Larrabee															.01	.03	.01	.01	.01						.09
Lenox																		.03	.01						.39
Marshalltown No. 2																									.08
Missouri Valley			.01	.02	.03	.03	.01	.01	.01	.10	.03	.14	.07								.06	.01	.01		.01
Morse																			.02	.06	.02				.47
Morse 1 NE																			.02	.06	.01				.11
Morse 4 SSW																			.04	.07	.02				.09
Mount Ayr 2 N										.03	.01	.02	.04				*	*	.22			.09	.25	.06	.02
Mount Pleasant																									.22
Moville				.01	.01	.01				.01	.01	.02	.01	.04											.13
Muscataine No. 1																			.01	.11	.03	.01			.16
Muscataine 6 N																			.05	.10	.07				.24
Norwich SCS Exp. Farm 2 E			.03	.01	.04	.04	.01			.02					.01				.01			.13	.12	.03	.45
Oasis																			.02	.06	.02				.10
Ottumwa 1 WSW										.04	.05	.01	.01	.03	.06	.13	.06	.01							.40
Ottumwa AP CAA	6									*	*	*	.09	*	*	*	*	*	*	.31					.23
Remsen						.01	.04	.06	.04	.02	.01	.01	.01	.01	.02	.02	.07	.03							.14
Rockwell City																									.05
Saint Charles															.01	.01	.01	.01	.01	.01					.19
Sioux City WB Airport						.01	.02	.02	.01	.01	.05	.01	.04	.01	.01	.05	.02	.01							.31
Soldier		.01	.01	.04	.04	.02	.03	.02	.02	.04					.05	.02	.01				.01	.03	.21		.01
Tabor 6 NW		.03	.02	.01		.02	.05	.04	.02	.06	.01	.03	.02								.02				.08
Traer																									.34
Wallin 2 WNW				.04	.02	.04	.01			.01			.01						.03	.14	.06				.23
Washington																			.03	.03	.01				.09
Webster City																					.03	.02			.08
Wheatland																									.40
Woodbine 5 SE		.01	.02	.01	.03	.04	.03	.08	.04	.02	.06	.05	.01												
-9th-																									
Ames 3 SW				.01			.01																		.02
Atlantic AP CAA	//	*	*	*	*	*	*	.79																	.79
Burlington WB Airport	//							.03																	.03
Centerville		.01	.01	.02				.06	.09	.12	.03														.34
Council Bluffs 6 NE		.11	.13	.12	.10																				.46
Dakota City			.01																						.01
Davenport WB City		.0																							

HOURLY PRECIPITATION

IOWA
MAY 1949

Table 4-Continued

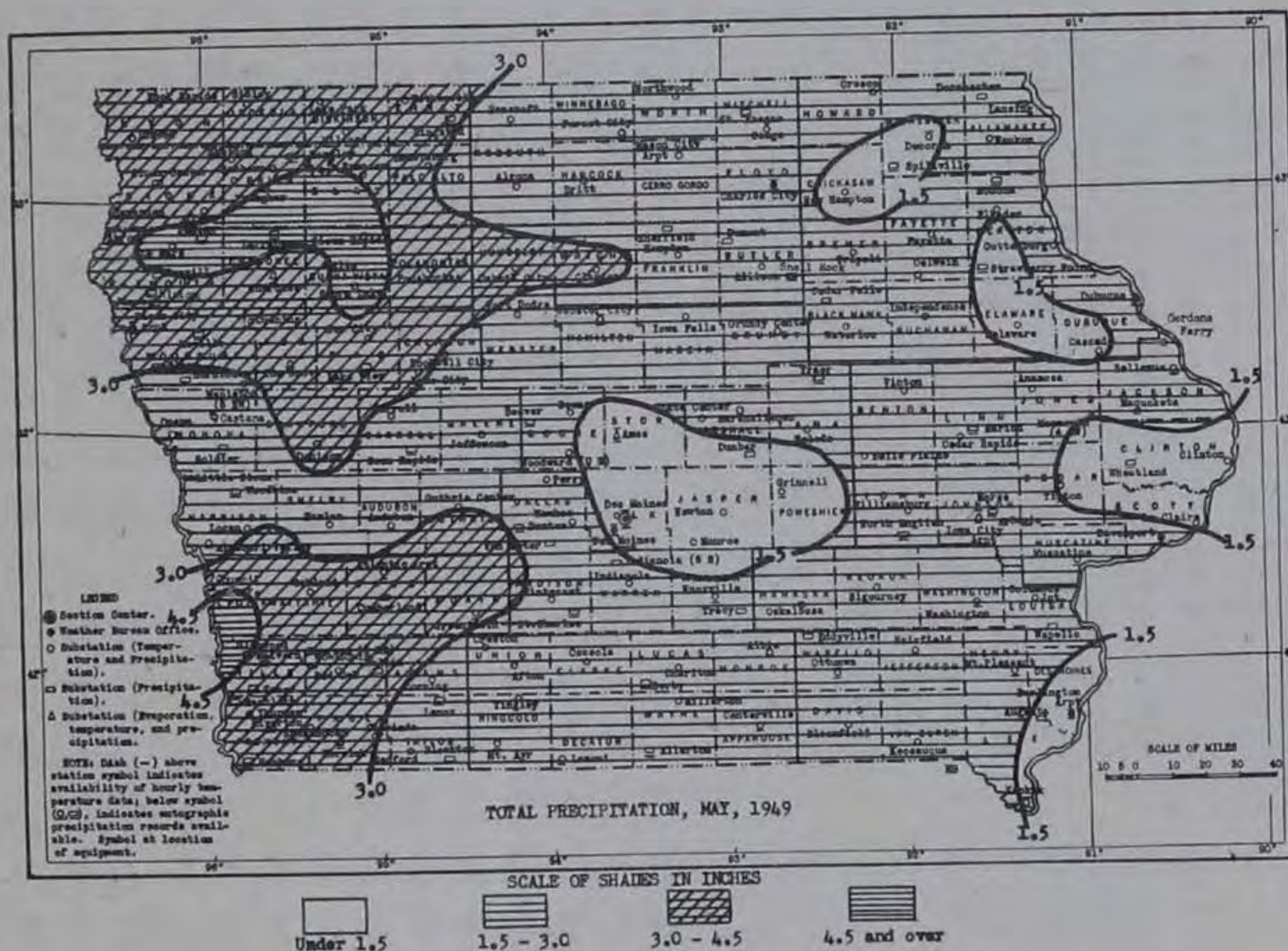
Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
Hinton 5 WNW																									.05	.05
Iowa Falls 1 N	.02												.01	.02			.01									.02
Lenox															.01											.01
Missouri Valley																										.25
Monona	.01		.22								.02				.01	.03	.01	.02	.02							.09
Mount Ayr 2 N																				.03	.03					.06
Mount Pleasant																				.09	.01		.01	.01		.12
Muscatine 6 N															*	*	*	*	*							
Ottumwa AP CAA	6																			.06						.02
Remsen																										.37
Shell Rock	.21	.14	.02																							.05
Spillville			.01	.04																						.05
Strawberry Point	.02	.01									.01	.01														.02
Tabor 6 NW																					.01	.01				.02
Wheatland																										
-16th-																										
Allerton											.05	.31	.06	.07	.01											.50
Ames 3 SW															*	*	*	*	*							.15
Atlantic AP CAA	//														*	*	*	*	*	.20						.20
Beaver 1 N																.09			.01	.03	.01					.36
Bellevue Lock & Dam 12	//																			.12	.06					.02
Burlington WB Airport																				.01	.01					.02
Cascade																										.05
Centerville													.01	.22	.06	.07										.37
Charles City																				.01						.01
Cherokee																				.03						.16
Coon Rapids	.01	.01				.03	.01	.01												.05		.02		.01	.03	.33
Council Bluffs 6 NE																										.38
Dakota City																										.25
Davenport WB City													.03	.01												.04
Derby													.02	.21	.09					.01	.05					.38
Des Moines WB Airport														.06	.14	.04	.28	.01								.53
Des Moines WB City														.03	.10	.06	.20	.01								.40
Dexter													.01	.10	.02	.18	.01									.32
Dubuque WB City																				.01			.01			.05
Forest City																				.05	.03	.02				
Greenfield													.01	.08	.13	.12	.01									.38
Grinnell																				.04	.24	.01				.29
Hamburg																										.21
Hartley 3 S						.02							.06							.01	.02	.01	.17	.03	.08	.32
Hinton 5 WNW					.01	.01	.09	.01					.02	.08						.51						.73
Hornick													.12	.04	.01											.36
Ida Grove 4 S														.10						.06	.01	.01	.01	.05	.22	.45
Iowa City AP CAA	6													*	*	*	*	*	*	.18						.45
Iowa City Ralston Creek 1													.10	.03	.01	.01	.05	.04	.03	.02	.15					.49
Iowa City Ralston Creek 2													.14	.01		.05	.10	.01		.02	.16					.42
Iowa City Ralston Creek 4														.15		.04	.02	.03		.03	.14		.01			.35
Iowa City Ralston Creek 5														.06		.03	.04	.03	.01	.03	.15	.01				.09
Iowa Falls 1 N																								.01		.09
Keokuk WB City																					.03	.05				.22
Knoxville 2 W																										.51
Lamoni			.11	.30																						.12
Larrabee																										.29
Lenox																				.02						.30
Marshalltown No. 2																										
Mason City AP CAA	6																									
Missouri Valley													.01	.25	.08	.04										.74
Monona													.05							.03						.16
Morse													.05	.01	.01	.01	.02	.02	.01	.01	.11	.03	.01			.30
Morse 1 NE													.12				.06	.10	.01	.01	.06	.04				.40
Morse 4 SSW													.10	.02		.05	.04	.01		.03	.16					.41
Mount Ayr 2 N	.01	.10	.10										.01	.06	.01	.02	.04	.06		.03	.16					.37
Mount Pleasant																										.07
Moville													*	*	*	*	*	*	*							.01
Muscatine No. 1													.01													.04
Muscatine 6 N																				.04	.02	.01				.07
Norwich SCS Exp. Farm 2 E													.07	.05	.12	.01	.01	.04								.25
Oasis																				.14						.34
Ottumwa 1 WSW																										.30
Ottumwa AP CAA	6																									
Remsen																				.30						.40
Rockwell City													.04	.01												.17
Saint Charles													.14	.42	.06	.01	.13	.03								.79
Sheffield																				.04	.01					.05
Shell Rock													.17							.01						.24
Sioux Center																				.01	.01	.03	.03			.15
Sioux City WB Airport																										.57
Soldier																										.47
Spencer 1 N	6																			.25	*	*	*	*		.03
Spillville																										.09
Strawberry Point																				.07	.02					.52
Tabor 6 NW													.01	.01	.15					.02	.31	.02				.30
Traer																				.06	.10	.13	.01			.28
Wallin 2 WNW													.01													.19
Washington																				.03	.02					.44
Webster City													.11	.01	.01											.44
Wheatland																				*	*	*	*	*		.61
Woodbine 5 SE						.07							.09	.01						.20	.01	.08	.02	.13		
-17th-																										
All																										

HOURLY PRECIPITATION

IOWA
MAY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Norwich SCS Exp. Farm 2 E				.05	.04																				.09
Shell Rock					.08	.01																			.19
Sioux City WB Airport	.19																								.08
Soldier	.06	.01	.01																						.06
Tabor 6 NW			.06																						
-29th-																									
Hartley 3 S																		.21	.01						.22
-30th-																									
Forest City															.05										.05
Lamoni					.02	.01																			.03
Lenox					.13	.01	.02																.05		.16
Monona																									.05
Mount Ayr 2 N					.01	.07	.02																		.10
Shell Rock																		.01	.04						.05
Spillville																							.29		.29
-31st-																									
Beaver 1 N																							.02	.42	.44
Cherokee																								.20	.20
Hartley 3 S																								.10	.10
Hornick																									.02
Iowa City Ralston Creek 2			.02																						.03
Iowa City Ralston Creek 3	.01	.02																							.03
Iowa City Ralston Creek 4	.02	.01																							.03
Iowa City Ralston Creek 5	.01	.02																				.09	.55	.64	
Larrabee																									.05
Monona				.02	.02	.01																		.34	.42
Moville																								.27	.30
Remsen																								.26	.26
Sioux Center																						.69	.11	.80	
Sioux City WB Airport																						*	*	*	*
Spencer 1 N	6																								
Spillville		.05	.01																						.06



See reference notes following Station Index

DAILY TEMPERATURES

IOWA
MAY 1949

Table 5-Continued

Station	Day of month																															Average				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Decorah 2 S	MAX MIN	69 53	74 45	88 44	87 68	88 64	79 58	65 37	66 35	66 47	61 38	76 38	79 39	86 48	70 45	65 52	75 47	76 59	81 56	70 47	59 44	54 45	73 49	65 40	63 33	71 37	69 30	67 38	70 30	77 48	81 46	84 58	72.7 45.7			
Delaware 2 W	MAX MIN	68 48	78 43	89 58	81 65	93 63	73 55	69 46	62 39	68 52	62 35	78 42	80 45	88 53	88 58	78 52	78 58	79 62	81 56	71 56	57 48	55 45	67 43	61 42	71 38	66 43	73 40	69 40	71 42	77 47	80 57	80 60	82 86	74.1 49.5		
Denison 2 S	MAX MIN	63 46	83 39	91 58	88 69	84 66	68 53	71 43	55 50	72 45	73 41	79 50	84 52	85 57	80 54	75 55	72 59	78 58	73 58	68 45	68 47	57 48	66 50	64 48	37 50	80 45	45 55	50 50	57 57	60 57	60 60	60 60	60 60	51.8		
Des Moines WB Airport	MAX MIN	61 46	81 45	88 60	86 69	88 65	66 57	71 54	58 51	70 51	68 45	77 43	85 55	85 56	83 60	79 59	70 65	78 64	80 64	65 51	65 50	63 53	70 52	73 50	65 45	78 49	73 48	82 54	79 53	82 57	84 63	86 64	75.0 54.3			
Des Moines WB City	MAX MIN	62 49	80 47	88 61	87 70	89 66	67 58	73 53	57 53	71 51	69 46	77 46	84 56	85 60	83 60	79 59	71 59	78 64	80 65	65 51	65 50	63 53	70 52	73 50	65 45	78 49	73 48	82 54	79 53	82 57	84 65	86 63	75.6 55.0			
Dubuque L & D 11	MAX MIN	67 56	72 47	84 55	84 61	88 67	78 61	66 47	62 44	63 55	59 37	74 41	81 51	85 55	80 51	72 58	78 62	80 65	71 44	69 44	58 43	55 43	68 48	68 50	64 46	72 46	69 46	67 48	66 45	71 48	76 48	83 54	85 64	70.5 51.4		
Dubuque WB City	MAX MIN	68 51	78 48	88 60	88 71	92 69	74 59	68 50	64 45	66 48	62 39	72 42	79 52	86 58	70 57	71 53	73 60	82 64	80 67	71 46	58 47	57 46	73 49	80 50	61 47	72 48	69 46	67 48	66 45	71 45	76 50	82 56	85 65	73.4 52.8		
Elkader	MAX MIN	70 43	68 46	88 46	87 68	92 63	83 62	83 43	66 38	69 50	67 38	76 36	80 43	88 43	89 50	68 51	73 51	79 59	82 62	72 43	60 46	58 45	72 48	69 44	63 40	72 40	73 38	82 42	79 36	77 45	81 45	87 45	87 87	74.5 47.1		
Emetsburg	MAX MIN	60 50	82 44	91 56	88 68	87 65	72 54	72 46	67 50	73 28	72 39	81 48	79 51	87 46	79 50	76 53	70 55	77 59	77 57	65 43	60 47	55 50	88 53	63 38	61 42	69 45	70 50	73 46	79 50	80 46	81 59	87 60	73.9 50.2			
Estherville	MAX MIN	68 50	81 43	92 59	89 69	83 63	65 54	72 46	68 49	71 50	72 38	80 47	77 47	87 59	75 50	78 50	75 54	75 59	78 56	60 43	59 46	56 49	69 50	62 49	63 35	70 40	71 50	77 43	79 53	81 59	87 61	87 61	76.6 50.7			
Fairfield	MAX MIN	71 52	80 48	87 57	89 66	90 68	76 61	71 56	64 45	65 53	66 41	75 40	83 54	84 52	88 59	78 60	72 60	79 63	78 64	74 55	59 48	51 51	72 51	78 44	63 43	78 43	72 45	70 49	70 49	72 50	76 46	81 51	84 58	73.5 48.4		
Fayette	MAX MIN	67 53	76 44	90 51	86 67	90 65	78 60	70 41	65 46	72 50	65 38	77 40	80 42	87 41	88 48	68 52	72 51	78 62	80 48	68 45	57 47	54 49	73 44	69 44	63 39	72 45	70 35	70 42	74 36	81 46	79 51	86 58	73.9 48.4			
Forest City	MAX MIN																																			
Fort Dodge	MAX MIN	68 48	83 45	89 59	86 70	87 67	64 56	72 44	61 51	74 50	71 40	80 48	84 49	87 56	76 53	74 57	73 57	77 62	75 58	55 45	62 48	54 50	69 50	63 50	63 39	71 49	72 43	75 51	76 46	81 53	81 62	87 60	73.9 52.1			
Glenwood 2 E	MAX MIN	65 49	83 38	90 61	87 70	87 69	76 58	70 50	67 48	71 48	71 45	76 48	81 52	83 52	82 57	78 60	75 60	78 60	78 60	74 50	69 51	69 56	71 54	69 40	84 51	79 49	75 57	83 57	80 61	78 63	82 64	86 84	76.7 54.5			
Greenfield	MAX MIN	64 50	79 39	84 58	86 65	80 72	68 59	63 49	68 49	66 45	74 45	81 52	83 53	80 59	72 56	70 60	76 62	77 63	70 50	66 44	69 52	69 50	72 53	62 41	62 46	77 49	72 54	80 52	79 55	83 60	80 60	84 86	74.0 53.2			
Grinnell	MAX MIN	67 48	79 42	89 57	85 67	89 66	80 58	73 54	62 52	70 50	68 41	76 42	84 51	85 54	85 54	78 56	71 61	74 63	78 52	75 45	60 50	58 50	78 49	75 40	64 48	77 43	73 48	79 47	75 50	79 56	81 60	86 60	75.9 51.9			
Grundy Center 4 NE	MAX MIN	71 49	80 43	91 54	87 65	89 64	82 58	72 45	70 45	73 47	69 39	79 41	82 50	88 54	75 52	73 52	72 49	76 61	78 63	72 47	61 44	59 49	71 50	68 49	62 39	74 44	71 41	75 48	72 44	74 46	78 48	85 59	75.1 49.6			
Guthrie Center	MAX MIN	64 45	80 45	85 62	84 69	86 66	70 55	69 47	63 50	72 49	69 45	76 47	82 55	83 55	81 57	75 55	67 61	76 63	78 64	72 48	65 48	63 50	67 50	67 41	62 48	75 48	72 54	78 50	77 54	80 62	85 61	85 61	74.2 53.5			
Guttenberg L & D 10	MAX MIN	71 55	77 47	89 55	88 54	92 68	85 60	69 48	66 44	68 53	65 38	75 46	79 50	86 55	69 54	68 52	73 55	80 60	84 64	75 45	62 44	60 45	72 47	69 44	63 46	70 46	69 43	70 46	75 43	74 46	80 49	85 52	74.1 50.6			
Hampton	MAX MIN	71 42	79 44	90 60	84 68	82 64	80 58	70 44	66 46	71 51	77 41	78 46	79 50	85 59	73 53	70 54	73 53	75 60	76 64	73 46	61 46	60 50	68 50	67 51	61 39	72 49	68 41	71 53	74 44	80 51	78 56	85 59	74.1 51.3			
Harlan	MAX MIN	69 50	82 38	89 56	87 68	85 63	72 56	68 50	65 52	75 50	71 47	77 46	83 53	83 53	81 58	74 56	72 62	76 60	77 59	75 49	62 49	67 52	64 51	65 41	77 47	75 49	80 57	75 55	78 58	82 63	81 63	85 63	75.5 53.6			
Hewarden	MAX MIN	71 48	83 40	93 60	92 70	82 60	69 52	71 44	63 51	74 50	75 40	84 52	83 49	87 55	80 50	79 60	74 56	76 59	71 58	58 44	43 50	50 48	48 36	52 48	42 50	52 42	50 52	80 45	80 51	81 57	82 61	86 62	75.8 52.5			
Ida Grove 4 S	MAX MIN	71 48	91 40	92 60	88 70	84 60	64 52	73 44	65 51	75 50	74 40	84 54	83 49	87 55	80 54	79 56	74 61	76 59	74 58	62 43	69 50	61 48	68 52	65 37	63 50	76 45	73 45	70 52	71 45	74 51	78 57	82 61	86 61	75.4 49.2		
Independence 2 W	MAX MIN	75 52	77 44	90 49	86 62	90 60	84 59	70 49	67 43	72 51	67 39	74 36	80 49	85 52	82 53	73 51	74 55	80 59	79 60	75 49	69 43	57 47	71 47	70 48	61 41	73 45	70 39	71 47	74 42	78 45	83 54	85 62	87 61	77.8 54.9		
Indianola	MAX MIN	65 51	82 46	89 61	88 74	90 76	82 64	72 54	66 51	70 49	69 40	79 44	86 54	88 57	85 62	81 58	71 57	79 64	78 64	77 50	66 50	62 52	69 51	69 45	59 32	64 50	72 45	72 45	75 49	79 50	80 60	84 61	74.2 50.2			
Inwood 2 W	MAX MIN	68 46	82 38	92 56	89 67	80 58	71 49	70 44	63 50	74 48	73 41	84 52	81 49	86 55	74 51	76 55	73 55	75 58	71 55	55 40	68 40	62 49	62 47	74 45	62 41	74 45	70 45	74 43	74 46	78 48	82 54	85 60	75.3 52.3			
Iowa City	MAX MIN	69 53	79 44	88 53	89 67	91 84	80 60	70 54	64 45	70 54	65 42	74 39	83 55	86 55	84 53	76 51	70 59	80 63	79 63	71 48	59 46	61 49	70 51	75 45	62 43	75 41	71 43	76 46	73 43	79 48	83 53	87 62	75.7 50.5			
Iowa City AP CAA	MAX MIN	71 46	80 42	89 48	87 63	92 60	73 54	73 44	66 52	72 42	67 37	74 54	83 53	86 52	84 52	77 58	71 61	81 63	80 48	71 46	59 49	61 49	70 51	75 47	62 43	75 41	71 43	76 46	73 43	78 48	83 53	84 62	73.2 50.7			
Iowa Falls 1 W	MAX MIN	64 47	81 44	90 53	86 68	87 63	75 57	70 48	58 43	71 50	67 40	78 43	80 48	86 54	85 52	75 53	76 60	70 62	58 46	62 44	49 53	50 39	66 50	66 49	63 47	76 45	72 45	75 49	78 44	82 50	83 55	85 59	77.8 54.9			
Jefferson	MAX MIN	68 47	80 44	88 56	85 69	85 63	65 55	69 46	62 50	71 48	67 43	77 46	81 50	84 57	79 55	73 55	69 80	78 82	74 64	68 46	57 49	51 50	68 51	68 49	60 39	70 49	75 44	72 50	78 44	80 50	81 55	84 61	76.7 57.2			
Keokuk L & D 19	MAX MIN	71 57	78 52	85 59	87 69	88 68	82 71	72 57	68 52	64 54	65 43	71 38	81 54	82 58																						

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Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Mapleton 5 NW	MAX MIN	63 48	84 42	93 60	90 71	85 61	82 53	71 46	60 51	71 48	76 44	81 49	85 51	83 56	73 58	75 55	73 63	76 57	76 55	56 46	69 38	61 50	71 51	60 46	66 37	74 51	76 45	78 52	80 54	79 59	81 62	86 63	74.6 52.3	
Maquoketa 5 E	MAX MIN	68 52	76 45	87 53	87 66	90 66	81 62	69 47	65 39	67 52	64 37	70 36	84 52	86 54	76 55	72 47	72 58	81 61	80 63	75 47	57 44	57 45	74 49	75 48	67 43	75 44	70 44	73 46	70 40	75 44	80 50	85 62	74.5 50.0	
Marshalltown No. 1	MAX MIN	79 56	80 45	91 54	87 67	90 63	79 58	73 52	61 43	74 50	69 40	79 40	82 49	87 57	84 51	76 54	73 55	76 61	78 63	70 49	62 46	55 50	71 51	72 48	63 42	74 43	71 40	77 45	76 45	80 51	81 57	81 60	75.8 51.1	
Mason City 3 N	MAX MIN	66 47	78 44	90 55	85 70	88 63	70 55	70 41	64 43	72 50	68 40	77 46	79 46	87 59	71 50	72 54	74 60	74 60	75 57	69 45	60 45	56 49	68 49	61 49	62 36	70 49	71 39	70 49	73 40	79 51	77 54	85 63	72.9 50.0	
Mason City AP CAA	MAX MIN	64 44	78 44	91 54	85 68	89 60	64 47	69 40	63 45	74 47	67 39	76 42	78 47	87 59	71 50	72 52	74 59	73 53	75 45	55 45	59 49	53 49	67 49	61 42	62 35	70 48	69 38	71 47	73 38	80 52	77 53	85 59	72.0 48.5	
Milford 4 NW	MAX MIN	69 49	81 39	92 58	90 68	80 61	65 50	68 46	63 53	67 49	70 41	80 45	77 50	85 54	74 52	72 51	70 57	75 52	60 41	60 47	60 47	60 49	66 49	69 50	61 49	62 49	70 49	71 39	70 49	73 40	79 51	81 57	84 60	72.4 50.9
Millerton	MAX MIN	64 48	79 43	86 49	85 67	86 66	78 57	68 53	67 50	65 50	73 42	80 41	83 53	81 55	76 60	72 58	74 63	79 64	76 53	65 44	74 51	70 63	74 53	63 44	76 44	67 48	81 48	75 51	78 53	81 54	82 61	87 67	75.1 53.9	
Missouri Valley	MAX MIN	66 50	84 43	92 64	88 72	85 70	70 55	72 47	64 52	75 48	73 49	81 52	85 58	84 60	78 56	84 62	78 61	80 61	77 50	68 52	72 54	86 54	72 54	67 51	68 39	83 53	77 50	85 56	84 56	81 50	84 63	85 64	77.6 55.2	
Monmouth 4 SW	MAX MIN	62 49	75 42	88 51	88 63	92 64	82 58	69 46	65 38	73 50	65 36	73 35	79 48	86 50	76 53	71 47	72 56	82 59	80 61	75 45	58 42	57 45	71 47	72 46	61 42	73 40	68 40	71 42	72 40	76 46	83 47	87 58	74.2 48.0	
Mount Ayr 2 N	MAX MIN	65 52	79 42	84 60	85 70	87 69	80 57	72 62	65 53	68 50	68 45	75 45	82 51	83 55	82 56	73 57	75 60	76 65	80 64	78 59	69 51	69 55	71 52	75 58	69 43	79 47	74 50	85 66	77 55	79 60	84 62	84 62	76.3 55.8	
Mount Pleasant	MAX MIN	71 56	84 45	88 56	89 65	90 67	79 60	74 56	67 44	63 51	68 41	68 39	75 54	82 55	84 58	78 54	80 60	81 62	74 65	59 48	76 50	76 51	78 52	68 47	78 47	68 47	74 47	80 48	80 48	80 50	84 56	87 60	77.6 53.1	
Muscataine No. 1	MAX MIN	72 55	81 46	88 58	88 68	93 70	82 63	75 54	75 46	67 53	68 40	75 41	84 54	87 57	86 55	78 53	76 59	82 62	83 65	76 52	60 46	69 50	74 51	77 49	67 47	77 44	73 48	75 47	75 46	80 50	84 55	88 62	77.9 53.1	
New Hampton	MAX MIN	65 43	77 41	89 52	85 63	79 55	75 52	70 38	66 41	73 47	65 35	76 38	78 43	87 48	67 47	66 50	72 57	75 55	78 43	67 55	59 40	54 44	69 46	64 44	63 32	72 42	70 34	71 43	72 37	77 44	79 47	82 55	72.3 45.4	
Newton	MAX MIN	66 48	81 43	88 60	86 70	89 68	81 59	73 54	66 51	70 50	67 43	77 44	84 54	86 58	85 56	77 59	68 64	74 66	76 53	75 48	62 52	57 73	73 53	64 43	78 43	74 45	80 53	75 51	80 54	83 59	85 63	75.9 54.1		
Northwood	MAX MIN	73 52	78 44	91 50	84 66	88 63	76 56	71 42	67 46	72 49	67 40	81 42	81 50	88 57	72 48	75 53	73 58	76 56	75 44	60 49	58 48	69 48	65 48	63 35	69 47	70 39	71 46	73 50	80 53	81 59	85 59	74.3 49.3		
Norwich 2 E SCS Farm	MAX MIN	62 47	80 41	85 56	85 68	86 73	74 51	64 49	67 45	70 45	75 44	80 52	83 52	82 54	78 80	79 80	81 61	72 51	70 51	67 51	67 54	70 52	71 54	63 42	79 46	74 49	81 55	81 55	80 59	81 62	85 61	75.9 53.3		
Oakland 2 E	MAX MIN	63 49	82 39	89 53	87 68	88 68	74 55	69 49	67 51	69 47	69 46	72 46	82 50	83 52	82 55	75 56	73 61	77 59	75 60	69 47	66 51	72 52	69 51	63 39	78 47	75 50	81 53	79 54	79 57	83 62	84 62	75.7 53.0		
Oelwein	MAX MIN	65 50	76 46	90 56	88 68	92 67	80 60	71 45	63 45	71 52	65 45	75 42	80 50	88 65	69 50	70 53	73 58	78 63	80 63	70 50	60 45	55 47	70 49	62 46	62 40	71 40	68 40	71 42	74 48	77 53	81 62	84 62	73.5 51.2	
Osawa	MAX MIN	63 48	85 39	95 57	91 71	86 63	68 53	74 44	60 54	74 46	76 41	83 48	87 53	88 54	82 55	80 51	77 61	79 58	77 57	65 47	73 44	65 50	72 50	62 47	68 36	79 50	79 47	82 52	83 52	84 59	85 61	87 61	77.7 51.9	
Osage	MAX MIN	70 54	77 44	90 54	82 68	87 64	81 57	67 42	64 43	70 49	65 39	78 42	80 50	87 56	69 49	71 52	74 52	75 59	77 55	74 45	58 43	55 48	68 48	68 47	62 35	69 46	69 40	68 47	71 40	78 50	79 53	83 58	73.1 49.3	
Osceola	MAX MIN	66 50	82 43	88 57	87 69	88 67	79 57	72 55	67 51	68 50	78 43	82 44	84 54	84 60	77 56	71 59	77 63	80 64	78 50	67 50	73 53	72 54	76 43	65 47	79 48	76 44	84 44	79 49	82 52	83 53	85 60	81 61	77.0 54.1	
Oskaloosa	MAX MIN	66 52	82 46	88 57	87 69	89 67	79 55	74 51	69 50	74 43	64 44	71 42	83 45	86 54	80 57	73 60	76 65	81 66	76 54	62 46	69 52	83 53	73 52	76 46	65 44	79 44	75 49	79 52	83 53	85 59	85 61	77.0 53.9		
Ottumwa 1 WSW	MAX MIN	68 57	78 48	88 52	88 68	90 66	84 61	74 56	66 51	65 53	64 44	76 40	85 52	85 54	86 56	80 57	77 61	80 62	78 64	60 49	76 54	74 54	79 52	68 47	80 41	75 45	76 52	80 53	84 58	86 62	86 62	77.4 54.2		
Ottumwa AP CAA	MAX MIN	65 49	80 48	90 58	87 68	90 68	73 60	71 55	57 49	67 52	66 43	74 44	83 57	84 59	83 62	75 61	70 61	78 64	78 65	60 48	71 52	72 51	77 52	63 47	78 46	72 47	77 54	74 51	78 52	82 60	84 62	75.2 54.7		
Perry 2 SE	MAX MIN	65 48	84 42	87 53	85 61	88 63	67 56	71 47	67 50	71 49	70 42	79 44	84 49	84 53	80 55	74 54	69 56	77 59	75 64	71 47	63 49	59 51	71 50	68 41	66 48	77 50	73 48	80 50	77 54	81 62	86 60	75.1 51.7		
Pocahontas 2 SE	MAX MIN	69 48	82 42	90 70	88 68	87 65	76 58	72 48	65 51	72 45	73 38	80 48	77 46	83 59	76 51	77 57	73 56	76 55	70 43	62 47	58 44	69 50	63 47	61 39	71 50	71 55	75 50	71 48	82 60	80 59	83 60	74.3 52.5		
Pringhar	MAX MIN	77 43	81 37	92 62	89 67	92 62	67 50	69 46	67 51	70 49	71 41	81 49	82 53	86 58	79 51	78 55	74 62	76 68	76 60	67 47	66 51	66 48	68 57	61 48	70 34	72 49	84 44	89 51	80 48	89 63	80 59	85 60	76.2 52.4	
Red Oak	MAX MIN	64 45	79 37	85 59	85 69	85 67	70 56	70 48	61 50	70 49	71 42	75 44	80 52	81 56	74 53	76 55	78 62	78 62	71 51	72 42	69 53	69 53	71 42	64 49	74 49	83 56	79 56	79 60	82 63	85 63	85 63	75.5 53.8		
Rock Rapids	MAX MIN	70 49	81 39	92 56	88 67	79 63	65 52	65 44	68 42	67 41	83 41	83 49	86 55	76 53	78 55	70 58	76 60	70 51	53 42	60 43	53 50	61 50	67 48	63 35	63 49	68 47	71 51	72 50	80 59	79 62	80 64	87 64	73.6 51.3	
Rockwell City	MAX MIN	69 47	82 41	89 53	88 69	86 66	69 55	72 45	66 51	73 50	72 41	81 52	85 50	87 56	80 53	75 56	70 60	76 60	75 58	67 47	66 50	61 49	69 50	63 38	73 49	72 45	77 49	80 48	83 54	83 58	89 59	75.5 51.7		
Sac City	MAX MIN	65 48	83 41	90 62	88 70	84 65	76 55	59 46	72 53	75 49	80 42	83 50	86 57	80 55	79 58	69 62	78 59	74 45	60 49	64 50	60 51	64 49	63 40	61 51	64 40	74 46	79 51	79 51	80 51	84 51	73.9 52.2			
Sauborn	MAX MIN	70 44	80 36	91 56	89 65	81 57	66 48	69 41	60 49	72 45	71 37	78 47	80 46	84 53	75																			

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Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Spencer 1 W	MAX	56	81	92	90	80	65	70	63	71	73	80	80	86	74	75	71	76	74	53	63	55	68	58	62	68	72	72	79	80	80	86	72.7
	MIN	46	42	61	69	57	47	43	52	49	39	50	47	56	49	52	56	56	47	42	42	49	49	43	34	49	41	49	47	57	61	60	49.7
State Center	MAX	68	78	87	87	88	79	73	68	73	69	74	83	85	83	77	74	75	80	73	68	65	70	66	61	69	69	78	78	80	81	87	75.7
	MIN	49	45	60	70	69	59	50	53	53	50	46	55	57	57	58	59	63	64	49	49	50	50	52	42	49	49	53	50	54	59	65	54.5
Storm Lake 2 E	MAX	72	79	90	88	83	65	72	65	72	72	77	81	83	77	73	70	75	74	62	64	59	67	64	60	70	70	74	77	79	85	73.5	
	MIN	47	45	61	68	64	53	43	52	50	39	50	50	59	51	55	60	58	57	42	47	49	51	48	37	50	43	50	49	55	58	59	51.6
Tingley	MAX	65	83	85	85	88	80	70	61	68	75	75	82	83	81	79	75	78	80	74	69	70	72	76	65	80	75	82	80	82	85	76.9	
	MIN	50	40	56	67	65	50	50	49	48	45	45	52	52	56	55	59	61	60	50	49	53	50	50	40	43	48	52	56	53	60	52.1	
Tipton	MAX	71	78	90	88	92	80	71	64	69	65	73	82	86	79	74	72	82	79	74	58	60	72	76	62	73	68	74	73	78	83	86	75.2
	MIN	54	45	67	66	68	60	48	38	52	38	38	49	66	56	48	58	58	63	50	42	43	56	41	42	42	42	48	42	46	52	60	50.9
Toledo	MAX	70	79	91	85	89	81	71	65	70	67	77	83	86	82	75	72	75	76	75	59	56	70	73	62	73	70	72	73	78	80	85	74.8
	MIN	48	44	57	68	65	59	53	45	50	40	43	52	55	53	52	56	61	54	51	45	49	50	50	42	45	42	48	46	50	56	62	51.3
Tripoli	MAX	71	77	90	86	88	85	72	68	73	66	76	80	87	81	69	76	77	80	73	61	59	72	70	64	74	70	71	73	77	81	84	75.2
	MIN	54	45	55	67	65	59	46	43	51	38	41	50	56	53	54	55	61	62	48	45	49	50	50	38	42	40	49	41	48	53	60	50.6
Vinton	MAX	72	80	91	88	92	72	72	62	67	67	78	80	87	82	76	74	80	78	74	64	68	68	72	67	75	70	74	75	78	82	86	75.8
	MIN	54	50	53	67	60	60	54	41	41	41	41	45	55	51	52	57	57	64	52	50	54	54	48	42	44	39	46	41	40	54	61	50.6
Washington	MAX	70	81	89	88	91	79	73	63	68	67	76	83	87	86	79	70	80	80	74	59	68	72	77	65	78	72	76	76	80	84	88	76.7
	MIN	54	46	56	67	70	62	55	45	53	41	39	51	57	58	55	59	61	65	54	47	50	52	50	45	44	46	50	46	49	50	69	53.1
Waterloo	MAX	70	80	90	87	90	82	69	62	70	67	77	79	86	72	72	73	72	79	69	59	57	70	63	61	73	68	71	72	77	79	83	73.5
	MIN	49	44	55	68	66	60	47	42	52	41	43	48	58	51	53	58	62	64	49	45	49	50	50	42	47	41	48	45	49	56	62	51.4
Waukeo	MAX	70	72	89	86	90	80	72	70	71	69	77	84	88	83	79	71	78	78	75	63	63	70	73	64	78	73	82	78	82	86	76.6	
	MIN	50	50	61	71	69	58	53	53	51	46	44	56	57	60	60	59	64	65	51	50	53	52	55	45	48	49	54	53	57	65	63	55.5
Waukon	MAX	72	74	86	85	88	72	67	66	66	61	75	78	85	68	65	72	73	78	68	57	54	70	64	60	69	68	65	69	74	79	81	71.3
	MIN	49	40	47	65	62	54	40	41	48	33	36	49	50	46	47	49	57	57	42	40	40	45	44	34	40	37	43	39	43	46	55	45.7
Webster City	MAX	70	82	90	85	88	75	72	65	74	70	82	79	87	76	72	72	75	76	73	62	57	69	64	63	72	71	76	77	81	81	87	74.9
	MIN	48	44	54	69	64	57	43	49	49	39	43	47	52	53	58	57	61	62	43	43	50	50	51	39	46	39	48	47	55	59	61	51.0
Williamsburg	MAX	68	80	88	87	92	80	70	62	65	70	75	82	85	84	75	70	78	80	74	56	60	71	72	61	74	69	71	71	77	80	83	74.5
	MIN	52	43	54	66	67	60	55	45	42	43	40	55	56	55	52	58	67	67	55	40	50	50	52	44	45	46	50	47	50	56	61	52.4
Winterset	MAX	74	82	87	86	88	84	70	69	69	69	78	80	83	81	80	72	78	80	79	65	67	70	72	65	78	75	80	77	80	82	84	76.8
	MIN	50	45	60	60	62	56	51	52	50	45	45	55	56	60	58	60	63	64	50	50	54	51	54	42	48	46	55	54	55	62	63	54.4
Woodward 7 W	MAX	63	82	88	85	88	77	72	65	73	70	79	82	85	80	75	70	76	75	74	64	57	68	68	64	74	70	78	76	78	80	85	74.9
	MIN	48	42	60	69	67	56	48	50	50	45	47	53	54	57	58	59	63	64	43	49	51	51	55	41	48	45	53	51	54	63	62	53.4

Table 6 for this issue may be found on page 81

SOIL TEMPERATURES AT AMES, IOWA MAY, 1949

Temperature	4 feet above ground	Depth (inches)						
		1	2 1/4	6	12	24	48	72
Average 7 a.m.	57.9	58.8	58.1	59.6	61.1	56.4		
Average 12 noon	69.9	72.5	72.4	65.1	60.6	56.7		
Average 7 p.m.	64.7	68.5	68.7	69.4	63.0	56.5	50.5	48.1
Highest	89	83	84	75	70	62	54	51
Date	3	12+	13	5+	31	31	30+	29+
Lowest	40	48	48	48	53	51	46	44
Date	11	2	2	2	2	2	1+	1
Number of days with temperature								
0° or lower	0	0	0	0	0	0	0	0
24° or lower	0	0	0	0	0	0	0	0
32° or lower	0	0	0	0	0	0	0	0
40° or higher	31	31	31	31	31	31	31	31
50° or higher	31	31	31	31	31	31	22	10
60° or higher	30	29	31	30	27	4	0	0
90° or higher	0	0	0	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°.
Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

STATION INDEX

1964
MAY 1964

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9	41 02	94 12	1200	6P	6P	Dave Henderson	2 3 5	Maquoketa 5 mi. E	6131	Jackson	12	43 09	96 33		5P	5P	Otto J. Bistinger	2 3 5
Akron	0088	Plymouth	1	42 49	96 33	1153	6P	6P	Orlan C. Moore	3	Marion 4 mi. NE	5163	Linn	4	43 03	91 33		5P	5P	Hybrid Seed Corn Co	2 3 4
Albia	0112	Monroe	6	41 02	92 48	948	6P	7A	Arthur L. Freed	2 3 5	Marshalltown No. 1	5193	Marshall	10	43 03	92 54	886	6P	6P	George C. Johnson	2 3 5
Algona	0133	Kossuth	6	43 04	94 14	1200	7P	7P	Harry B. Wolfe	2 3 5	Marshalltown No. 2	5198	Marshall	10	43 04	92 56		6P	6P	Raymond H. Hoops	2 3 5
Allerton	0149	Wayne	9	40 42	93 23				Herman E. Keddy	2 3 4	Masson City 3 mi. N	5230	Cerro Gordo	4	43 11	93 12	1148	6P	6P	Am. Cry. Sugar Co.	2 3 5
Allison	0157	Butler	4	42 48	92 47	1060	6P	7P	D. Tellinghuisen	2 3 5	Masson City AP CAA	5235	Cerro Gordo	4	43 09	93 20	1194	MID	MID	Airways Com. Sta.	2 3 4 5
Alta	0173	Buena Vista	20	42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Merrill 5 mi. W	5418	Plymouth	7	42 43	96 20		6A	6A	Apt. Husted	3
Alton	0181	Sioux	7	42 59	96 01	1305	7P	7P	W. S. Stagle	2 3 5	Wilford 4 mi. NW	5493	Bickinton	18	43 23	95 11	1402	7P	7P	A. C. McKinstry	2 3 5
Ames 3 mi. SW	0208	Story	21	42 00	93 39	1004	7P	7P	Charles N. Brown	2 3 4 5 6	Millerton	5517	Wayne	5	40 50	93 18	1070	6P	6P	J. C. Davis	2 3 5
Ansonia 1 mi. NW	0213	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Missouri Valley	5584	Harrison	3	41 33	95 54	1068	7P	7P	S. William Sorenson	2 3 4 5
Atlantic 1 mi. E	0384	Cass	16	41 24	94 59	1110	6P	7A	Roy L. Fancolly	2 3 5	Moumouth 4 mi. SW	5622	Jones	12	42 03	90 55	870	7P	7P	Arnold Bissinger	2 3 5
Atlantic AP CAA	0389	Cass	16	41 24	95 02	1132	MID	MID	Airways Com. Sta.	2 3 4 5	Nonona	5630	Clayton	14	43 03	91 22		6P	6P	Mrs. Anna M. Welter	2 3 4
Audubon 2 mi. S	0385	Audubon	18	41 42	94 57	1297	6P	6P	Ralph H. Eibby	2 3 5	Nonroe	5638	Jasper	6	41 31	93 06	922	6P	6P	J. A. Dibel	2 3 5
Augusta	0389	Des Moines	21	40 48	91 17	522	5A	5A	Glen Wood	3	Nonse	5732	Johnson	10	41 44	91 26		6P	6P	Margaret R. Miller	3 4
Bancroft	0483	Kossuth	6	43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Nonse 1 mi. NE	5737	Johnson	10	41 48	91 25		6P	6P	Lawrence J. Hall	3 4
Bartlett 3 mi. E	0483	Fremont	26	40 53	95 44		6P	6P	R. L. Kilpatrick	3	Nonse 4 mi. SW	5742	Johnson	10	41 41	91 28		6P	6P	L. J. Fuhrmeister	2 3 4
Beaver	0549	Boone	8	42 03	94 08		6P	6P	Wilfred K. Hunter	2 3 4	Mount Ayr 2 mi. N	5769	Ringgold	9	40 44	94 14	1214	6P	6P	H. L. Corralison	2 3 4 5
Bedford 1 mi. W	0578	Taylor	23	40 41	94 44	1215	6P	6P	H. J. Chabers	2 3 5	Mount Pleasant	5796	Henry	21	40 57	91 32	730	6P	6P	A. W. Patterson	2 3 4 5
Belle Plaine	0600	Benton	10	41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Noville	5823	Woodbury	11	42 29	96 04		6P	6P	Elmer W. Widmark	2 3 4 5
Bellevue Lock & Dam 12	0608	Jackson	14	43 18	90 25	803	7P	7A	U. S. Engineers	2 3 4 5	Muscataine No. 1	5837	Muscataine	14	41 26	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5
Blockton 3 mi. E	0745	Taylor	19	40 38	94 29	1081	5P	5P	Glean A. Cobb	3	Muscataine No. 2	5842	Muscataine	14	41 25	91 03	548	7A	7A	Clifford McKee	3
Bloomfield 2 mi. N	0753	Davis	8	40 47	92 26	820	7P	7P	Mrs. Leo Foster	2 3 5	Muscataine 8 mi. NW	5852	Muscataine	14	41 29	91 07		7P	7P	Closed	2-23-48
Boone	0807	Boone	8	43 04	93 53	1126	6P	6P	E. G. Kolb	2 3 5	New Hampton	5952	Chickasaw	27	43 04	92 19	1156	7P	7P	Loddy Hrdlicka	2 3 5
Britt	0923	Black Hawk	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Newton	5992	Jasper	21	41 42	93 04	950	7P	7P	Al A. Scheel	2 3 5
Burlington WB Airport	1063	Des Moines	14	40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5	North English	6076	Iowa	4	41 20	92 05	789			Ernest E. Andrews	3 4
Carroll	1233	Carroll	20	42 04	94 52	1280	7P	7A	Res H. Schenkelberg	2 3 5	Northwood	6103	North	4	43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5
Cascade	1257	Dubuque	12	42 18	91 09	850	7P	7A	C. J. Wolers	2 3 4 5	Horwich SCS Exp Farm 2E	6119	Page	22	40 45	95 12	1135	7P	7P	Soil Cons. Service	2 3 4 5 6
Castana 4 mi. E	1377	Monroe	11	42 04	93 49		7P	7P	Bob Zimmerman	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16	41 13	95 23	1150	6P	6P	Ward D. Heinke	2 3 5
Cedar Falls	1390	Black Hawk	4	43 32	92 37	875	7P	7P	E. J. Cable	3	Osaka	6186	Johnson	10	41 43	91 24		6P	6P	K. Kadara	2 3 4
Cedar Rapids No. 1	1319	Linn	4	41 59	91 39	813	7P	7A	John T. Wurster	2 3 5	Oelwein	6200	Fayette	27	42 40	91 55	1036	6P	6P	Milo W. Frase	2 3 5
Cedar Rapids No. 2	1324	Linn	4	41 59	91 40		7A	7A	C. M. Simon	3	Onawa	6243	Nonona	15	42 02	96 08	1050	7P	7A	W. J. Oliver	2 3 5
Centerville	1354	Appanoose	5	40 43	92 53	1013	7P	7P	Earl McIntire	2 3 4 5	Onaga	6305	Mitchell	8	43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5
Chariton 3 mi. E	1394	Lucas	5	41 00	93 15	940	7P	7P	Ellie Shaw	2 3 5	Osceola	6316	Clarke	8	41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5
Charles City	1402	Floyd	4	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Oskaola	6327	Wahaska	6	41 17	92 40	813	6P	6P	Cliff. Bergstromer	2 3 5
Cherokee	1442	Cherokee	11	42 45	95 33	1398	7P	7P	J. Earl Wirth	2 3 4 5 6	Ottumwa 1 mi. SW	6366	Wapello	6	41 01	92 28	649	7P	7P	C. L. Wikesh	2 3 4 5
Clarinda	1533	Page	17	40 44	95 01	1094	7P	7A	Walter L. Weekland	2 3 5	Ottumwa AP CAA	6389	Wapello	6	41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5
Clarion	1541	Wright	2	42 44	93 44	1170	7P	7P	George Reeder	3 5	Ottumwa	6391	Wapello	6	41 00	92 24	620	7A	7A	Winfrey Kinser	3
Clinton No. 1	1635	Clinton	14	41 50	90 11	889	7P	7P	Samuel W. Williams	2 3 5	Perry 2 mi. SE	6566	Dallas	20	41 51	94 08	975	7P	7P	Eugene W. Bastie	2 3 5
Clinton No. 2	1640	Clinton	14	41 50	90 11		7P	7P	David W. Swift	3	Pocahontas	6719	Pocahontas	8	42 44	94 40	1229	5P	5P	Thomas A. Mc Mahon	2 3 5
Columbus Junction	1731	Louisa	10	41 17	91 22	595	6P	6P	Alice Best	2 3 5	Pringhar	6800	O'Brien	11	43 05	93 38	1517	6P	6P	S. A. Ballard	2 3 5
Coon Rapids	1793	Carroll	20	41 51	94 39		6P	6P	Charles W. Smith	3 4	Red Oak	6940	Montgomery	16	41 01	95 13	1077	6P	6P	Clarence M. Totty	2 3 5
Corning 2 mi. E	1833	Adams	17	41 00	94 43	1285	6P	6P	John W. Morris	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16	41 01	95 14		7A	7A	Mrs. E. W. Conard	3
Council Bluffs 8 mi. NE	1888	Pottawattamie	15	41 20	95 49		6P	6P	Mrs. B. O. Crane	3 4	Rensselaer	6975	Plymouth	7	42 49	95 58		6P	6P	Municipal P & L Pl.	3 4
Council Bluffs 5 mi. NE	1889	Pottawattamie	15	41 19	95 49		6P	6P	Perry C. Crandall	2 3 5	Ringsted	7058	Emmet	6	43 18	94 30		6P	6P	H. C. Christiansen	2 3 4
Cresco	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Riverton	7085	Fremont	18	40 41	90 35	920	7P	7P	William Stubbe	3
Creston	1982	Union	19	41 03	94 22	1300	7P	7A	Nellie Spangler	2 3 5	Rock Rapids	7147	Lyon	1	43 30	96 10	1541	7P	7P	George Ravelling	2 3 5
Cumberland 3 mi. NW	2007	Cass	17	41 18	94 55	1225	6P	6P	Carl E. Pollock	3	Rockwell City	7181	Calhoun	20	42 24	94 37	1223	7P	7P	F. C. Baileyspacher	2 3 4 5
Cushing 3 mi. NE	2026	Ia	11	42 30	95 39	1350	7P	7P	E. P. Lasher	2 3 5	Sac City	7312	Sac	20	42 26	94 59	1274	6P	6P	F. Floyd Wary	2 3 5
Dakota City	2037	Humboldt	8	42 44	94 12	1133	7P	7P	H. S. Brandgaard	2 3 4 5	Saint Ansgar 2 mi. NW	7326	Mitchell	4	43 24	92 56		6P	6P	Donald R. Cowell	3 4
Davenport WB City	2069	Scott	14	41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5	Saint Charles	7340	Madison	6	41 16	93 47		6P	6P	Rose E. Wise	3 4
Decorah Dry Run	2110	Winnechick	24	43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Sanborn	7386	O'Brien	7	43 11	95 39	1552	7P	7P	Miss Susie O'Dow	2 3 5
Decorah 2 mi. S	2112	Winnechick	24	43 13	91 47	880	7P	7A	Charles Carlson	2 3 5	Sheldahl	7572	Franklin	4	42 54	93 13		6P	6P	Richard J. Galvia	2 3 4
Delaware 2 mi. W	2136	Delaware	12	42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Sheldahl	7594	O'Brien	7	43 10	95 51	1418	7P	7P	Rose E. Forward	2 3 5
Denison 3 mi. S	2171	Crawford	4	43 00	95 32	1307			E. M. Hugg	2 3 5	Shell Rock	7692	Butler	4	43 43	92 33		6P	6P	Elmer J. Apfel	3 4
Derby	2198	Lucas	5	48 58	93 37				Lloyd A. Kirk	3 4	Shenandoah	7613	Page	16	40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5
Des Moines WB Airport	2203	Folk	6	41 32	93 39	984	MID	MID	U.S. Weather Bureau	2 3 4 5	Sibley	7664	Osceola	1	43 24	95 45	1494	6P	6P	R. D. Stewart	2 3 5

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

JUNE 1949

Volume LX No. 6



KANSAS CITY: 1949

IOWA - JUNE, 1949

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The weather during the month of June was warm, humid and showery. Although the temperature average, 72.4°, was only 2.9° above normal, the temperatures were considerably accentuated by many days of humid sultry weather, especially during the last 15 days. About the only break in the weather was the temporary cooling from timely and frequent rains. These frequent showers, averaging 5.51 inches for the State, were most beneficial and welcome after a dry April and May. The June weather was exceptionally favorable for the development and progress of Iowa's crops and the outlook by June 30 was one of the most promising in years.

General rains covered the State on the afternoon and evening of the 1st, ending the spell of dry weather that prevailed most of May. The heaviest rains occurred over the southern third of the State and locally in the north central counties near the Minnesota border. At Shenandoah, two inches of rain fell within one hour. The thundershowers of June 1st were accompanied by strong winds, particularly in the western and northern counties. The most destruction was the tornado which hit portions of Page county in the extreme southwest. See Tornado on June 1st below.

From the 1st until the evening of the 12th, no rain of any significance fell over the State, and, in general, the weather was uneventful. Temperatures remained near or slightly above the normal without extremes of heat or cold. This period of open weather allowed farmers to push their work forward without interruption. Although soil moisture conditions were adequate, there was some concern in north central, northeast and eastern Iowa over the lack of rain for optimum growing conditions.

The 11-day dry spell was broken by general thundershowers--locally heavy in the southwest and extreme east--on the 12th and 13th. Near Maquoketa, over five inches fell within 26 hours. However, some areas in the central and northwest did not receive sufficient rain to afford only very temporary relief.

From the 16th until the end of the month, the weather was marked by moderately high temperatures, especially nighttime readings, light wind movement, and rather high daytime humidities. During this period, temperatures ran rather consistently in the upper 80's and into the 90's. 90° readings were recorded on 3-4 days in the east to 6-8 days in the west. The heat was particularly oppressive to the people of the State as the only relief afforded was the very temporary cooling spells from frequent showers and thunderstorms. Although some showers fell almost every day for the remainder of the month, the most general and widespread rains occurred on the 20th, 23rd and 24th. On the 20th, a local windstorm struck the Sac City Airport, 3 miles south of town, damaging a cement block building and upsetting two planes--one of which was completely demolished. Loss was estimated at \$22,500. During the latter two-day period, very substantial amounts of moisture practically covered the entire State. Heavy rains over the watersheds of the North, Middle, South and Whitebreast Rivers caused some minor flooding of crop land. As a result, the Des Moines River from Tracy south to its mouth rose to bankful or slightly above as the water passed downstream. Some excessive amounts of rain occurred--as usually can be expected this time of year--and there were a few reports of soil erosion and crop destruction in low spots. On the evening of the 23rd, there were scattered reports of wind and hail damage in the northeast with hail the size of walnuts at Dumont, several farm homes damaged by wind in the Shell Rock area; and also at DeWitt several farmsteads incurred losses; in addition, some telephone and power lines were downed as a result of the storm.

On the 25th, Knoxville reported over 2 1/2 inches of rain within 40 minutes which flooded streets and basements. At Van Meter, 1.60 inches fell within an hour, and an accompanying windstorm uprooted many trees. At Mystic, near Centerville, heavy rains sent Walnut Creek over its banks in a small flash flood. At Allendorf, east of Sibley, a torrential rain accompanied by some hail, flattened all growing crops. Nevertheless, the benefit to crops by the generous rains far outweighed the relatively light damage.

On the evening of the 27th, a torrential local rain dumped about four inches in downtown Council Bluffs and vicinity within two hours. Local areas in the city were flooded and many motorists were stalled or temporarily trapped by the water. On the same evening, a severe hail storm shredded growing crops in the vicinity of Dow City, near Denison, in an area several miles wide and six miles long. The hail stones were not particularly large, but the intense rate caused the destruction. Only a small acreage was totally destroyed as most of the growing crops were expected to recover rather quickly.

These scattered showers that continued the last week of the month helped to increase moisture amounts so that monthly totals ranged from 3 1/2 to 4 inches in the northwest and west central districts to 7-8 inches in the southern three districts. The highest temperatures during the month were on the last day when the mercury rose into the 90's throughout the State with the State high of 98° at Sioux Rapids, Hawarden and Sac City.

Since June is one of the critical months in the growth and development of Iowa's crops, all agricultural authorities had conceded that the weather had been exceptionally favorable this year. The timely rains during June had improved the moisture situation, especially in regard to the corn crop. This crop was marked by a very uniform stand, relatively free of water damage and was provided with sufficient moisture to sustain a top condition into July. The Department of Agriculture stated, on June 30th, that it was about the farthest advanced crop of record with a few fields ready to start tasseling. Over 3/4 of the corn was laid by, most of the first crop of clover had been cut, and the winter wheat harvest was just beginning as the month ended. This season, however, Iowa farmers were faced with a serious infestation of the corn borer--the worst threat since the borer was first noted in the State. While considerable interest and preventative measures were taken by many farmers, it was impossible to evaluate the effect on the final yield of the corn crop.

TORNADO OF JUNE 1, 1949

A destructive tornado hit an area near Essex, in Page county, at 6:15 P.M. on the evening of the 1st. Property damage in Page county was estimated near \$350,000. Eyewitnesses reported as many as three separate funnels. Survey from air by Ralph Childs, News Editor, Radio Station KMA, Shenandoah, revealed storm paths of two separate twisters. The first tornado was the most destructive and had its beginning three miles east and a mile south of Shenandoah. It passed across southeast portion of Bingham, a small hamlet on Highway No. 2. The intensity of the storm increased, and the path was wider beginning two miles northeast of Bingham. Examples of storms' fury: A crib with over 10,000 bushels of corn was scattered so far that none could be recovered; only a hog could find the feed. A disc blade was found buried 3 inches deep in a tree. The storm path was ten miles long. About 2 to 2 1/2 miles east of where tornado No. 1 reached its peak, a second tornado was in evidence that traveled northeast and parallel to No. 1. Tornado No. 2 was less destructive and storm path was only about five miles in length. In Page county, there were four farms almost totally destroyed and eight farms hit with varying degrees of damage. Although eyewitnesses reported a third funnel farther east, no evidence was apparent from the air. Four persons were injured during the storm; one of which received scalp wounds from large hailstones. Hailstones averaged one inch in diameter with largest sizes near 2 1/2 inches. Livestock losses were rather large in the storm area. Hogs, little pigs, horses and cows in the area were found dead. Total livestock and crop damage was estimated at near \$50,000.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
JUNE 1949

Station	Sea level pressure extremes—inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	Degree days 65° base
Burlington WB Airport	30.25	9	29.55	24	9.5	42	NW	21	82	86	61	60	75	1
Charles City WB City	30.25	9	29.54	2	6.1	23	SW	1					69	13
Davenport WB City	30.26	9	29.54	25										6
Des Moines WB City	30.18a	9	29.53a	23	8.2	42	SE	2	82a	84a	61a	60a	59	3
Dubuque WB City	30.27	9	29.53	25	5.0	21	NW	23	78	80	54	56	72	9
Sioux City WB City	30.11	4	29.50	1	9.3	37	NW	1	82	88	57	57	66	3

a -- airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	74.5	96	56	4.68			1903	64.6	96	30	2.86		10	1933	77.8	109	34	1.64		4
1874	71.4	98	47	5.83			1904	67.1	94	35	3.45		7	1934	77.2	111	43	3.49		9
1875	67.5	92	45	7.81			1905	69.9	100	36	5.53		10	1935	65.9	94	33	7.00		13
1876	67.6	92	41	4.89			1906	67.9	99	37	3.92		8	1936	70.1	108	37	2.85		8
1877	66.9	92	40	6.80			1907	66.5	98	36	5.35		11	1937	69.0	108	36	3.80		9
1878	66.7	94	44	6.34			1908	67.1	94	35	5.66		13	1938	69.2	102	38	4.67		11
1879	69.4	91	40	5.12			1909	69.1	96	40	6.41		13	1939	71.4	100	41	5.32		12
1880	71.0	96	42	4.40			1910	69.5	105	33	1.99		7	1940	71.3	102	42	3.56		8
1881	70.4	100	40	7.37			1911	75.7	108	36	1.82		5	1941	70.0	98	41	6.20		12
1882	68.1	98	33	7.48			1912	66.2	101	34	2.74		7	1942	69.7	99	34	5.93		12
1883	67.6	96	38	6.69			1913	71.5	102	33	3.31		7	1943	71.6	101	37	6.16		14
1884	70.2	95	38	3.65			1914	72.2	101	40	5.57		13	1944	71.7	101	38	5.88		10
1885	67.9	89	42	5.08			1915	65.1	91	31	4.16		11	1945	64.1	94	29	4.70		12
1886	69.3	96	34	1.73			1916	64.5	96	38	3.71		10	1946	69.8	108	27	6.41		10
1887	72.1	103	40	2.93			1917	66.0	100	32	6.65		12	1947	66.3	98	37	10.39		14
1888	69.4	102	34	2.93			1918	70.8	104	38	5.29		11	1948	68.6	97	37	3.42		10
1889	66.7	98	33	4.75			1919	71.9	98	41	6.13		13	1949	72.4	99	36	5.51	T	10
1890	72.2	106	39	6.67			1920	70.7	99	40	3.56		9	Period	69.6	111	27	4.78	T	10
1891	69.1	99	37	5.39		11	1921	74.7	100	40	3.76		9							
1892	69.2	102	42	5.19		10	1922	72.2	104	38	1.82		6							
1893	71.2	100	40	3.91		8	1923	70.9	100	40	4.93		12							
1894	73.2	104	34	2.67		7	1924	66.8	96	35	8.10		14							
1895	69.7	102	34	4.32		10	1925	70.4	98	38	6.64		12							
1896	69.1	100	40	3.11		9	1926	66.2	105	32	4.52		8							
1897	69.1	103	29	3.81		10	1927	66.4	101	35	2.42		9							
1898	71.4	99	42	4.72		9	1928	64.5	88	31	5.38		12							
1899	70.7	100	42	5.04		10	1929	67.6	99	38	3.08		9							
1900	69.7	102	38	3.98		5	1930	69.0	101	37	5.83		10							
1901	72.3	106	30	3.71		9	1931	75.0	106	36	3.73		9							
1902	65.2	97	32	7.16		14	1932	72.0	99	48	5.17		11							

See reference notes following Station Index

CLIMATOLOGICAL DATA

IOWA
JUNE 1949

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DISTRICT																		
Alta	71.4	2.5	95	30	51	7	4		3.85	-.88	1.54	2			8	4	1	
Alton	71.8	2.9	94	22+	47	7	9		2.86	-1.24	.80	12			8	5		
Cherokee	71.0	2.4	93	20+	46	7	5		4.19	-.01	1.63	1			10	4	2	
Emetsburg	71.9		96	30	48	7	4		4.52		1.76	18			7	4	2	
Estherville	71.3	4.0	97	30	45	7	6		7.33	2.85	1.51	2	T		11	8	3	
Hawarden	72.5	3.5	98	30	48	7	8		2.94	-1.16	.98	1			9	5		
Inwood 2 W	70.3	2.1	96	20+	45	7	7		1.92	-2.53	.91	2			8	2		
Lake Park	70.0	3.0	95	30	43	7	4		2.55	-1.60	.84	18			7	4		
Le Mars	72.4	3.3	96	30	50	3	7		3.92	-.20	1.15	1			8	5	1	
Milford 4 NW	70.2	2.9	93	20+	49	3+	3		5.99	1.84	2.55	24			10	7	2	
Pocahontas 2 SE	72.2	3.6	97	30	46	7	8		.99	-3.72	.33	21			5	3		
Pringhar	71.2	2.7	95	20+	46	7	4		2.57	-1.60	1.00	24			7	4	1	
Rock Rapids	71.1	2.7	95	20+	46	7	5		2.67	-1.68	1.07	20	T		7	2	2	
Sanborn	69.3	1.3	94	30	42	7	4		3.20	-.98	.94	24	T		8			
Sheldon	70.4	2.5	95	20+	46	5	4		2.02	-2.04	.81	1			10	3		
Sibley	69.8	2.5	95	30	43	5	4		2.62	-1.79	.55	1	T		9	6		
Sioux Rapids	70.7	1.9	98	30	43	14	7		3.47	-1.03					6			
Storm Lake 2 E	71.1	2.6	93	17+	49	7	4		2.86	-1.66	1.26	20	T		9	3	1	
DIVISION	71.0	2.7							3.36	-.96								
NORTH CENTRAL DISTRICT																		
Algona	71.9	3.1	94	30	47	7	3		3.95	-.33	1.25	21			12	5	1	
Allison	72.7	3.9	96	30	45	7	8		7.05	2.60	2.65	23	T		11	7	1	
Bancroft	72.7	5.4	99	30	45	7	7		3.88	-.57					11			
Britt	72.0	4.0	95	30	42	8	7		5.82	1.51	1.35	20			13	9	1	
Charles City	72.0	4.2	94	30	48	7	3		5.11	.85	1.43	1	T		9	6	3	
Clarion	71.5	2.5	93	30	47	5+	3		5.81	1.16	1.10	28	T		10	9	2	
Dakota City	72.2	3.3	95	30	47	7	5		3.29	-1.39	1.01	21			11	3	1	
Forest City	70.8	3.2	95	30	42	5	4		3.43	-1.09	.95	2			11	5		
Hampton	72.5	4.0	94	30	48	7	3		4.76	.06	1.16	23	T		13	6	1	
Mason City 3 N	71.5	3.9	95	30	45	5+	5		5.76	1.10	1.56	23			11		2	
Mason City AP CAA	70.9	3.3	95	30	46	5+	3		7.61	2.95	3.43	24			12	5	1	
Northwood	71.1	5.5	94	30	44	7	3		6.67	1.84	1.63	1			10	7	2	
Osage	70.2	2.9	93	30	45	5	2		6.86	2.13	1.38	23			9	8	1	
DIVISION	71.7	3.7							5.38	.83								
NORTHEAST DISTRICT																		
Cascade	71.4		92	30	40	8	3		6.65		2.85	24			8	5	2	
Cresco	70.9	4.4	95	18+	44	8	5		5.61	.91	1.62	24			10	6	2	
Decorah Dry Run	72.0		98	30	41	5	10		5.42		1.38	24			8	7	1	
Decorah 2 S	68.8	3.3	94	30	36	7	4		4.59	.50	.97	13			10	7		
Delaware 2 W	71.2	2.8	92	20	42	8	3		4.29	-.31	.98	23			7	6		
Dubuque WB City	73.3	3.9	94	30	46	8	2		4.85	.69	1.70	23			11	6	1	
Elkader	70.5	3.3	96	12	42	7+	7		5.99	1.47	1.29	2			9	7	2	
Fayette	71.0	3.4	93	30	45	8	3		6.35	2.06	1.50	14			9	6	3	
Guttenberg L & D 10	72.5	2.3	93	30	45	8	3		7.13	2.73	3.05	25			8	7	2	
Independence 2 W	71.9	3.6	93	30	45	7+	5		4.01	-.47	1.24	2			10	5	1	
New Hampton	68.9	1.3	93	30	40	8	3		3.75	-.53	1.00	23			10	6	1	
Oelwein	72.7	4.6	95	30	47	8	6		6.52	2.12	1.60	2			9	6	3	
Saratoga 2 E	68.5		91	30	43	3+	2		5.48		2.70	23			10	5	1	
Tripoli	72.4		94	30	47	8	3		5.54		1.60	13	T		10	5	1	
Waterloo	71.8	2.5	92	30	49	7+	2		4.92	.62	1.33	2			10	6	1	
Waukon	67.7	.7	91	30	40	8	1		6.06	1.66	1.63	24	T		9	7	2	
DIVISION	71.0	3.1							5.45	1.09								
WEST CENTRAL DISTRICT																		
Audubon 2 S	70.8	1.4	92	30	50	7	3		3.16	-1.36	1.11	21			10	4	1	
Carroll	73.0	3.9	96	20	51	7	7		4.31	-.41	1.40	24	T		10			
Castana 4 E	71.2		92	30	49	8	4		3.29		.94	18			9	6		
Cushing 3 NE	71.0	2.9	93	20	51	7+	3		3.75	-.65	1.10	1			11	4	1	
Denison 2 S	72.2	2.8	94	20+	50	8	5		4.17	-.05	1.08	21			9	4	1	
Guthrie Center	72.8	2.7	92	30	52	7	3		3.92	-.73	1.05	23			12	4	1	
Harlan	72.6	2.8	93	30	51	15	3		4.89	.41	.99	20			10	7		
Ida Grove 4 S	72.8M	3.8	97	30		7			1.75	-2.62	.75	20			7	3		
Jefferson	72.6	3.0	94	30	51	7+	3		2.54	-1.95	.93	13			8			
Lake City	72.4	2.5	97	30	49	7+	11		3.62	-1.08	1.38	1			9	5	1	
Logan	72.9	2.2	94	20+	51	8	5		4.38	-.15	1.43	1	T		11	6	1	
Mapleton 5 NW	72.1	2.1	95	30	51	3+	5		2.60	-1.80	.90	20			6	4		
Missouri Valley	74.3	2.3	97	11	54	8+	7		5.47	1.07	1.85	1			14	7	2	
Onawa	72.5	1.6	97	30	48	15	10		3.12	-1.33	.81	18	T		9	3		
Rockwell City	72.5	3.0	97	30	48	7	9		2.69	-2.02	.92	1			11	2		
Sac City	73.4	4.4	98	30	50	7	11		2.44	-1.90	.66	1			9	4		
Sioux City WB AP	72.9	3.4	97	30	51	3	8		3.08	-.95	1.16	1			11	3	1	
DIVISION	72.5	2.6							3.48	-.98								
CENTRAL DISTRICT																		
Ames 3 SW	72.7	2.7	94	20+	51	5+	5		3.91	-.43	.92	2			11	5		
Boone	74.7	4.7	97	20	52	7+	7		4.93	.32	1.68	23	T		10	6	1	
Des Moines WB AP	73.9	3.7	94	20+	52	8	3		4.53	.12	1.03	24			9	6	1	
Des Moines WB City	74.8	3.7	95	23	53	8	6		5.74	1.33	2.03	24			9	7	1	
Fort Dodge	72.8	4.0	96	30	48	7	6		4.71	.33	1.48	28			10	5	2	

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
JUNE 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Grinnell	72.6	2.6	92	20+	48	8	4		7.72	3.04	1.60	25				10	7	4
Grundy Center 4 NE	71.7	3.6	93	30	45	7	2		5.43	.67	1.24	2	T			8	7	2
Iowa Falls 1 N	71.3	3.3	94	30	46	8	2		3.96	.73	1.10	21				8	5	1
Marshalltown	73.2	3.3	94	20+	49	7	5		4.86	.40	1.12	24	T			6	6	2
Newton	75.0	4.4	93	30	51	8	4		6.80	2.36	1.85	25	T			11	7	2
Perry 2 SE	72.5	2.3	94	23	50	9+	3		3.39	.95	1.13	2				9	5	1
State Center	73.7	3.9	95	20	49	7	4		4.75	.30	1.45	2				11	5	2
Toledo	72.2	3.0	93	30	49	7+	4		7.80	3.04	2.12	24	T			9	8	3
Waukee	75.0	4.4	96	23	53	8	7		3.65	.80	1.14	2				6	4	2
Webster City	72.9	4.1	95	20+	47	5+	5		3.99	.51	.90	2				10	7	
Woodward 7 N	73.0M	2.9							1.91	-2.59	.60	12				5	3	
DIVISION	73.3	3.5							4.88	.36								
EAST CENTRAL DISTRICT																		
Anamosa 1 NW	71.1	1.9	92	30	44	8	3		6.68	2.08	1.60	25				8	7	3
Belle Plaine	72.6	2.9	93	30	49	8	4		5.27	.62	1.50	24				8	7	2
Bellevue L & D 12	72.1	3.1	93	30	46	8	2		5.80	1.40	1.77	15				8	6	2
Cedar Rapids No. 1	72.4	2.1	93	30	46	8	3		6.53	2.42	1.86	24				11	6	4
Clinton No. 1	73.2	2.8	92	30	43	8	3		3.65	-.70	.92	14				9	5	
Davenport WB City	75.0	3.7	94	30	46	8	5		5.06	.83	1.85	14				9	4	2
Iowa City	73.2	3.3	93	30	47	8	3		6.53	1.78	3.00	24				10	6	2
Iowa City AP CAA	73.0	3.1	93	18+	46	8	5		6.51	1.76	1.87	24				12	5	2
Le Claire L & D 14	74.3		93	30	46	8	1		5.73	1.55	1.48	14				9	6	3
Maquoketa 5 E	72.6	3.8	92	30	42	8	1		8.16	3.59	3.57	14				10	6	3
Monmouth 4 SW	71.2M	1.7	96	30	41	8			4.82	.27	1.75	24				7	6	2
Muscatine No. 1	74.8	3.7	95	30	48	8	6		4.91	.51	1.37	14	T			9	7	2
Tipton	72.9	2.9	95	30	43	8	7		7.40	3.08	1.92	13				9	8	3
Vinton	73.5	3.9	95	20+	49	7+	8		5.42	.97	2.02	24				5	5	3
Williamsburg	71.8	1.6	91	30	47	8	1		6.44	1.66	2.35	24				8	7	3
DIVISION	72.9	3.0							5.93	1.45								
SOUTHWEST DISTRICT																		
Atlantic 1 E	72.7	2.3	94	20+	51	15	3		6.12	1.32	1.84	13				13	4	3
Atlantic AP CAA	71.5	1.1	95	30	49	15	3		7.63	2.83	1.82	12				12	8	3
Bedford 1 N	72.2	1.0	90	20+	50	2	3		8.94	3.84	2.35	13+				7	6	4
Clarinda	73.1	1.8	93	23+	52	15	3		9.62	4.58	3.57	2				14	9	3
Corning 1 W	71.8	1.6	93	30	51	15	3		5.82	1.28	1.91	2				11	6	2
Council Bluffs 5 NE	73.1		94	20	51	15	3		7.07		2.50	28				13		2
Glenwood 2 E	73.0	.4	96	20	50	15	6		9.33	4.38	2.32	23				12	9	4
Greenfield	72.4	2.1	92	30	53	4+	4		8.56	3.54	4.11	24				12	7	2
Oakland 2 E	72.5	1.7	93	20+	48	15	3		7.60	3.08	2.80	13	T			13	7	3
Red Oak	72.5	.9	93	20	47	15	3		5.32	.57	2.02	1				13	8	1
Shenandoah	74.4	1.9	96	20+	52	9	6		7.59	2.59	2.67	2				12	9	2
Sidney	74.9M		99	20			3		9.45		2.20	1				12	10	2
DIVISION	72.8	1.4							7.75	2.92								
SOUTH CENTRAL DISTRICT																		
Afton	71.3	.1	92	20+	48	8	3		9.93	5.07	4.32	24	T			13	6	4
Albia	73.3	2.7	92	20+	47	8	4		9.69	5.04	2.98	24	T			12	6	3
Centerville	73.6	2.0	93	30	46	8	4		8.60	3.77	2.13	14				11	8	3
Chariton 3 E	72.2	2.4	91	20+	50	10+	3		7.41	2.75	2.32	24				7	7	3
Creston	72.3	2.5	92	23+	51	8	3		7.75	2.64	1.68	2	T			12	8	4
Indianola	74.8	3.9	95	20+	50	8	8		6.18	1.64	1.75	24				8	7	2
Knoxville 2 W	74.3	3.2	93	20+	49	8	4		8.61	4.08	3.70	25	T			8	8	
Millerton	72.6	2.1	91	20	50	8	3		6.36	1.62	2.47	24				9		3
Mount Ayr 2 N	73.4	2.7	91	20+	52	15	3		7.53	2.48	1.25	24				11	9	3
Osceola	73.8	3.8	97	30	52	8	2		9.26	4.51	2.00	21				9	6	5
Tingley	72.0	1.3	92	30	49	15	3		11.51	6.46	4.17	13				9	6	3
Winterset	73.9	2.8	92	23+	52	8	3		5.50	1.19	2.45	24				8	6	1
DIVISION	73.1	2.4							8.26	3.47								
SOUTHEAST DISTRICT																		
Bloomfield 2 N	72.6	.9	97	30	49	8	9		5.84	1.13	1.32	23				10	6	4
Burlington WB AP	75.0	3.5	94	30	48	8	5		3.88	-.96	1.69	14				10	5	1
Columbus Junction	73.6	3.0	94	30	48	8	5		8.86	3.97	2.29	24				10	7	4
Fairfield	73.8	3.0	92	21	49	8	5		6.28	2.13	1.94	2				13	8	1
Keokuk L & D 19	76.5	3.8	95	30	53	8	7											
Keosauqua State Park	72.5	1.2	91	30	50	8	1		7.04	1.86	1.50	14				9	7	3
Mount Pleasant	74.6	3.2	94	30	49	8	6		7.27	2.32	2.36	14				10	8	1
Oskaloosa	73.6	3.3	92	20+	51	8	4		7.30	2.65	1.66	24				10	7	3
Ottumwa 1 WSW	73.6	1.6	93	30	50	8	2		8.87	4.05	3.51	24	T			11	6	4
Ottumwa AP CAA	73.8	1.8	94	30	49	8	3		6.41	1.59	1.63	23				11	8	1
Sigourney	73.9	3.1	92	20+	49	8	2		6.90	2.15	2.04	24				7	6	3
Washington	74.4	3.8	93	30	54	7	5		5.88	1.32	1.44	24				9	7	2
DIVISION	74.0	2.8							6.78	2.04								
STATE	72.4	2.9							5.51	.97								

DAILY PRECIPITATION

IOWA
JUNE 1948

Table 3

Station	Day of month																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Afton	.06	1.58				T	.02		T			1.03	.81					.07		1.48	1.30	.08	.01	4.32	.17		.05	.43				0.93	
Akron	1.26							.07				.45	.45					.02			.75	.03	T	2.98	.16		.38	.84	T			3.82	
Albia	2.60	1.63	.10		T				.07			.05	.45		.02				.07	.10	.05	.12	.59	.16		.04	.84	T			9.69		
Algona		.62										.10	.14								1.63	.09	1.23	1.06	.40		.25				3.95		
Allerton	.55	.40										.80	.62										1.06	.40	.01		.45	.25			7.49		
Allison	.60	.90										.51	.08						.27		.91	.18	2.65	.85	.05		T	.05			7.05		
Alta		1.54										.70							.03		.75	.09			.18		.08	T			3.85		
Alton	.40											.52							.12	T		.31	.09	.52	T		.09		T		2.86		
Ames 3 SW	Z	.02	.92									.24	.16		.02				.01	T	.80	.02	.45	.55	.04		T	.70			3.91		
Anamosa 1 NW		.02	.78									1.36									.61	.60	1.50	1.60			.33				6.68		
Atlantic 1 E		1.50	.10					T	T	.12		.02	1.84	.03					T		1.42	T	.89		.02	.04	.02	.02	.10			6.12	
Atlantic AP CAA	Z //	1.34	T		T			.02	T	.32		1.82	.58	T					.02		1.53	T	.72	.35		.06	.76		.13		7.63		
Audubon 2 S		.88	T					T	T	.03			.41	.01					.03		1.11	.40	.04			.02	.02		.23		3.18		
Augusta		.13	1.20	.15								.08	1.46	.22						.79	.08	.14	.35	.50	.50	.28	T		.57		5.44		
Bancroft		*	1.00									.87		.03									.67	.26							3.88		
Bartlett 3 E		1.47						.50				.12	.75	T					.15		.19	1.90	1.00	.55			2.00	1.27	.32		8.95		
Bedford 1 N			2.05					.22				2.35	.35						T	.35			2.35								8.94		
Belle Plaine		.28	1.13									.27	.63								.63	T	T	1.50	.72	T		.13			5.27		
Bellevue L & D 12	Z		.54	T								.62	1.77							.82	T	1.86	1.16				.14	.01			5.80		
Blockton 2 S			2.23					.09				.15	1.14	.49						.13			.48	.29	.27		.95				8.22		
Bloomfield 2 W		1.22	.67	.20		T						.04	.37	1.51	.02					T		.44	.17	1.45							4.93		
Boone		.78	.17									.69	.17							T	.62	.03	1.68	.40			.31	.08			4.93		
Britt			.91					.02	T			.40	.37	.01					.33	.02	1.35	.07	.25	.90	.41		.78				5.82		
Burlington WB AP	Z //	.13	1.17								T	1.22	1.18							.27	.02	1.32	.21	.01	T	T	.31				5.84		
Carroll		*	1.00							.11		.43	T						.42		.68		1.40	.05			.17	.05			4.31		
Cascade	Z	.04	.90									.13	1.40						.94	T	.31	.40	.75	2.85			.18				6.65		
Castana 4 E		.68								.05		.26										.27	.03				.63					3.29	
Cedar Falls		.30	1.20									.08	.03	.57							1.38	T	1.14	.10	.44						5.24		
Cedar Rapids No. 1		.22	1.13	.08								.04	.43	.34							1.12	T	1.86	1.16			.14	.01			6.53		
Cedar Rapids No. 2		.07	1.18	.08								.04	.70	.39							.92		.01	1.86	1.23			.10	.01			6.59	
Canterville	Z	.91	1.00							.10		.64	2.13								1.26	.91	.05	.90			.63	.07			8.60		
Chariton 3 E			1.20									.46	.45								1.32		2.32	.75			.91				7.41		
Charles City	Z	1.43										.54	.06	.01					.04	.04	1.12	.47	.36	1.08			T				5.11		
Cherokee	Z	1.63	.02							.03		.45								T	.28	.20	1.40			.02					4.19		
Clarence			T	.33								1.57	.29								.64	T	2.32	.55			.12	.10			5.92		
Clarinda		.01	3.57					.29	.21			.70	.42	T					.59	.22		.35	.01	1.32	.38			1.47		.08		9.82	
Clarion		T	.85									.25	T						.30	.55	1.00	.06	.65	.50	.55	T	T	1.10			5.81		
Clinton No. 1			.47	T								.19	.92								.12		.46	.47	.78	.02		.22				3.85	
Clinton No. 2			.31	.13								.65	.66								.12	T	.02	.82	.81			.24				3.78	
Columbus Junction		.05	.62	.07							.04	.02	1.69								.51	.20		.43			.25					3.88	
Coon Rapids		.50								.02		.93	.01	.01					.05		.50	.09	.59	.04			.24		.03			3.01	
Corning 1 W		.05	1.91									.07	.28							.03	.58	.24	1.03	.77			.77					5.82	
Council Bluffs 6 NE	R	.95						.33	.05			.20	.25						.50	.03	.35	.60	.28	.03		3.26	.02	.38				7.23	
Council Bluffs 5 NE			.99		T			.16	.15	.05		1.15							.29		.24	.63	*	.42			2.50	.41				7.07	
Cresco		.03	.90									.10	.66	.07							.53		1.05	1.62	.56		.09					5.61	
Creston		.01	1.68						.09	T	.01	1.15	.59						.26			1.21	.07	1.65	.53		.50					7.75	
Cumberland 5 NW		.12	1.49		T				T	T	T	.55	.07						.01	T	T	1.45	T	.80	.90	.10	.09	.47	.12			8.18	
Cushing 3 NE		1.10	.05							.02		.89							.15		.13	.42	.75	.02			.21	T	.01			3.75	
Dakota City		T	.99									.12							.57	.14	T	1.01	.06	.06	.07	.12	.10	.05				3.29	
Davenport WB City	Z Z	T	.95			T						.05	1.85							.38	.01	1.23	.22	.18			T	.19				5.06	
Decorah Dry Run			.90									.94	.28								.83		.74	1.38	.32			.03				5.42	
Decorah 2 S			.69	.02								.97	.04	.28							.81		.81	.55	.32								4.59
Delaware 2 W			.91									.23	.42	.29							.52	T	.98	.94									4.29
Denison 2 S		.78						.02	.15			.88								.08		1.08	.14										4.17
Derby	R	.81	.44									.03	.29	.24							1.77	.11	2.75	.12	.01		.78	.16				7.51	
Des Moines WB AP	Z	.81	.05		T							.01	.34	.54							.57	T	T	.96	1.03		.22	T	T			4.53	
Des Moines WB City	Z	.93	.07									.04	.33	.56							.67	T	T	.83	2.03		.28	T	T			5.74	
Dexter	R	.58	.02									.47	.02							1.05	.41	.07	.86	1.14			.12					4.74	
Donnellson 4 N		.40	1.23	.15								1.91	.35								.47		.39	.55	.45		1.02					6.92	
Dorchester		.43										1.87									1.47		.25	1.46									5.48
Dubuque WB City	Z	.37	.81									.06	T	.87							.02	.28	.05	1.70	.66	.01		.02				4.85	
Dumont 4 NW		.73	.85									.07	.14	.24						.22	.59		.23	2.84	1.53	.29		T				7.73	
Dunbar 2 NE		1.18	1.53									.10	.81								.58		.27	1.90	*		.26	.12					6.85
Eddyville		1.05	1.31	.23						.30		T	.54	.56							.46		T	2.95	.12			.80					8.32
Eldora												.22	T								.76		1.33	.27			.03						-
Elkader			1.29																														

DAILY PRECIPITATION

IOWA
JUNE 1949

Table 3-Continued

Station	Day of month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Lenox	3.40	.06					.12					.44	.69	.32							.45	.52	.02	1.41	.81	.03		.55	.12				8.40	
Logan	1.43							.28	.15				.70						.18			.48	.02	.61				.08	.05	.38			4.38	
Malvern 5 W	1.52						.48	T	.07				1.92	.09	T				.47			1.44		1.47	.35	T		.77				9.08		
Mapleton 5 NW	.47						T					.10	.27							.90		.12		.46	1.04	.68	.03	.79	.23	.07			2.60	
Maquoketa 5 E	T	.47	.06								T		1.50	3.57								.85	.13		1.52	1.53	.08		.08				8.16	
Marion 4 NE	R	.75	.84										*	1.96								.85	.13		1.52	1.53	.08		.08				7.52	
Marshalltown		.70	1.10										.14	.03					.06	.45	.95	.52		1.56	1.53	.05	.02	T				4.86		
Mason City 3 N		*	.97						T				.08	.08	.03				.22	.91	.74		.05	.96	3.43	.24		.02					5.76	
Mason City AP CAA		.87							T				.08	.08	.03							.44	.03	.13		1.58		.71		.07			7.61	
Morrill 5 W		1.00							.07				.44										.03	.13		1.58		.71		.07			4.47	
Milford 4 NW		1.33	.32	T								.34	.10						.70		.03	.27		2.55		.32	.03						6.99	
Millerton		.14	1.02								.01	.11	*	.52							1.50		.27		2.47			.35	.01	.55			6.36	
Missouri Valley	Z	1.85			T	T		.04	.28	.04			1.24	.01					.12		T	.50	.06	.38	.03		T	.35	.01	.55			6.47	
Monmouth 4 SW		T	.32										T	1.20								.35	.85	1.75		.45	T	.10	.10				4.82	
Monona		.95	.45									.47	.23	1.50								.65	.17	.05	1.70	.84		.24	.05				7.30	
Monterezuma		.95	1.95				.09							.87	.28							.52		T	1.08	.50		.51	.37	.02				7.14
Morse	R	.16	.61										1.65	.52							.30	.41	.05	1.85	1.24	.01		.18	.10				7.08	
Morse 1 NE	R	.30	.52										1.60	.48							.39	.31	.08	1.66	1.07			.18	.05				6.64	
Morse 4 SSW	R	.07	.67									.20	.09	.60							.50	.36	.04	1.70	1.50			.10	.10				5.92	
Mount Ayr 2 N	Z	1.09								1.06		.05	.66	.87					.14			.53	.63	1.25	.68			.77					7.53	
Mt. Pleasant	Z	.28	.51									.22	.21	2.36							.82		.46	.73		.98		.70					7.27	
Noville	R	1.16	.04					.03	.05			.20	.47						.07		.23	.13		1.27			.26		.06				3.97	
Muscataine No. 1	Z	T	.48	.10									.08	1.37	T						.39		.33	1.10	.59			.49					4.91	
Muscataine No. 2	Z	T	.35	.18									.10	1.48	.11						.39	T	.10	1.39	.88			.47					5.45	
Muscataine 6 N	R		.74										.09	1.10							.38		1.23	.55	.08			.30					4.47	
New Hampton			.79									.30	.36	.06								.82	.20	1.00	.34	.02		.08					3.75	
Newton		.83	1.43										.09	.37	.07	.01					.72		.02	.91	1.85			.60					6.80	
North English	R	.76	.78										.02	.31							.65	.33		1.68	1.08	.02		.18	.11				5.90	
Northwood		1.63	.94										.65							.04	.09	.97		1.04	.58	.72	.01		T	T			6.67	
Norwich 2 E SCS Fa	Z	.78	2.85				.22					.35	1.47	.14						.48		.12		1.09			.79	.27	.40				9.12	
Oakland 2 E		.05	1.40				.08	.02	.27				2.80	.02					.08	T		.61	.28	.27		1.56		.16					7.60	
Oasis	R	.21	.51										.25	.65						.44	.31	.06	1.87	1.28			.13	.07					5.78	
Oelwein		.03	1.60									.15	.82	1.48							.62		1.00	.64			.20	.18					6.52	
Onawa		.74					.19	.24				.50		T					.08	.81		.20					.04	.18					3.12	
Osage		.52	.95										.52	T							.64	.96		1.38	.97	.88		.04					6.88	
Osceola		.03	1.74									.13	.77	1.36								2.00		1.84	1.55								9.26	
Onkaloosa		1.65	1.55									.23	.30	.03								.72	T	1.66	.20		T	.64	T				7.30	
Ottumwa 1 WSW	Z	.80	1.10					.16				.13	.04	1.28	.02						1.10			3.51	.02			.71					8.87	
Ottumwa AP CAA		.82	.95					.14				T	.03	.83							.56	.25	T	1.63	.51	T		.48	.21				6.41	
Ottumwa		.75	.92	.26					.02				.07	1.03	.31						.97			3.59	.04			.69	.03					8.68
Pella		.69	1.75							.08			T	.65	1.10							.67		1.09	1.03		T	.68	.05				7.79	
Perry		T	1.13										.59	.13					.04	T		.54		.32	.48	.03		.13	T				3.39	
Pocahontas 2 SE													.25								.33		.01	.15			.25							.99
Prinzgar		.65	.25										.13	1.00							.37	.04	.46	.34			.85	.14	.13				2.57	
Red Oak		2.02	T				.28			T			.06	.26	.02				.35	T		.25	.37	.04	.46	.34		.85	.14	.13			5.32	
Rensselaer	R	.71						.03	.03			.13									.12		.40	.33	.45		.30						2.50	
Ringsted	R											.17										.84	.05	.35	.10									
Riverton		1.93	.50				1.30				T	.18	.25	.03						.15	.42		1.05	.87	.24		1.42		.57				8.72	
Rock Rapids		1.04						.08	T			.21	.10							T	1.07		.05	T									2.87	
Rockwell City	Z	.92	.20										.14							.10	.12		.24	T	.06	.03	T	.01	.86	T			2.69	
Sac City		.66										.08	.62							.45	T	.42	.02	.05	.06		T	.08					2.44	
St. Charles	R	1.37	.12									.44	2.52								.72	.08		1.30	2.81	.03		.20	.03	T			9.62	
Sanborn		.86										.24	.16							.56	*	.30	.14	.94									3.20	
Saratoga 2 E		.07	.80									.15	.22	T						.30	.02	.55	T	2.70	.24	.25		.48					5.48	
Sheffield	R	.52										.15	.10							.30	.92	.05		.41	.54	.04							3.03	
Sheldon		.81						.03				.31	.20							.01	.01	.30	.09	.09	.09		.17		T				2.02	
Shell Rock	R	1.10	.05									.86	.46	.12							1.29	.02	.30	1.75	.21		1.06	.56					6.18	
Shenandoah		.25	2.67				.28	.04	T			.78	.67	.05						.07		.53		.63				.05	.56				7.59	
Sibley		.55	.40									.40	.26							.30	.07		.22	.37				.05	.56				2.82	
Sidney		2.20	.88				.72					.09	.62							.06		.43	1.98	.75			.55	.65	.52				9.45	
Sigourney		.45	1.20										T	T	.04							1.68			2.04	.15		.44					6.90	
Sioux Center	R	.84										.50										.20	.25			.15		.18					2.07	
Sioux City 8 N		.03	1.00										.68									.35	.25		.65			.42					3.25	
Sioux City WB																																		

HOURLY PRECIPITATION

IOWA
JUNE 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MOUNT ATR 2N									.05		.02									.04				.11	
MOUNT PLEASANT																				.03	.14	.01	.02	.13	
MOVILLE																						.02	.02	.04	
MUSCATINE NO 1														.35								1.17	.02	1.54	
NORWICH 2E SCS FARM															.13							.01	.01	.13	
OTTUMWA 1WSW	6																			.02	.10	.01	.01	.17	
REMSEN																					.08	.04	.05	.17	
RINGSTED																					.02	.01	.03	.08	
ROCKWELL CITY																.15						.01	.03	.15	
SHEFFIELD														.13								.59	.14	.86	
SHELL ROCK																*	*					.50	.01	.50	
SIOUX CENTER																				.60	.13	.02	.02	.77	
SIOUX CITY WB APT																					.18	.08	.08	.38	
SOLDIER																						*	*		
SPENCER 1N	6												.07							.48	.02	.05	.01	.63	
SPILLVILLE																.05	.12					.75	.12	1.37	
STRAWBERRY POINT																						.11	.01	.12	
TABOR 6NW																						.43	.16	.60	
WEBSTER CITY																									
WOODBINE SSE																									
-13th-																									
ALLERTON				.30	.05	.02	.03						.02	.03	.02	.08	.04					.04	.17	.80	
AMES 3SW		.01	.09				.02							.07	.01	.02	.01					.02	.04	.29	
ATLANTIC AP CAA	//	.17	.18	.05			.01																	.43	
BELLEVUE L/D 12										.02												.01	.01	.25	
BURLINGTON WB APT	//									.53	.28										.03	.37	.01	1.22	
CASCADE																									
CENTERVILLE				.05	.45	.12	.12																	.66	
CHARLES CITY			.05	.01																				.01	
COON RAPIDS		.01																						.25	
COUNCIL BLUFFS 6 NR		.13	.06			.02						.01	.01	.02										.07	
DAKOTA CITY		.06	.01											.05										.05	
DAVENPORT WB CITY																								.09	
DERBY			.10																					.29	
DES MOINES WB APT		.04		.05	.07	.03	.09			.01				.02								.01	.01	.34	
DES MOINES WB CITY		.03	.03	.08	.02	.07	.02							.02								.02	.01	.47	
DEXTER		.12	.08	.01	.02	.04		.02	.02	.01	.05											.06	.02	.04	
FOREST CITY		.01	.03	.01																				.62	
GREENFIELD		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.50	.01	.04	.03	.29	
GRINNELL																		.18		.09	.02			.26	
HAMBURG		.01	.02	.08	.08	.02														.01	.04			.03	
HARTLEY 3S			.01							.01	.01													.05	
HINTON 5NW		.02	.01	.02																				.13	
HORNICK		.01	.02	.01			.08																	.05	
IDA GROVE 4S		.01	.03	.01																					
IOWA CITY AP CAA	6	.17																						.38	
IOWA C RALSTON CRK1		.30																.05					.01	.14	
IOWA C RALSTON CRK2		.08																		.01	.05			.18	
IOWA C RALSTON CRK3		.16																		.02	.01			.20	
IOWA C RALSTON CRK4		.18																		.04				.22	
IOWA C RALSTON CRK5		.18																						.18	
IOWA FALLS 1N		.09	.08	.01	.01	.01																		.34	
KEOUK WBO														.08	.02							.12	.08	.48	
KNOXVILLE 2W																.19	.21			.09				.21	
LAMONI													.06							.10	.08	.02	.02	.69	
LENOX		.12	.21	.06	.02																			.45	
MARION 4NE																									
MARSHALLTOWN NO 2			.02	.09	.03	.05	.05	.16	.04	.01														.15	
MASON CITY AP CAA	6									.04	*													.23	
MISSOURI VALLEY		.04	.04	.01	.01	.09				.01	.03													1.65	
MONONA		.09	.02	.02	.01	.09												.01	1.17	.37	.01			1.60	
MORSE		.09																						.09	
MORSE 1NE		.06										.02						.01	.01	.70	.73	.07		.94	
MORSE 4SSW		.05			.02	.01	.01													.02	.01	.01	.19	.08	
MOUNT ATR 2N			.28	.02	.25	.03														.02	.01	.01	.19	.15	
MOUNT PLEASANT		.01	.02	.01																		.03		.47	
MOVILLE		.06	.11	.27	.01	.02																		.02	
MUSCATINE NO 1		.01																				.01		.07	
MUSCATINE 7N			.02																					.02	
NORTH ENGLISH																				.02				.42	
NORWICH 2E SCS FARM			.03	.09	.08	.04	.01	.02										.10	.02	.02	.04	.07		.25	
OASIS																								.13	
OTTUMWA 1WSW			.02	.01			.03		.01					.02										.03	
OTTUMWA AP CAA	6									.03															
RINGSTED		.01	.01																					.03	
ROCKWELL CITY			.01																					.44	
SAINT CHARLES		.10	.15		.05	.03	.02			.04	.01												.01	.10	
SHEFFIELD			.08	.02																				.46	
SHELL ROCK		.40	.03	.03																				.23	
SIOUX CITY WB APT		.02	.13	.07	.01	.01	.01																	.04	
SOLDIER						.01	.01			.02															
SPENCER 1N	6	.43																						.04	
SPILLVILLE		.01	.02	.01																				.30	
STRAWBERRY POINT		.04	.16	.08	.01	.01																		.23	
TABOR 6NW		.14	.03	.08	.02	.01		.05																.28	
TRAEER			.21	.01																				.59	
WALLIN 2NW		.28	.16	.06	.02	.03		.02	.02															.13	
WASHINGTON																						.05	.08	.17	
WEBSTER CITY		.16	.01																					.93	
WHEATLAND													.13			.71	.03			.06					
-14th-																									
ALLERTON		.06	.05	.04	.08	.16	.09	.04	.04	.01	.05													.63	
AMES 3SW		.02	.02	.02	.01	.01	.01	.02	.01																

HOURLY PRECIPITATION

IOWA
JUNE 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
KEOKUK WBO	.10	.10	.01		.12	.04					.04					.04								.45	
KNOXVILLE 2W	.05	.06	.05	.04	.05	.04			.01	.02														.32	
LAMONI	.03	.06	.02	.05	.15	.03	.02																	.32	
LENOX	.13	.12	.07																					1.96	
MARION 4NE	*	*	*	*	*	*	*	*	*	*	*	1.96													-
MASON CITY AP CAA	6										.01										.03			.01	
MISSOURI VALLEY					.05	.06	.38	.44	.36	.09	.09	.03													1.50
MONONA		.04	.01	.01	.07	.05	.07	.11	.10	.06														.52	
MORSE		.05		.08	.05		.02	.10	.09	.09														.48	
MORSE 1NE		.02	.16		.10		.05	.08	.08	.02	.08	.01													.60
MORSE 4SSW		.01		.01	.08	.18	.02																	.32	
MOUNT AYE 2N	.02	.01		.33	.07	.13	.15	.21	.03	.01	.15	.42		.08	.16									2.27	
MOUNT PLEASANT		.01	.52	.10	.51	.39	.22	.03	.03	.01														1.35	
MUSCATINE NO 1	.05	.01		.08	.35	.30	.20	.07	.02	.01	.01													1.10	
MUSCATINE 7N	.04	.02		.06	.04	.04	.01	.08	.03															.31	
NORTH ENGLISH		.03	.02	.01	.07	.05	.08	.07	.10	.05														.65	
OASIS	.07	.12	.03	.06	.10	.17	.13	.08	.02	.01	.01	.02												1.21	
OTTUMWA 1WSW	.20	.27	.14				.52	*	*	*	*	*	.21												-
OTTUMWA AP CAA	6	.10	*	1.39	.31	.31	.04																		2.52
SAINT CHARLES		.07	.07	.02	.02	.02	.02	.02	.04	.02														.12	
SHELL ROCK				.01	.01	.03	.02	.02	.02	.02	.01	.01													.11
SPILLVILLE				.03	.11	.08	.11	.12	.07	.02	.02													.60	
STRAWBERRY POINT	.01	.01	.02														.02	.01							.03
TABOR 6NW		.02	.04	.04	.10	.10	.10	.12	.28	.02														.82	
TRAEER		.01	.01	.15	.08	.02	.18	.13	.02															.60	
WASHINGTON		.03	.02	.12	.06	.36	.16	.13		.01	.18													1.07	
WHEATLAND																								-	
-16th-																									
AMES 3SW		.02																						.02	
-17th-																									
HARTLEY 3S																						.05	.04	.01	.10
HORNICK																					.10				.08
SIoux CENTER																					*	*	*	.10	
SPENCER 1N	6																				*	*	*	-	
-18th-																									
AMES 3SW				.01																				.01	
ATLANTIC AP CAA	//		.02								.04													.02	
CHEROKKE											.05													.04	
COON RAPIDS							.31	.06	.12	.01															.50
COUNCIL BLUFFS 6 NE																								.55	
DAKOTA CITY	.07	.18	*	.29	.01																			1.05	
DEXTER			*	*	*	1.05																		.13	
FOREST CITY							.11	.02														.10		.13	
GREENFIELD				.03																				.03	
HINTON 5NW										.01	.01	.01													.80
HORNICK							.28	.32	.12	.06	.01	.01													.15
IOWA FALLS 1N		.01	.04	.05	.04	.01							.04	.01											.05
LARRABEE							.22																		.12
MASON CITY AP CAA	6	*	*	*	*	*	.05	.05	.02																.14
MISSOURI VALLEY						.02	.12																		.07
MOUNT AYE 2N							.02	.03	.02																.48
MOVILLE				.04	.08		.01	.32	.01		.01	.01													.12
NORWICH 2E SCS FARM											.05	.05	.02												.10
REMSEN		.04	.06																						.30
ROCKWELL CITY		.08	.09	.08	.05																				.02
SHEFFIELD		.01		.01																					.09
SHELL ROCK										.02	.01	.03	.03												.60
SIoux CITY WB APT										.36	.07	.12	.03	.02											-
SOLDIER																									.09
SPENCER 1N	6	.56					.09																		.36
TABOR 6NW				.26	.10																				.40
WALLIN 2NW		.36	.03	.01																					.68
WEBSTER CITY							.08	.37	.12	.06	.03													-	
WOODBINE 5SE																									.04
-19th-																									
CHARLES CITY													.01	.07	.04	.06								.14	
DAKOTA CITY							.08	.02							.13	.01								.24	
FOREST CITY																								.02	
GREENFIELD	.01	.01											.22	*	*	*	.73	*	*	*	*	*	*	.22	
IOWA FALLS 1N																								-	
MASON CITY AP CAA	6															.08	.03							.11	
RINGSTED													.38	.01	.02									.41	
ROCKWELL CITY																								-	
WEBSTER CITY																								-	
-20th-																									
ALLERTON							.04	.57	.10	.03														.74	
AMES 3SW																					1.47	.01	.09	.03	
ATLANTIC AP CAA	//																							.21	
CASCADE																						.02	.54	.57	
CENTERVILLE																					.69	.34	.09	1.12	
CHARLES CITY																					.30			.30	
CHEROKKE																						.49	.01	.50	
COON RAPIDS																					*	.35		.35	
COUNCIL BLUFFS 6 NE																.01	.03	.87	.10					1.01	
DAKOTA CITY																						1.14	.63	1.77	
DERBY																						.50	.04	.03	
DES MOINES WB APT																						.62	.03	.02	
DES MOINES WB CITY																						.39	.01	.01	
DEXTER																							.02	.02	
DUBUQUE WB CITY																						.06	.01	.01	
FOREST CITY																						.76	.63	.08	
GREENFIELD																						.38	.11	.49</	

HOURLY PRECIPITATION

IOWA
JUNE 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
IOWA C RALSTON CRK4	.34	.14	.01															.20	.17	.01		.57	.01	1.45		
IOWA C RALSTON CRK5	.30	.20		.01	.02	.01	.01											.15	.07	.01	.68	.01	.03	1.50		
IOWA FALLS 1N														.08	.28	.32								.70		
KEOKUK WBO	.01	.02	.03																	.11	.04		.40	.61		
KNOXVILLE 2W	.09		.01	.04	.02														3.07	.50	.02	.06	.02	3.83		
LAMONI																	.12	.09		.32	.05	.01		.59		
LARRABEE		.11	.01										.08	.04	1.08	.09	.08	.02	.01					1.52		
LENOX		.01	.02				.24	.03							.07	.18		.17	.09					.81		
MARION 4NE	.18	.05	.02													.03		.21	.07	.55	.36	.06		1.53		
MARSHALLTOWN NO 2	.04			.01	.01		.01	.02							.01	.32	.11	.12	.25	.10		.01		1.01		
MASON CITY AP CAA	6																									
MONONA			.02	.01														.37	.16	.08	.14	.04	.01	.01	.84	
MORSE	.20	.13	.02															.40	.13	.03		.28	.01	.04	1.24	
MORSE 1NE	.22	.15																.23	.10	.06		.27	.03	.01	1.07	
MORSE 4SSW	.27	.10																.42	.13			.50	.08		1.50	
MOUNT AYE 2N	.01		.01													.38	.02			.20	.05	.02		.70		
MOUNT PLEASANT	.03	.05	.06	.06																	.03	.62	.20	.09	1.14	
MOVILLE															1.11	.12	.04								1.27	
MUSCATINE NO 1	*	*	*	*	1.10																	*	.55	.10	2.00	
MUSCATINE 7N	.15	.06	.02																		.01	.19	.10	.02	.55	
NORTH ENGLISH	.13	.14	.03	.02																	.07	.32	.35		1.08	
NORWICH 2E SCS FARM																.04	.07	.11	.03					.25		
OASIS	.19	.09																.02	.56		.10	.19	.13		1.28	
OTTUMWA AP CAA	6	2.01	*	*	*	*		.07											.01	*	*	*	*	*		
REMSEN															.03	.26		.02	.04	.10					.45	
RINGSTED																.22	.11								.35	
ROCKWELL CITY																.05									.05	
SAINT CHARLES																	1.30	1.01	.20	.06	.05				2.81	
SHEFFIELD	.02	.02									.15										.18	.14	.03		.54	
SHELL ROCK														.01	.01	.01	.02	.05	.03	.02	.05		.01		.21	
SIoux CITY WB APT														.04		.01	.14	.10	.01						.30	
SPENCER 1N	6	*	*	*	*	*		.02													.76					
SPILLVILLE		.01															.11	.39	.01	.22		.01			.75	
STRAWBERRY POINT																					1.07	.07	.48		2.00	
TABOR 6NW									.01	.01						.01	.27	.06	.02	.08	.10	.10			.36	
TRAEER	.09	.01	.01		.01																				.42	
WALLIN 2WNW																	.05	.05							.10	
WASHINGTON	.46	.04	.02														.02				.98	.09	.02	.05	1.68	
WEBSTER CITY														.05				.05			.02	.27			.40	
WHEATLAND	.18	.04	.08																	.03		.59	.26	.02	1.20	
-25th-																										
ALLERTON			.01																						.01	
AMES 3SW				.01																					.01	
BELLEVUE L/D 12	//	.07	.02																						.09	
BURLINGTON WB APT	//	.01																							.01	
CASCADE		.01	.01	.01																					.03	
CENTERVILLE			.02	.01																					.03	
COUNCIL BLUFFS 6 NE																					.01				.05	
DAKOTA CITY																							.10		.10	
DAVENPORT WB CITY		.16	.01	.01																					.18	
DERBY			.01																						.01	
DUBUQUE WB CITY			.01																						.01	
FOREST CITY																						.26	.02	.01	.29	
GREENFIELD																					*	*	*	*	*	
GRINNELL	6	.01	.01	.01	.01																				.04	
IOWA CITY AP CAA	6	.60																							.04	
IOWA C RALSTON CRK4		.04																							.01	
IOWA C RALSTON CRK5				.01																					.05	
KEOKUK WBO		.01	.01	.01	.01	.01																			.03	
LAMONI			.01	.02																					.03	
LENOX			.01	.02																					.06	
MARION 4NE							.06																			
MASON CITY AP CAA	6	1.21																			*	*	*	*	.01	
MORSE		.01																							.01	
MOUNT PLEASANT		.01																							.10	
MUSCATINE NO 1		.05	.01	.02	.02																				.08	
MUSCATINE 7N		.06	.01	.01																					.02	
NORTH ENGLISH			.01	.01																					.02	
OTTUMWA 1SW	6	2.43																							2.43	
OTTUMWA AP CAA	6	.05																								
RINGSTED																						.10			.10	
SAINT CHARLES				.01	.01	.01																	.04		.03	
SHEFFIELD	6																					.04			.04	
SPENCER 1E	6																					.38			.04	
SPILLVILLE		.01	.01	.02																					.04	
STRAWBERRY POINT		.02	.01	.01																					.04	
WASHINGTON		.04	.01	.01	.01																				.07	
WHEATLAND		.05	.02	.02	.02																				.11	
-26th-																										
ATLANTIC AP CAA	//			.01	.05																				.06	
GREENFIELD	//	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.75
KEOKUK WBO													.17	.50	.05	.02	.01									
MASON CITY AP CAA	6	.24																								
-27th-																										
ALLERTON																									.45	
AMES 3 SW								.08	.48		.01														.57	
ATLANTIC AP CAA	//	.12	.01					.01	.01												.57	.01			.73	
CASCADE																									.12	
CENTERVILLE																						.22	.23	.09	.54	
CHEROKEE				.04																					.04	
COON RAPIDS																		.02	.13	.08					.24	
COUNCIL BLUFFS 6 NE																	.01	.62	1.64	.95					3.26	
DAKOTA CITY					.01	.03																			.05	
DERBY																									.05	
DES MOINES WB APT																					.41	.04	.14	.19	.78	
DES MOINES WB CITY																										

DAILY TEMPERATURES

IOWA
JUNE 1949

Table 5

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
AFTON	MAX MIN	82 64	80 56	78 56	80 57	82 55	85 59	78 52	70 48	74 54	85 55	86 55	85 62	80 60	76 60	83 50	82 55	86 58	84 65	87 66	92 66	85 63	83 57	91 63	84 60	87 60	85 65	88 66	85 62	86 61	82 68	83.4 59.2
ALBIA	MAX MIN	83 62	79 61	84 60	81 60	80 57	86 63	75 53	70 47	77 54	85 55	87 63	87 66	82 67	75 66	83 55	83 59	87 60	89 66	90 66	92 69	84 65	89 61	91 65	86 63	86 66	81 69	87 67	86 66	88 65	82 71	84.1 62.4
ALGONA	MAX MIN	84 63	76 61	80 60	78 60	82 49	74 64	74 47	80 51	84 50	88 56	87 63	80 65	73 62	84 57	86 60	93 63	83 65	83 64	90 64	83 71	80 65	85 65	77 65	85 62	85 62	88 67	80 66	88 65	94 73	82.5 61.2	
ALLISON	MAX MIN	82 64	79 61	82 54	78 47	83 52	78 64	75 45	70 50	85 51	88 60	91 62	91 65	75 65	74 63	82 52	78 58	90 65	94 64	92 68	95 74	85 65	84 61	82 60	81 63	85 65	89 66	90 67	87 62	88 64	96 72	84.3 61.0
ALTA	MAX MIN	80 59	74 57	76 55	76 59	82 53	79 62	72 51	70 53	76 55	84 57	88 63	86 66	75 60	73 55	81 53	84 62	91 65	85 62	81 64	92 67	83 62	81 65	86 65	80 64	87 60	88 64	87 60	85 65	90 73	82.2 60.6	
ALTON	MAX MIN	80 53	74 55	77 56	77 49	81 59	78 59	75 47	72 52	75 65	85 57	85 69	90 60	75 58	75 52	81 51	87 51	90 70	89 60	80 65	93 78	90 70	94 68	86 65	82 52	90 59	91 66	89 60	85 55	91 60	94 75	83.7 59.9
AMES 3SW	MAX MIN	84 67	78 60	81 56	79 57	82 51	83 60	75 51	68 51	76 54	86 55	87 60	90 65	79 65	76 63	83 52	85 59	90 59	84 68	89 66	94 69	86 67	85 59	94 65	79 63	85 65	85 69	87 68	85 64	87 71	93 71	83.8 61.5
ANAMOSA 1NW	MAX MIN	80 64	77 62	79 57	80 53	76 48	80 57	71 48	70 44	78 49	86 60	88 57	88 65	80 68	71 61	79 52	82 48	84 58	90 64	89 63	91 69	86 66	83 56	82 66	84 65	84 71	88 63	82 67	85 61	82 61	82 70	82.2 59.9
ATLANTIC 1E	MAX MIN	82 59	81 57	79 55	81 56	84 55	87 59	75 53	76 53	79 56	88 60	88 65	85 65	78 62	77 58	83 51	83 61	88 62	84 66	87 64	94 71	84 67	83 59	91 67	81 67	82 62	86 62	87 64	88 63	88 64	94 73	84.2 61.1
ATLANTIC AP CAA	MAX MIN	80 62	79 60	78 56	80 57	79 55	83 52	72 55	73 57	76 57	87 59	87 64	84 63	68 63	73 57	81 49	82 60	87 62	83 65	86 61	91 68	81 60	92 56	80 66	86 62	86 61	87 70	86 64	88 64	95 72	82.4 60.5	
AUDUBON 2S	MAX MIN	80 56	75 55	72 58	73 54	84 57	82 58	72 50	71 51	73 55	82 57	84 64	82 65	74 62	74 52	78 59	80 65	85 63	82 63	83 63	90 64	80 65	79 61	90 65	81 62	84 60	85 70	87 65	87 64	85 65	92 72	80.9 60.7
BANCROFT	MAX MIN	86 61	77 60	79 51	78 56	83 46	80 62	80 45	67 52	83 54	89 56	94 63	89 65	78 61	76 56	86 52	89 60	96 64	85 64	83 62	94 70	84 65	84 61	87 67	82 64	90 62	90 61	89 59	89 62	93 62	99 70	85.3 60.1
BEDFORD 1N	MAX MIN	82 61	80 50	78 57	78 59	85 64	85 60	78 52	73 53	74 57	80 56	82 63	83 65	79 64	73 62	79 54	80 59	84 61	81 67	85 68	90 68	86 66	80 63	90 63	86 65	84 62	84 78	86 70	84 63	85 66	90 71	82.1 62.2
BELLE PLAINE	MAX MIN	80 64	77 62	82 57	84 56	80 52	85 59	75 50	68 49	79 52	87 58	89 59	90 64	81 68	71 63	83 55	84 55	88 62	87 66	90 65	92 70	84 67	88 58	85 63	82 65	87 65	88 70	86 64	83 65	87 72	93 72	83.8 61.4
BELLEVUE L & D 12	MAX MIN	80 65	81 64	83 63	83 55	77 49	79 54	71 51	73 46	79 53	86 60	87 62	89 63	83 70	79 63	81 55	83 50	89 61	89 61	90 63	82 68	89 68	82 57	82 65	83 66	85 67	86 71	89 70	84 69	89 64	93 68	83.1 61.0
BLOOMFIELD 2N	MAX MIN	82 64	83 62	86 60	83 63	82 58	86 64	74 61	65 49	76 55	88 56	87 62	90 66	84 68	74 62	84 57	87 60	88 64	94 64	91 66	82 67	87 56	90 59	84.2 61.0								
BOONE	MAX MIN	86 61	81 61	80 58	80 62	84 54	84 63	76 52	68 53	77 52	89 61	92 66	80 68	77 65	84 54	87 63	93 63	85 68	89 61	97 61	86 74	88 68	96 62	79 64	88 69	88 75	88 70	86 69	90 68	96 73	85.6 63.7	
BRITT	MAX MIN	84 64	83 59	80 49	78 55	83 46	83 59	77 43	76 59	80 57	89 62	89 65	81 62	76 54	74 49	87 58	90 61	82 65	87 65	94 65	86 65	91 58	81 63	89 60	90 59	89 66	91 63	86 63	88 62	95 71	85.0 59.0	
BURLINGTON WB APT	MAX MIN	84 66	80 64	86 66	85 64	82 61	87 63	80 56	78 49	80 53	90 62	89 64	92 66	84 67	79 63	81 58	85 58	89 62	90 64	92 68	93 68	84 64	89 59	85 65	90 64	89 69	84 70	93 66	84 67	90 67	97 72	86.4 63.6
CARROLL	MAX MIN	84 58	79 58	79 53	77 59	82 52	84 59	77 51	71 52	78 52	88 55	90 63	89 67	78 63	75 58	85 52	85 62	92 63	84 65	88 67	96 71	88 66	83 65	94 63	81 63	88 68	90 64	89 66	87 65	91 72	95 72	84.9 61.1
CASCADE	MAX MIN	78 64	78 62	81 58	84 53	79 49	85 55	73 48	72 40	82 46	87 59	89 55	88 64	81 68	72 62	80 55	82 49	85 57	91 61	89 68	91 63	83 63	88 55	81 65	83 65	84 66	87 70	88 65	83 61	87 67	92 67	83.4 59.4
CASTANA 4E	MAX MIN	80 58	71 56	75 55	75 59	79 56	81 62	71 54	71 49	76 58	81 59	85 61	87 66	71 62	74 54	82 52	84 63	89 65	82 57	81 65	91 68	82 63	80 62	90 68	78 63	87 60	90 66	85 62	83 68	88 55	92 74	81.4 61.0
CEDAR RAPIDS NO 1	MAX MIN	80 64	78 62	81 58	84 57	79 51	83 60	74 48	73 46	79 51	87 59	89 65	87 68	83 63	71 54	82 52	85 60	86 64	90 65	89 70	90 67	83 67	85 66	84 64	83 66	86 66	85 72	89 64	84 67	93 64	93 70	83.6 61.1
CENTERVILLE	MAX MIN	82 63	80 61	83 60	82 60	81 57	86 64	81 55	72 46	73 57	85 65	86 65	86 65	84 66	76 56	83 64	86 68	88 66	90 66	89 78	89 69	89 66	90 59	88 64	85 67	88 69	85 68	88 66	89 67	93 73	84.5 62.7	
CHARITON 3E	MAX MIN	82 65	80 62	82 56	80 54	82 53	77 58	77 52	70 57	75 50	83 63	85 65	86 65	84 65	76 50	83 53	85 57	86 61	89 66	91 70	87 65	84 56	91 68	86 64	87 65	84 70	87 66	84 62	87 63	91 70	83.9 60.5	
CHARLES CITY	MAX MIN	80 62	77 60	79 55	76 55	80 49	78 55	72 48	67 50	80 54	88 62	88 66	88 66	75 59	74 54	81 58	83 59	88 63	90 69	89 68	93 68	82 67	82 64	82 65	85 66	86 65	87 67	83 69	88 64	94 73	82.4 61.6	
CHEROKEE	MAX MIN	82 57	74 57	76 49	76 58	80 48	79 59	74 46	68 50	77 56	85 55	87 58	87 67	80 60	75 50	82 51	85 61	92 66	78 60	82 63	93 70	85 61	83 59	88 64	80 58	88 60	90 65	88 62	85 66	92 74	82.8 59.1	
CLARINDA	MAX MIN	83 63	82 61	78 53	79 58	79 60	87 66	79 56	74 58	75 58	84 62	85 65	84 65	78 62	75 62	82 57	83 60	86 68	83 67	87 69	92 68	83 68	84 58	93 66	82 65	86 65	88 70	88 64	85 65	93 71	83.6 62.6	
CLARION	MAX MIN	81 66	79 60	80 50	76 54	82 47	79 57	74 47	66 48	79 54	84 61	88 63	87 64	81 60	77 47	82 52	85 61	89 67	80 62	87 62	92 67	83 67	93 59	82 64	80 63	85 63	86 68	88 66	84 66	93 73	83.0 60.0	
CLINTON NO 1	MAX MIN	84 64	79 62	83 67	84 58	79 54	86 58	75 54	73 50	79 58	88 65	89 62	80 65	82 71	75 62	80 56	82 62	83 68	89 65	90 68	90 65	83 68	86 67	85 65	81 68	85 68	85 72	89 69	82 68	91 71	83.8 62.5	
COLUMBUS JUNCTION	MAX MIN	82 65	82 63	85 61	82 60	80 56	84 60	76 55	75 48	79 55	87 64	87 66	89 68	82 67	74 58	82 53	84 61	86 64	90 65	91 69	92 68	86 57	86 66	85 64	86 68	85 73	85 65	90 66	83 66	87 71	94 71	84.5 62.7
CORNING 1W	MAX MIN	82 64	79 59	77 60	78 58	79 54	86 56	72 53	73 57	75 57	84 60	86 58	84 66	79 58	75 51	82 60	83 62	86 63	83 67	87 68	92 69	85 56	83 61	92 59	83 64	86 70	87 63	87 63	85 66	93 72	83.0 60.5	
COUNCIL BLUFFS 5NE	MAX MIN	81 63	81 60	80 56	75 61	79 56	88 60	80 54	74 55	78 59	85 60	87 60	86 67	80 65	74 57	82 51	84 62															

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DECORAH 2S	MAX MIN	77 61	77 59	81 48	79 50	78 41	78 51	68 36	68 42	77 48	85 51	92 51	89 62	72 62	67 58	80 48	82 49	85 55	87 60	91 61	92 72	84 66	84 51	84 61	85 62	83 63	85 63	88 57	81 64	85 53	94 66	81.9 55.7	
DELAWARE 2W	MAX MIN	78 62	79 60	81 66	82 55	77 47	82 57	70 47	71 42	81 49	82 54	89 57	89 63	79 56	69 59	80 56	82 52	85 63	90 63	88 67	92 68	82 64	86 67	81 63	81 65	85 63	88 69	89 63	82 65	86 62	91 68	82.6 59.7	
DENISON 2S	MAX MIN	83 57	77 58	77 52	78 57	81 53	81 61	73 51	74 50	71 57	81 52	90 61	88 66	77 52	73 54	82 51	83 60	89 65	86 68	86 70	94 76	82 64	81 61	92 69	81 65	87 61	90 67	87 78	85 65	88 65	94 73	83.0 61.3	
DES MOINES WB APT	MAX MIN	85 62	80 63	82 60	82 59	83 58	86 62	73 55	69 52	76 58	85 59	89 64	89 66	77 66	77 59	85 53	84 62	89 62	86 68	89 69	94 68	84 66	86 62	93 66	82 65	86 67	85 71	87 69	88 68	89 68	94 73	84.5 63.3	
DES MOINES WB CITY	MAX MIN	85 63	81 63	82 61	83 61	83 58	88 63	77 55	70 53	77 57	86 58	89 64	89 68	78 67	79 62	83 55	84 63	90 63	87 69	90 71	94 68	85 68	89 63	95 68	82 66	87 68	85 72	88 70	85 70	90 68	94 73	85.2 64.3	
DUBUQUE WB CITY	MAX MIN	77 66	81 64	82 63	83 59	77 56	82 62	70 53	73 46	80 52	85 62	89 61	88 69	80 69	69 60	80 57	82 54	85 64	89 66	89 69	91 72	83 67	87 62	83 66	83 66	85 65	88 67	90 74	90 71	83 69	87 66	93 72	83.5 63.5
ELKADER	MAX MIN	78 62	81 61	81 59	79 53	78 45	80 53	73 42	72 42	79 49	85 49	89 53	96 64	79 66	73 60	83 50	87 48	83 55	90 61	90 62	91 70	87 56	85 55	82 63	82 62	84 64	79 63	87 64	86 63	88 67	87 64	93 73	83.4 60.3
EMMETSBURG	MAX MIN	84 62	76 59	78 50	76 58	81 49	78 63	75 48	68 53	78 51	88 53	89 59	87 64	72 56	75 52	81 52	87 63	93 63	89 63	82 63	93 70	87 64	82 64	84 64	79 63	87 63	86 63	88 67	85 64	92 64	96 73	83.3 59.2	
ESTHERVILLE	MAX MIN	83 59	76 58	80 51	77 56	83 47	77 62	75 64	67 54	78 50	87 55	90 60	90 63	75 59	76 52	83 52	87 62	94 67	82 61	82 61	93 69	85 62	80 63	85 65	79 63	87 61	86 58	88 65	85 60	92 62	97 73	84.7 62.9	
FAIRFIELD	MAX MIN	85 66	83 64	80 60	86 63	81 58	87 65	75 53	72 49	78 51	87 58	89 63	90 67	79 68	79 68	82 57	85 55	88 59	89 65	91 65	92 68	83 67	88 61	86 66	86 64	88 66	89 71	83 66	90 67	83 65	90 73	82.3 59.7	
FAYETTE	MAX MIN	76 64	76 61	75 59	81 55	78 46	80 55	72 46	70 45	80 51	85 57	89 54	88 66	77 66	71 60	80 54	82 51	84 58	88 65	90 65	90 72	84 67	83 55	82 64	84 64	86 64	89 69	88 63	83 70	86 58	93 67	82.7 58.9	
FORT ST CITY	MAX MIN	82 62	76 60	79 47	76 53	81 42	77 61	74 45	66 49	81 54	85 56	89 61	87 63	76 63	78 57	83 47	87 58	92 61	82 63	86 61	91 69	84 66	81 55	83 65	80 63	84 61	86 58	90 66	83 66	88 63	95 71	84.0 61.5	
FORT DODGE	MAX MIN	83 60	78 61	79 53	78 58	84 49	80 61	74 48	67 53	77 53	88 53	90 64	89 66	77 64	79 59	84 52	86 58	92 64	78 64	86 69	95 72	83 67	83 64	82 64	82 64	88 64	89 66	91 69	84 65	88 67	96 74	83.9 62.0	
GLENWOOD 2E	MAX MIN	81 61	82 51	76 66	74 57	79 57	87 59	77 51	73 56	72 60	85 60	88 60	85 68	81 66	73 50	82 54	84 66	90 66	81 64	90 66	96 73	89 61	87 62	93 65	77 63	88 63	89 71	89 67	86 65	90 65	94 75	82.8 62.0	
GREENFIELD	MAX MIN	81 65	79 58	77 59	79 53	82 55	85 61	73 54	72 53	74 56	83 56	85 61	84 65	76 64	81 62	81 61	87 62	81 65	81 65	85 66	91 69	82 63	82 60	91 65	89 65	85 65	87 68	86 66	84 66	92 65	92 66	84.2 61.0	
GRINWELL	MAX MIN	79 62	78 61	83 59	83 57	81 53	85 60	75 50	88 48	78 52	85 59	88 60	87 64	83 62	75 63	84 50	82 59	88 60	85 67	90 68	92 70	89 66	88 57	90 65	88 59	84 64	85 70	87 66	87 65	87 65	92 70	82.9 60.5	
GRUNDY CENTER AVE	MAX MIN	79 64	78 58	80 55	79 58	81 49	82 61	72 45	66 50	77 50	87 58	87 60	89 65	82 62	77 53	81 56	81 60	89 66	88 66	92 72	83 67	82 58	82 63	87 62	78 64	84 64	88 68	86 65	87 68	86 64	93 65	82.2 63.3	
GUTHRIE CENTER	MAX MIN	82 65	77 60	76 58	80 60	78 60	83 64	77 52	74 60	76 61	84 57	85 63	87 62	77 64	80 60	82 54	87 63	81 64	87 64	88 69	91 65	84 70	81 67	82 62	90 67	84 65	86 72	85 68	88 67	86 65	92 72	83.5 61.4	
GUTTENBERG L AND D 10	MAX MIN	80 63	81 61	81 57	81 57	79 51	81 60	74 52	73 45	78 50	87 60	89 58	89 68	82 67	71 59	81 54	82 53	85 66	91 65	89 66	90 72	85 66	86 59	82 64	82 64	85 65	88 72	89 67	86 68	88 62	93 70	82.7 62.2	
HAMPTON	MAX MIN	80 66	77 61	80 54	76 58	81 59	77 62	72 48	69 51	78 51	86 60	88 65	88 66	80 64	73 62	82 53	83 60	89 61	90 62	85 65	91 72	88 68	80 63	85 64	80 64	85 65	88 68	87 68	83 68	87 64	94 73	82.6 62.5	
HARLAN	MAX MIN	79 68	81 60	75 57	75 60	81 57	83 61	79 55	72 54	73 58	84 59	85 63	85 67	78 64	72 59	82 51	83 61	89 64	84 63	84 64	92 71	88 66	82 60	92 67	77 64	86 62	88 71	85 66	85 65	85 65	93 72	84.7 60.3	
HAWARDEN	MAX MIN	78 57	74 55	78 49	77 55	82 49	82 58	75 48	70 53	77 57	85 57	88 60	90 66	76 57	76 54	84 64	90 67	93 68	87 58	84 65	97 67	84 60	84 62	89 67	83 68	95 60	94 58	89 65	89 60	93 67	98 76	84.2 61.3	
IDA GROVE 4S	MAX MIN	82 66	76 63	79 61	79 58	83 55	84 60	74 50	70 51	76 56	86 57	89 61	88 68	80 61	76 52	84 53	86 62	82 64	79 61	85 66	95 62	85 62	84 59	91 66	81 64	90 61	95 63	90 63	87 63	94 66	97 74	84.0 59.8	
INDEPENDENCE 2W	MAX MIN	84 62	81 60	80 55	80 57	79 50	81 58	75 45	79 45	78 51	87 60	90 59	88 63	84 66	71 59	80 55	83 54	87 58	91 66	90 66	91 71	87 65	85 63	83 69	81 66	84 68	89 71	86 70	89 69	87 66	89 62	86.3 63.3	
INDIANOLA	MAX MIN	88 66	82 61	82 58	83 58	84 55	87 62	76 53	70 50	78 55	88 61	87 65	90 61	87 64	77 56	85 60	89 58	90 60	87 66	91 66	95 71	87 63	87 69	95 66	86 68	86 71	89 70	88 69	87 66	90 62	95 72	83.4 57.1	
INWOOD 2W	MAX MIN	80 55	72 52	77 48	76 51	84 47	79 57	73 45	69 47	76 54	84 58	87 59	88 62	75 53	76 47	82 50	90 47	92 63	83 66	82 56	96 60	87 67	87 55	95 65	86 65	86 60	89 57	86 56	87 62	92 64	96 74	84.1 62.2	
IOWA CITY	MAX MIN	80 66	79 63	83 61	82 58	78 55	85 61	80 52	78 47	80 54	85 61	89 65	87 65	82 69	71 64	81 56	83 54	86 60	91 64	89 66	91 67	85 68	86 59	84 66	85 63	86 67	87 72	88 64	88 65	93 71	85.1 60.8		
IOWA CITY AP CAA	MAX MIN	82 66	80 63	85 60	83 58	79 55	85 58	77 51	75 46	80 53	89 59	89 58	89 64	82 67	72 64	83 54	85 52	88 59	93 62	91 64	93 67	84 64	86 57	87 66	86 63	87 66	85 68	91 60	86 65	88 64	93 70	82.1 60.4	
IOWA FALLS IN	MAX MIN	80 65	77 60	77 53	77 56	79 48	79 60	71 48	67 46	78 51	85 59	88 59	88 62	80 65	72 62	80 50	83 56	88 59	87 67	84 64	92 71	85 66	82 59	87 59	79 63	84 65	85 68	86 66	83 68	87 66	94 71	83.2 62.0	
JEFFERSON	MAX MIN	83 68	78 60	78 55	78 57	82 52	85 60	75 51	69 53	76 55	86 54	86 62	87 67	80 64	79 59	81 51	83 63	89 63	83 69	85 64	92 69	87 67	83 60	92 64	75 63	85 64	88 70	86 69	86 66	84 67	92 72	85.4 67.6	
KEOKUK	MAX MIN	82 66	78 64	84 68	82 70	82 66	85 68	81 62	76 53	79 59	86 65	86 68	88 69	83 72	80 69	80 63	85 63	89 66	92 69	90 75	92 71	85 68	88 62	85 68	90 72	89 71	83 68	90 71	85 68	91 71	95 78	81.5 63.5	
KEOSAUQUA STATE PK	MAX MIN	80 65	76 63	81 64	79 64	79 59	83 62	78 55	69 50	73 53	84 55	82 63	86 67	81 68	72 58	79 56	81 60	85 66	87 60	85 66	87 67	84 67	82 64	84 65	83 65	87 68	86 65	86 71	8				

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MAPLETON 5NW	MAX 82	80	76	76	82	81	73	72	76	88	89	88	72	74	83	86	91	80	82	92	85	80	90	78	80	91	88	83	88	95	82.7	
	MIN 59	56	51	60	54	59	54	51	58	57	60	68	61	55	62	69	67	58	67	64	63	67	68	64	58	66	64	65	66	74	61.5	
MAQUOKETA 5E	MAX 80	79	85	87	81	89	73	73	80	87	89	89	85	71	84	80	82	89	87	88	85	87	80	82	83	84	88	84	89	92	83.7	
	MIN 64	62	62	58	51	60	58	42	49	57	61	64	67	64	55	54	61	62	67	66	67	59	64	65	67	71	67	67	64	70	61.5	
MARSHALLTOWN	MAX 84	82	83	85	83	82	88	79	68	79	91	89	76	75	82	84	89	88	91	94	82	83	92	82	86	87	88	88	87	94	84.7	
	MIN 65	68	56	57	52	62	49	51	54	54	64	62	63	53	53	58	61	67	66	73	66	58	67	64	66	70	67	67	65	74	61.7	
MASON CITY 3N	MAX 80	77	80	75	81	77	73	65	80	85	91	88	77	77	84	86	92	85	90	93	82	81	82	73	85	86	88	82	87	95	82.6	
	MIN 64	60	50	55	45	61	45	51	52	60	64	66	64	60	48	61	61	66	63	71	67	59	64	64	63	60	66	67	62	73	60.4	
MASON CITY AP CAA	MAX 83	78	79	75	80	77	73	66	80	84	89	87	77	77	83	87	92	86	88	91	81	79	83	80	84	85	88	82	88	95	82.6	
	MIN 60	55	50	52	46	51	46	50	52	58	65	63	63	55	49	58	61	67	64	68	65	59	65	62	63	61	66	66	63	72	59.2	
MILFORD 4NW	MAX 80	74	76	75	81	74	74	68	76	84	87	88	72	74	80	86	91	82	81	93	83	77	84	80	85	82	86	83	89	93	81.3	
	MIN 60	58	49	54	49	59	49	54	55	55	61	64	57	50	51	62	65	58	62	70	61	62	66	60	60	60	66	61	61	74	59.1	
MILLERTON	MAX 81	77	82	81	80	85	79	69	73	82	86	85	80	75	80	81	84	85	89	91	86	84	90	85	86	82	86	85	87	90	82.9	
	MIN 64	61	60	60	57	64	53	50	55	55	60	64	65	65	53	56	60	64	69	69	75	62	67	64	64	67	69	68	65	72	62.2	
MISSOURI VALLEY	MAX 85	83	77	78	81	88	75	76	80	86	97	88	80	76	85	86	90	86	88	96	87	85	95	80	90	91	87	89	88	95	85.6	
	MIN 60	59	55	61	57	62	56	54	59	60	65	68	64	55	54	65	66	62	67	74	65	63	69	64	64	72	65	66	65	75	63.0	
MONMOUTH 4SW	MAX 79	78	83	81	72	84	78	74	80	88	89	89	89	70	76	83	85	90													82.3	
	MIN 62	60	60	53	50	55	50	41	42	62	57	63	68	63	50	61	59	60	72	68	67	65	57	61	64	68	67	64	63	67	60.0	
MOUNT AYR 2N	MAX 82	81	80	78	82	86	78	72	74	82	81	85	84	76	82	82	85	82	87	91	88	87	90	85	85	83	86	85	86	91	83.2	
	MIN 68	61	56	59	58	65	58	54	59	58	60	65	64	63	52	68	63	68	69	70	65	66	68	64	63	69	70	64	68	72	63.6	
MOUNT PLEASANT	MAX 83	78	88	88	83	84	80	80	79	88	90	88	81	76	82	87	88	92	90	91	87	88	87	87	89	88	89	88	91	94	86.1	
	MIN 65	64	62	63	58	62	54	49	55	53	63	68	68	68	58	57	60	65	67	67	67	57	64	64	68	72	64	67	66	75	63.0	
MUSCATINE NO 1	MAX 83	81	86	86	82	88	77	77	81	89	89	88	84	78	84	85	88	91	91	93	86	88	86	88	89	85	90	85	90	85	86.1	
	MIN 67	64	63	60	57	60	52	48	55	60	64	67	69	67	57	54	63	66	68	69	68	59	66	65	67	74	68	67	66	72	63.4	
NEW HAMPTON	MAX 79	77	80	76	80	80	74	67	79	83	87	89	75	71	81	82	86	90	87	91	82	82	82	81	84	85	87	83	88	93	82.0	
	MIN 56	57	48	52	42	52	43	40	48	56	55	60	60	56	49	51	56	62	63	67	62	54	58	60	60	60	63	56	66	55.7		
NEWTON	MAX 79	79	83	83	83	86	77	72	75	85	88	87	80	81	83	83	87	86	90	92	85	89	92	84	86	87	88	86	88	93	84.6	
	MIN 65	61	61	60	55	62	52	51	61	70	64	66	66	65	63	67	68	68	70	76	70	72	68	68	64	72	68	68	68	73	65.4	
NORTHWOOD	MAX 81	76	78	75	80	78	73	71	80	84	89	85	77	75	81	84	90	86	86	91	88	82	82	79	83	86	87	83	88	94	82.4	
	MIN 61	60	51	57	45	62	44	50	53	59	61	63	62	58	52	57	61	64	64	70	66	60	63	63	63	60	66	65	60	71	59.7	
OAKLAND 2E	MAX 80	79	77	78	78	86	76	76	75	84	85	87	81	75	81	87	89	85	88	93	88	83	92	78	85	89	82	86	85	93	83.4	
	MIN 64	60	56	57	55	58	54	53	56	58	59	67	64	59	48	62	64	63	67	72	67	58	67	63	61	72	61	63	65	73	61.5	
OELWEIN	MAX 85	75	80	79	77	80	74	72	82	84	90	87	79	70	80	85	88	91	92	93	86	85	82	80	86	88	90	86	88	95	83.6	
	MIN 67	61	54	58	50	59	52	47	54	61	57	67	67	60	55	56	61	67	70	74	66	58	64	64	65	72	62	71	64	72	61.8	
ONAWA	MAX 84	80	77	78	85	86	75	75	78	86	90	91	75	77	86	89	93	86	85	95	86	84	94	84	92	94	91	89	91	97	85.8	
	MIN 58	54	50	57	55	58	55	52	58	57	61	66	60	52	48	61	63	56	64	68	61	58	65	63	56	62	62	63	70	59.2		
OSAGE	MAX 78	76	78	74	79	76	70	67	79	83	88	86	76	74	80	83	88	88	86	91	84	80	78	81	84	84	86	80	86	93	81.2	
	MIN 52	60	50	54	45	61	46	47	50	58	59	62	64	61	54	52	61	66	65	74	66	58	62	63	60	60	65	67	60	71	59.1	
OSCEOLA	MAX 85	80	81	81	81	88	80	72	77	85	88	86	80	77	83	84	89	86	89	89	89	86	94	88	83	88	87	88	87	97	85.0	
	MIN 66	61	60	60	58	63	54	52	56	58	63	65	64	67	55	58	63	67	71	70	65	63	67	64	63	64	69	64	65	64	62.6	
OSKALOOSA	MAX 81	81	83	81	82	86	75	70	76	86	87	87	83	78	83	81	87	90	89	92	83	87	91	85	87	86	87	85	87	92	84.3	
	MIN 63	63	60	58	57	62	55	51	55	57	62	65	68	67	56	57	61	67	68	71	67	59	67	64	66	72	67	67	63	72	62.9	
OTTUMWA 1WSW	MAX 82	80	84	84	83	89	80	72	77	86	88	89	82	76	83	84	87	89	89	89	89	85	90	86	88	84	87	85	85	93	84.8	
	MIN 65	64	61	61	59	62	53	50	56	54	62	65	69	67	56	56	60	65	64	67	66	57	66	66	65	71	65	65	70	62.4		
OTTUMWA AP CAA	MAX 81	80	81	82	81	85	74	72	75	84	86	88	77	74	81	83	87	88	89	91	85	86	92	85	86	82	89	84	88	94	83.7	
	MIN 64	63	63	63	60	63	55	49	55	60	66	67	68	65	57	62	63	68	70	68	66	63	65	64	67	70	67	67	73	63.9		
PERRY 2SE	MAX 85	81	81	79	84	84	76	70	76	85	87	87	78	77	84	83	89	83	86	91	86	84	94	75	85	87	87	84	87	93	83.6	
	MIN 67	60	56	57	53	60	52	53	50	54	60	67	60	61	50	63	60	69	65	70	66	59	64	63	65	65	68	67	65	72	61.4	
POCAHONTAS 2SE	MAX 80	78	79	79	83	81	75	67	79	91	88	89	77	79	83	87	94	77	87	95	83	88	90	79	88	90	90	87	94	97	84.5	
	MIN 60	60	49	61	47	60	46	53	56	58	71	67	60	54	56	60	62	56	62	70	61	58	64	59	60	60	67	65	64	69	59.8	
PRIMGHAR	MAX 83	74	76	76	81	77	75	71	76	85	87	89	85	74</																		

DAILY TEMPERATURES

IOWA
JUNE 1949

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
STATE CENTER	MAX	84	79	80	79	80	80	74	68	78	85	89	87	77	70	83	84	88	87	89	95	90	85	92	80	84	85	88	86	88	93	83.6	
	MIN	64	64	59	62	59	63	49	52	57	59	65	67	67	63	55	60	63	66	67	73	67	64	67	65	65	70	69	69	70	75	63.8	
STORM LAKE 2E	MAX	79	73	75	75	79	77	72	67	77	84	85	86	72	74	83	87	93	84	82	93	83	80	88	79	87	89	85	83	92	93	81.9	
	MIN	58	58	50	62	50	61	49	51	54	53	64	68	60	54	54	60	65	62	62	65	61	61	64	65	61	62	64	66	66	75	60.2	
TINGLEY	MAX	83	79	80	79	81	85	78	74	76	84	86	85	83	77	81	82	86	83	87	91	83	84	90	85	85	83	87	85	86	92	83.3	
	MIN	66	59	57	57	55	62	54	51	56	55	60	63	60	60	49	56	60	65	68	67	64	59	64	62	60	67	68	60	64	70	60.6	
TIPTON	MAX	82	79	84	84	78	87	78	73	80	87	92	89	83	72	82	84	87	91	90	92	84	87	86	86	85	84	90	84	91	95	84.9	
	MIN	66	62	61	58	50	58	48	43	48	58	63	66	64	65	54	54	58	65	68	68	66	58	64	63	65	72	64	66	65	68	60.9	
TOLEDO	MAX	80	76	80	81	79	82	72	68	77	85	89	90	84	72	80	83	87	84	90	90	85	84	83	80	85	85	86	84	86	93	82.7	
	MIN	63	62	57	56	52	60	49	49	53	59	59	64	67	61	55	57	61	66	67	71	67	60	67	63	65	71	66	66	65	72	61.7	
TRIPOLI	MAX	81	77	80	80	79	79	74	69	82	85	89	89	85	73	81	83	87	92	89	92	88	83	81	81	85	86	89	84	89	94	83.5	
	MIN	64	61	53	57	49	61	48	47	53	61	59	61	66	60	59	57	61	67	67	72	67	59	63	64	66	68	66	70	62	72	61.3	
VINTON	MAX	83	78	81	82	81	82	74	68	81	88	90	91	80	84	78	88	90	92	93	95	86	86	88	82	86	88	92	89	88	95	85.3	
	MIN	62	62	56	50	62	61	49	49	53	56	67	64	74	63	52	52	60	62	66	73	68	67	63	64	66	64	65	64	65	72	61.7	
WASHINGTON	MAX	81	79	84	83	81	87	76	75	80	86	88	89	83	76	83	84	87	91	91	92	85	88	85	86	88	82	90	86	89	93	84.9	
	MIN	65	63	62	61	58	62	54	59	61	59	64	66	69	67	58	55	60	65	67	69	68	59	66	64	67	73	65	68	67	72	63.8	
WATERLOO	MAX	79	75	77	78	79	79	72	77	78	87	87	79	72	79	82	87	89	89	90	85	83	82	80	83	85	87	85	86	92	82.1		
	MIN	64	61	55	57	57	51	49	49	53	60	59	65	67	61	54	56	62	67	67	73	67	59	65	63	65	70	66	68	64	72	61.5	
WAUKEE	MAX	86	80	82	83	82	88	80	70	76	87	90	89	80	79	82	84	86	85	90	95	86	90	96	82	86	85	88	88	91	94	85.3	
	MIN	69	64	60	61	58	63	55	53	57	58	64	68	67	69	55	62	60	69	70	68	68	64	70	66	68	74	70	70	68	73	64.7	
WAUKON	MAX	74	73	80	79	76	76	69	68	76	83	88	87	73	68	78	79	82	86	88	89	84	82	80	83	78	85	85	80	84	91	80.1	
	MIN	60	56	49	53	44	53	46	40	48	53	56	61	61	54	49	50	53	54	59	68	52	54	58	59	61	62	59	61	57	66	55.2	
WEBSTER CITY	MAX	83	81	80	77	84	82	75	69	79	88	89	90	81	78	85	86	92	87	87	95	87	84	95	80	88	88	89	88	89	95	85.0	
	MIN	67	61	54	54	47	59	49	53	55	51	59	63	65	61	47	62	62	68	63	70	63	57	65	64	65	67	69	66	67	72	60.8	
WILLIAMSBURG	MAX	78	77	80	80	78	82	72	70	75	82	85	86	80	71	79	80	85	85	87	89	83	85	85	82	83	82	86	81	84	91	81.4	
	MIN	64	63	62	60	56	62	53	47	53	60	63	65	69	66	58	55	62	65	65	65	66	59	65	63	63	71	64	66	65	71	62.2	
WINTERSET	MAX	83	80	80	80	80	85	83	72	76	83	85	86	84	77	82	83	86	85	87	91	89	85	92	88	86	86	88	87	87	92	84.3	
	MIN	68	62	59	60	57	63	55	52	59	58	63	68	65	62	53	62	63	70	63	70	66	63	68	64	66	71	69	63	67	72	63.4	
WOODWARD 7N	MAX				78	83	83	75	69	74	83	86	88	78	77	83	83	88	82	86	92	86	84	94	80	85	86	85	85	87	94	83.5	
	MIN				58	53	62	52	52	57	55	60	66	65	62	53	61	62	68	65	71	66	60	66	63	65	72	69	65	67	72	62.5	

Delayed Data

January 1949 MASON CITY AP CAA	MAX	20	25	34	35	21	35	42	40	25	17	23	29	37	37	39	28	14	21	5	14	16	13	32	15	4	11	16	12	5	9	23	22.2
	MIN	15	19	25	20	9	17	30	25	4	7	17	16	18	17	28	0	0	5	-9	-4	-11	-12	12	-2	-3	-1	0	-6	-15	-11	-3	6.7
March 1949 CRESTON	MAX	35	37	45	57	50	41	44	41	33	31	31	38	33	22	25	36	35	27														
	MIN	10	22	30	31	37	27	23	33	24	19	19	21	22	15	4	22	20	18														
KNOXVILLE 2 W	MAX	40	43	44	59	60	41	48	49	43	36	32	38	48	42	31	37	37	35	36	66	62	62	42	70	70							46.8
	MIN	9	22	30	34	35	29	21	34	27	21	20	16	22	18	10	24	17	19	19	27	35	33	30	38	37							25.1
May 1949 SARATOGA 2 E	MAX																			76	69	59	59	64	63	59	66	65	66				
	MIN																			56	46	44	46	48	43	33	41	34	42				

EVAPORATION AND WIND MOVEMENT

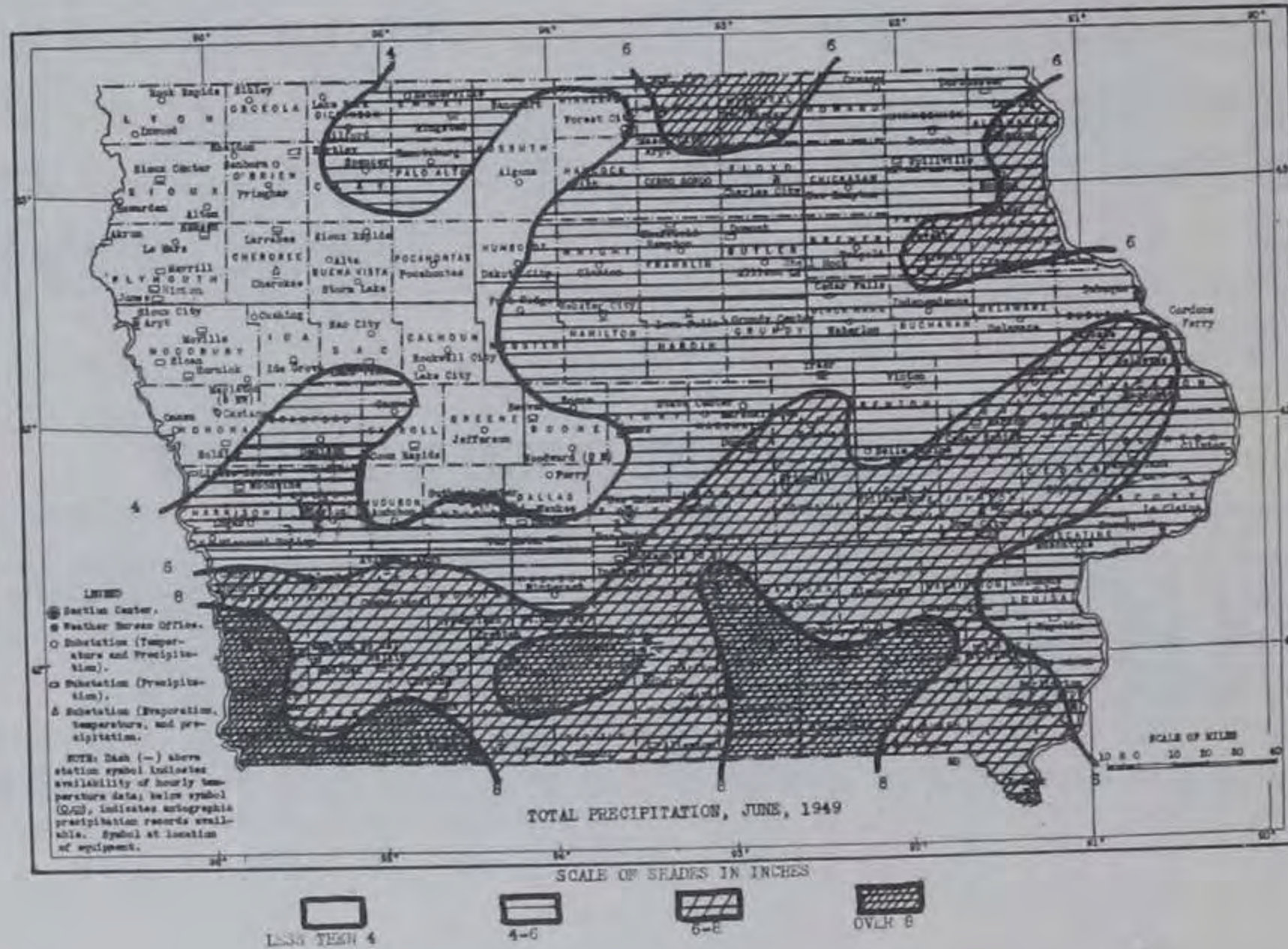
Table 6

Station		Day of month																															Total	Departure from normal
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ames 3 SW	EVAP	.28	.23	.18	.22	.27	.34	.33	.20	.18	.22	.29	.33	.37	.08	.27	.39	.36	.12	.20	.36	.35	.29	.35	.11	.24	.20	.15	.38	.24	.34	7.57		
	WIND	147	130	9	12	24	45	48	86	48	27	24	87	33	26	18	89	82	20	60	72	39	47	82	50	61	30	48	17	50	65	1576		
Cherokee	EVAP	.41	.11	.33	.20	.28	.29	.21	.07	.07	.20	.37	.29	.18	.18	.28	.31	.44	.13	.08	.19	.29	.20	.19	.14	.29	.26	.15	.23	.12	.10	6.57		
	WIND	81	54	17	43	50	41	17	86	43	41	16	89	53	32	45	120	105	53	45	74	20	64	12	43	63	33	58	41	58	93	1590		
Iowa City	EVAP	.11	.22	.17	.26	.31	.23	.30	.22	.23	.24	.24	.25	.13	.14	.25	.21	.27	.20	.36	.31	.36	.26	.24		.16	.13	.17	.14	.23	.29	6.88		
	WIND	30	81	15	29	36	35	42	32	22	14	13	33	28	55	32	18	28	10	45	43	71	26	91	63	31	23	37	30	19	39	1071		
Norwich 2 E SCS Farm	EVAP			.12	.13	.19	.28	.23	.19	.18	.13	.33	.22	.26	.25	.23	.36	.23	*	*	.71	.32	.34	.17	.32	.14	.29	.28	.18	.42	.27	7.25B		
	WIND	318	64	16	6	24	13	32	50	48	17	12	45	26	71	37	46	68	21	55	34	49	24	80	36	32	56	58	52	20	52	1462		

SOIL TEMPERATURES AT AMES, IOWA
JUNE, 1949

Temperature	4 feet above ground	Soil Depth						
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches	72 inches
Average 7 a.m.	68.2	69.3	69.0	70.9	71.1	64.7		
Average 12 noon	77.2	83.9	83.4	73.7	70.5	65.0		
Average 7 p.m.	75.6	81.4	80.8	78.3	72.0	64.9	57.9	54.6
Highest	94	99	95	87	78	68	62	58
Date	20+	30	30	30	30	22+	30	30
Lowest	51	60	61	63	66	62	54	52
Date	5+	8	15	3	2+	1+	1	1
Number of days with temperature								
0° or lower	0	0	0	0	0	0	0	0
24° or lower	0	0	0	0	0	0	0	0
32° or lower	0	0	0	0	0	0	0	0
40° or higher	30	30	30	30	30	30	30	30
50° or higher	30	30	30	30	30	30	30	30
60° or higher	30	30	30	30	30	30	9	0
90° or higher	5	9	5	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°. Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.



STATION INDEX

IOWA
JUNE 1949

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	
							Temp.	Precip.										Temp.	Precip.			
Afton	0064	Union	9 41 02	94 12	1200	6P	6P	Fred E. Lamb	2 3 5	Maquoketa 5 mi. N	5131	Jackson	12 42 02	90 35				5P	5P	Otto J. Bisinger	2 3 5	
Akron	0088	Plymouth	1 42 49	96 33	1153	6P	6P	Orlan C. Moore	3	Marion 4 mi. NE	5163	Linn	4 42 03	91 33				5P	5P	Hybrid Seed Corn Co	3 4	
Albia	0112	Monroe	6 41 02	92 48	949	8P	7A	Arthur L. Freed	2 3 5	Marshalltown No. 1	5193	Marshall	10 42 03	92 54			880	8P	Closed	6-1-49		
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5	Marshalltown	5198	Marshall	10 42 04	92 56			4P	8A	Raymond H. Hoopes	2 3 4 5		
Allerton	0149	Wayne	9 40 43	93 23				Herman K. Reddy	3 4	Mason City 3 mi. N	5230	Cerro Gordo	4 43 11	93 12			1148	8P	Am. Cry. Sugar Co.	2 3 5		
Allison	0157	Butler	4 42 46	92 47	1060	7P	7P	D. Teillinghulsen	2 3 5	Mason City AP CAA	5235	Cerro Gordo	4 43 09	93 20			1194	MID	MID	Airways Com. Sta.	2 3 4 5	
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Merrill 5 mi. W	5418	Plymouth	7 42 43	96 20				8A	Art. Rusted	3		
Alton	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Milford 4 mi. NW	5403	Dickinson	18 43 23	95 11			1402	7P	7P	A. C. McKinstry	2 3 5	
Assess 3 mi. SW	0205	Story	21 42 00	93 39	1004	7P	7P	Charles N. Brown	2 3 4 5 8	Millerton	5317	Wayne	3 40 50	93 18			1070	6P	6P	J. C. Davis	2 3 5	
Asamos 1 mi. NW	0213	Jones	27 42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Missouri Valley	5584	Harrison	3 41 33	95 54			1068	7P	7P	S. William Sorenson	2 3 4 5	
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	Monmouth 4 mi. SW	5622	Jones	12 42 03	90 55			870	7P	7P	Arnold Bisinger	2 3 5	
Atlantic AP CAA	0369	Cass	16 41 24	95 03	1152	MID	MID	Airways Com. Sta.	2 3 4 5	Monona	5630	Clayton	14 43 03	91 22				922	6P	6P	Mrs. Anna M. Welter	3 4
Audubon 3 mi. S	0365	Audubon	16 41 42	94 57	1297	6P	6P	Ralph E. Ribby	2 3 5	Monroe	5638	Jasper	6 41 31	93 06						J. A. Dibel	2 3 5	
Augusta	0389	Des Moines	21 40 46	91 17	522	3A	3A	Glen Wood	3	Morse	5732	Johnson	10 41 48	91 25						Margaret H. Miller	3 4	
Bancroft	0463	Kossuth	6 43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Morse 1 mi. NE	5737	Johnson	10 41 48	91 25						Lawrence J. Wall	3 4	
Bartlett 3 mi. E	0493	Fremont	26 40 53	98 44				R. L. Kilpatrick	3	Morse 4 mi. SEW	5742	Johnson	10 41 41	91 28						L. J. Fuhrmeister	3 4	
Beaver 1 N	0549	Boone	8 42 03	94 08				Wilfred E. Hunter	3 4	Mount Ayr 3 mi. N	5769	Ringgold	9 40 44	94 14			1214	6P	6P	H. L. Cornelison	2 3 4 5	
Bedford 1 mi. W	0576	Taylor	28 40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Mount Pleasant	5796	Henry	21 40 57	91 32			730	6P	6P	A. M. Patterson	2 3 4 5	
Belle Plaine	0600	Seneca	10 41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Moville	5823	Woodbury	11 42 29	96 04						Elmer W. Widmark	3 4	
Bellevue Lock & Dam 12	0608	Jackson	14 42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Muscataine No. 1	5837	Muscataine	14 41 26	91 03			680	7P	7P	F. J. Bauerbach	2 3 4 5	
Blockton 2 mi. S	0745	Taylor	19 40 36	94 29	1081	5P	5P	Glenn A. Cobb	3	Muscataine No. 2	5842	Muscataine	14 41 25	91 03			546	7A	Clifford McKee	3		
Bloomfield 2 mi. N	0753	Davis	8 40 47	92 26	825	7P	7P	Mrs. Leo Foster	2 3 5	Muscataine 6 mi. NW	5852	Muscataine	14 41 29	91 07						Closed	2-23-49	
Boone	0807	Boone	8 42 04	93 53	1236	6P	6P	E. G. Kolb	2 3 5	New Hampton	5952	Chickasaw	27 43 04	92 19			1156	7P	7P	Loddy Redlicka	2 3 5	
Britt	0923	Hancock	10 43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Newton	5952	Jasper	21 41 43	93 04			950	7P	7P	Al A. Scheel	2 3 5	
Burlington WB Airport	1063	Des Moines	14 40 47	91 06	695	MID	MID	U.S. Weather Bureau	2 3 4 5	North English	6076	Iowa	4 41 29	93 05			785			Ernest E. Andrews	3 4	
Carroll	1233	Carroll	20 42 04	94 52	1280	7P	7A	Ben H. Schenkelberg	2 3 5	Northwood	6103	North	4 43 27	93 13			1223	7P	7P	Charles A. Walker	2 3 5	
Cascade	1257	Dubuque	12 42 18	91 00	880	7P	7P	C. J. Weiers	2 3 4 5	Norwich SCS Exp Farm 2E	6119	Page	22 40 45	95 12			1132	7P	7P	Soil Cons. Service	2 3 4 5 6	
Cedar 4 mi. E	1277	Monona	11 42 04	95 49				Bob Zimmerman	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16 41 19	95 23			1150	6P	6P	Ward D. Reineke	2 3 5	
Cedar Falls	1300	Black Hawk	4 42 32	92 27	875	7P	7P	K. J. Cable	3	Oakland 2 mi. E	6186	Johnson	10 41 43	91 24						Ed. Kadera	3 4	
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster	2 3 5	Oelwein	6200	Fayette	27 42 40	91 55			1036	8P	8P	Milo M. Frame	2 3 5	
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40				C. M. Simon	3	Osawa	6243	Monona	15 42 02	96 06			1050	7P	7A	W. J. Oliver	2 3 5	
Centerville	1354	Appanoose	5 40 43	93 53	1013	7P	7P	Earl McIntire	2 3 4 5	Osage	6305	Mitchell	4 43 17	92 46			1170	6P	6P	L. J. Laaprecht	2 3 5	
Chariton 3 mi. E	1394	Lucas	5 41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Oscola	6316	Clarke	6 41 02	93 46			1136	6P	6P	Ray A. Kerns	2 3 5	
Charles City	1402	Floyd	4 43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Oskaloosa	6327	Mahaaka	6 41 17	92 40			813	8P	8A	Cliff. Bergtresser	2 3 5	
Cherokee	1442	Cherokee	11 42 45	95 33	1358	7P	7P	J. Earl Wirth	2 3 4 5 6	Ottumwa 1 mi. WSW	6388	Wapello	6 41 01	92 26			649	7P	7P	C. L. Minkash	2 3 4 5	
Clarion	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Ottumwa AP CAA	6399	Wapello	6 41 05	92 27			842	MID	MID	Airways Com. Sta.	2 3 4 5	
Clinton	1541	Wright	2 42 44	93 44	1170	7P	7P	George Reeder	3 5	Ottumwa	6391	Wapello	6 41 00	92 24			620	7A	7A	Winifrey Kincaid	3	
Clinton No. 1	1635	Clinton	14 41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5	Perry 2 mi. SE	6566	Dallas	20 41 51	94 08			975	7P	7P	Eugene M. Hartis	2 3 5	
Clinton No. 2	1640	Clinton	14 41 50	90 11				David M. Swift	3	Pochantas	6719	Pochantas	6 42 44	94 40			1228	5P	5P	Thomas A. Mc Nehon	2 3 5	
Columbus Junction	1731	Louisa	10 41 17	91 22	595	6P	6P	Alice Best	2 3 5	Pringhar	6800	O'Brien	11 43 05	95 38			1517	6P	6P	K. A. Ballard	2 3 5	
Cora Rapids	1793	Carroll	20 41 51	94 39				Charles W. Smith	3 4	Red Oak	6940	Montgomery	16 41 01	95 13			1077	6P	MID	Clarence M. Totty	2 3 5	
Corning 1 mi. W	1833	Adams	17 41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16 41 01	95 14						Mrs. E. M. Conard	3	
Council Bluffs 6 mi. NE	1888	Pottawattamie	41 20	95 49				Mrs. H. O. Crane	2 3 5	Remson	6975	Plymouth	7 42 49	95 58						Municipal P. & L. Pl.	3 4	
Council Bluffs 5 mi. NE	1889	Pottawattamie	41 19	95 49				Perry C. Crandall	2 3 5	Ringsted	7058	Emmet	6 43 18	94 30						H. C. Christiansen	3 4	
Cresco	1954	Howard	23 43 23	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Riverton	7085	Fremont	16 40 41	95 35			920	7P	7P	William Stubbs	3	
Creston	1962	Union	19 41 03	94 22	1300	7P	7A	Nellie Spangler	2 3 5	Rock Rapids	7147	Lyon	1 43 26	96 10			1341	7P	7P	George Ravelling	2 3 5	
Cumberland 3 mi. NW	2007	Cass	17 41 18	94 55	1225	6P	6P	Carl E. Pollock	3	Rockwell City	7161	Calhoun	20 42 24	94 37			1223	7P	7P	F. C. Heitelspacher	2 3 4 5	
Cushing 3 mi. NE	2026	Ida	11 42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sac City	7312	Sac	20 42 26	94 59			1274	8P	8P	W. Floyd Weary	2 3 5	
Dakota City	2037	Humboldt	6 42 44	94 12	1133	7P	7P	H. S. Brandgard	2 3 4 5	Saint Ansgar 2 mi. NW	7326	Mitchell	4 43 24	92 56						Donald H. Cowell	3 4	
Davenport WB City	2069	Scott	14 41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5	Saint Charles	7340	Madison	6 41 16	93 47						Rose E. Wise	3 4	
Decorah Dry Run	2110	Winneshiek	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Sanborn	7386	O'Brien	7 43 11	95 38			1552	7P	7P	Miss Susie O'Dow	2 3 5	
Decorah 2 mi. S	2112	Winneshiek	24 43 13	91 47	880	7P	7A	Charles Carlson	2 3 5	Sheffield	7372	Franklin	4 42 54	93 13						Richard J. Galvin	3 4	
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Sheldon	7594	O'Brien	7 43 10	95 51			1418	7P	7P	Ross E. Forward	2 3 5	
Denison 1 mi. S	2171	Crawford	4 42 00	95 22				E. W. Hugg	2 3 5	Shell Rock	7602	Butler	4 42 43	92 35						Elmer J. Apfel	3 4	
Derby	2195	Lucas	5 40 56	93 27				Lloyd A. Kirk	3 4	Shenandoah	7613	Page	16 40 46	95 33			974	6P	6P	Earl May Seed Co.	2 3 5	
Des Moines WB Airport	2203	Polk	6 41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5	Sibley	7664	Oscola	1 43 24	95 45			1494	6P	6P	R. D. Stewart	2 3 5	
Des Moines WB City	2208	Polk	6 41 35	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5	Signourney	7678	Keokuk	21 41 20	92 12			780	7P	7A	Grace L. Sanderson		

REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

-	No record.
+	And also on later dates.
*	Amount included in following measurement, time distribution unknown.
//	Gage is equipped with a windshield.
6	Precipitation measured at 6-hourly intervals, no recording gage.
B	Adjusted to a full month.
E	Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
M	One or more days of record missing; see Table 5 for detailed daily record.
R	Station equipped with recording gage only.
T	Trace, an amount too small to measure.
V	Includes total for previous month.
Z	Hourly amounts from a recording gage at the same site may be found in Table 4.
SS	This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

CORRECTIONS

November 1948, Cascade, Table 4, delete WB Airport from station name.

Cedar Rapids, Table 2, average temperature should be 40.3 instead of 40.1, departure should be 2.3 instead of 2.1, highest temperature should be 69 on the 15th instead of 67 on the first, and number of days with minimum of 32° or below should be 16 instead of 17.

Cedar Rapids, Table 5, on 8th minimum temperature should be 39 instead of 32, on 15th maximum temperature should be 69 instead of 62, average maximum should be 47.9 instead of 47.6, and average minimum should be 32.7 instead of 32.5.

Le Claire, Table 3, total precipitation should be 1.78 instead of 1.38.

Oelwein, Table 2, total snow should be Trace.

December 1948, Britt, Table 2, total snow should be 13.7.

Decorah 2 S, Table 2, total snow should be 8.6.

Keokuk Lock & Dam 19, Table 2, total snow should be 4.4.

Knoxville, Table 2, total snow should be 14.0.

Perry 2 SE, Table 2, total snow should be 9.1.

Tipton, Table 2, total snow should be 12.5.

Woodward 7 N, Table 2, total snow should be 5.4.

January 1949, Table 1, lowest temperature for 1949 should be -31 instead of -26.

Elkader, Table 2, date of lowest temperature should be 30th instead of 20+.

May 1949, Oelwein, Table 2, total precipitation should be 2.10 instead of 2.13, departure should be -2.00 instead of -1.97, and number of days with .01 or more should be 12 instead of 13.

Oelwein, Table 3, precipitation on 31st should be 0 instead of .03 and total should be 2.10 instead of 2.13.

W.B.O., Kansas City, Mo. -- 8-12-49 -- 1170

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

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In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

JULY 1949

Volume LX No. 7



C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of July continued the warm and above normal temperature pattern that had persisted since early in May. Rainfall amounts for July were extremely variable so that the state average of 3.47 inches, which was near normal, did not have too much significance. In general an area covering about fourteen counties in central and northeast Iowa received monthly amounts of less than two inches so that crop prospects there had declined somewhat. Also, more than one-half of the reporting stations received less than normal rainfall for the month. The heavier concentration of moisture was in several south central and several northwest counties and in the extreme east along the Mississippi River. Crop prospects were as variable as the distribution of rainfall. The localities that received significant showers during July maintained excellent crop conditions, while in the dry areas in central Iowa the moisture supplies had reached the critical stage and the corn had suffered some damage.

The last two days in June and the first eight days in July were a period of hot and humid weather. Afternoon temperatures were above the 90° mark each day with peak readings around the 100° mark from June 30 through July 4. The highest reading during this period and also for the month was a temperature of 100° at Burlington on the 3rd and at Britt on the 6th. Only a scattering of local showers was reported during this heat wave. The most significant rains occurred over portions of the four northwest counties bordering the Big Sioux River where amounts ranged from one to two inches. These showers were particularly welcome since the June rains over that area were considerably below the normal amounts. No rain was reported from localities in a wide belt extending southward from Emmet, Kossuth, and Winnebago counties to the southern third of the state. Nevertheless, the warm humid weather was ideal growing weather for the corn with some of it growing as much as five inches a day. Farmers had to work at top speed to "lay by" the corn. The Department of Agriculture reported that 96% of the corn was "laid by" by July 9 which compared to 88% a day later in 1948. Also, the Department reported that 77% of the corn had tasseled by July 9 which is the earliest date that tasseling percentages had ever been determined.

A cool Pacific high changed the weather pattern on July 9 and for the remainder of the month, the temperature rarely exceeded the 90° mark. The highest temperatures during this period occurred on the 18th, 24th, 25th, and 28th, with readings in the low nineties during the afternoon. Except for a few local showers in northern Iowa on the 13th, the period, 10th through the 17th, was rainless. By then, rainfall deficiencies were most marked in the central, north central, and eastern portions of the northwest and west central districts. This dry period saw the small grain harvest over one-half completed and preliminary reports indicated that yield and test weights were lower than in 1948. Also, by mid-month, the winter wheat harvest in southwest Iowa was nearly completed.

Showers and thunderstorms on the 17th, 19th--20th, and 25th--26th restored the moisture deficiencies over a good portion of the state. On the night of the 17th, the showers were generally concentrated in a triangular area from Allamakee to Wapello to Winnebago counties. At least one-half inch of moisture fell over this area with local areas receiving one to two inches. Little or no rain fell outside of this area. On the 19th--20th, the showers were state-wide. Nevertheless, some areas in the northwest and north central and central areas received less than one-half inch. Downpours of two to nearly four inches were reported in Cass, Adair, and Union counties in the southwest and in Jones, Jackson, and Clinton counties in the extreme east. At Clinton, Iowa, over 3 inches of rain fell from 2 A.M. to 6 A.M. on the morning of the 21st, causing considerable local flooding in the city. Unofficial reports stated that DeWitt in Clinton county received 4 1/2 inches and Toronto, also in Clinton county, received 6 inches. Small streams throughout the area were flooding the lowlands, but the amount of damage was small.

Again on the 25th--26th, scattered thundershowers were reported but rainfall amounts varied greatly. No rain or rain less than one-tenth of an inch was reported from localities in the southern third of the state and in the northeast quarter. The most general showers occurred in the northwest, where unofficially over four inches fell in southern Palo Alto and Kossuth counties and also locally in Dickinson, Osceola, and Muscatine counties. The Department of Agriculture estimated that 80% of the corn tasseled by July 23 as compared with 58% a year ago. A week later, on July 30, it reported that the corn crop had passed the critical pollinating stage with 80% silked. This figure compares with 70% on this same date last year and 50% in 1946. Also, in comparison, the late crop in 1947 had just started to silk by the end of July. With prospects for early maturity this year, the probability of frost damage had been greatly reduced.

By the end of the month, in an area from Sac City to Webster City, to Marshalltown to Jefferson, the moisture supplies had reached the critical stage. Since July 3, this area of about 6 or 7 counties had received less than one inch of moisture, so that the deterioration of the corn was inevitable. However, the soy bean crop remained in excellent condition state-wide with heavy stands and soy bean heights averaged above normal. A heavy set of pods was in prospect with normal weather during August. In general for the month, the crop situation seemed generally favorable until about mid-July. From then on, the lack of moisture, the rapid evaporation, and the developing corn borer damage brought on a slow decline in the prospects. Soil moisture had been deficient over a rather wide area in central and western areas, and practically all areas were needing more rain as the month ended.

The map in this bulletin showing the total hail damage in 1948 was extracted from the annual farm census report in Iowa. This data was furnished by the Iowa Crop and Livestock Reporting Service, Des Moines, Iowa.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of localities where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
JULY 1949

Station	Sea level pressure extremes—inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	
Burlington WB Airport	30.22	1	29.74	20	10.0	30	N	1	87	88	62	65	76	0
Charles City WB City	30.26	10	29.72	18	5.5	18	SE	1					72	0
Davenport WB City	30.26	1	29.76	18										0
Des Moines WB City	30.22a	10	29.68a	18	7.7	34	NW	1	67a	66a	68a	67a	69	0
Dubuque WB City	30.22	1	29.74	18	4.6	24	SW	5					72	0
Sioux City WB City	30.28	10	29.58	17	8.3	29	NE	13+	81	86	54	55	75	1

a -- airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation			
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more	
1873	74.0	96	54	2.78			1903	72.9	100	40	4.83		9	1933	76.1	105	46	3.45		7	
1874	77.8	101	56	3.04			1904	70.6	100	38	4.41		10	1934	79.7	118	40	3.85		10	
1875	72.8	97	56	6.05			1905	70.6	102	40	2.91		9	1935	79.4	107	51	3.35		7	
1876	74.2	95	54	6.15			1906	70.9	102	42	3.04		8	1936	83.4	117	43	0.51		3	
1877	74.0	97	54	2.35			1907	73.7	102	41	7.27		13	1937	75.9	107	46	2.63		7	
1878	76.5	104	52	5.13			1908	73.0	100	42	3.66		8	1938	76.5	107	48	4.24		10	
1879	76.0	102	55	2.20			1909	72.3	102	46	4.77		10	1939	76.2	113	48	3.15		7	
1880	73.8	98	48	4.16			1910	74.5	108	43	1.86		7	1940	76.7	110	42	4.57		7	
1881	75.9	100	50	5.33			1911	75.5	111	38	2.27		7	1941	75.1	106	45	2.24		7	
1882	69.1	94	46	3.66			1912	74.6	103	38	3.71		10	1942	74.3	105	42	4.89		10	
1883	72.9	100	46	5.14			1913	76.1	108	45	1.82		5	1943	75.4	98	47	4.56		10	
1884	71.0	96	50	5.41			1914	76.6	109	43	2.27		5	1944	72.6	98	42	3.73		10	
1885	74.6	102	48	4.73			1915	69.5	92	40	8.32		14	1945	72.1	102	39	2.96		8	
1886	76.2	104	48	0.50			1916	79.7	105	48	1.78		5	1946	72.8	109	36	1.72		7	
1887	77.0	105	45	2.85			1917	74.3	106	38	2.27		7	1947	73.8	100	40	2.45		4	
1888	75.8	103	38	4.31			1918	73.1	105	40	3.17		8	1948	75.0	106	38	4.14		8	
1889	72.6	102	40	4.00			1919	77.4	104	41	2.86		6	1949	76.2	100	43	3.47		7	
1890	75.2	110	45	2.04			1920	72.3	102	45	4.22		9								
1891	68.5	99	41	4.22		8	1921	77.9	104	41	2.53		7								
1892	73.0	104	38	5.29		9	1922	71.5	98	40	6.31		11								
1893	75.0	102	47	3.33		7	1923	76.5	102	47	1.75		5	PERIOD	74.6	118	35	3.64		8	
1894	76.4	109	39	0.63		3	1924	70.2	99	41	3.67		9								
1895	72.1	104	35	3.40		7	1925	74.1	105	40	2.66		8								
1896	73.6	104	42	6.90		9	1926	74.8	109	38	3.72		10								
1897	75.6	106	42	3.26		6	1927	72.9	102	45	1.96		7								
1898	73.4	102	42	2.98		7	1928	73.9	98	43	4.43		8								
1899	73.1	101	38	3.07		7	1929	74.1	98	43	4.31		9								
1900	73.4	102	37	6.15		9	1930	77.9	112	40	1.49		4								
1901	82.4	113	46	2.34		5	1931	77.2	109	42	2.72		6								
1902	73.1	99	41	8.67		13	1932	75.8	106	40	3.12		7								

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
JULY 1948

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	75.9	1.9	95	25	52	30	11		2.05	-1.70	.99	27				4	3	
Alton	76.8	2.3	95	3+	47	30	14		1.91	-1.15	1.12	8				7	2	1
Cherokee	75.4	1.3	96	25	48	30	11		2.13	-1.31	1.07	27				4	3	1
Emmetsburg	76.4 M																	
Estherville	75.7	2.7	98	25	50	30	15		2.15	-1.33	.95	27				7	2	
Hawarden	76.4	1.4	99	3	46	30	15		2.05	-1.05	.74	8				10	3	
Inwood 2 W	74.8	.8	97	2	48	30	10		5.08	2.02	2.17	26				8	4	2
Lake Park	74.7 M	2.1	97	25	48	30	9		4.56	1.52	2.55	26				4	2	2
Le Mars	75.7	.3	98	19	49	30	12		4.97	1.33	1.73	27				7	5	2
Milford 4 NW	75.0	2.0	96	25	50	30	9		2.24	-.96	1.08	27				7	2	1
Pocahontas 2 SE	75.6	1.9	96	3	53	14+	12		3.08	-.16	1.45	26				5	3	1
Primghar	75.8	1.4	97	3+	49	30	11		2.12	-1.28	1.22	27				6	2	1
Rock Rapids	75.0	1.3	98	3	49	30	9		4.91	1.85	1.52	13				8	3	3
Saunborn	74.0	.2	97	25	46	30	11		2.56	-.96	1.36	27				7	3	1
Sheldon	75.1	1.4	97	25	49	30	9		1.77	-2.00	.65	27				9	3	
Sibley	73.9	1.4	96	3	46	30	11		6.49	3.03	2.11	26	T			8	5	4
Sioux Rapids	77.3 M	3.4																
Spencer 1 N	73.8	0.0	97	25	46	30	10		2.97	-.43	.76	13				7	5	
Storm Lake 2 E	74.9	.7	93	25	50	30	8		3.27	-.25	1.38	26				4	4	1
DIVISION	75.4	1.5							3.19	-.19								
NORTH CENTRAL DIVISION																		
Algona	75.7	1.7	95	3+	52	10+	9		5.58	2.47	3.08	26				6	4	2
Allison	76.7	2.7	97	1	52	30+	11		3.83	.11	2.08	1				4	3	2
Bancroft	77.0	3.8	99	3+	51	30	16		6.41	3.01	2.07	26				8	5	4
Britt	75.6	2.2	100	6	48	30	13		3.54	.16	1.37	27				6	4	1
Charles City	75.5	2.4	95	4	53	31	9		1.80	-1.85	1.17	18				9	1	1
Clarion	75.2	1.0	94	1+	49	30	10		1.29	-2.31	.65	13				5	2	
Dakota City	76.1	1.7	94	3+	50	30	11		1.96	-1.54	1.15	26				3	3	1
Forest City	74.1	1.0	95	3+	50	22+	10		6.05	2.74	2.15	18				8	5	3
Hampton	75.7	2.2	94	3	52	30+	9		4.80	.93	2.60	18				8	2	2
Mason City 3 N	75.1	2.1	95	3+	50	30	9		5.09	1.62	2.57	18				5	3	3
Mason City AP CAA	74.3	1.3	95	3+	53	15+	9		5.02	1.55	2.40	18				8	4	2
Northwood	74.6	2.3	95	6	50	30	9		3.51	.06	1.07	26				6	4	2
Osage	74.0	1.3	93	3+	49	31	8		2.78	-.50	1.00	18				5	3	1
DIVISION	75.4	2.0							3.97	.48								
NORTHEAST DIVISION																		
Cascade	75.8		96	1	52	31	11		3.70		1.65	21				8	4	2
Cresco	75.3	3.8	97	4	50	30	9		1.53	-2.28	.72	21				5	2	
Decorah Dry Run	75.8		99	3+	47	10	12		3.43		1.59	21				7	3	2
Decorah 2 S	72.4	1.4	95	3+	44	31	8		3.08	-.71	1.95	21				6	2	1
Delaware 2 W	73.5	.2	95	1	51	31	4		3.87	.02	1.40	21				7	5	1
Dubuque Lock & Dam 11	75.4	.6	93	1+	57	31	4		5.42	2.08	1.41	6				8	6	3
Dubuque WB City	77.1	2.3	97	1+	58	31	7		7.80	4.46	2.74	1				8	5	3
Elkader	74.2	1.9	95	3	46	31	11		2.37	-1.65	.87	21				6	3	
Fayette	74.7	1.9	95	3+	47	31	9		2.83	-1.20	1.63	21				6	3	1
Guttenberg Lock & Dam	77.1	1.6	96	3	54	31	11		2.12	-1.95	.82	21				7	3	
Independence 2 W	75.6	2.1	96	1	51	30+	10		1.34	-2.46	.50	24				5	3	
New Hampton	72.4	-.5	95	1	44	31	9		1.57	-2.11	.70	21				6	3	
Oelwein	76.7	3.2	98	1	53	31	9		3.84	-.25	2.16	1				6	4	1
Saratoga 2 E	72.5		91	4	43	31	6		1.13		.46	18				6	1	
Tripoli	76.6		95	1	52	31	10		2.44		.82	1				7	4	
Waterloo	75.3	.7	94	1	51	31	8		1.40	-2.59	.80	6				6		
Waukon	72.6	.7	94	4	50	22	4		5.50	1.31	1.92	21	T			5	4	
DIVISION	74.9	1.8							3.14	-.77								
WEST CENTRAL DIVISION																		
Audubon 2 S	75.2	.2	95	18	50	30	9		2.46	-1.07	1.24	20				9	3	1
Carroll	77.1	2.4	96	3+	52	30	15		2.48	-.96	1.38	2	T			5	2	1
Castana 4 E	76.0		94	2+	52	30	11		3.87		2.52	20				5	3	1
Cushing 3 NE	74.8	.6	92	3+	51	30+	8		4.33	.73	1.75	26				5	4	2
Denison 1 S	76.5	1.6	96	6	51	15+	12		3.94	.51	2.82	20				8	3	1
Guthrie Center	75.6	.1	93	18	52	30	8		4.10	.51	1.79	1				8	4	2
Harlan	75.8	.8	95	2+	54	30	9		2.86	-.70	1.15	20				6	4	1
Ida Grove 4 S	77.3	2.7	99	6	50	30	20		4.28	.70	1.65	1				4	4	3
Jefferson	76.0	1.2	94	18	50	30	12		1.32	-2.53	.60	1				7	2	
Lake City	76.5	1.6	96	6	48	30	13		1.58	-2.22	.85	1				4	2	
Logan	76.1	-.1	96	3	53	10+	12		4.31	.84	1.07	20				11	6	1
Mapleton 5 NW	75.8	.5	94	2+	51	30	11		1.90	-1.70	.85	20				7	2	
Missouri Valley	77.9	1.2	96	2+	52	30	16		3.70	.50	1.44	26				9	5	1
Onawa	75.4	-.8	99	3	46	30	14		4.35	.64	1.16	13				8	5	2
Rockwell City	76.1	1.5	96	25	49	30	12		1.73	-2.05	1.14	1				4	2	1
Sac City	78.1 M	3.7							2.21	-1.33	1.12	1				5	3	1
Sioux City WB Airport	76.2	1.0	99	3	52	30	12		5.59	2.44	2.05	8				9	5	2
DIVISION	76.3	1.0							3.24	-.31								
CENTRAL DIVISION																		
Ames 3 SW	75.7	.8	95	1	51	31	9		1.93	-1.49	.74	18				5	3	
Boone	78.4	2.4	96	1+	53	30	13		1.50	-2.26	.67	1	T			4	5	1
Des Moines WB Airport	77.2	1.6	97	1	56	30	9		3.13	-.20	1.06	20				6	5	
Des Moines WB City	77.9	1.2	96	1	56	30	11		3.14	-.19	.81	20				6	5	
Fort Dodge	75.8	1.5	95	3	50	30	11		2.53	-1.21	1.67	2				9	2	1

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
JULY 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Grinnell	76.1	.7	95	1	53	30	10	4.29	.51	2.36	27				5	4	1	
Grundy Center 4 NE	75.2	1.7	94	1	52	30+	7	3.92	.27	2.05	18				6	3	2	
Iowa Falls 1 N	74.6	1.5	93	1+	50	31	9	4.59	1.12	2.40	2	T			7	3	2	
Marshalltown	76.5		97	1	51	30	10	.77		.30	20				4	2		
Newton	77.9	2.4	95	1+	55	30	13	3.12	-.48	1.23	27				6	4	1	
Perry 2 SE	75.6	.1	94	1	51	31	11	2.86	-.92	1.01	20				6	4	1	
State Center	76.5	1.5	95	1+	54	30	9	1.74	-1.86	.57	1				4	4		
Toledo	75.6	1.0	95	1	53	31	8	3.55	-.41	1.58	1				7	3	2	
Waukee	78.4	2.8	96	1	56	30	13	2.27	-1.65	.87	20				4	3		
Webster City	76.6	2.1	96	1+	48	30	13	1.49	-1.99	1.03	1				5	2	1	
Woodward 7 N	76.3	.8	93	1+	52	30	9	1.92	-1.88	.56	1	T			6	4		
DIVISION	76.5	1.4						2.67	-.99									
EAST CENTRAL DIVISION																		
Anamosa 1 NW	75.5	1.7	95	1	53	31	6	2.95	-.85	1.20	21				10	4	1	
Belle Plaine	76.4	1.2	96	1	53	31	12	4.59	.39	1.36	18				8	4	2	
Bellevue Lock & Dam 12	76.1	2.1	97	1	54	15+	9	6.60	3.10	2.66	7				9	5	3	
Cedar Rapids No. 1	76.6	1.0	95	1+	55	31	9	2.90	-.78	.84	6				3	5		
Clinton No. 1	77.2	1.8	97	1	58	31	11	7.94	4.40	3.09	21				12	7	3	
Davenport WB City	78.9	2.1	97	1+	61	15	9	6.16	2.94	2.35	6				9	5	3	
Iowa City	77.0	1.9	95	1+	57	31	8	2.38	-1.46	.95	24				10	4		
Iowa City AP CAA	76.7	1.6	97	1	56	23+	13	2.09	-1.75	1.00	23				8	3	1	
Le Claire Lock & Dam 14	78.6		97	3	62	15+	8	5.27	1.93	3.11	21				9	3	2	
Maquoketa 5 E	76.4	2.5	95	1+	55	15	6	3.00	-.72	1.01	21				10	3	1	
Monmouth 4 SW	74.7	.7	96	1+	52	15+	7	3.66	-.09	3.00	21				8	2	1	
Muscatine No. 1	78.8	3.3	98	1+	59	15	16	6.24	2.64	4.48	29	T			8	5	1	
Tipton	76.8	1.3	99	1	56	31	10	2.58	-1.27	.78	6				11	4		
Vinton	76.8	1.8	97	1	55	15+	11	.95	-3.05	.25	18				5	1		
Williamsburg	75.4	-.4	94	1	57	30	4	4.63	.93	1.78	26				10	5	1	
DIVISION	76.8	1.8						4.13	.40									
SOUTHWEST DIVISION																		
Atlantic 1 E	76.1	.1	97	1	52	30	12	6.52	3.14	3.94	20				10	5	2	
Atlantic AP CAA	74.7	-1.3	99	1	51	30	10	5.64	2.26	3.59	20				10	4	1	
Bedford 1 N	75.8	-.7	93	1	58	10	6	4.16	.42	1.76	12				5	3	2	
Clarinda	76.4	-.3	96	1	53	30+	14	1.51	-2.37	.81	21				7	2		
Corning 1 W	76.0	.4	96	18	54	30	13	1.10	-2.46	.47	19				7	1		
Council Bluffs 5 NE	75.9 M		96	1	51	30	15	3.00		.86	20				9	5		
Glenwood 2 E	76.9	-.5	98	8	54	10+	15	3.57	.17	1.34	29				9	5	1	
Greenfield	75.8	1.0	94	1+	54	30	6	4.58	.90	3.17	20				5	3	1	
Norwich 2 E ECS Farm	76.0	-.8	95	1	52	30	13	2.79	-.91	.88	20				8	4		
Oakland 2 E	75.8	-.6	96	1	51	30	10	4.74	1.53	1.83	9				8	6	1	
Red Oak	76.2	-.1	96	1	53	16	14	2.92	-.73	1.00	26				9	4	1	
Shenandoah	78.0	-.3	99	1	54	30	16	3.13	-.57	.94	13				8	5		
Sidney	77.2 M		99	1			15	5.19		1.16	21				9	7	1	
DIVISION	76.2	-.5						3.76	.20									
SOUTH CENTRAL DIVISION																		
Afton	74.4	-2.2	95	1	51	30	10	3.92	.62	3.12	20	T			3	2	1	
Albia	76.5	.4	95	1	53	31	10	4.34	.77	1.35	20				9	5	1	
Centerville	77.6	.3	96	2	55	31	12	5.04	1.44	2.75	20	T			9	5	1	
Chariton 3 E	75.8	.4	94	1+	51	31	9	4.00	.38	2.32	20				4	4	1	
Creston	75.4	0.0	96	1	51	17	11	2.88	-.31	1.41	20				7	2	1	
Indianola	78.1	1.7	98	1	54	30	13	2.84	-.53	1.07	20				7	4	1	
Knoxville 2 W	77.5	1.2	95	1	56	30+	11	3.13	-.35	1.16	20	T			4	4	1	
Lamoni	76.7	.4	95	1	55	30+	8	2.79	-.80	1.31	20				6	3	2	
Millerton	76.1	0.0	94	1	57	30+	5	6.88	3.29	1.97	20				7	5	4	
Mount Ayr 2 N	76.2 M	0.0						4.39	.49	1.78	5				4	3	3	
Osceola	78.0	1.7	99	1+	55	30	15	3.70	.20	2.89	20				6	3	1	
Tingley	75.0	-1.9	95	1	51	30	9	3.83	.33	1.61	20				5	3	2	
Winterset	77.0	.4	95	1	56	31	12	5.71	2.27	2.45	1				4	3		
DIVISION	76.5	.2						4.11	.60									
SOUTHWEST DIVISION																		
Bloomfield 2 N	78.5 M	.9						4.82	1.05	1.18	20				9	6	1	
Burlington WB Airport	79.1	2.3	100	3	59	31	16	3.43	-.03	1.41	29				9	3	1	
Columbus Junction	77.2	1.6	97	1	57	31	11	5.88	2.16	2.13	9				9	5	2	
Fairfield	77.6	1.9	96	4	58	30+	10	4.46	.69	1.72	30				11	4	2	
Keokuk Lock & Dam 19	80.1	2.1	98	1+	62	17	15	2.86	-.29	1.12	9				9	4	1	
Keokuk WB City	79.3	1.3	99	1	63	11	10	3.07	-.08	1.10	8				10	3	1	
Keosauqua State Park	75.9	-.6	94	1	57	31	3	3.58	-.40	.80	20				9	7		
Mount Pleasant	78.4	1.8	98	3	58	16+	15	1.73	-2.08	.63	20				7	3		
Oskaloosa	77.8	2.3	96	1	56	16+	15	2.41	-1.09	.91	20				7	3		
Ottumwa 1 WSW	77.9	.7	96	1	52	31	14	2.95	-.44	.90	20				7	4		
Ottumwa AP CAA	77.5	.3	96	1	58	31	9	2.87	-.52	.99	20				8	3		
Sigourney	77.7	1.5	95	1	58	30	9	2.24	-1.48	.45	29				8	4		
Washington	77.3 M	1.6																
DIVISION	78.0	1.6						3.36	-.30									
STATE	76.2	1.3						3.47	-.13									

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
JULY 1948

Table 3

Station	Day of month																															Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Afton							.65				T	.15	T	T						3.12										T		3.92
Akron	.07						.98					.30	1.70							.55	.30		T						.12		4.08	
Albia		1.03										.06	.39	.38					.50	T	1.35	.60		.20					.18	.12	4.34	
Algona												.39						.85		.20							3.08	1.39				5.88
Allerton	R				.51				.10			.92						.14		2.31			.15					.43			5.69	
Allison		2.08			T										.06			1.39			.30										3.83	
Alta														.02						.79							.25	T			2.05	
Alton		.11						1.12		T			.11							.18	.05						.32			.02	1.91	
Ames 3 SW	Z	.46	.01															.74		.60	T		T				.22	T			1.83	
Anamosa 1 NW		.22		.11		.32		.02						.55				.36		.04	1.20			.06			.07				2.85	
Atlantic 1 E							.28		1.26				.04	.02						3.94	.06		.03			.45	.27		.17		6.52	
Atlantic AP CAA	Z //	T					.10		.82				.05						3.59	.04		.04			.48	.01		.48		.03	5.64	
Audubon 2 S		.07						.30					.01							1.24	.03		.10			.18	.45	.08			2.46	
Augusta						.07		T	.43				.15					T	.30	.28	.38	.02						T	.63		2.86	
Bancroft		.01			1.17								.39					1.29		.22				.03		2.07	1.23				6.41	
Bartlett 3 E					.60								.70							.21	.16		.27			T	.56		.64		3.14	
Bedford 1 N							.14		1.27		T	1.75	.10						.89												4.16	
Belle Plaine		.66	.11		T	T		T										1.36		.21	.01		.80	.14	1.30	T					4.59	
Bellevue Lock & Dam	Z		1.24			.51	2.66		.17			.04	1.74		.12	T		.05		.61	.03	.03			1.30	T	1.21			6.60		
Blockton 2 S								.31											.89			.12					.16				3.26	
Bloomfield 2 N					.10	.15		T	T				.69		.45				.97	1.18	.96		T	T			.04		.28		4.82	
Boone		.67																.30		.43			T			.10	T				1.59	
Britt		.02											.41					.86		.12						.76	1.37				3.54	
Burlington WB Airport Z //					T	T	.04	.71	T			.07	.21		.01			.24		.58	.15						.02		1.41		3.43	
Carroll			1.38					.16											.90								.03					2.48
Cascade	Z	.12	.03		1.00									.07					.30		T	1.65			.03	.50					3.76	
Castana 4 E							T	.44					.18							2.52						.60	.13				3.87	
Cedar Falls		1.17			1.32										.05				.33		.05	.03									2.95	
Cedar Rapids No. 1			.54			.84	T		T	T			.16					.42	.01	T	.54	T		.35			.04				2.90	
Cedar Rapids No. 2			.74			.44	T		T	T			.29	T				.41		T	.32	T		.45			.16				2.81	
Centerville	Z	.36			.37				.06			.91						.33		2.75			.03				.08		.15		5.04	
Chariton 3 E		T			T							.40						.60		2.32									.68		4.00	
Charles City	Z	.02			.12	T		.10	.01				.12	.07				1.17	T	T	.10										1.80	
Cherokee	Z	.07																	.57							.42	1.07				2.13	
Clarence			.07			.13	2.04	T						.62					.09	3.41	.65				1.29			.48			9.06	
Clarinda							.09				.03		.27		.18	T			.11	.81	.02					.15	.20				1.51	
Clarion	T												.65					.04	.25												1.29	
Clinton No. 1		.27	.07		.32	1.46	.03	.70	.12				.03					.27	.06	3.09									1.52		7.94	
Clinton No. 2			.24		T	.82	.57		.85				T	T				.02	.31	3.11	.03							T	.01	1.43	7.39	
Columbus Junction						.36		.11	2.13									.45		.48	.14		.21	.07				1.93			5.88	
Coon Rapids	R	1.00																		2.20			.25			.05	.02		.13		3.65	
Corning 1 W						.15		.03	.14				.01						.47		.22							.08			1.10	
Council Bluffs 6 NE	R							.42					.40						.05	.72	.10					.23		.15		.04	2.66	
Council Bluffs 5 NE								.41					.26	.08					.86	.13		.54				.06	.50		.16		3.00	
Cresco					.07									.18					.52		.72					.04					1.53	
Creston			.01			.22		.21	T					T					.15	1.41	.72								.16		2.88	
Cumberland 5 NW		.04				.37			1.49		T		.04	T						2.94	T										5.79	
Cushing 3 NE		.69	.05										T	T						1.03	T					1.75	.81		T		4.33	
Dakota City	Z	T											T							.41						1.15	.40				1.96	
Davenport WB City	Z	.26			.01	2.35	T	.68	T					T					.20	.14	1.41		.07		T				1.04		6.16	
Decorah Dry Run					.18									.08	.38				1.00	.08	1.59						.12				3.43	
Decorah 2 S							.09							.62					.16	T			.16								3.08	
Delaware 2 W			.87			.23	T	T	.05					.46					.29		1.40										3.87	
Denison 1 S						.02			.03					.05						2.82	.56			.02		.30	.14					3.94
Derby	R				.14				.07			1.36							1.00	4.50	.56							.65			7.72	
Des Moines WB Airport Z		.53			.69			T	T					T					.42	1.06	T		.33						.10		3.13	
Des Moines WB City	Z	.73			.02			T	T					T					.64	.81			.46						.48		3.14	
Dexter	R	.40																	.10	1.30						.20			.60		2.60	
Donnellson 4 N					.01			.64					.08	.08	.03				.21	.25	.50		.12					.20	.80		2.92	
Dorchester													.09	.90					.88		2.42					.06	.08				4.43	
Dubuque Lock & Dam			1.17			1.41	.01		.06					.26	T				.51	T	.98	T					1.02				5.43	
Dubuque WB City	Z	2.74			2.13	.53		.18						.22					.42	T	1.40					.18					7.80	
Dumont 4 NW		.22					.01							.08					2.45	.08	.18						.02				3.04	
Dunbar 2 NE		.49			.70	.04													.53	.32					1.06						3.14	
Eddyville			.25																1.18	.85	.45									.19	2.92	
Eldora		.45				.22								.07						T	.87						.03				1.60	
Elkader	T	.10			.10	T								.38					.80		.04										2.37	
Emerson 5 NE							.08	.41			T		.16							.46	.04					.50	1.87				3.52	
Emmetsburg	T																			.20						2.44	1.43					
Estherville		T												.18						.12					.04		.66	.95	.03			2.15
Fairfield					1.32			.04	.04				.18	.04						.28	.19	.47		.16				.02		1.72	4.46	
Fayette		.04			.05			T	T																							

HOURLY PRECIPITATION

IOWA
JULY 1949

Table 4--Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
WASHINGTON WOODBINE 5SE																	.03	.01							.04 .10
-7th-																									
ATLANTIC AP CAA BURLINGTON WB APT GREENFIELD HINTON 5WNW KEOKUK WBO LAMONI MORSE 4SSW MOVILLE SIOUX CITY WB APT	//	//													.10	.03	.01						.06	.01	.10 .04 .49 .03 .11 .08 .16 .05 .07
-8th-																									
BELLEVUE L/D 12 BURLINGTON WB APT CHARLES CITY COUNCIL BLUFFS 6 NE DAVENPORT WB CITY DUBUQUE WB CITY HAMBURG HINTON 5WNW HORNICK IOWA C RALSTON CRK4 KEOKUK WBO MARION 4NE MISSOURI VALLEY MOUNT PLEASANT MOVILLE MUSCATINE NO 1 MUSCATINE 7N NORWICH 2E SCS FARM REMSEN SIOUX CENTER SIOUX CITY WB APT SOLDIER STRAWBERRY POINT TABOR 6NW WASHINGTON WHEATLAND WOODBINE 5SE	//									.14					.38	.01	.12	.48	.02	.01	.02	.02	.01	.06	.17 .71 .10 .42 .68 .18 .08 .69 .14 .02 1.03 .19 .08 .64 .46 .27 .18 .67 .95 1.98 2.05 .15 .29 .28 .05 .46 .37
-9th-																									
ALLERTON ATLANTIC AP CAA CENTERVILLE CHARLES CITY DERBY IOWA C RALSTON CRK2 IOWA C RALSTON CRK3 IOWA C RALSTON CRK4 WALLIN 2WNW	//	*	*	*	.82										.07	.02	.10	.07							.82 .07 .01 .07 .02 .02 .01 .15
-11th-																									
GREENFIELD HAMBURG LAMONI LENOX MOUNT AYR 2N NORWICH 2E SCS FARM TABOR 6NW																							.12	.11	.02 .34 .08 .02 .19 .07
-12th-																									
ALLERTON BURLINGTON WB APT CENTERVILLE DERBY HAMBURG KEOKUK WBO LAMONI LENOX MOUNT AYR 2N MOUNT PLEASANT OTTUMWA 1SW OTTUMWA AP CAA	//		.18	.11	.17	.29	.08	.06	.02	.01					.02	.02									.07 .93 1.36 .01 .24 .93 .52 .99 .07 .20
-13th-																									
ATLANTIC AP CAA CHARLES CITY COUNCIL BLUFFS 6 NE FOREST CITY HAMBURG HARTLEY 3S HINTON 5WNW HORNICK IOWA FALLS 1N LARRABEE LENOX MARSHALLTOWN NO 2 MASON CITY AP CAA MISSOURI VALLEY MONONA MOVILLE NORWICH 2E SCS FARM REMSEN RINGSTED SHEFFIELD SIOUX CENTER SIOUX CITY WB APT SOLDIER SPENCER 1N SPILLVILLE STRAWBERRY POINT WALLIN 2WNW WOODBINE 5SE	//													.25		.03	.02			.06	.05	.01	.01	.01	.05 .12 .40 .83 .30 .86 1.40 1.06 .08 .05 .03 .08 - .23 .28 .27 .65 .27 .60 .15 1.03 .68 .33 - .06 1.25 .07 .10

See reference notes following Station Index.

HOURLY PRECIPITATION

IOWA
JULY 1949

Table 4-Continued

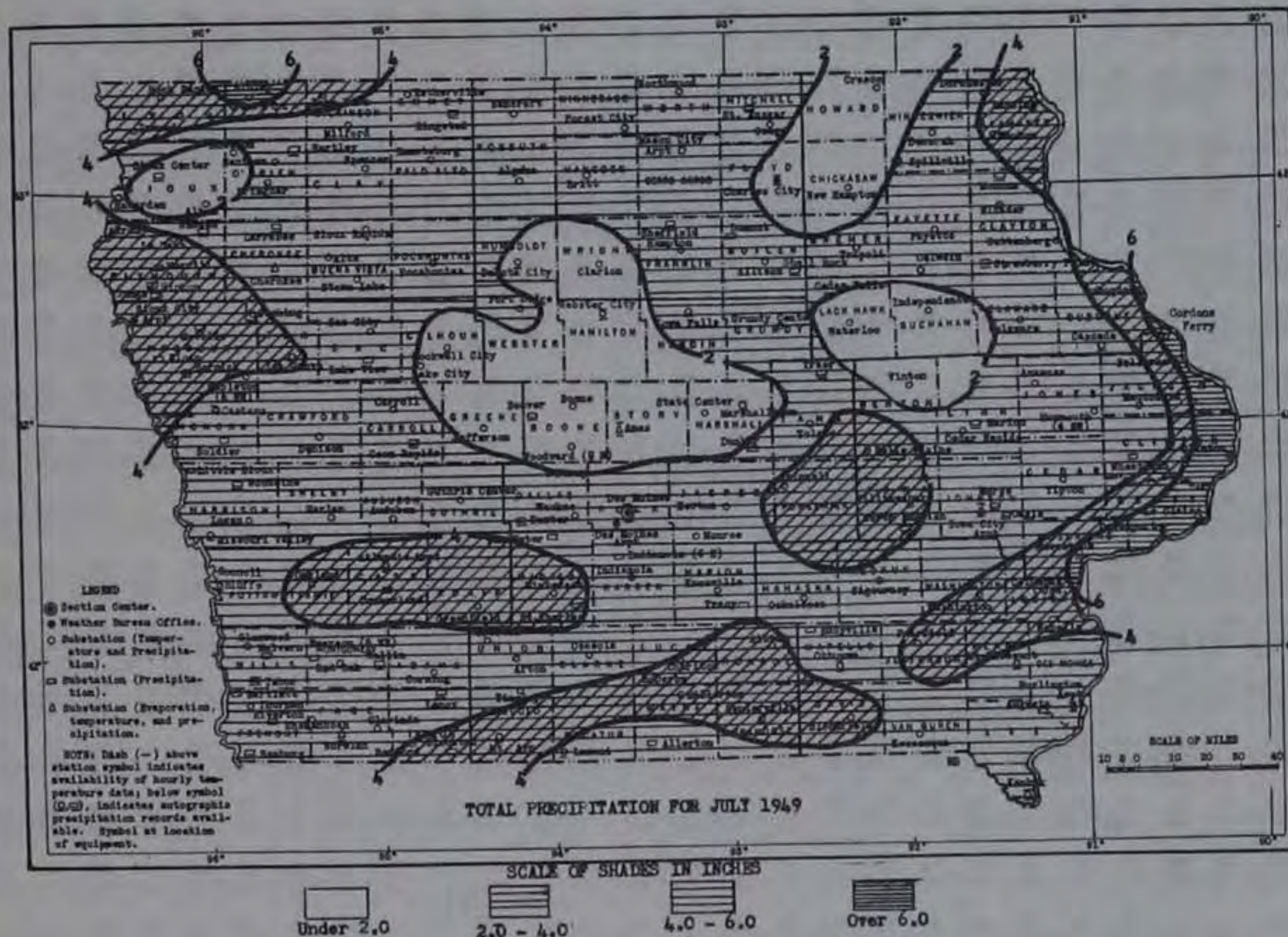
Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-14th-																									
BELLEVUE L/D 12			.10	.02												.20	.01								.12
BURLINGTON WB APT	//																								.21
CASCADE			.07																						.07
CHARLES CITY			.07																						.07
DAKOTA CITY			.02	.03																					.22
DUBUQUE WB CITY			.06	.06	.03	.01																			.02
IOWA FALLS 1N		.01	.01																						.25
MARION 4NE		.05	.20																						.36
MASON CITY AP CAA	6	.33													.34	.02									.05
MOUNT PLEASANT			.05																						.43
SHEFFIELD			.02	.01	.20	.19	.01																		.02
SHELL ROCK	6	.34	*	*	*	*	*	.04																	.02
SPENCER 1N		.01	.01																						.56
SPILLVILLE		.50		.02	.03	.01																			.59
STRAWBERRY POINT							.29	.26	.04																.15
WHEATLAND																									.15
-17th-																									
AMES 3SW																									.30
IOWA FALLS 1N																					.06	.03			.09
RINGSTED																					.02				.02
WEBSTER CITY																									.85
-18th-																									
ALLERTON																									.59
AMES 3SW		.08	.49	.01		.01																			.05
BELLEVUE L/D 12	6							.04	.01																.24
BURLINGTON WB APT							.08	.22	.18	.06															.30
CASCADE				.04	.27	.01																			.32
CENTERVILLE			.19	.60	.15	.17	.06																		1.17
CHARLES CITY						.01	.09	.10														.85			.20
DAVENPORT WB CITY																									1.00
DERBY			.07	.08																					.42
DES MOINES WB APT		.20	.20	.02																					.64
DES MOINES WB CITY		.06	.44	.14																					.10
DEXTER			.10																						.42
DUBUQUE WB CITY						.29	.11	.02																	2.15
FOREST CITY		.35	1.40	.15	.25	.25	.01																		.61
GRINNELL	6		.02	.08	.25	.25	.01	.27	*	*	*	*	*	*	.08										.35
IOWA CITY AP CAA																									.35
IOWA C RALSTON CRK1					.03	.22	.07	.03																	.35
IOWA C RALSTON CRK2				.01	.03	.16	.14	.01																	.35
IOWA C RALSTON CRK3					.02	.14	.19																		.41
IOWA C RALSTON CRK4					.02	.17	.15	.01																	1.23
IOWA C RALSTON CRK5					.02	.21	.18																		.08
IOWA FALLS 1N		.04	.96	.02	.17	.04			.02	.07															.74
KEOKUK WBO																									.34
KNOXVILLE 2W			.07	.17	.48	.02																			.18
MARION 4NE							.34																		.92
MARSHALLTOWN NO 2		.13	.05					2.40																	.44
MASON CITY AP CAA	6									.03	.01											.02		.42	
MONONA			.04	.49	.19	.16	.17	.08														.04			.35
MORSE										*	*	*	*	*	.38										.11
MORSE 1NE						.15	.18	.02																	.61
MORSE 4SSW							.09	.02																	.57
MOUNT PLEASANT						.02	.16	.14	.02														.27		.30
MUSCATINE NO 1						.03	.27	.04															.23		.38
MUSCATINE 7N				.02	.08	.17	.03																		.59
NORTH ENGLISH			.02	.01	.03	.12	.18	.02																	.11
OASIS							.59		.92																.03
OTTUMWA 1WSW	6																								1.75
OTTUMWA AP CAA		.08	.01	.01	.01																				.85
RINGSTED		.01	.02																						1.08
SAINT CHARLES			.29	.96	.50	.04																.05			.30
SHEFFIELD		.01	.04	.07	.64	.04																			1.08
SHELL ROCK		.01	.01	.53	.28	.25																			.81
SPILLVILLE				.02	.08	.19	.01																		.04
STRAWBERRY POINT			.04	.06	.75	.22	.01																		.30
TRAR						.14	.12	.55																	.04
WASHINGTON		.04							.30																.05
WEBSTER CITY																									.03
WHEATLAND																									.03
-19th-																									
COUNCIL BLUFFS 6 NE																									.05
LENOX																									.03
RINGSTED																									.03
SHEFFIELD																									.05
-20th-																									
ALLERTON			.62	.05	.53	.02	.01	.49	.28	.02	.01	.09	.10	.08	.02										2.32
AMES 3SW				.02	.12	.18	.08	.07	.02	.01															.50
ATLANTIC AP CAA	//			1.60	1.00	.96	.16	.07	.02	.01	.02														3.82
BURLINGTON WB APT	//				.06	.19	.05	.05	.18	.04	.01														.58
CENTERVILLE				.24	1.37	.03	.06	.76	.14	.03	.02	.13	.03	.02											2.83
CHEROKEE						.57																			.57
COON RAPIDS			.52	.94	.36	.05	.26	.07																	.71
COUNCIL BLUFFS 6 NE		.01	.01	.01	.02	.55	.12																		.41
DAKOTA CITY				.18	.20	.03																			.14
DAVENPORT WB CITY							.01	.02	.09	.02															4.50
DERBY			1.64	.78	.26	.06	1.16	.17	.18	.04	.09	.07	.03	.01	.01										1.06
DES MOINES WB APT			.07	.04	.47	.19	.18	.03	.01																.81
DES MOINES WB CITY				.11	.04	.35	.14	.15																	

HOURLY PRECIPITATION

IOWA
JULY 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
GREENFIELD								*	*	*	.79														.79
HAMBURG									.18	.02											.05				.25
HINTON 5WNW											.02	.01													.03
HORNICK										.03															.01
IDA GROVE 4S														*	*	*	*	*	*		.16				.12
IOWA CITY AP CAA															.10	.07	.01								.18
IOWA C RALSTON CRK1														.08	.08										.16
IOWA C RALSTON CRK2														.19	.19	.01									.20
IOWA C RALSTON CRK3														.10	.02	.01									.46
IOWA C RALSTON CRK5														.19	.03	.03									.25
KNOXVILLE 2W															.15	.05									.20
MISSOURI VALLEY															.10										.10
MORSE 1NE															.03	.09	.02								.42
MORSE 4SSW														.48	.18	.13	.04								4.43
MOUNT PLEASANT		.04	.36	.08	.07							.08	.25	.12	.04										3.90
MUSCATINE NO 1			2.50	.90	1.08									.30											.30
MUSCATINE 7N						.01																			.06
NORTH ENGLISH										.01	.02	.03													.52
NORWICH 2E SCS FARM													.46	.06											.45
OASIS																	.03								.90
OTTUMWA 1WSW								*	*	*	.21	.19	.02	*	*	*	*	*		.03				.03	.06
OTTUMWA AP CAA											.23	.49	.17	.01											.31
SAINT CHARLES											.03	.03													.59
SIoux CITY WB APT										.10	.15	.01					.03	.02							1.42
TABOR 6NW										.11	.41	.03					.03	.03	.01						.30
WALLIN 2WNW												.34	.55	.17	.01										.08
WASHINGTON		.13	.22												.29	.01									.08
WHEATLAND											.08														.03
WOODBINE 5SE																									.04
-31st-																									
ATLANTIC AP CAA	//																							.03	.03
BEAVER 1N																									.04
COUNCIL BLUFFS 6 NE																				.24	.10				.34
HINTON 5WNW																				.02					.02
IDA GROVE 4S																									.07
IOWA C RALSTON CRK4																							.06	.01	.07
MISSOURI VALLEY																									.07
MORSE																								.07	.07
MOVILLE																								.08	.08
SIoux CITY WB APT																						.04			.04
SPILLVILLE																								.01	.01
TABOR 6NW																									



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
JULY 1949

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
AFTON	MAX MIN	95 70	92 64	93 69	93 68	88 70	92 65	92 66	87 69	85 59	80 57	82 56	82 58	87 57	74 59	82 57	83 55	86 56	93 65	87 60	81 60	84 70	82 56	84 63	90 67	91 66	88 69	82 67	90 69	83 62	76 51	87 57	86.2 62.3
ALBIA	MAX MIN	95 69	93 66	94 73	93 72	89 72	92 71	90 72	89 72	89 70	85 58	82 58	83 62	87 63	81 64	85 60	86 57	86 63	90 67	87 62	82 64	86 70	85 59	88 63	90 70	90 70	88 73	84 70	90 73	82 67	78 56	83 53	87.2 65.8
ALGONA	MAX MIN	87 72	92 65	95 74	94 73	92 71	95 72	89 72	85 70	83 72	82 52	83 59	85 62	85 61	81 59	86 57	87 62	88 59	91 65	84 57	81 64	84 71	84 56	85 60	93 72	94 70	88 64	88 69	90 71	84 64	74 52	60 55	86.7 64.6
ALLISON	MAX MIN	87 69	93 65	95 74	96 74	94 72	93 72	88 72	88 72	86 67	85 55	86 56	88 59	91 62	80 65	89 58	90 63	89 62	89 65	85 59	85 64	84 65	84 65	88 58	92 71	94 71	89 73	88 71	92 70	81 60	78 52	84 52	88.4 64.9
ALTA	MAX MIN	85 68	92 68	93 74	91 73	92 70	93 72	90 73	90 71	84 63	85 59	79 60	88 62	83 64	80 57	86 58	87 61	86 61	87 66	86 59	86 60	87 67	83 59	85 66	91 72	95 72	87 68	84 68	90 71	82 60	78 52	83 58	86.8 64.9
ALTON	MAX MIN	87 65	94 62	95 70	94 81	95 79	92 74	93 75	90 71	84 91	83 58	87 60	88 65	80 60	83 60	85 58	87 65	86 62	86 62	86 58	87 65	85 65	84 56	85 65	93 74	95 73	93 69	92 68	92 67	90 58	78 47	85 58	88.3 65.0
AMES 3SW	MAX MIN	95 70	91 65	91 71	91 72	88 72	91 69	88 73	84 70	88 71	84 57	82 56	85 58	88 58	79 64	86 56	87 57	88 60	93 69	85 57	82 63	85 72	84 55	83 61	90 70	91 69	86 71	86 72	92 72	85 69	78 52	83 51	86.7 64.6
ANAMOSA 1NW	MAX MIN	95 70	91 65	93 73	93 73	90 73	87 72	87 73	85 70	87 72	80 56	81 59	85 62	86 59	79 63	83 58	85 57	86 60	86 67	83 58	81 65	88 68	80 57	84 57	89 70	89 70	89 71	85 70	90 74	84 72	77 56	79 53	85.7 85.2
ATLANTIC 1E	MAX MIN	97 72	95 67	94 73	93 73	90 69	95 69	93 70	92 72	85 71	85 55	81 56	87 59	88 59	78 61	85 55	85 56	87 60	94 68	90 56	85 65	83 71	85 55	87 66	90 71	91 70	88 70	83 69	89 72	80 64	80 52	82 54	87.6 64.2
ATLANTIC AP CAA	MAX MIN	99 70	97 67	95 70	93 70	90 68	95 68	93 69	90 73	86 60	82 53	82 55	83 58	86 58	78 58	85 55	86 55	86 56	95 61	89 54	81 65	81 59	85 54	86 66	89 70	90 70	87 70	82 70	89 72	75 57	79 51	80 53	86.9 82.4
AUDUBON 2S	MAX MIN	92 72	91 67	93 71	91 72	93 70	92 68	94 71	89 68	86 68	82 55	82 59	84 64	86 66	77 60	83 58	85 57	87 60	95 67	87 59	84 63	87 68	85 68	80 58	87 65	91 65	87 68	84 65	85 79	78 65	80 60	82 60	86.4 64.0
BANCROFT	MAX MIN	91 71	97 65	99 74	98 74	98 72	99 70	93 72	90 70	85 72	87 55	86 59	82 61	88 62	83 59	89 54	91 59	92 59	87 65	82 56	86 66	85 68	88 59	90 59	96 69	97 71	90 68	86 68	86 70	79 58	85 51	85 54	89.9 64.0
BEDFORD 1N	MAX MIN	93 73	92 68	91 74	90 71	88 70	90 68	89 71	89 68	86 68	83 55	76 59	86 64	83 66	87 60	82 58	82 61	83 64	87 70	85 63	86 65	80 70	83 62	84 65	88 70	89 70	85 72	81 70	87 71	82 66	78 59	82 66	85.0 66.5
BELLE PLAINE	MAX MIN	96 70	93 66	94 72	93 71	91 73	90 72	84 71	87 71	90 71	83 57	83 58	86 58	89 60	80 65	86 56	89 56	88 60	87 66	85 60	84 64	90 72	84 56	84 61	91 69	91 71	90 69	83 73	92 72	85 72	80 55	81 53	87.4 85.3
BELLEVUE LOCK AND DAM 12	MAX MIN	97 69	91 70	95 73	94 73	92 70	91 63	80 73	83 71	88 72	80 62	84 56	87 63	78 61	86 65	88 59	86 60	86 68	86 69	85 59	82 63	86 70	80 59	85 55	90 73	89 72	91 70	88 71	81 76	87 75	78 61	78 54	86.3 55.8
BLOOMFIELD 2N	MAX MIN	99 74	97 71	96 71	89 71	95 80	92 74	88 73	88 70	85 69	84 59	84 61	89 60	84 62	88 68	84 64	89 62	88 65	82 68	90 65	88 68	82 65	90 65	91 68	89 68	90 68	89 72	86 71	80 72	80 69	88.8 88.2		
BOONE	MAX MIN	96 70	94 67	96 74	95 75	92 72	95 74	89 71	86 72	87 72	84 64	85 61	87 61	90 65	60 69	87 58	90 61	92 64	94 69	88 62	87 72	86 73	87 59	86 66	96 72	96 72	88 73	88 75	84 66	79 53	87 56	89.2 67.6	
BRITT	MAX MIN	95 71	92 64	99 73	94 78	97 70	100 70	94 70	90 69	89 69	86 50	86 56	82 58	88 59	83 58	90 53	86 56	83 59	88 62	88 53	88 62	81 59	84 59	86 67	95 70	95 66	88 66	88 69	85 58	80 48	80 53	89.5 62.2	
BURLINGTON WB APT	MAX MIN	99 73	98 72	100 76	98 73	94 74	96 72	90 73	91 74	90 73	83 66	84 61	80 61	89 66	87 61	86 63	89 62	89 69	90 70	89 68	89 73	85 66	91 67	93 71	93 71	93 72	94 73	88 72	95 68	85 63	80 59	80 59	89.5 68.8
CARROLL	MAX MIN	93 67	95 67	96 72	95 72	95 71	96 70	92 73	91 72	86 70	85 58	88 59	81 61	88 58	81 58	88 53	89 56	90 59	95 69	91 56	88 63	88 70	86 54	88 64	93 70	90 71	90 73	89 70	87 72	87 67	82 52	86 54	89.6 64.5
CASCADE	MAX MIN	96 71	93 66	94 72	93 71	93 71	90 71	82 73	85 70	90 72	83 55	83 56	87 64	87 60	77 64	87 55	89 55	87 57	85 57	86 57	84 63	88 68	82 55	85 56	90 78	90 69	90 70	85 70	90 74	88 72	80 57	79 52	87.0 64.5
CASTANA 4E	MAX MIN	89 71	94 69	94 74	93 73	92 69	94 71	88 71	84 68	85 67	83 56	89 65	83 61	83 65	79 59	85 58	85 61	86 61	91 68	90 59	84 62	82 65	84 57	84 65	90 71	91 71	87 67	85 68	90 72	81 63	77 52	82 57	86.9 65.0
CEDAR RAPIDS NO 1	MAX MIN	95 70	93 65	95 73	93 73	89 73	88 71	84 73	86 71	89 72	83 58	84 60	86 62	87 62	78 64	86 57	88 59	87 61	87 67	86 60	83 64	90 70	84 57	85 61	90 70	92 71	91 71	83 74	91 74	85 74	81 57	81 55	87.1 66.0
CENTERVILLE	MAX MIN	95 74	96 67	95 73	95 72	89 72	93 71	90 73	90 73	87 71	86 60	84 62	83 61	87 61	81 64	86 64	87 58	85 64	91 66	90 66	85 71	88 67	86 67	91 71	90 71	90 71	88 74	85 72	90 69	87 57	82 55	86.1 67.1	
CHARITON 3E	MAX MIN	94 71	93 66	94 70	92 72	88 70	92 71	88 74	87 69	88 56	82 55	80 56	82 56	87 62	78 60	82 58	84 59	85 67	87 60	81 65	86 71	83 56	83 63	88 72	90 70	88 74	85 72	90 73	87 68	85 56	81 51	83 51	86.4 65.2
CHARLES CITY	MAX MIN	94 70	94 66	94 74	95 74	92 73	91 73	87 73	84 73	86 72	82 63	82 56	85 59	88 61	79 61	86 56	88 60	87 63	88 65	83 58	83 66	82 57	82 59	85 71	91 71	91 71	85 71	85 74	91 71	76 60	77 54	81 53	86.3 64.7
CHEROKEE	MAX MIN	84 68	94 67	95 73	94 72	93 68	95 69	94 70	89 71	85 68	85 50	82 56	88 58	85 60	81 56	86 51	88 55	88 60	90 65	90 52	88 63	84 52	87 62	93 71	96 73	88 68	88 68	91 72	74 58	78 48	85 56	88.0 62.7	
CLARINDA	MAX MIN	96 72	95 68	94 73	93 71	92 69	93 69	92 69	91 73	87 71	85 57	78 59	84 61	87 60	74 62	84 56	84 58	86 58	95 68	95 62	82 66	81 73	85 58	88 66	90 69	92 68	90 71	84 72	91 66	85 53	77 53	84 53	87.5 65.3
CLARION	MAX MIN	94 73	92 63	94 73	93 73	92 70	94 71	86 71	88 71	84 70	83 52	81 55	85 58	87 56	79 62	85 53	86 58	87 58	91 67	85 52	81 62	83 50	84 60	84 60	93 71	92 71	85 70	87 71	90 70	88 63	79 49	83 53	86.9 63.4
CLINTON NO 1	MAX MIN	97 70	94 70	93 70	95 72	93 75	90 73	82 73	86 70	90 74	82 65	80 60	82 66	86 63	78 66	83 60	88 62	88 64	86 68	87 64	82 65	87 68	85 61	82 72	87 72	82 73	85 74	90 77	82 72	80 62	77 58	80 58	87.8
COLUMBUS JUNCTION	MAX MIN	97 74	93 67	96 72	95 71	91 75	91 71	85 71	86 71	88 71	85 61	81 60	81 65	87 59	81 64	82 60	88 58	88 61	87 67	85 68	81 62	81 73	85 62	87 71	92 72	92 72	87 73	93 74	86 75	86 60	80 57	87.4 66.9	
CORNING 1W	MAX MIN	95 73	94 67	93 74	93 72	88 70	93 69	91 69	90 72	86																							

DAILY TEMPERATURES

IOWA
JULY 1949

Table 5-Continued

Station	Day of month																															Average																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																									
DECORAH 2S	MAX MIN	90 71	94 61	95 69	95 67	86 64	89 65	82 70	80 68	86 64	80 47	82 48	85 49	92 51	76 61	84 50	90 53	88 54	87 60	82 51	81 57	82 65	79 50	82 49	89 66	91 65	89 67	85 68	90 68	84 64	76 48	78 44	85.5 59.2																							
DELAWARE 2W	MAX MIN	95 65	91 68	93 72	92 71	88 72	88 68	80 70	81 67	88 70	80 54	81 55	85 59	86 60	77 60	84 55	87 59	85 59	85 63	82 54	87 61	81 52	84 56	87 67	89 67	85 68	89 65	85 62	79 52	81 52	79 51	85.1 61.8																								
DENISON 2S	MAX MIN	89 72	95 68	95 74	95 74	95 70	96 70	92 72	89 72	86 68	83 55	85 60	87 61	88 58	78 58	88 51	89 60	90 61	95 68	91 53	86 62	83 66	87 55	87 66	92 71	93 71	88 69	86 68	90 72	84 62	79 51	85 55	86.6 64.3																							
DES MOINES WB APT	MAX MIN	97 70	93 68	95 74	94 74	88 73	93 71	88 74	86 73	89 69	84 62	82 63	86 63	87 61	76 63	86 60	87 63	88 65	93 70	86 63	84 65	85 67	85 60	83 68	90 72	92 71	89 75	85 75	91 74	81 62	80 56	83 57	87.3 87.1																							
DES MOINES WB CITY	MAX MIN	96 71	93 70	95 74	94 76	89 74	93 72	90 75	86 74	90 68	85 61	83 63	86 64	88 63	76 66	86 60	88 63	88 64	94 70	87 65	84 65	85 72	85 62	84 68	91 72	92 73	88 77	85 76	92 75	81 63	80 56	83 59	87.6 88.1																							
DUBUQUE L AND D 11	MAX MIN	93 69	90 69	93 75	91 75	89 71	89 72	80 72	84 70	87 72	78 62	78 61	85 65	86 65	79 63	84 59	86 64	83 66	81 66	82 64	78 64	85 68	76 62	81 60	85 71	84 71	85 68	83 70	86 75	83 72	75 61	77 57	83.7 87.1																							
DUBUQUE WB CITY	MAX MIN	97 69	92 70	97 76	94 77	88 72	87 73	78 72	83 72	89 71	80 64	80 61	84 66	87 66	77 65	85 61	88 64	87 67	86 69	84 65	82 66	88 70	80 63	86 60	89 74	90 73	90 72	86 73	90 76	85 68	79 61	78 58	86.0 88.2																							
ELKADER	MAX MIN	93 72	93 65	95 64	94 64	90 68	91 67	83 72	82 69	89 69	89 50	81 50	87 51	88 56	80 65	87 59	89 55	87 57	90 58	81 52	85 58	89 65	82 51	85 51	91 68	92 62	90 71	89 68	86 68	87 68	93 68	83 52	81 46	87.4 81.0																						
EMMETSBURG	MAX MIN	86 71	93 64	95 73	93 73	92 69	95 70	92 72	87 70																													86 58	88 57	88 66	83 58	82 60	83 68	84 55	86 59	92 71	94 67	89 65	85 90	88 75	89 58	90 52	88 55	85 52	82 55	87.8 64.9
ESTHERVILLE	MAX MIN	86 68	95 65	96 73	95 75	95 69	95 70	93 71	90 69	85 67	85 52	85 57	90 63	80 60	81 57	89 53	91 56	91 56	90 55	85 64	87 67	88 52	88 58	81 67	92 67	98 70	86 67	87 69	93 72	86 58	84 50	83 53	88.6 82.8																							
FAIRFIELD	MAX MIN	94 74	91 67	91 73	96 74	95 74	91 71	87 73	88 72	88 72	89 60	84 61	83 63	82 61	87 65	83 63	83 59	88 63	87 69	88 66	88 66	81 62	92 63	86 63	89 70	93 72	93 73	91 73	86 74	84 74	83 58	79 58	87.7 87.4																							
FAYETTE	MAX MIN	94 70	93 63	95 71	95 70	92 68	90 70	84 70	82 68	88 80	83 50	82 51	87 56	89 56	79 54	86 53	89 57	88 58	89 64	85 54	82 62	84 68	82 53	83 52	92 70	92 70	88 74	86 72	91 71	81 68	78 52	83 47	86.8 82.5																							
FOREST CITY	MAX MIN	90 72	94 62	95 71	95 71	93 68	93 70	94 72	84 71	85 68	75 56	85 55	83 54	88 56	72 60	86 51	88 55	88 58	87 64	82 52	82 63	82 65	82 50	85 58	90 68	91 69	83 69	85 68	90 70	81 59	77 52	80 50	86.0 82.2																							
FORT DODGE	MAX MIN	92 67	93 65	95 73	93 74	92 70	93 71	88 73	88 70	84 70	83 55	82 56	85 58	88 60	78 60	86 52	87 57	90 60	92 69	88 55	85 62	84 69	85 53	85 58	93 71	93 71	85 70	88 72	94 75	83 63	78 50	85 51	87.6 83.9																							
GLENWOOD 2E	MAX MIN	97 68	95 69	86 75	93 74	93 71	94 70	92 70	98 74	91 69	85 54	82 57	87 59	87 60	78 62	85 59	84 54	88 63	93 67	90 58	85 68	83 69	85 54	87 68	91 71	92 71	90 74	85 72	92 74	90 64	79 54	83 55	88.4 85.4																							
GREENFIELD	MAX MIN	94 73	94 68	93 74	91 72	89 70	91 70	87 69	87 72	86 67	81 57	79 58	83 60	88 61	76 62	81 61	84 61	85 61	92 67	86 62	80 64	82 72	81 61	84 70	89 70	87 71	89 71	83 71	89 71	80 65	78 54	80 63	85.5 86.0																							
GRINNELL	MAX MIN	95 69	94 64	94 72	94 71	91 73	93 71	87 70	86 70	89 69	83 56	83 59	87 61	88 60	79 61	86 68	88 60	87 62	87 65	86 55	82 63	87 71	86 58	85 62	91 69	90 69	91 67	82 72	90 71	83 68	80 53	82 54	87.3 84.9																							
GRUNDY CENTER 4NE	MAX MIN	94 68	91 63	92 72	91 76	90 73	89 72	83 70	85 70	87 54	85 53	80 57	86 59	86 64	79 58	87 61	86 61	86 64	87 64	85 57	81 63	84 70	84 55	84 58	90 70	89 70	85 70	85 71	90 70	82 68	83 52	82 52	86.1 84.3																							
GUTHRIE CENTER	MAX MIN	92 68	90 71	92 77	92 68	87 71	90 71	88 72	85 73	85 72	81 58	79 59	83 60	85 62	74 62	81 59	85 60	87 60	93 68	86 60	83 64	81 72	82 60	82 66	90 70	90 70	85 73	84 71	89 72	82 65	76 52	82 56	85.2 85.9																							
GUTTENBERG L D 10	MAX MIN	94 72	94 67	96 74	94 78	92 73	92 72	85 71	82 60	88 72	82 59	85 59	88 61	90 69	85 63	86 58	90 62	89 64	88 64	85 59	83 64	84 68	85 59	85 57	90 72	90 76	89 72	88 70	91 74	88 71	85 57	81 54	87.9 86.2																							
HAMPTON	MAX MIN	93 70	92 64	94 74	92 74	92 71	91 70	85 72	84 71	85 71	82 56	80 59	85 59	87 61	84 63	85 58	86 62	87 62	87 63	82 59	81 64	82 71	80 57	84 68	90 71	90 72	87 73	85 72	91 72	88 67	76 52	81 52	86.1 85.2																							
HARLAN	MAX MIN	91 73	95 69	95 73	93 73	93 71	95 70	93 72	87 73	84 70	84 58	80 60	83 62	84 61	78 60	83 58	84 57	83 59	93 68	86 57	83 65	80 63	81 52	84 62	89 73	91 72	86 73	83 70	83 71	81 64	79 54	83 57	86.0 85.6																							
HAWARDEN	MAX MIN	88 66	96 69	99 69	97 74	96 71	98 72	98 68	87 67	83 65	85 52	83 58	89 59	85 59	82 58	85 59	88 52	90 63	90 65	88 63	87 65	85 52	88 62	92 73	98 73	98 72	93 69	92 69	92 70	84 58	80 46	91 57	89.9 82.9																							
IDA GROVE 4S	MAX MIN	89 68	97 68	97 74	97 72	98 69	99 71	94 72	91 62	89 68	90 68	89 64	91 66	87 61	82 58	82 59	89 64	92 65	94 60	91 59	91 57	85 64	90 66	95 55	97 64	90 72	87 69	92 71	81 51	81 50	87 57	90.9 83.6																								
INDEPENDENCE 2W	MAX MIN	96 68	94 64	94 71	94 70	92 71	91 70	86 71	86 69	88 68	83 55	83 57	86 58	83 60	86 61	88 56	88 60	88 61	88 63	85 57	85 63	89 68	82 55	87 56	92 67	92 68	90 70	85 69	92 69	89 69	78 51	82 51	87.8 83.4																							
INDIANOLA	MAX MIN	98 70	92 67	96 73	94 73	89 72	91 73	88 73	87 73	90 73	83 57	82 64	85 67	90 68	84 65	84 59	89 68	89 69	93 68	90 61	84 60	87 72	84 65	84 75	94 74	93 73	92 74	87 74	86 69	80 54	85 61	88.5 87.7																								
INWOOD 2W	MAX MIN	87 62	97 67	98 72	96 72	95 71	97 71	95 68	86 66	83 61	83 52	83 57	89 59	83 59	80 55	84 52	86 54	88 64	86 61	86 53	84 64	86 60	81 50	85 60	95 70	95 72	90 69	87 72	90 72	77 54	87 48	87.7 81.8																								
IOWA CITY	MAX MIN	95 73	94 67	95 74	94 73	89 73	89 72	86 73	88 71	89 73	84 61	81 60	85 64	87 61	81 66	85 58	89 61	87 62	87 68	85 63	81 64	90 72	84 60	87 61	89 71	90 70	85 72	91 75	86 71	79 59	79 57	87.1 86.9																								
IOWA CITY AP CAA	MAX MIN	97 71	95 67	96 72	94 72	90 72	91 72	88 70	88 66	90 61	84 59	82 64	88 57	88 64	78 57	86 57	89 59	89 67	89 61	87 61	83 68	92 57	85 56	90 69	91 69	93 70	92 72	86 73	87 65	80 59	80 56	88.4 85.0																								
IOWA FALLS 1N	MAX MIN	93 63	90 63	93 72	92 72	91 71	91 70	83 71	83 71	85 64	80 57	80 57	82 57	89 59	76 64	85 55	87 58	86 60	87 64	82 57	80 64	80 68	80 55	85 59	91 71	91 70	85 75	85 72	92 72	85 65	76 51	83 50	85.4 83.8																							
JEFFERSON	MAX MIN	93 68	90 66	93 73	91 72	90 71	92 73	86 73	87 73	87 67	83 56	84 58	84 59	90 60	78 62	85 57	87 59	88 68	94 68	87 56	83 63	83 72	82 55	90 64	92 71	88 72	85 70	91 73	87 68	77 50	83 52	87.0 84.9																								
KEOKUK L D 19	MAX MIN	98 78	96 75	98 80	97 79	91 77	94 76	92 77	88 75	92 74	90																																													

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Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
LE MARS	MAX MIN	90 67	94 69	96 75	95 72	94 70	95 70	95 68	90 66	82 66	84 56	83 52	88 57	83 60	83 56	86 52	86 56	86 63	85 63	98 53	87 64	82 63	87 53	89 53	93 62	95 72	89 66	88 69	94 72	85 60	80 49	86 58	88.7 62.6
LOGAN	MAX MIN	90 73	95 69	96 74	94 72	93 70	94 70	92 70	90 71	85 68	83 53	81 59	86 63	88 62	76 61	84 56	86 55	88 61	93 66	89 56	85 65	81 68	84 55	84 66	92 69	92 71	88 69	87 68	92 71	84 62	78 53	84 56	87.5 64.6
MAPLETON 5NW	MAX MIN	84 69	94 69	94 76	92 74	94 69	93 70	92 70	88 70	85 68	87 56	84 58	88 59	83 59	81 60	87 53	87 54	86 62	90 67	91 55	84 65	84 64	85 54	85 65	90 72	92 73	86 68	86 69	92 73	81 62	80 51	85 56	87.4 64.2
MAQUOKETA 5E	MAX MIN	95 70	92 68	95 78	93 73	91 74	88 71	83 72	84 69	91 72	85 58	81 57	83 64	86 63	79 64	87 55	88 62	86 62	85 67	87 61	81 64	86 69	86 60	84 60	89 71	86 70	89 70	86 74	89 71	86 58	82 56	84 56	87.5 66.2
MARSHALLTOWN	MAX MIN	97 74	94 72	95 76	93 72	92 72	92 71	86 71	83 71	91 77	83 57	83 56	82 57	85 56	89 64	86 57	89 59	90 66	86 68	86 66	86 66	85 54	86 54	85 60	90 70	86 73	88 72	94 72	82 72	79 51	84 65	86.6 65.5	
MASON CITY 3N	MAX MIN	90 72	93 62	95 73	95 74	91 70	94 71	89 72	87 71	85 69	84 62	83 54	88 59	88 62	80 60	86 58	87 60	87 63	88 55	83 55	82 64	82 71	81 53	81 57	91 71	90 73	83 68	65 70	92 71	83 62	76 50	76 51	86.1 63.5
MASON CITY AP CAA	MAX MIN	90 67	93 63	95 72	95 73	92 69	95 70	89 72	86 70	85 62	84 54	83 55	87 58	85 61	80 56	85 53	87 60	88 58	88 62	82 56	82 65	81 60	81 53	84 57	91 71	92 70	83 68	64 70	90 71	76 56	76 53	81 53	86.1 62.5
MILFORD 4NW	MAX MIN	88 67	93 66	94 72	93 73	92 69	93 70	91 74	89 71	81 66	82 52	83 61	88 61	79 59	80 55	85 55	87 59	88 59	88 65	85 55	81 62	85 53	85 61	89 67	95 70	96 68	87 68	86 72	92 55	81 50	76 56	82 56	86.9 63.1
MILLERTON	MAX MIN	94 72	92 68	93 73	92 72	88 70	89 69	91 71	88 72	86 70	82 59	79 59	79 59	84 63	78 64	81 62	84 59	84 62	87 69	86 65	85 65	85 71	84 63	86 65	89 71	88 70	88 73	83 70	88 72	85 69	75 57	82 57	85.6 66.5
MISSOURI VALLEY	MAX MIN	93 74	96 72	96 77	94 74	94 70	95 72	96 77	91 72	88 67	87 53	85 60	90 64	86 64	81 61	87 57	87 57	88 65	95 71	94 56	87 65	84 68	90 58	88 67	92 73	93 73	92 69	87 70	92 73	80 64	81 52	86 58	89.5 66.2
MONMOUTH 4SW	MAX MIN	96 68	95 68	96 71	94 71	90 74	91 69	81 70	83 68	88 67	81 57	83 60	84 57	88 65	76 61	65 52	89 52	88 59	85 61	84 60	86 63	78 68	79 59	86 57	88 62	91 67	89 67	86 68	89 71	80 70	76 55	79 53	85.9 63.5
MOUNT AYR 2N	MAX MIN	94 75	92 68	94 73	91 72	89 70	91 69	89 74	87 73	87 71	81 59	76 60	80 61	86 61	75 62	80 61	83 57	85 63	92 65	86 69	82 75	83 66	85 71	90 62	91 73	91 72	87 73	93 75	84 70	80 60	82 58	88.8 67.9	
MOUNT PLEASANT	MAX MIN	97 76	97 69	98 74	97 72	92 72	94 72	87 72	89 73	90 72	85 61	86 59	85 60	89 63	76 63	85 58	88 63	88 69	88 68	85 66	84 65	91 63	87 62	89 71	90 73	92 72	93 75	87 76	95 75	86 66	82 60	84 60	89.6 67.9
MUSCATINE NO 1	MAX MIN	98 75	95 69	98 75	95 75	92 76	94 73	88 73	90 71	93 73	85 61	85 62	85 66	88 61	84 66	88 59	88 60	91 65	90 66	88 65	84 65	91 71	87 63	89 62	90 71	92 73	93 72	87 75	95 76	86 66	82 60	84 60	89.6 67.9
NEW HAMPTON	MAX MIN	95 65	93 59	93 67	93 66	91 66	91 66	84 67	84 65	86 65	86 51	87 51	86 50	86 54	80 48	87 54	88 56	87 59	87 50	85 58	83 56	82 48	82 52	83 66	91 65	91 65	84 65	87 64	91 62	80 58	78 45	82 44	86.5 58.2
NEWTON	MAX MIN	95 72	94 67	95 75	94 75	93 75	93 72	88 73	85 72	92 59	84 63	81 62	88 62	90 64	82 59	87 63	88 66	87 67	91 62	88 66	83 73	88 61	86 66	85 72	90 72	91 75	83 75	91 73	83 68	91 55	85 57	80 57	83 67.5
NORTHWOOD	MAX MIN	90 71	92 63	94 72	93 71	92 70	95 71	89 71	85 70	86 68	84 51	82 56	88 57	86 57	81 60	86 57	86 58	87 59	87 62	82 56	83 62	82 70	81 53	85 56	90 68	91 69	87 68	83 68	90 69	88 60	77 50	80 52	86.5 62.7
NORWICH 2E SCS FARM	MAX MIN	95 71	94 67	93 73	92 70	90 69	93 66	91 68	92 68	85 69	83 57	82 59	84 59	85 61	73 62	82 59	83 57	86 60	94 67	94 63	84 61	83 69	85 67	88 66	90 71	91 71	88 70	84 71	91 65	87 65	78 53	83 53	87.2 64.7
OAKLAND 2E	MAX MIN	96 72	93 73	94 73	93 73	91 70	93 69	92 71	90 71	85 55	83 57	82 57	85 60	86 59	76 61	83 57	84 55	85 59	92 59	88 59	82 65	81 65	85 66	85 66	89 72	91 72	88 70	83 74	91 70	87 51	82 55	86.8 64.8	
OELWEIN	MAX MIN	98 66	93 65	96 75	95 74	94 73	92 72	85 74	82 70	87 66	84 56	83 57	87 64	89 63	79 57	87 63	88 64	89 66	88 64	85 57	88 66	84 66	88 66	90 71	93 72	89 73	87 74	91 72	85 68	79 54	81 53	87.6 65.7	
ONAWA	MAX MIN	87 68	97 66	99 72	97 70	95 66	97 68	96 67	94 67	85 64	85 56	85 55	90 58	81 57	87 50	87 54	87 58	89 62	90 52	88 61	84 61	88 50	88 61	94 67	95 69	90 64	89 65	94 65	85 67	81 58	81 46	87 53	89.8 60.9
OSAGE	MAX MIN	89 71	91 61	93 72	93 71	91 69	91 71	86 71	85 70	84 69	81 53	80 55	85 57	85 60	78 61	85 54	85 58	85 59	88 62	81 54	82 62	83 70	79 53	83 55	90 69	90 69	85 68	84 69	90 62	85 51	74 49	79 49	85.2 62.7
OSCEOLA	MAX MIN	99 67	97 65	99 75	98 72	96 71	94 70	91 73	92 74	90 72	89 67	86 59	85 60	88 64	87 59	86 60	88 63	87 69	93 64	90 64	79 64	84 72	86 60	85 66	91 71	92 71	90 73	85 72	84 66	80 55	83 58	89.2 66.7	
OSKALOOSA	MAX MIN	96 72	94 66	95 73	94 72	90 73	94 72	90 72	87 73	90 71	84 62	80 61	86 65	90 61	80 65	86 63	87 59	88 62	88 64	87 67	90 62	88 66	83 66	80 72	86 63	85 64	91 72	90 75	85 74	81 73	78 57	84 56	87.9 67.7
OTTUMWA 1WSW	MAX MIN	96 74	93 67	95 73	94 72	90 72	92 73	89 73	90 74	86 71	80 62	83 61	88 65	85 61	84 65	88 63	88 59	88 62	88 64	88 64	88 64	90 64	88 61	85 72	89 63	92 71	91 74	86 74	85 74	92 72	83 60	83 52	88.5 67.2
OTTUMWA AP CAA	MAX MIN	96 71	92 67	94 75	92 75	87 75	92 73	88 73	87 73	90 71	83 61	80 61	82 65	87 64	82 66	83 61	85 65	86 66	88 66	86 67	88 74	80 65	88 66	90 72	90 72	89 74	85 74	90 75	89 75	85 67	79 58	82 58	86.4 68.4
PERRY 2SE	MAX MIN	94 69	91 66	92 71	91 73	92 72	90 73	87 73	81 73	85 73	80 57	80 60	85 58	87 62	79 53	87 56	89 58	90 69	87 56	83 64	79 65	84 55	83 64	91 71	91 71	87 71	86 72	91 72	85 67	78 52	84 51	86.6 64.6	
POCAHONTAS 2SE	MAX MIN	92 70	94 66	96 72	94 72	94 68	95 77	91 72	88 69	88 68	84 54	82 56	88 58	87 62	79 53	87 56	89 55	90 68	93 62	89 53	82 62	89 65	86 61	86 71	95 71	89 61	84 72	92 70	82 60	84 54	87 56	88.6 63.0	
PRIMGHAR	MAX MIN	91 67	95 67	97 73	95 71	95 70	96 70	93 72	86 68	81 65	84 55	83 59	89 60	85 61	79 55	86 58	88 61	88 61	85 62	87 56	84 63	88 54	88 61	95 70	97 72	90 67	87 67	92 70	86 55	77 49	85 55	88.4 63.1	
RED OAK	MAX MIN	96 72	94 67	93 74	92 73	91 69	94 71	93 69	91 74	86 66	85 56	82 58	85 62	87 58	75 63	85 57	85 53	87 57	95 69	91 57	84 66	83 68	87 54	88 68	91 72	92 72	90 69	84 72	90 63	80 54	78 54	82 54	87.6 64.8
ROCK RAPIDS	MAX MIN	86 65	97 67	98 72	96 72	95 70	96 71	96 64	85 65	79 65	81 53	83 60	86 61	81 60	78 57	83 55	85 56	86 65	82 62	84 54	86 65	81 62	85 62	89 70	96 74	96 67	89 70	88 73	85 55	76 49	86 55	86.9 63.1	
ROCKWELL CITY	MAX MIN	92 66	93 65	95 71	94 70	93 69	94 70	91 71	89 71	86																							

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Station	Day of month																															Average								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
SIGOURNEY	MAX MIN	95 72	93 67	94 74	92 75	88 75	91 76	89 75	88 71	89 75	83 61	80 60	85 62	88 63	79 67	84 61	88 62	85 66	87 66	87 65	84 65	89 73	86 62	85 64	90 73	91 76	90 77	84 74	92 75	84 67	79 58	82 59	87.1 68.3							
SIOUX CITY WB APT	MAX MIN	82 69	98 68	99 72	97 72	94 70	95 71	95 68	90 66	83 61	85 57	82 61	88 62	83 62	80 60	85 54	87 60	88 62	90 63	91 57	87 66	84 59	87 64	89 67	89 64	95 71	96 73	88 69	89 69	95 72	73 56	88 52	89 57	88.5 63.8						
SIOUX RAPIDS	MAX MIN	93 70	87 66	98 72	97 70	96 68	97 66	93 73	93 71	93 69	87 52	85 55	91 53	87 58	81 56	88 50											90 80	98 73	99 71	88 69	90 70	93 71	86 59	87 70	90 71	84 59	82 49	84 53	89 53	91.1 63.5
SPENCER 1N	MAX MIN	82 66	95 65	96 75	95 73	95 69	96 69	93 72	89 70	81 57	84 50	85 53	87 57	83 55	88 55	86 50	89 52	86 58	87 59	87 51	83 62	82 54	87 47	90 59	85 70	87 69	86 67	87 67	90 70	73 51	86 46	87 53	87.3 60.3							
STATE CENTER	MAX MIN	95 70	92 66	95 77	94 72	90 75	92 71	87 72	82 70	84 59	80 60	86 60	86 64	78 64	84 60	84 65	88 65	85 69	84 61	84 65	84 73	84 60	84 64	85 70	91 72	93 75	88 73	85 72	91 70	80 54	84 55	86.0 66.9								
STORM LAKE 2E	MAX MIN	87 66	91 67	92 74	91 74	90 71	91 72	89 72	89 71	82 69	82 53	79 57	85 61	85 59	78 57	85 52	85 58	87 60	90 64	86 53	85 61	82 72	83 55	84 61	90 72	93 70	86 67	84 69	89 72	83 62	77 50	84 55	85.9 63.8							
TINGLEY	MAX MIN	95 71	94 65	93 72	92 72	87 68	90 66	91 67	89 70	88 65	84 55	79 57	83 59	86 59	78 60	83 58	85 55	85 60	91 65	90 60	79 60	84 72	85 56	85 64	89 68	90 67	87 70	84 67	89 70	81 69	79 51	82 52	86.4 63.5							
TIPTON	MAX MIN	99 74	96 66	97 76	96 73	92 76	90 72	84 72	87 66	89 70	82 58	81 58	84 63	87 62	78 72	84 58	89 61	88 63	87 62	86 62	80 64	88 68	83 58	87 57	92 68	92 72	93 72	87 73	92 68	85 56	77 56	78 56	87.4 66.2							
TOLEDO	MAX MIN	95 69	91 64	93 73	92 73	90 72	88 71	83 71	83 71	87 56	81 59	79 58	83 58	86 59	80 64	84 56	87 60	88 61	86 65	84 59	82 63	88 72	82 57	82 62	91 71	91 71	87 69	84 73	91 72	86 71	88 54	82 53	86.0 65.2							
TRIPOLI	MAX MIN	95 70	94 64	94 74	94 73	94 72	88 73	86 71	87 70	84 56	84 57	86 57	89 60	85 64	88 56	88 59	89 63	88 64	85 58	85 64	86 69	83 56	85 58	91 71	92 70	91 73	86 72	92 72	88 69	83 53	82 52	88.3 64.9								
VINTON	MAX MIN	97 72	93 66	95 72	94 72	95 72	92 72	90 71	87 72	78 58	81 57	82 59	85 60	89 65	75 55	86 58	89 59	89 69	86 59	88 58	86 58	87 72	84 55	93 68	94 70	90 73	87 70	88 70	91 72	85 73	85 63	81 57	87.8 65.8							
WASHINGTON	MAX MIN	96 74	96 68	95 72	94 74	90 72	88 72	90 71	91 73	84 61	85 60	85 65	89 62	80 66	86 60	89 60	88 65	88 68	87 68	81 65	91 72	84 60											81 59	81 58	88.0 66.5					
WATERLOO	MAX MIN	94 68	90 65	92 74	92 73	90 74	89 72	84 73	82 70	85 71	79 55	79 59	82 57	87 60	79 63	83 57	86 60	86 63	86 66	83 66	82 65	86 71	86 55	80 58	90 68	91 71	88 72	87 71	90 68	86 53	81 51	85.6 64.9								
WAUKEE	MAX MIN	96 72	94 72	95 74	93 76	90 74	94 72	92 76	85 74	89 74	85 61	83 65	86 64	88 63	80 66	88 62	86 63	88 64	93 70	90 67	85 65	84 73	85 62	82 60	93 72	94 73	90 75	85 76	88 67	89 56	83 60	88.2 68.5								
WAUKON	MAX MIN	91 89	91 64	93 69	94 67	85 66	88 65	81 66	81 65	86 53	79 53	80 54	83 56	89 57	76 52	84 57	88 57	85 58	87 58	82 51	80 56	83 50	81 65	89 65	88 65	87 65	85 65	87 64	89 60	87 59	83 55	85.2 60.0								
WEBSTER CITY	MAX MIN	96 71	93 63	95 72	95 71	94 70	96 71	89 72	88 69	87 70	85 53	84 57	88 57	89 57	81 63	88 52	90 55	90 57	94 71	90 57	85 63	85 72	88 52	85 57	96 70	94 70	88 73	89 72	96 71	88 68	89 48	88 49	89.5 63.6							
WILLIAMSBURG	MAX MIN	94 71	89 66	92 73	90 72	87 73	87 70	83 71	84 72	87 60	79 60	78 61	81 65	83 60	81 60	85 60	85 62	85 65	82 63	80 63	88 73	81 61	83 62	88 69	90 72	89 69	83 72	89 73	84 70	75 57	78 58	84.5 66.3								
WIHTERSET	MAX MIN	95 71	92 69	93 74	91 71	89 72	92 76	94 73	89 76	86 72	80 58	84 60	87 63	81 62	83 60	86 59	86 63	93 65	92 69	85 60	82 64	83 73	84 59	90 67	90 71	90 71	85 74	90 72	89 73	89 62	87 59	82 56	87.2 66.8							
WOODWARD 7N	MAX MIN	93 69	90 66	93 72	90 69	88 72	92 70	89 74	86 71	87 71	85 59	81 60	87 60	87 60	78 64	87 67	85 60	87 59	92 68	86 59	82 63	84 72	84 67	91 65	92 70	86 69	85 72	91 71	84 65	79 52	82 55	86.6 65.9								

SOIL TEMPERATURES AT AMES, IOWA JULY, 1949

Temperature	4 feet above ground	Depth						
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches	72 inches
Average 7 a.m.	71.7	74.5	74.3	77.9	77.9	71.4		
Average 12 noon	82.7	91.1	89.2	80.0	77.2	71.7		
Average 7 p.m.	79.2	87.5	86.5	85.1	78.4	71.5	65.0	60.5
Highest	95	102	100	91	82	73	66	62
Date	1	6	3	6	12+	7+	16+	21+
Lowest	51	65	66	73	74	69	62	58
Date	31	30	30	22+	22+	1	1+	1+
Number of days with temperature								
0° or lower	0	0	0	0	0	0	0	0
24° or lower	0	0	0	0	0	0	0	0
32° or lower	0	0	0	0	0	0	0	0
40° or higher	31	31	31	31	31	31	31	31
50° or higher	31	31	31	31	31	31	31	31
60° or higher	31	31	31	31	31	31	31	24
90° or higher	9	20	16	3	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°.
Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

STATION INDEX

IOWA
JULY 1948

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Aiton	0064	Union	9 41 02	94 12	1200	6P	6P	Fred E. Lamb	2 3 5	Maquoketa 3 mi. E	5131	Jackson	12 42 02	90 35	1148	8P	8P	Otto J. Bivinger	2 3 5		
Akron	0088	Plymouth	1 42 49	96 33	1153	6P	6P	Orrin C. Moore	3	Marion 4 mi. NE	5163	Linn	4 42 03	91 39	886	5P	5P	Hybrid Seed Corn Co	3 4		
Albia	0112	Monroe	6 41 02	92 48	949	8P	7A	Arthur L. Freed	2 3 5	Marshalltown No. 1	5193	Marshall	10 42 03	92 54	4P	8A	Closed	6-1-40			
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5	Marshalltown No. 2	5198	Marshall	10 42 04	92 56	4P	8A	Raymond H. Hoopes	2 3 5			
Allerton	0149	Wayne	9 40 42	93 23				Herznan E. Reddy	3 4	Mason City 3 mi. N	5230	Cerro Gordo	4 43 11	93 12	1148	8P	8P	Am. Cry. Sugar Co.	2 3 5		
Allison	0157	Butler	4 42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Mason City AP CAA	5235	Cerro Gordo	4 43 09	93 20	1194	MID	MID	Airways Com. Sta.	2 3 4 5		
Alta	0173	Huachuca Vista	20 42 40	95 16	1513	7P	7A	F. Edna Allee	2 3 5	Merrill 5 mi. W	5478	Plymouth	7 42 43	96 20	8A	8A	Art. Husted	3			
Alton	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Milford 4 mi. NW	5478	Dickinson	18 43 23	95 11	1402	7P	7P	A. C. McKinstry	2 3 5		
Ames 3 mi. SW	0205	Story	21 43 00	93 39	1094	7P	7P	Charles W. Brown	2 3 4 5 6	Millerton	5517	Wayne	3 40 50	93 18	1070	6P	8P	J. C. Davis	2 3 5		
Anamosa 1 mi. NW	0213	Jones	27 42 07	91 16	873	7P	7P	State Reformatory	2 3 5	Missouri Valley	5584	Harrison	3 41 33	96 54	1068	7P	7P	S. William Sorensen	2 3 4 5		
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	Monmouth 4 mi. SW	5622	Jones	12 42 03	90 55	870	7P	7P	Arnold Bivinger	2 3 5		
Atlantic AP CAA	0369	Cass	16 41 24	94 59	1153	MID	MID	Airways Com. Sta.	2 3 4 5	Monona	5630	Jayston	14 43 03	91 22	922	6P	6P	Mrs. Anna M. Welter	3 4		
Audubon 2 mi. S	0385	Audubon	16 41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Monroe	5638	Clasper	6 41 31	93 06							
Augusta	0389	Des Moines	21 40 46	91 17	522	5A	5A	Glen Wood	2 3 5	Worse	5732	Johnson	10 41 44	91 28					Margaret R. Miller	3 4	
Bancroft	0463	Kossuth	6 43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Worse 1 mi. NE	5737	Johnson	10 41 45	91 28					Lawrence J. Wall	3 4	
Bartlett 3 mi. E	0493	Fremont	26 40 53	95 44				R. L. Kilpatrick	3	Worse 4 mi. SSW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4	
Beaver 1 N	0549	Boone	8 42 03	94 08				Wilfred E. Hunter	3 4	Mount Apr 2 mi. N	5769	Higgold	3 40 44	94 14	1214	6P	6P	H. L. Cornslinger	2 3 4 5		
Bedford 1 mi. N	0576	Taylor	28 40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Mount Pleasant	5796	Henry	31 40 57	93 32	730	6P	6P	A. M. Patterson	2 3 4 5		
Belle Plaine	0600	Benton	10 41 54	92 17	855	7P	7P	Walter C. Habe	2 3 5	Muscatine	5823	Woodbury	11 42 29	96 04	680	7P	7P	Einar W. Widmark	2 3 4 5		
Bellevue Lock & Dam 12	0608	Jackson	14 42 16	90 25	803	7P	7A	U. S. Engineers	2 3 4 5	Muscatine No. 1	5837	Muscatine	14 41 26	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5		
Blockton 2 mi. S	0745	Taylor	19 40 36	94 29	1081	5P	5P	Glenn A. Cobb	3	Muscatine No. 2	5842	Muscatine	14 41 25	91 03	546	7A	7A	Clifford McKee	3		
Bloomfield 2 mi. N	0753	Davis	8 40 47	92 28	825	7P	7P	Mrs. Leo Foster	2 3 5	Muscatine 6 mi. NW	5852	Muscatine	14 41 29	91 07					Closed	2-23-49	
Boone	0807	Boone	6 42 04	93 53	1126	8P	8P	E. G. Kolb	2 3 5	New Hampton	5952	Chickasaw	27 43 04	92 19	1156	7P	7P	Loddy Hrdlicka	2 3 5		
Britt	0923	Hancock	10 43 04	93 49	1234	6P	6P	Rev. D. A. Rust	2 3 5	Newton	5992	Jasper	21 41 42	93 04	950	7P	7P	Al A. Scheel	2 3 5		
Burlington WB Airport	1063	Des Moines	14 40 47	91 06	695	MID	MID	U.S. Weather Bureau	2 3 4 5	North English	6076	Iowa	4 41 39	92 05	780					Ernest E. Andrews	3 4
Carroll	1233	Carroll	20 42 04	94 52	1260	7P	7A	Ben H. Schenkelberg	2 3 5	Northwood	6103	Worth	4 43 37	93 13	1222	7P	7P	Charles A. Walker	2 3 5		
Cascade	1257	Dubuque	12 42 18	91 00	880	7P	7P	C. J. Weiers	2 3 4 5	Norwich EC5 Exp Farm 2E	6119	Page	22 40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5		
Castana 4 mi. E	1277	Monona	11 42 04	95 49				Bob Zimmerman	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16 41 19	95 23	1150	6P	6P	Ward D. Hetsche	2 3 5		
Cedar Falls	1300	Black Hawk	4 43 32	92 27	875	7P	7P	E. J. Cable	3	Oasis	6186	Johnson	10 41 43	91 24					Ed. Kadara	3 4	
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster	2 3 5	Oelwein	6200	Fayette	27 42 40	91 55	1036	6P	8P	Milo W. Franz	2 3 5		
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40				C. M. Simon	3	Onawa	6243	Monona	15 42 02	96 05	1050	7P	7A	W. J. Oliver	2 3 5		
Centerville	1354	Appanoose	5 40 43	92 53	1013	7P	7P	Earl McIntire	2 3 4 5	Osage	6305	Mitchell	4 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5		
Chariton 3 mi. E	1394	Lucas	5 41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Oscola	6316	Clarke	6 41 02	93 46	1136	6P	6P	Ray A. Kerne	2 3 5		
Charles City	1402	Floyd	4 43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Oskaloosa	6327	Mahaska	6 41 17	92 40	813	8P	8A	Cliff. Bergstromer	2 3 5		
Cherokee	1442	Cherokee	11 42 45	95 33	1356	7P	7P	J. Earl Wirth	2 3 4 5 6	Ottumwa 1 mi. SW	6388	Wapello	6 41 01	92 26	649	7P	7A	C. L. Miskaw	2 3 4 5		
Clarinda	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Ottumwa AP CAA	6389	Wapello	6 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5		
Clarion	1541	Wright	2 42 44	93 44	1170	7P	7P	George Bender	3 5	Ottumwa	6391	Wapello	6 41 00	92 24	620	7A	7A	Winfrey Kinnear	3		
Clinton No. 1	1635	Clinton	14 41 50	90 11	580	7P	7P	Samuel W. Williams	2 3 5	Perry 2 mi. SE	6396	Dallas	20 41 51	94 06	975	7P	7P	Eugene N. Hestie	2 3 5		
Clinton No. 2	1640	Clinton	14 41 50	90 11				David M. Swift	3	Pocahontas	6719	Pocahontas	6 42 44	94 40	1228	5P	5P	Thomas A. McMahon	2 3 5		
Columbus Junction	1731	Louisa	10 41 17	91 22	595	6P	6P	Alice Best	2 3 5	Pringhar	6800	O'Brien	11 43 05	95 38	1517	6P	6P	R. A. Ballard	2 3 5		
Coon Rapids	1793	Carroll	20 41 51	94 39				Charles W. Smith	3 4	Red Oak	6940	Montgomery	16 41 01	95 13	1077	8P	MID	Clarence M. Totty	2 3 5		
Corning 1 mi. W	1833	Adams	17 41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16 41 01	95 14					Mrs. E. M. Conrad	3	
Council Bluffs 6 mi. NE	1888	Pottawattamie	41 20	95 49				Mrs. H. O. Crane	3 4	Remsen	6975	Plymouth	7 43 49	95 58					Municipal P & L Pl.	3 4	
Council Bluffs 5 mi. NE	1889	Pottawattamie	41 19	95 49				Perry C. Crandall	2 3 5	Ringsted	7058	Emmet	6 43 13	94 30					H. C. Christiansen	3 4	
Cresco	1954	Howard	23 43 23	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Riverton	7085	Fremont	16 40 41	95 35	920	7P	7P	William Stubbs	3		
Creston	1962	Union	19 41 03	94 22	1300	7P	7A	Nellie Spangler	2 3 5	Rock Rapids	7147	Lyon	1 43 26	96 10	1341	7P	7P	George Baveling	2 3 5		
Cumberland 5 mi. NE	2007	Cass	17 41 18	94 55	1225	6P	6P	Carl E. Pollock	2 3 5	Rockwell City	7161	Calhoun	20 42 24	94 37	1223	7P	7P	F. C. Beltaepacher	2 3 4 5		
Cushing 3 mi. NE	2026	Ida	11 42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sac City	7312	Sac	20 42 26	94 59	1274	8P	8P	W. Floyd Wears	2 3 5		
Dakota City	2037	Humboldt	6 42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Saint Ansgar 2 mi. NW	7326	Mitchell	4 43 24	92 56					Donald R. Cowell	3 4	
Davenport WB City	2069	Scott	14 41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5	Saint Charles	7340	Madison	6 41 16	93 47					Rose E. Wise	3 4	
Decorah Dry Run	2110	Winnebago	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Sanborn	7386	O'Brien	7 43 11	95 39	1552	7P	7P	Miss Susie O'Dow	2 3 5		
Decorah 2 mi. S	2112	Winnebago	24 43 13	91 47	880	7P	7A	Charles Carlsen	2 3 5	Sheffield	7572	Franklin	4 42 54	93 15					Richard J. Galvin	3 4	
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Sheldon	7594	O'Brien	7 43 10	95 51	1418	7P	7P	Ross E. Forward	2 3 5		
Denison 1 mi. S	2171	Crawford	4 42 00	95 22				E. M. Hugg	2 3 5	Shell Rock	7602	Butler	4 42 43	92 25					Elmer J. Ayfel	3 4	
Derby	2195	Lucas	5 40 56	93 27				Lloyd A. Kirk	3 4	Shenandoah	7613	Page	16 40 46	95 23					Earl May Seed Co.	2 3 5	
Des Moines WB Airport	2203	Polk	6 41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5	Sibley	7664	Oscola	1 43 24	95 45	1494	6P	6P	H. D. Stewart	2 3 5		
Des Moines WB City	2208	Polk	6 41 35	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5	Signonsay	7678	Keokuk	21 42 20	92 12	780	7P	7A	Harsh A. Sanderson	2 3 5		
Dexter	2240	Dallas	6 41 30	94 14				Joseph H. Harlan	2 4	Sioux Center	7700	Sioux	1 43 05	96 12	1456	5P	5P	Richard J. Kroon	3 4		
Dorchester	2311	Allamakee	24 43 25	91 32				Hartley Wilder	3	Sioux City 8 mi. N	7703	Plymouth	15 42 36	96 24					Leo Vondrak	3	
Dubuque Lock & Dam 11	2346	Dubuque	14 42 32	90 39	816																

REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 8.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15¢ per copy; \$1.50 a year. (Yearly subscription includes Annual Summary). Correspondence regarding subscriptions should be addressed to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W. B. O., Kansas City, Mo. -- 9-9-49 -- 1170

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

AUGUST 1949

Volume LX No. 8



C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The weather during the month of August averaged seasonal and mild in temperature while precipitation continued deficient over a rather wide area. This rainfall was mostly in the form of air mass thundershowers which were local in nature and very erratic in pattern. The State average, 2.34 inches, (compared to a normal of 3.76 inches) does not completely reveal this variability that marked the rainfall pattern. The least rainfall for the month reported was .07 inch at Toledo in Tama County, while the heaviest was 8.93 inches at Davenport on the Mississippi. In some areas, it was extremely difficult to generalize on the rainfall since the gaging point may or may not have represented the county. These gaging points, about 200 in number, represent a total area for the State of 56,147 square miles. The driest area appeared to be in the north central, central, and portions of the east central and northeast. The effects of this deficient rainfall were accentuated since a good portion of this area had received deficient rain during July. The heaviest rainfall amounts occurred in the extreme east along the Mississippi River from Clinton County to Lee County.

The first 5 days of the month were cool and dry. This carry-over of dry weather from July had placed a heavy drain on soil moisture supplies. With the corn advancing into the critical ear stage, the Department of Agriculture estimated that 93% of the corn was silked by August 6, which was considerably ahead of the usual date.

The second period, from the 6th to the 19th, was marked by consistent above-normal temperatures, a number of humid days, and local thundershowers in all parts of the State. On the night of the 10th, rather general thunderstorms broke out over the State. An unusually intense and heavy rainfall in Clinton, Cedar, and Scott Counties in extreme eastern Iowa. At Davenport, 6.57 inches of rain fell in 24 hours--the greatest 24-hour total on record. Most of the rain there fell between 5:00 A.M. and 10:00 A.M. on the 11th. It was estimated that the rain caused a 1 million dollar loss in the Quad-City area with most of the loss from flooding of business buildings, factories, residences, and autos. One boy was killed by lightning and another was drowned in a drainage ditch. Twenty-four hour totals at Clinton, Tipton, and Moline, Illinois, were 3.69, 4.95, and 4.44 inches, respectively. On the evening of the 11th, a heavy rain hit the Des Moines area. In a 2-hour period, a record amount of 3.44 inches was recorded at the downtown station. The rain was of a very local nature since the Airport Station received only .42 inch. The extreme northwest and the extreme south also received generous rains on these dates, while many areas in the central and northern counties did not receive significant amounts. From the 5th through 12th, daily afternoon temperatures ran consistently near the 90° mark or higher. On the 6th and 7th, the readings generally were above 95°, reaching a high--and for the month--of 100° at Webster City, Cresco, and Decorah Dry Run on the 7th, and at Fayette on the 8th. These August readings, however, were far below the record high of 116° in August which occurred in 1934. Scattered and local showers continued until the 20th so that the moisture accumulations in the extreme northwest, southwest, and extreme east were partially restoring the dry soil conditions.

The last 10 days of the month were marked by a gradual decline in daily temperatures and very little rainfall. This period of dry weather saw a continuation of the decline in the condition of the corn in those areas receiving minimum amounts of moisture. By the last week of the month, the Department of Agriculture estimated that 2/3 of the corn crop was dented, which was a full week ahead of last year and 2 weeks earlier than in 1947. It was believed that with the present stage of development, there would be little or no damage from frost. Soybeans had held up well although reduction in yields were expected in central and some western points. The dry weather had made fall plowing more difficult than usual, but the work was progressing at the usual rate.

The extra map cut in this bulletin showing the total hail damage in 1948 was extracted from the annual farm census report in Iowa. This data was furnished by the Iowa Crop and Livestock Reporting Service, Des Moines, Iowa.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
AUGUST, 1949

Station	Sea level pressure extremes—_inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	Degree days 65° base
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	
Burlington WB Airport	30.25	21	29.82	31	8.8	47	SW	10	86	92	57	63	81	2
Charles City WB City	30.27	20	29.85	31	5.3	15	SW	5					74	8
Davenport WB City	30.25	21	29.77	31										2
Des Moines WB City	30.26a	21	29.82a	19	7.4	42	S	11	82a	91a	56a	56a	76	3
Dubuque WB City	30.25	20	29.74	31	4.6	17	SE	10					82	1
Sioux City WB Airport	30.22	21	29.80	8	7.1	36	N	11	83	91	56	56	74	6

a -- airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation			
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more	
1873	75.7	102	54	4.17			1903	69.1	101	41	6.64		11	1933	70.5	101	41	3.01		8	
1874	74.3	99	55	3.12			1904	69.1	97	35	3.43		7	1934	73.4	116	33	2.84		9	
1875	68.9	92	41	4.04			1905	74.3	104	44	4.05		9	1935	73.6	107	34	2.42		7	
1876	73.2	96	46	5.15			1906	74.1	101	33	3.95		9	1936	79.2	114	46	3.48		8	
1877	71.9	100	53	4.36			1907	71.1	99	37	4.33		9	1937	77.8	108	49	3.99		8	
1878	74.4	100	50	3.22			1908	70.0	101	38	4.77		9	1938	75.7	105	42	3.82		7	
1879	72.0	100	42	2.70			1909	76.1	103	33	1.81		5	1939	70.7	99	38	4.72		10	
1880	72.5	104	41	4.77			1910	71.9	104	36	3.88		8	1940	70.7	101	39	6.44		14	
1881	76.5	104	48	2.71			1911	71.7	107	34	3.32		9	1941	75.1	103	38	1.94		6	
1882	71.5	96	43	1.61			1912	71.0	101	40	3.78		10	1942	72.2	102	34	3.17		7	
1883	69.2	98	42	2.58			1913	76.6	108	40	2.68		6	1943	74.0	101	40	5.07		10	
1884	68.5	93	44	4.09			1914	73.7	103	40	2.19		7	1944	71.8	102	41	5.88		11	
1885	66.9	98	40	5.90			1915	65.9	91	30	2.81		8	1945	72.5	102	41	3.43		8	
1886	74.2	103	34	2.02			1916	74.0	106	35	2.58		7	1946	68.9	100	33	3.55		9	
1887	70.8	103	34	2.75			1917	69.4	102	31	2.29		7	1947	80.6	109	40	1.49		4	
1888	70.4	110	40	4.37			1918	76.0	113	38	3.61		8	1948	74.0	104	37	2.54		8	
1889	71.3	104	37	1.75			1919	71.5	103	38	2.59		7	1949	73.0	100	36	2.34		6	
1890	68.1	102	34	3.25			1920	69.3	98	39	3.35		7								
1891	69.1	106	34	4.24		8	1921	72.1	102	37	5.04		8								
1892	71.4	102	40	2.24		5	1922	73.8	102	42	3.06		8	PERIOD	72.3	116	30	3.57			
1893	69.4	101	30	2.32		5	1923	70.6	102	38	5.42		12								
1894	74.6	108	38	1.58		4	1924	71.7	100	40	5.35		10								
1895	71.9	103	37	4.43		7	1925	72.4	99	39	3.47		8								
1896	71.7	104	34	3.52		8	1926	73.5	103	47	3.80		10								
1897	68.9	104	35	1.86		6	1927	67.9	99	35	2.36		8								
1898	71.2	103	40	3.44		6	1928	72.7	100	37	6.42		9								
1899	74.4	100	41	3.68		7	1929	71.9	102	37	2.44		6								
1900	77.4	103	44	4.65		6	1930	74.4	113	41	2.42		8								
1901	73.8	105	40	1.29		5	1931	72.6	102	37	3.30		8								
1902	69.1	98	37	6.58		11	1932	72.2	100	43	7.10		12								

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
AUGUST, 1949

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	73.0	.4	94	6	49	31	6		1.55	-1.90	.46	19				9	3	
Alton	72.9	.9	93	6+	44	31	7		2.07	-1.18	.76	13				9	2	
Cherokee	72.8	.7	95	11	45	21	11		1.00	-2.30	.30	29				6	2	
Emmetsburg	71.9		94	7	48	21+	5		2.58		.90	11				7	5	
Estherville	73.5	3.3	98	6+	45	21	11		.61	-3.06	.29	16				4	1	
Hawarden	74.4	2.0	98	6	44	31	11		3.07	.07	1.10	13				10	3	1
Inwood 2 W	72.2	.4	94	6+	43	31	6		4.24	1.23	2.12	11				8	4	1
Lake Park	72.6 M	2.3														6	3	1
Le Mars	73.9	1.7	95	6+	47	31	10		2.04	-.84	1.10	13				8	3	
Milford 4 NW	72.6	2.5	95	7	45	31	8		1.77	-1.88	.70	11						
Pocahontas 2 SE			94	6+			8		1.40	-2.16	.45	13				6	2	
Pringhar	73.1 M	.6	96	7	43	31	10		1.77	-1.73	.70	11				7	3	
Rock Rapids	72.5	.9	95	6	45	30+	5		2.86	-.13	.75	19				8	5	
Sanborn	70.8	-.1	95	7	42	31	6		1.61	-1.89	.63	11				10	2	
Sheldon	72.1	.5	94	6+	44	31	7		2.44	-1.00	.80	10				11	4	
Sibley	71.2	1.6	92	6+	40	31	2		4.18	.69	1.93	11				6	6	1
Sioux Rapids	72.9	1.0	98	6	44	20	11		2.86	-.64	1.10	19				5	4	1
Spencer 1 N	70.5 M	-1.0			39	31			2.35	-1.25	1.32	11				6	2	1
Storm Lake 2 E	72.4	.5	92	6+	51	20+	4		1.32	-2.02	.97	19				8	1	
DIVISION	72.5	1.0							2.21	-1.17				0.0				
NORTH CENTRAL DIVISION																		
Algona	72.3	.9	93	7	50	20+	7		1.13	-2.94	.59	17				3	2	
Allison	73.2	2.0	95	7+	47	20+	12		.71	-2.99	.40	27				2	2	
Bancroft	73.8	3.6	96	7	46	31	10		.54	-3.16	.22	10				4		
Britt	71.6	.3	96	7	43	31	13		-.78	-3.26	.38	16				3	2	
Charles City	73.0	2.7	95	7	47	31	9		.88	-3.28	.55	11				3	1	
Clarion	72.5	1.0	96	7	44	31	10		1.81	-1.89	.75	10				5	2	
Dakota City	73.1	1.5	95	7	50	20+	9		1.65	-1.90	.64	17				5	2	
Forest City	70.8	.3	92	7+	40	31	7		.53	-3.27	.39	17				5	1	
Hampton	72.4	.7	92	6+	48	20	5		2.11	-1.63	1.65	11				5	2	1
Mason City 3 N	72.1	1.9	94	7	42	31	9		2.56	-1.60	1.80	10				4	3	1
Mason City AP CAA	71.8	1.6	93	7	43	31	8		1.06	-3.10	.63	10				5	1	
Northwood	72.1	2.4	93	7	42	31	8		.20	-3.96	.18	11				2		
Osage	72.3	1.4	94	7	45	21	8		.71	-2.78	.40	11				3	2	
DIVISION	72.4	1.5							1.13	-2.72				0.0				
NORTHEAST DIVISION																		
Cascade	72.3		95	7	42	21	8		.43		.40	11				2	1	
Cresco	72.6	3.1	100	7	45	31	10		1.87	-1.49	.57	1				5	4	
Decorah Dry Run	73.6		100	7	42	29+	13		1.05		.41	1				4	2	
Decorah 2 S	69.5	-.7	97	7	38	31	8		1.18	-3.00	.48	17				6	2	
Delaware 2 W	71.1	.7	96	7	43	21+	7		1.46	-2.24	.78	12				5	2	
Dubuque Lock & Dam 11	72.4	.3	94	7	50	31	2		3.03	-.63	1.34	11				6	4	1
Dubuque WB City	74.2	2.1	95	7	51	31	5		3.09	-.57	1.58	11				7	2	1
Elkader	72.6	2.5	98	7	41	31	11		1.97	-1.93	1.58	11	T			5	1	1
Fayette	72.0	1.9	100	8	39	31	9		3.04	-1.05	2.65	11				5	2	1
Guttenberg Lock & Dam	74.4	2.4	98	7	49	29+	10		1.36	-2.38	.95	11				7	1	
Independence 2 W	72.6	1.4	97	7	44	31	10		.67	-3.05	.60	11				3	1	
New Hampton	69.3	-.9	96	7	36	31	8		.85	-3.27	.42	17				6	1	1
Oelwein	73.3	2.3	96	7	45	31	7		4.07	-.21	3.87	11				2	1	
Saratoga 2 E	70.2 M															4	2	
Tripoli	73.7		97	7	44	31	8		1.45		.88	11						
Waterloo	72.8	.8	94	7	46	31	8		.45	-3.25	.45	11				1	1	
Waukon	71.0	-.5	96	7	46	31	8		.95	-3.00	.67	17				3	1	
DIVISION	72.2	1.3							1.68	-2.18				T				
WEST CENTRAL DIVISION																		
Audubon 2 S	72.3	-.4	92	7	45	22	6		2.60	-1.37	1.65	19				6	2	1
Carroll	74.0	1.9	97	6+	50	21+	14		3.21	-.97	.88	27				8	5	
Castana 4 E	72.6		92	6+	49	21	7		2.29		1.15	12				6	2	3
Cushing 3 NE	71.9	-.6	91	6	48	31	3		1.85	-1.55	.67	18				8	2	
Denison 1 S	73.6	1.0	94	6+	47	21	9		3.50	-.21	1.26	19				7	4	1
Guthrie Center	72.5	-.5	92	11	50	21+	5		2.99	-.99	1.69	19				5	4	1
Harlan	72.4	-.3	93	11	49	21+	3		1.40	-2.52	.70	19				4	2	
Ida Grove 4 S	73.9	1.4	96	6	50	31	13		3.91	.38	1.76	19				8	3	1
Jefferson	72.7	.5	94	7	52	20+	6		2.91	-1.04	1.60	19				6	2	1
Lake City	73.4	.9	97	6+	50	21+	12		4.71	.71	2.42	19				9	3	2
Logan	72.9	-1.3	94	6+	47	21	11		2.96	-.52	1.88	19				10	3	1
Mapleton 5 NW	72.8	-.1	94	6	48	21	6		2.44	-.96	1.03	19				6	4	1
Missouri Valley	75.0	.2	97	12	52	21	12		1.85	-1.55	.74	13	T			10	2	
Onawa			96	6+			11		4.47	.73	2.33	13				7	2	2
Rockwell City	72.4 M	.3	96	6	48	21	8		6.04	2.09	2.30	12				7	4	3
Sac City	74.9 M	2.8							2.54	-1.18	1.47	19				6	3	1
Sioux City WB Airport	73.7	1.2	95	6+	47	31	10		3.62	.80	1.77	13				6	5	1
DIVISION	73.2	.3							3.13	-.57				T				
CENTRAL DIVISION																		
Ames 3 SW	72.7	.3	94	7	48	31	8		1.98	-1.72	1.13	19				4	3	1
Boone	74.9	1.9	96	6+	51	21	16		2.09	-1.85	.91	12				7	4	
Des Moines WB Airport	73.7	.8	94	7+	49	31	9		1.76	-2.04	.89	19				7	2	2
Des Moines WB City	74.5	.5	95	11	51	31	9		6.52	2.72	3.52	11				8	2	
Fort Dodge	72.6	.9	95	7	46	20	10		1.60	-2.44	.93	27						

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
AUGUST, 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Grinnell	72.9	-.3	93	7	45	31	11		.50	-3.22	.22	12				5		
Grundy Center 4 NE	72.9	.9	94	6+	45	31	10		.86	-2.94	.39	11				5	2	
Iowa Falls 1 N	72.1	.6	95	7	46	31	8		1.58	-2.22	1.04	11				4	2	1
Marshalltown	74.4 M		96	7	48	20+	13		.66		.30	19				3	1	
Newton	74.8	1.5	94	7+	52	20+	10		1.06	-2.70	.38	19				7	1	
Perry 2 SE	72.3	-.3	94	6+	48	21+	6		4.77	.70	2.85	19				7	6	1
State Center	73.2 M	.5	94	7	49	31	10		1.61	-1.89	.64	19				5	3	
Toledo	74.0	1.8	95	7	48	20+	11		.07	-3.47	.03	12				5		
Waukec	75.5	2.2	96	11	52	31	13		.16	-3.77	.16	29				1		
Webster City	73.6	1.9	100	7	44	31	14		1.56	-2.14	.62	27				8	2	
Woodward 7 N	73.3	.3	93	6+	48	31	8		2.22	-1.78	1.07	19				6	4	1
DIVISION	73.6	.9							1.81	-1.99				0.0				
EAST CENTRAL DIVISION																		
Anamosa 1 NW	71.9	-.2	92	7+	43	31	5		.96	-2.84	.46	11				5	2	
Belle Plaine	73.5	1.2	95	7	45	31	11		.43	-3.23	.21	30				6		
Bellevue Lock & Dam 12	72.5	1.4	95	7	44	31	5		3.04	-.66	1.99	11				5	3	1
Cedar Rapids No. 1	73.2	.6	94	7	48	21+	8		1.94	-1.75	1.54	12				4	2	1
Clinton No. 1	73.2 M	.3	91	7+	50	31	4		5.54	1.55	3.37	11				8	5	1
Davenport WB City	75.0	.8	93	7+	53	31	6		8.93	5.34	6.57	11				10	5	1
Iowa City	73.2	.5	93	7	48	31	6		2.34	-1.62	1.32	11				7	3	1
Iowa City AP CAA	72.6	-.1	94	8+	45	31	9		2.50	-1.46	1.28	11				7	2	1
Le Claire Lock & Dam 14	74.6		93	7+	55	31	3		5.22	1.69	2.11	12				8	5	2
Maquoketa 5 E	73.0	1.8	94	7	48	31	6		2.65	-1.25	1.66	11				6	4	1
Womouth 4 SW	71.2	-.8	93	7+	41	31	3		1.76	-2.09	.77	11	T			4	3	
Muscatine No. 1	74.5	1.1	95	7	49	31	6		4.94	.89	1.95	19				7	5	2
Tipton	73.2	.5	95	7+	48	21	5		7.20	3.15	4.95	11				8	5	1
Vinton	72.5	.2	95	7	43	21	10		1.10	-2.55	1.10	12				1	1	1
Williamsburg	72.1	-.5	91	7	50	31	2		1.79	-1.86	.87	19				6	3	
DIVISION	73.1	.6							3.36	-.47				T				
SOUTHWEST DIVISION																		
Atlantic 1 E	72.5	-1.3	92	6+	47	21	8		2.42	-1.67	1.17	19				7	2	1
Atlantic AP CAA	70.4	-3.4	92	6+	41	31	5		1.79	-2.30	.90	18				9	3	
Bedford 1 N	72.6	-1.5	92	11	50	31	4		2.41	-1.69	1.55	12				4	3	1
Clarinda	72.8	-1.9	95	6+	45	31	13		1.18	-2.82	.46	28				6	1	
Corning 1 W	73.6	0.0	95	7	49	31	11		1.56	-2.38	.65	27				4	2	
Council Bluffs 5 NE	72.4 M		93	7+	47	21	7		3.56		3.31	19				7	1	1
Glenwood 2 E	72.9	-2.5	93	11+	46	31	9		3.63	-.10	1.95	19				7	3	1
Greenfield	72.6	-.1	91	11	48	31	3		2.31	-1.47	1.35	12				4	2	1
Norwich BCS Farm 2 E	72.6	-2.4	94	16	46	31	11		1.22	-2.83	.53	27				7	2	
Oskland 2 E	72.3	-1.9	93	16	43	31	6		1.56	-2.44	1.32	19				6	1	1
Red Oak	72.7	-1.8	94	16	44	31	10		1.31	-2.79	.56	18				6	2	
Shenandoah	74.4	-2.1	95	11	48	31	11		2.63	-1.47	.83	12				8	3	
Sidney	74.9		96	12	53	21	13		1.35		.55	13				6	2	
DIVISION	72.8	-1.8							2.07	-1.88				0.0				
SOUTH CENTRAL DIVISION																		
Afton	70.5	-3.8	92	6+	43	31	4		2.00	-2.15	1.25	12				6	2	1
Albia	73.4	-.6	92	7	49	21	7		2.37	-1.35	.93	12+				6	3	
Centerville	73.6	-1.1	92	7	49	31	6		2.95	-.78	2.19	11				5	2	1
Chariton 3 E	72.1	-1.4	93	11	46	31	6		1.99	-1.73	.84	19				4	2	
Creston	72.4	-.8	92	6+	45	31	5		2.01	-1.98	1.58	12				7	1	1
Indianola	75.0	.9	96	6+	50	31	14		1.52	-2.44	1.16	19				7	1	1
Knoxville 2 W	73.7	-.3	94	7+	44	21	9		1.78	-2.40	1.12	19	T			4	2	1
Lamoni	73.0	-1.2	93	8	49	31	5		4.38	.43	2.61	11				8	3	1
Millerton	73.0	-1.2	91	7+	49	31	2		2.42	-1.10	1.20	11				6	3	1
Mount Ayr 2 N	72.9	-1.5	93	6+	49	31	5		4.48	.36	2.60	12				5	4	1
Osceola	73.9	-.1	94	6+	50	31	9		1.47	-2.38	.64	12				4	3	
Tingley	71.0	-3.2	91	6+	46	31	3		3.41	-.69	2.11	12				6	3	1
Winterset	73.4	-.9	93	11	51	31	5		2.31	-1.33	1.45	19				5	3	1
DIVISION	72.9	-1.2							2.55	-1.34				T				
SOUTHWEST DIVISION																		
Burlington WB Airport	74.5	.6	96	7+	50	31	12		1.58	-1.86	.55	19				6	3	
Fairfield	73.7	0.0	94	8+	48	31	8		1.88	-1.82	.66	19				5	4	
Keokuk Lock & Dam 19	76.0	.2	92	8+	56	20	6		3.23	.10	1.47	20				6	3	2
Keokuk WB City	75.5	-.3	93	7+	53	31	7		3.85	.72	1.71	19				6	3	2
Keosauqua State Park	73.1	-1.4	91	7+	51	21	2		4.31	.89	1.77	19	T			4	4	2
Mount Pleasant	74.4	.1	96	7	50	21+	8		6.15	2.39	3.08	19				4	4	2
Oskaloosa	74.1	.8	95	7+	48	31	10		1.94	-1.81	.91	19				7	2	
Ottumwa 1 WSW	74.3	-.9	94	7	48	31	7		3.60	-.26	1.62	19	T			4	3	2
Ottumwa AP CAA	74.3	-.9	92	7+	50	31	5		4.24	.38	1.84	11				4	4	2
Sigourney	74.4 M	.6	95	7+	52	31	10		2.52	-1.06	1.04	11				5	3	1
Washington	74.3	1.0	94	7+	49	31	9		1.66	-2.23	.69	12				6	2	
DIVISION	74.4	.3							3.18	-.46				T				
STATE	73.0	.4							2.34	-1.42				T				

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
AUGUST, 1948

Table 3

Station	Day of month																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Afton									T	.05	.05	1.25							T	.30						.02	.01	.18	.17					2.00	
Akron	.85								.82	1.81		.40	.80					.08	.48	.52								.02	.02					2.43	
Albia									T		.17	.93								.06								.02	T	.26				2.37	
Algona										.08	.46							.59																1.13	
Allerton	R								.10	1.56	1.25	.05								.12														3.08	
Allison									T		.31						T											.40						.71	
Alta										.32			.06	.04			.02	.14		.46									.14	.09				1.55	
Alton									.20	.41			.76				.21	.05	.12							.06			.08					2.07	
Ames 3 SW	Z	.18							T		.27	.56					T	1.13										T					1.88		
Anamosa 1 NW		.03								.08	.46	.02																.37						.86	
Atlantic 1 E									T	.08		.88					T	.03	1.17									T	.03	.21	.02	T		2.42	
Atlantic AP CAA	Z //								.07	.02	.28	.03			.03			.90	.29								.02	.15				T	1.79		
Audubon 2 S									.06	.24	T								1.65								.01	.49	.15					2.60	
Augusta										T	1.60								.28								.40							3.00	
Bancroft									.22	.11					.02	.19																		.94	
Bartlett 3 E									.66				T		.93			.78	.25								.26							2.80	
Bedford 1 N									.29		1.55								.18							.39								2.41	
Belle Plaine		.06	T						.06	.01	.07							T	.02										T	.21				.43	
Bellevue Lock & Dam	Z	.01	.41								1.99	.14					.49																	3.04	
Blockton 2 S										.83		1.32							.40								.47							3.02	
Bloomfield 2 N																																			
Boone										.38	.03	.91						.05	T	.38						.29		.05						2.09	
Britt										T	.29							.11									T							.78	
Burlington WB Airport	Z //									.49	.44								.55								.04	.01	.03					1.38	
Carroll									.12		.71							.37		.63							.88	.08	.30					3.21	
Cascade	Z	T								T	.40						T								T				.03					.43	
Castana 4 E											.06	1.15	.16					.14	.54								.24							2.29	
Cedar Falls									.02	.30	.48															.13				.38				1.31	
Cedar Rapids No. 1										T	.27	1.54	T				T		.04								T		.09				1.94		
Cedar Rapids No. 2						T				T	.83	1.47	T				T		.02							T		T	.13				2.45		
Centerville	Z								.02	.07	2.19								.62										.05					2.95	
Chariton 3 E										.24	.75								.84									.16						1.99	
Charles City	Z									.24	.55						T										.09			T			.86		
Cherokee	Z	T							T	T		.20	.11				.28	.02	.22								.07	.39						1.00	
Clarence		.22									1.30	.20						T	.14									.35						2.21	
Clarinda										.20	.13	.11		.06					.22								.46							1.18	
Clarion										.75	.18							.20	.03							.65		T						1.61	
Clinton No. 1		.10								.72	3.37	.04						.60	T	.01						.25			.45					5.34	
Clinton No. 2		.03	.03							3.00	1.29							.26	.24	.04							.26		.30						5.55
Columbus Junction																																			
Coon Rapids	R	.13									.40					.48	.02	.19	.91							.24	.09	.25	.02					2.71	
Corning 1 W										.15	.54							.22								.65								1.56	
Council Bluffs 6 NE	R								.04	.03	.15							.95	2.19							.02		.05						3.43	
Council Bluffs 5 NE		.01								T		.14	T		.01			.04	3.31							.02			.03					3.56	
Cresco		.57							.40	.15							.42									.33								1.87	
Creston										T	.19	1.58			.03			.02	.02	.02								.15	T					2.01	
Cumberland 5 NW		T							T	.04	.42	T	T				.01	1.11								T	.10	.10						1.78	
Cushing 3 NE		.05							T	.03	.02	.23				T	T	.67	.63								.05	.17						1.85	
Dakota City	Z									.11	.58							.64	.10							.22	T	T						1.65	
Davenport WB City	Z	.44								.10	6.57	.12	T				T	.10	.32							.64	.46	.14	.02					8.93	
Decorah Dry Run		.41							T	T						T	.38									.17			.09	T				1.05	
Decorah 2 S		.38								T	.11						.48									.09	.05		.07					1.18	
Delaware 2 W		.04								.05	.57	.78															.02								1.48
Denison 1 S		.06								.10	.88					.35		1.26								.69	.18							3.30	
Derby	R								.40	.20	1.10	.03						.61							.15	.11								2.60	
Des Moines WB Airport	Z	.03							T	.13	.29							.01	.89							.23	.18							1.78	
Des Moines WB City	Z	T							T	.02	3.52	.01			.04			T	2.54						.21	.18								6.52	
Dexter	R	.10								.38	.02							.10	2.55								.20								3.35
Donnellson 4 N										.09	.76							.07	.73								.08								1.73
Dorchester										.35																									.49
Dubuque Lock & Dam 11		.35	T								1.34	.65						.60								.07		.02						3.03	
Dubuque WB City	Z	.20								.19	1.58		T				1.01									.05			T	.02				3.08	
Dumont 4 NW											.69								.03																.72
Dunbar 2 NE		T								.02	T							.02	.74											.08				.86	
Eddyville											.75							.20	.51								.26								1.72
Eldora									T							.21		T									.45	.09						.70	
Elkader										.15	1.58							.10	.10								.12								1.87
Emerson 5 NE										.01								.34	.06								.10		T						.61
Emetsburg										.46	.90		.30		.25	.52		.05									T	.10						2.58	
Estherville																																			

HOURLY PRECIPITATION

Table 4

IOWA
AUGUST, 1949

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-1st-																									
BEAVER 1N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.21	.19	-	-	-	-	-	-	-	.40
BELLEVUE L/D 12																									.13
COON RAPIDS	.02	.01				.10																			.44
DAVENPORT WB CITY																					.30	.14			.03
DES MOINES WB APT																									.10
DEXTER																									.20
DUBUQUE WB CITY			.07	.07	.06																				.10
IDA GROVE 4S				.10																					.20
IOWA C RALSTON CRK 1																									.17
KNOXVILLE 2W																									.30
MONONA		.25	.05																						.07
MUSCATINE NO 1																		.07							.06
ROCKWELL CITY							.05		.01																.06
SAINT ANSGAR 2WNW																									.15
SIOUX CENTER				.14		.01																			.19
SPILLVILLE	.09	.07	.02	.01																					.01
TABOR 6NW	.01																								.19
WHEATLAND																.01	.18								.19
-9th-																									
ALLERTON																.09	.01								.10
ATLANTIC AP CAA																					.06	.01			.07
CENTERVILLE																.01	.01								.02
COUNCIL BLUFFS 6 NE																									.04
DERBY															.05	.35									.40
GREENFIELD																									.08
HARTLEY 3S																						.04	.02	.02	.08
HINTON 5WNW																									.28
HORNICK																									.17
LAMONI																.11							.04	.02	.07
LARRABEE																.07									.07
MISSOURI VALLEY																									.10
MOVILLE																									.05
REMSEN																									.13
SHEFFIELD																									.33
SHELL ROCK																.20									.20
SIOUX CENTER																.05									.05
SIOUX CITY WB APT																									1.60
SOLDIER																.03									.10
SPENCER 1N																									.05
WOODBINE 5SE																									.04
-10th-																									
ALLERTON									.89	.10						.49	.08								1.56
AMES 3SW																					.05	.17	.02		.34
ATLANTIC AP CAA					.01				.02																.03
BELLEVUE L/D 12																									.54
BURLINGTON WB APT																									.49
CENTERVILLE									.03	.05															.08
CHARLES CITY																.05	.06							.01	.24
COUNCIL BLUFFS 6 NE																									.03
DAKOTA CITY																									.65
DAVENPORT WB CITY																									.10
DERBY																									.20
DES MOINES WB APT																									.13
DES MOINES WB CITY																									.02
DEXTER																									.02
DUBUQUE WB CITY																									.38
FOREST CITY																									.19
GRINNELL																									.04
HAMBURG																									.08
HARTLEY 3S		.01	.04				.01	.04																	.10
IOWA CITY AP CAA																									.07
IOWA C RALSTON CRK2																									.03
IOWA C RALSTON CRK3																									.03
IOWA C RALSTON CRK4																									.03
IOWA C RALSTON CRK5																									.05
IOWA FALLS 1N																									1.00
KEOKUK WBO																.60									.60
KNOXVILLE 2W																.04	.02								.46
LAMONI							.10	.06	.09							.40	.01								.38
LENEX									.02	.06						.11	.01								.26
MARION 4NE																									.07
MARSHALLTOWN NO 2																									.18
MASON CITY AP CAA																.03	.02								.12
MONONA																.04	.02								.10
MORSE																									.12
MOUNT AYR 2N																									1.12
MOUNT PLEASANT																									2.13
MUSCATINE NO 1																.22	.01								.72
MUSCATINE 6N																									.70
NORTH ENGLISH																.30	.30	.08	.02						.20
NORWICH 2E SCS FARM																.16									.19
OASIS				.02			.02	.02	.13																.13
OTTUMWA 1WSW																									1.06
OTTUMWA AP CAA																.22	.02								.21
REMSEN	.01	.01	.02													.10									.14
RINGSTED																									.04
SAINT CHARLES																									.10
SHEFFIELD										.02	.02	.01	.02	.02	.02							.01			.35
SHELL ROCK																									.36
SIOUX CENTER	.02	.02	.01	.02																					.07
SOLDIER		.01	.01																						.11
SPENCER 1N	.08	*	*	*	*	*			.02																.09
SPILLVILLE																.09									.16
STRAWBERRY POINT																.13	.01	.01	.05						1.21
TRAEER																									.12
WALLIN 2WNW				.08	.01		.01	.02																	.08
WASHINGTON																									.50
WEBSTER CITY																									

HOURLY PRECIPITATION

IOWA
AUGUST, 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
COON RAPIDS											.01	.37	.02												.40		
COUNCIL BLUFFS 6 NE																								.15	.15		
DAVENPORT WB CITY			.04	.02	.15	.35	1.08	2.66	1.36	.56	.03										.32			6.57			
DERBY																						.90	.09	.06	.05	1.10	
DES MOINES WB APT																		.01	.01	.17	.10				.29		
DES MOINES WB CITY																		.05	.16	.99	2.27	.05			3.52		
DEXTER	.01	.01																							.02		
DUBUQUE WB CITY		.17	.28	.53	.23	.05			.01												.31				1.58		
FOREST CITY									.03	.01															.04		
GREENFIELD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.21		.17	1.07	.04	1.49	
GRINNELL																						.08			.08		
HAMBURG																								.36	1.18		
HARTLEY 3S					.13	.02	.36	.31															.32		.32		
HINTON 5WNW																						.16	.14	.01	.31		
HORNICK									.10	.73	.02														.85		
IDA GROVE 4S		*	*	*	*	*	.40	*	*	*	*	*	*	.20	*	*	*	*	*	*	.68				-		
IOWA CITY AP CAA	6						.20	.30	.02									.51	.03						1.24		
IOWA C RALSTON CRK2		.01	.01	.16			.20	.30	.02									.62							1.26		
IOWA C RALSTON CRK3			.01	.01	.01	.01	.15	.46										.93	.02						1.56		
IOWA C RALSTON CRK4				.02		.11	.46	.02										1.30	.01						2.04		
IOWA C RALSTON CRK5			.05			.32	.34	.02																	.10		
IOWA FALLS 1N								.10														.18	.92	.01	.07	.02	1.20
KEOKUK WBO																						.56	.69	.58	1.83		
LAMONI																									.02		
LARRABEE			.02																				.25	.01	.26		
LENOX					.02	.24	.22	.08	.01	.01													.06		.64		
MARION 4NE																					.14				.14		
MARSHALLTOWN NO 2		*	*	*	*	*	.16	*	*	*	*	*	*	.02											-		
MASON CITY AP CAA	6																								.20		
MONONA		.13	.07															.97	.12						1.54		
MORSE					.02	.16	.27							.01	.01	.01	.01	.01	.01						1.50		
MORSE 1NE		.01	.01	.02	.03	.03	.42											.83	.09	.01					1.39		
MORSE 4SSW			.07	.02	.09	.09	.53											.01	.58		.19	.34	.59	1.47	.01	2.60	
MOUNT AYR 2N																		.01	.19	.20					.40		
MOUNT PLEASANT																						.02	.02	.01	.05		
MOVILLE				.21	.27	.14	.18	.16	.01									.03	.46	.04					1.50		
MUSCATINE NO 1			.23	.27	.14	.51	.04											.53	.15	.93	.01				2.13		
MUSCATINE 6N					.01	.05	.01																		.75		
NORTH ENGLISH		.01	.03	.02	.03	.17	.23	.44										1.23				.56	.26		2.16		
OASIS												.09										1.45	*	*	*	.91	
OTTUMWA 1WSW																									-		
OTTUMWA AP CAA	6	.01				.17	.22		.03	.01	.01	.01													.46		
RINGSTED																							.14	.06	.20		
SAINT CHARLES																									.05		
SHELL ROCK		.05																				.01	.19		.26		
SIoux CITY WB APT								.06															.87		1.56		
SOLDIER		*	*	*	*	*	1.10	*	*	*	*	*	*	.22											-		
SPENCER 1N	6	.46	.19	.14	.10	.02	.01	.14																	.92		
STRAWBERRY POINT					.01	.01	.14											.62	.03						.16		
TRAE																									.68		
WASHINGTON		.01		.01	.01	.06																			.06		
WEBSTER CITY				.42	.08	.28	.04	.56	.09	.06								.05	.13					.13	1.71		
WHEATLAND																									.13		
WOODBINE 5SE																									.13		
-12th-																											
ALLERTON		.04	.01																						.05		
AMES 3SW			.34	.18	.01	.02	.01																		.56		
CENTERVILLE		.09	.02	.03	.01																				.15		
DAVENPORT WB CITY							.05	.07																	.12		
DERBY		.03																							.03		
DES MOINES WB CITY					.01																				.01		
GRINNELL					.09				.03																.12		
HARTLEY 3S		.59	.02	.02																					.63		
IOWA C RALSTON CRK1																									.14		
KEOKUK WBO		.05	.04	.02	.01	.01	.01																		.05		
LAMONI		.02	.01	.01	.01																				.03		
LENOX			.02	.01																					.06		
NORWICH 2E SCS FARM		.06																							-		
OTTUMWA AP CAA	6	.39																					.02		.02		
REMSSEN		.05	2.04	.13	.01	.02																			2.25		
ROCKWELL CITY		.25	.01	.01																					.27		
WALLIN 2WNW																									-		
-13th-																											
CHEROKEE				*	*	*	*	.11							.42	.40	.06	.08	.03	.01					.11		
HAMBURG																									1.00		
BINTON 5WNW		.04	1.05	.37	.05	.55	.06	.02	*	.01															2.15		
HORNICK			.01	.02	.30	.08	.05																		.46		
IDA GROVE 4S					.07	.09	.02																		.18		
LARRABEE						.03	.02	.01																	.06		
MISSOURI VALLEY						.32																			.71		
MOVILLE			.02		.28	.18									.08	.06		.08	.06	.01					.48		
NORWICH 2E SCS FARM																									.29		
REMSSEN		.15	.14	.06	.08	.06	.05	.03										1.08	.14						.57		
ROCKWELL CITY																									1.22		
SIoux CENTER		.05	.11	.14	.09	.07	.08	.15																	.69		
SIoux CITY WB APT		.22		1.06	.44	.04	.01																		1.77		
SOLDIER					.08	.14	.05											.01	.05						.29		
TABOR 6NW																					.01	.05			.06		
WALLIN 2WNW																					.02	.01			.03		
WOODBINE 5SE							1.73																				

HOURLY PRECIPITATION

IOWA
AUGUST, 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
TABOR 6NW							.01		.01	.03	.02	.13	.15	.02	.02										.39		
TRAEER		.01		.01																					.02		
WALLIN 2WNW	.22	.03	.01																						.26		
WASHINGTON					.04	.01	.05	.06	.13	.08	.05	.05	.06	.05											.58		
WHEATLAND	.46	.04																							.50		
WOODBINE 5SE						.54	1.99	.29	.25	.02	.01		.02	.04	.01										3.17		
-20th-																											
LAMONI			.01																						.01		
-23d-																											
DUBUQUE WB CITY					.03	.01																			.04		
MONOKA				.08																					.08		
-24th-																											
REMSEN																									-		
-25th-																											
HINTON 5WNW				.09	.01		.03	.07																	.20		
-26th-																											
CHEROKEE														.05											.05		
MISSOURI VALLEY									.07	.06															.13		
-27th-																											
AMES 3SW													.02												.02		
ATLANTIC AP CAA																							.01		.01		
BURLINGTON WB APT																.03				.01					.04		
CHARLES CITY						.01	.06			.01	.01														.09		
COON RAPIDS							.01	.09	.09	.04	.01														.24		
COUNCIL BLUFFS 6 NE																									.02		
DAKOTA CITY					.03	.01	.01	.05	.04	.06															.20		
DAVENPORT WB CITY															.19	.43	.02								.64		
DERBY															.10							.01	.04		.15		
DES MOINES WB APT													.14	.06	.02	.01									.23		
DES MOINES WB CITY													.14	.07											.21		
DUBUQUE WB CITY															.05										.05		
GRINNELL																									-		
HAMBURG										.69	.12	.07	.10	.03											1.01		
IDA GROVE 4S									.02	.01															.03		
IOWA CITY AP CAA	6													*	*	*	*	*		.02					.06		
IOWA C RALSTON CRK1																.06									.07		
IOWA C RALSTON CRK2															.01	.05	.01								.05		
IOWA C RALSTON CRK3																.04	.01								.07		
IOWA C RALSTON CRK4															.01	.05	.01								.06		
IOWA C RALSTON CRK5															.02	.02	.02								.03		
IOWA FALLS 1N			.03																						.08		
KEOKUK WBO																									.13		
LAMONI														.08	.06	.04			.01	.02					.18		
LENOX														.13	.06	.02	.02								-		
MASON CITY AP CAA	6	*	*	*	*	*	.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.10		
MORSE															.07	.03									.14		
MORSE 1NE															.12	.02									.05		
MORSE 4SSW														.01	.03	.01									.42		
MOUNT AYR 2N													.02	.28	.06	.03	.03		.03						.55		
MOUNT PLEASANT														.52	.03										.05		
MUSCATINE NO 1															.02	.03									.27		
MUSCATINE 6N															.24	.03									.64		
NORTH ENGLISH													.63	.01											.53		
NORWICH 2E SCS FARM										.02	.23	.09	.10	.08	.01										.10		
OASIS															.06	.04									.03		
RINGSTED								.01	.01	.01															1.49		
ROCKWELL CITY								.35	.49	.56	.09														.14		
SAINT CHARLES														.01	.01	.02									.24		
SHEFFIELD								.10	.04	.08	.02														.05		
SHELL ROCK						.01	.04																		.24		
SOLDIER							.02	.04	.06	.09	.03														.05		
SPENCER 1N	6																				*	*	*	*	.23		
SPILLVILLE								.02	.03																.20		
TABOR 6NW										.03	.03	.09	.07	.01											.20		
WALLIN 2WNW												.11	.06	.01	.01			.01							.20		
WASHINGTON													.17	.03											.62		
WEBSTER CITY						.09	.19	.19	.04	.05	.06														.10		
WHEATLAND																						.10			.38		
WOODBINE 5SE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.38										.38		
-28th-																											
CENTERVILLE																	.01								.01		
CHEROKEE																			.05	.20	.09				.34		
COON RAPIDS																				.05	.02	.03			.09		
HARTLEY 3S																									.10		
HINTON 5WNW																			.11	.08					.19		
HORNICK																				.09	.02	.02	.01		.14		
IDA GROVE 4S																									.04		
LARRABEE																				.03			.01		.03		
MOVILLE																			.01	.14	.01		.01		.17		
REMSEN																									-		
SIoux CITY WB APT																									.27		
SOLDIER																									.09		
SPENCER 1N	6	.20																		*	*	*	*	*	.02		
WOODBINE 5SE																						.01	.01		.02		
-29th-																											
ATLANTIC AP CAA				.09																					.12		
BURLINGTON WB APT																							.01		.01		
CASCADE																						.06	.06		.12		
CENTERVILLE	.02	.01																							.03		
CHEROKEE														.01											.01		
COON RAPIDS	.05	.08	.02		.01		.03										.05	.01							.25		
COUNCIL BLUFFS 6 NE																									.05		
DAVENPORT WB CITY																						.16	.27	.03	.48		
DERBY							.06	.02	.01	.02															.11		
DES MOINES WB APT			.02	.04						.06	.06														.18		
DES MOINES WB CITY	.02		.02	.01				.02	.01	.04	.03												.03		.18		
DEXTER		.04	.04		.02				.09	.01															.20		
GREENFIELD		.02		.05	.03																				.10		
GRINNELL																							.02		.02		
HORNICK	.01</																										

DAILY TEMPERATURES

IOWA
AUGUST, 1949

Table 5

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
AFTON	MAX MIN	83 52	80 54	81 53	85 58	88 55	92 58	92 61	90 63	89 64	82 64	92 66	88 63	85 67	84 65	86 62	88 62	88 63	82 59	72 60	76 50	77 48	80 47	85 52	86 53	86 54	87 57	75 59	80 50	84 55	80 55	74 43	83.8 57.2	
ALBIA	MAX MIN	83 63	81 55	84 54	86 57	87 63	90 65	92 68	91 70	89 68	85 67	91 71	89 66	88 68	87 66	90 64	91 65	89 64	88 69	82 61	71 62	78 50	80 49	81 55	86 58	88 61	88 62	88 62	82 57	83 57	85 58	80 50	76 50	85.2 61.6
ALGONA	MAX MIN	77 65	76 56	78 55	83 59	88 59	92 68	93 66	91 65	85 67	86 68	81 70	83 69	85 67	85 64	87 65	85 62	85 64	77 67	76 50	73 51	77 56	83 59	90 60	90 62	91 62	90 64	78 67	83 51	82 57	75 53	68 50	83.0 61.5	
ALLISON	MAX MIN	82 62	80 50	85 53	88 54	89 61	94 65	95 63	95 66	92 68	90 65	91 68	86 69	85 68	86 64	90 65	90 68	88 64	85 62	82 60	74 47	82 52	80 54	94 64	92 60	93 60	93 62	78 62	81 53	82 54	80 54	72 47	86.3 60.1	
ALTA	MAX MIN	80 66	78 55	80 56	84 59	89 62	94 68	93 68	90 68	84 69	81 70	91 70	86 68	84 67	84 67	86 65	92 68	89 62	79 64	74 64	73 53	77 52	84 57	89 62	91 60	89 64	89 64	79 68	85 54	78 59	74 54	67 49	83.6 62.4	
ALTON	MAX MIN	82 63	80 55	79 52	85 56	88 66	93 66	93 63	90 70	85 72	92 68	90 72	85 70	86 67	85 66	88 66	87 60	85 60	87 64	87 52	75 50	75 52	85 52	89 70	90 62	88 60	84 62	82 57	82 48	80 61	80 54	73 44	84.9 60.8	
AMES 3SW	MAX MIN	81 64	82 57	83 55	85 56	89 57	93 65	94 65	92 66	91 67	86 69	90 71	89 71	86 68	86 67	90 66	90 64	91 68	80 62	77 63	75 53	76 50	81 52	84 55	88 57	89 58	89 60	73 65	83 52	77 59	78 57	73 48	84.5 60.9	
ANAMOSA 1NW	MAX MIN	79 62	81 52	81 52	82 53	86 59	90 65	92 67	92 65	91 68	90 70	85 67	86 67	83 64	85 67	87 62	89 67	89 65	83 65	74 62	77 48	80 45	81 45	86 54	88 57	88 61	88 60	84 65	82 58	82 49	78 55	75 43	84.3 59.5	
ATLANTIC 1E	MAX MIN	81 64	79 53	83 52	84 55	87 60	92 59	92 65	90 67	87 67	83 69	92 70	92 66	85 70	87 69	89 65	92 67	90 61	80 62	69 52	78 47	78 54	83 57	88 55	89 58	90 61	88 63	76 53	85 52	85 55	79 55	73 55	84.7 60.3	
ATLANTIC AP CAA	MAX MIN	80 55	77 50	82 51	83 52	88 57	92 57	91 60	89 62	86 66	82 67	91 68	90 66	85 69	85 66	89 62	92 65	88 62	78 59	67 57	73 51	77 45	82 50	86 55	87 53	89 54	88 63	75 62	82 48	82 60	76 48	71 41	83.3 57.5	
AUDUBON 2S	MAX MIN	80 55	82 59	86 62	84 57	88 60	90 64	92 67	90 68	88 67	87 67	91 65	91 68	86 68	84 67	87 64	91 66	89 67	86 65	79 60	73 52	77 49	81 45	88 56	89 55	88 56	89 55	75 63	81 53	80 61	75 54	73 48	84.5 60.1	
BANCROFT	MAX MIN	80 59	79 55	86 53	87 57	89 60	94 67	96 66	95 67	89 67	91 68	93 69	86 70	86 69	89 66	89 64	92 66	86 61	81 63	82 66	81 49	83 47	89 56	94 60	95 61	95 61	93 69	82 65	83 48	86 50	79 52	71 46	87.1 60.5	
BEDFORD 1N	MAX MIN	82 65	79 55	82 56	83 60	85 67	90 60	90 68	88 67	88 68	80 69	92 69	87 66	85 69	82 69	86 67	90 66	89 66	79 64	73 63	83 53	73 54	75 52	83 55	84 58	87 61	88 62	83 62	85 56	82 59	80 56	75 50	83.5 61.7	
BELLE PLAINE	MAX MIN	82 64	82 55	83 55	85 56	88 59	93 64	95 66	93 65	93 69	87 69	92 71	84 70	86 69	86 67	90 68	90 63	90 70	80 63	74 62	78 49	80 48	84 51	89 55	90 57	91 60	92 62	87 55	84 57	84 58	83 45	78 45	86.2 60.7	
BELLEVUE LOCK AND DAM 12	MAX MIN	80 62	79 54	79 55	82 52	86 56	90 66	95 70	93 66	91 69	91 69	86 68	80 70	83 69	86 66	86 65	86 66	88 69	82 64	76 51	74 47	79 49	82 55	85 56	89 60	88 59	87 65	87 62	88 49	82 57	78 44	77 44	84.4 60.6	
BLOOMFIELD 2N	MAX MIN			84 56	88 55	84 59																												-
BOONE	MAX MIN	81 66	81 58	86 57	90 61	92 64	96 68	96 70	95 71	92 70	87 71	92 73	90 71	90 70	87 67	91 66	91 67	92 67	78 64	77 62	76 52	80 51	85 57	90 59	92 62	94 64	90 64	79 65	83 56	79 61	77 56	71 52	86.5 63.3	
BRITT	MAX MIN	76 59	72 53	82 51	88 56	90 60	94 63	96 64	94 66	92 66	90 66	94 67	92 66	81 67	91 62	91 60	88 62	92 58	83 60	80 46	80 47	75 54	81 58	86 64	89 58	91 58	90 58	88 59	78 45	80 52	77 49	60 43	85.2 58.0	
BURLINGTON WB APT	MAX MIN	85 61	82 58	83 61	84 62	90 65	94 69	96 69	94 70	93 71	90 68	85 69	87 69	87 68	88 70	87 68	90 70	80 64	73 61	73 55	76 51	81 53	87 56	90 60	91 62	91 66	90 66	83 58	82 55	83 60	80 50	80 50	86.2 62.8	
CARROLL	MAX MIN	81 61	79 56	88 54	89 58	92 61	97 66	97 65	93 67	90 68	85 68	94 68	93 68	87 71	86 67	92 64	94 67	90 64	80 63	74 62	77 51	80 50	85 55	91 69	91 57	92 62	91 65	80 64	84 53	82 59	75 55	70 50	86.4 61.5	
CASCADE	MAX MIN	83 62	82 52	83 51	84 50	83 57	92 63	95 68	92 63	90 66	89 68	86 69	81 71	84 69	88 63	89 67	88 63	92 68	86 66	77 65	79 47	80 42	83 45	87 53	90 55	89 59	90 58	90 63	83 58	83 46	81 53	77 43	85.7 58.8	
CASTANA 4E	MAX MIN	79 65	77 56	80 56	83 57	86 62	92 66	92 68	90 69	85 70	81 67	90 69	89 67	85 66	84 68	85 65	90 68	90 64	78 63	69 62	75 52	76 49	83 59	87 60	90 60	86 64	89 65	80 64	84 55	82 60	73 51	70 51	83.2 62.0	
CEDAR RAPIDS NO 1	MAX MIN	82 64	82 54	82 55	84 55	88 59	93 65	94 68	93 67	92 69	90 69	89 71	78 70	84 68	85 66	87 68	89 64	90 71	81 65	74 64	79 49	80 48	83 50	88 56	90 61	89 61	90 61	84 64	83 57	83 53	80 59	75 48	85.2 61.2	
CENTERVILLE	MAX MIN	83 63	81 56	83 55	86 58	87 61	90 65	92 68	90 68	88 68	85 69	91 72	88 67	85 70	85 69	87 66	90 70	88 62	75 64	75 54	79 50	82 51	85 56	87 61	88 61	88 62	83 64	82 60	82 59	81 59	77 49	84.9 62.2		
CHARITON 3E	MAX MIN	82 64	80 53	82 52	84 54	87 58	91 65	92 64	90 68	89 68	82 70	93 67	89 67	85 70	85 66	86 64	91 66	90 68	80 63	75 52	74 49	78 48	80 52	85 55	86 57	87 60	81 62	82 55	83 55	82 46	78 46	84.5 59.7		
CHARLES CITY	MAX MIN	81 66	79 55	80 54	85 57	87 62	94 66	95 67	93 69	91 70	90 71	88 71	80 70	84 69	85 66	87 64	88 66	87 64	82 59	78 50	77 45	80 55	84 55	91 60	92 60	92 62	92 62	77 53	80 52	82 51	71 47	84.8 61.2		
CHEROKEE	MAX MIN	81 64	78 56	82 52	86 54	90 62	93 68	94 68	92 68	86 66	86 66	95 69	91 68	88 66	84 66	86 63	92 66	91 65	81 63	75 51	76 45	77 51	80 56	88 58	92 60	94 64	92 62	89 66	83 48	85 58	75 50	68 47	85.3 60.3	
CLARINDA	MAX MIN	85 64	82 51	85 51	85 55	90 55	94 57	91 66	91 66	85 66	93 68	92 68	88 68	86 69	86 66	90 65	95 66	90 61	81 62	78 54	76 46	80 48	84 52	88 52	92 54	90 61	93 61	79 53	84 58	86 53	84 45	76 45	86.7 58.9	
CLARION	MAX MIN	79 63	78 53	83 50	86 58	90 59	95 66	96 64	95 67	90 67	88 69	90 71	84 68	84 65	85 64	87 66	89 62	85 63	80 65	80 46	77 45	80 54	86 58	92 59	92 60	92 63	80 64	80 49	82 56	74 51	68 44	85.1 59.9		
CLINTON NO 1	MAX MIN	79 60	82 57	81 57	81 60	88 65	91 70	91 69	90 70	91 71	86 69	80 71	82 67	86 65	86 68	86 69	84 68	82 65	75 55	76 52	77 55	80 57	83 61	87 63	88 64	87 65	85 63	81 53	80 53	80 60	78 50	83.5 62.8		
COLUMBUS JUNCTION	MAX MIN	82 63	79 57	80 59	80 57	88 59																												-
CORNING 1W	MAX MIN	83 66	82 56	83 54	87 59	90 61	94 64	95 67	91 68	91 68	84 68	93 66	90 67	86 69	84 71	86 63	93 66	89 64	82 62	73 64	74 54	80 50	84 55	89 58	91 50	92 61	91 63	77 56	88 59	88 58	81 49	76 49	86.0 61.1	
COUNCIL BLUFFS 5NE	MAX MIN	82 65	80 51	82 51	86 51	89 58																												

DAILY TEMPERATURES

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Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DECORAH 2S	MAX MIN	77 59	78 49	78 46	85 44	87 57	93 60	97 59	94 58	92 63	93 66	87 64	81 65	2 62	82 60	85 63	85 56	88 62	79 58	73 61	73 42	80 40	83 45	88 56	91 51	92 61	91 55	78 64	80 49	83 39	77 49	77 38	84.1 54.9
DELAWARE 2W	MAX MIN	82 57	82 50	80 50	82 54	85 55	95 62	96 66	92 64	90 60	88 66	89 66	79 68	82 65	84 61	85 64	85 61	92 65	81 62	75 60	75 45	80 43	82 48	86 55	90 58	88 58	90 58	87 62	83 50	83 48	82 51	81 43	84.9 57.3
DENISON 1S	MAX MIN	84 66	79 55	88 56	86 53	90 61	94 67	94 67	91 69	87 69	89 69	92 68	89 66	87 70	85 68	87 63	92 68	90 64	80 63	71 82	76 50	79 47	85 57	89 60	91 61	90 62	89 65	79 64	83 53	82 60	75 56	69 50	85.2 61.9
DES MOINES WB APT	MAX MIN	82 62	81 58	84 58	84 61	87 61	93 64	94 69	94 70	90 69	82 69	93 72	89 70	84 71	85 68	88 68	91 68	90 70	78 64	72 61	75 54	78 54	81 55	87 58	89 61	90 61	90 63	78 64	83 55	82 62	77 56	74 49	84.7 62.7
DES MOINES WB CITY	MAX MIN	84 66	82 59	83 59	84 61	88 62	93 66	94 71	92 72	90 71	83 72	95 69	88 70	7 71	86 69	90 69	90 70	90 71	79 67	74 63	76 54	77 54	81 57	87 60	88 62	89 61	90 65	78 66	83 58	80 62	78 51	74 51	84.9 64.1
DUBUQUE L AND D 11	MAX MIN	80 60	85 59	77 60	82 57	83 63	88 67	94 70	91 69	88 71	87 71	85 69	78 68	80 68	82 64	83 67	84 66	87 65	80 67	74 62	73 53	75 55	82 60	84 65	85 62	89 64	88 65	85 68	80 63	81 59	79 58	76 50	84.2 63.0
DUBUQUE WB CITY	MAX MIN	80 63	80 61	80 60	81 58	86 64	92 70	95 72	94 73	91 73	90 71	87 71	80 70	82 70	86 66	88 69	86 68	88 68	82 69	75 58	76 54	78 53	82 55	85 62	89 63	88 62	88 63	85 66	80 61	81 55	79 58	76 51	84.2 64.2
ELEADER	MAX MIN	80 60	80 50	83 47	83 46	88 46	97 53	98 64	96 62	95 61	93 67	90 68	85 67	83 71	84 69	84 66	85 67	83 61	80 66	75 45	73 45	76 46	83 55	89 54	89 57	90 57	90 59	79 64	81 55	81 45	74 53	65 41	83.0 57.2
EMMETSBURG	MAX MIN	79 64	77 57	79 55	83 53	89 57	93 60	94 64	91 67	87 68	84 67	87 68	85 71	83 69	84 66	84 63	85 67	83 62	80 64	75 66	73 48	76 54	83 58	89 56	89 62	90 62	90 62	79 68	81 52	81 60	74 54	65 48	83.0 60.7
ESTHERVILLE	MAX MIN	82 62	79 55	82 52	86 54	92 63	98 68	98 65	95 68	91 70	88 66	91 67	82 70	85 70	87 64	90 64	89 65	96 63	88 63	79 65	77 63	79 45	80 55	89 58	95 57	95 53	93 62	80 65	82 47	86 57	77 52	69 47	86.5 60.5
FAIRFIELD	MAX MIN	83 62	83 57	81 53	83 58	86 59	88 65	91 68	94 68	94 69	93 70	92 70	93 68	87 69	86 69	85 69	87 66	89 67	90 62	80 64	69 53	78 51	74 50	83 55	87 58	88 60	89 62	85 64	82 61	79 58	81 48	81 48	85.5 61.8
FAYETTE	MAX MIN	80 64	80 52	82 48	82 48	89 60	95 63	98 62	100 62	97 69	92 68	90 70	80 71	83 65	86 64	86 67	86 61	88 68	80 64	76 64	77 43	80 42	84 46	88 58	91 54	91 62	90 60	79 68	80 53	84 42	78 54	77 39	85.5 58.4
FOREST CITY	MAX MIN	79 58	78 54	80 51	83 57	87 57	91 59	92 59	91 61	88 66	87 64	89 66	82 66	86 70	86 68	86 62	89 59	84 62	81 64	78 64	78 43	80 42	85 49	91 56	92 55	92 55	91 65	78 65	81 43	84 47	74 53	68 40	84.2 57.3
FORT DODGE	MAX MIN	79 61	78 56	82 52	86 56	90 60	94 68	95 65	92 67	89 68	86 69	90 68	87 68	86 68	84 62	87 65	90 62	87 65	75 62	77 63	75 46	79 47	85 56	91 59	91 62	92 61	90 66	78 66	82 50	81 60	74 54	69 51	84.5 60.7
GLENWOOD 2E	MAX MIN	82 56	80 51	84 50	85 51	89 63	92 59	92 66	90 69	89 70	85 69	93 72	85 70	88 68	85 68	88 66	89 68	90 65	80 63	76 56	78 48	83 55	87 56	90 57	88 58	90 64	90 66	79 61	84 51	85 60	78 46	85.0 60.7	
GREENFIELD	MAX MIN	80 66	77 58	80 57	83 59	86 59	90 63	90 65	88 67	85 65	89 69	91 68	87 68	81 68	84 69	86 66	89 68	87 65	87 67	76 64	75 56	73 50	81 54	85 57	86 58	87 60	88 65	75 60	81 56	83 60	80 56	74 48	83.4 61.7
GRINNELL	MAX MIN	84 71	82 54	86 56	86 58	91 60	93 63	91 64	89 65	85 66	91 67	90 68	86 68	86 65	90 67	90 65	91 67	79 60	74 60	79 49	81 50	82 52	88 55	90 57	90 59	90 60	82 62	83 53	79 57	81 54	78 45	85.6 60.2	
GRUNDY CENTER 4NE	MAX MIN	82 63	82 56	84 53	85 56	86 59	94 67	94 65	90 69	90 67	87 69	90 70	86 70	89 68	86 64	87 66	90 61	88 72	78 62	78 46	82 49	83 54	90 56	90 56	90 66	90 66	78 63	84 57	84 49	78 51	75 45	85.6 60.2	
GUTHRIE CENTER	MAX MIN	78 65	78 58	80 63	83 59	82 59	91 66	91 67	90 68	87 69	84 69	92 71	90 70	85 72	83 67	86 65	87 67	87 67	79 64	72 63	70 53	75 50	80 55	85 60	86 58	87 63	87 64	76 67	79 55	80 60	74 50	82.4 62.6	
GUTTENBERG L D 10	MAX MIN	84 62	84 57	81 58	85 54	87 62	94 67	98 69	94 68	92 72	91 72	90 69	82 69	85 69	86 65	88 66	87 66	90 62	82 67	84 53	77 50	81 50	83 52	87 60	90 64	91 63	90 60	85 68	80 59	80 49	80 58	75 49	82.0 62.0
HAMPTON	MAX MIN	80 65	78 55	79 54	84 57	87 62	92 67	92 70	91 70	89 69	86 71	85 69	80 68	82 68	83 65	85 65	85 65	85 64	80 65	75 48	78 49	78 56	82 56	89 60	89 62	90 64	89 65	80 62	80 52	80 57	75 49	69 49	83.1 61.7
HARLAN	MAX MIN	79 65	77 55	82 54	83 55	88 59	87 63	89 65	89 67	84 68	80 70	91 67	83 72	81 67	81 66	82 68	84 64	82 64	72 63	73 55	78 49	82 54	89 58	88 58	89 60	89 63	87 64	84 52	84 62	79 57	79 49	83.2 61.5	
HAWARDEN	MAX MIN	82 62	80 54	83 51	88 54	94 64	98 67	95 64	91 71	86 70	93 68	93 70	85 65	88 68	89 66	91 65	91 61	88 65	78 65	80 51	88 52	88 59	92 64	93 68	84 63	83 64	85 60	88 49	84 58	80 53	78 44	87.2 61.5	
IDA GROVE 4S	MAX MIN	81 56	82 54	84 52	88 56	91 60	96 61	91 70	94 67	90 66	88 67	93 67	88 68	85 68	85 68	89 72	92 68	92 63	79 64	73 62	76 53	85 54	87 52	91 60	91 58	90 66	91 63	90 64	88 51	84 62	79 50	74 50	86.7 61.1
INDEPENDENCE 2W	MAX MIN	82 61	80 53	82 54	85 55	88 57	95 62	97 64	95 64	89 66	91 67	88 67	84 68	85 68	89 66	88 62	90 67	83 62	80 62	77 46	82 46	85 50	91 55	92 57	91 60	92 59	86 61	81 53	83 50	79 44	74 44	86.3 58.8	
INDIANOLA	MAX MIN	84 68	83 55	83 55	90 57	91 61	96 64	96 67	94 58	94 75	84 69	95 71	90 69	87 70	86 73	88 66	90 66	93 67	85 63	73 67	75 56	80 54	84 58	90 56	91 62	92 66	83 66	86 66	85 62	82 58	77 50	68 48	84.8 62.8
INWOOD 2W	MAX MIN	81 59	80 51	80 51	89 56	90 62	94 61	94 63	91 69	88 61	85 62	89 66	89 67	85 68	86 64	86 64	88 59	90 64	78 63	77 48	76 47	78 52	81 57	85 57	88 62	89 60	85 65	82 63	81 49	80 52	77 43	84.8 59.5	
IOWA CITY	MAX MIN	82 63	80 56	83 56	85 58	87 60	91 64	93 66	92 67	91 68	90 69	82 70	85 69	86 69	88 65	88 65	89 65	81 64	76 62	76 52	78 51	81 51	85 55	88 59	88 61	89 61	90 64	85 60	82 54	80 59	77 48	84.8 61.6	
IOWA CITY AP CAA	MAX MIN	82 58	82 56	83 58	85 55	88 62	92 63	93 64	94 66	92 66	91 68	83 66	86 65	87 66	89 63	91 69	90 65	82 69	74 65	77 52	79 48	82 49	86 54	88 56	89 58	90 59	87 60	83 55	82 53	80 45	78 45	85.8 59.4	
IOWA FALLS 1N	MAX MIN	78 63	78 53	80 52	87 54	88 58	93 68	95 67	94 68	91 68	89 70	87 69	81 69	83 65	82 66	87 63	85 64	88 63	78 64	74 48	75 47	80 52	83 57	91 62	93 60	91 62	81 60	78 59	81 50	76 56	70 46	84.2 60.0	
JEFFERSON	MAX MIN	81 63	80 55	82 53	84 56	88 57	92 62	94 72	91 67	89 68	87 71	88 69	85 71	85 67	86 65	90 66	90 65	76 62	74 62	74 52	76 54	82 54	87 57	88 59	88 59	89 65	79 64	81 65	77 61	72 52	84.0 61.4		
KEOKUK L D 19	MAX MIN	82 65	86 64	80 65	81 63	86 66	88 69	90 73	92 74	91 75	90 76	90 68	86 70																				

DAILY TEMPERATURES

IOWA
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Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
LE MARS	MAX MIN	81 64	79 56	82 52	86 57	89 64	95 67	94 67	92 70	87 70	87 67	94 70	93 69	95 67	88 66	88 67	90 66	90 62	83 55	76 65	77 50	79 50	85 69	90 62	90 62	85 65	85 65	81 67	87 50	85 60	76 53	70 47	85.8 62.0
LOGAN	MAX MIN	80 64	79 55	81 52	87 54	91 59	94 62	94 65	91 66	89 68	84 68	94 69	92 66	85 67	84 68	84 65	90 67	88 64	83 64	72 62	76 53	79 47	85 55	90 58	90 58	90 60	90 61	83 63	85 52	85 60	77 53	72 48	85.3 60.4
MAPLETON 5NW	MAX MIN	82 66	79 56	83 51	86 54	89 62	94 67	93 63	90 70	84 70	85 67	91 69	89 68	85 67	84 69	84 65	91 65	91 65	78 62	71 63	74 52	77 48	83 58	88 60	89 64	88 62	88 65	80 65	84 50	83 60	75 55	70 49	84.1 61.5
MAQUOKETA 5E	MAX MIN	79 60	84 56	84 56	84 55	85 60	90 64	94 68	92 68	91 68	90 69	85 67	81 70	83 67	87 64	86 67	86 65	90 68	82 67	78 62	77 50	78 51	82 50	84 56	87 59	87 63	87 67	88 65	82 60	81 52	83 59	78 48	84.7 61.3
MARSHALLTOWN	MAX MIN	82 56	82 53	86 54	88 58	90 68	95 66	96 70	94 69	92 69	89 70	92 70	88 70	88 67	86 67	91 61	92 67	90 67	78 63	78 63	78 48	82 48	84 50	90 56	92 57	92 58	92 62	86 67	83 53	82 57	80 58	87.3 61.4	
MASON CITY 3N	MAX MIN	79 65	79 54	79 54	84 55	88 63	91 64	94 64	93 68	90 69	89 69	90 69	82 70	86 68	86 65	86 63	89 63	85 62	81 62	77 64	77 45	80 45	85 51	90 58	91 62	92 63	90 65	76 65	80 49	83 48	74 53	68 42	84.3 59.9
MASON CITY AP CAA	MAX MIN	78 60	78 55	81 54	84 56	88 59	92 65	93 70	92 67	90 68	86 68	87 68	81 68	84 68	86 63	86 64	88 63	85 62	80 62	78 65	78 44	79 44	85 52	91 56	91 64	92 62	91 64	77 61	80 48	82 51	73 50	68 43	84.0 59.5
MILFORD 4NW	MAX MIN	79 60	76 54	81 53	84 57	90 62	94 66	95 63	92 66	88 68	86 66	89 66	81 72	84 68	85 68	86 65	89 67	85 60	79 64	76 57	77 49	78 57	87 59	92 59	92 67	90 62	92 64	80 51	83 55	84 51	75 45	66 45	84.4 60.8
MILLERTON	MAX MIN	83 63	79 55	83 56	85 59	85 61	89 63	91 67	88 68	88 67	88 67	91 71	86 67	86 67	87 70	85 69	86 67	88 70	83 62	74 64	75 53	77 53	80 57	85 61	86 62	87 65	88 68	82 58	81 61	82 57	81 49	76 49	84.0 61.9
MISSOURI VALLEY	MAX MIN	82 65	80 54	84 53	87 58	90 66	95 65	94 71	92 72	89 71	85 70	95 73	97 70	88 69	87 69	86 67	93 68	92 64	77 66	70 55	79 52	80 60	86 63	90 62	92 65	91 68	90 64	83 54	88 54	88 55	79 55	86.5 63.5	
MONMOUTH 4SW	MAX MIN	79 58	81 52	81 53	83 54	85 57	86 63	93 68	93 68	90 65	89 66	85 65	80 61	85 65	78 63	78 67	86 62	86 64	83 62	80 65	79 52	82 46	85 52	88 55	86 60	87 57	86 62	79 65	81 49	84 53	80 41	84.0 58.9	
MOUNT Ayr 2N	MAX MIN	83 65	78 55	82 54	86 59	89 60	93 64	93 67	90 68	91 68	85 70	91 66	86 70	85 71	83 71	82 75	87 66	87 65	85 62	79 65	71 55	76 51	80 53	83 58	85 59	86 58	88 61	86 63	81 55	80 57	81 55	84.0 61.7	
MOUNT PLEASANT	MAX MIN	85 61	84 57	85 60	85 59	89 60	93 64	96 65	94 67	93 68	91 68	93 68	88 67	88 68	88 69	90 66	91 69	83 63	75 63	77 52	80 50	85 50	87 54	89 59	88 61	89 63	89 63	88 62	84 55	82 60	83 59	78 59	86.8 61.9
MUSCATINE NO 1	MAX MIN	85 62	84 58	85 58	87 58	87 63	92 67	95 70	93 69	92 71	89 70	85 70	86 69	86 68	89 66	89 68	88 66	90 70	82 85	77 63	78 52	79 51	83 53	87 56	89 60	89 62	89 64	88 66	84 56	82 60	83 49	78 49	86.3 62.6
NEW HAMPTON	MAX MIN	81 59	80 48	81 49	86 50	87 54	95 56	96 58	93 59	90 62	89 63	89 64	78 64	84 60	85 58	86 62	87 58	88 59	80 57	78 57	79 40	80 41	84 46	91 53	92 52	92 54	93 54	76 58	82 47	82 42	76 46	71 36	84.9 53.7
NEWTON	MAX MIN	84 66	83 58	84 57	87 62	88 63	93 67	94 68	92 70	91 70	86 70	94 72	92 70	88 71	89 70	91 64	93 67	92 70	82 62	75 63	77 52	79 54	82 52	88 60	89 61	89 63	91 64	83 67	85 56	82 60	82 59	72 52	86.4 63.2
NORTHWOOD	MAX MIN	80 64	80 54	80 50	84 55	87 58	92 63	93 67	91 64	89 65	87 67	90 70	88 66	87 64	87 63	88 63	88 61	87 61	84 63	81 45	79 46	80 52	85 56	91 61	91 63	92 64	92 64	82 48	82 45	84 52	78 42	74 42	85.6 58.6
NORWICH 2E SCS FARM	MAX MIN	82 64	79 55	83 52	84 56	89 61	91 64	92 64	90 66	89 67	85 68	93 67	92 65	90 65	90 66	94 65	90 65	86 62	76 62	77 53	78 47	78 51	82 52	86 55	89 57	89 60	90 60	81 55	82 60	83 58	81 55	75 46	85.9 59.3
OAKLAND 2E	MAX MIN	81 65	80 51	81 51	83 53	87 60	90 59	91 64	88 67	87 73	82 73	90 70	92 67	85 71	86 68	88 66	93 67	90 62	82 60	75 64	75 46	76 54	82 58	86 56	88 59	87 63	88 60	80 61	83 51	84 62	79 53	73 43	84.3 60.3
OELWEIN	MAX MIN	79 65	79 56	82 55	85 60	88 63	94 65	96 66	94 67	92 70	89 72	89 70	80 70	84 68	86 66	88 65	88 68	88 65	84 68	76 48	76 48	80 54	84 60	89 60	92 64	90 66	91 66	81 56	78 56	83 52	78 45	73 45	85.0 61.5
ONAWA	MAX MIN	81 66	80 62	85 54	87 56	92 66	96 66	96 66	94 66	89 66	87 66	95 66	92 66	86 66	89 66	88 66	92 66	89 66	80 66	69 50	78 51	81 57	86 60	90 60	91 62	90 62	93 66	81 66	86 53	86 62	76 55	71 43	86.3 -
OSAGE	MAX MIN	78 63	78 54	79 54	84 60	87 60	92 68	94 61	92 64	89 66	92 67	89 67	83 69	85 66	85 63	87 64	88 60	87 61	82 60	78 62	77 46	80 45	84 50	91 56	92 62	92 60	92 60	82 63	80 61	83 58	74 56	69 49	84.7 59.8
OSCEOLA	MAX MIN	84 57	82 57	85 56	87 61	89 61	94 64	94 68	92 68	90 68	81 67	93 68	88 67	88 70	85 69	89 66	92 67	91 69	85 64	71 52	75 54	79 54	82 57	88 61	89 61	90 62	91 62	83 64	82 56	82 59	82 50	78 50	85.9 61.9
OSKALOOSA	MAX MIN	85 64	82 56	85 57	87 56	87 60	94 63	95 67	93 67	93 68	86 69	95 71	90 72	88 70	89 76	90 66	93 66	93 68	81 61	74 64	76 53	78 50	83 51	85 56	87 59	86 62	90 65	83 60	82 58	82 59	79 48	78 48	86.1 62.1
OTTUMWA 1WSW	MAX MIN	86 70	85 57	85 57	89 57	89 62	94 65	93 66	90 66	89 68	92 73	90 70	87 71	86 69	89 69	89 67	91 67	87 61	79 63	76 55	80 52	83 52	87 54	88 57	89 60	89 62	89 60	83 56	82 56	85 48	79 48	86.9 61.7	
OTTUMWA AP CAA	MAX MIN	84 64	82 59	82 60	85 60	87 62	91 68	92 71	89 71	86 71	92 71	87 72	85 69	85 70	87 69	89 66	91 66	78 71	72 64	75 60	77 54	80 55	85 57	87 60	87 65	88 66	83 68	84 61	80 61	80 50	77 50	84.5 64.1	
PERRY 2SE	MAX MIN	84 52	78 56	85 51	86 56	89 59	94 61	94 64	92 68	90 68	86 69	91 71	88 70	85 67	85 65	87 65	91 67	88 62	80 62	73 51	73 48	77 52	82 56	87 58	88 57	89 63	88 64	75 51	82 60	80 57	76 48	70 48	84.3 60.3
POCAHONTAS 2SE	MAX MIN	84 64	78 56	81 51	85 56	89 61	94 64	94 68	94 67	87 68	85 68	90 68	84 67	85 65	86 64	86 63	88 63	86 62	74 62	76 51	72 49	73 55	85 57	91 60	92 60	92 60	90 66	80 48	84 59	81 58	74 49	69 49	84.2 -
PRIMGHAR	MAX MIN	80 62	78 52	82 55	86 56	90 62	95 66	96 65	93 68	90 66	85 65	91 64	88 69	87 65	85 64	85 65	91 65	88 58	85 62	77 63	77 52	80 50	88 56	87 65	93 60	91 62	89 65	84 51	84 57	82 50	80 43	74 43	86.0 60.2
RED OAK	MAX MIN	82 66	79 52	83 50	84 53	88 59	92 65	92 68	90 68	88 58	85 70	92 71	93 68	87 70	87 69	90 66	89 65	86 65	75 59	77 46	78 46	83 53	88 57	90 58	90 64	90 64	78 60	83 50	84 60	79 51	74 44	85.5 59.8	
ROCK RAPIDS	MAX MIN	79 61	77 55	80 53	86 55	89 62	94 64	92 63	88 72	86 68	89 67	88 70	85 69	86 68	85 65	88 62	85 62	76 64	75 64	76 53	78 50	85 60	90 61	90 60	86 67	88 64	80 50	81 64	81 55	75 45	71 45	84.0 60.9	
ROCKWELL CITY	MAX MIN	80 63	80 53	83 54	87 54	90 55	96 68	95 63	93 65</																								

DAILY TEMPERATURES

IOWA
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Table 5-Continued

Station		Day of month																														Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
SIGOURNEY	MAX	84	81	84	86	87	93	95	92	89	87	91	88	95	86	81				93	75	75	79	81	84	87	90	90	82	82	80	80	77	85.3
	MIN	64	59	59	61	63	67	69	71	71	72	72	70	69	69	69	66	67		63	60	53	55	56	57	62	67	65	58	61	60	61	52	63.3
SIOUX CITY WB APT	MAX	81	81	83	88	91	95	95	93	88	87	94	93	86	88	87	91	90	72	74	78	80	86	90	92	89	89	82	86	83	77	71	85.8	
	MIN	62	56	54	56	60	65	63	68	71	68	69	67	66	69	67	66	66	63	61	54	51	56	60	60	66	64	60	54	61	56	47	61.5	
SIOUX RAPIDS	MAX	81	80	82	88	91	98	97	95	89	87	91	88	88	85	87	92	91	78	77	79	80	88	93	93	94	92	81	85	80	74	68	86.1	
	MIN	62	62	52	53	58	68	60	68	60	66	68	70	69	66	64	65	60	62	63	44	45	54	57	56	64	60	68	46	58	50	50	59.6	
SPENCER 1N	MAX	80	77	83	86	91							85	84	83	90	85	76	76	74	78	87	92	92	89	90	79	82	82	72	85	82.4		
	MIN	58	53	49	52	64	68			70	69	66	66	70	68	67	60	64	58	63	54	50	44	52	62	60	68	63	53	44	56	49	58.6	
STATE CENTER	MAX	77	81	83	86	87	92	94	91	90	86	91	90		90	90	90	86	78	77	73	78	79	86	89	88	89	78	88	73	79	74	84.4	
	MIN	64	58	52	57	59	67	67	66	68	69	71	70		70	65	64	69	68	63	56	52	57	57	60	61	60	67	55	58	59	49	62.0	
STORM LAKE 2E	MAX	79	78	81	84	88	92	92	90	86	84	89	86	84	84	86	91	88	77	74	73	76	83	88	88	87	87	79	83	77	73	67	83.0	
	MIN	64	58	53	57	63	70	67	67	69	69	69	67	72	66	64	66	61	64	63	51	51	54	59	57	66	62	69	63	59	59	51	54	61.8
TINGLEY	MAX	82	83	84	84	88	91	91	89	89	85	90	88	86	85	87	89	89	81	74	74	77	80	85	87	87	87	79	82	82	81	77	84.3	
	MIN	62	50	50	57	59	60	63	63	64	65	63	63	67	67	63	62	63	57	60	50	48	50	53	55	53	57	60	50	57	53	46	57.7	
TIPTON	MAX	81	79	84	84	88	92	95	95	92	89	88	83	85	86	88	90	88	84	75	76	77	72	84	88	87	88	86	81	82	78	76	84.5	
	MIN	62	56	67	57	58	64	68	68	68	70	68	68	67	58	66	64	68	64	62	51	48	52	57	58	63	65	65	58	64	58	58	61.9	
TOLEDO	MAX	80	80	82	85	87	92	95	93	91	88	92	86	86	85	89	90	91	81	78	78	81	85	92	92	93	92	86	84	82	83	77	86.4	
	MIN	65	56	55	56	59	66	67	69	69	69	71	70	70	66	67	61	69	63	63	48	49	52	57	60	61	62	66	54	58	59	48	61.5	
TRIPOLI	MAX	82	82	83	88	89	95	97	94	93	89	89	80	85	87	89	89	89	82	78	78	82	85	91	93	92	92	85	84	85	82	77	86.6	
	MIN	65	55	55	54	61	65	67	68	69	70	71	71	66	65	69	64	64	64	48	46	53	58	58	61	63	68	53	51	53	44	60.7		
YINTON	MAX	83	81	81	87	89	93	95	94	92	81	88	80	82	85	88	90	91	83	75	79	81	85	91	92	92	91	87	84	81	81	74	85.7	
	MIN	63	56	53	52	56	64	61	66	68	70	70	70	69	67	69	62	70	64	62	44	43	48	51	55	59	59	66	58	52	46	44	59.3	
WASHINGTON	MAX	85	81	83	87	88	91	94	93	92	91	94	85	87	87	89	90	91	82	77	77	79	82	86	92	89	89	88	83	83	80	86.4		
	MIN	63	58	59	59	60	65	66	66	69	69	71	69	69	67	69	66	70	63	62	52	52	51	55	70	59	62	64	60	57	58	49	62.2	
WATERLOO	MAX	81	80	79	85	87	93	94	93	91	88	80	78	83	84	87	86	89	80	76	76	81	84	90	92	91	91	80	82	83	78	75	84.4	
	MIN	65	56	54	55	61	66	66	68	70	71	70	71	67	68	67	62	68	64	65	47	47	53	58	59	62	62	67	53	53	55	46	61.1	
WAUKEE	MAX	84	83	83	84	88	94	95	92	92	85	96	90	88	88	92	92	91	85	74	85	78	81	90	90	92	92	85	83	82	78	74	86.6	
	MIN	67	60	60	60	62	66	71	72	71	72	73	69	70	68	68	70	71	67	63	54	55	57	60	62	62	65	68	58	62	62	52	64.4	
WAUKON	MAX	78	77	75	81	85	92	96	93	92	91	85	77	82	82	84	86	87	80	74	74	80	83	85	90	90	80	78	84	75	75	83.3		
	MIN	48	51	51	49	55	57	60	60	61	64	64	72	74	69	67	64	64	62	60	49	51	51	58	60	61	60	65	57	51	60	46	56.7	
WEBSTER CITY	MAX	82	81	86	88	94	99	100	96	93	90	90	90	88	88	90	92	89	79	80	78	82	88	95	90	94	95	84	83	85	77	70	87.6	
	MIN	62	53	50	59	56	65	60	64	66	69	70	71	69	66	65	65	64	63	49	45	52	57	56	57	60	66	49	57	53	44	59.5		
WILLIAMSBURG	MAX	80	78	78	82	85	89	91	90	88	87	88	81	82	82	85	85	87	79	74	72	75	79	85	86	86	87	82	80	77	76	76	83.3	
	MIN	63	57	58	59	59	65	67	67	69	68	71	70	69	66	68	65	69	63	61	51	53	53	57	60	61	61	64	58	57	58	50	61.8	
WINTERSSET	MAX	82	80	80	86	86	90	91	90	89	84	93	91	86	85	86	89	89	87	76	73	77	80	85	86	87	87	86	80	80	80	73	84.3	
	MIN	65	56	55	61	63	64	68	69	69	69	70	69	71	68	66	67	68	63	63	53	52	55	59	61	62	64	65	54	60	58	51	62.3	
WOODWARD 7E	MAX	81	80	82	85	89	93	93	92	90	86	90	87	85	86	88	90	90	80	74	74	76	80	87	88	88	90	83	80	75	76	80	84.5	
	MIN	64	65	56	58	62	65	65	69	68	69	69	70	69	66	66	66	67	63	62	53	50	55	59	60	60	64	65	55	60	57	48	62.1	

Table 6 for this issue may be found on Page 143.

SOIL TEMPERATURES AT AMES, IOWA August, 1949

Temperature	4 feet above ground	1 inch						
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches	72 inches
Average 7 a.m.	66.2	69.7	70.6	75.5	76.3	71.9		
Average 12 noon	80.5	85.4	82.9	76.6	75.6	72.4		
Average 7 p.m.	74.5	83.1	83.0	82.0	76.5	72.1	67.2	63.5
Highest	94	94	91	88	81	74	68	64
Date	7	16+	7+	16+	17	9+	12+	14+
Lowest	48	59	60	67	70	70	66	62
Date	31	20+	20+	21	21	21+	1+	1+
Number of days with temperature								
0° or lower	0	0	0	0	0	0	0	0
24° or lower	0	0	0	0	0	0	0	0
32° or lower	0	0	0	0	0	0	0	0
40° or higher	31	31	31	31	31	31	31	31
50° or higher	31	31	31	31	31	31	31	31
60° or higher	31	28	31	31	31	31	31	31
90° or higher	8	6	5	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°. Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

STATION INDEX

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AUGUST 1949

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	
							Temp.	Precip.										Temp.	Precip.			
Afton	0064	Union	8	41 02	94 12	1200	6P	6P	Fred E. Lamb	2 3 5	Maquoketa 5 mi. E	5131	Jackson	12	42 02	90 35		5P	5P	Otto J. Bisinger	2 3 5	
Akron	0088	Plymouth	1	42 49	96 33	1153	6P	6P	Orlan C. Moore	3	Marion 4 mi. NE	5163	Linn	4	42 03	91 33		5P	5P	Hybrid Seed Corn Co.	3 4	
Albia	0112	Monroe	8	41 02	92 48	949	8P	7A	Arthur L. Freed	2 3 5	Marshalltown No. 1	5193	Marshall	10	42 03	92 54	886	8P	7A	Closed	6-1-49	
Algonia	0133	Kossuth	8	43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5	Marshalltown	5198	Marshall	10	42 04	92 56		4P	8A	Raymond H. Hoops	2 3 4 5	
Allerton	0149	Wayne	9	40 42	93 23				Herman E. Reddy	3 4	Marshalltown	5230	Cerro Gordo	4	43 11	93 12	1148	8P	8P	Am. Cry. Sugar Co.	2 3 5	
Allison	0157	Butler	4	42 46	92 47	1080	7P	7P	D. Teillinghuisen	2 3 5	Mason City AP CAA	5235	Cerro Gordo	4	43 09	93 20	1194	MID	MID	Airways Com. Sta.	2 3 4 5	
Alta	0173	Buena Vista	20	42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Merrill 5 mi. W	5418	Plymouth	7	42 43	96 20		8A	8A	Art. Husted	3	
Alton	0181	Sioux	7	42 59	96 01	1305	7P	7A	W. S. Siagle	2 3 5	Wilford 4 mi. NW	5493	Dickinson	18	43 23	95 11	1402	7P	7P	A. C. McKinstry	2 3 5	
Ames 3 mi. SW	0205	Story	23	42 00	93 39	1004	7P	7P	Charles N. Brown	2 3 4 5 6	Willerton	5517	Wayne	5	40 50	93 18	1070	6P	6P	J. C. Davis	2 3 5	
Ames 1 mi. NW	0213	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Missouri Valley	5384	Harrison	3	41 33	95 54	1068	7P	7P	S. William Sorensen	2 3 4 5	
Atlantic 1 mi. E	0264	Cass	16	41 24	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	Monmouth 4 mi. SW	5622	Jones	12	42 03	90 55	870	7P	7P	Arnold Bisinger	2 3 5	
Atlantic AP CAA	0389	Cass	16	41 24	95 02	1132	MID	MID	Airways Com. Sta.	2 3 4 5	Monona	5630	Clayton	14	43 03	91 22		922	6P	6P	Mrs. Anna E. Welter	3 4
Audubon 2 mi. S	0385	Audubon	16	41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Monroe	5638	Jasper	6	41 31	93 06				J. A. Dibel	2 3 5	
Augusta	0389	Des Moines	21	40 46	91 17	522	5A	5A	Glen Wood	3	Morse	5732	Johnson	10	41 44	91 26				Margaret R. Miller	3 4	
Bancroft	0463	Kossuth	8	43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Morse 1 mi. NE	5737	Johnson	10	41 45	91 25				Lawrence J. Wall	3 4	
Barilett 3 mi. E	0493	Fremont	26	40 33	95 44				R. L. Kilpatrick	3	Morse 4 mi. SSW	5742	Johnson	10	41 41	91 25				L. J. Fuhrmeister	3 4	
Beaver 1 N	0549	Boone	6	42 03	94 08				Wilfred E. Hunter	3 4	Mount Ayr 2 mi. N	5769	Riaggold	9	40 44	94 14	1214	6P	6P	H. L. Cornelison	2 3 4 5	
Bedford 1 mi. W	0576	Taylor	28	40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Mount Pleasant	5796	Henry	21	40 57	91 32	730	6P	6P	A. M. Patterson	2 3 4 5	
Belle Plaine	0600	Benton	10	41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Noville	5823	Woodbury	11	42 29	96 04				Einar W. Widmark	3 4	
Bellvue Lock & Dam 12	0608	Jackson	14	42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Muscataine No. 1	5837	Muscataine	14	41 26	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5	
Blackton 2 mi. S	0745	Taylor	19	40 36	94 29	1081	5P	5P	Glen A. Cobb	3	Muscataine No. 2	5842	Muscataine	14	41 25	91 03	546	7A	7A	Clifford McKee	3	
Blomfield 2 mi. W	0753	Davis	8	40 47	92 26	825	7P	7P	Mrs. Lee Foster	2 3 5	Muscataine No. 1	5852	Muscataine	14	41 29	91 07				Closed	2-23-49	
Boone	0807	Boone	6	42 04	93 53	1136	8P	8P	E. G. Kolb	2 3 5	New Hampton	5952	Chickasaw	27	43 04	92 19	1156	7P	7P	Loddy Hudlicks	2 3 5	
Brill	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Aust	2 3 5	Newton	5992	Jasper	21	41 42	93 04	980	7P	7P	Al A. Schell	2 3 5	
Burlington WB Airport	1063	Des Moines	14	40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5	North English	6076	Iowa	4	41 29	92 05	789			Ernest E. Andrews	3 4	
Carroll	1233	Carroll	20	42 04	94 52	1280	7P	7A	Ben H. Schenkelsberg	2 3 5	Northwood	6103	Worth	4	43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 4 5 6	
Cascade	1257	Dubuque	12	43 18	91 00	880	7P	7P	C. J. Meiers	2 3 4 5	Norwich SCS Exp Farm 2E	6119	Page	22	40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5 6	
Cedar 4 mi. E	1277	Monona	11	42 04	95 49				Bob Zimmerman	2 3 5	Oakland 2 mi. W	6151	Pottawattamie	16	41 19	95 23	1150	6P	6P	Ward O. Heinke	2 3 5	
Cedar Falls	1300	Black Hawk	4	42 32	92 27	875	7P	7P	E. J. Cable	3	Oasias	6188	Johnson	10	41 43	91 24				Ed. Kadara	3 4	
Cedar Rapids No. 1	1319	Linn	4	41 59	91 39	813	7P	7A	John T. Wurster	2 3 5	Oelweis	6200	Fayette	27	42 40	91 53	1038	8P	8P	Wilo W. Franz	2 3 5	
Cedar Rapids No. 2	1324	Linn	4	41 58	91 40				C. M. Simon	3	Osage	6243	Monona	15	42 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5	
Centerville	1354	Appanoose	5	40 43	92 63	1013	7P	7P	Karl McIntire	2 3 4 5	Oscola	6305	Mitchell	4	43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5	
Chariton 3 mi. E	1394	Lucas	5	41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Oskaloosa	6316	Clarke	6	41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5	
Charles City	1402	Floyd	4	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5 6	Oskaloosa	6327	Mahaska	6	41 17	92 40	813	8P	8A	Cliff. Bergstromer	2 3 5	
Cherokee	1442	Cherokee	11	42 45	95 33	1358	7P	7A	J. Earl Wirth	2 3 4 5 6	Ottumwa 1 mi. WSW	6386	Wapello	6	41 01	92 26	649	7P	7P	C. L. Wikesh	2 3 4 5	
Clarinda	1533	Page	17	40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Ottumwa AP CAA	6389	Wapello	6	41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5	
Clarion	1541	Wright	2	42 44	93 44	1170	7P	7P	George Reeder	3 5	Ottumwa	6391	Wapello	6	41 00	92 24	620	7A	7A	Winifrey Kinross	3	
Clinton No. 1	1625	Clinton	14	41 50	90 11	889	7P	7P	Samuel W. Williams	2 3 5	Perry 2 mi. SE	6566	Dallas	20	41 51	94 06	975	7P	7P	Eugene H. Bastie	2 3 5	
Clinton No. 2	1640	Clinton	14	41 50	90 11				David M. Swift	3	Pochantas	6719	Pocahontas	6	42 44	94 40	1228	5P	5P	Thomas A. Mc Mahon	2 3 5	
Columbus Junction	1731	Louisa	10	41 17	91 23	595	6P	6P	Alice Best	2 3 5	Pringhar	6800	O'Brien	11	43 05	95 38	1517	6P	6P	R. A. Ballard	2 3 5	
Cove Rapids	1793	Carroll	20	41 51	94 39				Charles W. Smith	3 4	Red Oak	6940	Montgomery	16	41 01	95 13	1077	9P	MID	Clarence M. Totty	2 3 5	
Corning 1 mi. W	1833	Adams	17	41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16	41 01	95 14				Mrs. E. M. Conard	3 4	
Council Bluffs 8 mi. NE	1858	Pottawattamie	15	41 20	93 49				Mrs. H. O. Crane	3 4	Remsen	6975	Plymouth	7	42 49	95 58				Municipal P & L Pl.	3	
Council Bluffs 5 mi. NE	1899	Pottawattamie	15	41 19	93 49				Perry C. Crandall	2 3 5	Ringsted	7058	Emmet	6	43 18	94 30				H. C. Christensen	3 4	
Cresco	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Riverton	7085	Fremont	16	40 41	95 35	920	7P	7P	William Stubbs	3	
Creston	1962	Union	19	41 03	94 23	1300	7P	7A	Nellie Spangler	2 3 5	Rock Rapids	7147	Lyon	1	43 26	96 10	1541	7P	7P	George Haveling	2 3 5	
Cumberland 5 mi. NE	2007	Cass	17	41 18	94 53	1225	6P	6P	Carl E. Pollock	3 5	Rockwell City	7161	Calhoun	20	42 24	94 37	1223	7P	7P	Y. C. Baileyspacher	2 3 4 5	
Cushing 3 mi. NE	2026	Ida	11	42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sac City	7312	Sac	20	42 26	94 59	1274	8P	8P	W. Floyd Wentry	2 3 5	
Dakota City	2037	Humboldt	6	42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Saint Ansgar 2 mi. WNW	7326	Mitchell	4	43 24	92 58				Donald R. Cowell	3 4	
Davenport WB City	2069	Scott	14	41 30	90 38	979	MID	MID	U.S. Weather Bureau	2 3 5	Saint Charles	7340	Madison	6	41 16	93 47				Ross E. Wise	3 4	
Decorah Dry Run	2110	Winnebago	24	43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Sanborn	7386	O'Brien	7	43 11	95 39	1552	7P	7P	Wina Suele O'Dow	2 3 5	
Decorah 2 mi. W	2112	Winnebago	24	43 13	91 47	880	7P	7A	Charles Carlsen	2 3 5	Sheffield	7372	Franklin	4	42 54	93 13				Richard J. Galvin	3 4	
Delaware 2 mi. W	2136	Delaware	12	43 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Sheldon	7394	O'Brien	7	43 10	95 51	1418	7P	7P	Rosa E. Forward	2 3 5	
Denison 1 mi. S	2171	Crawford	4	42 00	95 23				E. M. Hugg	2 3 5	Shell Rock	7602	Butler	4	42 43	92 35				Elmer J. Apfel	3 4	
Derby	2198	Lucas	5	40 56	93 27				Lloyd A. Kirk	3 4	Shenandoah	7613	Page	16	40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5	
Des Moines WB Airport	2203	Polk	6	41 32	93 59	954	MID	MID	U.S. Weather Bureau	2 3 4 5	Sibley	7664	Oscola	1	43 24	95 45	1494	6P	6P	E. D. Stewart	2 3 5	
Des Moines WB City	2208	Polk	6	41 35	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5	Sigourney	7678	Keokuk	21	41 20	92 12</						

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

SEPTEMBER 1949

Volume LX No. 9



C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The weather during September changed abruptly from the mild and warm temperatures that had prevailed all summer to rather cool temperature readings. The month was marked by successive outbreaks of cool and dry Canadian air every three to five days which held the monthly average to 59.2° or the coolest September since 1924. In regard to rainfall, the month's precipitation continued deficient; the same pattern that has persisted since July. For the State, precipitation averaged 3.21 inches compared to a normal of 4.01 inches.

Practically all the month's rainfall occurred in the first twelve days in three periods of showers. The first period 2-4th, the heavier rains were confined to the western counties with only scattered showers elsewhere. Rather intense thunderstorms were reported in Plymouth and Woodbury counties in western Iowa with amounts ranging from 2 to 4 inches. The intense rate of fall over the Perry Creek watershed caused some minor flooding in the Sioux City area. The second period, 5th-7th, was characterized by light showers of 1/4 to 3/4 inch in amount. Again the most generous amounts occurred in the western half of the State. The heaviest and most general rains occurred during the third period, 10th-12th. Widespread thunderstorms developed in the warm, moist air that overlay the State. Over five inches fell in portions of Plymouth county again causing an overflow of Perry Creek. Perry Creek rose to an even higher stage than the week previous and more serious flooding resulted. The Floyd River also overflowed its bank and approximately 1500 acres of land were inundated from the vicinity of Merrill to near James, Iowa. As the rains moved eastward, amounts decreased considerably so that the eastern half received under one inch and the extreme east along the Mississippi River, received less than 1/2 inch. The second concentration of heavy thundershowers in this period was along the Iowa-Missouri border in Ringgold and Decatur counties. There, Lamoni received 6.38 inches within 24 hours and Mount Ayr, 4.68 inches. These rains were too late to improve the corn outlook but were beneficial to soil conditions, fall plowing and pastures.

The weather after the 12th was generally clear and sunny but continued rather cool. There were also a number of days with fresh to strong winds which materially aided in reducing the moisture content of both the corn and soybeans. Actually, during the entire month, daily temperatures seldom rose to above normal readings. The warmest day was on the 20th when warm air currents from the south pushed the mercury near and into the 90's for the day, in the western half of the State.

One of the most significant weather features of the month was the general killing frost or freeze on the 29th. Although scattered or local frosts had been reported earlier, the low temperatures on the 29th stopped all vegetative growth and effectively ended the growing season throughout the entire State. The only localities that escaped were some points in the extreme east along the Mississippi River and sheltered spots in other localities. The temperatures were the lowest in north-east Iowa where a low of 16° was reported at Saratoga on the Howard County Experimental Farm. On comparison, this freeze was about one week to ten days earlier in central and southern Iowa while it was near the usual occurrence in the northern counties.

This State-wide killing frost plus the two weeks of good dry weather during the last half of September, set the stage for what will probably be the earliest corn harvest of record. Considerable lodging and ear drop was also responsible for an early harvest. The Department of Agriculture estimated that by the end of the month 1/4 of the soybeans had been harvested and 4% of the corn was picked. The lack of moisture had delayed the usual fall plowing and rain was also needed for the winter wheat seedings.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

PRESSURE, WIND, HUMIDITY, SUNSHINE, DEGREE DAYS

IOWA
SEPTEMBER 1949

Station	Sea level pressure extremes—inches				Wind speed—m. p. h.				Relative humidity averages—percent				Sunshine	
	Highest	Date	Lowest	Date	Average	Maximum	Direction of maximum	Date of maximum	1:30 a. E. S. T.	7:30 a. E. S. T.	1:30 p. E. S. T.	7:30 p. E. S. T.	Percent of possible	Degree days 65° base
Burlington WB Airport	30.33	30	29.79	4	10.9	36	NW	19	80	88	54	60	68	182
Charles City WB City	30.26	30	29.69	4	6.3	20	NW	18					66	222
Davenport WB City	30.33	30	29.75	4										152
Des Moines WB City	30.29 a	23	29.62 a	4	8.9	29	S	20	77 a	86 a	52 a	59 a	80	136
Dubuque WB City	30.28	30	29.71	4	5.0	16	NW	13					66	190
Sioux City WB Airport	30.32	28	29.59	16	8.8	32	NW	18	80	88	52	57	75	180

a -- airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	59.1	89	33	2.18			1903	60.8	94	28	3.81	0	10	1933	69.4	105	29	4.16	0	8
1874	62.8	90	40	6.04			1904	64.0	94	30	2.78	0	7	1934	61.0	94	25	5.07	0	12
1875	60.6	92	37	5.02			1905	65.8	96	36	3.81	0	8	1935	65.0	96	25	3.46	0	8
1876	60.4	86	38	6.42			1906	67.2	100	27	4.16	0	8	1936	68.0	102	31	7.22	0	11
1877	65.4	96	40	1.95			1907	62.8	98	25	2.75	0	8	1937	65.9	103	28	1.50	0	4
1878	82.9	92	38	3.13			1908	67.9	98	20	1.20	T	3	1938	66.8	101	29	5.67	T	8
1879	59.3	90	24	2.70			1909	62.4	94	30	3.58	0	9	1939	69.3	107	16	0.82	T	3
1880	61.1	90	30	4.18			1910	63.2	99	30	3.59	0	9	1940	65.8	98	27	0.94	0	3
1881	64.5	103	37	7.14			1911	65.8	103	32	5.12	T	10	1941	66.6	95	26	7.74	0	12
1882	63.4	97	31	0.87			1912	62.1	104	24	3.98	T	11	1942	61.4	96	18	4.13	0.7	12
1883	58.5	93	30	2.04			1913	64.5	107	19	3.31	0	9	1943	60.3	94	27	2.18	0	7
1884	66.5	95	30	5.20			1914	64.5	99	30	7.88	0	10	1944	64.3	94	31	2.25	0	8
1885	61.7	92	32	3.04			1915	63.7	91	30	6.03	0	11	1945	62.9	100	21	4.37	T	11
1886	63.0	97	30	4.68			1916	62.5	98	21	3.89	T	7	1946	63.2	95	26	4.94	0	9
1887	62.1	98	30	6.17			1917	62.6	97	28	2.90	0	7	1947	67.6	104	21	2.10	T	5
1888	59.9	96	26	1.07			1918	58.6	93	20	1.87	T	6	1948	68.0	102	19	2.02	0	4
1889	60.7	96	23	2.80			1919	67.5	99	33	5.34	0	8	1949	59.2	91	16	3.21	T	7
1890	59.5	96	23	2.71			1920	66.5	98	24	3.30	0	8							
1891	67.3	104	28	1.33		4	1921	67.3	99	31	6.72	0	11							
1892	64.7	99	29	1.53	0	4	1922	67.1	103	31	2.03	0	6							
1893	64.7	102	18	2.34	0	4	1923	64.2	92	28	5.79	0	11	PERIOD	63.9	107	15	3.75	T	
1894	65.1	100	26	3.57	0	8	1924	59.1	91	25	3.13	0	8							
1895	66.8	103	22	3.03	T	5	1925	69.0	105	32	5.04	0	9							
1896	58.5	95	22	4.09	0	10	1926	63.0	92	18	9.76	T	14							
1897	70.9	106	26	2.04	0	4	1927	67.4	101	29	4.56	T	10							
1898	65.3	99	29	2.69	0	7	1928	60.5	93	24	3.08	0	6							
1899	62.5	104	15	0.93	0	4	1929	62.4	98	25	3.74	T	9							
1900	64.4	99	26	4.98	T	9	1930	66.3	101	25	2.31	0	5							
1901	63.3	102	26	4.77	0	9	1931	71.0	105	35	6.69	0	12							
1902	59.1	88	23	4.35	0	9	1932	62.2	94	27	2.05	T	5							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
SEPTEMBER 1949

Table 2

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail					
							Max 90° or above	Min. 32° or below					Total	Max depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	59.1	-4.3	86	20	33	28+			4.35	.45	1.79	11				9	3	12
Alton	59.9	-3.4	86	20	26	29		1	5.94	2.39	3.46	11				7	5	13
Cherokee	59.1	-4.6	87	20	26	29		1	5.39	1.59	2.09	11				8	4	14
Emmetsburg	58.6		86	20	28	29		1	4.17		2.10	10				8	3	11
Estherville	59.2	-2.3	87	20	28	29		1	3.49	-.22	1.69	11				8	3	11
Hawarden	59.3	-4.2	88	3+	23	23		3	5.58	2.28	1.63	10				7	6	3
Inwood 2 W	58.6	-4.6	86	20	28	28		4	3.73	.83	2.14	11	T			7	4	1
Lake Park	56.9 M	-5.0																
Le Mars	59.4	-4.1	87	20	30	29		1	8.43	4.89	3.71	11				7	5	3
Milford 4 NW	58.1 M	-4.4	86	20	32	28+		2	3.30	-.30						8		
Pocahontas 2 SE	60.2	-3.4	87	20	26	29		1	3.09	-.69	1.25	10				7	4	1
Pringhar	58.7	-5.0	86	20	31	28		2	4.32	.72	2.08	11				6	5	1
Rock Rapids	57.8	-4.7	84	20	26	29		3	4.25	1.40	1.85	10				6	3	2
Sanborn	56.9	-5.6	85	3	30	13		2	4.81	1.26	1.57	11				7	5	3
Sheldon	57.5	-5.3	85	3+	29	29		3	4.03	.75	1.19	11				8	5	1
Sibley	57.4	-4.2	81	3	24	29		4	4.25	.90	1.80	4				7	4	2
Sioux Rapids	58.4	-5.4	90	20	25	29	1	4	4.22	.52	1.50	12				8	4	1
Spencer 1 N	56.7	-7.0	87	20	23	29		4	4.89	1.25	2.31	10	T			9	5	2
Storm Lake 2 E	59.4	-4.1	85	20	29	29		1	3.63	-.14	1.46	11				9	3	2
DIVISION	58.5	-4.5							4.55	1.02			T					
NORTH CENTRAL DIVISION																		
Algona	59.5	-3.6	85	20	30	29		1	3.16	-1.12	1.36	11				9	2	1
Allison	59.3	-3.3	83	2	28	29		1	3.31	-.79	1.80	3				5	3	1
Bancroft	59.8	-2.0	87	20	27	29		1	3.64	-.11	1.37	11				8	3	2
Britt	55.9	-6.6	84	21	25	29		3	3.39	-.73	1.42	11	T			7	4	1
Charles City	58.0	-3.9	82	2	28	29		1	1.63	-2.37	.89	11				8	1	
Clarion	58.3	-5.2	85	20	23	29		3	2.93	-1.22	1.30	11	T			7	3	1
Dakota City	59.9	-3.6	86	20	27	29		1	2.44	-1.37	1.61	11				6	2	1
Forest City	57.1	-4.8	85	2+	20	29		5	2.75	-1.26	1.41	11				7	2	1
Hampton	58.5	-5.3	82	20	28	29		1	4.28	.18	1.90	3				9	3	2
Mason City 3 N	58.0	-3.9	83	2+	25	29		1	2.83	-1.01	1.01	4				8	3	1
Mason City AP CAA	57.1	-4.8	83	2	24	29		1	3.76	-.08	.96	4				8	4	
Northwood	58.1	-3.2	82	2	26	29		1	3.29	-.96	1.21	5				7	3	2
Osage	57.2	-4.7	82	2	22	29		4	2.49	-1.22	1.00	11				8	3	1
DIVISION	58.2	-4.3							3.07	-.95			T					
NORTHEAST DIVISION																		
Cascade	57.4		80	2+	21	29		3	1.14		.38	12				6	2	
Cresco	58.1	-2.0	82	2	25	29		2	1.60	-2.04	.70	11				6	2	
Decorah 2 S	55.4	-5.6	83	2	18	29		6	1.36	-2.77	.37	7+				8	2	
Delaware 2 W	56.1	-6.5	82	18	25	29		5	2.20	-2.19	1.10	3				7	3	1
Dubuque Lock & Dam 11	58.0	-6.1	86	18	32	29		1	1.08	-2.84	.25	4				10	1	
Dubuque WB City	59.2	-4.9	80	18	33	29			1.09	-2.83	.33	3				8	2	
Elkader	58.2	-4.3	86	2	21	29		3	1.83	-2.01	.71	3				6	4	
Fayette	56.6	-5.4	83	2	20	29		6	1.75	-2.53	.58	3				8	3	
Independence 2 W	58.2	-5.2	82	2	26	29		1	3.31	-.92	1.67	3				7	3	1
New Hampton	54.4	-7.7	83	2	19	29		8	1.79	-2.41	.92	11				6	2	
Oelwein	58.1	-4.9	82	2	27	29		1	2.44	-1.81	1.08	3				7	2	1
Saratoga 2 E	55.1		81	2	16	29		6	1.82		.84	11				6	4	
Tripoli	59.0		84	2	25	29		2	2.14		.73	11				8	4	
Waterloo	58.1	-5.7	81	2	26	29		2	4.09	-.26	1.90	3				8	4	1
Waukon	57.3	-4.0	84	2	28	29		1	1.21	-2.79	.44	12				3	3	
DIVISION	57.3	-5.2							1.92	-2.19			0					
WEST CENTRAL DIVISION																		
Audubon 2 S	58.4	-5.8	85	20	32	28+		2	3.81	-.32	1.53	12				5	5	1
Carrroll	59.9	-3.9	86	20	28	29		1	6.97	2.94	2.44	4				7	4	4
Castana 4 E	60.8		87	20	33	13			2.00		1.06	10				5	3	1
Cushing 3 NE	59.0	-4.8	86	20	31	28		1	4.54	.84	1.29	11				8	4	2
Denison 1 S	59.5	-4.9	86	20	27	29		1	5.84	2.32	3.03	3	T			6	5	2
Guthrie Center	59.7	-4.1	84	20	30	29		1	2.23	-1.70	.82	11				6	4	
Harlan	59.9	-4.7	86	3+	29	29		1	3.74	-.08	1.27	10				5	4	1
Ida Grove 4 S	61.1	-2.9	87	20	32	30		1	3.68	-.04	1.85	11				4	4	1
Jefferson	59.2	-5.2	84	20	29	29		1	3.54	-.66	1.23	12				7	3	1
Lake City	59.1	-4.9	86	20	29	29		2	5.22	1.22	2.84	3				6	4	1
Logan	60.2	-5.4	90	3	28	29	1	1	5.52	2.27	2.88	12	T			6	4	2
Mapleton 5 NW	59.2	-5.3	88	20	27	29		1	2.59	-1.06	1.75	10				5	2	1
Missouri Valley	62.1	-3.5	91	3	29	29	1	1	3.67	.47	1.56	10				6	4	1
Onawa	60.8	-4.7	91	20	26	29	1	2	2.86	-.75	1.86	10				5	2	1
Rockwell City	59.4	-4.6	86	20	28	29		3	3.74	-.31	1.63	3+	T			6	4	2
Sac City	61.0	-2.8	88	20	32	29		1	5.31	1.56	2.39	3	T			7	4	2
Sioux City WB Airport	59.8	-3.8	89	20	29	29		1	5.99	2.55	2.61	3	T			8	3	2
DIVISION	59.9	-4.6							4.19	.47			T					
CENTRAL DIVISION																		
Ames 3 SW	58.9	-5.5	85	20	29	29		1	4.36	.08	2.06	12	T			6	3	3
Boone	60.5	-4.5	85	20	31	29		1	6.39	1.90	2.81	3				7	3	3
Des Moines WB Airport	60.0	-4.9	86	20	32	29		1	2.21	-1.70	.69	11				6	5	
Des Moines WB City	60.8	-5.0	86	20	33	29		1	1.97	-1.94	.86	11				7	4	
Fort Dodge	59.5	-4.0	86	20	26	29		1	2.58	-1.80	1.58	11	T			7	2	1
Grinnell	58.3	-6.9	83	12	30	29		2	4.57	.19	2.56	4				7	4	1
Grundy Center 4 NE	59.1	-3.8	82	2	27	29		1	2.78	-1.65	.78	11				9	4	
Iowa Falls 1 N	58.0	-4.4	83	2+	25	29		3	4.13	-.10	1.69	3				5	4	2
Marshalltown	58.8		82	2+	27	29		3	2.43		.84	12				6	3	

CLIMATOLOGICAL DATA

IOWA
SEPTEMBER 1949

Table 2--Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Newton	60.1	-5.3	84	20	32	29		1	3.11	-1.44	1.32	4				4	4	2
Perry 2 SE	59.7	-5.0	86	5	25	29		2	2.41	-1.42	1.00	11				5	3	1
State Center	59.2	-5.1	82	20	29	29		1	2.56	-1.94	.88	12				9	5	3
Toledo	59.7	-4.8	85	2	28	29		1	5.54	.89	1.66	4				3	3	
Waukegan	62.0	-3.4	86	20	32	29		1	1.80	-2.42	.85	11				3	3	
Webster City	59.5	-4.4	86	20	24	29		3	3.60	-.50	1.33	12				8	4	2
Woodward 7 N	59.6	-4.9	85	20	30	29		1	2.94	-1.16	1.00	3	T			6	4	1
DIVISION	59.6	-4.9							3.34	-.99			T					
EAST CENTRAL DIVISION																		
Anamosa 1 NW	57.4	-5.7	79	2+	24	29		3	1.78	-2.42	.74	12				6	3	2
Belle Plaine	59.0	-5.4	83	2	28	29		2	3.47	-.92	1.20	3	T			8	3	2
Bellevue Lock & Dam 12	57.6	-6.4	80	4+	26	29		3	.93	-3.27	.37	12				8	1	
Cedar Rapids No. 1	58.9	-6.0	80	2+	28	29		1	3.04	-1.08	1.16	12				7	4	1
Clinton No. 1	60.3	-4.8	84	18	32	29		1	2.47	-1.77	1.96	12				6	1	1
Davenport WB City	61.0	-5.4	82	4	35	29			2.81	-1.01	2.30	12				6	2	1
Iowa City	59.2	-5.7	80	4+	30	29		2	4.14	.00	1.55	12				8	4	2
Iowa City AP CAA	57.9	-7.0	82	4	38	29+		3	3.17	-.97	2.04	12				6	3	1
Le Claire Lock & Dam 14	60.7		81	4	34	29			2.63	-1.42	1.93	12				5	3	1
Maquoketa 5 E	58.7	-4.5	80	18	29	29		1	1.25	-2.85	.64	12				6	1	
Monmouth 4 SW	57.0	-6.6	79	4+	25	29		2	1.31	-2.84	.53	12				8	2	
Muscatine No. 1	60.8	-4.2	83	4	31	29		1	2.17	-1.73	1.25	12				5	2	1
Tipton	58.9	-5.7	81	4	28	29		1	2.76	-1.34	1.62	12				7	3	1
Vinton	58.9	-4.8	85	2	25	29		2	3.47	-.88	1.75	4				4	3	2
Williamsburg	58.8	-6.2	79	2+	31	29		1	3.78	-.44	1.31	3				7	4	1
DIVISION	59.0	-5.4							2.61	-1.54			T					
SOUTHWEST DIVISION																		
Atlantic 1 E	59.6	-5.6	88	3	26	29		2	2.54	-1.42	.81	6				6	3	
Atlantic AP CAA	57.1	-8.1	87	3	24	29		6	2.43	-1.53	1.00	10				5	2	1
Bedford 1 N	60.3	-6.2	85	20	33	29			3.03	-1.09	1.45	12				5	4	1
Clarinda	60.2	-5.9	90	3	27	29	1	2	2.78	-1.18	.88	11				8	6	
Corning 1 W	60.0	-5.5	87	3	31	29		1	2.19	-2.17	.82	10	T			5	3	
Council Bluffs 5 NE	59.8		88	3+	26	29		2	2.92		1.14	11				8	5	1
Glenwood 2 E	60.4 M	-6.2	88	3	27	29		2	5.79	2.04	1.44	10				10	5	3
Greenfield	59.2	-5.7	86	3	31	29		1	2.52	-1.12	.80	6				5	5	
Norwich SCS Farm 2 E	59.7	-6.5	87	3+	28	29		1	3.70	-.30	1.22	6				9	6	1
Oakland 2 E	58.7	-5.9	86	3+	24	29		2	2.51	-1.19	.75	6				6	4	
Red Oak	59.1	-6.9	88	3	25	29		3	3.27	-.53	.91	6	T			7	5	
Shenandoah	61.6	-5.4	89	3+	28	29		1	3.73	-.32	1.18	4				10	5	2
Sidney	62.7		88	3+	34	29			3.57		1.12	6				8	6	1
DIVISION	59.9	-6.1							3.15	-.77			T					
SOUTH CENTRAL DIVISION																		
Afton	58.0	-7.8	85	3	27	29		1	2.48	-1.91	.95	11				6	3	
Albia	60.8	-5.2	83	20	28	29		1	2.53	-1.64	1.30	12				4	2	2
Centerville	60.8	-6.2	84	3	29	29		1	2.92	-1.23	1.60	11				5	2	2
Chariton 3 E	59.7	-6.0	85	3	23	29		2	1.94	-2.27	1.18	11				3	2	1
Creston	58.7	-6.4	86	3	30	29		1	2.14	-2.39	.86	11				5	4	
Indianola	61.6	-4.5	88	20	30	29		1	1.92	-2.11	.71	11				5	3	
Knoxville 2 W	61.3	-4.9	84	20	31	29		1	1.41	-2.92	1.04	11				4	1	1
Lamoni	60.7	-5.4	85	20	33	29			7.82	3.51	6.38	12				8	2	1
Mount Ayr 2 N	59.2 M	-6.9	85	1	29	29		1	6.56	2.07	4.68	12				6	4	1
Osceola	61.3	-4.5	87	3+	33	29			1.66	-2.64	1.03	11				6	2	1
Tingley	58.8	-7.2	85	3+	27	29		3	2.50	-1.90	.80	6				6	4	
Winterset	61.6	-4.5	87	20	30	29		1	1.88	-2.19	.55	6				6	3	
DIVISION	60.2	-5.8							2.98	-1.31			0					
SOUTHWEST DIVISION																		
Burlington WB Airport	60.1	-6.3	86	3+	34	29			1.39	-2.87	.85	12				7	2	
Columbus Junction	60.1	-5.2	82	2+	30	29		1	2.56	-1.45	1.43	12				3	2	1
Fairfield	59.0	-7.0	81	3+	31	28		1	3.35	-.65	2.19	12				4	3	1
Keokuk Lock & Dam 19	61.6	-6.3	84	4	41	29+			2.85	-1.23	1.92	12				8	2	1
Keokuk WB City	61.6	-6.3	84	3	38	29			2.77	-1.31	1.53	11				7	2	1
Keosauqua State Park	60.8	-6.5	82	16	32	29		1	2.81	-1.30	1.49	12	T			6	2	1
Mount Pleasant	60.5	-6.0	82	2+	29	29		1	2.68	-1.61	1.53	12				5	2	1
Oskaloosa	60.4	-5.1	83	4	28	29		1	1.94	-2.16	1.26	11				7	2	1
Ottumwa 1 WSW	60.6	-6.3	85	18	31	29+		2	3.05	-1.12	1.48	12				5	2	2
Ottumwa AP CAA	60.5	-6.4	82	20	33	29			3.29	-.88	1.54	12				6	2	2
Sigourney	60.3	-5.5	82	18	31	29		1	3.08	-.76	1.47	12				5	2	2
Washington	60.3	-5.4	82	18	31	29		1	2.02	-2.06	1.02	12				4	2	1
DIVISION	60.5	-5.9							2.65	-1.45			T					
STATE	59.2	-5.2							3.21	-.80			T					

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
SEPTEMBER 1949

Table 3-Continued

Station	Day of month																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Salvera 5 W			.65		1.18	.22					1.91	.15																				4.11	
Mapleton 5 NW		.10			.18					1.75	.39	.17																				2.59	
Mapleton 2 SW			.12		.22	T				.93	1.01	.37																				2.65	
Maquoketa 5 E		.13	.07		.18	.01					.22	.64																				1.25	
Marion 4 NE	R	.46	.03		.03					.02	.43	1.13																				2.10	
Marshalltown	Z	.22	.54			.10					.69	.84	.04																			2.43	
Mason City 3 N		.20	1.01		.02	.02				.56	.76	.21																				2.83	
Mason City AP CAA		.93	.96		.16	.02				.64	.85	.15																				3.76	
Merrill 5 W			3.37		.11					.12	4.68	.05	.26																			8.63	
Millford 4 NW		.12	.76	T	.20	.04				*	1.78	.34																				3.30	
Millerton					.30					1.16		.50																				1.99	
Missouri Valley	Z	.20			.51	.02	T			1.56	.53	.85																				3.67	
Monmouth 4 SW		.26	.08	.02	.11	.03					.21	.53	.07																			1.31	
Monona	R	.26	.40		.11	.14					.35	.44																				1.74	
Montezuma		T	T	T	T	.17					1.01	.16	.01																			1.35	
Morse	R	.65	.03		.05					.01	.49	2.63																				3.86	
Morse 1 NE	R	.65	.02		.05					.02	.49	2.67																				3.90	
Morse 4 SSW	R	.50								.02	.54	2.42																				3.48	
Mount Ayr 2 N	Z		.44	.50						.15	.73	4.68		.06																		6.56	
Mount Pleasant	Z		.10		.07					.93	1.53	.05	T																			2.68	
Neville	R		3.75	.41		.18				1.91	.20	.17																				6.69	
Noscataine No. 1	Z	.03			.05	T				.71	1.25	.13																				2.17	
Noscataine No. 2			.11		.04					*	1.91	.12																				2.18	
Noscataine 6 N	R	.01	.20		.02					.05	.59	1.51	.03																			2.41	
New Hampton		.24			.07					.92	.37	.11																				1.79	
Newton			1.32	T		.27					1.04	.48																				3.11	
North English	R	.10	.13							.10	.82	.48																				1.63	
Northwood		.53		1.21	.01	.09					1.11		.23																			3.29	
Norwich 2 E SCS Fa.	Z		.99	.01	1.22	.01	.08			.26	.51	.35	.27																			3.70	
Oakland 2 E			.35		.75		T			.64	.55	.20																				2.51	
Oasis	R	.49	.03							.03	.62	2.06																				3.23	
Oelwein		1.08	.15		.12	.10					.55	.21	.23																			2.44	
Osawa			.07		.60					1.86	.15	.17																				2.86	
Osage		.20		.70	.03	.07					1.00	.30	.15																			2.49	
Osceola			.05		.33	.02				.05	1.03	.18		T																		1.66	
Oskaloosa		.04	.02		.04	.12	T				1.26	.45	.01																			1.94	
Ottumwa 1 WSW	Z	.24		.12	.01						1.20	1.48																				3.05	
Ottumwa AP CAA		.01	.07		.12	T				.10	1.45	1.54	T	T																		3.29	
Ottumwa			.34		.16	T					1.25	1.39																				3.15	
Pella		.23			.12						1.23	.15																				1.73	
Perry 2 SE		.15	.04		.36						1.00	.86																				2.41	
Pocahontas 2 SE		.30	.60		.17					1.25	.50	.20																					3.09
Pringhar		.18	.95		.39					.47	2.08	.25																				4.32	
Red Oak			.68		.91		.08			.59	.56	.40																				3.27	
Rossman	R	.94	.60		.23					4.51	.28	.19																				6.81	
Singsted	R	.19	.89		.19					1.14	.40	.21																				3.12	
Riverton			.69		1.13		.47			.37	.32	.21																				3.19	
Rock Rapids		T	1.10	T	.19					1.85	.98	.07																				4.25	
Rockwell City	Z	1.63	.07	T	.06					.47	1.26	.25																				3.74	
Sac City		2.39	.32		.13					.90	1.32	.22																				5.31	
Saint Charles	R	.29	.04		.47					.35	.39	.19																				1.73	
Sanborn		.04	1.25		.35					.50	1.57	1.05																				4.81	
Saratoga 2 E			.26	T	.01	.25					.84	.44	.02																			1.82	
Sheffield	R	1.46	.46		* .10					.40	.87	.06																				3.38	
Sheldon		.11	.99		.33	.04				.83	1.19	.50																				4.03	
Shell Rock	R	.92	.10		.07					.17	.87	.27	.01																			2.44	
Shenandoah			1.18	.01	1.00	.01	.07			.34	.61	.21																				3.73	
Sibley			1.80		.08	.13				.76	1.20	.25																				4.25	
Sidney			.92		1.12	.04	.06			.54	.30	.25	.34																			3.57	
Sigourney		.02	.23		.13	T				T	1.23	1.47																				3.08	
Sioux Center	R	.42	.74	.13	.41					2.02	.05	.29																				4.06	
Sioux City 8 N		3.75		.42							4.75																					8.92	
Sioux City WB AP	Z	.01	2.61	.07	.26	T	T			2.59	.21	.20																				5.99	
Sioux City 4 N		.11	1.21		.13	.08				.11	4.34	.05																				5.92	
Sioux Rapids		.68	.46		.13	.08				.97	1.50	.23																				4.22	
Soldier	R	.23	.05		.31					1.64	.79																					3.02	
Spencer 1 N		1.14	.57	.01	.29	.02				2.31	.29	.20																				4.89	
Spillville	R	.65	.39		.15	.07				.03	.67	.39																				2.03	
State Center		.73	.03		.10					T	.82	.88																				2.56	
Storm Lake 2 E		.22	1.13	.01	.09	.03				.38	1.46	.24	T																			3.63	
Strawberry Point	R	1.40			.08	.16				.01	.40	.50																				2.58	
Tabor 6 NW	R		.59		1.10		.10</																										

HOURLY PRECIPITATION

IOWA
SEPTEMBER 1949

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
SIoux CITY WB APT	-2d-																								.01	.01	
AMES 3SW	-3d-																									1.11	
CASCADE																									.21		
CHARLES CITY			.01	.01	.01	.03											.41	.36	.03	.14	.10	.20		1.37			
CHEROKEE	.02	.11																						.05			
COON RAPIDS					.02	.01	.02																	.22			
DAKOTA CITY				.06	.01	.04	.06	.05									.18	.08						.26			
DES MOINES WB APT																								.02			
DES MOINES WB CITY																	.20	.51	.29					1.00			
DEXTER										.16	.08	.07	.02											.33			
DUBUQUE WB CITY										.01	.01													.26			
FOREST CITY	.15	.02	.01	.01	.07																			2.67			
GRINNELL		.09	.07	.01	.01	.01		.03	.02	.33	.04	1.36	.67	.01	.02	.02	.06	.03	.09	.13	.19	.23	.02	.82			
HARTLEY 3S	.04	.01														.12	2.29	.05	.01	.01	.04			2.62			
HINTON 5WNW												.10								.15	.02			.17			
HORNICK						.02	.06	*	*	*	*	*	*	*	*	*	*	*	.33	.23		.01		.65			
IDA GROVE 4S																			.27								
IOWA CITY AP CAA	6															.04	*	*	*	*	*	*	*	.33			
IOWA C RALSTON CRK1																.05	.09	.04	.14	.01				.47			
IOWA C RALSTON CRK2																.16	.11	.01	.19					.32			
IOWA C RALSTON CRK3																.05	.08	.05	.13	.01				.55			
IOWA C RALSTON CRK4																.14	.09	.17	.15					.65			
IOWA C RALSTON CRK5																.05	.11	.14	.34	.01				1.70			
IOWA FALLS 1N			.28	.16	.51	.64	.01	.05	.05															.07			
KNOXVILLE 2W	.06	.01																						.67			
LARRABEE	.03	.01								.14	.13	.03	.06	.03	.02	.04	.01						.46				
MARION 4NE						.02	.19	.17	.13	.09	.07	.04			.10									.73			
MARSHALLTOWN NO 2	6	*	*	*	*	*	.83	*	*	*	*	*	*	*	.10	.12	.22	.16	.03	.01	.01			.28			
MASON CITY AP CAA						.03	.09	.12	.02															.85			
MONONA															.10	.12	.22	.16	.03	.01	.01			.65			
MORSE															.10	.11	.28	.16	.01	.02	.02			.50			
MORSE 1NE															.05	.13	.11	.15	.01	.02	.02			3.75			
MORSE 4SSW																			1.27	.03	.15	2.04	.24	.02			
MOVILLE															.01									.01			
MUSCATINE NO 1															.01									.01			
MUSCATINE 6N																								.10			
NORTH ENGLISH															.01	.09								.40			
OASIS															.04	.14	.14	.03	.11	.03				.11			
OTTUMWA 1WSW															.02	.08											
OTTUMWA AP CAA	6														.01									.94			
REMSEN																.04	.01	.22	.08	.32	.03	.13	.05	.06	.19		
RINGSTED			.03																		.03	.06	.04	.03	1.64		
ROCKWELL CITY				.01	.15	.82	.20	.25	.07	.14															.29		
SAINT CHARLES															.01	.18	.09	.01							1.46		
SHEFFIELD			.03	.72	.71																				.92		
SHELL ROCK				.43	.37	.09		.03												.02	.03	.07	.07	.09	.14	.42	
SIoux CENTER																									2.61		
SIoux CITY WB APT	.01																				1.71	.89			.23		
SOLDIER																					.66	*	*	*	*	*	.65
SPENCER 1N	6																								1.40		
SPILLVILLE				.42	.01	.01	.01		.15	.05															1.52		
STRAWBERRY POINT					.10	.54	.11	.24	.36	.05															.05		
TRAEER				.06	.08	.01	.54	.24	.17	.19	.17	.03	.01	.01	.01									.68			
WASHINGTON															.05										.35		
WEBSTER CITY		.11	.03	.01	.35	.01	.02	.06	.07						.02	.05	.14	.03	.11						.76		
WHEATLAND				.14	.62	.02																					
WOODBINE 5SE																											
AMES 3SW																									.04		
ATLANTIC AP CAA	//	.01		.03	.01	.02	.01	.02																	.19		
BELLEVUE L/D 12	//				.13	.02	.02	.03																	.05		
BURLINGTON WB APT	//		.04																		.05				.05		
CASCADE																									.02		
CENTERVILLE						.02					.04	.01	.01								.05	.01			.12		
CHARLES CITY																									.26		
CHEROKEE			.01		.04	.20	.01	.01																	.07		
COON RAPIDS					.02	.03	.01	.01																	.49		
COUNCIL BLUFFS 6 NE		.03	.21	.12	.03						.01	.03													.25		
DAKOTA CITY							.21	.02	.01	.01															.02		
DAVENPORT WB CITY					.01	.01	.01																		.01		
DES MOINES WB APT																									.01		
DES MOINES WB CITY						.01	.01																		.07		
DEXTER																									.75		
DUBUQUE WB CITY			.01	.01	.01	.04	.01														.02	.03			.04		
FOREST CITY									.17	.27	.14	.02			.02	.01	.07								1.20		
GREENFIELD				.03	.01																				.42		
HAMBURG	.55	.47	.16	.02																					.70		
HARTLEY 3S			.01	.03	.17	.02					.08				.01	.01	.05	.03	.01						.07		
HINTON 5WNW			.01	.27	.41	.01																			.11		
HORNICK			.02	.02			.03																				
IDA GROVE 4S			.01	.01	.09																				.02		
IOWA CITY AP CAA	6	*	*	*	*	*	.04																		.02		
IOWA C RALSTON CRK1							.02																		.03		
IOWA C RALSTON CRK2							.02																		.03		
IOWA C RALSTON CRK3							.03																		.04		
IOWA C RALSTON CRK4							.02																		.05		
IOWA C RALSTON CRK5							.04												.05						.08		
IOWA FALLS 1N										.07	.01														.19		
KEOUK WBO																									.46		
LAMONI			.01	.18																.01	.01				.88		
LARRABEE																											

HOURLY PRECIPITATION

IOWA
SEPTEMBER 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MARSHALLTOWN NO 2	.08	.22	.17	.03	.01																				1.33
MASON CITY AP CAA	.71	*	*	*	*	*	.74	*	*	*	*	*	.01												.70
MISSOURI VALLEY	.01		.01																	.58	.10				.35
MONROE	.01	.02	.07	.11	.06	.03			.05														.01	.05	.49
MORSE	.03	.02	.08	.10	.05	.04	.01	.01	.05	.04													.02	.04	.49
MORSE 1NE	.03	.04	.06	.14	.02	.05			.03	.02	.04													.01	.54
MORSE 4SSW	.04	.04	.12	.14	.04	.06			.01	.08													.01	1.27	1.55
MOUNT AYR 2N	.03	.20	.04																						.89
MOUNT PLEASANT			.02	.15	.20	.07	.07	.02	.17	.13	.02	.04													.20
NOVILLE	.01	.13	.04	.01	.01																				.68
MUSCATINE NO 1		.01	.05	.08	.24	.09	.08	.01		.05	.03													.04	.59
MUSCATINE 6N			.05	.18	.19	.06	.04		.02	.03														.02	.82
NORTH ENGLISH	.02	.07	.17	.19	.12	.02	.01	.10														.11	.01		.25
NORWICH 2E SCS FARM	.15	.07	.01	.01			.01																	.07	.62
OASIS	.02	.05	.09	.12	.08	.08	.02		.07	.02													.02	.07	1.18
OTTUMWA 1WSW	.08	.04	.18	.27	.11	.04	.26	.11					.25												.28
OTTUMWA AP CAA	.10	*	*	*	*	*	.69	*	*	*	*	*								.20					.40
REMSEN	.03	.03	.01	.01																					.47
RINGSTED	.30	.02	.06	.01	.01															.04	.06				.39
ROCKWELL CITY	.13	.11	.08	.04	.01																				.87
SAINT CHARLES	.19	.11	.07	.01	.01																				.05
SHEFFIELD	.08	.22	.17	.03		.21		.01	.01													.02	.08	.04	.21
SKELL ROCK	.14	.10	.15	.08	.01	.06	.19																	.14	.79
SIoux CENTER	.01												.01	.02	.01										.67
SIoux CITY WB APT	.14	.04	.02	.01																.40	.28				.40
SOLDIER	.05	.06																							.05
SPENCER 1N	.32	*	*	*	*	*	.29																		.69
SPILLVILLE	.06	.08	.09	.16	.12	.01		.12	.03																.21
STRAWBERRY POINT	.02	.02	.05	.12	.08	.01	.01	.03	.03	.03															.93
TABOR 6NW	.03	.01	.01																						.35
TRAEER	.09	.16	.22	.04		.01	.06	.02																.69	1.29
WALLIN 2WNW	.19	.01	.01																						.21
WASHINGTON	.01	.03	.07	.20	.22	.08		.01	.21	.06	.01	.01											.02	.01	1.43
WEBSTER CITY	.17	.11	.10	.02	.23																	.02	.63	.15	.35
WHEATLAND	.01	.02	.04	.07	.08	.01	.07	.05												.25	1.81	.13		.01	2.29
WOODBINE 5SE	.03	.01	.02	.03																					

-12th-

ALLERTON	*	*	*	*	*	2.78																			2.78
ARNS 3SW			.01	.06	1.06	.18																			1.31
ATLANTIC AP CAA	//	.01	.04	.09	.01																				.15
BELLEVUE L/D 12	//	.02	.01	.14	.17	.03		.08		.02	.04														.51
BURLINGTON WB APT	//	.01		.01	.26	.35	.21		.04													.01			.85
CASCADE		.19	.11	.03	.01																				.38
CENTERVILLE		.76	.37	.09	.15	.12	.01																		1.50
CHARLES CITY		.08														.06				.09	.04				.21
CHEROKKEE																									.06
COON RAPIDS		.04	.01	.21	.02																				.28
COUNCIL BLUFFS 6 NE		.01	.19	.09									.02												.31
DAKOTA CITY																.01	.01	.07							.09
DAVENPORT WB CITY		.01		.55	1.02	.32	.21	.08		.02	.03												.06		2.30
DERBY	.01	.01	.01	.13	.06		.01																		.23
DES MOINES WB APT				.44	.09	.01																			.54
DES MOINES WB CITY			.01	.32	.08																				.41
DESTER	.01	.03	.01	.04	.01																				.10
DUBUQUE WB CITY		.04	.17	.04				.02	.01	.01															.29
FOREST CITY																		.12	.01						.13
GREENFIELD	.01	.01	.16	.05																.25					.23
GRINWELL	.10	.03	.01			.07	.03																		.49
HAMBURG		.14	.05																						.19
HARTLEY 3S															.17	.02	.01								.20
HINTON 5WNW															.02	.01	.01								.04
HORNICK															.18	.01									.19
IDA GROVE 4S														.12	.02	.01	.12								.27
IOWA CITY AP CAA	6	.08	*	*	*	*	.81	*	*	*	*	*	.07												2.59
IOWA C RALSTON CRK1		.01	.48	.09	.01	.27	.08	.04	.02	.05											.27	.83	.44		2.59
IOWA C RALSTON CRK2		.01	.47	.10	.23	.12	.10	.04	.10												.36	.83	.23		2.32
IOWA C RALSTON CRK3		.01	.30	.32	.23	.13	.06	.01	.05												.12	.78	.31		1.72
IOWA C RALSTON CRK4		.18	.18	.09	.04	.03	.05														.89	.25	.01		2.59
IOWA C RALSTON CRK5		.01	.81	.28	.21	.10	.05		.03											.02	.36	.02			.43
IOWA FALLS 1N		.01	.01	.01																	.05	.01	.08	.01	.82
KNOX WB		.01				.27	.24	.05	.03															.04	.03
KNOXVILLE 2W		.02		.04	.06	.01																			.13
LANONI	1.04	.70	.25	.10	.03																				2.12
LARRABEE														.02	.06										.08
LENOX		.02	.10	.09	.01																				.22
MARION 4NE	.52	.29	.05	.01																			.26		1.13
MARSHALLTOWN NO 2	6	.02	.01	.01	.01																	.04			.07
MASON CITY AP CAA																									.11
MISSOURI VALLEY		.02	.03	.06																					.44
MONROE		.19	.01																		.11				.61
MORSE	.05	1.31	.17	.02	.14	.14	.06	.01	.05													.07	.06		2.63
MORSE 1NE	.03	1.29	.13	.02	.14	.13	.04	.01	.09													.05	.61	.02	2.67
MORSE 4SSW	.04	.69	.24	.02	.19	.11	.02	.08	.07	.01											.18	.60	.01		2.42
MOUNT AYR 2N	2.72	.35	.17	.13																	.34	.51	.10		3.37
MOUNT PLEASANT																									

HOURLY PRECIPITATION

IOWA
SEPTEMBER 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
	-13th-																									
DAVENPORT WB CITY	.01																								.01	
IOWA CITY AP CAA	1.15																								.01	
KEOKUK WBO	.01																								.03	
MUSCATINE 6W	.03																								.01	
OTTUMWA AP CAA	.04																								.01	
SHELL ROCK		.01																								
	-14th-																									
BURLINGTON WB APT																									.03	
HAMBURG						.01	.01		.23				.05			.02	.01								.30	
KEOKUK WBO													.02	.04		.01	.04								.05	
MOUNT AYR 2N																									.06	
	-17th-																									
BELLEVUE L/D 12																							.01	.01	.03	.05
BURLINGTON WB APT													.01												.01	.03
DERBY																									.12	.12
KEOKUK WBO																										.05
LENOX																										.05
	-18th-																									
BELLEVUE L/D 12	.02																								.02	
DUBUQUE WB CITY	.01		.01																						.02	
KEOKUK WBO	.04	.01																							.05	
	-20th-																									
GREENFIELD																									*	
	-21st-																									
BURLINGTON WB APT													.01												.01	
GREENFIELD																									.49	
LAMONI								.12																	.12	
	-22d-																									
DUBUQUE WB CITY																	.02								.02	
	-26th-																									
CASCADE																		.02							.02	
CHARLES CITY																									.02	
CHEROKEE															.03										.03	
COUNCIL BLUFFS 6 NE															.02	.02									.05	
DAKOTA CITY															.02	.07	.03								.12	
FOREST CITY															.02	.02	.04								.06	
HAMBURG															.02	.04									.05	
HARTLEY 3S															.04	.05									.08	
RINTON 5WVW													.04	.05											.09	
LARRABEE																									.04	
MASON CITY AP CAA															.03	.01									.07	
MONONA													.01	.02	.04										.06	
MOVILLE													.04	.02											.10	
REMSEN													.01	.05	.03										.03	
RINGSTED																	.01	.02							.03	
SHEFFIELD																		.03							.04	
SHELL ROCK													.02	.02											.07	
SIoux CITY WB APT																									.06	
SPENCER 1N																									.02	
SPILLVILLE																									.01	
STRAWBERRY POINT																									.02	
TRAEER																									.03	
WEBSTER CITY																	.02	.01							.03	
	-30th-																									
HARTLEY 3S						.07	.01																		.08	



DAILY TEMPERATURES

IOWA
SEPTEMBER 1949

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
AFTON	MAX MIN	75 36	80 45	85 58	78 57	76 47	79 50	65 52	72 42	77 44	65 46	75 53	80 54	60 34	60 36	68 37	75 45	78 53	79 46	75 42	83 40	72 45	72 40	64 34	72 35	75 40	79 46	71 40	68 33	63 27	70 33	73.0 43.0	
ALBIA	MAX MIN	72 38	81 49	82 67	81 65	77 53	65 54	68 52	75 42	78 43	73 50	68 57	82 60	63 42	63 43	69 53	76 60	79 53	81 50	74 45	83 51	72 48	75 39	65 38	74 47	75 50	79 49	72 38	61 28	65 28	73 42	73.3 48.3	
ALGONA	MAX MIN	76 40	81 53	76 57	73 59	69 52	62 53	66 53	73 48	80 46	67 50	73 55	70 52	58 39	66 37	71 47	76 50	77 58	78 52	68 45	85 42	74 51	71 46	68 38	75 40	77 52	77 56	69 47	57 36	65 30	71 37	71.6 47.4	
ALLISON	MAX MIN	72 35	83 48	79 62	80 58	71 56	71 53	72 54	72 44	78 46	75 50	70 56	70 50	60 40	65 36	71 46	78 49	78 52	80 48	66 45	72 41	80 42	72 47	74 38	75 37	78 45	79 50	65 51	58 35	65 28	68 36	72.6 45.9	
ALTA	MAX MIN	77 39	81 54	77 60	73 57	73 50	65 54	87 54	73 47	75 49	65 55	76 56	68 49	58 34	66 39	70 46	78 50	76 54	75 48	70 45	86 47	73 48	67 46	66 37	70 44	77 50	71 50	62 45	58 33	66 33	70 41	71.0 47.1	
ALTON	MAX MIN	77 46	81 54	80 62	73 58	72 52	70 55	70 54	74 48	74 44	72 55	71 56	60 50	67 36	72 35	80 48	83 49	74 53	72 42	86 45	76 48	69 48	68 54	76 35	79 38	70 50	67 54	59 43	67 33	67 26	73 37	72.8 46.9	
AMES SSW	MAX MIN	74 37	81 50	73 62	77 60	74 52	64 53	66 56	74 41	73 42	70 42	71 57	77 58	59 40	65 40	69 43	78 49	70 57	79 46	72 48	85 40	77 50	72 46	64 40	73 35	78 47	77 49	63 48	58 37	63 29	71 34	71.6 46.2	
ARAMOSA 1NW	MAX MIN	70 36	79 45	70 57	78 60	73 53	63 45	63 52	73 36	75 38	75 43	65 55	72 62	68 46	61 34	68 44	70 46	70 57	79 55	68 46	74 34	69 52	72 45	63 37	71 30	73 40	78 49	72 48	58 42	62 24	71 29	70.1 44.7	
ATLANTIC 1E	MAX MIN	75 36	82 49	88 65	76 61	78 49	65 49	67 57	75 44	79 43	60 52	74 58	81 54	63 36	65 40	69 44	75 49	67 58	80 42	78 41	86 45	75 48	73 48	69 36	76 34	79 47	78 52	66 44	61 32	67 32	73 38	73.3 45.9	
ATLANTIC AP CAA	MAX MIN	75 32	80 46	87 64	76 60	76 46	64 54	65 45	74 42	76 40	60 48	74 57	79 44	60 36	65 39	68 42	74 49	67 57	80 39	75 43	85 43	70 37	71 32	65 32	74 32	75 45	76 42	60 39	58 30	64 24	70 27	71.8 42.4	
AUDUBON 2S	MAX MIN	71 38	80 43	73 54	75 51	81 58	76 52	66 54	69 42	76 58	64 51	76 53	74 50	59 35	65 40	68 42	75 49	68 54	78 46	85 46	70 48	70 45	65 38	73 36	75 45	76 52	60 40	58 32	64 32	70 36	71.1 45.8		
BANCROFT	MAX MIN	78 36	86 52	81 60	72 61	72 51	67 52	87 52	75 39	81 45	79 45	72 55	72 52	66 41	69 34	75 41	80 41	81 49	77 55	69 45	87 42	84 41	68 46	64 36	79 38	81 51	75 56	62 47	57 37	68 27	75 38	74.0 45.6	
BEDFORD 1N	MAX MIN	75 40	80 48	84 62	79 59	70 54	75 54	66 57	71 49	76 49	69 53	73 57	78 56	61 37	58 44	65 41	75 42	72 41	80 42	78 45	85 50	74 51	73 44	69 39	72 39	75 47	81 49	72 44	62 36	65 33	70 40	72.8 47.7	
BELLE PLAINE	MAX MIN	74 37	83 47	70 59	81 63	76 52	61 54	63 40	76 42	63 42	63 48	76 56	78 62	68 43	60 38	71 42	75 48	71 56	81 49	72 44	79 39	72 49	77 41	65 37	74 34	76 42	82 49	70 45	61 39	64 28	73 32	72.4 45.6	
BELLEVUE LOCK AND DAM 12	MAX MIN	71 38	78 46	70 53	80 59	76 57	66 44	62 54	75 38	74 41	73 41	67 57	69 61	68 46	69 35	68 39	70 47	80 56	89 46	71 37	70 56	69 47	61 40	69 32	72 36	78 49	70 49	59 45	62 26	70 30	69.9 45.3		
BLOOMFIELD 2N	MAX MIN										73 51	68 64	71 57	67 49	60 43	67 46	74 54									73 54	69 42	73 58	59 51	60 43	68 29	68 34	- -
BOONE	MAX MIN	76 42	83 52	75 61	77 62	74 53	66 53	66 56	74 44	77 47	71 51	73 56	78 55	62 39	67 42	72 46	79 50	72 58	80 49	72 47	85 47	75 52	70 50	64 41	75 41	78 48	77 52	67 49	57 38	65 31	72 40	72.6 48.4	
BRITT	MAX MIN	69 32	78 50	74 50	76 58	70 49	67 49	59 45	65 41	72 40	75 48	62 54	61 50	54 35	66 32	67 44	75 46	73 55	70 44	71 40	82 38	84 57	61 41	60 33	69 34	72 48	82 52	55 41	49 44	60 25	66 36	68.1 43.7	
BURLINGTON WB APT	MAX MIN	73 40	82 47	86 60	86 64	78 59	63 53	71 47	75 43	76 44	68 48	81 57	63 63	56 43	70 40	71 42	72 48	82 55	73 49	79 41	69 48	75 43	65 39	71 38	74 46	79 47	75 50	60 42	63 42	71 34	71 36	72.8 47.4	
CARROLL	MAX MIN	77 37	84 52	79 61	75 60	76 51	67 53	69 56	74 43	79 45	68 51	76 51	73 51	59 36	68 40	73 44	78 50	76 49	78 44	86 45	75 49	71 50	66 48	77 38	78 48	74 53	61 47	60 35	69 28	74 38	73.1 46.7		
CASCADE	MAX MIN	72 36	80 46	69 54	79 58	73 54	59 45	63 52	76 36	77 38	77 40	66 57	73 62	66 47	62 34	69 40	68 45	70 56	80 55	69 43	73 34	69 53	72 43	74 37	66 29	73 38	45 46	46 45	21 21	27 27	70.7 44.0		
CASTANA 4E	MAX MIN	77 42	81 54	86 64	85 61	76 49	73 54	68 54	73 47	75 48	75 55	71 58	67 47	61 33	65 43	69 43	78 45	75 49	77 56	74 50	87 45	70 50	77 49	76 58	74 39	77 44	72 50	58 47	65 34	72 34	73 39	73.1 48.4	
CEDAR RAPIDS NO 1	MAX MIN	73 39	80 47	68 59	80 62	75 54	61 50	64 53	75 40	77 41	75 46	65 56	75 62	68 45	63 38	69 45	73 48	80 58	68 54	77 48	82 38	84 53	61 45	60 39	69 34	72 43	82 50	49 40	64 28	64 28	71 34	71.2 46.6	
CENTERVILLE	MAX MIN	73 39	81 47	84 63	80 64	78 58	73 55	71 56	73 42	76 42	67 47	80 57	64 61	64 41	67 40	75 41	76 53	81 60	75 46	83 47	77 52	76 48	65 40	73 37	74 45	78 48	73 45	60 37	65 29	70 38	73.8 47.7		
CHARITON 3E	MAX MIN	74 33	80 49	85 59	82 64	78 50	70 53	67 56	74 38	77 39	72 44	70 57	80 60	74 48	65 37	68 40	76 50	79 46	82 44	77 39	84 42	78 50	77 44	65 38	73 35	75 42	80 48	73 42	62 37	64 23	71 30	74.4 45.0	
CHARLES CITY	MAX MIN	73 38	82 53	74 61	77 56	70 52	53 51	67 45	72 42	77 42	71 49	68 56	73 50	56 40	64 36	70 48	75 50	79 46	79 44	64 39	79 50	68 44	72 38	62 36	73 48	75 53	77 44	64 35	57 28	63 35	70 35	70.3 45.6	
CHEROKEE	MAX MIN	76 36	83 53	82 59	74 60	75 48	63 54	68 53	75 43	76 44	77 53	71 55	59 48	68 34	88 35	72 46	79 49	77 52	75 45	72 43	87 48	70 46	69 45	67 35	75 39	76 49	72 57	63 44	59 33	67 26	72 37	72.6 45.6	
CLARINDA	MAX MIN	80 35	83 45	90 55	78 60	80 50	76 55	66 59	73 46	80 42	67 50	80 57	80 50	65 38	60 42	72 40	78 45	76 56	82 47	80 41	87 45	76 47	74 41	71 34	75 33	81 44	82 46	77 39	66 35	70 27	73 29	75.9 44.4	
CLARION	MAX MIN	72 32	84 50	75 58	75 61	71 51	61 57	68 54	73 38	78 41	69 47	70 55	74 54	59 39	63 32	71 46	78 49	79 58	78 42	68 46	85 41	78 49	71 35	63 34	74 48	78 53	63 42	57 38	63 23	71 35	71.6 44.9		
CLINTON NO 1	MAX MIN	70 42	80 46	77 53	80 60	74 58	65 51	63 55	76 48	77 47	78 57	68 62	70 49	66 41	60 47	71 47	68 55	84 61	75 48	71 42	75 56	84 48	71 42	68 39	75 42	76 45	80 42	72 45	60 32	65 36	75 36	72.1 48.5	
COLUMBUS JUNCTION	MAX MIN	70 40	82 49	79 62	82 63	75 55	66 50	67 51	73 41	76 44	76 47	69 56	76 62	69 48	60 39	71 44	70 57	75 44	80 60	69 49	73 55	72 42	65 40	74 34	78 48	79 50	72 46	69 43	60 30	73 35	72.5 47.6		
COBURN 1W	MAX MIN	76 39	83 50	87 60	71 59	84 51	68 53	65 58	73 45	78 46	68 51	73 55	79 37	61 42	57 41	67 48	76 58	72 45	80 45	77 49	86 49	75 44	72 44	65 39	74 38	78 48	79 50	69 44	66 31	73 37	73.2 46.8		
COUNCIL BLUFFS 5NE	MAX MIN	78 36	82 49	88 63	83 61	75 48	72 54	67 58	74 45	76 41	75 51	64 58	64 33	69 41	76																		

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Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
DELAWARE 2W	MAX MIN	73 33	80 44	78 58	76 48	73 45	57 46	62 36	64 39	75 39	75 39	64 52	76 58	67 40	63 32	70 40	70 43	68 55	82 47	67 41	72 34	72 46	73 41	64 32	71 31	76 42	80 44	67 42	60 35	63 25	72 31	70.3 41.8
DENISON 18	MAX MIN	76 39	82 51	85 61	75 60	75 50	67 54	66 55	72 45	72 45	68 55	75 57	69 48	60 35	65 40	67 45	79 51	75 57	78 45	74 44	86 45	76 50	70 47	66 34	75 38	77 49	77 54	63 45	58 36	66 27	71 40	72.2 46.7
DES MOINES WB APT	MAX MIN	73 38	81 51	76 62	77 62	76 54	62 53	65 51	74 45	77 49	67 52	73 58	82 51	60 39	66 43	69 43	77 51	72 58	80 49	74 47	86 47	70 50	73 46	65 39	73 40	76 48	79 51	65 48	59 38	66 32	72 38	72.2 47.8
DES MOINES WB CITY	MAX MIN	74 42	81 53	76 65	77 62	78 55	64 54	66 51	74 46	77 48	68 50	73 59	82 50	61 42	66 44	70 45	78 52	72 58	81 50	73 52	86 46	71 52	75 49	66 42	74 39	78 49	81 52	66 46	61 40	65 33	73 36	72.8 48.7
DUBUQUE L AND D 11	MAX MIN	68 42	74 50	65 56	76 61	71 56	63 48	62 54	68 43	68 47	71 50	64 56	71 61	65 45	59 38	68 45	66 48	68 56	86 56	68 47	70 43	69 55	68 47	61 43	70 36	71 46	74 51	78 48	60 46	57 32	65 39	67.8 48.2
DUBUQUE WB CITY	MAX MIN	70 44	79 52	69 59	78 63	70 54	58 52	61 49	73 44	76 48	75 50	67 58	74 60	60 45	61 41	70 46	67 49	69 59	80 58	68 49	72 42	69 58	71 49	63 42	72 38	72 48	83 53	70 48	61 41	66 33	75 38	69.3 49.1
ELKADER	MAX MIN	76 34	86 46	76 54	82 60	81 50	64 43	67 43	77 38	80 37	76 39	66 55	82 61	76 44	66 43	74 38	69 45	74 56	84 44	74 33	85 49	75 43	67 33	63 31	74 31	77 34	74 36	62 41	55 38	65 21	71 26	70.9 42.0
EMMETSBURG	MAX MIN	76 39	81 51	75 58	72 57	68 52	62 53	66 46	73 46	76 46	69 49	76 56	70 53	57 38	65 38	72 48	78 49	75 53	74 48	69 44	86 40	78 47	67 45	63 38	74 37	77 52	76 54	63 46	59 36	69 28	73 34	72.6 46.2
ESTHERVILLE	MAX MIN	81 37	86 56	80 55	71 56	73 50	61 53	69 52	77 45	80 47	65 50	74 55	68 48	57 38	69 35	75 48	77 48	79 52	75 48	70 45	87 40	72 45	70 42	66 45	77 35	79 52	76 53	63 44	59 33	69 28	73 35	72.6 45.7
FAIRFIELD	MAX MIN	78 39	71 44	81 57	80 62	81 53	76 53	62 41	70 43	73 47	76 47	71 51	77 57	80 45	60 40	62 42	70 48	72 55	77 48	80 48	72 40	78 46	68 45	75 39	83 36	75 46	78 46	70 40	59 31	60 33	71 41	72.2 45.7
FAYETTE	MAX MIN	74 32	83 49	74 57	73 60	70 51	62 44	65 52	74 35	76 36	75 40	68 56	79 60	71 42	62 31	70 44	70 48	72 58	80 42	67 46	73 32	68 50	72 38	62 36	71 28	73 40	80 48	64 42	56 38	61 20	70 26	70.5 42.7
FOREST CITY	MAX MIN	76 31	85 54	76 58	71 56	69 52	61 50	68 52	73 38	80 38	66 47	70 54	77 53	59 38	66 30	73 45	78 48	79 57	78 36	65 42	85 36	70 42	70 38	63 33	75 30	79 48	76 49	65 38	56 38	64 20	72 30	71.5 42.7
FORT DODGE	MAX MIN	75 37	81 52	76 59	75 62	74 52	63 53	67 55	76 43	78 45	67 49	72 56	75 54	59 38	67 35	71 47	79 49	80 55	78 45	71 47	86 41	77 52	69 50	65 48	74 35	77 50	76 55	63 48	58 36	66 26	74 38	73.5 46.9
GLENWOOD 2E	MAX MIN	78 38	82 52	88 67	80 61	75 49	70 56	67 60	73 45	71 55	71 55	75 59	64 52	61 43	70 41	75 45	72 58	81 49	80 48	78 43	86 46	73 51	72 45	70 47	63 41	75 47	78 49	67 44	57 36	62 31	70 39	71.8 46.8
GREENFIELD	MAX MIN	73 38	80 48	86 63	75 61	75 51	67 54	70 49	71 47	75 50	67 51	74 52	81 36	60 42	63 42	69 49	73 48	79 48	72 43	80 43	72 46	83 47	69 47	73 47	63 34	72 49	75 44	67 46	59 42	63 30	71 32	71.7 44.9
GRINNELL	MAX MIN	72 33	81 45	72 59	79 61	75 54	60 52	62 50	74 41	77 42	73 48	69 54	83 60	62 38	61 37	69 42	76 47	71 56	79 47	72 43	80 42	73 46	76 47	65 34	73 49	76 44	80 46	71 42	67 34	65 30	71 32	73.2 45.0
GRUNDY CENTER 4NE	MAX MIN	75 35	82 48	73 58	78 60	74 50	70 51	74 41	79 42	73 48	69 54	77 58	69 39	67 35	70 43	77 47	71 55	80 46	69 44	80 40	75 49	74 45	67 38	73 36	76 44	80 50	71 46	67 38	65 27	71 36	73.2 45.0	
GUTHRIE CENTER	MAX MIN	74 40	80 53	76 62	76 61	73 52	65 54	64 57	70 45	74 50	66 50	73 58	76 54	58 38	65 42	69 45	76 50	68 59	78 59	73 46	84 46	75 51	70 50	63 40	74 40	76 46	76 52	61 49	57 36	64 30	71 39	70.6 46.4
HAMPTON	MAX MIN	73 37	81 53	75 57	75 60	70 52	63 52	65 53	72 45	75 45	68 36	68 52	72 55	59 39	64 36	70 48	76 50	77 58	78 50	73 45	82 40	78 51	62 45	73 37	75 49	75 54	64 47	57 38	63 28	70 42	70.6 46.4	
HARLAN	MAX MIN	78 37	81 48	86 65	76 62	77 50	72 55	65 56	74 46	75 44	72 53	72 58	68 53	63 37	65 42	70 44	76 51	72 57	79 43	76 41	86 48	79 51	67 45	73 37	75 49	76 52	63 46	59 34	67 29	72 36	72.9 46.9	
HAWARDEN	MAX MIN	82 36	85 58	88 54	73 58	74 50	66 55	70 50	75 44	75 44	63 53	71 57	66 48	61 35	71 48	75 54	84 48	80 52	75 45	73 46	88 44	73 41	70 23	78 37	80 54	75 51	70 40	64 31	60 26	73 41	74.6 47.6	
IDA GROVE 4S	MAX MIN	81 38	84 52	84 63	76 60	76 49	66 55	70 54	78 44	81 48	66 53	78 56	69 49	61 36	68 41	74 45	80 50	79 55	79 45	79 45	87 49	75 50	73 50	63 36	73 42	75 50	80 47	70 44	60 36	63 32	71 32	73.6 43.7
INDEPENDENCE 2W	MAX MIN	75 34	82 45	77 55	78 59	75 49	69 48	65 50	73 40	77 42	75 42	70 53	81 56	74 41	63 34	69 42	73 45	71 55	80 48	73 43	76 43	88 37	75 44	78 36	67 48	80 48	74 51	70 47	62 44	64 35	75 33	74.8 48.3
INDIANOLA	MAX MIN	77 46	85 51	80 66	80 63	77 52	69 54	65 53	76 42	80 49	66 51	74 56	85 41	63 42	68 42	73 50	80 58	76 49	83 48	77 48	88 48	75 52	78 48	67 38	78 36	80 48	74 51	70 47	62 47	64 30	75 39	72.1 45.0
INWOOD 2W	MAX MIN	79 35	83 53	85 61	68 57	72 49	64 54	69 52	75 44	75 44	68 56	72 55	67 45	60 32	67 32	73 46	82 49	75 49	74 44	72 40	86 46	72 45	70 41	67 33	77 44	79 52	60 42	59 28	61 31	71 39	71.5 46.6	
IOWA CITY	MAX MIN	71 40	79 44	72 57	80 62	74 54	65 52	65 54	74 42	75 44	66 48	77 56	70 63	83 47	69 39	72 45	76 48	80 57	74 48	70 47	86 47	78 53	69 44	70 39	78 41	80 53	75 43	64 35	74 42	73 30	73 32	72.1 43.7
IOWA CITY AP CAA	MAX MIN	72 36	81 40	73 54	82 59	75 49	60 45	66 45	76 39	77 41	76 40	67 57	78 56	61 40	63 40	70 45	78 48	71 58	80 42	78 51	87 42	83 49	72 39	63 38	73 32	76 45	77 46	65 37	58 28	65 28	72 28	71.2 44.8
IOWA FALLS 1N	MAX MIN	75 36	83 51	79 58	74 60	72 51	65 51	61 50	73 41	78 45	71 47	69 51	74 39	58 44	65 34	78 43	71 48	78 57	80 44	78 47	87 44	83 37	72 45	70 34	78 45	80 51	76 45	61 37	57 25	63 32	71 32	70.8 47.6
JEFFERSON	MAX MIN	73 39	80 53	75 65	75 62	72 52	66 54	65 55	73 44	75 44	68 57	72 56	74 41	58 38	65 46	69 46	77 50	71 59	77 44	70 47	84 46	78 47	63 48	73 37	75 47	74 54	63 49	59 36	60 29	60 34	71.3 51.9	
KEOKUK L D 19	MAX MIN	65 48	72 52	79 60	84 67	82 61	76 56	68 56	71 56	70 58	73 52	77 58	70 50	67 48	77 50	72 47	62 50	66 55	70 49	78 54	74 49	82 50	76 51	63 45	74 45	76 51	82 45	71 53	65 44	60 41	67 41	71.8 51.3
KEOKUK WBO	MAX MIN	73 45	80 55	84 63	83 68	77 60	65 54	70 50	75 48	76 50	67 55	77 59	76 60	60 47	54 45	67 44	71 53	72 59	81 58	75 42	79 42	66 49	77 41	64 37	74 45	76 53	79 49	61 45	65 38	74 42	73.0 48.5	
KEOSAUQUA STATE PE	MAX MIN	72 43	80 49	81 60	80 64	78 57	66 54	68 55	75 44	77 46	72 47	66 57	79 64	69 47	57 40	69 42	73 51	82 58	76 49	80 42	87 42	83 49	72 39	63 37	73 41	76 45	80 48	73 48	61 36	65 32	72 37	74.3 48.3
KNOXVILLE 2W	MAX MIN	73 41	81 51	79 64	8																											

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Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MAPLETON 5NW	MAX MIN	78 36	81 54	85 63	76 59	73 47	67 55	67 55	76 43	75 42	63 53	75 57	68 46	62 35	66 40	70 46	79 50	75 54	77 42	74 42	88 47	71 51	70 50	67 36	75 37	78 52	74 50	59 45	59 33	67 27	72 40	72.2 46.2	
MAQUOKETA 5E	MAX MIN	71 39	77 45	69 55	79 59	78 53	61 45	63 53	76 43	77 46	75 48	66 56	68 61	68 46	60 39	68 44	68 44	70 55	80 58	71 47	72 41	73 55	75 48	67 38	73 38	72 44	77 45	71 49	59 43	65 29	70 37	70.6 46.8	
MARSHALLTOWN	MAX MIN	75 36	83 51	70 58	79 61	74 53	90 53	67 53	75 39	79 42	74 45	71 56	79 59	65 41	65 37	71 44	78 49	69 56	81 47	70 47	83 37	69 51	74 42	64 37	74 32	72 44	81 51	65 47	59 39	64 27	73 29	72.1 45.4	
MASON CITY 3N	MAX MIN	74 33	83 53	75 57	75 59	70 53	58 50	69 50	72 42	79 40	68 47	69 55	75 52	56 39	65 33	72 48	77 49	79 59	77 42	64 42	83 35	74 48	70 44	63 35	75 33	78 51	75 52	65 43	57 38	64 25	72 37	71.1 44.8	
MASON CITY AP CAA	MAX MIN	74 35	83 53	74 56	76 56	68 51	58 51	67 45	71 43	79 43	66 46	69 54	74 48	57 37	64 34	71 48	76 50	77 56	77 44	63 40	82 37	67 47	70 43	61 38	74 35	77 47	75 51	63 41	55 33	64 24	71 35	70.1 44.0	
WILFORD 4NW	MAX MIN	78 37	83 53	80 58	68 55	72 49	61 54	67 52	75 45	76 47		72 53	67 48	58 35	67 35	73 47	78 49	76 51	74 45	69 40	86 45	71 49	66 41	64 33	75 39	78 51	71 54	61 43	56 32	66 32	71 36	71.0 45.1	
WILLERTON	MAX MIN	72 40	80 47	86 62	80 63																			64 35	74 38	75 45	80 49	74 47	61 36	67 32	71 36	- -	
MISSOURI VALLEY	MAX MIN	81 44	85 55	91 66	80 62	80 48	67 56	71 55	77 48	79 48	66 56	75 59	70 50	68 34	68 43	72 45	80 52	76 58	83 45	81 44	89 53	76 49	75 48	73 38	78 46	80 50	79 55	65 42	64 33	70 29	75 42	75.8 48.4	
MONMOUTH 4SW	MAX MIN	70 36	77 46	68 54	79 57	76 51	66 44	62 49	73 40	76 42	77 43	65 53	69 58	67 43	59 33	68 40	69 44	75 53	79 58	72 44	73 34	69 46	71 43	64 36	72 31	73 40	78 44	69 44	59 41	64 25	72 34	70.4 43.5	
MOUNT AYE 2N	MAX MIN	85 37			78 60	75 52	65 55	66 57	70 45	75 46	66 51	69 54	77 57	61 39	61 42	87 42	75 50	74 58	80 49	76 51	84 44	74 51	74 44	65 39	72 36	75 46	80 50	74 44	59 37	63 29	72 32	71.9 46.5	
MOUNT PLEASANT	MAX MIN	73 41	82 54	81 59	82 64	78 56	70 53	71 53	75 41	78 42	75 48	67 56	80 63	71 47	60 39	70 41	72 48	76 60	82 71	73 60	78 49	70 55	75 43	65 39	72 35	75 45	79 46	76 46	62 42	29 34		73.6 47.4	
MUSCATINE NO 1	MAX MIN	73 42	82 49	80 60	83 62	78 55	68 50	66 55	76 43	77 45	77 45	69 56	78 62	75 40	62 45	71 49	77 56	82 60	71 49	77 41	82 56	71 41	77 56	71 42	65 36	72 46	74 50	79 50	72 44	61 31	64 35	74 35	73.4 48.1
NEW HAMPTON	MAX MIN	73 28	83 42	72 49	78 53	72 46	57 42	68 41	73 33	78 33	71 40	68 49	71 49	57 36	65 28	70 39	73 41	76 52	80 38	66 39	76 30	70 45	72 39	64 30	73 26	75 36	79 45	67 38	59 31	63 19	71 27	70.7 38.1	
NEWTON	MAX MIN	75 39	81 51	71 52	79 64	77 53	65 54	66 56	75 43	77 46	70 51	71 57	82 51	60 41	61 42	69 43	77 50	73 58	81 50	74 47	84 46	75 49	76 48	67 40	74 40	76 46	81 51	68 47	60 38	64 32	72 39	72.7 47.5	
NORTHWOOD	MAX MIN	75 35	82 49	76 56	73 59	69 52	65 50	69 51	73 44	79 45	71 45	67 54	79 54	56 39	65 35	72 47	75 46	79 59	78 47	66 43	80 37	76 45	70 44	63 35	75 35	76 47	75 51	63 43	57 36	65 26	71 34	71.3 44.8	
NORWICH 2E SCS FARM	MAX MIN	76 38	82 45	87 58	76 58	76 49	70 53	66 55	73 46	76 45	70 53	75 57	78 53	62 35	59 42	67 39	78 45	80 55	87 45	87 49	77 51	73 42	70 38	75 37	76 44	79 45	69 40	63 34	66 28	73 36	73.6 45.7		
OAKLAND 2E	MAX MIN	76 33	81 48	86 58	76 61	78 48	70 55	66 59	74 43	72 41	60 50	75 58	78 52	62 35	68 40	73 44	76 50	68 50	80 40	77 37	86 47	75 46	72 42	68 31	75 33	76 50	77 53	69 36	60 33	61 24	73 36	72.9 44.4	
OELWEIN	MAX MIN	73 38	82 49	70 60	78 62	70 52	57 49	63 54	73 40	76 40	74 47	75 49	79 60	70 44	61 37	70 48	72 48	68 58	80 46	66 46	74 37	68 52	72 45	62 37	72 34	75 46	80 51	64 47	58 39	61 27	70 33	70.4 45.8	
ONAWA	MAX MIN	82 35	85 50	89 63	76 62	79 43	74 50	71 56	77 45	80 44	67 55	82 58	63 47	66 34	71 40	75 44	83 50	79 53	80 46	79 39	91 47	75 48	73 48	71 36	79 39	82 50	74 52	60 41	62 31	72 26	76 39	75.8 45.7	
OSAGE	MAX MIN	73 39	82 62	75 60	76 62	69 56	60 53	66 55	70 48	77 37	69 45	67 52	71 53	57 37	63 30	71 43	74 44	78 54	79 39	66 41	78 33	76 46	75 42	61 34	73 30	75 42	76 47	64 41	65 33	63 22	70 30	70.6 43.7	
OSCEOLA	MAX MIN	75 42	83 48	87 63	79 62	78 52	72 54	67 58	75 47	80 49	72 50	72 56	83 60	62 39	60 44	70 42	78 50	77 58	82 48	78 45	87 52	73 47	76 40	65 43	74 45	78 45	81 46	73 46	60 36	66 33	72 37	74.5 48.1	
OSKALOOSA	MAX MIN	72 38	82 49	78 61	83 66	78 53	68 55	67 54	74 39	79 41	73 49	68 57	82 64	67 43	64 40	70 43	77 54	79 59	82 52	74 47	82 51	74 42	76 51	65 41	75 34	76 43	80 48	70 45	61 39	66 28	73 33	73.8 46.9	
OTTUMWA 1WSW	MAX MIN	75 38	82 44	80 57	81 64	79 55	73 55	70 53	74 43	76 43	74 43	69 56	79 63	75 44	62 38	70 41	73 50	80 56	85 55	78 44	81 40	79 54	78 42	70 38	75 34	77 41	80 46	75 42	65 41	65 31	74 31	75.1 46.0	
OTTUMWA AP CAA	MAX MIN	71 42	79 50	76 62	80 65	74 54	61 55	68 54	73 44	76 44	71 50	67 57	69 56	61 44	63 44	68 54	75 59	77 56	81 48	74 47	82 52	71 48	76 41	64 43	71 48	74 50	78 49	69 40	59 33	62 40	70 40	71.7 49.3	
PERRY 2SE	MAX MIN	75 37	80 50	80 60	83 60	86 51	77 52	66 56	75 41	78 42	72 46	73 50	78 56	74 38	67 38	70 41	78 49	72 56	80 41	74 43	85 41	79 48	73 45	66 39	74 48	77 51	78 45	62 37	59 25	67 32	72 32	74.3 45.1	
POCAHONTAS 2SE	MAX MIN	74 38	83 54	79 59	74 61	72 51	64 54	72 59	76 54	78 51	68 56	76 60	72 46	59 37	74 43	72 46	78 49	78 56	76 46	70 46	87 43	72 51	70 48	64 37	75 39	78 50	75 52	62 47	63 35	61 26	72 36	72.5 47.8	
PRINGBAR	MAX MIN	78 38	82 53	83 58	72 51	72 49	69 52	67 51	74 44	77 48	69 53	71 54	72 46	57 32	68 35	73 44	79 48	75 46	73 46	71 38	86 44	74 43	69 42	66 35	76 44	78 52	70 55	67 43	57 31	67 35	70 42	72.1 45.2	
RED OAK	MAX MIN	76 34	82 49	88 66	76 61	78 48	67 56	65 56	73 44	77 41	62 51	74 58	63 53	59 35	68 42	77 39	70 50	80 57	78 45	87 38	76 46	72 44	68 32	74 34	77 47	78 52	71 47	60 39	66 25	74 33	73.1 45.1		
ROCK RAPIDS	MAX MIN	79 36	82 53	82 51	68 56	69 52	64 55	67 48	73 42	74 43	62 56	73 57	67 47	57 35	66 32	72 47	79 50	73 52	73 43	69 40	84 45	71 48	66 42	66 36	76 46	78 52	68 45	60 32	58 26	66 34	70 34	70.4 45.1	
ROCKWELL CITY	MAX MIN	75 40	81 52	79 56	76 61	73 51	66 54	67 54	75 45	78 45	67 58	75 54	59 36	68 38	72 45	78 47	80 54	78 48	72 44	86 42	74 51	71 49	67 35	76 37	78 46	77 52	63 46	60 32	66 28	73 32	72.8 45.9		
SAC CITY	MAX MIN	80 42	85 55	83 59	74 61	75 53	67 55	67 55	74 47	80 48	68 53	76 57	70 51	60 37	71 39	74 47	80 54	78 48	78 47	72 48	88 51	72 48	68 51	67 40	79 40	80 51	75 56	61 48	58 36	70 32	74 41	73.5 48.4	
SANBORN	MAX MIN	76 37	82 51	85 53	66 51	70 48	63 49	66 49	72 43	76 47	66 50	68 51	55 30	65 44	72 42	76 45	73 48	72 44	67 39	83 41	67 41	67 41	67 42	64 45	75 42	77 49	69 53	60 43	56 31	64 33	70 40	69.7 44.1	
SARATOGA 2E	MAX MIN	70 31	81 49	72 54	75 49	67 42	60 49	66 35	69 34	78 54	69 55	65 54	72 41	56 																			

DAILY TEMPERATURES

IOWA
SEPTEMBER 1949

Table 5-Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SIOUX RAPIDS	MAX	78	82	78	73	73	65	69	76	80	60	78	69	60	65	70	80	79	77	69	90	79	75	75	79	79	75	63	69	68	77	73.7
	MIN	34	55	55	55	50	54	44	40	43	50	56	45	35	31	40	46	52	40	44	43	45	45	39	32	40	45	43	32	25	27	43.1
SPENCER 1N	MAX	78	83	78	70	70	62	66	74	77	60	72	68	56	67	75	80	77	74	68	87	70	66	66	78	78	72	60	56	66	71	70.8
	MIN	33	55	60	53	50	49	43	41	42	52	55	43	36	31	47	50	50	40	41	40	44	40	33	33	52	42	39	30	23	31	42.5
STATE CENTER	MAX	73	81	69	75	65	62	66	76	77	70	68	78	59	62	70	77	70	76	68	82	72	73	62	74	81	80	62	60	65	71	70.8
	MIN	40	49	60	62	52	56	55	45	46	48	54	52	41	42	45	50	57	50	47	45	50	49	38	40	48	50	49	39	29	40	47.6
STORM LAKE 2E	MAX	76	81	78	73	74	68	67	75	76	70	76	70	58	67	70	78	76	76	71	85	76	69	65	74	77	74	62	57	64	71	71.8
	MIN	37	57	61	59	49	55	54	45	44	50	56	50	35	35	47	50	56	48	47	45	50	49	36	43	48	56	46	33	29	36	46.9
TINGLEY	MAX	74	80	85	77	78	71	63	73	78	71	73	80	63	59	68	76	76	81	78	85	79	76	68	73	76	80	76	63	66	72	73.8
	MIN	34	48	52	57	48	51	55	42	41	49	53	53	34	39	39	45	53	44	39	44	49	41	32	36	40	43	40	31	27	34	43.2
TIPTON	MAX	79	78	73	81	75	64	64	74	73	76	66	72	68	62	68	70	76	79	67	68	68	74	64	64	74	78	71	58	60	73	70.6
	MIN	37	48	60	62	51	49	52	40	42	48	56	62	46	38	45	48	62	55	46	38	53	45	37	35	44	48	48	42	28	48	47.1
TOLEDO	MAX	75	85	73	78	75	65	70	76	72	74	68	79	64	64	72	78	70	81	71	82	75	75	64	71	78	83	68	61	67	75	73.0
	MIN	38	50	60	61	53	53	41	41	43	49	56	61	42	39	45	48	57	50	46	40	51	47	39	35	45	49	48	39	28	35	46.3
TRIPOLI	MAX	74	84	74	79	73	64	63	75	77	74	67	73	70	65	70	74	75	80	68	77	74	74	65	74	75	80	67	60	64	72	72.0
	MIN	36	59	59	62	52	49	53	41	41	47	56	60	43	35	43	46	57	46	45	36	51	47	37	33	45	52	46	47	25	32	45.0
VINTON	MAX	75	85	75	74	79	72	66	78	79	76	69	80	73	64	69	76	69	79	78	79	74	74	72	72	77	80	64	63	61	74	73.8
	MIN	34	45	59	59	52	50	55	38	39	44	57	61	44	36	44	47	54	48	40	35	50	44	33	33	40	49	44	39	25	30	44.3
WASHINGTON	MAX	73	81	77	81	77	64	69	77	78	75	67	79	72	63	69	72	79	82	74	79	72	77	65	74	75	79	74	61	64	72	73.4
	MIN	38	46	59	64	53	52	54	42	46	48	56	63	46	39	44	49	58	57	46	40	47	41	39	36	43	49	47	43	31	37	47.1
WATERLOO	MAX	75	81	73	77	72	63	66	73	75	77	67	76	60	64	70	75	70	78	68	78	72	72	62	72	74	79	64	57	61	69	70.7
	MIN	36	50	58	62	52	52	54	40	41	47	55	59	43	35	46	49	57	46	47	36	52	45	36	33	43	49	45	37	28	30	45.4
WAUKEE	MAX	73	81	78	77	76	70	66	70	77	74	72	82	75	67	70	78	73	80	73	86	80	75	68	74	78	81	70	61	65	73	74.1
	MIN	42	53	65	64	55	54	58	50	48	50	58	64	42	44	45	52	58	50	53	48	54	49	42	39	50	52	50	40	32	34	48.8
WAUKON	MAX	73	84	73	76	70	61	63	69	79	71	66	70	67	63	71	64	76	79	65	71	67	71	61	73	73	80	64	54	64	71	68.6
	MIN	35	48	55	59	49	45	46	44	43	46	54	61	40	33	47	46	57	51	43	38	48	46	36	37	41	50	45	39	28	36	44.9
WEBSTER CITY	MAX	79	85	79	79	75	64	69	77	82	70	71	74	60	69	74	80	80	81	71	86	78	72	66	78	80	78	64	59	68	72	74.0
	MIN	34	49	60	61	50	54	54	38	40	46	55	55	39	35	45	50	59	41	47	38	51	42	37	32	45	52	46	38	24	29	44.9
WILLIAMSBURG	MAX	70	79	70	79	73	64	63	72	72	72	63	78	71	80	68	72	74	78	69	78	71	73	62	70	74	78	69	60	62	70	70.5
	MIN	40	44	58	62	54	52	55	42	50	48	56	62	44	41	43	50	57	54	48	39	52	45	36	27	42	49	46	39	31	35	47.1
WINTERSET	MAX	72	80	80	76	75	70	65	78	80	64	76	84	65	70	71	79	78	83	79	87	78	79	69	77	79	84	73	63	69	73	75.2
	MIN	41	51	64	62	52	54	59	46	46	53	58	59	37	42	43	49	58	47	42	47	50	49	38	39	46	52	47	35	30	40	47.9
WOODWARD 7N	MAX	74	80	75	77	73	66	65	73	75	69	73	76	82	64	69	77	70	78	76	85	79	71	63	73	77	77	63	57	62	70	71.6
	MIN	39	52	61	62	62	53	51	43	46	50	57	60	39	41	44	50	58	46	46	45	48	47	38	37	49	51	49	38	30	36	47.6

Table 6 for this issue may be found on page 161.

SOIL TEMPERATURES AT AMES, IOWA SEPTEMBER, 1949

Temperature	4 feet above ground	Depth						
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches	72 inches
Average 7 a.m.	51.1	63.8	54.7	61.3	64.3	64.2		
Average 12 noon	67.2	69.6	67.2	62.5	63.8	64.8		
Average 7 p.m.	60.5	65.8	66.7	67.3	64.5	64.3	63.5	62.0
Highest	85	80	75	76	71	70	67	64
Date	20	9	2	2	2+	1	1+	1+
Lowest	29	40	43	53	58	60	61	60
Date	29	29	29	30	29+	30	28+	28+
Number of days with temperature								
0° or lower ..	0	0	0	0	0	0	0	0
24° or lower ..	0	0	0	0	0	0	0	0
32° or lower ..	1	0	0	0	0	0	0	0
40° or higher ..	30	30	30	30	30	30	30	30
50° or higher ..	30	30	30	30	30	30	30	30
60° or higher ..	28	30	30	30	28	30	30	30
70° or higher ..	0	0	0	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°. Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

STATION INDEX

IOWA
SEPTEMBER 1949

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	
							Temp.	Precip.										Temp.	Precip.			
Afton	0064	Union	9	41 02	94 13	1200	6P	6P	Fred E. Iash	2 3 5	Morse 1 mi. NE	5137	Johnson	10	41 45	91 25			Lawrence J. Wall	3 4		
Aiton	0088	Plymouth	1	42 49	96 33	1153	6P	6P	Orland C. Moore	3 5	Morse 4 mi. SW	5742	Johnson	18	41 41	91 28			L. J. Fuhrmeister	3 4		
Albia	0112	Worces	6	41 02	93 48	949	6P	7A	Arthur L. Freed	2 3 5 7	Mount Pleasant	5766	Ringgold	8	40 44	94 14	1214	6P	6P	H. L. Cornelison	2 3 4 5	
Albia	0133	Kossuth	6	43 04	94 14	1200	7P	7P	Harry E. Nollis	2 3 5 7	Mount Pleasant	5796	Henry	21	40 57	91 32	730	6P	6P	A. M. Patterson	2 3 4 5	
Albia	0149	Wayne	9	40 42	93 23	1060	7P	7P	Herma E. Reddy	3 4	Moyville	5823	Woodbury	11	42 28	96 04			Elmer W. Widmark	3 4		
Albia	0157	Butler	9	42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Muscataine No. 1	5837	Muscataine	14	41 26	91 03	880	7P	7P	F. J. Bauerbach	2 3 4 5	
Albia	0173	Buena Vista	20	42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Muscataine No. 2	5842	Muscataine	14	41 25	91 03	546		7A	Clifford McKee	3	
Albia	0181	Sioux	7	42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Muscataine 6 mi. W	5847	Muscataine	14	41 30	91 03			Bureau of Entomology	3 4		
Albia	0205	Story	21	42 00	93 39	1004	7P	7P	Charles W. Brown	2 3 4 5 6 7	New Hampton	5952	Chickasaw	27	43 04	92 19	1156	7P	7P	Loddy Erdlicka	2 3 5	
Albia	0215	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Newton	5982	Jasper	21	41 42	93 04	950	7P	7P	Al A. Schuel	2 3 5	
Albia	0384	Cass	16	41 34	94 59	1110	6P	7A	Roy L. Fancolly	2 3 5	North English	6078	Iowa	4	41 29	92 05	789			Ernest E. Andrews	3 4	
Albia	0389	Cass	16	41 24	95 02	1152	MID	MID	Airways Com. Sta.	2 3 4 5 7	Northwood	6103	North	4	43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5	
Albia	0385	Audubon	16	41 42	94 57	1200	6P	6P	Ralph E. Kibby	2 3 5	Norwich MCE Exp Farm	6119	Page	22	40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5 6 7	
Albia	0385	Des Moines	21	40 46	91 17	522	5A	5A	Glen Wood	3	Oakland 2 mi. E	6151	Pottawattamie	16	41 19	95 23	1150	6P	6P	Ward D. Reineke	2 3 5	
Albia	0463	Kossuth	6	43 19	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Oasis	6186	Johnson	10	41 43	91 24			Ed. Kadors	3 4		
Albia	0483	Fremont	26	40 53	95 44		6P	6P	E. L. Kilpatrick	3	Celvin	6200	Fayette	27	42 40	91 55	1036	6P	6P	Milo M. Frano	2 3 5 7	
Albia	0489	Boone	6	42 03	94 08		6P	6P	Wilfred E. Hunter	3 4	Onawa	6243	Monona	15	42 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5	
Albia	0576	Taylor	28	40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Onawa	6305	Mitchell	4	43 17	92 46	1170	6P	6P	L. J. Lamprecht	2 3 5	
Albia	0600	Beston	10	41 34	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Oncola	6316	Clarke	6	41 03	93 46	1136	6P	6P	Ray A. Kerna	2 3 5 7	
Albia	0608	Jackson	14	42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Oskaloosa	6327	Wahaska	6	41 17	92 40	813	6P	6P	Cliff. Bergstromer	2 3 5 7	
Albia	0745	Taylor	19	40 36	94 29	1081	5P	5P	Glenn A. Cobb	3	Ottumwa 1 mi. NW	6388	Wapello	6	41 01	92 26	649	7P	7P	C. L. Minksh	2 3 4 5	
Albia	0753	Taylor	19	40 47	92 26	825	7P	7P	Mrs. Leo Foster	2 3 5	Ottumwa 2 mi. E	6389	Wapello	6	41 05	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5 7	
Albia	0807	Boone	6	42 04	93 53	1126	6P	6P	E. G. Koll	2 3 5	Ottumwa	6391	Wapello	6	41 00	92 24	620	7P	7P	Winfrey Kinnear	3	
Albia	0809	Boone	6	42 05	93 56	872	7A	7A	Andrew Lindholm	3	Pella	6392	Marion	6	41 24	92 55	875	6P	6P	E. C. Seaning	2 3	
Albia	0923	Hancock	10	42 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Perry 2 mi. SE	6396	Dallas	20	41 51	94 06	975	7P	7P	Eugene W. Hattie	2 3 5	
Albia	1063	Des Moines	14	40 47	91 08	693	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Pocahontas	6719	Pocahontas	6	42 44	94 40	1228	5P	5P	Thomas A. Mc Mahon	2 3 5	
Albia	1233	Carroll	20	42 04	94 52	1289	7P	7A	Ben H. Schenkelberg	2 3 5	Pringhar	6800	O'Brien	11	43 05	95 38	1517	6P	6P	O. A. Ballard	2 3 5	
Albia	1257	Dubuque	12	42 18	91 00	880	7P	7P	C. J. Weiers	2 3 4 5	Red Oak	6940	Montgomery	16	41 01	95 13	1077	6P	MID	Clarence M. Totty	2 3 5	
Albia	1277	Monona	11	42 04	95 49		7P	7P	Bob Zimmerman	2 3 5 7	Red Oak 1 mi. NW	6941	Montgomery	15	41 01	95 14			7A	W. E. M. Corad	3	
Albia	1300	Black Hawk	4	42 33	92 27	875	7P	7P	E. J. Cable	3	Reasen	6975	Plymouth	7	42 49	95 58			Municipal P & L Pl.	3 4		
Albia	1315	Linn	4	41 59	91 39	813	7P	7A	John T. Wurster	2 3 5 7	Ringsted	7058	Emmet	6	43 18	94 30			H. C. Christensen	3 4		
Albia	1324	Linn	4	41 58	91 40		7A	7A	C. W. Simon	2 3 5	Riverston	7085	Fremont	16	40 41	95 35	920	7P	7P	William Stubbs	3 4	
Albia	1354	Appanoose	3	40 43	92 53	1013	7P	7P	Earl McIntire	2 3 4 5	Rock Rapids	7147	Lyon	1	43 26	96 10	1341	7P	7P	George Haveling	2 3 5 7	
Albia	1394	Lucas	5	41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Rockwell City	7161	Calhoun	20	42 24	94 37	1223	7P	7P	F. C. Heitelspacher	2 3 4 5	
Albia	1402	Floyd	4	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Sac City	7312	Sac	20	42 26	94 59	1274	6P	6P	Floyd Weary	2 3 5	
Albia	1442	Cherokee	11	42 45	95 33	1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7	Saint Ansgar 2 mi. NW	7326	Mitchell	4	43 24	92 56			Gonald K. Cowell	3 4		
Albia	1528	Cedar	4	41 53	91 03		7A	7A	Ronald W. Harness	3	Saint Charles	7386	Howard	7	43 11	95 39	1552	7P	7P	Wm. S. S. Dow	2 3 5	
Albia	1523	Page	17	40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Sabborn	7386	Howard	22	42 22	92 23			6P	6P	Don A. Fairchild	2 3 5 7
Albia	1541	Wright	2	42 44	93 44	1170	7P	7P	George Reeder	3 5	Saratoga 2 E	7410	Howard	22	42 22	92 23			Richard J. Galvin	3 4		
Albia	1625	Clinton	14	41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Sheffield	7572	Franklin	4	43 54	93 13						
Albia	1640	Clinton	14	41 50	90 11		7A	7A	David M. Swift	3	Sheldon	7594	O'Brien	7	43 10	95 51	1418	7P	7P	Ross E. Forward	2 3 5	
Albia	1731	Louisia	10	41 17	91 22	595	6P	6P	Alice Best	2 3 5	Shell Rock	7602	Union	4	42 43	92 35			Elmer J. Apfel	3 4		
Albia	1793	Carroll	20	41 51	94 39		6P	6P	Charles W. Smith	2 3 4	Shenandoah	7613	Page	16	40 45	95 23	974	6P	6P	Earl May Seed Co.	2 3 5 7	
Albia	1853	Adams	17	41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 5	Sibley	7684	Osceola	10	43 24	95 45	1494	6P	6P	R. D. Stewart	2 3 5	
Albia	1888	Pottawattamie	15	41 20	95 49		7A	7A	Mrs. H. O. Crane	3 4	Sidney	7669	Fremont	16	40 45	95 38	1050	6P	6P	James B. Shearer	2 3 5	
Albia	1889	Pottawattamie	15	41 19	95 49		7P	7P	Perry C. Crandall	2 3 5 7	Signourney	7678	Keokuk	21	41 20	92 12	780	7P	7A	Sarah A. Sanderson	2 3 5	
Albia	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Sioux Center	7700	Sioux	1	43 05	96 12	1456	6P	6P	Richard J. Kroon	3 4	
Albia	1962	Union	19	41 03	94 22	1300	7P	7A	Gully Spangler	2 3 5	Sioux City 8 mi. W	7703	Plymouth	1	43 26	96 24			Leo Vondrak	3		
Albia	2007	Cass	17	41 18	94 55	1255	6P	6P	Carl E. Pollock	3	Sioux City NB Airport	7708	Woodbury	15	42 32	96 23	1093	MID	MID	U.S. Weather Bureau	2 3 4 5 7	
Albia	2026	Ida	11	42 30	95 39	1350	7P	7P	H. P. Lanher	2 3 5	Sioux City 4 mi. N	7713	Woodbury	15	42 32	96 25			Don A. McKeivoy	3		
Albia	2037	Humboldt	6	42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Sioux Rapids	7726	Buena Vista	11	42 53	95 08	1275	7P	7P	W. A. Simonsen	2 3 5	
Albia	2069	Scott	14	41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5 7	Sioux	7738	Woodbury	15	42 14	96 14	1071	7A	7A	N. P. Juneman	3	
Albia	2110	Winneshiek	24	43 18	91 48	859	5P	5P	Walter Bates	2 3 5 7	Soldier	7774	Monona	15	41 59	95 46			John T. Wade	3 4		
Albia	2112	Winneshiek	24	43 13	91 47	880	7P	7A	Charles Carlson	2 3 5 7	Spencer 1 mi. W	7844	Way	11	43 10	95 12	1331	MID	MID	Radio Station KICD	2 3 4 5 7	
Albia	2136	Delaware	12	42 28	91 53	1083	7P	7P	Clair E. Paris	2 3 5 7	Spillville	7855	Winneshiek	14	43 12	91 57			Louis J. Benda	3 4		
Albia	2171	Crawford	4	42 00	95 22		7P	7P	E. M. Hugg	2 3 5 7	State Center	7925	Winneshiek	10	42 01	93 10	1068	7P	7P	Otha A. Sweet	2 3 5	
Albia	2195	Lucas	5	40 56	93 27		MID	MID	Lloyd A. Kirk	3 4	Storm Lake 3 mi. E	7979	Buena Vista	20	42 38	95 11	1455	6P	6P	Radio Station KATL	2 3 5	
Albia	2203	Polk	6	41 32	93 39																	

REFERENCE NOTES

The four digit identification numbers in the Index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F., precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following Table 6.

When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record.
- + And also on later dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy, monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo., -- 10-28-49 -- 1220

U. S. DEPARTMENT OF COMMERCE

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WEATHER BUREAU

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In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

OCTOBER 1949

Volume LX No. 10



C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

For the fourth consecutive month, rainfall for the State of Iowa has averaged below normal. The October average was 1.93 inches compared to a normal of 2.29 inches. Since July, the deficiency or departure from normal had accumulated to nearly three inches. The United States Geological Survey in its monthly bulletin stated that stream flow was among the lowest 25% of record in the eastern two-thirds of the State, which re-emphasized the accumulated effects of the dry weather. Except for the windstorm of the 10th, the weather during the month has been mild and favorable for out-of-door activities.

After a rather cool September, the temperatures turned very mild early in October. Afternoon readings rose into the 70's or low 80's on many days during the first 20 days of the month, while night-time readings remained in the 40's or 50's. Brief and scattered showers occurred on the 6th-7th and 9th-10th. The most prominent weather feature of the month was the severe state-wide windstorm of the 10th. The strong winds were caused by a deepening low pressure center which moved from New Mexico, across central Nebraska and the eastern Dakotas, into Canada. The wind flow pattern around this low gave strong south to southwesterly winds over the entire State, but the extreme winds were concentrated in the northern part. See complete story below. Rather general rains, especially in the western two-thirds, fell early on the 10th, but amounts were light. Skies were clear to partly cloudy during the day when the excessive winds were recorded. After the storm, the weather remained mild and dry until the 19th. In the three day period - 19th to 21st - most of the month's rainfall occurred. One inch amounts or more were general throughout the central and southwest portions. These rains ushered in a cool spell that lasted only five days. This was practically the only period during the month when temperatures fell to below normal readings. In fact, after the State-wide freeze of September 29, freezing temperatures did not reoccur until the 22nd of October. The first snow of the season was reported at several northern and western points on the 21st, but amounts were not greater than a trace.

The last ten days of the month were rainless and skies were generally clear and sunny. The early freeze this fall and the prolonged dry weather made it possible for Iowa farmers to begin their corn picking much earlier than usual. On October 10th, the yearly tests of corn moisture were conducted by the Weather Division of the Iowa Department of Agriculture. This survey indicated that the corn crop averaged 19.6% in moisture content which made it the driest since 1939. For this survey, farmers from every county in the State volunteered their services in selecting and mailing a total of 346 samples. In general, the driest corn this year came from the central and north central districts where it averaged 17.6% and 18.0% respectively. The test weight of the corn this year averaged 56.9 pounds making it one of the heaviest October test weights on record. This heavier test weight, along with the drier moisture content, was a good indication that the corn was maturing satisfactorily. The Department of Agriculture estimated that 1/5 of the corn was harvested by October 15, and over 2/3 by the end of the month. The mild fall weather was encouraging to fall plowing and over 3/4 of the task was completed during the month.

SEVERE WIND STORM OF OCTOBER 10TH

Winds of gale and hurricane force made October 10th one of the windiest days on record in Iowa. Strong south to southwesterly winds swept the entire State but the extreme winds were concentrated in the northern parts. At the Mason City Airport, a peak gust of 90 miles an hour was registered at 12:13 P.M. Also, from 10:00 A.M. until 2:30 P.M. the velocities were regularly averaging above 60 miles an hour. These winds flattened much of the year's corn crop, blew down trees and large limbs, disrupting telephone and power service, ripped off roofs of buildings and exploded plate glass windows from their frames. The heaviest damage, undoubtedly, was to the corn crop where early estimates indicated that there were 5 to 7.5 bushels per acre of dropped ears on the ground. Individual fields varied considerably from this state-wide average. Many sections experienced difficulties with mechanical pickers making it necessary to either pick the corn by hand or turn the hogs into the field. Typical reports of damage around the state were: at Decorah, high wind dismantled a high television aerial; at Mason City, two radio stations were off the air part of the day due to power failure, many telephone lines were down, unconfirmed reports were that the wind picked up a hay stack and carried it into a maze of telephone wires, several large store windows were blown out; in Des Moines, there were about 400 wire breaks, gusts were registered up to 62 miles an hour, considerable minor damages reported; at Fort Dodge, a plane was damaged, a drive-in theater suffered an estimated \$5,000 damage, 15 grain bins under construction were destroyed or damaged; at Waterloo, nine men were injured when the wind blew down a big sign display at the Dairy Cattle Congress, loss estimated near \$100,000. Throughout most of Iowa the reports were similar to the above. Informed sources stated that claims received by wind insurance companies were among the greatest in their history. Shingles torn from roofs were one of the most frequent claims as a result of the windstorm. Over 10% of the farms in the State suffered significant property losses. Casualty insurance firms operating in Iowa stated that their payments from claims submitted will total about three million dollars. The overall loss, both property and agricultural, cannot be reasonably estimated, but without a doubt it would run into many millions of dollars.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
OCTOBER 1949

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	1:30a. EST	7:30a. EST	1:30p. EST	7:30p. EST	Trace	01-09	10-49	50-99	100-199	200 and over				Total
Hurlington WB AP	SSE	18	11.1	47	SW	10	81	88	59	68	5	3	3	2	0	0	13	66	4.9	284
Charles City WB City			7.5	48	SW	10					3	4	2	2	0	0	11	57	5.2	352
Davenport WB City											7	1	4	0	1	0	13			256
Des Moines WB City	Sa	18a	9.7	54	S	10	75a	83a	55a	60a	0	6	3	1	0	0	10	68	5.4a	276
Dubuque WB City			5.5	26	SE	10					3	3	4	1	0	0	11	65	5.1	304
Sioux City WB AP	SSE	14	10.5	70	W	10	76	84	56	61	5	3	2	2	0	0	12	68	5.5	358

a--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	46.0	76	15	2.64			1903	52.2	90	16	1.95	0.0	5	1933	50.1	84	17	1.36	T	5
1874	51.2	84	25	1.52			1904	53.1	96	16	1.87	T	6	1934	56.6	92	18	1.52	T	4
1875	47.8	77	22	1.36			1905	49.2	95	16	3.40	1.6	8	1935	50.9	89	12	2.76	T	8
1876	47.0	78	18	1.16			1906	50.5	87	7	1.96	0.1	6	1936	50.9	88	10	1.69	T	6
1877	49.6	93	28	4.45			1907	50.4	85	10	1.50	0.0	5	1937	50.3	94	12	2.03	1.5	8
1878	48.9	85	10	2.73			1908	51.1	99	17	3.38	2.6	8	1938	59.4	97	20	0.88	0.2	4
1879	58.3	90	11	2.19			1909	49.7	97	10	2.22	T	6	1939	53.4	95	14	1.48	T	6
1880	47.6	83	13	1.90			1910	55.2	93	10	0.77	0.1	4	1940	57.8	90	22	2.32	0.0	7
1881	52.1	86	26	6.42			1911	48.7	87	14	3.34	0.6	10	1941	54.5	84	15	6.11	0.6	14
1882	54.4	86	23	3.97			1912	52.2	92	16	2.98	T	6	1942	53.1	90	10	1.53	T	5
1883	47.2	88	20	3.37			1913	49.2	89	2	3.03	1.2	9	1943	51.6	87	15	1.66	T	5
1884	54.2	86	17	4.20			1914	55.9	88	14	3.23	T	9	1944	53.8	84	18	1.08	0.0	4
1885	46.7	80	20	2.82			1915	54.4	86	19	1.31	T	5	1945	51.8	89	15	0.33	0.0	3
1886	55.0	88	18	2.51			1916	50.9	92	6	2.00	2.0	8	1946	55.7	89	20	3.39	T	8
1887	46.4	86	3	1.46			1917	42.9	85	0	1.41	2.2	6	1947	61.4	95	26	3.76	0.0	9
1888	47.7	94	22	1.16			1918	55.1	93	21	3.64	0.8	7	1948	51.5	80	16	1.89	T	4
1889	47.5	94	12	0.58			1919	50.7	89	8	3.02	T	10	1949	55.5	92	10	1.93	T	6
1890	49.2	84	15	3.44			1920	57.7	90	11	2.13	T	6							
1891	50.0	92	19	2.77		6	1921	54.6	90	21	1.96	T	6							
1892	54.5	96	14	1.55	0.0	4	1922	56.1	96	14	1.81	T	5	PERIOD	52.0	97	-15	2.34	0.4	
1893	52.4	94	10	1.28	0.0	4	1923	48.5	81	10	1.22	1.7	6							
1894	51.7	90	20	2.67	0.2	8	1924	58.1	89	21	0.87	0.0	4							
1895	46.0	88	4	0.47	T	2	1925	40.2	78	15	2.91	4.9	10							
1896	47.8	88	12	3.13	T	5	1926	51.2	91	14	1.53	T	7							
1897	56.8	97	12	1.14	0.0	4	1927	55.5	91	24	3.25	T	7							
1898	47.5	88	17	3.56	3.6	8	1928	54.2	93	17	3.88	0.1	8							
1899	56.7	95	17	1.73	0.0	5	1929	51.8	84	23	3.10	0.7	9							
1900	59.3	90	21	3.91	0.0	7	1930	50.7	95	9	2.08	0.4	7							
1901	54.2	88	20	1.98	T	6	1931	56.8	92	28	3.01	T	10							
1902	53.5	83	20	2.54	T	5	1932	49.6	80	19	1.79	0.3	7							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
OCTOBER 1949

Table 2

Station	Temperature							Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	54.2	2.7	84	8	15	31	5	1.53	-.39	.63	21	.0				7	2	
Alton	54.9	4.3	82	3	15	31	5	2.06	.51	1.24	10	.0				9	1	1
Cherokee	54.1	2.9	85	8	14	31	5	2.22	.48	1.26	10	.0				6	3	1
Emetsburg	54.4		84	8	16	31	5	.81		.55	10	.0				5	1	
Estherville	53.0	3.6	84	8	16	31	5	1.09	-.76	.31	10	.0				7	2	
Hawarden	52.8	1.5	84	3	15	31	7	1.70	-.20	.50	10	.0				7	4	
Inwood 2 W	51.8	1.7	82	3	12	31	8	1.17	-.40	.50	10	.0				8	2	
Lake Park	53.3 M	4.0	78	8						.40	2	.0						
Le Mars	53.7	2.1	81	3	15	31	5	1.84	.19	.95	10	.0				6	3	
Milford 4 NW	52.4	2.9	83	8	14	31	6	2.00	.30	.54	10	.0				6	4	
Pocahontas 2 SE	54.8	3.5	85	8	16	31	5	.97	-.98	.40	10	.0				5	2	
Pringhar	54.9 M	4.1	82	8						1.17	10	.0						
Rock Rapids	51.7	2.4	80	3	14	31	7	1.46	-.17	.87	10	.0				5	2	
Sanborn	52.0	2.0	81	8	15	31	6	2.10	.50	.90	10	.0				7	3	
Sheldon	51.9	1.5	81	8	12	31	6	1.64	.14	.82	10	T				9	2	
Sibley	51.8	2.8	80	8	12	31	7	1.62	-.03	.86	10	.0				8	1	
Sioux Rapids	53.7	2.8	90	8	18	26+	1	1.21	-.59	.60	19	.0				3	2	
Spencer 1 N	51.4	.5	84	8	10	31	11	1.23	-.47	.43	9	.0				9	2	
Storm Lake 2 E	54.7	3.1	84	8	16	31	5	2.12	.30	1.37	20	.0				8	2	1
DIVISION	53.2	2.6						1.57	-.13			T						
NORTH CENTRAL DIVISION																		
Algona	54.9	3.8	83	8	18	31	5	1.18	-.89	.54	10	.0				6	1	
Allison	55.1	3.6	84	7	19	31	5	1.78	-.47	.75	21	.0				4	2	
Bancroft	55.5	5.7	85	8	15	31	5	1.32	-.68	.55	10	.0				8	2	
Britt	51.7	1.2	79	8	11	31	5	2.62	-.51	.82	10	.0				7	4	
Charles City	54.0	4.1	82	7	20	31	7	1.58	-.65	.68	19	T				8	2	
Clarion	54.5	3.5	84	7	15	31	6	1.53	-.67	.65	19	.0				3	3	
Dakota City	55.1 M	3.4	84	7+	17	31	5	1.73	-.37	.95	10	.0				6	2	
Forest City	53.3	3.1	82	3+	13	31	10	2.40	-.14	.59	19	.0				8	5	
Hampton	55.2	4.3	83	7	19	31	5	1.97	-.23	.78	19	.0				8	3	
Mason City 3 N	53.8	4.4	82	3	18	31	7	1.88	-.22	.91	19	T				4	3	
Mason City AP CAA	52.5	3.1	82	3	16	31	9	2.44	.34	.84	8	T				8	4	
Northwood	53.7	4.5	80	3	16	31	5	1.69	-.69	.52	19	.0				8	4	
Sage	52.5	2.4	80	7	15	31	10	1.54	-.80	.64	21	.0				5	2	
DIVISION	54.0	3.5						1.82	-.36			T						
NORTHEAST DIVISION																		
Cascade	53.9		86	8	21	31	9	1.95		.50	7	.0				7	3	
Decorah	54.7		84	7	15	31	8	.98		.35	10+	.0				6	2	
Decorah 2 S	51.2	3.2	82	7	16	26+	14	.99	-1.52	.46	10	.0				6	2	
Delaware 2 W	53.7	2.2	84	10	16	31	9	1.80	-.87	.56	7	.0				7	3	
Dubuque L & D 11	54.9	2.4	82	8	25	26+	3	1.72	-.71	.58	7	.0				8	2	
Dubuque WB City	56.1	3.6	86	8	26	31	2	1.87	-.56	.59	7	.0				8	3	
Elkader	53.9	3.5	84	7	16	26	12	.85	-1.75	.34	21	.0				3	2	
Fayette	52.9	2.7	82	7	18	31	9	1.58	-.85	.54	10	.0				6	3	
Guttenberg L & D 10	55.6	2.8	85	8	20	31	6	.88	-1.62	.27	21	.0				7	1	
Independence 2 W	53.9	2.2	83	7	18	31	8	1.62	-.82	.56	21	.0				6	4	
New Hampton	50.5	.4	82	7	11	31	13	.75	-1.63	.26	21	.0				6	1	
Oelwein	55.0	3.7	82	7	20	31	7	.81	-1.64	.40	21	.0				4	2	
Saratoga 2 E	52.3		80	7	14	31	8	.77		.31	21	.0				3	1	
Tripoli	55.4		83	7	17	31	5	.96		.43	21	.0				5	1	
Waterloo	54.5	2.4	82	7	19	31	7	1.13	-1.23	.50	7	.0				8	2	
Waukon	54.3	4.3	80	7	19	31	6	1.14	-1.46	.65	21	.0				2	2	
DIVISION	53.9	3.1						1.24	-1.24			.0						
WEST CENTRAL DIVISION																		
Carroll	56.6	4.5	86	7+	18	31	5	1.08	-1.09	.61	10	.0				4	1	
Castana 4 E	54.6		85	8	16	31	5	1.78		.96	10	.0				6	2	
Cushing 3 NE	53.9	2.3	85	8	15	31	5	2.65	.85	1.30	10	.0				8	2	2
Denison 1 S	55.3	2.7	85	8	16	31	6	1.88	-.14	.82	20	.0				6	3	
Guthrie Center	56.5	3.1	85	7+	17	31	5	3.33	.97	.80	7+	.0				7	5	
Harlan	55.9	3.4	84	7+	17	31	5	1.65	-.55	.64	20	.0				6	3	
Ida Grove 4 S	55.7 M	3.7	86	8						1.10	20	.0						
Jefferson	56.3	4.1	85	7	18	31	6	2.31	.06	.60	10	.0				5	4	
Lake City	55.3	2.8	85	7+	15	31	5	1.62	-.48	.85	7	.0				3	2	
Logan	55.7	2.1	86	8	16	31	6	1.82	-.22	.76	10	.0				7	2	
Mapleton 5 NW	54.2	1.5	85	8	15	31	6	1.65	-.20	.90	10	.0				3	2	
Missouri Valley	57.8	4.0	85	8	16	31	5	1.88	-.02	.89	10	T				9	3	1
Onawa	55.4	1.8	86	7	14	31	7	1.45	-.46	1.07	10	.0				4	2	
Rockwell City	55.0	2.7	85	7+	16	31	5	1.64	-.44	.72	19	.0				5	2	
Sac City	56.3	4.6	87	8	17	31	5	.72	-1.25	.27	10	.0				6	1	
Sioux City WB AP	53.8	2.6	83	3	17	31	7	2.22	.62	.85	9	.0				7	3	
DIVISION	55.5	2.8						1.85	-.17			T						
CENTRAL DIVISION																		
Ames 3 SW	55.6	3.0	85	7	19	31	5	2.69	.31	.75	21	.0				7	5	1
Boone	56.6	2.9	85	7	19	21	4	3.06	.64	1.03	20	.0				9	5	
Des Moines WB AP	56.7	3.0	87	7	18	31	5	1.59	-.66	.77	19	.0				9	2	
Des Moines WB City	57.1	2.8	87	7	21	31	4	1.70	-.55	.58	19	.0				10	3	
Pcrt Dodge	55.2	3.5	85	7	17	31	5	1.77	-.45	.79	10	.0				7	2	

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
OCTOBER 1949

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Grinnell	54.8	1.2	84	7	16	31		8	2.21	-.25	.58	19	.0			8	4	
Grundy Center 4 NE	55.1	3.0	80	8	18	31		8	1.29	-1.29	.43	21	.0		6	3		
Iowa Falls 1 N	54.8	3.2	84	7	16	31		8	1.91	-.37	.71	19	.0		6	2		
Marshalltown	55.4		85	7	20	31		8	2.14		.90	19	.0		6	4		
Newton	57.1	3.3	85	7	20	31		5	2.04	-.36	.79	7	.0		7	3		
Perry 2 SE	56.0	3.2	86	7	18	31		5	2.80	.60	.98	7	.0		6	5		
State Center	55.7	2.7	87	8	19	31		4	3.91	1.51	.89	4	.0		7	6		
Toledo	56.8	3.7	86	7	21	31		4	3.49	1.04	1.61	7	.0		8	4	1	
Wauke	57.7	4.5	87	7	18	31		5	2.30	.05	.61	20	.0		8	4		
Webster City	55.6	4.1	86	8	16	31		7	1.52	-.67	.51	10	.0		6	3		
Woodward 7 N	56.9	4.1	85	7	18	31		4	2.25	-.05	.86	7	.0		6	5		
DIVISION	56.1	3.2							2.29	-.07			.0					
EAST CENTRAL DIVISION																		
Anamosa 1 NW	54.0	1.9	83	7+	20	26+		9	2.76	.09	.75	7	.0		7	5		
Belle Plaine	56.1	3.6	85	7	21	31		7	3.47	1.00	1.05	20	T		10	4	1	
Bellevue L & D 12	54.7	3.5	85	8	23	26		6	2.18	-.42	.55	21	.0		11	3		
Cedar Rapids No. 1	56.1	3.3	84	7	23	31		5	1.95	-.32	.40	20	.0		9	3		
Clinton No. 1	57.7	4.1	90	8	25	26+	1	5	2.91	-.28	.94	6	.0		8	3		
Davenport WB City	58.2	3.5	86	8	25	31		3	2.28	-.08	1.34	6	.0		6	2	1	
Iowa City	56.3	3.2	85	7	23	31		5	1.94	-.66	1.07	21	.0		10	1	1	
Iowa City AP CAA	55.0	1.9	86	7+	20	26		6	1.51	-1.09	.65	21	.0		6	2		
Le Claire L & D 14	58.0		85	8	24	31		2	2.09	-.41	1.10	6	.0		6	2	1	
Maquoketa 5 E	55.8	3.8	85	8	22	26+		6	1.75	-.95	.69	21	.0		7	2		
Monmouth 4 SW	53.7	1.5	83	7	18	31		7	.96	-1.69	.45	6	.0		7	1		
Muscatine No. 1	57.7	3.9	87	8	23	31		3	1.19	-1.41	.60	6	.0		7	1		
Tipton	55.9	2.8	86	7+	19	31		5	2.13	-.47	.64	21	.0		8	4		
Vinton	56.0 M	3.4	85	7	21	31		4	3.35	.95	1.90	7	.0		6	4	1	
Williamsburg	56.1	2.8	85	7	22	31		5	3.54	1.09	2.10	21	.0		7	4	1	
DIVISION	56.1	3.3							2.27	-.27			T					
SOUTHWEST DIVISION																		
Atlantic 1 E	56.6	3.5	87	7	15	31		6	3.00	.58	.96	7	.0		10	4		
Atlantic AP CAA	53.4	.3	87	8	16	31		9	2.62	.20	1.10	6	.0		9	3	1	
Bedford 1 N	57.1	2.3	88	7+	16	31		6					.0					
Clarinda	56.4	1.9	88	7	18	31		6	2.27	-.45	1.13	21	.0		6	2	1	
Corning 1 W	55.8	2.0	88	7	15	31		5	2.09	-.61	1.04	20	.0		4	2	1	
Council Bluffs 3 NE	56.8		86	8	15	31		5	2.96		1.36	7	.0		8	3	1	
Glenwood 2 E	56.8	2.3	90	8	15	31	1	5	3.44	1.28	1.70	20	.0		6	5	1	
Greenfield	57.2 M	3.5	86	7							.75	8	.0					
Norwich 2 E SCS Farm	56.1	1.6	88	8	15	31		6	2.92	.27	1.55	20	.0		7	2	1	
Oakland 2 E	56.1	2.1	89	3	12	31		6	3.11	1.01	1.32	20	.0		10	3	2	
Red Oak	56.5	2.0	88	7+	15	31		6	1.83	-.72	.61	21	.0		8	2		
Shenandoah	58.1	2.8	91	3	18	31	1	5	2.57	-.03	1.11	20	.0		5	3	2	
Sidney	58.7		90	8	19	31	1	4	1.26		.45	20	.0		5	3		
DIVISION	56.6	2.4							2.55	.09			T					
SOUTH CENTRAL DIVISION																		
Afton	54.2	0.0	83	7	12	31		8	2.67		.87	9	T		6	4		
Albia	57.9	3.6	87	7	20	31		3	1.55	-.74	.41	20	.0		5	2		
Centerville	57.4	2.2	86	7	18	31		3	3.13	-.53	.83	20+	.0		5	3		
Creston	54.7	1.8	87	7	15	31		7	3.32	.87	1.56	21	T		6	3	1	
Indianola	58.7	4.1	90	7	18	31	1	4	1.50	-.90	.30	21	.0		7	3		
Exoxtville 2 W	58.9	4.2	92	8	19	31	1	4	2.68	.28	1.72	21	.0		5	2	1	
Lamoni	56.8	2.5	87	7	16	31		5	3.42	.62	2.07	20	.0		3	4	1	
Willerton	57.6	3.1	87	7	18	31		5	2.23	-.33	.80	19	.0		5	4		
Mount Ayr 2 N	56.9	2.2	87	7	16	31		4					.0					
Osceola	57.3	2.7	88	7	18	31		5	2.30	-.15	.95	21	.0		5	4		
Tingley	55.1	.7	86	7+	17	31		8	1.65	-1.00	.62	10	.0		5	3		
Winterset	58.3	3.7	90	7	18	31	1	4	1.89	-.50	.78	21	.0		7	3		
DIVISION	57.0	2.6							2.31	-.23			T					
SOUTHWEST DIVISION																		
Bloomfield 2 W	56.5 M	1.3	84	8	15	31		5	1.21	-1.30	.38	21	.0		4	3		
Burlington WB AP	57.2	2.4	87	8	21	31		5	1.89	-.88	.52	21	.0		8	3		
Columbus Junction	57.3	3.0	87	7+	21	31		3	1.05	-1.55	.41	6	.0		5	2		
Fairfield	56.6	3.2	88	8	20	30+		6	1.33	-1.17	.56	5	.0		5	2		
Keokuk L & D 19	58.4	2.0	85	8	25	31		1	2.10	-.32	.82	6	.0		6	3		
Keosauqua State Park	58.8	3.4	88	8	22	31		2	2.17	-.53	.66	21	.0		5	1		
Mount Pleasant	58.0	3.4	88	8	21	31		4	1.20	-1.23	.41	21	.0		5	3		
Oskaloosa	57.9	3.8	86	7	20	31		5	2.22	-.18	.76	21	.0		7	3		
Ottumwa 1 WSW	57.6	2.2	89	7	21	31		6	1.38	-1.25	.48	21	.0		5	2		
Ottumwa AP CAA	56.9	1.5	86	7	22	31		4	1.56	-1.07	.62	20	.0		7	2		
Sigourney	58.2	4.0	87	8	21	31		3	1.36	-1.08	.39	19	.0		5	3		
Washington	57.5	3.4	86	7+	21	31		3	1.49	-1.02	.50	20	.0		5	3		
DIVISION	57.6	3.0							1.58	-.96			.0					
STATE	55.5	3.0							1.93	-.36			T					

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
OCTOBER 1949

Table 3-Continued

Station	Day of month																															Total						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
Le Claire			T	T	T	.97	.14														.32	.15	.10										T	T	1.76			
Le Claire Lock & Dam			T			1.10	.10														.32	.24	.15											T		2.09		
Le Mars	T	.10				.30	.14													T	.30	.05														1.84		
Lenox	R			.21					.60	.78										.06	1.10	.04														2.79		
Logan		.14	.06	.04		T													T	.13	.62	.07														1.82		
Mapleton 5 NW									.15	.90											.60															1.65		
Mapleton 2 SW	T	.05				T				1.07										.10	.46	.08														1.76		
Mapletope 3 E			T	.19		.61	T			.06										.04	.09	.69	.07			T									1.75			
Marion 4 NE	R			.04		.11	.38			.11										.22	.37	.28														1.51		
Marshalltown	Z		.04	.40						.12										.90	.30	.38														2.14		
Mason City 3 N					T	T	.33													.91	.02	.62														1.88		
Mason City AP CAA					T	.01	.84	.02	.39										.11	.55	.02	.50														2.44		
Merrill 5 W		.03	.09				.24		.94											.07		.60														1.97		
Millford 4 NW		.08	.30			.15	.47		.54												.46															2.00		
Millerton						.26				.17									.10	.80	.35	.55														2.23		
Missouri Valley	Z	.10	.08	.07		T		.02	.89	.02				T						.31	.36	.03														1.88		
Monmouth 4 SW				.08		.45	.08		.08											.08	.13		.06														.96	
Monona	R					.15	.20		.17													.35															.87	
Montezuma				.18	T	.06			.01	.25										.95	.62	1.45	.20				T									3.72		
Moravia	R		.02	.01		.22			.04											.12	.50	.69														1.60		
Morse 1 NE	R			.02		.21														.13	.37	.73														1.46		
Morse 4 SSW	R			.08		.20														.16	.55	.48														1.47		
Mount Pleasant	Z					.30				.07										.11	.31	.41														1.20		
Myrville	R		.12					1.01	.39											.10	.79															2.41		
Muscataine No. 1	Z			T		.60			.09											.07	.10	.24	.04				T							.05		1.19		
Muscataine No. 2						.63	.01														.16	.17	.12												.02		1.23	
Muscataine 6 N	R				.01	.54			.10											.20	.05	.25														1.15		
New Hampton			.01			.03	.14		.16											.15		.26															.75	
Newton			.03	.11		.79		T	.11											.47		.37	.16													2.04		
North English	R			.06		.23			.10										.30	.43	.70	.46														2.28		
Northwood						.01		.01	.10	.29										.52	.26	.49	.01														1.69	
Norwich SCS Farm 2 E	Z			.17			.22	.05	.06	.37	.02								.04	.03	1.55	.70														2.92		
Oakland 2 E		.05				1.02	.05	.06	.37	.02									.01	.15	1.32	.08														3.11		
Oasis	R				.03	.27			.03											.11	.68	.55														1.67		
Oelwein						.05	.25													.11		.40															.81	
Ogawa	T	.07				T			1.07											.05		.26															1.45	
Ogawa						T		.03	.16											.55	.16	.64															1.54	
Oswego				.05		T			.47											T	.44	.35	.95														2.30	
Oskaloosa			T			.10			.01	.17										.66	.24	.76	.28														2.22	
Ottumwa 1 WSW	Z				T	.20			.16											.44	.10	.48					T									1.38		
Ottumwa AP CAA				T	.03	.19			T	.15	T									.13	.17	.62	.27														1.56	
Ottumwa					.01	.19															.33	.21	.40	.08													1.21	
Pella														.10						.10	.06	1.14	.17													1.58		
Perry 2 SE			T			.98			.56	T										.02	.27	.45	.52														2.80	
Pocahontas 2 SE		.08				.18			.40												.30	.03															.97	
Pringhar		.18	.28			.19			1.17												.36																-	
Red Oak				.21			.18	.03	.19											.04	.18	.39	.61														1.83	
Remson	R					.12	.14		1.00	.30											.68																2.33	
Ridgeton	R					.10	.02																															-
Riverton				.17					T	.35											.13	.62	.11														1.47	
Rock Rapids		.02	T	T		.33	T	T	T	.87										T	T	.21	.03														1.46	
Rockwell City	Z		.05			.62			.72												.08	.17															1.64	
Sas City		.07	.07	T	T				T	.27												.15	.07														.72	
Saint Asgar 2 S	R																																				-	
Saint Charles	R			.07				.19	.04	.32										.05	.18	.96	.03														1.84	
Saraborn		.15	.20			.30	.05			.90												.38	.12														2.10	
Saratoga 2 E						.23				.23											.23	.31															.77	
Sheffield	R			.13	.05	.03	.01		.40											.39	.41	.79															2.21	
Sheldon		.07	.09	.03		.32	.05	T	.01	.82	T										T	.19	.06														1.64	
Shell Rock	R					.20			.08											.05	.30	.70															1.33	
Shenandoah				.10						.30											T	.06	1.11	1.00													2.57	
Sibley		.05	.04		.02	.21	.06		.86												T	.16	.22														1.62	
Sidney			T	.12	T				.38											.06	.25	.45	T														1.26	
Sigourney						.31				.14											.39	.34	.18															

HOURLY PRECIPITATION

IOWA

OCTOBER 1949

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-1st-																									
BEAVER	-	-	-	.04	.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.09
CHEROKEE	-	-	-	.04	.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05
IDA GROVE 4S	-	-	-	.01	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.07
LARRABEE	-	-	.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.10
MISSOURI VALLEY	-	-	-	.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05
ST ANSGAR 2S	-	-	-	.04	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
SIOUX CENTER	-	-	-	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
SIOUX CITY WB APT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05
SOLDIER	-	-	-	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
SPENCER 1N	6	*	*	*	*	*	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-2d-																									
AMES 3SW	-	-	-	-	-	-	-	-	-	.04	-	-	-	-	-	.22	.02	-	-	-	-	-	-	-	.02
ATLANTIC AP CAA	//	-	-	-	-	-	-	-	-	.04	-	-	-	-	-	.22	.02	-	-	-	-	-	-	-	.26
BELLEVUE L/D 12	//	-	-	-	-	-	-	-	-	.04	-	-	-	-	-	.22	.02	-	-	-	-	-	.01	.01	.01
BURLINGTON WB APT	//	-	-	-	-	-	-	-	-	.04	.04	.02	-	-	-	-	-	-	-	-	-	.11	.01	.01	.11
CHEROKEE	-	-	-	-	-	-	.06	.09	.04	.04	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	.25
COUNCIL BLUFFS 6 NE	-	-	-	-	-	-	.07	.03	.04	.04	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	.10
DAKOTA CITY	-	-	-	-	-	-	-	-	.08	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.14
DES MOINES WB CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.04	-	-	-	-	-	-	.04
GRINNELL	-	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
HAMBURG	-	-	-	-	-	-	-	-	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.08
HARTLEY 3S	-	-	-	-	.03	.01	.05	.07	.09	.08	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	.30
HINTON 5WNW	-	-	-	.03	.01	-	.05	.07	.09	.08	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	.08
HORNICK	-	-	-	-	-	-	.11	.01	.03	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.16
IDA GROVE 4S	-	-	-	-	-	-	.01	.08	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.09
IOWA CITY AP CAA	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
IOWA C RALSTON CRK1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.01	.02
IOWA C RALSTON CRK2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.01	.03
IOWA C RALSTON CRK3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.01	.03
IOWA C RALSTON CRK4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.01	.03
IOWA C RALSTON CRK5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.01	.03
KNOXVILLE 2W	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
LARRABEE	-	-	-	.05	.08	.04	.03	.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.30
MARSHALLTOWN NO 2	-	-	-	-	-	-	.09	.01	-	-	-	-	-	-	-	-	-	.04	.01	-	-	-	-	-	.05
MISSOURI VALLEY	-	-	-	-	-	-	.09	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.10
MORSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	-	-	.02
MORSE 4SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*
MOUNT PLEASANT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.06	-	.06
MOVILLE	-	-	.02	.08	.01	.01	.07	.03	.07	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.12
REMSEN	-	-	-	.07	.03	.07	.02	.05	.02	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.19
RINGSTED	-	-	-	.02	.05	.02	.02	.05	.02	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.09
ROCKWELL CITY	-	-	-	.02	.03	.02	.02	.02	.02	.02	.03	-	-	-	-	-	-	-	-	-	-	-	-	-	.05
SIOUX CITY WB APT	-	.03	.03	.02	.02	.02	.02	.02	.02	.01	.01	-	-	-	-	-	.01	.03	-	-	-	-	-	-	.15
SOLDIER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	-	-	.06
SPENCER 1N	6	-	-	-	-	-	-	-	-	-	-	-	-	-	.20	-	-	-	-	-	-	-	-	-	-
TRAEER	-	-	-	-	-	-	-	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	.02	-	-	.04
WOODBINE 5SE	-	-	-	.02	.01	-	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
-3d-																									
BELLEVUE L/D 12	.01	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
CASCADE	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
DAKOTA CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03	.09	.12
GREENFIELD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*
IOWA CITY AP CAA	6	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*
MARSHALLTOWN NO 2	-	-	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
MORSE	-	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
MORSE 1NE	-	*	*	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.08
MORSE 4SSW	*	*	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.08
SHEFFIELD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.13	.13
SPENCER 1N	6	-	-	-	-	-	.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-4th-																									
AMES 3SW	-	-	.04	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.10
BEAVER	-	-	-	-	-	-	.03	.03	.02	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	.10
BELLEVUE L/D 12	-	-	-	-	-	.03	.03	.02	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.16
CASCADE	.03	-	-	-	-	.02	.04	.08	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
CHARLES CITY	.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
DES MOINES WB APT	-	-	-	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
DES MOINES WB CITY	-	-	-	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.18
DUBUQUE WB CITY	-	-	-	.06	.06	.03	.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.12
HAMBURG	-	-	.08	.04	-	-	-	-	-	-	-	-	-	-	.02	-	-	-	-	-	-	-	-	-	-
IOWA CITY AP CAA	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05
IOWA C RALSTON CRK1	-	-	-	-	-	.05	.03	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.04
IOWA C RALSTON CRK2	-	-	-	-	-	.01	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03
IOWA C RALSTON CRK3	-	-	-	-	-	.01	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.04
IOWA C RALSTON CRK4	-	-	-	-	-	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.06
IOWA C RALSTON CRK5	-	-	-	-	-	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02
KNOXVILLE 2W	-	-	.13	.08	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.21
LENOX	-	-	.13	.08	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.04
MARION 4NE	-	-	-	-	-	.03	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.40
MARSHALLTOWN NO 2	*	*	*	-	-	-	-	-	-	-	.40	-	-	-	-	-	-	-	-	-	-	-	-	-	.40
MISSOURI VALLEY	.03	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.04
NORTH ENGLISH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.06	-	-	-	-	-	-	-	-	-	.08
NORWICH 2E SCS FARM	-	-	.09	.08	-	-	-	-																	

HOURLY PRECIPITATION

IOWA
OCTOBER 1948

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
DERBY																			.01						.01
DES MOINES WB APT																				.01		.01			.02
DES MOINES WB CITY																				.01		.06			.07
DEXTER																								*	.01
FOREST CITY																					.03	.12	.01		.16
GREENFIELD																									.01
HAMBURG																					.01	.12	.36	.20	.74
HARTLEY 3S																					.04	.01	.05	.12	.32
HINTON 5WNW																					.08	.01	.09	.56	1.06
HORNICK																					.07	.01	.08	.17	.43
IDA GROVE 4S																					.01	.04			.05
KEOKUK WBO																					.04	.01			.05
LAMONI																					.11	.22	.14	.29	.76
LARRABEE																					.01	.59			.60
LENOX																					*	*	*	*	.01
MASON CITY AP CAA	6	.82																			.19	.15	.35		.89
MISSOURI VALLEY																					.08	.01		.01	.10
MOUNT AYR 2N																					.10	.03	.42	.44	1.01
MOVILLE																					.02	.01	.01		.04
NORWICH 2E SCS FARM																					.10	.02	.43	.40	1.00
REMSEN																							.12	.19	.31
ROCKWELL CITY																							.04		.04
SAINT CHARLES																					.03	.02	.03	.25	.51
SIOUX CITY WB APT																					.01	.04	.04	.54	.89
SOLDIER																					*	*	*	*	.01
SPENCER 1N	6																				.15	.03			.18
TABOR 6NW																							.01	.11	.12
WALLIN 2WNW																								.07	.07
WEBSTER CITY																						.50	.08	.14	.73
WOODBINE 5SE																								.01	.01
-10th-																									
ALLERTON		*	*	*	*	*	*	*	*	*	*	*												.20	.20
AMES 3SW				.01	.01	.02	.13	.16																	.33
ATLANTIC AP CAA	//				.10	.08																			.18
BEAVER		*	*	*	*	*	*	*	*	*	*	*												.60	.60
BELLEVUE L/D 12	//																							.17	.17
BURLINGTON WB APT	//																				.03	.01			.04
CASCADE								.19	.02												.08	.02			.10
CENTERVILLE																									.21
CHARLES CITY							.01	.03	.13	.01															.18
CHEBROKKE		.12	.02	.02	.04	.03	.01	.03	.13	.01															.23
COON RAPIDS				.01	.02	.14	.37	.08																	.41
COUNCIL BLUFFS 6 NE			.08	.12																					.30
DAKOTA CITY		.08	.01				.01	.25	.07																.42
DAVENPORT WB CITY																							.17		.17
DERBY							.02	.17	.02																.21
DES MOINES WB APT							.02	.14	.04																.20
DES MOINES WB CITY							.03	.12	.01	.01															.17
DEXTER							.16	.36	.10																.62
DUBUQUE WB CITY																					.18	.01			.19
FOREST CITY		*	*	*	*	*	*	*	.81																.81
GREENFIELD		.01	.01			.13	.37	.05																	.57
GRINNELL						.01	.03	.13	.07																.24
HAMBURG		.01	.01	.07	.13																				.22
HARTLEY 3S		.17	.02	.02	.01	.03	.02																		.27
HINTON 5WNW		.02	.01	.12		.30																			.45
HORNICK		.09	.03	.09	.01	.05																			.27
IDA GROVE 4S		.01	.01	.01	.07	.03																			.13
IOWA C RALSTON CRK1													.01	.02											.03
IOWA C RALSTON CRK2													.01	.02											.03
IOWA C RALSTON CRK3													.02	.01											.04
IOWA C RALSTON CRK4													.03	.01											.09
IOWA C RALSTON CRK5													.06	.03											.33
IOWA FALLS 1N													.33	.08											.08
KEOKUK WBO									.14																.14
KNOXVILLE 2W																									.25
LAMONI		.14	.03	.02	.01	.01	.20	.01																	.23
LARRABEE			.01	.01	.04	.01																			.78
LENOX		.01	.01	.03	.15	.47	.11																		.11
MARION 4NE													.06	.05											.13
MARSHALLTOWN NO 2							.01	.05	.07																.20
MASON CITY AP CAA	6	.03	*	*	*	*	.01	*	*	*	*	*											.37		.17
MISSOURI VALLEY				.08	.12								.10	.07											.04
MONONA														.04											.39
MORSE					.01	.07	.21	.03	.07																.09
MOUNT AYR 2N																									.39
MOUNT PLEASANT																									.09
MOVILLE		.12	.03	.09	.06	.05	.04																		.09
MUSCATINE NO 1														.04	.05										.10
MUSCATINE 6N														.09	.01										.10
NORTE ENGLISH														.10											.17
NORWICH 2E SCS FARM		.13	.04																						.03
OASIS													.01	.02											.17
OTTUMWA 1WSW										.17															.17
OTTUMWA AP CAA	6									*	*	*											.15		.30
REMSEN		.18	.02	.05	.04	.01																			.38
ROCKWELL CITY		.01	.02	.01		.01	.26	.04	.03																.32
SAINT CHARLES							.10	.20	.02																.40
SHEFFIELD								.10	.30																.08
SHELL ROCK									.07				.01												.60
SIOUX CITY WB APT		.01	.09	.04	.45	.01																			.17
SOLDIER																									

HOURLY PRECIPITATION

IOWA

OCTOBER 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
-17th-																										
WALLIN 2WNW																									.03	
-18th-																										
ALLELTON					.06	.05																			.11	
AMES 3SW																				.01	.02					.03
ATLANTIC AP CAA	//																								.05	
COUNCIL BLUFFS 6 NE													.03	.01	.01	.01	.04	.01							.06	
DERBY																									.11	
DES MOINES WB APT																									.05	
DES MOINES WB CITY																									.08	
DEXTER																									.09	
FOREST CITY																									.02	
GREENFIELD																									.06	
GRINWELL																									.28	
HAMBURG													.05												.07	
IOWA CITY AP CAA	6																								.01	
IOWA C RALSTON CRK1																									.03	
IOWA C RALSTON CRK4																									.03	
IOWA C RALSTON CRK5																									.18	
IOWA FALLS 1N																									.11	
KNOXVILLE 2W																									.05	
LAMONI																									.55	
MARSHALLTOWN NO 2																									.02	
MASON CITY AP CAA	6																								.30	
NORTE ENGLISH																									.04	
NORWICH 2E SCS FARM													.02	.02											.03	
OTTUMWA 1WSW																									.03	
OTTUMWA AP CAA	6																								.05	
SAINTE CHARLES																									.39	
SHEFFIELD																									.05	
SHELL ROCK																									.10	
TABOR 6NW													.01	.04	.01	.02	.02								.15	
TRAE																									.17	
WALLIN 2WNW				.17																					.02	
WASHINGTON																									.02	
-19th-																										
ALLELTON		.59	.03	.12		.42	.13																		1.55	
AMES 3SW																									.55	
ATLANTIC AP CAA	//			.04	.01																				.05	
BELLEVUE L/D 12	//													.03	.02										.05	
BURLINGTON WB APT	//												.03	.01											.11	
CASCADE				.03									.07	.01											.05	
CENTERVILLE						.01	.03	.01																	.68	
CHARLES CITY		.11	.08	.03	.03	.13	.04	.03	.10	.05	.08														.05	
CHEROKEE				.05																					.31	
COON RAPIDS		.01	.04																						.14	
COUNCIL BLUFFS 6 NE			.09	.05																					.12	
DAKOTA CITY				.07	.01																				.05	
DAVENPORT WB CITY																									.69	
DERBY		.03		.02	.28	.22	.10	.02	.02																.77	
DES MOINES WB APT						.20	.56	.01																	.58	
DES MOINES WB CITY						.56	.02																		.10	
DEXTER						.10																			.03	
DUBUQUE WB CITY																									.03	
FOREST CITY		.01		.05	.16	.06	.25	.01	.07	.10	.25														.96	
GREENFIELD					.03	.02																			.05	
GRINWELL		.18	.16	.02				.06	.12	.01															.55	
HAMBURG			.01	.10	.01																				.12	
HINTON 5WNW							.01	.05																	.06	
HORNICK		.08	.11																						.19	
IDA GROVE 4S			.30	.08	.01																				.39	
IOWA CITY AP CAA	6	.03	*	*	*	*	*	.06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.16	
IOWA C RALSTON CRK1		.07							.02	.05	.02														.14	
IOWA C RALSTON CRK2		.07							.05	.02	.02														.10	
IOWA C RALSTON CRK3		.01	.02					.02	.01	.01	.03														.14	
IOWA C RALSTON CRK4		.06							.01	.01	.05	.03													.16	
IOWA C RALSTON CRK5		.07	.01					.01	.01	.05	.01														.66	
IOWA FALLS 1N		.01	.01		.17			.27	.05	.15															.10	
KEOKUK WBO								.02	.07		.01														.10	
KNOXVILLE 2W		.02		.01	.01	.02	.13	.31	.06	.01													.01		.58	
LAMONI			.17	.04	.05	.03	.18	.01																	.48	
LARRABEE				.05																					.05	
LENOX		.01	.02																						.03	
MARION 4NE		.05		.04	.01			.03	.02	.04	.01														.22	
MARSHALLTOWN NO 2		.11	.01	.13	.01			.01	.08																.35	
MASON CITY AP CAA	6	.11	*	*	*	*	*	.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.30	
MISSOURI VALLEY		.08	.07	.14	.01																				.12	
MORSE		.04	.02							.04	.01	.01													.13	
MORSE 1NE		.03	.04							.02	.02		.01	.01											.16	
MORSE 4SSW		.08	.01							.01	.05	.01													.47	
MOUNT Ayr 2N				.01	.40	.06																			.11	
MOUNT PLEASANT										.09	.02														.10	
MOVILLE		.01	.08	.01																					.07	
MUSCATINE NO 1																									.20	
MUSCATINE 6N																									.43	
NORTE ENGLISH		.05	.05							.09	.05												.19		.03	
NORWICH 2E SCS FARM		.03																							.11	
OASIS		.05	.04								.01	.01													.38	
OTTUMWA 1WSW		.10						.18	.10																.18	
OTTUMWA AP CAA	6	.13	*	*	*	*	*	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.41	
SAINTE CHARLES							.18																		.30	
SHEFFIELD		.03		.14	.01	.05	.01			.16	.08														.08	
SHELL ROCK		.10	.04	.04																					.76	
SIoux CENTER																									.05	
SIoux CITY WB APT		.01		.03	.02	.02																				

HOURLY PRECIPITATION

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Table 4-Continued

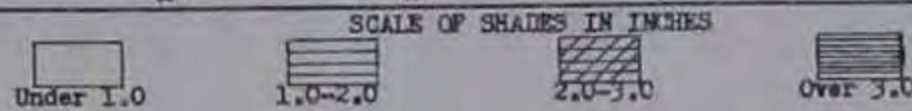
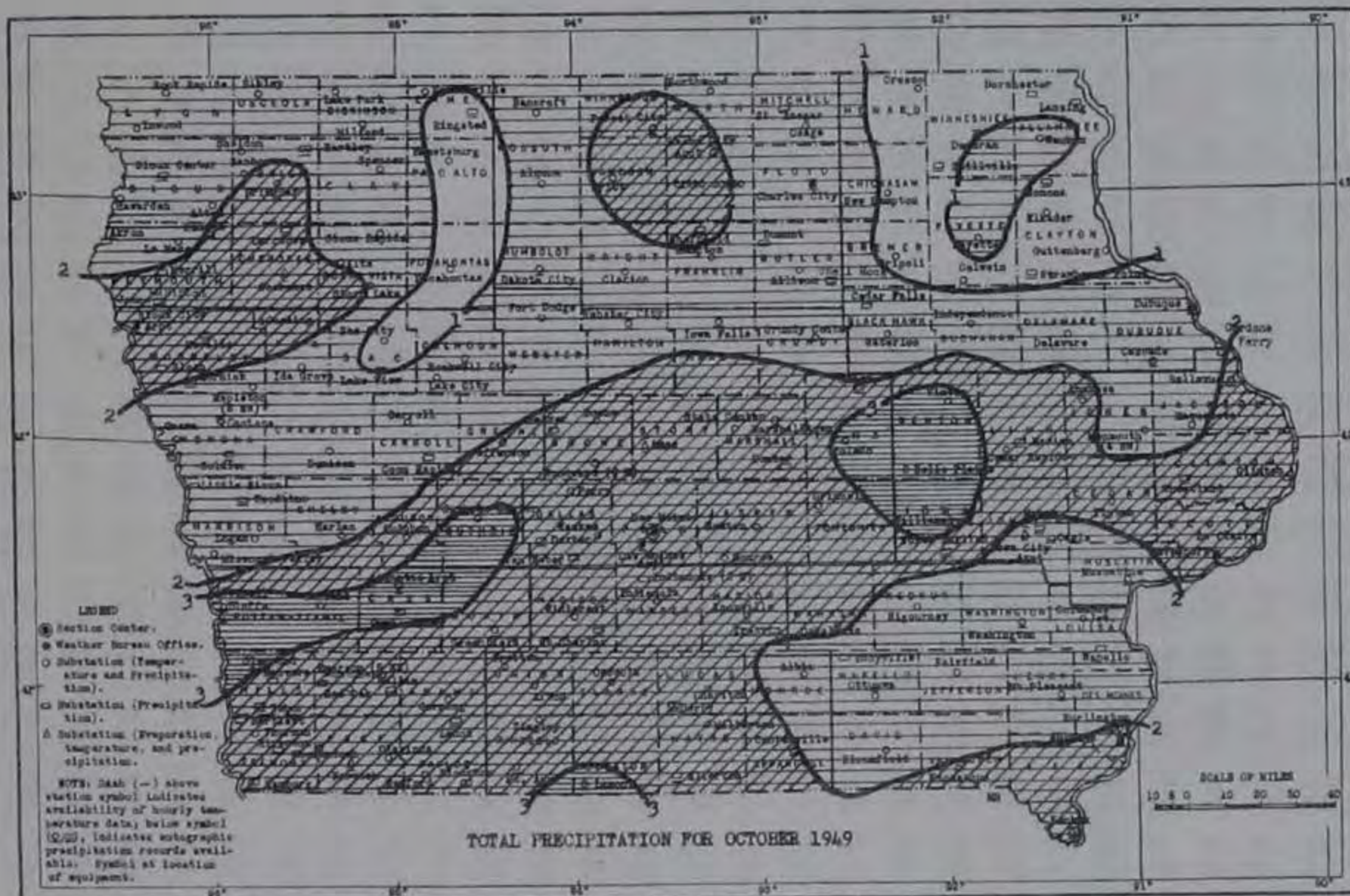
Station	A. M. Hour ending												P. M. Hour ending												Total			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
AMES 3SW		.17		.01	.01	.05									.05	.05	.06		.15	.05	.04	.17	.12	.02	.10	.09	.20	.78
ATLANTIC AP CAA	//	.01	.04	.01								.05	.01															.06
BELLEVUE L/D 12					.07	.15	.16																				.01	.39
BURLINGTON WB APT	//					.08	.09																				.01	.18
CASCADE																						.04		.03	.05		.08	.01
CENTERVILLE		.03	.70	.06	.01	.01			.01																		.01	.01
CHARLES CITY										.01		.07	.02				.01	.31	.01				.01		.02	.01	.17	.47
CHEROKEE		.02	.01	.02													.04	.01	.01	.03	.01		.03	.11	.11		.40	
COON RAPIDS		.02	.01	.02												.54	.12	.01	.03	.03	.01	.02		.01	.01	.01	.94	
COUNCIL BLUFFS 6 NE			.07	.08																						.12	.12	
DAKOTA CITY						.01			.05																	.13	.05	.23
DAVENPORT WB CITY		.17																.01	.07	.02	.02	.13	.13	.05	.05	.68		
DERBY			.10	.09	.01	.02												.05	.09	.03	.14	.02		.03	.05	.44		
DES MOINES WB APT						.01	.02											.03	.09	.03	.17	.05		.03	.04	.45		
DES MOINES WB CITY			.01												.01	.01	.01	.02	.03		.08	.11	.01	.17	.03	.80		
DEXTER				.17	.15																					.08	.08	
DUBUQUE WB CITY							.07	.01										.02	.04			.12	.03	.01	.25	.52		
GREENFIELD				.02																			.01	.02	.10	.14	.47	
GRINNELL				.15	.01		.01	.03							.24	.04	.10	.01	.01			.01	.01			.42		
HAMBURG																										.35	.35	
HARTLEY 3S											.01	.01						.33								.39		
HINTON 5WNW										.04	.14	.02			.07			.01	.01	.02	.02	.04	.01		.01	.32		
HORNICK											.08						.03	.10	.03	.07	.01					.10	1.10	
IDA GROVE 4S																												
IOWA CITY AP CAA	6	*	*	*	*	*	.15	*	*	*	*	*	*		.16			.97	.02	.01	.03	*	*	*	*	*	.19	.46
IOWA C RALSTON CRK1					.08	.01	.07	.11																.01	.24	.53		
IOWA C RALSTON CRK2				.01	.07	.01	.07	.12																		.29	.52	
IOWA C RALSTON CRK3		.01	.01		.01	.03	.04	.11	.01	.01																.27	.49	
IOWA C RALSTON CRK4					.09		.07	.06																			.25	.48
IOWA C RALSTON CRK5					.09		.10	.04																			.43	.46
IOWA FALLS 1N		.01	.02				.46	.15	.04	.01														.01	.02	.70		
KEOKUK WBO				.01																			.20	.55	.25	.50	1.66	
KNOXVILLE 2W			.11	.04	.01													.08	.02	.08		.01	.06	.14	.01	2.34		
LAMONI	1.69	.14	.02	.04		.05												.29	.01	.03	.01		.02		.02	.48		
LARRABEE										.01	.08	.01						.40	.20	.08	.18			.12	.04	.01	1.11	
LENOX	.02	.04	.01				.33	.01	.01															.01	.01	.11	.37	
MARION 4NE							.02	.08	*	*	*	*	*		.02							.03	.10	.02		.02	.46	
MARSHALLTOWN NO 2	6		.02	.03												.01	.24	.01	.04	.01	.01	.01	.01				.39	
MASON CITY AP CAA					.06	.13	.02	.08	*	*	*	*	*														.30	.30
MISSOURI VALLEY																										.01	.15	.37
MORSE					.06	.02	.01	.10	.01																		.31	.55
MORSE 1NE					.07	.01		.12	.01																		.31	.55
MORSE 4SSW		.01	.01	.01	.03		.09	.09	.01									.05	.06	.01	.06	.01	.01	.09	.04		.52	
MOUNT AYR 2N		.13	.03	.01	.02																						.29	.79
MOUNT PLEASANT				.01	.08	.13	.06	.01										.03	.29	.03	.09	.05	.02	.01	.01		.09	.09
MCVILLE	.01	.01	.01				.05	.04																			.05	.05
MUSCATINE NO 1					.01	.01	.01	.02																		.10	.50	.70
MUSCATINE 6N				.07	.03																						.10	.50
NORTH ENGLISH															.04	.34	.05	.14	.08	.91	.02	.05	.39	.23		.30	2.25	
NORWICH 2E SCS FARM																											.01	.11
OASIS		.01	.03		.05	.05	.01	.28																			.01	.11
OTTUMWA 1WSW			.05																								*	*
OTTUMWA AP CAA	6	*	*	*	*	*	.58											.35	.01	.05	.02	.02	.01	.02	.01	.02	.01	.56
REXSEN																		.04	.03								.05	.12
ROCKWELL CITY																		.09	.03	.05	.55	.02	.04	.14			.96	
SAINT CHARLES		.03			.01														.02	.06	.02						.21	.21
SIOUX CENTER							.01	.05	.05									.01	.03	.01	.02						.48	
SIOUX CITY WB APT							.33	.08										.03	.02	.03		.06	.02		.01		.44	
SOLDIER																											*	*
SPENCER 1N	6	*	*	*	*	*	.01	*	*	*	*	*	*		.02	*	*	*	*	*	*	*	*	*	*	*	*	1.21
TABOR 6NW																.61	.10	.30	.18	.02				.02		.01	.03	.06
TRAEER																											.15	.15
WASHINGTON				.05	.10															.03	.03						.21	.27
WEBSTER CITY																											.23	.23
WHEATLAND		.10	.01			.09	.03											.56	.04	.06		.01	.01	.05	.01	.01	.77	.77
WOODBINE 5SE																												
-21st-																												
ALLERTON																												.29
AMES 3SW		.05	.04	.07	.01	.01												.01	.09	.18							.24	.24
BELLEVUE L/D 12		.01	.01	.34	.15	.01																.07	.02				.61	.61
BURLINGTON WB APT	//	.01	.05	.42		.01																	.04	.04			.52	.52
CASCADE		.04	.15	.09																							.43	.43
CENTERVILLE		.12	.43	.02														.01	.04		.09	.06					.62	.62
CHARLES CITY		.08	.16	.04	.09	.01	.11											.01									.50	.50
COON RAPIDS		.01																									.01	.01
DAKOTA CITY		.15	.02	.02	.01													.01					.06	.04			.20	.20
DAVENPORT WB CITY		.02	.12	.02	.11	.01												.01	.03			.02					.39	.39
DERBY																		.02									.06	.06
DES MOINES WB APT																											.02	.02
DES MOINES WB CITY						.01																					.01	.01
DEXTER		.01	.17																								.18	.18
DUBUQUE WB CITY		.01	.04	.14	.02																	.03	.11				.35	.35
FOREST CITY		.11	.14	.09	.02																							

HOURLY PRECIPITATION

IOWA
OCTOBER 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
SHEFFIELD	.12	.29	.06	.13	.19																				.79
SHELL ROCK	.05	.06	.12	.01	.31	.10									.01	.03	.01								.70
SOLDIER	.01																								.01
SPENCER 1N	.04	*	*	*	*	*	.02																		.22
SPILLVILLE						.04	.05	.08									.04	.01							.35
STRAWBERRY POINT	.01	.12	.07				.01	.02							.02	.03	.02	.03	.02						.40
TRAEER	.02	.02	.01	.03	.01	.01							.05	.01	.16	.03	.03	.05							.40
WASHINGTON		.05	.25													.02	.06	.02							.29
WEBSTER CITY	.18	.02	.09																.05	.03					.43
WHEATLAND	.14	.12	.02	.02			.05																		.01
WOODBINE 5SE		.01																							
-22d-																									
IOWA CITY AP CAA	.05												.02												.04
IOWA C RALSTON CRK3																	.01								
-25th-																									
REAVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-26th-																									
ST ANSGAR 2S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-29th-																									
CENTERVILLE																					.03				.04
MUSCATINE NO 1																							.01	.05	.05
-30th-																									
BURLINGTON WB APT							.03	.02																	.05
CENTERVILLE		.01																							.01
KEOKUK WBO							.01	.01	.01																.03
-31st-																									
RINGSTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



See reference notes following Station Index.

DAILY TEMPERATURES

IOBA
OCTOBER 1949

Table 5

Station	Day of month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
AFTON	MAX MIN	72 39	72 39	79 57	70 47	72 50	76 55	86 58	83 64	80 49	71 50	69 41	70 30	71 35	73 38	76 37	72 35	74 40	72 45	72 51	70 54	63 37	61 25	53 37	49 25	55 28	54 19	65 32	69 38	70 40	59 29	45 12	68.5 39.9		
ALBIA	MAX MIN	75 41	81 50	74 64	75 53	69 57	74 59	87 82	84 67	85 57	74 60	65 45	71 39	77 48	71 48	70 38	73 43	78 48	75 52	73 55	72 59	64 38	63 34	57 42	51 32	55 35	56 26	65 38	71 46	71 47	57 33	42 20	69.3 46.3		
ALGONA	MAX MIN	74 50	67 54	80 55	68 40	75 49	75 60	81 60	83 56	69 48	70 55	60 48	73 38	70 45	64 48	65 35	73 42	77 49	75 51	67 58	66 51	61 38	63 30	56 37	45 25	47 34	55 24	68 38	71 37	64 45	53 27	45 18	66.5 43.3		
ALLISON	MAX MIN	74 39	78 41	81 57	71 48	70 50	77 57	84 60	79 66	73 60	72 60	61 47	70 35	76 45	65 40	67 33	72 38	75 45	75 45	70 55	72 49	72 40	60 30	52 35	50 25	45 31	44 22	62 34	71 40	69 40	55 36	49 19	67.5 42.8		
ALTA	MAX MIN	72 49	70 55	80 56	66 43	73 55	66 60	81 58	84 58	65 47	68 50	55 45	72 38	71 48	64 48	66 40	74 46	76 50	69 50	69 53	62 49	49 35	49 29	64 35	53 29	43 28	46 34	55 25	66 44	70 44	63 28	49 15	64.8 43.8		
ALTON	MAX MIN	73 52	73 53	82 44	70 35	77 54	74 60	80 55	80 50	65 45	73 52	64 45	76 35	75 44	70 43	69 31	76 46	77 43	78 42	70 54	60 45	67 33	68 27	62 35	46 27	50 38	58 22	71 41	72 34	62 46	56 33	52 15	68.5 41.5		
AMES 3SW	MAX MIN	74 45	74 48	81 58	69 51	71 54	74 58	85 60	82 67	78 51	72 56	57 44	69 35	75 42	63 51	66 32	72 37	76 44	73 48	70 56	69 57	62 43	60 32	52 41	48 26	47 34	47 29	53 20	59 29	66 39	70 36	60 30	40 20	66.4 41.5	
ANAMOSA 1NW	MAX MIN	72 35	79 43	72 63	71 52	66 46	65 54	83 55	83 65	79 57	76 59	67 46	67 32	76 42	66 45	65 35	69 37	74 42	72 42	69 53	67 59	64 42	59 38	54 29	47 26	47 29	53 20	57 29	68 39	72 36	69 30	53 20	69.3 41.5		
ATLANTIC 1E	MAX MIN	74 51	75 52	82 57	72 49	76 56	74 57	87 59	86 66	76 51	72 57	58 45	73 35	76 42	67 30	67 45	74 44	77 44	71 53	72 55	71 54	61 38	73 31	56 38	52 26	57 35	57 21	68 39	70 38	67 46	52 27	47 15	66.7 43.8		
ATLANTIC AP CAA	MAX MIN	74 51	71 50	81 57	70 49	72 53	72 58	85 54	87 54	77 50	71 49	55 34	72 30	75 39	61 37	66 29	73 43	76 43	69 41	70 52	69 54	64 31	44 27	44 33	54 23	50 25	53 18	68 36	70 33	67 45	52 23	47 16	66.7 40.0		
AUDUBON 2S	MAX MIN	74 40	70 51	80 56	69 50	67 57	78 55	84 61	84 60	65 42	61 41	57 43	75 35	69 36	72 41	70 42	75 44	72 44	73 47	73 50	61 52	54 34	54 30	59 28	47 23	47 25	53 18	59 36	66 33	70 45	60 33	40 15	66.4 41.5		
ANAMOSA 1NW	MAX MIN	72 35	79 43	72 63	71 52	66 46	65 54	83 55	83 65	79 57	76 59	67 46	67 32	76 42	66 45	65 35	69 37	74 42	72 42	69 53	67 59	64 42	59 38	54 29	47 26	47 29	53 20	57 29	68 39	72 36	69 30	53 20	69.3 41.5		
ATLANTIC 1E	MAX MIN	74 51	75 52	82 57	72 49	76 56	74 57	87 59	86 66	76 51	72 57	58 45	73 35	76 42	67 30	67 45	74 44	77 44	71 53	72 55	71 54	61 38	73 31	56 38	52 26	57 35	57 21	68 39	70 38	67 46	52 27	47 15	66.7 43.8		
ATLANTIC AP CAA	MAX MIN	74 51	71 50	81 57	70 49	72 53	72 58	85 54	87 54	77 50	71 49	55 34	72 30	75 39	61 37	66 29	73 43	76 43	69 41	70 52	69 54	64 31	44 27	44 33	54 23	50 25	53 18	68 36	70 33	67 45	52 23	47 16	66.7 40.0		
AUDUBON 2S	MAX MIN	74 40	70 51	80 56	69 50	67 57	78 55	84 61	84 60	65 42	61 41	57 43	75 35	69 36	72 41	70 42	75 44	72 44	73 47	73 50	61 52	54 34	54 30	59 28	47 23	47 25	53 18	59 36	66 33	70 45	60 33	40 15	66.4 41.5		
BANCROFT	MAX MIN	75 51	70 52	83 54	73 38	76 52	74 60	80 59	85 55	70 48	70 59	60 54	72 37	67 45	66 47	69 36	76 43	81 50	78 50	68 56	66 48	65 40	63 30	58 36	44 23	46 35	56 22	67 38	72 37	64 46	55 30	48 15	67.8 43.4		
BEDFORD 1N	MAX MIN	72 47	72 48	80 61	73 51	69 56	75 54	88 62	88 69	80 54	70 52	68 47	72 35	75 45	69 45	72 46	80 47	78 45	75 50	74 51	73 44	69 39	60 32	59 28	53 29	53 33	58 33	65 37	70 43	61 35	49 16	70.2 43.9			
BELLE PLAINE	MAX MIN	74 42	81 45	76 57	71 51	68 51	71 57	85 59	80 68	79 55	75 61	63 47	71 34	79 40	67 48	68 30	72 40	76 42	78 50	73 55	70 60	64 44	61 32	56 40	51 28	53 32	60 22	67 34	70 42	61 31	42 21	68.4 43.8			
BELLEVUE L AND D 12	MAX MIN	72 33	79 39	73 60	69 54	66 41	61 54	81 50	85 62	81 65	79 61	70 50	68 34	75 38	66 45	66 32	67 32	72 36	71 40	68 52	67 58	67 49	69 33	57 37	50 29	51 41	53 23	60 32	67 37	70 37	55 36	42 24	68.0 42.4		
BLOOMFIELD 2N	MAX MIN	69 35	73 53	76 58	75 65	68 62	75 65	83 65	84 65	83 67	76 54	67 50	73 48	71 43	68 43	68 43	69 43	73 43	72 43	68 43	71 43	63 43	62 43	54 43	47 43	50 43	54 43	67 43	70 43	67 43	54 43	44 15	67.7 45.0		
BOONE	MAX MIN	73 46	76 52	83 49	72 54	72 59	75 59	85 60	83 68	72 58	61 58	71 47	76 41	68 47	67 50	73 41	77 42	72 43	68 51	68 55	73 58	64 38	68 32	57 41	44 29	37 36	49 27	77 37	77 48	52 48	39 35	65.3 45.8			
BRITT	MAX MIN	64 45	64 50	73 55	70 38	68 46	69 45	78 56	79 65	78 45	70 43	62 44	63 34	59 42	57 45	59 33	65 42	68 47	68 49	73 52	64 53	68 35	57 27	57 33	44 20	37 33	49 18	77 35	77 34	52 42	26 11	68.7 40.1			
BURLINGTON WB APT	MAX MIN	73 46	80 50	80 64	65 58	70 58	67 58	85 61	87 66	86 65	80 54	68 45	70 38	73 43	66 44	67 47	70 41	76 45	76 50	75 57	71 58	67 41	60 35	60 42	49 31	58 30	54 23	60 35	74 38	67 43	56 28	50 21	68.1 45.6		
CARROLL	MAX MIN	75 50	74 53	84 55	72 47	72 55	74 59	86 60	86 60	71 49	70 56	59 47	74 38	78 45	65 49	68 34	74 44	77 48	73 49	73 54	87 52	83 37	70 29	61 25	51 20	52 34	58 40	69 38	74 40	67 30	41 16	68.9 44.1			
CASCADE	MAX MIN	74 33	80 38	71 63	71 53	68 42	62 52	84 51	86 65	79 60	77 61	69 45	67 32	76 41	66 46	66 29	68 31	72 34	74 39	69 55	67 49	65 45	59 32	56 38	49 27	49 27	53 30	60 34	67 36	70 33	60 21	40.8 40.8			
CASTANA 4E	MAX MIN	76 49	70 51	81 51	71 45	76 59	69 54	84 59	85 52	70 47	69 52	61 43	72 40	72 47	63 48	65 37	74 47	75 47	69 52	70 53	68 41	64 33	60 30	55 36	49 27	51 35	55 26	60 40	68 42	70 48	61 27	42 16	67.5 43.0		
CEDAR RAPIDS NO 1	MAX MIN	73 47	80 49	74 64	71 53	66 51	68 56	84 57	83 63	79 57	77 62	66 48	73 35	77 43	66 49	67 34	70 38	75 40	73 47	68 54	65 61	60 44	59 33	50 41	56 30	56 31	65 33	72 43	70 39	63 43	43 23	68.9 44.7			
CENTERVILLE	MAX MIN	73 42	78 46	76 64	70 54	68 56	75 59	86 63	84 68	84 57	75 58	66 47	70 36	75 45	68 45	68 44	73 41	78 48	71 52	72 55	68 80	65 42	60 33	59 41	50 31	56 33	56 25	65 35	72 45	70 45	63 38	43 18	68.9 45.9		
CHARITON 3E	MAX MIN																																		
CHARLES CITY	MAX MIN	72 48	75 52	77 56	68 47	70 51	74 58	82 59	77 57	72 51	72 53	57 40	69 35	74 44	65 38	65 40	69 47	73 48	74 56	69 59	70 35	63 32	60 34	51 28	44 28	44 24	54 36	64 48	69 44	67 28	46 20	65.5 42.5			
CHEROKEE	MAX MIN	74 50	73 51	80 46	69 37	74 57	68 60	82 57	85 59	69 46	70 50	59 45	72 35	70 45	64 46	68 33	74 45	76 46	69 52	72 54	62 48	48 34	65 28	58 34	45 25	46 37	57 35	66 40	70 36	63 48	49 14	69.7 42.3			
CLARINDA	MAX MIN	80 46	78 45	82 59	74 51	71 56	77 55	88 63	87 68	80 53	73 54	62 45	73 33	77 38	67 40	74 38	77 43	76 43	68 53	68 53	63 40	63 28	65 37	55 27	52 30	57 20	55 35	68 38	70 41	6					

DAILY TEMPERATURES

IOWA
OCTOBER 1949

Table S-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DECORAH 2S	MAX MIN	72 39	77 52	75 49	67 40	70 31	65 52	82 49	77 65	75 50	75 57	63 42	68 26	75 38	62 38	65 21	67 39	71 32	72 37	68 52	71 51	66 29	58 29	55 32	45 20	47 26	52 16	62 33	66 31	70 32	52 30	39 16	65.4 37.0
DELAWARE 2W	MAX MIN	71 40	80 46	71 57	69 50	68 42	62 50	82 50	82 65	78 54	84 64	75 42	68 30	78 42	65 43	62 32	76 38	68 36	72 44	67 52	65 56	63 37	59 29	54 34	47 23	50 28	55 19	60 32	69 36	70 42	56 28	46 16	66.8 40.5
DEMISON 1S	MAX MIN	73 50	73 52	82 55	69 47	75 58	70 59	83 60	85 65	71 48	71 56	63 45	71 38	74 45	62 48	66 31	73 47	75 49	68 52	70 53	62 50	52 35	63 30	58 38	46 25	50 38	54 24	69 40	69 36	66 47	52 31	45 16	66.5 44.1
DES MOINES WB APT	MAX MIN	73 46	76 51	80 62	70 53	70 56	76 58	87 60	84 59	80 55	73 55	57 43	72 38	75 46	64 47	68 38	73 43	77 48	73 48	70 53	70 60	63 56	64 60	54 32	51 33	53 33	55 33	65 31	71 28	70 38	56 45	44 18	68.2 45.1
DES MOINES WB CITY	MAX MIN	73 47	75 49	82 62	72 53	71 57	76 59	87 60	84 60	80 56	74 58	59 44	72 36	65 45	69 45	73 37	78 41	75 47	71 51	71 56	61 61	63 37	64 33	49 40	49 32	54 34	56 34	67 28	71 39	71 48	53 27	45 21	68.7 45.5
DUBUQUE L AND D 11	MAX MIN	68 45	74 50	68 59	67 53	65 45	61 52	77 52	82 63	78 60	78 59	67 40	65 40	73 47	64 53	63 37	67 42	67 42	69 45	64 55	65 58	64 46	58 32	54 45	48 34	56 34	56 25	58 36	64 40	67 41	60 36	36 25	64.6 45.2
DUBUQUE WB CITY	MAX MIN	72 45	79 53	73 64	70 50	68 46	60 53	83 54	86 66	80 63	79 58	69 46	68 41	77 49	64 46	66 38	68 42	72 43	73 47	66 57	68 61	67 40	60 34	55 40	48 34	49 34	53 34	61 27	68 38	71 42	49 33	41 26	66.5 45.6
ELKADER	MAX MIN	75 33	82 42	74 55	76 49	70 33	63 52	84 48	81 60	76 53	77 62	77 43	77 30	80 37	69 44	69 25	71 27	77 33	77 30	71 52	75 52	67 41	62 30	57 34	52 23	51 25	57 16	65 29	73 33	73 32	66 31	44 17	69.9 37.8
EMMITSBURG	MAX MIN	73 48	69 47	80 46	67 39	74 49	70 59	81 58	84 57	67 48	70 56	60 47	73 36	67 44	62 47	66 30	73 44	77 46	73 47	72 55	67 47	61 38	64 30	64 37	42 25	43 35	54 25	68 38	71 39	68 44	51 34	49 16	66.5 42.3
ESTHERVILLE	MAX MIN	73 47	64 49	81 43	68 36	75 45	68 57	64 55	84 50	67 46	70 54	62 45	73 37	65 49	65 41	68 33	76 43	78 47	75 55	69 45	63 35	55 30	64 35	54 21	41 33	55 26	66 40	70 35	64 45	51 25	48 16	65.2 40.8	
FAIRFIELD	MAX MIN	74 45	79 56	78 55	68 55	69 58	69 58	83 65	86 60	84 60	77 50	69 37	70 37	76 44	70 42	69 39	71 41	76 43	76 50	73 56	73 56	73 34	61 34	62 32	60 31	55 25	54 30	63 36	70 46	70 43	47 20	40 20	69.3 43.8
FAYETTE	MAX MIN	72 40	78 48	73 54	69 50	70 36	66 54	82 51	78 66	74 52	75 46	65 46	66 30	74 42	65 50	64 25	67 33	72 36	72 38	69 53	72 57	65 42	58 30	52 37	44 25	48 28	53 20	62 33	68 32	68 36	60 32	39 18	65.8 40.0
FOREST CITY	MAX MIN	74 43	68 52	82 54	70 39	74 48	77 58	82 56	82 66	76 48	70 50	56 41	70 30	64 42	66 39	73 26	77 42	77 46	65 48	69 55	61 37	61 29	51 36	43 24	46 29	55 18	67 35	67 32	64 32	51 28	44 13	66.2 40.3	
FORT DODGE	MAX MIN	73 52	71 54	82 56	69 45	73 52	71 60	85 60	84 69	71 49	70 56	59 47	71 38	73 47	63 47	65 32	72 45	75 51	72 46	67 56	67 57	45 38	63 31	52 39	43 25	52 34	54 25	67 39	69 36	66 48	41 33	45 17	65.5 44.8
GLENWOOD 2E	MAX MIN	74 52	76 51	85 41	72 51	77 60	74 59	87 60	90 65	78 51	73 59	60 47	75 36	72 41	64 44	70 32	76 47	78 44	69 54	76 54	68 48	52 36	62 29	57 38	53 27	57 37	56 24	71 40	73 45	70 50	56 35	50 15	69.3 44.3
GREENFIELD	MAX MIN	72 46	74 50	81 61	70 51	69 53	74 59	86 62	84 64	79 52	75 53	56 45	70 37	74 43	61 39	61 41	74 42	75 39	70 49	72 56	70 59	62 38	59 28	61 29	57 29	55 24	67 23	69 41					69.5 44.8
GRINNELL	MAX MIN	72 40	79 45	76 60	70 50	67 53	73 56	84 57	75 65	79 53	74 58	63 41	70 32	77 41	65 48	68 40	70 44	77 47	76 53	72 57	70 40	65 29	60 29	55 26	48 21	53 26	55 21	64 33	68 40	71 42	55 30	40 16	67.5 42.1
GRUDY CENTER 4NE	MAX MIN	73 44	78 46	77 58	72 49	69 50	76 57	79 58	80 65	76 60	74 60	65 46	70 32	77 42	68 40	76 32	75 39	73 46	75 46	61 58	71 39	65 30	48 35	48 26	55 31	55 21	67 33	71 39	68 44	53 29	42 18	67.7 42.4	
GUTHRIE CENTER	MAX MIN	73 48	71 53	82 59	70 50	70 53	74 60	85 60	85 69	76 50	72 58	62 48	68 38	73 47	68 49	73 35	76 44	70 49	69 52	67 55	62 60	61 39	55 31	48 41	51 28	56 35	69 26	72 40	67 43	67 49	53 30	46 17	67.4 45.6
GUTTENBERG L D 10	MAX MIN	72 44	84 48	72 57	70 53	67 42	64 53	83 53	85 83	84 55	78 60	68 50	69 35	79 49	67 50	69 35	68 38	72 40	72 43	69 53	69 55	67 41	61 31	56 41	50 28	50 32	55 23	62 37	68 38	72 39	64 30	42 20	68.0 43.1
HAMPTON	MAX MIN	71 45	72 52	79 56	73 46	69 50	75 57	83 57	80 67	75 50	71 58	62 40	70 38	75 50	63 50	66 34	70 34	75 48	73 46	67 56	67 54	64 40	60 31	55 39	46 26	49 34	55 24	67 38	70 40	66 48	55 30	42 19	66.6 43.7
HARLAN	MAX MIN	73 54	73 51	81 57	78 50	73 58	74 57	84 60	84 65	73 50	71 58	62 48	75 35	75 40	62 51	68 32	73 44	76 45	70 53	67 55	65 50	60 37	62 29	52 41	48 27	52 35	55 23	69 37	70 36	67 43	54 34	46 17	67.5 44.3
HAWARDEN	MAX MIN	72 53	75 45	84 42	71 34	76 60	69 56	63 52	73 55	67 45	71 52	65 46	76 30	60 47	66 38	68 32	75 38	72 48	75 56	63 49	50 42	43 33	67 28	56 33	46 23	47 37	58 24	70 36	70 31	62 45	50 32	15	65.0 40.6
IDA GROVE 4S	MAX MIN	70 19	72 52	83 53	69 43	75 58	71 60	85 59	86 56	67 48	70 55	61 41	73 38	76 45	66 49	70 38	75 36	77 47	70 51	73 54	62 46	47 35	64 29	55 36	47 24	50 36	56 24	68 39	72 36				68.2 43.1
INDEPENDENCE 2W	MAX MIN	73 41	78 43	74 56	72 48	68 44	66 52	83 54	79 63	77 50	75 57	65 45	67 32	75 39	67 48	65 35	68 35	72 41	74 44	70 52	68 55	59 40	54 28	46 38	49 25	53 31	62 20	69 29	70 36	62 41	40 18	66.7 41.0	
INDIANOLA	MAX MIN	76 52	78 49	83 61	73 51	72 55	77 58	90 62	87 67	84 60	77 58	66 47	75 38	81 47	66 48	72 35	76 42	81 46	77 53	73 58	65 41	63 31	56 40	50 28	56 35	58 25	68 38	74 48	74 52	61 35	45 18	71.2 46.1	
INWOOD 2W	MAX MIN	71 52	74 54	82 45	68 32	77 51	69 59	60 51	73 48	64 51	70 49	60 43	70 36	60 48	65 35	65 34	73 46	70 37	69 55	67 41	51 31	43 29	67 33	64 20	46 32	48 30	58 40	69 31	60 40	54 31	40 12	63.6 40.0	
IOWA CITY	MAX MIN	73 39	80 44	74 62	70 54	68 55	68 56	85 57	84 65	81 58	77 62	68 44	70 34	77 41	68 46	68 39	75 42	75 49	73 55	68 61	66 44	61 34	55 42	48 31	55 31	58 24	61 32	69 38	71 41	63 35	41 23	68.1 44.4	
IOWA CITY AP CAA	MAX MIN	74 38	80 38	75 54	70 53	69 55	68 55	86 59	86 66	82 59	78 49	69 41	70 33	77 37	68 43	71 33	76 36	77 43	74 36	69 54	67 62	61 40	56 34	49 29	53 28	55 20	61 31	69 37	71 35	50 30	41 22	68.5 41.4	
IOWA FALLS 1N	MAX MIN	73 45	75 50	80 53	69 47	70 51	78 54	80 58	80 66	75 45	71 57	62 43	71 32	77 40	66 49	67 32	71 36	77 45	76 54	68 55	67 38	57 29	60 35	58 24	49 30	49 20	56 36	63 39	68 43	54 32	41 16	67.4 42.1	
JEFFERSON	MAX MIN	73 49	71 55	81 59	73 49	70 55	73 60	85 61	84 70	80 51	74 56	60 46	70 37	74 43	62 51	65 32	72 42	75 47	71 52	69 56	66 39	63 31	53 40	47 27	53 36	55 25	68 36	69 40	68 46	55 32	46 18	67.3 45.2	
KNOX L D 19	MAX MIN	69 44	71 46	77 53	77 63	69 59	70 58	83 57	85 62	83 66	79 69	68 54	68 44	68 46	66 50																		

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Table 5-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
LE MARS	MAX MIN	71 51	72 51	81 45	68 38	75 48	70 61	77 57	78 50	65 48	71 52	57 46	74 39	66 50	66 46	65 34	74 50	74 54	69 54	66 42	67 33	29	36	26	26	36	25	48	33	48	32	15	64.4	
LOGAN	MAX MIN	73 50	75 50	83 52	75 48	76 60	71 58	83 58	88 55	72 49	72 56	60 46	75 37	76 43	64 49	68 30	75 44	76 46	72 52	65 51	43	33	27	40	37	36	24	37	38	45	30	16	42.8	
MAPLETON 5NW	MAX MIN	74 51	73 53	82 47	70 44	75 61	70 60	84 60	85 52	69 48	71 55	59 45	73 34	73 41	64 41	67 31	75 49	74 42	70 55	59 41	43	33	28	37	25	33	22	43	34	46	26	10	42.0	
MAQUOKETA 5E	MAX MIN	73 40	79 45	74 62	68 54	66 49	82 54	83 65	85 65	79 63	78 59	62 48	68 48	74 43	67 46	65 38	68 38	72 42	72 47	70 54	67 58	43	66	54	47	51	56	89	70	85	51	49	66.4	
MARSHALLTOWN	MAX MIN	74 45	79 49	80 57	79 51	70 53	75 57	85 58	80 65	76 38	71 53	65 50	69 32	75 44	64 50	66 30	72 37	78 43	74 47	71 52	61 55	60	32	36	28	32	22	28	40	42	39	20	43.1	
MASON CITY 3N	MAX MIN	72 47	70 53	82 56	69 42	70 47	77 56	81 58	79 60	68 50	71 50	57 42	69 33	72 46	64 42	67 28	71 41	77 45	75 45	66 56	69 57	63	31	35	25	46	54	68	68	64	51	42	65.7	
MASON CITY AP CAA	MAX MIN	72 46	71 49	82 51	69 42	72 48	75 57	80 57	79 53	70 49	70 49	57 36	68 34	71 45	62 36	64 32	69 37	74 45	73 46	65 55	68 55	61	31	32	26	46	54	67	67	64	46	12	64.8	
WILFORD 4NW	MAX MIN	72 48	70 51	79 47	68 38	74 54	65 59	80 55	83 49	65 44	68 54	60 46	70 37	63 46	64 40	65 33	73 45	75 45	73 51	68 55	62	34	29	33	24	39	22	35	69	62	48	14	40.8	
MILLERTON	MAX MIN	72 41	80 44	77 54	74 53	70 54	78 58	87 62	83 68	84 56	85 50	66 47	72 35	78 44	70 45	70 41	74 40	79 45	75 49	73 53	71	64	62	42	32	40	30	32	25	36	43	37	18	44.4
MISSOURI VALLEY	MAX MIN	76 52	76 51	85 57	77 47	76 61	74 60	88 59	89 55	72 51	75 57	65 48	77 42	78 50	68 49	70 34	78 50	80 55	69 56	66 44	44	34	30	38	28	36	27	43	40	48	29	16	45.5	
WOMMOUTH 4SW	MAX MIN	74 37	72 42	68 60	72 50	66 46	63 50	83 50	81 63	79 55	76 59	71 44	68 33	76 42	69 41	65 31	69 35	75 45	72 43	74 43	68	60	54	47	51	53	51	60	70	60	43	18	40.9	
MOUNT Ayr 2N	MAX MIN	72 45	78 47	78 63	74 53	69 55	79 67	85 87	81 89	72 53	60 55	73 46	77 35	76 48	60 42	70 39	74 46	76 40	71 42	73 53	68	64	64	56	51	59	56	68	71	71	57	46	69.2	
MOUNT PLEASANT	MAX MIN	74 39	81 47	80 63	68 58	72 58	69 57	86 58	88 66	86 66	78 61	72 47	72 35	77 44	79 42	84 43	71 41	77 44	77 40	74 54	67	63	60	50	58	58	60	73	71	62	42	70.3		
MUSCATINE NO 1	MAX MIN	75 43	80 47	77 63	88 60	70 58	72 58	85 58	87 57	82 65	79 60	71 50	71 37	76 46	70 44	68 41	72 41	75 41	76 48	75 56	69	66	63	60	51	55	55	62	71	72	59	43	69.3	
NEW HAMPTON	MAX MIN	73 39	76 43	75 49	71 40	70 41	75 50	82 49	75 60	72 45	73 47	58 37	58 25	68 34	65 36	65 30	68 32	74 39	69	71	64	59	52	45	47	54	54	66	69	72	55	43	68.3	
NEWTON	MAX MIN	72 44	79 49	78 62	72 52	70 67	74 59	85 61	79 67	78 53	75 59	63 47	71 36	77 46	66 40	67 42	72 48	78 52	77	71	65	61	54	49	54	41	43	53	65	68	53	43	66.6	
NORTHWOOD	MAX MIN	73 46	89 51	80 54	73 38	71 48	75 55	78 56	83 63	84 48	85 57	66 46	72 33	78 42	67 35	65 45	71 45	75 48	74	65	71	62	61	54	41	43	53	65	68	70	66	55	46	60.7
NORWICH 2E 800 FARM	MAX MIN	74 46	77 47	83 57	73 50	72 55	76 58	87 62	88 50	79 51	72 53	68 43	73 38	78 38	68 36	73 43	76 46	80 48	75	69	72	66	64	54	50	55	55	69	71	68	53	47	58.4	
OAKLAND 2E	MAX MIN	74 52	74 51	89 59	75 50	74 59	73 59	85 64	87 61	74 51	72 58	68 45	68 32	76 45	64 49	65 35	68 41	71 46	70	68	64	59	52	44	48	53	63	68	37	57	39	58.0		
OELWEIN	MAX MIN	72 45	77 59	74 58	70 50	74 44	57 55	82 56	78 67	74 52	65 60	48 32	45 49	68 35	76 41	65 46	68 49	71	74	70	68	64	59	52	44	48	53	63	68	37	43	31	20	54.0
ONAWA	MAX MIN	76 53	76 51	85 48	76 44	79 61	71 60	86 59	95 50	67 49	71 55	62 47	76 37	74 42	68 48	70 32	76 47	75	71	73	54	45	69	54	50	54	59	71	74	68	52	14	42.4	
OSAGE	MAX MIN	72 44	73 48	77 50	69 42	69 44	75 53	80 52	78 63	74 46	70 50	61 14	70 39	73 38	63 45	65 29	70 36	73	75	67	70	64	59	56	46	46	55	65	69	65	55	42	68.0	
OSCEOLA	MAX MIN	73 43	80 49	79 61	71 51	69 58	88 63	85 66	81 54	72 56	65 46	74 37	78 43	67 46	70 40	74 42	77	74	70	72	63	64	54	51	58	56	66	72	72	60	46	69.6		
OSKALOOSA	MAX MIN	75 44	81 44	78 63	76 54	67 56	73 59	85 62	83 67	76 57	64 50	73 44	80 33	74 44	63 47	65 33	75 48	76	69	72	66	65	64	54	50	55	55	69	71	68	53	47	58.4	
OTTUMWA 1WSW	MAX MIN	76 36	82 42	77 61	74 53	69 59	72 61	89 51	87 67	86 59	74 62	72 45	79 38	74 45	68 40	70 36	74	78	77	72	68	65	61	52	47	58	68	73	75	71	52	71.7		
OTTUMWA AP CAA	MAX MIN	73 43	79 46	75 63	70 55	68 58	66 59	84 63	84 67	82 57	75 38	64 43	69 39	76 46	68 50	70 44	75	73	71	70	64	62	56	49	55	55	65	70	70	63	41	67.8		
PERRY 2SE	MAX MIN	74 45	73 50	83 59	72 50	72 58	76 53	86 59	85 69	77 51	75 55	61 45	70 35	73 42	63 40	65 37	70 43	73	75	67	70	64	59	56	46	46	55	65	69	65	55	42	68.0	
POCASONTAS 2SE	MAX MIN	72 50	87 56	83 54	69 41	75 54	71 59	84 60	85 57	72 56	68 48	62 47	71 36	88 46	86 48	74 33	78 44	72	72	62	56	64	50	45	51	57	66	76	76	62	43	70.5		
PRINGHAR	MAX MIN	72 49	70 51	80 49	67 41	74 56	71 60	82 55	86 46	72 45	65 51	61 44	71 38	84 48	66 45	67	76	76	70	67	64	43	34	26	38	25	39	40					63.4	
RED OAK	MAX MIN	75 48	76 32	83 60	73 52	73 58	75 63	88 68	88 68	78 54	72 58	57 41	73 31	76 42	64 45	69 31	77	76	77	67	62	65	56	52	56	55	68	70	70	56	47	69.0		
ROCK RAPIDS	MAX MIN	69 53	71 50	80 44	66 35	74 60	68 52	80 60	73 64	69 55	67 43	59 30	72 45	64 38	62 47	60	64	68	67	64	56	64	42	45	58	68	68	68	68	59	49	52	53.4	
ROCKWELL CITY	MAX MIN	75 48	69 50	82 52	70 44	74 53	71 59	85 57	85 64	71 48	70 46	59 46	72 34	75 44	65 47	67	73	70	73	72	63	32	68	52	46	46	59	70	74	65	53	49	68.0	
SAC CITY	MAX MIN	75 49	68 54	65 55	73 44	75 67	69 61	86 60	87 53	68 49	70 58	80 47	76 39	79 48	68 50	70 34	77	79	73	72	63	32	68	52	46	46	59	70	74	65	53	49	68.0	
SANBORN	MAX MIN	70 48	68 50	77 49	65 37	73 53	65 58	62 54	61 50	65 41	68 51	57 44	64 36	64 47	63 40	65	73	73	70	65	60	51	62	54	41	43	55	68	68	60	51	46	62.8	
SARATOGA 2E	MAX MIN	72 46	72 51	76 54	67 42	71 44	72 55	80 52	75 59	70 49	71 43	60 46	67 26	71 48	63 48	68	69	71	73	68	63	38	28	36	24	34	19	34	28	39	30	14	38.9	
SHELDON	MAX MIN	72 60	70 52	80 48	37 34	75 56	66 52	61 48	81 52	65 48	69 54	58 42	62 33	65 45	60	64	65	73	73	69	65	60	45	64	48	42	44	56	67	68	60	50	48	60.3
SHEMANDOAN	MAX MIN	76 50	78 84	72 52	75 60	79 59	69 60	91 87	79 74	75 58	64 46	77 32	79 40	67 44	71 35	77	79	67	76	68	68	57	67	58	55	58	57	71	72	71	53	50	70.7	
SIBLBY	MAX MIN	70 60	70 49	78 40																														

DAILY TEMPERATURES

IOWA
OCTOBER 1949

Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
SIGOURNEY	MAX	73	80	76	72	71	70	86	87	82	76	65	70	78	69	70	71	77	77	74	71	64	63	56	50	54	57	63	72	71	62	54	69.7
	MIN	43	47	65	55	55	58	63	69	68	64	43	37	46	49	40	43	45	50	56	62	44	34	41	31	34	24	35	44	45	36	21	46.7
SIOUX CITY WB APT	MAX	75	76	83	72	77	70	82	82	69	71	61	74	68	64	68	76	75	72	72	48	43	68	52	49	50	58	70	72	64	46	54	66.5
	MIN	53	50	47	39	62	59	58	50	48	54	39	35	43	38	35	47	43	54	44	38	32	30	34	29	28	23	42	36	43	23	17	41.1
SIOUX RAPIDS	MAX	75	73	83	69	76	75	82	90	80	68	66	70	68	64	68	75	78	69	71	66	60	64	59	45	48	55	60	70	63	54	59	67.8
	MIN	47	52	45	37	55	57	57	50	50	55	48	31	41	32	28	42	47	50	55	47	35	29	33	22	28	18	25	40	32	22	18	39.6
SPERCER IN	MAX	74	70	80	66	75	66	77	84	67	70	58	70	65	62	67	75	77	73	68	64	45	63	55	42	45	56	66	69	63	44	48	64.6
	MIN	47	52	42	34	54	59	55	48	46	50	36	32	48	34	26	46	46	46	50	43	30	29	28	22	22	20	38	30	42	15	10	38.1
STATE CENTER	MAX	73	76	79	69	69	74	83	87	76	72	64	69	76	70	66	69	75	73	70	69	63	53	56	48	50	52	57	70	67	62	41	67.0
	MIN	44	46	59	48	52	59	60	66	53	59	46	42	43	49	33	41	47	50	56	57	35	35	35	28	34	24	32	43	44	34	19	44.3
STORM LAKE 2E	MAX	73	69	80	69	74	68	82	84	66	70	62	69	69	62	65	73	75	70	70	66	61	62	55	43	47	55	64	70	64	53	46	65.7
	MIN	49	53	49	41	55	59	58	63	47	54	45	41	50	48	35	46	47	45	53	50	35	31	36	25	35	28	39	38	48	32	16	43.6
TINLEY	MAX	73	78	80	75	71	78	86	86	82	72	68	72	77	68	69	75	77	75	74	63	58	65	60	53	58	54	67	72	74	55	47	69.7
	MIN	40	40	59	43	51	50	59	64	49	50	42	31	39	40	35	40	42	48	50	54	34	27	35	27	29	20	30	39	40	31	17	40.5
TIPTON	MAX	73	79	76	69	68	66	86	86	78	78	71	68	77	68	69	68	74	76	73	68	66	58	52	50	53	53	62	70	72	62	46	68.2
	MIN	43	48	62	54	51	54	48	66	55	58	47	34	43	42	38	38	41	47	53	62	42	34	38	28	29	32	33	41	42	30	19	43.6
TOLEDO	MAX	76	81	78	71	68	74	86	81	79	73	63	72	80	65	70	73	79	71	73	70	65	61	54	50	53	57	66	73	73	58	45	69.0
	MIN	44	48	59	50	52	57	59	66	54	60	48	36	44	50	33	42	44	49	45	59	44	32	40	29	34	24	35	43	45	33	21	44.5
TRIPOLI	MAX	73	78	77	72	70	75	83	78	75	75	67	69	77	68	66	67	73	74	70	68	66	60	56	49	50	57	64	70	70	62	43	67.8
	MIN	45	48	57	48	45	55	57	67	51	55	47	32	43	51	34	39	45	48	55	57	42	31	37	26	35	21	34	35	44	33	17	43.0
VINTON	MAX	74	80	76	73	68	73	85	82	80	82	72	69		65	68	71	75	72	71	70	67	60		48	50	54	61	68	70	60	41	68.4
	MIN	42	36	60	51	44	56	59	68	56	62	49	35		51	29	36	37	43	55	60	43	43		28	33	22	34	37	40	35	21	43.6
WASHINGTON	MAX	77	80	76	70	71	71	86	86	83	78	70	72	77	70	70	72	77	79	75	70	66	63	60	51	55	56	63	72	71	62	44	70.1
	MIN	40	47	64	56	58	57	57	67	61	59	47	35	40	41	40	39	43	47	54	60	45	32	40	31	32	23	35	42	45	34	21	44.9
WATERLOO	MAX	72	75	75	69	68	73	82	80	73	74	62	68	76	65	65	70	72	73	70	69	65	59	52	46	50	54	64	69	70	60	41	66.5
	MIN	44	47	56	49	47	55	59	67	51	62	42	32	41	48	29	37	43	44	54	58	42	30	38	26	34	20	32	37	42	33	19	42.5
WAUKEE	MAX	73	75	82	75	71	75	87	84	80	75	70	72	77	70	69	74	78	75	72	71	65	64	58	49	54	56	67	71	71	60	45	69.8
	MIN	47	45	65	53	57	52	60	70	56	60	40	36	45	52	37	41	47	51	56	61	44	32	44	30	38	25	38	45	48	22	18	45.6
WAUKON	MAX	71	77	70	66	70	64	80	77	73	74	70	73	76	65	64	68	70	72	67	71	63	59	53	43	47	54	61	69	69	57	48	65.8
	MIN	41	60	54	47	43	52	51	65	51	57	50	34	43	50	39	36	41	44	54	54	40	28	38	29	30	26	35	39	43	30	19	42.7
WEBSTER CITY	MAX	75	73	84	73	74	77	85	86	78	72	61	72	77	65	67	73	77	75	67	70	64	62	55	50	52	50	68	70	67	54	43	68.3
	MIN	47	50	55	48	53	59	59	67	50	58	45	30	37	49	29	39	47	51	55	56	40	30	39	25	36	19	35	33	40	29	16	42.8
WILLIAMSBURG	MAX	72	79	75	69	69	70	85	83	79	76	65	71	78	66	67	71	76	77	72	70	64	61	55	50	52	56	61	70	71	60	42	68.1
	MIN	41	43	62	52	55	56	59	59	57	61	48	35	42	47	36	38	43	48	54	60	44	31	41	30	33	24	33	40	41	32	22	44.1
WINTERSSET	MAX	74	78	84	72	71	81	90	87	81	73	65	75	79	67	71	76	79	74	73	71	63	65	57	54	58	58	68	75	70	58	49	70.8
	MIN	52	52	61	52	55	60	64	69	52	55	40	38	45	46	36	46	49	53	56	60	42	31	38	27	36	24	39	44	47	34	16	45.8
WOODWARD 7N	MAX	74	74	82	75	72	74	85	83	79	74	66	71	77	69	66	73	77	73	69	70	64	61	56	48	51	55	68	71	69	56	44	68.6
	MIN	49	53	61	50	56	59	60	59	51	55	49	38	44	51	40	41	48	51	55	60	43	31	40	28	37	25	37	41	38	34	18	45.2

Table 6 for this issue may be found on Page 179.

SOIL TEMPERATURES AT AMES, IOWA OCTOBER, 1949

Temperature	4 feet above ground	Depth						
		1 inch	2 1/4 inches	6 inches	12 inches	24 inches	48 inches	72 inches
Average 7 a.m.	47.4	48.6	45.8	54.4	57.0	58.4		
Average 12 noon	61.7	56.8	56.9	54.9	56.6	58.7		
Average 7 p.m.	54.8	55.6	56.7	57.6	56.9	58.3	58.8	59.1
Highest	85	71	70	68	65	63	61	60
Date	7	8	3	3+	8+	9+	1	1+
Lowest	19	31	32	41	47	52	55	57
Date	31	31	31	31	26+	28+	30+	30+
Number of days with temperature								
0° or lower	0	0	0	0	0	0	0	0
24° or lower	0	0	0	0	0	0	0	0
32° or lower	5	2	1	0	0	0	0	0
40° or higher	31	30	30	31	31	31	31	31
50° or higher	29	24	25	26	28	31	31	31
60° or higher	24	14	12	12	11	15	16	14
90° or higher	0	0	0	0	0	0	0	0

The range of diurnal changes at depths greater than 24 inches is about 1°. Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

See reference notes following Station Index.

STATION INDEX

OCTOBER 1960

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9	41 02	94 33	1200	SP	6P	Fred K. Leab	2 3 5	Korse 1 mi. NE	5737	Johnson	10	41 40	91 25			Lawrence J. Wall	3 4	
Akron	0088	Plymouth	1	42 49	95 13	1153	SP	6P	Orland C. Moore	2 3 5	Korse 4 mi. SW	5742	Johnson	10	41 41	91 38			L. J. Fuhrmeister	3 4	
Albia	0112	Monroe	8	41 02	92 48	948	SP	7A	Arthur L. Freed	2 3 5 7	Mount Air 2 mi. N	5769	Ringgold	9	40 44	94 14	1214	6P	SP	N. L. Corvallis	2 3 4 5
Algon	0133	Kossuth	8	43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5	Mount Pleasant	5796	Woodbury	31	40 57	91 32	730	6P	SP	A. M. Patterson	2 3 4 5
Allerton	0149	Wayne	9	40 42	93 23				Herman E. Reddy	2 3 5	Moville	5823	Woodbury	11	42 39	96 04			Elmer W. Widmark	3 4	
Allison	0157	Butler	4	42 46	92 47	1090	7P	7P	D. Telliahuise	2 3 5	Muscataine No. 1	5837	Muscataine	14	41 38	91 03	686	7P	7P	F. J. Bauerbach	2 3 4 5
Alta	0173	Des Moines	20	42 40	96 18	1312	7P	7A	F. Edna Allen	2 3 5	Muscataine No. 2	5842	Muscataine	14	41 35	91 03	546	7A	7A	Robert B. Hagy	3 4
Alton	0181	Sioux	7	42 59	98 01	1305	7P	7A	E. S. Hagle	2 3 5	Muscataine 6 mi. N	5847	Muscataine	14	41 30	91 03			Bureau of Entomology	3 4	
Ames 3 mi. SW	0205	Story	21	42 00	93 39	1004	7P	7P	Charles M. Brown	2 3 4 5 6 7	New Hampton	5952	Clatsop	27	43 04	92 19	1156	7P	7P	Luddy Hrellick	2 3 5
Anamosa 1 mi. NW	0213	Jones	27	42 07	91 18	875	7P	7P	State Reformatory	2 3 5	Newton	5992	Jasper	21	41 43	93 04	789	7P	7P	Al E. Schaal	2 3 5
Atlantic 1 mi. E	0364	Cass	16	41 34	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	North English	6078	Iowa	4	41 39	92 05	789		Ernest E. Andrews	3 4	
Atlantic AP CAA	0369	Cass	16	41 34	94 59	1152	MID	MID	Airways Com. Sta.	2 3 4 5 7	Northwood	6103	North	4	43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5
Audubon 2 mi. S	0385	Audubon	16	41 42	94 57	1397	SP	6P	Ralph E. Kirby	2 3 5	Norwich 300 Exp Farm	6119	Paga	22	40 45	93 13	1132	7P	7P	Elli Cons. Service	2 3 4 5 7
Augusta	0389	Des Moines	21	40 46	91 17	522	5A	5A	Glen Wood	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16	41 19	95 23	1150	8P	6P	Ward D. Reineke	2 3 5
Bancroft	0483	Kossuth	8	43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Osella	6186	Johnson	10	41 43	91 24			Ed. Kadere	3 4	
Barlett 3 mi. E	0493	Fremont	28	40 53	95 44				R. L. Kilpatrick	3 4	Osella	6200	Fayette	27	43 40	91 55	1038	8P	8P	Milo N. Frane	2 3 5 7
Beaver	0549	Boone	5	42 02	94 08				Virgil J. Stark	2 3 5	Osella	6243	Monona	15	42 02	96 56	1059	7P	7A	W. J. Oliver	2 3 5
Bedford 1 mi. N	0576	Taylor	28	40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Osage	6305	Mitchell	4	43 17	92 48	1170	SP	6P	L. J. Lamprecht	2 3 5
Belle Plaine	0600	Benton	10	41 54	92 17	853	7P	7A	Walter C. Rabe	2 3 5	Oswego	6316	Clarke	6	41 02	93 46	1136	SP	6P	Ray A. Kerns	2 3 5 7
Bellevue Lock & Dam 12	0608	Jackson	14	42 16	90 25	705	7P	7A	U. S. Engineers	2 3 4 5	Oskaloosa	6327	Wahaska	8	41 17	92 40	813	8P	6P	Cliff Bergtresser	2 3 5 7
Blockton 2 mi. S	0745	Taylor	10	40 36	94 29	1081	5P	5P	Glen A. Cobb	3	Ottumwa 1 mi. SW	6386	Wapello	6	41 01	92 26	649	8P	7P	C. L. Wiken	2 3 4 5
Bloomfield 2 mi. N	0753	Davis	8	40 47	93 26	825	7P	7P	Mrs. Leo Foster	2 3 5	Ottumwa AP CAA	6389	Wapello	6	41 06	92 27	843	MID	MID	Airways Com. Sta.	2 3 4 5 7
Boone	0807	Boone	8	42 04	93 53	1126	8P	8P	E. G. Kolb	2 3 5	Ottumwa	6391	Wapello	6	41 06	92 27	843	7P	7P	Walter Kinross	3
Boone Waterworks	0809	Boone	8	42 05	93 56	872	7A	7A	Andrew Lindblom	2 3 5	Pella	6397	Warren	20	41 51	94 06	975	7P	7P	S. C. Sealing	3
Britt	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Must	2 3 5	Perry 2 mi. SE	6405	DeWitt	20	41 51	94 06	975	7P	7P	Engene W. Hattie	2 3 5
Burlington WB Airport	1063	Des Moines	14	40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Pocahontas	6419	Pocahontas	8	42 44	94 40	1228	5P	5P	Thomas A. McWhon	2 3 5
Carroll	1233	Carroll	30	43 04	94 52	1280	7P	7A	Bee H. Schankelberg	2 3 5	Pringle	6400	O'Brien	11	43 05	95 38	1517	5P	6P	R. A. Ballard	2 3 5
Cascade	1257	Dubuque	12	42 18	91 00	800	7P	7P	C. J. Meiers	2 3 5	Red Oak	6441	Montgomery	16	41 01	95 13	1077	8P	MID	Clarence K. Totty	2 3 5
Castana 4 mi. E	1277	Monona	11	42 04	95 49				Bob Zimmerman	2 3 5 7	Red Oak 1 mi. NW	6490	Montgomery	16	41 01	95 14			Wm. E. W. Cozad	3	
Cedar Falls	1300	Black Hawk	4	47 32	92 27	875	7P	7P	K. J. Cable	3	Remsen	6975	Plymouth	7	42 49	95 58			Municipal P & T Pl.	3 4	
Cedar Rapids No. 1	1319	Linn	4	41 59	91 39	813	7P	7A	John F. Wurster	2 3 5 7	Ringsted	7058	Emmet	5	43 18	94 30			W. C. Christensen	3 4	
Cedar Rapids No. 2	1324	Linn	4	41 58	91 40				C. M. Simon	3	Riverton	7085	Fremont	16	40 41	95 35	920	7P	7P	William Stubbs	2 3 5 7
Centerville	1354	Appanoose	5	40 30	93 15	1012	7P	7P	Earl McIntire	2 3 4 5	Rock Rapids	7147	Lyon	1	42 36	96 10	1341	7P	7P	George Raveling	2 3 4 5 7
Chariton 3 mi. E	1394	Lucas	4	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Rockwell City	7161	Calhoun	20	42 24	94 37	1223	7P	7P	F. C. Heitschpacher	2 3 4 5
Charles City	1402	Floyd	8	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Sac City	7312	Sac	30	42 28	94 59	1274	8P	8P	W. Floyd Wapary	2 3 5
Cherokee	1442	Cherokee	11	42 45	95 33	1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7	Saint Ansgar 2 mi. SW	7326	Mitchell	6	43 24	92 56			Donald H. Cowell	3 4	
Cherokee	1528	Cedar	4	41 33	91 03				Ronald W. Harkness	3	Saint Charles	7340	Madison	6	43 18	93 47			Rose E. Fink	2 4	
Clarendon	1533	Paga	17	40 44	95 01	1034	7P	7A	Walter L. Warkness	2 3 5	Saint Charles	7386	O'Brien	7	43 11	95 39	1052	7P	7P	Miss Bernice O'Dowd	2 3 5
Clarks	1541	Wright	1	42 44	93 44	1170	7P	7P	George Reader	3 5	Sasboro	7410	Howard	22	43 22	92 32			Don A. Fairchild	2 3 5 7	
Clarton	1635	Clarton	14	41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Shelfield 2 E	7410	Howard	22	43 22	92 32			Richard J. Galvin	3 4	
Clinton No. 1	1640	Clinton	14	41 50	90 11				David M. Swift	3	Sheldon	7594	O'Brien	7	43 10	95 51	1418	7P	7P	Rose E. Forward	2 3 5
Clinton No. 2	1731	Louisa	20	41 51	91 32	595	6P	6P	Alice Best	2 3 5	Shell Rock	7602	Butler	4	42 43	92 25			Elmer J. Apfel	3 4	
Columbus Junction	1793	Carroll	10	41 51	94 39				Charles E. Smith	3 4 5	Shenandoah	7613	Paga	16	40 46	95 23	974	5P	5P	Earl Ray Seed Co.	2 3 5 7
Corn Rapids	1838	Adams	17	41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 5	Shenandoah	7654	Oswego	1	43 24	95 45	1494	5P	5P	N. S. Stewart	2 3 5
Corsing 1 mi. W	1893	Pottawattamie	15	41 19	95 49				Mrs. H. O. Crane	3 4	Sidney	7678	Fremont	16	40 45	95 38	1050	5P	5P	James B. Swearer	2 3 5
Council Bluffs 6 mi. NE	1849	Pottawattamie	15	41 19	95 49	1285	6P	6P	Perry C. Cranfill	2 3 5 7	Sioux Center	7700	Sioux	21	41 20	92 32	780	7P	7A	Sarah A. Sanderson	2 3 5
Council Bluffs 5 mi. NE	1954	Howard	23	43 22	92 07	1255	6P	6P	Guy D. Humphrey	2 3 5	Sioux City 8 mi. N	7703	Plymouth	1	43 05	96 12	1456	6P	6P	Richard J. Kroon	2 3 5
Cresco	1952	Union	10	41 03	94 22	1300	7P	7A	Nellie Spangler	2 3 5	Sioux City 10 mi. N	7706	Woodbury	15	42 38	98 24			Richard J. Kroon	2 3 5	
Creston	2007	Cass	17	41 18	94 55	1325	5P	5P	Carl E. Pollock	2 3 5	Sioux City WB Airport	7713	Woodbury	10	42 32	98 25			Leo Vondrak	3	
Cumberland 5 mi. NW	2026	Ida	11	42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sioux City 4 mi. N	7726	Des Moines	11	42 53	95 08	1275	7P	7P	U.S. Weather Bureau	2 3 4 5 7
Cushing 3 mi. NE	2037	Ida	11	42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sioux Rapids	7728	Woodbury	15	42 14	96 14	1071	7P	7A	W. A. Simonsen	2 3 5
Dakota City	2037	Humboldt	6	42 44	94 12	1133	7P	7P	N. S. Brandsgard	2 3 4 5 7	Sioux Falls	7738	Woodbury	15	42 14	96 14	1071	7P	7A	N. P. Johnson	2 3 5
Davenport WB City	2069	Scott	14	41 30	90 38	879	MID	MID	U.S. Weather Bureau	2 3 5	Soldier	7774	Monona	15	41 59	95 46			John T. Fede	2 3 4 5 7	
Decorah Dry Run	2110	Winnebago	24	43 10	91 48	579	5P	5P	Walter Bates	2 3 5	Spencer 1 mi. N	7844	Clay	11	43 10	95 12	1321	MID	MID	Radio Station KICD	2 3 4 5 7
Decorah 2 mi. S	2112	Winnebago	24	43 13	91 47	980	7P	7A	Charles Carlson	2 3 5 7	Spillville	7855	Winnebago	14	43 12	91 37			Louis J. Henda	2 3 5	
Delaware 2 mi. W	2136	Delaware	12	42 28	91 23	1092	7P	7A	Clair E. Paris	2 3 5	State Center	7925	Marshall	10	42 01	92 10	1059	7P	7P	Radio Station KAVL	2 3 5
Denison 1 mi. S	2171	Crawford	4	42 00	92 29				E. M. Burg	2 3 5 7	Storm Lake 2 mi. E	8009	Sioux Falls	20	42 38	95 11	1435	8P	8P		

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperatures in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 12-7-49 -- 1115

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In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

NOVEMBER 1949

Volume LX No. 11



IOWA - NOVEMBER, 1949

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of November, 1949, was both the 6th driest and the 6th warmest in Iowa since state-wide records were published in 1873. Precipitation, which normally averages 1.71 inches, was only 0.49 inch on a state-wide basis. In general, the western portions of the state received the least amounts, and the heaviest accumulations were in the east central section. Many points in the north-west and west central districts received monthly amounts of less than 1/10 inch. Thus, this November continued the long dry spell which had persisted since July. Deficiencies in moisture from that date had accumulated to 2 inches in the west central district, to 3 inches and over in all other districts, with the greatest deficit in the northeast where it amounted to over 7 1/2 inches.

The mild and open weather that characterized much of October continued in November. After minor temperature fluctuations the first 5 days, a spell of unusually warm and mild weather set in that lasted until the 14th. Daily readings over 20 degrees above normal occurred on several days during this period as 70° readings were common. This open weather was particularly beneficial to Iowa farmers in their efforts to salvage the corn that was on the ground. A considerable portion of this corn was gleaned by hand. However, the greater portion was utilized through livestock in the fields. As of November 12, the Department of Agriculture estimated that 90% of the corn was picked, which made the harvest this year one of the earliest of record, being 1 to 3 weeks ahead of recent years.

The first significant precipitation for the month occurred on the 11th-12th, but only about 1/3 of the state was benefited. These rain showers of only 1/2 to 1 inch were mostly in southern and eastern Iowa as large areas elsewhere in the state received only a trace. Temperatures returned to near seasonal levels on the 14th as northern winds brought in fresh Canadian air. These winds persisted for 3 days and caused brief snow flurries, particularly in the northeast. Nevertheless, temperatures remained at or above the seasonal level. On the 24th, Thanksgiving Day, another minor storm brought snow flurries to some sections and light snow to other sections of the state. The northeast district received the heaviest amounts with up to 3 inches being reported in several counties. This snow temporarily stopped all field work and roads were rather slippery for 2 days.

From the 26th through the 30th, another warm and mild period prevailed as temperatures rose into the 50's and 60's each day except in the extreme northeast. In general, the weather was most pleasant for all Iowans during the entire month. There was some concern over the effect of the dry weather which had caused some shallow wells to go dry. Since the ground was not frozen at the end of the month, a good soaking rain would be most beneficial before the ground freezes.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
NOVEMBER 1949

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
Burlington WB Airport	SW	20	14.8	43	NW	16	76	81	56	66	6	2	2	0	0	0	10	62	5.1	559
Charles City WB City			7.3	21	NW	19					5	4	2	0	0	0	11	47	5.7	792
Davenport WB City											10	1	2	0	0	0	13			670
Des Moines WB City	NW†	19†	11.2				74†	79†	55†	59†	6	3	2	0	0	0	11	71	4.9†	643
Dubuque WB City			6.3	28	NW	30					9	2	2	0	0	0	13	50	6.5	729
Sioux City WB Airport	NW	18	10.9	45	NW	13	73	77	49	58	5	1	0	0	0	0	6	83	3.8	678

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	36.2	64	- 4	0.72			1903	34.2	76	- 5	0.52	1.1	3	1933	37.9	83	- 7	0.31	1.2	3
1874	32.9	74	- 6	2.21			1904	41.0	80	- 4	0.15	0.5	1	1934	41.9	79	- 11	5.03	7.2	10
1875	30.1	60	- 16	0.19			1905	38.4	70	- 12	2.84	0.6	5	1935	34.0	73	- 7	2.70	1.8	8
1876	31.3	68	- 6	1.70			1906	35.4	76	- 5	2.03	4.4	8	1936	35.5	77	- 5	0.66	2.3	4
1877	33.3	82	- 10	1.86			1907	36.7	68	- 4	1.03	0.9	4	1937	33.9	82	- 17	0.72	5.2	4
1878	39.7	72	12	0.63			1908	39.3	80	- 5	1.56	1.4	5	1938	37.6	83	- 8	2.76	3.1	6
1879	38.3	75	- 4	4.08			1909	42.4	84	- 3	5.39	6.8	10	1939	39.9	74	- 9	0.51		3
1880	25.3	68	- 12	1.29			1910	33.4	76	- 5	0.34	0.7	3	1940	33.6	78	- 12	2.45	5.0	8
1881	34.4	65	- 1	2.01			1911	29.9	79	- 8	1.42	1.6	6	1941	40.0	78	- 2	1.71	2.6	5
1882	37.5	76	- 4	1.71			1912	40.1	77	- 6	0.98	T	2	1942	38.8	80	- 10	1.76	5.1	8
1883	36.8	70	- 3	1.44			1913	44.1	78	- 10	1.18	0.4	6	1943	33.8	72	- 1	1.01	3.1	4
1884	35.6	68	- 15	0.79			1914	41.0	80	- 4	0.22	T	2	1944	40.4	81	- 0	1.73	2.6	8
1885	36.4	67	- 14	0.69			1915	40.2	83	- 5	1.94	1.2	6	1945	36.9	81	- 3	1.25	1.9	5
1886	32.1	75	- 4	1.49			1916	37.3	80	- 8	1.61	3.6	5	1946	38.1	68	- 1	1.74	1.5	6
1887	35.1	78	- 25	0.85			1917	40.7	77	- 3	0.28	1.4	3	1947	32.6	65	- 22	1.83	7.7	10
1888	37.1	82	- 0	1.56			1918	39.9	76	- 0	2.11	4.4	7	1948	39.0	76	- 4	2.68	2.1	8
1889	33.0	68	- 9	1.44			1919	33.6	68	- 12	3.40	6.3	8	1949	41.7	79	- 6	0.49	0.6	3
1890	38.9	78	- 2	1.31			1920	35.4	71	- 5	2.18	1.2	8							
1891	30.5	84	- 24	1.70		7	1921	33.6	70	- 5	0.58	3.4	5							
1892	33.3	70	- 3	1.10	1.8	4	1922	42.2	74	- 11	3.54	0.3	9	PERIOD	36.4	86	- 25	1.61	2.6	
1893	34.0	86	- 13	1.17	4.6	4	1923	40.1	72	- 9	0.58	1.2	3							
1894	32.7	72	- 5	0.92	0.4	4	1924	38.9	82	- 0	0.58	0.4	4							
1895	34.3	86	- 12	1.51	4.9	6	1925	36.1	68	- 6	0.71	4.0	4							
1896	29.6	82	- 15	1.83	2.9	6	1926	32.6	71	- 3	2.10	4.2	7							
1897	34.3	81	- 19	0.66	1.2	5	1927	37.7	81	- 0	0.87	0.6	5							
1898	32.2	78	- 17	1.50	8.7	6	1928	38.7	70	- 8	3.83	6.9	9							
1899	43.9	86	- 8	1.20	0.5	5	1929	32.3	66	- 12	1.24	2.7	6							
1900	33.5	79	- 6	1.06	3.7	6	1930	41.3	79	- 16	2.12	1.1	5							
1901	35.8	77	- 2	0.86	2.6	3	1931	43.9	81	- 1	5.76	1.6	12							
1902	41.2	79	- 4	2.13	1.8	7	1932	33.2	68	- 5	1.55	3.8	4							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
NOVEMBER 1949

Table 2

Station	Temperature							Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	41.6	5.9	75	7	18	18	19	.00	-1.57	.03	12	.0					2	
Alton	43.7	8.3	78	10	17	5	22	.05	-1.17		13+	T						
Cherokee	41.7	6.6	76	10	15	21	18	T	-1.33		12	T					1	
Emetsburg	40.9		77	7+	16	22	19	.20		.20	12	T					4	
Estherville	40.5	6.8	77	10	18	5	19	.19	-1.23	.07	14	1.1	T		21+			
Hawarden	42.2	6.5	77	10	20	18+	21	.05	-1.05	.05	12	.0					1	
Inwood 2 W	41.0	6.9	74	10	16	18	18	.06	-1.03	.04	24	.2	T		21		3	
Lake Park	40.4	7.3	71	10	18	21+	20	T	-1.25		12+	T						
Le Mars	43.0	6.9	75	10	19	5	16	T	-1.19		21	T						
Milford 4 NW	39.6	6.1	75	10	17	3+	21	.08	-1.22	.04	24	.4	T		24		3	
Pocahontas 2 SE	41.3	5.7	77	7	11	22	20	.00	-1.57			.0						
Pringhar	43.1M	8.6	76	10	15	21		.00	-1.30			.0						
Rock Rapids	40.5	7.9	74	10	17	5+	22	.08	-1.13	.08	12	T	T		24		1	
Sanborn	40.3	6.2	73	10	16	21	19	.09	-1.23	.06	13	T	T		24		2	
Sheldon	40.2	6.0	75	10	15	22	22	.06	-1.15	.04	12	T	T		24		2	
Sibley	39.4	6.9	72	10	16	3+	22	.22	-.98	.10	24	T	T		20+		3	
Sioux Rapids	38.4	3.5					15	.04	-1.36	.04	24	.0					1	
Storm Lake 2 E	42.2	6.2	73	10	17	22												
DIVISION	41.1	6.5						.07	-1.25			.1						
NORTH CENTRAL DIVISION																		
Algona	41.0	5.6	77	7	17	22+	20	.21	-1.41	.08	12	.5	T		20+		4	
Allison	40.7	5.3	74	7	15	22	19	.68	-1.14	.24	12	5					4	
Bancroft	41.4	7.4	79	10	17	22	20	.25	-1.35	.09	12	1.0	T		19+		4	
Britt	35.4	.7	68	10+	12	22	27	.30	-1.28	.20	12	.8	1		21		2	
Charles City	38.7	3.9	74	7	18	22	21	.75	-1.12	.39	12	2.6	2		24+		6	
Clarion	39.9	3.6	75	7	14	22	23	.35	-1.45	.25	12	1.0	T		20+		2	
Dakota City	40.9	4.6	76	7	17	22	20	.23	-1.53	.10	24	.2	T		24		3	
Forest City	37.8	3.4	75	7+	11	21+	24	.63	-1.07	.19	13	.9	T		21+		4	
Hampton	40.6	5.1	73	7+	17	21+	19	.63	-1.22	.36	12	.8	T		21+		6	
Mason City 3 N	38.4	3.7	73	7+	12	21	23	.50	-1.12	.29	12	2.9	2		24+		5	
Mason City AP CAA	37.7	3.0	73	7	13	21	22	.51	-1.11	.26	12	2.0	1		24+		5	
Northwood	38.5	4.5	74	7	11	21	21	.60	-1.36	.22	13	2.0	2		24+		6	
Osage	37.7	3.0	74	7	11	22	25	1.04	-.66	.38	24	3.2	3		24		5	
DIVISION	39.1	4.0						.51	-1.24			1.4						
NORTHEAST DIVISION																		
Cascade	39.4		72	7	13	22+	20	.62		.32	24	2.8	2		24+		2	
Cresco	37.7	3.5	72	7+	12	22	23	1.17	-.68	.58	12	4.0	4		24		2	
Decorah 2 S	36.4	2.5	72	7	8	22	25	.66	-1.36	.29	24	3.7	4		24		5	
Dubuque Lock & Dam 11	39.0	.9	68	7	15	22	20	.91	-.94	.55	13	2.0	2		24+		4	
Dubuque WB City	40.7	2.6	72	7	16	22	14	.83	-1.02	.46	12	3.6	2		24+		4	
Elkader	36.0	2.4	77	7	9	22	25	.82	-1.08	.40	24	3.5	T		20		4	
Fayette	37.9	2.8	72	7	10	22	24	.62	-1.39	.32	24	4.5	3		24		4	
Independence 2 W	38.8	2.0	71	7	13	22	26	.60	-1.19	.40	12	2.0	2		24+		2	
New Hampton	34.2	-.8	73	7+	6	22	27	.41	-1.49	.20	12	3.0	3		24		4	
Oelwein	38.9	3.0	72	7	10	26	24	.40	-1.60	.22	24	2.0	T		20		2	
Saratoga 2 E	36.2		73	7	8	3	25	.56		.31	12	2.5					2	
Tripoli	40.1		73	7+	16	22	23	.70		.33	12	2.0					5	
Waterloo	39.5	2.6	73	7	16	22	26	.47	-1.34	.15	12	1.5	T		15		6	
Waukon	37.6	3.4	75	9	11	22+	22	.27	-1.82	.18	12	3.0	3		24		2	
DIVISION	38.2	2.5						.65	-1.26			2.9						
WEST CENTRAL DIVISION																		
Carroll	42.9	6.1	76	7	16	21	18	.07	-1.44	.07	24	.0					1	
Castana 4 E	43.2		76	7	18	18+	16	.05		.05	24	T					1	
Cushing 3 NE	42.5	6.1	74	7+	18	18	15	.03	-1.32	.03	24	T					1	
Denison 1 S	42.1	4.8	72	7+	18	3+	17	.00	-1.41			.0					2	
Guthrie Center	42.5	4.1	73	7	18	22	18	.67	-.95	.63	12	.0					1	
Harlan	42.8	5.6	74	7	15	22	18	T	-1.46		11+	.0						
Ida Grove 4 S	42.4M	5.9	75	7+	16	22												
Jefferson	42.5	5.0	74	7	19	22	19	.18	-1.35	.14	24	.0					2	
Lake City	41.6	4.7	76	7	17	22	20	.00	-1.55			.0						
Logan	43.4	5.0	73	7	16	18	19	T	-1.52		21+	T						
Mapleton 5 NW	42.1	5.3	76	7	17	5+	20	.00	-1.40			.0						
Missouri Valley	46.3	7.5	78	7	18	18	14	.08	-1.32	.05	21	.2	T		21		2	
Onawa	43.5	5.4	79	7	16	18	19	.01	-1.41	.01	23	T					1	
Rockwell City	41.2	4.3	76	7	17	22	19	.08	-1.63	.08	24	T					1	
Sac City	42.6	6.2	78	7	19	22	17	.02	-1.45	.02	24	T					1	
Sioux City WB Airport	42.3	6.3	74	7	18	18	23	.04	-1.07	.04	23	T					1	
DIVISION	42.7	5.4						.08	-1.39			T						
CENTRAL DIVISION																		
Ames 3 SW	41.6	4.0	73	7	16	22	17	.54	-.97	.34	12	T	T		24		3	
Boone	41.9M	3.9	74	7	19	21						.1	T		24		4	
Des Moines WB Airport	42.6	4.8	73	7	18	21+	16	.57	-1.01	.41	11	T	T		21+		5	
Des Moines WB City	43.5	4.0	75	7	20	22	15	.55	-1.03	.32	11	T	T		21+		5	
Fort Dodge	41.8	5.6	75	9	18	22	17	.25	-1.41	.11	24	T	T		21+		5	
Grinnell	41.7	3.2	73	7	15	22	20	.88	-1.06	.73	13	T	T		16+		4	
Grundy Center 4 NE	40.5	3.4	74	7	13	22	24	.53	-1.36	.25	12	T	T		21+		6	
Iowa Falls 1 N	39.9	4.3	75	10	12	22	24	.65	-1.13	.28	12	1.5	1		24+		4	
Marshalltown	41.4		73	7	16	22	19	.78		.46	12	.2	T		20		4	
Newton	42.8	3.8	74	7	19	22		.38	-1.47	.20	12	T					2	

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
NOVEMBER 1949

Table 2-Continued

Station	Temperature								Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days			
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more	
Perry 2 SE	41.8	3.9	74	7	18	22		22	.74	-.87	.55	12	T				3	1	
State Center	41.5	3.5	73	7	16	22		18	.52	-1.37	.25	12	T	T	24		3	1	
Toledo	42.7	4.4	75	7+	17	22		17	.73	-1.23	.18	13	T	T	25		7	1	
Waukeo	44.2	5.7	75	7	18	22		17	.61	-.97	.47	12	T				2	1	
Webster City	40.4	4.2	75	7	16	5+		23	.59	-1.11	.36	12	T				4	1	
Woodward 7 N	43.4M	5.5	75	7	19	22													
DIVISION	42.0	4.2							.59	-1.16				.1					
EAST CENTRAL DIVISION																			
Anamosa 1 NW	39.7	2.9	71	7	10	22		24	.58	-1.22	.30	12					4	1	
Belle Plaine	41.4	3.6	74	7	15	22		21	1.27	-.86	.91	12		T	21+		5	1	
Bellevue Lock & Dam 12	40.3	1.6	71	7	12	22		18	.98	-1.02	.56	13		T	24		4	2	
Cedar Rapids No. 1	41.6	3.6	73	7	16	22		18	1.14	-.61	.74	13		T	24+		6	1	
Clinton No. 1	42.0	2.5	73	9+	16	22		18	.65	-1.51	.32	12		T	20+		6	1	
Davenport WB City	42.7	2.5	72	7	20	22		11	.59	-1.38	.35	12		T	20+		3	1	
Iowa City AP CAA	40.8	2.4	73	7	15	22		22	1.13	-.86	.69	12		T	24+		4	2	
La Claire Lock & Dam 14	42.7		69	7+	18	22		13	.80	-1.34	.61	13		T	24+		4	1	
Maquoketa 5 E	40.5	3.4	71	7	13	22		20	1.22	-.78	.84	12		2	24+		3	1	
Monmouth 4 SW	39.1	1.2	72	7+	11	22		24	.60	-1.30	.34	12		1	24		3	1	
Muscatine No. 1	43.1	3.6	74	7	17	22		14	.80	-1.30	.49	12		T	24+		4	1	
Tipton	42.1	3.9	73	7	16	22		19	1.01	-.84	.82	12		2	24		3	1	
Vinton	41.2M	4.0	72	7+	16	22			.70	-1.10	.60	13		T			2	1	
Williamsburg	42.1	3.6	75	7	15	22		19	.47	-1.53	.23	12		1.5			4		
DIVISION	41.4	3.2							.85	-1.10				.9					
SOUTHWEST DIVISION																			
Atlantic 1 E	43.2	4.8	75	10	15	22		20	.10	-1.59	.06	12					2		
Atlantic AP CAA	40.5	2.1	73	7	14	3		24	.03	-1.66	.02	23		T			2		
Bedford 1 N	44.8	5.1	73	7	17	22		16	.65	-1.22	.65	12					1	1	
Clarinda	43.9	4.1	73	7+	15	3+		19	.59	-1.13	.52	12					2	1	
Corning 1 W	43.2	4.1	72	7	14	3		20	.70	-.91	.70	12					1	1	
Council Bluffs 5 NE	44.5		76	7	16	18		21	.07		.07	24		T			1		
Glenwood 2 E	44.4	4.8	75	7	16	18		17	.04	-1.37	.04	24					1		
Greenfield	43.1M	4.2	72	7	16	22													
Norwich 2 E SCS Farm	44.0	4.5	74	7	15	18+		19	.96	-.79	.96	12		T	21		1	1	
Oakland 2 E	42.7	4.2	78	12	13	18		24	.04	-1.41	.04	24		T			1		
Red Oak	42.7	3.5	75	7	15	3+		22	.41	-1.04	.41	12		T			1	1	
Shenandoah	45.7	5.7	76	7	18	3		15	.02	-1.73	.02	24		T	21		1		
Sidney	47.9		76	7	19	18		10	T			21		T					
DIVISION	43.9	4.7							.30	-1.31				T					
SOUTH CENTRAL DIVISION																			
Afton	44.3M	4.7																	
Albia	44.6	4.8	75	11	18	22		12	1.07	-.76	.95	13		T	T	25	4	1	
Centerville	44.9	4.1	76	11	15	22		15	.73	-1.26	.73	12		T			1	1	
Chariton 3 E	44.2	4.2	75	19	14	22		17	.66	-1.07	.46	13		T			2	1	
Creston	42.1	3.7	71	7	15	22		19	1.11	-.62	.64	13		.0			3	2	
Indianola	44.4	4.7	76	6+	18	22		14	.49	-1.30	.40	12		.0			3	1	
Knoxville 2 W	44.0	3.9	74	7	18	22		17	.49	-1.38	.41	12		T	T	24	2	1	
Lamoni	43.7	3.6	72	11	17	22		18	1.13	-.67	1.01	12		T			2	1	1
Millerton	44.5	4.1	75	19	14	22		19	.61	-1.26	.44	12		T			3	1	
Mount Ayr 2 N	44.3	4.3	73	7	15	22		18											
Osceola	44.4	4.4	73	6+	17	22		15	.73	-1.07	.71	12		.0			2	1	
Tingley	41.3	1.7	74	7	10	22		25	.64	-1.26	.64	12		T	T	2	1	1	
Winterset	45.1	5.4	76	7	17	22		15	.79	-.90	.75	12		T			2	1	
DIVISION	44.0	4.1							.77	-1.06				T					
SOUTHWEST DIVISION																			
Bloomfield 2 N	48.0M	7.5	74	9+															
Burlington WB Airport	43.1	3.5	76	11	16	22		19	.47	-1.68	.28	12		.2	T	24+	4	1	
Columbus Junction	43.9	4.0	74	11	17	22		16	.76	-1.29	.60	12		.2	T	24+	3	1	
Fairfield	42.4	2.5	74	11	16	21		18	.73	-1.17	.55	12		T	T	20+	3	1	
Keokuk Lock & Dam 19	43.6	1.2	73	12	22	22		14	.84	-1.23	.54	13		T	T	21+	4	1	
Keosauqua State Park	44.1M	2.7			18	22			.45	-1.60	.37	14		T			2	1	
Mount Pleasant	44.8	4.2	76	11	15	22		14	.70	-1.38	.48	12		T	T	24	3	1	
Oakaloosa	43.8	4.3	73	9+	16	22		18	1.15	-.75	.91	13		T	T	25	4	1	
Ottumwa AP CAA	43.4	2.4	73	9+	18	22		17	.99	-.85	.84	12		T	T	24	3	1	
Sigourney	43.9	4.3	74	7	18	22		18	.75	-1.15	.56	13		T			3	1	
Washington	43.6	4.1	76	11	16	22		16	.49	-1.45	.31	13		T			4	1	
DIVISION	44.1	3.8							.73	-1.25				T					
STATE	41.7	4.3							.49	-1.23				.6					

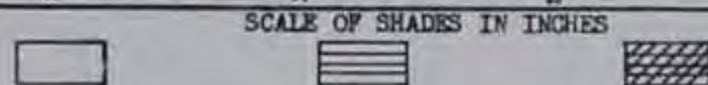
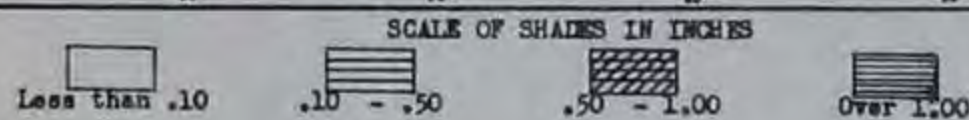
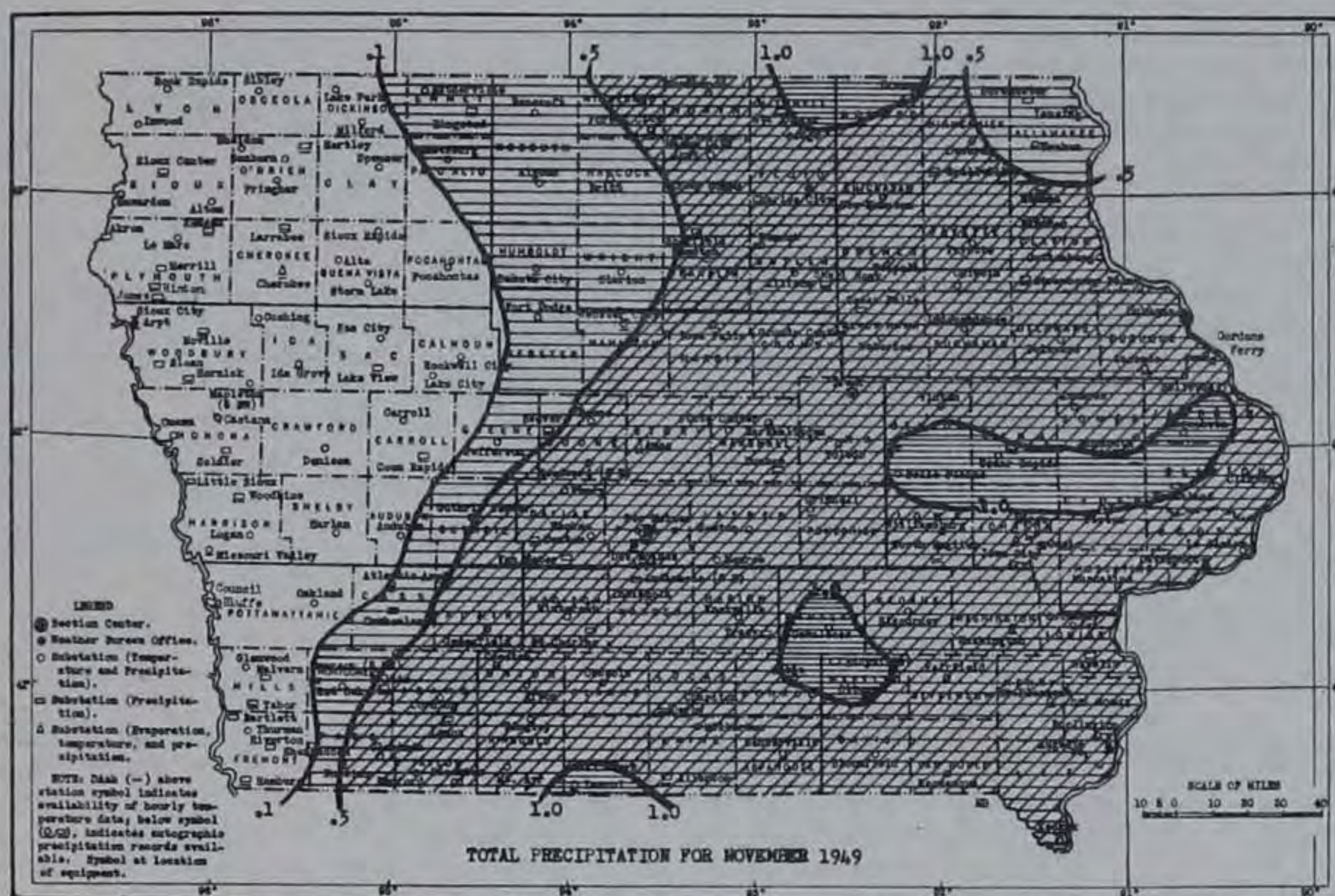
See reference notes following Station Index.

DAILY PRECIPITATION

1094
NOVEMBER 1949

Table 3

Station	Day of month																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Afton												.63																						.63	
Akron												.02																						.02	
Albia			T									.05	.95	.05																				1.07	
Algona												.08	.02																					.21	
Allerton R												.10	.21																					.31	
Allison																																			.68
Alta												.24		T	T	.10																		.00	
Alton												.03																						.05	
Ames 3 SW Z												.34	.05			T																		.84	
Anamosa 1 NW			T									.30	.02	T																				.58	
Atlantic 1 E												.06																						.10	
Atlantic AP CAA Z //												.01																						.03	
Audubon 2 S																																			.63
Augusta													.48																					.25	
Bancroft												.01	.09	T							.07													.07	
Bartlett 3 E																																			.04
Beaver R												.14	.04																					.65	
Bedford 1 N												.65																							1.27
Belle Plain			T									.91	.20	T		.01	T																	.98	
Bellevue L & D 12 Z												.56			T	T	.03	T																.65	
Blockton 2 S												.65																							.65
Bloomfield 2 N												1.20	.14																						.30
Boone												.38	.05																						.30
Boone												.20																							.47
Britt												.28	.05																						.47
Burlington WB AP Z //			T																																.07
Carroll												.30		T		T	T																	.07	
Cascade Z			T																																.32
Castana 4 E																																			.05
Cedar Falls												.28	T	T	.12																			.38	
Cedar Rapids No. 1			T	T								.17	.74	.02	T	T	.04	T																1.14	
Cedar Rapids No. 2			T	T								.22	.63	.06	T	T	.04	T																1.10	
Centerville Z												.73																						.73	
Chariton 3 E												.20	.46																					.66	
Charles City Z			T									.39		.01		.05	T																	.75	
Cherokee Z														T																					.75
Clarence												.49																							.73
Clarinda												.52	.07																						.59
Clarion												.25	T		T																				.35
Clinton No. 1												.32	.10	.01		.05	T	T																.65	
Clinton No. 2												.42	T		.02																				.59
Columbus Junction												.60	.10																						.76
Coon Rapids R												.02																							.11
Corning 1 W												.70																							.70
Council Bluffs 6 NE R																																			.07
Council Bluffs 5 NE																																			.07
Cresco												.58	.15																						1.17
Creston												.46	.64																						1.11
Cumberland 5 NW												.06																							.06
Cushing 3 NE																																			.03
Dakota City Z			T									.08	.05																						.23
Davenport WB City Z			T									.35	.04		T	T	T	T																.59	
Decorah 2 S												.03	.18			.06	T	T																.66	
Delaware 2 W																																			.06
Denison 1 S												.25	.57																						.82
Derby R																																			.57
Des Moines WB AP Z			T									.41	.08	.04																				.55	
Des Moines WB City Z			T									.32	.12	.08																					1.00
Dexter R												.14	.86																						.42
Donnellson 4 N												.28	.08																						.91
Dubuque L & D 11				T																															.83
Dubuque WB City Z			T									.46		.02	T	.05	T																	.44	
Dumont 4 NW			T									.19	.13																						.66
Dunbar 2 NE			T									.23	.19																						.87
Eddyville												.15	.55	.17																				.57	
Eldora												.20	.11	.05																					.82
Elkader												.34		.03																					.15
Emerson 5 NE												.11	.04																						.20
Emmetsburg												.20																							.19
Estherville			T	T																															.73
Fairfield												.13	.55	.05																					.62
Fayette			T											.01	T																				.63
Forest City Z												.17	.19		T																				.25
Fort Dodge				T								.09	.03	.01	T																				.04
Gleason 2 E																																			



DAILY TEMPERATURES

IOWA
NOVEMBER 1949

Table 5-Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
DENISON 1S	MAX MIN	64 38	55 30	58 18	55 35	49 19	68 34	72 35	64 29	65 48	72 39	66 38	53 39	60 32	49 35	44 25	41 25	46 18	65 36	53 29	30 20	52 19	40 25	42 27	38 23	59 33	49 26	59 36	54 34	51 27	54.0 30.1	
DES MOINES WB APT	MAX MIN	66 37	50 24	54 22	49 32	50 21	69 35	73 39	70 40	68 50	72 47	71 48	57 43	60 34	45 33	42 30	40 29	43 26	66 39	44 30	31 18	48 18	39 29	38 24	32 22	60 26	40 27	61 34	55 36	52 34	53.2 31.9	
DES MOINES WB CITY	MAX MIN	67 37	50 28	55 25	51 31	51 24	70 36	75 35	70 38	69 50	72 46	71 47	57 43	61 35	46 36	42 31	41 28	44 28	67 40	45 30	31 21	50 20	42 29	41 25	33 23	60 28	40 28	61 33	56 41	53 36	54.1 32.9	
DUBUQUE L AND D 11	MAX MIN	56 30	55 33	40 22	41 33	47 24	58 31	68 31	58 36	64 44	61 44	53 40	56 48	54 40	46 36	42 33	37 30	43 31	57 29	53 33	30 24	43 15	37 28	32 22	31 22	42 28	39 27	50 32	45 27	47.1 30.9		
DUBUQUE WB CITY	MAX MIN	61 32	50 30	43 25	45 33	51 26	67 36	72 34	67 40	69 45	55 46	48 42	55 45	48 40	37 34	38 30	39 34	38 31	62 36	42 29	29 18	44 16	38 30	33 27	29 25	42 24	39 26	51 34	54 34	45 34	49.1 32.3	
ELKADER	MAX MIN	65 22	56 31	45 15	48 25	53 13	70 26	77 21	71 27	69 33	72 29	52 38	56 47	53 33	40 34	41 27	40 31	33 28	64 30	50 28	34 17	43 9	30 25	33 24	32 22	42 10	44 17	51 29	52 21	45 29	50.5 25.8	
EMMETSBURG	MAX MIN	63 37	53 31	59 21	50 33	55 19	69 38	77 32	65 35	65 37	77 37	62 41	53 41	53 32	44 27	47 31	40 27	45 25	63 36	47 25	29 21	53 16	45 19	33 25	31 19	53 21	42 27	60 33	54 33	52 30	52.3 29.4	
ESTHERVILLE	MAX MIN	63 38	51 24	60 21	52 26	56 18	71 38	75 36	65 31	65 40	77 42	57 35	45 28	52 33	42 34	48 28	42 25	45 25	62 40	42 25	29 19	54 19	40 22	37 24	32 20	50 24	43 26	60 35	53 33	50 30	51.9 29.0	
FAIRFIELD	MAX MIN	66 33	39 20	49 25	55 21	50 21	69 35	71 43	69 44	72 48	74 48	60 49	62 36	54 34	44 30	44 31	42 32	42 32	69 39	44 23	31 16	47 20	40 31	39 21	32 27	55 27	40 27	60 37	58 33	51 32	53.3 31.5	
FAYETTE	MAX MIN	63 28	54 32	44 14	44 29	48 14	67 30	72 24	65 41	65 38	70 41	58 32	54 48	55 34	45 30	38 24	40 32	36 28	62 34	50 30	42 20	34 10	31 24	29 24	41 22	37 16	51 17	50 30	44 27	48.5 27.2		
FOREST CITY	MAX MIN	61 34	52 25	54 17	40 22	50 16	66 22	75 27	65 38	65 45	75 34	54 38	50 43	51 26	42 25	44 24	40 25	38 25	42 30	62 26	39 11	27 11	48 22	35 21	34 18	31 17	46 25	39 30	59 30	46 26	49.4 26.2	
FORT DODGE	MAX MIN	63 37	55 28	57 23	51 34	50 19	67 37	74 35	64 32	75 47	72 39	65 40	53 43	53 32	46 35	46 27	41 33	39 27	44 25	65 38	47 28	29 20	52 18	46 23	35 25	33 22	55 24	41 28	61 35	53 36	51 30	52.8 30.7
GLENWOOD 2E	MAX MIN	69 37	57 28	62 19	59 32	52 19	73 33	75 34	71 36	68 47	70 38	71 39	54 46	66 29	54 31	49 25	46 28	48 16	50 40	71 33	53 20	37 18	54 30	44 33	44 21	50 31	64 34	54 27	64 42	57 32	57 28	58.0 30.8
GREENFIELD	MAX MIN					50 21	70 31	72 37	69 37	68 46	69 44	69 41	60 34	61 35	52 33	49 26	46 27	52 24	59 29	67 31	57 18	37 16	48 26	39 21	45 26	40 24	61 26	45 24	62 33	55 32	51 28	55.9 30.3
GRINHELL	MAX MIN	66 29	52 30	50 16	50 33	54 22	67 30	73 34	67 42	69 45	70 54	69 46	58 45	52 33	45 32	41 28	40 29	41 29	65 35	50 33	37 20	46 15	39 28	35 23	33 20	56 24	37 25	59 31	56 32	51 29	52.6 30.7	
GRUNDY CENTER ANE	MAX MIN	67 29	60 20	52 18	48 27	52 20	68 24	74 33	67 31	67 45	73 42	60 41	56 42	52 33	46 30	40 25	38 29	43 32	66 32	47 18	35 13	46 24	38 25	35 22	31 22	55 23	46 23	61 33	55 31	51 31	52.6 28.3	
GUTHRIE CENTER	MAX MIN	65 38	52 30	55 21	50 32	50 21	71 36	73 41	68 36	68 49	72 43	68 42	57 31	60 34	46 27	43 30	41 23	44 21	66 39	55 28	34 20	44 18	42 26	36 19	60 20	46 22	61 24	55 34	53 30	54.5 30.4		
HAMPTON	MAX MIN	63 35	54 29	52 22	46 24	50 22	68 37	73 38	65 34	65 46	73 41	57 41	54 44	52 33	44 34	45 30	40 30	37 28	40 36	64 29	51 17	35 17	45 24	40 26	30 24	50 23	40 23	60 31	52 25	48 30	50.9 30.3	
HARLAN	MAX MIN	65 34	57 33	58 17	52 37	50 19	70 29	74 33	73 32	66 44	73 37	60 44	60 44	62 29	52 35	47 25	41 29	41 28	45 17	68 33	57 31	37 24	52 15	43 27	45 30	42 21	60 30	50 28	60 35	55 29	53 29	55.5 30.1
HAWARDEN	MAX MIN	63 39	50 26	67 22	54 30	60 23	69 30	70 29	65 25	67 37	77 37	62 38	53 36	58 35	48 38	45 25	39 32	55 25	43 20	55 28	43 20	37 21	57 26	43 25	42 21	47 30	56 25	54 35	62 36	54 30	56 30	55.3 29.1
IDA GROVE 4S	MAX MIN					52 21	70 33	75 38	66 31	66 42	66 43	58 42	61 43	50 34	48 34	43 25	42 32	46 24	65 38	50 26	33 18	53 16	45 22	41 26	41 22	58 31	50 24	61 37	54 35	52 29	54.7 30.0	
INDEPENDENCE 2W	MAX MIN	64 26	54 29	45 17	43 29	50 21	65 29	71 32	66 30	67 41	70 41	59 43	59 46	52 30	46 29	41 28	39 24	38 27	63 30	55 27	32 19	44 13	36 23	33 23	31 21	46 21	41 20	55 28	51 27	45 26	50.0 27.6	
INDIANOLA	MAX MIN	71 34	56 34	55 20	53 39	54 21	76 34	76 40	72 39	71 48	72 46	63 44	63 45	53 30	48 30	43 35	44 29	44 25	70 38	54 34	39 23	48 18	43 28	40 28	36 22	62 22	51 24	61 33	59 35	54 29	56.8 32.0	
INWOOD 2W	MAX MIN	62 38	51 28	56 19	51 33	60 18	70 34	69 36	62 27	65 40	74 40	56 41	54 41	56 32	45 31	47 21	42 34	39 19	54 16	62 37	48 25	33 19	56 19	40 25	39 17	41 33	54 24	52 33	60 26	53 24	54 24	53.5 28.5
IOWA CITY AP CAA	MAX MIN	64 29	51 27	47 20	49 31	50 22	65 32	73 27	68 32	72 41	72 44	66 39	60 45	53 34	51 32	42 28	40 28	39 33	40 34	65 32	42 17	32 15	46 29	36 27	32 23	52 26	40 28	57 30	56 30	49 28	51.6 29.9	
IOWA FALLS 1N	MAX MIN	65 32	53 23	53 18	46 29	49 18	67 39	74 30	67 32	67 44	75 35	67 40	57 42	57 30	45 27	44 26	42 30	37 27	45 26	64 34	29 14	47 12	40 23	35 22	31 20	50 21	38 25	58 31	51 28	48 28	51.8 27.9	
JEFFERSON	MAX MIN	65 37	56 30	56 22	48 34	51 21	69 37	74 33	66 32	67 46	72 39	61 42	58 44	62 31	49 36	47 27	41 31	45 28	67 39	55 30	35 22	51 19	42 25	40 29	35 21	59 27	42 26	61 30	55 35	52 29	54.1 30.8	
KEOKUK L D 19	MAX MIN	43 25	62 36	43 26	48 26	52 30	65 32	65 36	68 43	68 47	71 53	72 53	63 42	64 39	57 33	46 33	46 38	43 33	43 33	43 31	46 27	33 22	47 24	42 32	44 27	36 28	52 30	41 31	61 38	59 35	52.7 34.4	
KEOSAUQUA STATE PK	MAX MIN	67 31	59 35	52 24	56 39	54 23	72 35	74 43	73 45	75 48					45 30	45 33	43 34	44 32	71 36	62 38	39 24	49 16	42 32	41 32	34 23	58 27	53 30	63 34	60 39	51 35	55.3 32.8	
KNOXVILLE 2W	MAX MIN	68 34	50 24	53 22	52 37	52 22	71 25	74 40	71 42	71 51	71 48	65 46	60 35	52 32	45 28	42 32	42 31	44 29	68 38	60 35	41 24	49 18	44 30	40 27	34 22	60 25	49 23	60 34	57 36	52 32	55.6 32.4	
LAKE CITY	MAX MIN	64 36	54 26	58 19	48 30	52 19	68 36	76 37	65 31	68 44	73 40	65 41	55 41	60 31	48 34	46 24	41 30	39 20	46 39	65 26	52 19	33 17	52 22	42 26	40 21	37 26	58 24	45 31	61 34	54 28	53.9 29.2	
LAKE PARK	MAX MIN	61 38	53 26	59 20	56 35	53 20	67 36	68 37	61 30	62 40	71 42	65 40	52 41	52 32	43 30	45 25	40 32	37 23	45 22	59 37	50 25	29 18	51 18	48 23	36 22	49 19	45 25	57 34	51 32	48 28	51.5 29.2	
LAMONI	MAX MIN	69 33	50 29	53 18	56 36	50 22	70 32	71 36	71 39	71 45	71 49	72 47	63 44	64 33	54 35	42 25	45 29	45 31	43 20	70 35	51 33	41 20	49 17	43 30	41 28	42 20	63 25	48 28	67 32	57 32	54 30	56.2 31.1
LE CLAIRE L D 14	MAX																															

DAILY TEMPERATURES

IOWA
NOVEMBER 1949

Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MASON CITY 3N	MAX MIN	62 35	50 22	52 20	44 26	49 19	67 33	73 30	65 31	65 44	73 37	54 38	51 43	51 31	43 32	43 28	39 28	36 28	41 27	62 34	39 27	28 12	45 14	32 23	30 23	30 20	46 22	40 25	59 28	51 29	46 28	48.9 27.9	
MASON CITY AP CAA	MAX MIN	63 38	44 20	52 20	42 22	49 19	65 34	73 32	63 32	64 38	72 35	53 38	50 41	52 33	43 33	43 26	39 26	36 28	41 27	61 32	36 24	24 13	46 16	32 23	30 19	30 20	45 24	38 25	58 28	50 30	45 28	48.0 27.4	
MILFORD 4NW	MAX MIN	61 37	50 24	60 17	48 30	55 20	68 35	70 33	61 32	64 40	75 41	57 45	50 39	52 31	44 30	45 25	41 27	36 23	45 30	61 37	42 23	30 19	53 18	37 21	36 17	33 20	50 17	44 25	60 33	52 29	46 27	51.0 28.2	
MILLERTON	MAX MIN	70 31	59 33	54 20	65 38	52 22	72 32	73 39	72 41	72 48	73 48	74 46	66 41	62 33	54 38	46 28	43 28	43 29	44 26	75 24	71 33	42 24	44 14	44 29	41 29	37 18	62 21	55 24	65 31	58 31	54 28	58.1 30.8	
MISSOURI VALLEY	MAX MIN	70 40	57 35	86 23	60 35	55 20	77 37	78 45	70 32	77 47	71 40	54 45	67 42	56 34	53 25	45 26	49 36	53 27	73 18	52 41	37 28	60 23	49 27	43 30	49 24	66 35	55 30	62 42	61 33	59 29	59.8 32.7		
MONMOUTH 4SW	MAX MIN	59 24	52 30	44 16	46 31	51 26	66 25	72 28	67 34	69 41	72 49	64 42	63 47	56 33	49 29	40 28	40 23	40 23	37 31	62 29	58 20	32 19	43 11	39 25	34 17	41 17	42 20	64 25	55 27	66 27	57 27	54 27	50.8 27.4
MOUNT AYE 2N	MAX MIN	69 36	50 30	55 17	56 36	52 21	71 29	73 38	71 40	71 48	71 50	72 46	63 43	65 32	54 36	48 26	45 30	45 29	44 20	71 34	54 35	40 22	50 15	42 31	41 27	42 20	64 27	55 28	66 38	57 31	54 31	57.0 31.5	
MOUNT PLEASANT	MAX MIN	65 29	58 35	51 21	54 37	51 20	70 33	73 33	71 42	74 50	75 52	78 50	68 53	60 37	45 34	44 30	42 29	42 34	69 32	59 34	39 24	47 16	41 30	38 29	34 22	55 28	60 30	61 32	58 37	51 33	56.1 33.4		
MUSCATINE NO 1	MAX MIN	64 30	53 36	47 21	51 36	51 23	66 34	74 32	68 41	72 48	72 52	68 43	61 52	55 37	54 33	41 29	42 33	41 33	39 32	63 35	54 34	37 25	45 17	42 30	37 31	32 23	52 26	45 27	58 33	57 35	51 32	53.1 33.1	
NEW HAMPTON	MAX MIN	62 23	49 15	46 8	42 21	50 12	67 22	73 25	67 26	65 39	73 31	50 36	52 36	52 26	43 26	40 23	38 18	36 24	37 22	37 22	44 10	30 6	43 16	34 16	29 15	29 16	41 15	37 24	54 24	49 24	43 25	47.1 21.3	
NEWTON	MAX MIN	67 33	55 30	51 21	51 33	55 24	67 38	74 39	67 48	69 48	71 49	70 47	57 43	55 33	50 34	45 29	43 32	41 30	42 29	65 33	53 35	46 19	40 26	37 21	33 26	35 21	46 24	58 27	55 31	51 34	51 30	53.5 32.1	
NORTHWOOD	MAX MIN	58 32	52 28	52 19	45 32	49 20	66 35	74 34	65 33	62 41	73 36	58 49	48 41	49 31	41 33	42 29	37 27	36 28	39 25	61 32	45 11	29 14	45 21	38 22	27 20	28 20	42 20	58 28	51 30	42 30	48.7 28.2		
NORWICH 2E SCS FARM	MAX MIN	69 33	55 31	59 16	58 36	50 20	70 27	74 33	71 35	70 45	70 38	63 42	65 41	64 31	53 35	48 26	44 31	46 27	47 15	71 31	51 31	39 22	51 15	44 30	44 32	46 22	65 26	49 27	65 34	57 32	62 41	57.7 30.2	
OAKLAND 2E	MAX MIN	68 36	52 31	59 15	55 31	51 16	72 30	75 29	69 30	66 45	71 36	70 44	78 44	65 27	53 32	49 20	45 25	45 28	46 13	70 32	54 30	33 20	52 14	42 23	43 28	45 17	63 28	51 25	63 36	57 31	55 28	57.2 28.1	
OELWEIN	MAX MIN	62 30	50 30	44 18	43 30	50 20	64 31	72 31	68 32	65 47	68 44	58 42	52 45	48 35	40 32	40 31	38 27	37 31	61 30	46 34	30 20	42 15	35 25	32 26	28 15	44 10	38 22	53 32	50 31	43 30	48.5 29.2		
ONAWA	MAX MIN	67 37	55 30	65 20	57 34	56 17	73 32	79 35	67 28	68 42	74 38	71 37	57 33	63 29	54 36	51 25	47 33	45 24	52 16	69 35	49 26	37 22	60 20	44 21	45 29	47 19	62 31	54 28	62 33	58 32	58 25	58.2 28.8	
OSAGE	MAX MIN	61 27	56 35	49 12	48 31	50 15	65 30	74 29	64 31	64 42	70 34	61 37	52 40	51 28	43 30	42 27	39 22	36 26	38 24	61 28	53 25	36 13	45 11	43 20	31 20	29 19	41 16	56 24	50 26	47 27	49.7 25.6		
OSCEOLA	MAX MIN	68 38	55 31	55 22	54 38	52 24	73 34	73 37	72 40	71 47	70 50	72 46	63 43	63 34	53 36	48 27	43 30	43 23	44 20	70 36	60 33	49 17	42 28	42 29	21 21	24 24	26 26	34 34	34 31	51 31	55.9 31.7		
OSKALOOSA	MAX MIN	69 30	57 31	51 18	53 36	56 19	71 38	72 39	71 44	73 39	73 52	62 46	61 35	53 34	49 29	41 31	41 31	47 25	72 36	62 21	43 16	48 30	38 28	38 19	34 27	59 27	45 27	61 32	57 35	51 31	55.9 31.7		
OTTUMWA AP CAA	MAX MIN	66 32	52 25	50 23	53 30	50 23	70 35	71 39	70 45	70 47	73 53	61 47	60 45	53 36	44 30	41 32	41 32	42 32	67 40	46 32	32 19	47 18	40 31	39 24	34 22	59 28	38 29	60 34	55 36	53 35	53.7 33.0		
PERRY 2SE	MAX MIN	66 36	56 29	56 20	48 35	52 19	69 32	74 31	67 28	68 37	72 38	68 40	57 43	60 32	49 32	46 27	41 28	41 23	44 23	66 35	56 31	38 23	50 18	40 25	40 28	31 20	60 24	45 25	60 27	55 33	53 30	54.3 29.2	
POCAHONTAS 2SE	MAX MIN	64 39	53 20	59 21	52 30	52 17	69 38	77 34	65 30	67 39	75 39	66 40	54 33	52 29	46 30	42 25	38 33	38 26	56 22	64 38	50 26	42 11	57 20	52 25	38 18	37 25	55 26	42 18	57 27	52 31	51 29	54.5 28.1	
PRIMGHAR	MAX MIN	64 39	51 27	60 21	62 31	55 24	69 33	68 38	66 37	64 43	76 45	75 44	60 40	59 31	49 23	50 32	42 22	46 20	62 38	58 27	37 15	52 18	51 27	38 24	37 22	57 29	49 23	59 37	61 37	58 24	56.4 29.6		
RED OAK	MAX MIN	69 36	55 20	59 15	57 28	51 16	71 29	75 30	71 34	68 46	71 36	71 43	55 44	65 29	54 33	44 22	45 27	46 31	46 16	71 32	54 18	38 15	52 32	44 15	43 28	45 18	65 31	50 28	65 36	57 28	55 22	57.1 26.3	
ROCK RAPIDS	MAX MIN	62 39	52 27	64 21	47 25	58 17	70 27	69 30	62 27	65 36	74 35	57 40	52 42	54 33	44 33	46 25	43 33	38 18	54 30	46 28	32 20	43 17	38 28	31 20	52 17	40 25	48 24	38 26	51 23	59 34	52 26	53.0 28.0	
ROCKWELL CITY	MAX MIN	65 36	54 27	57 21	48 31	51 20	76 35	64 33	67 41	73 39	65 42	54 39	54 42	59 33	49 33	48 24	40 31	45 25	66 38	47 27	31 20	52 17	40 22	38 25	31 20	58 25	42 23	61 31	55 33	51 28	53.2 29.1		
SAC CITY	MAX MIN	63 40	53 27	60 22	49 30	54 22	69 39	78 40	68 35	68 47	77 42	68 40	55 40	60 34	48 34	46 26	41 32	39 25	45 22	64 40	44 28	31 20	53 19	42 24	40 25	40 22	57 27	48 26	60 34	53 35	52 29	54.2 30.9	
SANBORN	MAX MIN	60 39	50 27	61 19	52 30	53 22	66 35	65 38	60 33	64 42	73 45	62 41	52 38	53 32	43 23	45 22	40 21	38 20	47 37	61 26	45 16	29 18	52 27	43 24	37 21	35 29	51 29	49 23	58 37	51 30	48 25	51.4 29.1	
SARATOGA 2E	MAX MIN	62 29	53 28	45 8	43 30	48 12	65 31	73 26	63 30	63 42	70 34	49 34	51 43	50 32	41 33	38 30	39 25	35 29	37 27	59 30	45 28	30 16	41 10	35 21	28 20	28 12	38 20	52 15	50 29	51 30	52.4 27.9		
SHELDON	MAX MIN	61 37	50 27	62 17	50 30	56 17	67 28	67 32	62 30	67 37	76 39	61 44	51 38	54 31	44 33	46 25	42 27	38 17	50 33	61 28	46 16	30 15	53 28	40 23	38 20	50 28	65 22	57 36	66 31	58 26	58 22	59.0 32.4	
SHENANDOAH	MAX MIN	70 38	54 31	61 18	60 39	54 20	74 30	76 32	68 34	71 49	73 37	63 40	66 44	54 37	49 34	45 29	47 34	49 20	72 40	55 34	39 26	55 20	39 33	55 31	46 25	46 31	50 25	65 32	57 31	66 41	58 29	51.7 27.1	
SIBLEY	MAX MIN	61 37	54 26	61 16	57 34	53 16	63 23	65 28	60 31	65 39	72 34	55 42	55 41	53 25	42 34	42 24	39 30	47 21	58 20	53 30	32 25	52 16	48 19	39 27	35 23	51 18	46 21	52 33	47 28	51.7 27.1			
SIDNEY	MAX MIN	70 41	60 35	61 25	61 42	56 25	73 39	76 42	73 43	71 49	71 																						

DAILY TEMPERATURES

IOWA
NOVEMBER 1949

Table 5--Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
YINGLEY	MAX	69	48	56	57	53	73	74	71	71	71	73	66	63	52	47	44	44	44	70	60	31	51	42	41	40	58	44	65	57	55	56.3 26.3
	MIN	29	27	15	32	17	25	29	35	41	44	42	40	28	30	20	24	23	15	30	30	15	10	29	24	12	20	22	29	27	25	
TIPTON	MAX	60	52	47	48	52	66	73	69	71	72	55	63	55	49	48	41	38	38	68	55	34	44	42	36	31	56	44	59	56	49	52.4 31.8
	MIN	26	33	28	34	22	31	37	38	48	52	46	51	31	32	31	28	31	30	33	31	22	16	28	27	18	26	24	31	33	33	
TOLEDO	MAX	67	56	49	47	53	71	75	70	70	75	61	67	53	50	47	42	39	43	67	54	36	47	41	35	31	58	42	62	57	52	53.9 31.5
	MIN	31	31	20	35	21	34	34	34	46	47	44	46	33	34	30	30	32	29	36	32	20	17	28	28	23	25	26	31	35	33	
TRIPOLI	MAX	65	56	47	44	52	67	73	69	67	73	63	55	53	47	42	39	38	39	63	54	32	45	40	32	30	45	41	57	53	46	50.9 29.3
	MIN	24	30	17	32	19	32	30	34	46	38	41	46	32	33	31	26	32	30	33	30	20	16	23	25	23	27	21	31	28	29	
VINTON	MAX	65	55	46	44	40	65	72	68	70	72	59	60	53	47	44	40	38	38	64	60	36	46	37	51.7							
	MIN	29	33	20	34	19	30	28	30	47	40	36	52	36	32	32	34	31	30	34	30	23	16	28								
WASHINGTON	MAX	67	54	51	53	52	70	74	70	72	74	76	62	60	54	44	44	41	42	66	55	38	49	42	38	34	55	41	61	58	51	54.9 32.2
	MIN	30	33	20	35	23	33	35	41	46	54	46	50	36	33	30	28	32	32	35	35	24	16	29	29	22	21	26	29	34	30	
WATERLOO	MAX	65	55	47	44	50	66	73	65	67	68	54	57	52	47	43	38	37	40	63	50	32	44	38	33	30	49	39	57	52	47	50.1 28.8
	MIN	29	29	17	30	19	30	28	29	46	39	38	46	32	32	30	26	30	29	28	28	20	16	24	26	22	26	22	30	30	32	
WAUKEE	MAX	67	56	55	51	51	70	75	70	70	72	71	60	60	52	48	42	41	44	67	58	37	38	41	41	33	60	50	61	56	52	55.0 33.3
	MIN	38	30	24	42	24	36	35	38	50	46	46	45	35	28	30	32	30	28	40	32	26	18	29	28	23	27	28	32	40	40	
WAUKON	MAX	63	50	41	43	50	66	73	62	75	71	54	51	51	45	35	35	35	34	60	47	28	39	33	28	28	37	37	49	51	40	47.0 28.2
	MIN	27	27	22	32	25	32	35	39	41	41	42	44	34	33	30	27	30	25	32	27	16	11	24	23	15	11	13	29	29	31	
WEBSTER CITY	MAX	64	53	55	46	50	67	75	65	66	73	64	54	60	45	45	42	39	42	65	48	32	49	41	36	31	54	38	60	53	49	52.0 28.7
	MIN	34	27	22	30	16	32	27	26	44	35	38	42	31	32	28	31	28	27	33	28	19	16	24	25	20	23	27	31	34	30	
WILLIAMSBURG	MAX	65	54	50	50	52	66	75	67	71	70	66	59	55	51	47	40	40	41	65	54	35	46	40	37	32	52	39	58	55	50	52.7 31.4
	MIN	29	31	20	34	22	33	35	37	44	50	46	47	35	33	30	29	31	30	35	32	23	15	29	26	22	26	26	30	32	30	
WINTERSSET	MAX	71	57	57	56	55	75	76	72	70	74	72	68	63	54	49	44	45	45	71	57	40	51	45	40	38	64	55	65	59	57	58.2 31.9
	MIN	36	32	20	39	21	36	41	38	48	46	45	43	33	36	26	30	27	24	38	33	24	17	27	30	20	24	26	35	33	28	
WOODWARD 7N	MAX	66	56	55	51	57	67	75	65	68	72	66	64	59	48	45	40	39	43	66	57	39	49	44	37	52	55.2 31.6					
	MIN	35	33	22	38	20	33	35	34	50	40	46	44	33	35	28	30	28	23	35	30	24	19	25	28	21						

EVAPORATION AND WIND

Table 6

Station	Day of month																															Total or ave
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ames 3 SW	EVAP	.09	.09	.07	.05	.06	.13	.08	.09	.05	.03	.01	.03	.06	.06	.04	.06	.07	.11	.06	*	.14	.05	*	*	.03	.00	.04	.05	.07	1.68 2460	
	WIND	135	98	70	83	54	67	76	34	71	4	52	76	95	98	82	102	93	104	138	77	90	140	63	86	48	121	82	59	87		75
Cherokee	EVAP	.11	.13	.02	.07	.02	.05	.09	.07	.06	.05	.06	.04	.07	.07	.07	.07	.02	.04	.15	.11	.02	.02	.08	.02	.01	.02	.05	.08	.11	.07	1.85 2708
	WIND	159	103	46	44	82	33	93	82	18	21	11	44	84	110	104	168	90	104	118	114	125	145	76	134	77	169	46	105	124	77	

SOIL TEMPERATURES AT AMES, IOWA, NOVEMBER, 1949

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7 AM	37	40	31	39	31	36	36	37	44	43	46	55	36	35	33	33	32	37	37	32	28	32	33	30	29	32	32	33	33	35.5 40.9 39.9		
	12 M	50	40	39	45	38	48	50	48	53	54	49	46	42	34	37	36	36	47	42	32	32	32	34	32	32	32	37	41	37			
	7 PM	49	35	42	39	38	46	52	49	50	52	54	46	42	38	35	35	34	37	47	39	32	32	34	32	30	33	32	39	39		35	
2 1/4 Inches	7 AM	37	41	32	39	32	36	37	38	43	43	46	52	37	36	34	34	34	33	37	38	33	30	32	34	31	30	32	32	34	33	36.0 41.1 40.7	
	12 M	50	41	39	44	39	48	50	48	52	53	49	46	42	36	38	37	37	45	42	33	32	32	34	32	32	32	38	41	38			
	7 PM	49	37	42	40	39	47	52	50	52	54	46	43	39	37	36	35	38	46	40	33	33	35	33	31	35	33	39	40	36			
4 Inches	7 AM	42	44	36	41	36	38	41	42	45	45	47	52	42	40	38	36	36	35	38	40	36	33	34	35	33	33	34	36	36	38.6 40.6 42.1		
	12 M	44	43	39	44	39	44	46	46	49	50	50	51	45	43	37	38	38	37	42	42	35	33	34	36	33	33	34	36	37			
	7 PM	48	41	44	44	42	48	51	50	52	53	53	49	46	42	39	38	37	39	46	40	35	34	36	35	33	35	35	40	40		38	
8 Inches	7 AM	47	47	42	44	42	42	45	46	48	48	50	52	48	45	42	40	40	39	40	42	40	38	36	37	36	36	36	38	38	42.0 41.8 43.0		
	12 M	45	46	42	44	42	43	45	46	48	48	50	52	47	44	41	40	40	39	40	42	39	38	36	37	36	36	36	38	38			
	7 PM	47	46	44	45	44	46	48	48	50	51	51	48	45	42	41	40	40	44	42	38	37	38	37	36	36	37	38	40	40			
20 Inches	7 AM	52	50	50	49	48	48	48	48	50	50	50	51	51	50	49	48	46	46	46	46	46	46	45	44	43	43	42	42	42	42	46.9 47.1 46.6	
	12 M	51	50	50	49	49	48	49	50	50	50	51	51	51	50	49	47	46	46	46	46	46	45	44	43	43	43	42	42	43	43		
	7 PM	50	50	49	48	48	48	48	49	50	50	51	51	50	49	48	47	46	46	46	45	46	45	44	44	43	42	42	42	42	42		
40 Inches	7 PM	54	53	53	53	52	52	52	52	52	52	52	52	52	51	51	50	50	50	50	49	49	48	48	47	47	47	47	46	46	50.3		
	7 PM	57	56	56	56	56	56	56	55	55	55	55	55	54	54	54	54	54	54	54	54	53	53	53	52	52	52	52	52	51			
4 Feet above ground	7 AM	40	34	25	42	21	37	35	35	45	42	45	52																				

SNOWFALL AND SNOW ON GROUND

IOWA
NOVEMBER 1949

Table 7

Station	Day of month																																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Algona																				0.5	T	T			T										
Ames 3 SW																T					T	T				T									
Atlantic AP CAA																						T													
Burlington WB AP			T														T	T			T	T			0.2	T									
Castana 4 E																						T													
Cherokee														T							T														
Clinton No. 1																					T	T				T									
Council Bluffs 5 NE																						T													
Davenport WB City			T													T	T	T	T		T	T		T	0.2	T									
Decorah 2 S																	T	T							2.7					T			T		
Des Moines WB AP											T										T	T			0.1										
Dubuque WB City			T											T	T	0.4	T				T	T		T	3.2	T	T	1	T		T				
Fort Dodge				T												T						T	T		T	T									
Grinnell														T		T	T				T	T			T										
Iowa City AP CAA																						T	T		T	T									
Iowa Falls 1 N												T	T	T	T							0.5	T	T	1.0	T	1		T						
Keokuk WB City																	T								0.1										
Maquoketa 5 E			T													T	0.3								2.5	T									
Marshalltown																						0.2													
Mason City AP CAA														T	T	T	T					T	T	2.0	T	T	T								
Norwich 2 E SCS Para																							T												
Oelwein																																			
Oskaloosa			T																				T												
Ottumwa AP CAA																							T	T											
Rock Rapids														T			T																		
Saratoga 2 E																																			
Shenandoah																																			
Sioux City WB AP																																			
Waterloo																																			

See reference notes following Station Index.

STATION INDEX

IOWA
NOVEMBER 1949

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9	41 02	94 12	1200	6P	6P	Fred E. Lamb	2 3 5	Morse 1 mi. NE	5737	Johnson	10	41 43	91 25			Lawrence J. Wall	3 4	
Afton	0068	Plymouth	1	43 49	98 33	1153	6P	6P	Orland C. Moore	3	Morse 4 mi. SSW	5742	Johnson	10	41 41	91 28			L. J. Fuhrmeister	3 4	
Afton	0112	Monroe	6	43 02	92 45	949	8P	7A	Arthur L. Freed	2 3 5	Mount Apr 2 mi. N	5769	Ringgold	9	40 44	94 14	1214	6P	6P	H. L. Cornellison	2 3 4 5
Algonz	0133	Kossuth	6	43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	Mount Pleasant	5796	Henry	21	40 57	91 32	730	6P	6P	A. M. Patterson	2 3 4 5
Alkott	0149	Wayne	9	40 42	93 23				Bernan E. Reddy	3 4	Muscatine No. 1	5823	Woodbury	11	42 29	96 04		7P	7P	Einar W. Widmark	3 4
Alkott	0157	Butler	4	42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Muscatine No. 2	5837	Muscatine	14	41 28	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5
Alkott	0173	Buena Vista	20	42 40	95 18	1313	7P	7A	F. Edna Allen	2 3 5	Muscatine No. 3	5842	Muscatine	14	41 25	91 03	546	7A	7A	Robert B. Hagy	3
Alkott	0181	Sioux	7	42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Muscatine 6 mi. N	5847	Muscatine	14	41 30	91 03			Bureau of Entomology	3 4	
Alkott	0205	Story	21	42 00	93 39	1004	7P	7P	Charles H. Brown	2 3 4 5 6 7	New Hampton	5952	Chickasaw	27	43 04	92 19	1156	7P	7P	Loddy Hrdlicka	2 3 5
Alkott	0213	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Newton	5992	Jasper	21	41 42	93 04	950	7P	7P	A. A. Scheel	2 3 5
Atlantic 1 mi. E	0364	Cass	16	41 24	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	North English	6076	Iowa	4	41 29	95 05	789			Ernest E. Andrews	3 4
Atlantic AP CAA	0369	Cass	16	41 24	95 02	1152	MID	MID	Always Com. Sta.	2 3 4 5 7	Northwood	6103	Worth	4	43 27	93 13	1322	7P	7P	Charles A. Walker	2 3 5
Audubon 2 mi. S	0385	Audubon	16	41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Norwich SCS Exp Farm	6119	Paga	22	40 45	95 12	1139	7P	7P	Soil Cons. Service	2 3 4 5 6 7
Augusta	0389	Des Moines	21	40 46	91 17	522	5A	5A	Glen Wood	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16	41 19	95 23	1150	6P	6P	Hard D. Keiske	2 3 5
Bancroft	0463	Kossuth	6	43 18	94 14	1200	7P	7P	Guy D. Hart	2 3 5	Ogden	6186	Johnson	10	41 43	91 24			Ed. Kadera	3 4	
Bancroft	0493	Fremont	26	40 53	94 44				H. L. Kilpatrick	2 3 5	Ogwein	6200	Yayette	27	42 40	91 55	1036	6P	6P	Milo W. Frame	2 3 5 7
Bancroft	0549	Boone	6	42 02	94 08				Virgil J. Stark	3 4	Osawa	6243	Monona	15	42 02	96 08	1050	7P	7A	B. J. Oliver	2 3 5
Beaver	0576	Boone	28	40 41	94 44	1215	6P	6P	H. J. Chabbers	2 3 5	Osage	6305	Mitchell	4	43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5
Bedford 1 mi. N	0600	Benton	10	41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Oskaloosa	6316	Clarke	6	41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5 7
Belle Plaine	0600	Benton	10	41 54	92 17	855	7P	7P	U. S. Engineers	2 3 4 5	Ottumwa 1 mi. NW	6386	Wapello	6	41 01	92 28	649	7P	7P	Closed	11-4-49
Belle Plaine	0608	Jackson	14	42 18	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa AP CAA	6389	Wapello	6	41 06	92 27	842	MID	MID	Always Com. Sta.	2 3 4 5 7
Belle Plaine	0608	Jackson	14	42 18	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa	6391	Wapello	6	41 00	92 24	820	7A	7A	Winfrey Kinnear	3
Bloomington 2 mi. S	0745	Taylor	19	40 36	94 39	1081	5P	5P	Glean A. Cobb	3	Pella	6527	Marion	6	41 24	92 55	875	7A	7A	E. C. Beading	3
Bloomington 2 mi. N	0753	Davis	8	40 47	92 20	825	7P	7P	Mrs. Leo Foster	2 3 5	Perry 2 mi. SE	6566	Dallas	20	41 51	94 06	975	7P	7P	Eugene K. Hantle	2 3 5
Boone	0807	Boone	6	42 04	92 53	1126	8P	8P	E. G. Kolb	2 3 5	Pocahontas	6719	Pocahontas	6	42 44	94 40	1226	5P	5P	Thomas A. Mc Mahon	2 3 5
Boone	0809	Boone	6	42 05	93 56	872	7A	7A	Andrew Lindbloom	2 3 5	Pocahontas	6800	O'Brien	11	43 05	95 38	1517	6P	6P	R. A. Hallard	2 3 5
Boone	0809	Boone	6	42 05	93 56	872	7A	7A	Andrew Lindbloom	2 3 5	Red Oak	6940	Montgomery	16	41 01	95 13	1077	6P	6P	Clarence M. Totty	2 3 5
Boone	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	16	41 01	95 14			Mrs. Z. M. Cosad	3	
Boone	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Rosson	6975	Plymouth	7	42 49	95 58			Municipal P & L Pl.	3 4	
Boone	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Rosson	6975	Plymouth	7	42 49	95 58			Municipal P & L Pl.	3 4	
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Boone	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Rosson	6975	Plymouth	7	42 49	95 58			Municipal P & L Pl.	3 4	
Boone	0923</																				

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperatures in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 1-5-50 -- 1115

Decorah Dry Run has been changed to Decorah. No change was made in the location of the station.

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

DECEMBER 1949

Volume LX No. 12



KANSAS CITY: 1950

IOWA - DECEMBER, 1949

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of December was a mild and pleasant month, and was marked by almost a complete absence of snow cover. Except in the extreme northeast, the ground was bare most of the month. For the State, precipitation averaged 1.07 inch or only .02 inch below normal. The southeast and extreme east generally received above normal amounts which alleviated somewhat the previous deficient pattern. However, the moisture amounts in the west central and northwest were generally less than 1/2 inch, contributing to the deficiency there of the last six months. Since July, this moisture deficiency ranges from about 2 1/2 inches in the west central and east central districts, to over 7 1/2 inches in the northeast. Snowfall for the month was very irregular with the heaviest amounts of from 7 to 15 inches north of a line from Dubuque to Mason City.

On December 1, a small disturbance gave 1 to 5 inches of snow in extreme northeast Iowa. A line from Emmet to Jackson County would divide the snow area with up to five inches being recorded in several counties; elsewhere only a few flurries were recorded. With very mild temperatures the first week, this snow cover was entirely gone by the 3rd.

Most of the month's precipitation fell during the following two periods, 9th-11 and 20th-22nd. During the first period, 1/2 to 1 inch of moisture fell in the eastern half while generally less than 1/2 inch fell in the western counties. This rain, although light, was beneficial to the winter wheat in the southwest and also aided fall seedings.

Although temperatures averaged above normal for the month, the day-to-day pattern presented a miniature roller coaster profile; in all there were five periods of above normal temperatures which were interspersed with three minor waves of cooling weather. A rather sharp contrast of weather occurred on the 11th-12th. First, on the 11th, the mercury soared into the 60's, breaking the high temperature record at a number of stations for that given date. During the afternoon, a fast moving surge of cold air caused some strong wind velocities to be recorded. As it entered northwest Iowa, accompanied with a few flurries of snow, it had all the appearance of a full fledged blizzard for a few hours. At the same time, strong southwest winds were blowing elsewhere. At Des Moines, the winds averaged 50 miles per hour from the southwest for a five-minute interval at mid-afternoon with an extreme velocity of 58 miles per hour. These readings shattered previous December records at Des Moines. With high temperatures ranging only from 20° to 30° on the 12th, the sharp contrast--a fall of 30° to 40°--was most noticeable to all.

The next significant precipitation occurred during the period 20th-22nd. In the extreme southeast and extreme east along the Mississippi River, the precipitation began first as rain, then changed to freezing rain, sleet, and finally some snow. The freezing rain left a glaze coating of 1/8 to 1/4 inch over all objects and made hazardous conditions on highways and streets until the 25th when mild weather again set in. Since there were no strong winds with icing, only minor interruptions of power or communications resulted. This portion of Iowa was on the fringe of a very severe freezing rain and ice storm that caused considerable damage in Illinois and Missouri. The snow belt, during this period, extended from this area to a line from Omaha to Mason City. Within this area, 1 to 5 inches of snow was reported. Only very light snow flurries fell in the northwest sections.

As the month ended, light rain was falling in extreme southeast Iowa. Thus, since the southeast had been the most favored area, monthly amounts for about thirty-five counties were above normal, the first time since June. The large triangular area from Sioux City to Dakota City to Council Bluffs, continued the deficient pattern. Although frost had penetrated the ground to a depth of 4 to 6 inches during the brief cold spells, the rains of the 20th-22nd and the mild temperatures of the last week left the ground in an unfrozen state by the end of the month.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 8,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
DECEMBER 1949

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
Burlington WB Airport	SSE	16	11.5	47	SW	11	79	81	69	75	7	5	2	2	0	0	16	52	6.3	1041
Charles City WB City	-	-	7.3	37	SW	11	-	-	-	-	3	5	5	0	0	0	13	43	6.2	1286
Davenport WB City	-	-	-	-	-	-	-	-	-	-	9	4	2	3	0	0	18	-	-	1033
Des Moines WB City	S †	17†	10.4	58	SW	11	73	78	66	69	4	4	3	0	0	0	11	57	6.5†	1118
Dubuque WB City	-	-	6.0	17	SW	11	-	-	-	-	9	1	7	0	0	0	17	46	6.6	1150
Sioux City WB Airport	NW	13	10.5	42	SW	16	74	76	61	66	10	4	1	0	0	0	15	58	6.3	1221

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	22.6	65	-10	2.51			1903	19.6	58	-27	0.41	3.7	4	1933	27.1	69	-30	1.05	2.8	5
1874	24.0	60	-18	0.84			1904	23.4	67	-19	1.44	12.3	5	1934	21.5	48	-17	0.57	5.5	5
1875	30.0	68	-18	2.06			1905	27.0	62	-11	0.52	4.2	3	1935	22.4	59	-19	0.95	7.6	8
1876	11.9	56	-28	0.24			1906	25.7	65	-9	1.43	1.4	6	1936	28.7	65	-16	1.55	5.1	5
1877	36.8	65	-11	2.18			1907	28.8	62	-9	1.00	4.7	5	1937	22.8	59	-11	0.74	5.4	6
1878	17.2	52	-17	0.77			1908	27.2	67	-17	0.57	3.8	3	1938	26.3	56	-15	0.71	4.7	5
1879	16.1	58	-35	1.40			1909	15.1	60	-26	2.18	13.7	11	1939	32.4	74	-9	0.62	4.2	4
1880	16.1	55	-25	0.85			1910	23.4	57	-14	0.37	3.0	3	1940	28.4	68	-32	1.36	10.0	6
1881	33.8	60	-10	1.24			1911	27.9	60	-24	2.57	12.6	7	1941	32.1	67	-15	1.91	9.5	7
1882	21.0	54	-23	1.57			1912	29.2	64	-13	0.74	1.1	3	1942	20.3	53	-20	1.59	6.5	7
1883	24.8	62	-24	1.03			1913	32.0	65	-13	1.02	1.3	4	1943	26.2	65	-13	0.52	1.1	2
1884	16.2	59	-30	2.15			1914	15.7	63	-31	1.30	11.1	9	1944	20.6	47	-25	1.29	10.2	7
1885	24.6	55	-22	1.45			1915	25.0	56	-10	0.69	4.6	5	1945	18.0	60	-24	2.03	10.6	9
1886	14.4	55	-32	0.80			1916	18.7	67	-25	1.04	6.7	6	1946	29.5	73	-27	0.63	3.3	4
1887	20.3	57	-25	2.17			1917	14.5	62	-40	0.56	6.7	6	1947	26.8	65	-13	1.47	3.1	4
1888	28.6	66	-6	1.46			1918	32.7	68	-7	1.30	5.1	8	1948	25.4	66	-21	1.65	8.0	7
1889	35.8	69	-2	1.06			1919	15.0	52	-36	0.54	5.8	4	1949	27.1	68	-22	1.07	3.5	5
1890	28.5	68	-18	0.58			1920	26.4	65	-26	1.16	7.4	5							
1891	32.3	62	-14	2.41		6	1921	28.2	69	-22	1.02	2.9	4							
1892	18.9	68	-29	1.65	10.9	8	1922	24.0	65	-25	0.37	2.2	3	Period	24.3			1.19	5.8	
1893	22.0	66	-21	1.31	7.6	7	1923	33.5	68	-21	0.76	4.4	4							
1894	30.1	73	-17	0.95	1.3	3	1924	15.4	62	-33	1.79	8.1	8							
1895	25.4	63	-16	1.63	4.1	5	1925	21.0	64	-25	1.30	10.6	5							
1896	30.8	66	-10	0.65	1.6	4	1926	21.9	58	-21	1.06	5.7	4							
1897	18.0	60	-25	1.65	15.9	6	1927	18.7	59	-22	1.04	4.4	5							
1898	18.1	60	-25	0.48	3.9	3	1928	28.7	57	-15	0.89	2.3	5							
1899	22.6	61	-19	1.61	4.3	5	1929	24.8	65	-13	0.39	3.8	5							
1900	26.9	63	-10	0.45	2.4	4	1930	26.7	65	-10	0.57	3.0	4							
1901	20.5	64	-31	0.93	5.4	6	1931	54.1	61	3	2.48	5.7	8							
1902	20.1	59	-20	2.23	12.9	8	1932	21.9	64	-27	1.44	5.5	5							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

107A
DECEMBER 1949

Table 2

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	24.6	1.9	51	11+	- 3	14+	30	.34	-.60	.14	12	.4	T	10+	5			
Alton	26.3	4.0	53	28	- 6	14	31	.50	-.20	.24	29	2.0	T	9	4			
Cherokee	24.8	2.0	53	11	- 4	14	30	.36	-.34	.14	11	1.0	T	8+	5			
Emmetsburg	24.0		52	11	- 5	24	30	.33		.15	30	1.5	T	9	4			
Estherville	22.4	1.9	52	11	- 7	24	31	.74	-.01	.18	12	5.0	T	10	7			
Hawarden	24.3 M	1.4	54	11	- 5	14	31	.78	-.08	.35	11	5.5	4	11+	6	2		
Inwood 2 W	22.3	.8	51	11	- 8	14	30	.66	-.05	.25	11	3.2	2	12+	6	1		
Lake Park	21.9	1.4	51	11	- 7	24	31	.77	-.02	.45	11	3.8	2	9	3	1		
Le Mars	26.1	2.8	52	3	- 2	14	30	.48	-.26	.20	30	1.0	1	9+	4			
Milford 4 NW	21.6 M	1.0	52	11	- 8	14	31	.74	-.06	.29	11	1.7	2	9	5	1		
Pocahontas 2 SE	25.3	2.7	55	11	- 8	14	31	.25	-.63	.25	11	.0		1	1			
Primghar	24.9	2.9	53	1+	- 5	14	30	.54	-.16	.17	11	2.1	3	9	4			
Rock Rapids	22.1	1.5	51	11	- 10	14	30	.69	-.01	.24	12	5.5	3	12+	5			
Sanborn	23.3	2.9	51	11	- 5	14	30	.70	-.00	.28	30	2.1	2	9	4	1		
Sheldon	23.0	2.1	52	11	- 8	14	31	.62	-.08	.28	30	3.0	2	9	6	1		
Sibley	21.7	1.7	46	3+	- 8	14	31	.92	.17	.35	30	2.5	2	9	4	2		
Sioux Rapids	23.6	1.1	51	3+	- 6	23	31	.66	-.19	.40	10	.5	T	9+	3	1		
Storm Lake 2 E	25.3	2.6	52	11+	- 3	23	30	.30	-.48	.18	11	2.0	2	9	3			
DIVISION	23.8	2.1						.58	-.19			2.4						
NORTH CENTRAL DIVISION																		
Algona	24.4	2.5	56	11	- 6	24	31	.58	-.36	.40	11	2.3	1	9	5	1		
Allison	24.5	2.6	56	11	- 9	24	30	.92	-.23	.32	11	7.0		9	4	2		
Bancroft	24.4	3.9	55	11	- 8	24	30	.78	-.07	.27	11	3.8	2	9	6	1		
Britt	19.8	1.4			- 10	24	31	1.92	1.14	.70	11	6.5		6	3			
Charles City	23.5	2.6	56	11	- 10	24	30	1.36	.16	.32	11	10.4	4	23	10	2		
Clarion	24.5	2.1	56	11	- 4	23+	31	.38	-.57	.35	11	1.0	1	8	3	1		
Dakota City	25.4	2.4	55	11	- 2	24	31	.32	-.48	.29	11	.3	T	9+	2	1		
Forest City	22.8 M	2.3	55	11	- 8	24+	31	1.00	-.04	.30	1	6.5	4	1	6	2		
Hampton	24.8	2.4	55	11	- 6	24	30	.91	-.24	.50	11	4.0	1	9+	9	1		
Mason City 3 N	23.3	2.2	55	11	- 7	24	30	.76	-.19	.28	1	7.8	3	1	7	1		
Mason City AP CAA	22.0	.9	55	11	- 11	24	30	.97	.02	.37	10	2.6	2	1	8	2		
Northwood	22.4	2.1	54	11	- 12	24	31	.92	-.31	.31	11	9.0	5	1	7	1		
Osage	22.7	1.8	54	11	- 12	24	31											
DIVISION	23.4	1.9						.90	-.12			5.1						
NORTHEAST DIVISION																		
Cascade	26.9		64	11	- 7	23	28	2.12		.64	11	8.1	3	22+	7	4		
Cresco	22.1	2.0	53	11	- 12	23	30	1.59	.35	.62	11	8.4		6	3			
Decorah	24.2		56	11	- 18	24	29	1.30		.35	11	10.5	4	1	7	1		
Decorah 2 S	22.2	1.4	55	11	- 22	24	29	1.71	-.50	.30	7+	15.2		11	2			
Delaware 2 W	24.8 M	2.4				24	29	1.00	-.35	.41	10	6.0	2	11	4	1		
Dubuque L & D 11	27.0	2.0	60	11	- 4	23	29	1.16	-.11	.35	22	10.6	3	21	8	1		
Dubuque WB City	28.1	3.1	62	11	- 1	23	27	1.41	.14	.28	11	8.1	3	1	8	1		
Elkader	22.9	.7	52	11	- 16	23	30	.76	-.59	.31	1	13.0	5	1	3	2		
Fayette	23.7	2.0	57	11	- 17	23	30	1.34	.04	.62	11	10.8	5	1	6	2		
Guttenberg L & D 10	26.7	1.7	63	11	- 8	23	29	1.06	-.39	.20	10	12.3	5	10	11			
Independence 2 W	25.0	1.8	58	11	- 8	23	30	1.33	.15	1.00	11	3.5	2	9	4	1		
New Hampton	19.2	1.8	55	11	- 17	23	31	1.01	-.14	.36	11	9.4	6	1	9	2		
Oelwein	25.8	2.4	58	11	- 8	23	29	.98	-.22	.52	11	8.0	3	9+	5	1		
Saratoga 2 E	20.9		54	11	- 18	24	30			.50	1		5	1				
Tripoli	25.4		56	11+	- 10	24	29	1.72		.70	11	8.5	3	9	5	3		
Waterloo	25.8	2.5	56	11	- 10	23	29	.59	-.55	.20	22	3.3	2	22+	8	2		
Waukon	23.1	1.6	52	11+	- 9	23	31	1.53	.23	.94	11	11.0	4	9+	5	2		
DIVISION	24.3	1.9						1.29	.05			6.2						
WEST CENTRAL DIVISION																		
Audubon 2 S	26.5	2.0	56	11	- 3	23	30	.54	-.38	.41	11	.7	T	9+	6	1		
Carrroll	28.5	4.5			0	14+	29	.12	-.84	.08	11	.2	T	9	2			
Castana 4 E	26.6		57	1	- 2	23	30	.24		.09	11	.8		9	3			
Cushing 3 NE	26.0	2.7	53	11	- 2	14+	29	.28	-.57	.09	9	2.6	1	9	5			
Denison 1 S	26.6	2.2	54	11+	- 1	23+	30	.22	-.50	.19	11	.5	T	9	2			
Guthrie Center	27.8	2.1	60	11	- 4	23	29	.67	-.37	.45	11	1.9	1	9+	5	1		
Harlan	27.8	3.2	57	11	- 1	23	29	.33	-.51	.26	11	.5	T	9+	2	1		
Ida Grove 4 S	26.0	2.4	53	11+	- 2	14+	30	.24	-.63	.13	11	1.2	T	9	4			
Jefferson	28.0	3.1	59	11	0	23	30	.54	-.41	.41	11	.5	T	21+	3	1		
Lake City	26.3	2.4	56	11	0	14	30	.41	-.54	.28	11	T	T	9	3	1		
Logan	27.4	1.6	56	30	0	14+	29	.14	-.73	.08	12	1.5	T	9+	3			
Mapleton 5 NW	26.3	2.1	54	30	- 3	23	30	.05	-.80	.05	10	T	T	9	1			
Missouri Valley	30.1	3.6	57	6	2	14	29	.20	-.68	.12	11	1.4	1	9	3			
Onawa	27.1	1.7	55	28	- 1	14	31	.57	-.33	.40	9	1.2	1	9	4	1		
Rockwell City	25.8	2.3	55	11	- 1	14+	31	.57	-.39	.44	11	1.2	1	9	3	1		
Sac City	26.4	3.0	53	11+	0	14+	30	.24	-.64	.11	11	1.0	1	9	3			
Sioux City WB AP	25.7	3.7	54	11+	0	14	31	.29	-.51	.19	10	1.5	1	9	5			
DIVISION	27.0	2.5						.33	-.56			1.0						
CENTRAL DIVISION																		
Ames 3 SW	27.3	2.9	60	11	- 6	23	29	.71	-.34	.52	11	2.0	2	22+	6	1		
Boone	27.7	2.7	60	11	0	23+	28	1.17	-.23	.69	11	2.4	2	22+	7	1		
Des Moines WB AP	28.4	2.8	61	11	- 2	23	28	.72	-.40	.31	11	1.9	2	22+	4	1		
Des Moines WB City	29.0	2.5	62	11	0	23	28	.82	-.30	.34	11	2.3	2	22+	7	2		
Fort Dodge	25.7	2.7	57	11	- 1	24	30	.51	-.44	.22	11	1.0	1	10	4			

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
DECEMBER 1949

Table 2-Continued

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Grinnell	28.0	2.6	60	11	- 5	22		30	1.21	-.03	.73	12	2.5	2	22+	3	2	
Grundy Center 4 NE	26.1	3.6	61	11	- 10	23		29	.84	-.31	.33	12	3.0	2	22+	6	2	
Iowa Falls 1 N	24.7	2.0	56	11	- 9	23		30	.92	-.26	.28	11	4.7	2	10+	5	3	
Marshalltown	28.3		61	11	- 23	23		29	.86		.32	11+				3	2	
Newton	29.6 M	4.1	60	11	- 1	23		27	.72	-.43	.35	12	.2	T	9+	5	2	
Perry 2 SE	28.1	3.1	60	11	- 5	23		29	.64	-.38	.39	11	2.4	2	22+	5	1	
State Center	28.3	3.8	57	11	- 2	23		29	.32	- 1.09	.14	22	1.9	1	22	5		
Toledo	28.3	3.6	59	11	- 6	23		29										
Wauke	29.6	3.7	62	11	- 4	23		28	1.03	-.03	.82	11	1.5	1	22+	4	1	
Webster City	25.8	2.9	58	11	- 2	23		30	1.16	.26	.70	9	2.0			3	2	
Woodward 7 N	28.6	3.6	59	11	- 4	23		26	.83	-.17	.70	11	2.9	2	22	4	1	
DIVISION	27.7	3.1							.83	-.27			2.2					
EAST CENTRAL DIVISION																		
Anamosa 1 NW	27.4	3.2	64	11	- 8	23		28	1.43	.08	.73	11	3.3			7	2	
Belle Plaine	28.0	3.6	61	11	- 7	23		29	1.57	.14	1.16	11	2.8	2	22+	8	1	1
Bellevue L & D 12	28.5	3.0	62	11	- 9	23		28	2.13	.83	.70	12	5.7	3	22+	8	3	
Cedar Rapids No. 1	28.3	3.5	63	11	- 5	23		28	.75	-.37	.36	22	3.1	2	22+	6	1	
Clinton No. 1	31.0	3.7	66	11	0	23		26	2.57	1.02	.62	11	2.2	1	22+	10	4	
Davenport WB City	31.6	4.2	66	11	- 5	23		27	2.88	1.44	.87	20	2.0	1	21+	9	4	
Iowa City AP CAA	28.3	2.9	67	11	- 1	23		29	1.70	.29	.68	31	1.8	2	22+	7	3	
Le Claire L & D 14	31.6		64	11	- 3	23		25	2.70	1.26	.95	21	1.5	1	26	11	4	1
Maquoketa 5 E	28.7	4.7	62	11	- 4	23		26	2.48	1.14	1.21	11	7.7	3	21+	7	3	
Wonsouth 4 SW	26.0 M	1.5																
Muscatine No. 1	31.5	4.5	60	11	- 1	23		26	3.25	1.85	.97	20	8.7	1	21+	9	4	
Tipton	29.6	4.1	66	11	- 6	23		27	1.94	.54	.85	11	5.5	4	22+	6	2	
Vinton	28.1 M	4.2																
Williamsburg	28.5	3.3	63	11	- 6	23		28	.82	-.53	.44	21	2.0	2	21+	3	2	
DIVISION	29.1	3.8							2.02	.66			3.9					
SOUTHWEST DIVISION																		
Atlantic 1 E	27.9	2.3	58	11	- 8	23		29	.72	-.29	.50	11	2.9	2	22+	5	1	
Atlantoc AP CAA	26.3	.7	57	11	- 11	22+		30	.51	-.50	.29	11	3.3	2	9+	5	1	
Bedford 1 N	29.4	2.6	61	11	- 6	23		28										
Clarinda	29.2	3.4	60	11	- 12	23		28	1.15	.12	.62	9	5.1	4	22+	5	1	
Corning 1 W	28.6	2.2	67	10	- 7	24		28										
Council Bluffs 5 NE	29.3		56	11	- 3	23		28	.11		.06	22	1.0			4		
Glenwood 2 E	29.4 M	1.9	58	11	- 5	23		29	.42	-.40	.25	11	4.5	3	22+	5	1	
Greenfield	27.3	1.3	59	11	- 5	23		30	.84	-.25	.27	22	5.3	2	9+	5	1	
Worwich 2 E SCS Farm	28.8	2.9	60	11	- 7	23		29	.49	-.56	.31	11	6.0	5	22+	4	1	
Oakland 2 E	27.7	2.1	58	11	- 9	23		29	.55	-.30	.23	11	2.2	2	22	6		
Red Oak	28.4	2.8	60	11	- 14	23		28	.70	-.27	.28	21	5.5	5	22	6	1	
Shenandoah	30.3	3.3	61	11	- 10	23		28	.52	-.53	.25	11	5.5	5	22	5	1	
Sidney	30.6		59	11	- 13	23		28	.89		.40	22	6.0	5	22	3	2	
DIVISION	28.7	2.4							.63	-.36			4.3					
SOUTH CENTRAL DIVISION																		
Afton	28.7	1.9	59	11	- 8	23		29										
Albia	31.1	4.1	66	11	0	23		27	1.72	.42	.51	11	1.3	1	22+	5	4	
Centerville	32.3	5.0	68	11	- 2	23		27	2.14	.78	.93	11	2.0	2	21+	6	3	
Chariton 3 E	29.9	2.9	64	11	- 10	23		27	1.69	.62	.70	10	2.5	2	21+	4	3	
Creston	27.9	1.8	58	11	- 7	23		29	.67	-.38	.28	22	8.1	4	22+	5	1	
Indianola	29.7	3.1	61	11	- 2	23		28	.99	-.16	.75	11	2.5			5	1	
Knoxville 2 W	31.0	3.9	64	11	0	23		28	1.45	.15	1.02	11	2.2	2	22+	4	2	1
Lamoni	29.8	2.9	63	11	- 3	23		29	1.95	.87	1.20	11	1.6	1	21+	6	2	1
Millerton	30.6	3.1	65	11	- 4	23		27	.97	-.23	.56	31	2.0	2	22+	5	2	
Mount Ayr 2 N	29.4	2.1	60	11	- 8	23		28	1.26	-.10	.76	11	3.5	3	21	3	2	
Osceola	30.4	3.6	61	11	- 4	23		28	1.42	.32	1.11	11	1.8	2	22+	5	1	1
Tingley	27.5	.1	60	11	- 10	23		30	1.12	.02	.63	11	2.9	2	22+	6	1	
Winterset	29.6	2.8	62	11	- 5	23		28	.73	-.30	.43	11	2.4	2	22	5	1	
DIVISION	29.8	2.8							1.30	.15			2.5					
SOUTHEAST DIVISION																		
Bloomfield 2 N	31.7 M	4.4							1.12	-.31	.34	10+	T			4	2	
Burlington WB AP	31.4	3.7	67	11	5	23		27	2.18	.56	.73	20	.7	1	26	9	4	
Columbus Junction	31.5 M	4.1																
Fairfield	29.9	2.7	68	12	1	23		28	2.15	.75	.69	21	.9	1	22+	5	5	
Keokuk L & D 19	32.5	2.3	67	12	9	14+		26	2.65	1.19	.67	22	2.0	1	22+	7	4	
Keokuk WB City	32.5	2.3	68	11	6	23		25	2.57	1.11	.74	21	1.5	1	22	10	4	
Keosauqua State Park	33.5 M	4.5																
Mount Pleasant	32.0	4.0	67	11	0	23		26	3.79	2.33	1.51	11	2.5	2	26	6	4	
Oskaloosa	30.4	3.8	67	11	- 4	23		28	1.60	.30	.48	31	2.1	2	22+	9	3	
Ottumwa AP CAA	30.1	1.8	68	11	1	23		26	2.06	.81	.70	31	2.1	2	21+	7	4	
Sigourney	30.1	3.4	68	11	0	23		28	2.02	.71	.43	11	3.0	3	22	6	3	
Washington	31.0	4.5	67	11	0	23		28	.66	-.74	.22	12	2.5	2	21+	4		
DIVISION	31.4	3.7							2.08	.67			1.7					
STATE	27.1	2.7							1.07	-.02			3.5					

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
DECEMBER 1949

Table 2—Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
DELATED DATA																		
JUNE 1949																		
NORTHWEST DIVISION Spencer 1 N	69.8	2.1	94	17+	46	7	6		4.43	.28	2.17	1				10	4	1
Keokuk WB City	75.2 M	2.5																
NORTHEAST DIVISION																		
Dubuque L & D 11	71.3	1.9	94	29	44	8	1		4.43	.27	1.24	24				9	6	1
SOUTH CENTRAL DIVISION																		
Lamoni	73.0	2.0	92	20+	52	15	3		6.15	.98	2.05	2				12	7	2
AUGUST 1949																		
SOUTHWEST DIVISION																		
Columbus Junction	72.9	-.1	95	6	48	31	5		1.21	- 2.80	.81	19				6	1	
SEPTEMBER 1949																		
NORTHEAST DIVISION																		
Decorah	58.4		86	2	21	29	5	5	1.87		.49	11				7	4	
Guttenberg L & D 10	59.3	- 4.7	84	12	27	29		1	1.61	- 2.20	.59	4				11	2	
OCTOBER 1949																		
WEST CENTRAL DIVISION																		
Audubon 2 S	53.2	-.2	84	7+	15	31		5	1.61	-.54	.98	7				4	2	
NOVEMBER 1949																		
NORTHEAST DIVISION																		
Decorah	38.4		74	7+	6	26		22	.76		.31	12	3.0	2	24+	5	2	
Guttenberg L & D 10	39.8	1.8	74	7	14	22		21	.74	- 1.16	.37	13	2.5	2	24+	4	2	

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
1 Inch	7 AM	35	29	32	32	28	30	31	22	25	30	41	22	20	13	17	24	31	29	32	32	26	26	20	17	30	13	20	22	23	26	34	26.8
	12 M	38	32	39	34	32	32	31	26	27	31	46	26	25	20	26	30	32	31	33	33	26	27	23	21	30	20	27	30	28	31	35	29.7
	7 PM	33	33	40	33	32	32	30	25	28	32	36	23	22	20	28	32	32	32	35	32	26	25	22	25	24	21	29	32	30	33	33	29.4
2 1/4 Inches	7 AM	35	31	32	32	30	31	32	25	27	30	40	25	21	15	19	25	31	29	32	32	27	27	22	20	30	16	22	23	24	26	33	27.2
	12 M	38	32	40	35	32	32	32	28	28	31	44	28	26	22	27	30	32	31	32	33	27	28	25	24	31	22	27	30	28	31	34	30.3
	7 PM	34	34	40	34	32	32	31	27	29	32	36	25	23	22	29	32	32	32	33	32	27	26	24	27	26	23	30	32	31	32	33	30.1
4 Inches	7 AM	37	33	34	35	33	33	33	30	30	31	33	32	27	22	23	26	31	31	32	32	31	30	25	22	30	20	24	24	26	28	32	29.4
	12 M	38	34	36	35	33	33	33	30	30	31	38	32	29	26	27	29	31	31	32	32	30	30	26	23	30	23	26	28	28	30	32	30.5
	7 PM	37	35	40	36	33	34	33	30	30	32	39	30	28	26	29	31	32	32	32	32	29	29	26	26	28	24	29	30	30	31	32	31.1
8 Inches	7 AM	39	37	36	38	36	35	35	34	33	33	33	35	33	31	29	30	31	31	32	32	32	32	31	28	30	26	26	27	29	29	31	32.1
	12 M	39	37	37	38	36	35	35	34	33	33	34	35	33	31	30	30	32	32	32	32	32	32	30	28	30	26	27	28	29	30	31	32.3
	7 PM	39	37	39	38	36	36	35	33	33	33	38	34	32	31	30	31	32	32	32	32	32	32	29	28	30	27	28	29	30	30	31	32.5
20 Inches	7 AM	42	42	42	42	41	41	40	40	40	40	39	39	38	38	37	37	36	37	37	37	36	36	36	36	36	35	35	34	34	34	34	37.9
	12 M	43	43	42	42	42	41	41	40	40	40	40	39	39	38	38	37	37	37	37	37	36	36	36	36	36	35	35	35	34	34	34	38.1
	7 PM	42	42	42	42	42	41	40	40	40	40	39	39	39	38	38	37	37	37	37	37	36	36	36	36	36	35	35	34	34	34	34	37.9
40 Inches	7 PM	46	46	46	46	45	45	45	44	44	44	44	43	43	42	43	42	42	42	42	42	41	41	41	40	40	40	40	40	39	40	39	42.4
	7 PM	51	51	51	50	50	50	50	50	50	49	49	48	48	48	48	48	48	48	48	48	47	47	47	47	47	46	46	46	46	46	46	48.2
	7 PM	51	51	51	50	50	50	50	50	50	49	49	48	48	48	48	48	48	48	48	48	47	47	47	47	47	46	46	46	46	46	46	48.2
4 Feet above ground	7 AM	35	25	33	28	22	30	26	6	18	30	52	10	12	3	15	26	30	23	34	33	14	14	3	1	37	2	18	26	19	28	40	22.4
	12 M	37	44	50	43	42	41	28	16	23	33	56	20	15	15	34	40	42	41	39	32	13	15	14	19	26	20	34	45	32	38	48	32.1
	7 PM	26	37	45	32	30	28	20	16	26	39	28	16	13	13	30	40	38	33	41	22	15	9	10	26	19	20	33	32	30	42	37	27.3

The range of diurnal changes at depths greater than 20 inches is about 1°. Soil, when not frozen, is cultivated to depth of about 2 inches after each important rain.

HOURLY PRECIPITATION

IOWA
DECEMBER 1949

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
-1st-																										
BEAVER																										.20
BELLEVUE L/D 12																										.13
CASCADE																										.30
CHARLES CITY																										.24
DUBUQUE WB CITY																										.32
FOREST CITY																										.14
HARTLEY 3S																										.16
MASON CITY AP CAA	6																									.26
MONONA																										.16
RINGSTED																										.25
ST ANSGAR 2S																										.07
SHEFFIELD																										.05
SHELL ROCK																										.05
SPENCER 1N	6																									.14
SPILLVILLE																										.25
STRAWBERRY POINT																										.25
-6th-																										
CHARLES CITY																										.02
ST ANSGAR 2S																										.02
SPILLVILLE																										.02
-7th-																										
BELLEVUE L/D 12																										.02
DUBUQUE WB CITY																										.01
MONONA																										.02
ST ANSGAR 2S																										.03
SPILLVILLE																										.02
-8th-																										
AMES 3SW																										.01
CENTERVILLE																										.01
HAMBURG																										.01
MISSOURI VALLEY																										.02
NORWICH 2E SCS FARM																										.02
SIoux CENTER																										.01
SIoux CITY WB APT																										.01
SOLDIER																										.01
WHEATLAND																										.01
WOODBINE 5SE																										.01
-9th-																										
AMES 3SW																										.26
ATLANTIC AP CAA	//																									.04
BELLEVUE L/D 12																										.10
CASCADE																										.25
CHARLES CITY																										.19
CHEROKEE																										.09
COON RAPIDS																										.08
COUNCIL BLUFFS 6 NE																										.03
DAKOTA CITY																										.03
DAVENPORT WB CITY																										.07
DES MOINES WB CITY																										.05
DEXTER																										.04
DUBUQUE WB CITY																										.20
FOREST CITY																										.21
GREENFIELD																										.02
HAMBURG																										.05
HINTON 5WNW																										.05
HORNICK																										.04
IDA GROVE 4S																										.04
IOWA CITY AP CAA	6																									.07
IOWA FALLS 1N																										.07
LARRABEE																										.06
LENOX																										.03
MARION 4NE																										.03
MASON CITY AP CAA	6																									.08
MISSOURI VALLEY																										.12
MONONA																										.04
MORSE																										.01
MORSE 1NE																										.01
MOUNT AYR 2N																										.01
MOVILLE																										.04
MUSCATINE NO 1																										.03
NORWICH 2E SCS FARM																										.01
REMSEN																										.01
RINGSTED																										.07
ROCKWELL CITY																										.04
ST ANSGAR 2S																										.04
SAINT CHARLES																										.10
SHEFFIELD																										.01
SHELL ROCK																										.19
SIoux CENTER																										.08
SIoux CITY WB APT																										.07
SPENCER 1N	6																									.20
SPILLVILLE																										.20
STRAWBERRY POINT																										.04
TRAEER																										.04
WALLIN 2NW																										.06
WEBSTER CITY																										.10
WOODBINE 5SE																										.10
-10th-																										
ALLERTON																										.75
AMES 3SW																										.27
ATLANTIC AP CAA	//																									.11
BELLEVUE L/D 12	//																									.20
BURLINGTON WB APT																										.33
CASCADE																										

HOURLY PRECIPITATION

IOWA
DECEMBER 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
BREFFIELD	.01		.02	.02					.01	.01	.08														.15		
SHELL ROCK	.03	.02							.03		.12	.16					.01								.37		
SIoux CENTER	.01												.04	.01	.06	.04	.02								.18		
SIoux CITY WB APT																									.01		
SOLDIER									.09	.01	.03	.01	.02												.16		
SPENCER 1N	.12												*	*	*	*	*	.18	*	*	*	*	*	*	.42		
SPILLVILLE	.02	.05		.01	.01			.01	.01		.04	.20	.07												.77		
STRAWBERRY POINT	.02	.01	.02	.02							.04	.16	.45		.05										.35		
TABOE 5NW	*	*	*	*	*	*	*	*	*	.35															.39		
TRANE	.01	.01	.01	.01						.01	.04	.28	.02												.27		
WALLIN 2NW							.03	.20	.04																.22		
WASHINGTON	.01		.01							.05	.15														.19		
WEBSTER CITY										.13	.03														.59		
WHEATLAND	.05	.01									.15	.32	.03	.03											.37		
WOODSINE 5SE	*	*	*	*	*	*	*	*	*	*	*	.37													.37		
-12th-																											
IDA GROVE 4S																									.03		
SPENCER 1N	.03																								.03		
-17th-																											
BURLINGTON WB APT	//																.01	.01		.01	.01	.01	.01	.01	.05		
DAVENPORT WB CITY	//																					.01	.04	.01	.05		
KROOK WBO																						.01	.01	.02	.05		
-18th-																											
KROOK WBO	.02	.01	.01		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
-19th-																											
FOREST CITY																									.01		
KROOK WBO	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05		
MASON CITY AP CAA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
RINGSTED	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
-20th-																											
ALLENTON				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
BURLINGTON WB APT	//					.02	.06	.01	.04					.01			.10	.04	.14	.10	.07	.03	.11	.73			
CENTERVILLE																.05	.04	.04	.04					.09			
DAVENPORT WB CITY									.01	.01	.17	.29				.04	.05	.15	.09	.05		.01	.01	.87			
DERBY																								.02			
FOREST CITY	.01																							.01			
IOWA CITY AP CAA																								.01			
IOWA C RALSTON CRK1																		.04	*	*	*	*	*	.05			
IOWA C RALSTON CRK2																			.02	.01				.03			
IOWA C RALSTON CRK3																			.02	.01				.02			
IOWA C RALSTON CRK4																			.02	.01				.03			
IOWA C RALSTON CRK5																	.02	.01						.03			
KROOK WBO									.04						.02		.09	.15	.12	16	.05	.08		.71			
LAMONI																.07	.01	.05						.13			
MASON CITY AP CAA	.01																	.02	.02	.01				.05			
MORSE																		.02	.04	.04				.08			
MORSE 1NE																		.03	.01					.04			
MORSE 4SSW																		.03	.01					.04			
MOUNT PLEASANT							.09	.09	.26	.03	.01	.04				.08	.11	.12	.02	.06	.03		.94				
MUSCATINE NO 1									.04	.56	.27	.03					.05	.02	.05					1.02			
MUSCATINE 6N									.04	.41	.20						.01	.04	.05					.75			
OASIS																		.02	.01	.01	*	*	.11	.04			
OTTUMWA AP CAA									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.11			
SPILLVILLE		.01	.01																					.02			
WASHINGTON							.01	.01	.04								.03	.09	.04					.22			
-21st-																											
AMES 3SW											.02	.01	.01											.11			
ATLANTIC AP CAA	//																		.03	.02	.01	.01	.01	.07			
BELLEVUE L/D 12	//																						.02	.40			
BURLINGTON WB APT	//								.14	.07	.16	.09	.04	.03								.01	.01	.54			
CASCADE																						.02		.20			
CENTERVILLE							.05	.09	.19	.22	.02													.57			
CHARLES CITY																	.02	.03	.01	.02	.02	.01	.01	.12			
COON RAPIDS																								.01			
COUNCIL BLUFFS 6 NE																.01	.01	.01					.01	.04			
DAVENPORT WB CITY										.04	.16	.28	.12									.02	.02	.64			
DERBY									.01	.06	.04	.01	.01			.01	.02	.01						.17			
DES MOINES WB APT															.01	.02	.02	.02	.02	.02	.02	.01	.01	.16			
DES MOINES WB CITY															.02	.02	.02	.02	.02	.03	.01		.01	.13			
DEXTER															*	*	*	*	*	*	*	*	*	*			
DUBUQUE WB CITY											.09	.05	.01	.01	.02	.01	.02	.01	.01	.01	.01		.01	.21			
GREENFIELD															.02	.03	.04	.04	.02	.02			.02	.19			
GRINNELL											.05	.02						.03	.02		.03	.01	.01	.17			
HAMBURG															.06	.04	.08	.06	.05	.02	.02	.02	.02	.39			
IOWA CITY AP CAA	.07						*	*	*	*	*	.26	*	*	*	*	*	.10	*	*	*	*	*	*			
IOWA C RALSTON CRK1										.03	.16	.14	.02	.02			.01	*	*	*	*	*	*	.38			
IOWA C RALSTON CRK2									.01	.06	.16	.09	.02											.34			
IOWA C RALSTON CRK3										.09	.15	.06	.02											.32			
IOWA C RALSTON CRK4		.01							.01	.05	.14	.11	.01	.01										.34			
IOWA C RALSTON CRK5										.05	.15	.07										.01		.28			
IOWA FALLS 1N									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.25			
KROOK WBO	.01	.01					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KNOXVILLE 2W									.02	.06	.04							.04	.01	.01				.18			
LAMONI							.01	.10	.06	.04						.01	.02	.02	.02	.01	.01	.01	.01	.31			
LENOX								.02	.04						.03	.01	.05	.08	.07	.02	.01	.01	.01	.34			
MARION 4NE									.08	.07	.01	.01			.01	.02	*	*	*	*	*	*	*	.26			
MARSHALLTOWN NO 2							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
MONONA																	.03	.01	.01		.01	.01	.01	.07			
MORSE								.02	.12	.12	.02	.01												.30			
MORSE 1NE								.03	.16	.09	.03													.31			
MORSE 4SSW								.06	.17	.09	.03	.01												.36			
MOUNT AYR 2N																						.42		.42			
MOUNT PLEASANT										.05	.14	.28	.14											.61			
MUSCATINE NO 1							.01	.01	.02	.16	.32	.02									*	*	*	*			
MUSCATINE 6N								.01	.09	.24	.02													.36			
NORTH ENGLISH								.12	.09	.01	.01													.23			
NORWICH 2E SCS FARM																											

HOURLY PRECIPITATION

IOWA
DECEMBER 1949

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
SIoux CENTER													.06	.06	.12	.07	.03								.34	
SIoux CITY WB APT															.01											.01
SOLDIER																			.01						.01	
SPENCER 1N													*	*	*	*	*		.04	*	*		*	*	.08	
SPILLVILLE																				.01			.01	.05	.02	
TRAEr																			.01	.02			.01	.01	.03	
WEBSTER CITY																									.03	
-31st-																										
ALLERTON	.04	.01	.05	.08	.09	.09	.08	.10	.05	.03	.01	.01												.64		
AMES 3SW			.01																					.01		
BEAVER																										
BELLEVUE L/D 12			.05	.01	.01	.01	.01	.01	.01	.01	.02	.02	.03	.01	.01	.01	.01							.22		
BURLINGTON WB APT				.02	.01	.01	.03	.03	.04	.06	.07	.03	.03	.02	.02	.01	.01							.35		
CASCADE				.01	.01	.01	.02							.01								.01	.01	.10		
CENTERVILLE		.03	.02	.01	.02	.01	.05	.02	.07	.08	.04	.03	.03											.41		
DAVENPORT WB CITY			.04	.03	.03	.01	.03	.05	.07	.11	.08	.03	.03	.03	.02	.02	.01	.03	.01					.59		
DEBBY	.01		.01	.03	.02					.04	.01	.01	.01											.15		
DUBUQUE WB CITY											.03	.07	.01	.01	.02	.02						.01		.17		
FOREST CITY						.10																		.10		
HARTLEY 3S																										
IOWA CITY AP CAA							.15						.50	*	*	*	*	*	.02	*	*	*	*	.64		
IOWA C RALSTON CRK1	.01	.03		.03	.02	.08	.12	.09	.23	.05	.01	.02	.01			.01								.65		
IOWA C RALSTON CRK2		.02		.01	.02	.06	.11	.10	.17	.07	.03	.02	.01		.01	.01								.64		
IOWA C RALSTON CRK3														*	*	*	*	*	*	*	*	*	*	.70		
IOWA C RALSTON CRK4		.04	.01	.01	.02	.08	.07	.14	.09	.06												.01	.01	.52		
KROKUE WBO				.03	.04	.04	.03	.05	.06		.03	.04	.02	.01					.01	.01	.01	.01	.01	.40		
KNOXVILLE 2W						.03	.02																	.05		
LAMONI				.06	.09	.09	.01	.01	.03	.01														.30		
MARION 4NE				.01			.01				.01	.02	.02	.02		.01								.10		
MASON CITY AP CAA	.06																									
MORSE		.03		.02	.04	.10	.05	.08	.08	.05	.01		.01	.01	.01					.01				.50		
MORSE 1NE		.07	.01	.02	.05	.06	.09	.04	.06	.04	.04	.01	.01											.50		
MORSE 4SSW														*	*	*	*	*	.67					.67		
MOUNT AYR 2N			.01	.01	.03	.01		.02	.02															.10		
MOUNT PLEASANT	.06	.04	.03	.02	.03	.06	.10	.06	.04	.06	.01	.04	.04			.01	.02				.01	.01	.60			
MUSCATINE NO 1	.01	.02	.03	.05	.06	.06	.04	.06	.07	.07	.09	.09	.01	.02	.01						.01	.01	.64			
MUSCATINE 6N		.02	.02	.02	.06	.04	.06	.07	.07	.09	.09	.01	.02	.01					.01	.01				.60		
NORTH ENGLISH			.06	.08	.06	.08	.05	.05	.07	.01														.46		
OASIS		.02	.03	.03	.08	.11	.10	.12	.03	.01	.02										.01		.01	.57		
OTTUMWA AP CAA														*	*	*	*	*	*	*	*	*	*	.72		
ST ANSGAR 2S	.01	.02	.03																					.06		
SAINT CHARLES						.02				.01														.03		
SHELL ROCK	.01																							.01		
SPENCER 1N	.03																									
STRAWBERRY POINT											.02	.01	.01	.01	.01									.05		
TRAEr			.01																					.01		
WASHINGTON		.03	.02	.03	.04	.06	.02	.07	.08	.07	.08	.05	.03	.01						.01		.01		.61		
WHEATLAND			.05	.01	.03	.03	.09	.05	.07	.04	.01	.01	.02	.01	.02			.01		.01				.46		

DELAYED DATA

Station	Hour	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	Total
LAMONI AP CAA 4NW	6																									.01
LAMONI AP CAA 4NW	6																						*	*	*	
LAMONI AP CAA 4NW	6	.44											.91													
LAMONI AP CAA 4NW	6												.14	*	*	*	*	*	*	.03	*	*	*	*		
LAMONI AP CAA 4NW	6	.02	*	*	*	*	*	.02																		
LAMONI AP CAA 4NW	6																									
LAMONI AP CAA 4NW	6																									
LAMONI AP CAA 4NW	6																									



DAILY TEMPERATURES

IOWA
DECEMBER 1949

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
AFTON	MAX MIN	49 33	46 22	48 30	48 28	45 21	48 32	45 25	22 7	26 15	48 25	59 30	31 8	23 12	24 3	38 12	45 23	43 29	40 29	45 30	43 21	22 12	20 7	24 8	33 0	36 14	24 3	30 18	46 21	44 20	50 28	45 37	38.4 18.9
ALBIA	MAX MIN	47 25	48 21	59 36	54 30	48 22	49 31	39 20	23 7	27 17	48 26	66 32	32 11	27 14	22 4	38 11	45 27	47 32	49 34	45 33	49 27	18 10	26 0	34 4	41 22	29 8	43 15	44 26	47 24	53 31	47 41	41.0 21.2	
ALGONA	MAX MIN	42 23	46 24	44 32	43 32	43 22	40 26	34 13	20 2	26 9	56 22	23 6	15 5	17 -1	36 8	42 20	40 21	28 18	38 25	40 14	15 5	14 5	12 -1	27 -6	38 12	25 0	38 16	47 15	36 9	52 24	45 28	34.1 14.6	
ALLISON	MAX MIN	40 18	44 24	46 21	52 25	40 19	40 30	36 12	21 4	22 8	34 20	56 19	22 9	20 6	35 -2	36 -1	45 21	42 30	39 22	39 15	24 15	15 -1	12 -6	28 -9	38 15	28 -2	38 15	45 14	42 24	40 35	43 35	34.6 14.4	
ALTA	MAX MIN	42 29	48 24	48 33	43 25	42 19	44 21	41 16	20 1	27 11	37 27	51 11	19 4	14 4	23 -3	40 13	44 23	41 18	34 10	38 25	38 12	16 5	17 2	19 -3	31 -1	37 7	28 1	39 13	51 16	36 10	44 20	45 25	35.6 13.5
ALTON	MAX MIN	50 30	49 22	52 25	50 24	40 18	52 12	48 16	28 2	30 15	35 22	45 12	25 2	25 2	24 -6	36 9	45 18	47 18	43 12	45 25	40 12	20 10	20 3	20 0	37 1	40 0	37 8	43 15	50 23	48 18	47 25	39.5 13.0	
AMES 3SW	MAX MIN	42 26	47 21	52 30	46 28	44 22	44 27	38 20	21 5	26 12	40 26	60 28	17 9	21 10	39 2	43 7	46 21	45 29	42 21	42 33	22 22	17 9	18 6	27 -1	18 18	24 1	41 14	48 18	40 25	51 36	46 25	37.1 17.5	
ANAMOSA 1NW	MAX MIN	37 24	40 20	55 31	46 26	42 19	43 20	36 16	24 6	23 6	34 21	64 31	59 11	22 0	18 -1	23 21	45 28	42 33	43 32	43 33	23 8	14 -8	22 0	38 20	35 7	35 10	46 15	39 22	46 26	46 38	43 38	37.2 17.6	
ATLANTIC 1E	MAX MIN	46 29	50 20	53 36	45 26	46 19	40 30	40 17	23 5	28 17	46 27	58 23	26 8	21 9	27 2	41 12	45 26	45 20	50 18	42 30	42 17	19 13	21 5	26 -8	35 0	36 17	28 -4	39 16	47 19	45 15	44 23	39.2 16.6	
ATLANTIC AP CAA	MAX MIN	45 17	49 20	52 33	45 19	46 11	49 26	33 11	23 5	32 18	55 32	57 10	25 8	20 7	27 1	41 10	44 25	45 15	48 29	42 15	36 14	18 -11	19 -11	25 1	38 1	38 -5	27 12	39 18	47 16	44 19	53 32	43 32	38.8 13.6
AUDUBON 2S	MAX MIN	45 32	48 20	49 35	44 29	45 20	44 27	39 15	16 1	24 12	38 24	56 17	23 6	18 6	25 1	40 12	40 18	44 26	47 27	41 17	41 9	17 4	15 -3	17 1	24 13	36 1	36 14	41 19	46 11	52 25	46 31	36.8 16.1	
BANCROFT	MAX MIN	45 23	46 23	43 33	43 27	44 19	40 24	32 14	24 0	26 8	34 24	55 24	37 6	18 3	20 -4	37 6	41 14	41 19	31 18	39 24	38 15	20 2	14 7	13 -3	25 -8	37 13	25 -1	38 17	46 7	39 25	54 25	47 25	35.2 13.5
BEDFORD 1N	MAX MIN	49 35	48 25	55 36	47 24	45 24	49 31	45 22	22 9	27 16	46 22	61 15	35 7	29 12	26 4	39 12	46 24	48 30	45 21	41 28	40 20	20 14	22 12	28 -6	37 2	39 19	25 1	36 14	46 21	45 21	50 31	45 43	39.9 18.9
BELLE PLAINE	MAX MIN	39 22	44 17	57 31	46 27	46 20	48 27	32 21	22 7	23 11	39 22	61 39	39 11	22 11	20 2	37 6	43 23	47 29	43 29	43 28	42 26	19 16	15 7	29 0	39 23	26 5	39 13	47 18	41 20	49 26	43 38	37.6 18.3	
BELLEVUE L AND D 12	MAX MIN	40 25	34 15	55 31	50 28	42 22	38 18	37 25	31 2	24 8	34 22	62 33	61 13	25 11	31 3	41 0	45 21	42 29	42 32	43 36	46 20	40 11	29 -9	24 -1	40 22	39 14	37 21	44 16	45 24	41 23	38.7 18.3		
BLOOMFIELD 2N	MAX MIN	42 33	56 36	47 33	43 31	48 34	38 24	29 11	28 14	48 24	68 36	39 15	28 16	22 4	41 17	45 21	48 27	45 34	50 33	51 33	33 18	28 15	24 0	28 11	33 8	40 14	47 24	47 31	51 32	44 32	41.0 22.4		
BOONE	MAX MIN	44 30	46 27	50 33	45 25	42 28	43 19	37 5	19 11	27 26	41 20	60 27	20 9	20 10	39 2	47 7	44 25	43 31	41 22	42 33	22 11	17 8	18 0	29 0	37 15	25 4	42 20	49 23	37 17	51 27	44 35	37.0 18.4	
BRITT	MAX MIN	41 13	38 14	40 30	40 21	33 15	29 22	25 13	14 -4	24 5	33 25	41 29	37 2	12 0	11 -6	30 3	39 19	35 20	27 14	37 22	12 13	12 0	7 -6	13 -10	17 13	22 -4	31 15	32 11	32 7	47 23	43 26	28.7 11.2	
BURLINGTON WB APT	MAX MIN	50 19	46 17	58 33	48 29	44 20	54 29	35 18	24 10	29 16	51 28	67 26	27 15	31 13	21 6	32 7	45 21	48 29	45 36	46 37	62 30	31 22	23 11	25 5	36 13	38 25	27 14	38 23	47 23	46 26	52 32	48 41	41.1 21.7
CARROLL	MAX MIN	45 25	53 24	51 35	48 26	46 16	46 22	43 20	35 4	29 15	39 27	59 17	22 7	18 8	23 0	41 10	45 27	46 28	48 16	40 28	41 15	28 9	22 5	20 1	35 11	40 0	30 18	55 19	47 19	55 42	49 29	40.1 16.9	
CASCADE	MAX MIN	38 21	37 13	55 31	43 28	42 22	39 18	31 24	24 8	23 8	64 35	50 23	18 12	23 12	32 0	40 20	44 34	47 37	41 41	44 32	22 22	15 7	25 -5	32 24	31 9	35 10	46 13	38 21	45 21	41 23	36.2 17.6		
CASTANA 4E	MAX MIN	57 31	49 28	48 38	45 24	44 26	49 23	43 17	20 2	27 9	43 26	53 20	18 4	25 -1	37 7	46 17	42 23	45 18	41 29	39 12	16 5	22 2	36 -2	34 1	30 3	42 2	52 16	42 23	42 11	46 26	38.1 15.0		
CEDAR RAPIDS NO 1	MAX MIN	38 25	41 18	57 33	44 27	43 21	46 26	33 20	23 8	23 10	36 23	63 36	45 12	22 13	18 3	34 2	43 23	46 30	42 31	43 30	44 28	21 19	18 8	26 -5	39 1	27 9	38 13	48 17	49 22	45 26	41 41	37.4 19.2	
CENTERVILLE	MAX MIN	47 31	48 19	59 36	48 26	48 18	50 31	40 24	25 7	28 14	47 25	68 46	46 11	30 14	24 4	37 10	46 28	47 31	47 38	46 31	52 29	30 16	19 11	30 -2	41 6	43 9	48 14	49 24	55 23	48 31	42 42	42.8 21.6	
CHARITON 3E	MAX MIN	46 28	48 15	58 37	50 29	48 12	49 32	43 26	26 5	27 15	42 24	64 41	50 9	27 10	22 2	38 6	45 27	47 30	47 25	45 35	28 15	19 13	29 -10	32 -2	40 0	27 7	42 33	49 20	46 34	50 40	45 41	41.0 18.8	
CHARLES CITY	MAX MIN	36 19	37 22	46 31	40 27	38 22	36 25	26 10	20 4	24 8	38 24	56 13	21 10	14 6	15 1	35 6	40 22	43 30	35 21	40 27	39 15	16 10	15 0	12 -5	33 9	37 1	41 16	43 11	44 15	43 24	41 37	32.5 14.5	
CHEROKEE	MAX MIN	52 32	48 24	49 34	44 25	45 14	45 20	30 19	21 0	26 11	42 25	53 10	19 4	12 3	24 -4	31 9	45 20	40 16	44 10	40 25	36 20	15 8	18 -3	39 -2	40 4	29 -1	40 12	52 17	46 9	54 18	47 24	41.7 13.1	
CLARINDA	MAX MIN	47 35	56 17	55 35	47 26	46 15	49 30	44 21	27 10	32 17	51 30	60 17	31 8	25 2	29 10	41 22	48 27	51 17	52 30	43 21	42 18	21 5	25 -12	28 2	39 16	40 -4	29 10	38 11	50 20	46 24	47 37	41.7 16.7	
CLARION	MAX MIN	38 21	47 20	48 31	43 25	41 17	40 20	33 15	22 1	25 8	35 24	56 26	26 6	15 5	17 -2	39 5	41 21	43 27	38 16	39 25	40 15	15 5	13 -4	25 -4	37 15	37 -3	25 12	39 12	51 25	36 32	50 44	44 32	34.7 14.2
CLINTON NO 1	MAX MIN	37 25	44 22	58 31	50 28	47 21	42 23	36 26	30 12	27 13	37 25	66 37	55 15	30 14	23 6	34 5	43 20	46 30	40 35	42 35	53 39	40 26	16 10	28 0	38 5	32 17	36 16	48 20	41 26	50 29	43 38	40.1 21.8	
COLUMBUS JUNCTION	MAX MIN	42 29	47 17	61 34	54 28	45 22	52 29	38 22	28 9	27 10	40 25	68 39	53 14	29 12	21 4	35 3	44 21	50 32	44 36	45 36	52 37	40 19	22 9	22 1	37 39	25 25	36 48	44 44	51 51	46 46	41.7 21.2		
CORNING 1W	MAX MIN	46 35	49 22	53 25	45 28	45 17	49 32	43 20	21 8	28 16	67 25	60 15	26 7	23 12	26 2	40 14	46 20	47 29	44 33	44 30	41 19	20 6	24 -5	37 -7	44 10	41 -1	39 11	48 21	49 19	51 29	46 35	39.7 17.4	
COUNCIL BLUFFS 5NE	MAX MIN	49 35	52 20	52 39	49 26	45 13	55 26	53 21	25 9	30 17	46 26	56 26	26 7	23 8																			

DAILY TEMPERATURES

IOWA
DECEMBER 1949

Table 5--Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DECORAH 2S	MAX MIN	33 11	33 11	45 28	38 26	37 18	32 14	28 19	21 3	21 -3	34 20	55 33	45 10	17 5	13 -1	32 -5	38 23	42 31	39 20	39 19	40 24	26 14	17 0	10 -21	19 -22	31 18	22 -5	31 9	42 8	34 12	43 21	43 35	32.3 12.1
DELAWARE 2W	MAX MIN	38 22	35 18	53 28	41 24									24 7	14 -2	30 2	39 17	44 24	39 28	40 30	42 26	27 18	20 1	12 -9	29 -5	37 20	25 2	35 10	42 13	35 18	45 23	42 35	34.3 15.2
DENISON 1S	MAX MIN	45 29	49 23	50 37	44 17	45 14	45 19	40 18	21 3	27 17	45 26	54 14	20 6	17 6	24 1	39 14	47 25	41 26	43 14	38 31	17 17	17 7	22 6	37 -1	39 2	29 14	41 -1	49 15	40 18	54 11	44 29	37.5 15.7	
DES MOINES WB APT	MAX MIN	43 26	48 24	54 35	46 28	46 32	45 31	35 15	22 6	29 18	54 29	61 14	26 10	20 9	23 3	40 12	44 27	46 32	41 22	43 33	38 19	19 15	17 3	22 -2	37 2	39 12	28 4	39 14	48 22	42 20	50 30	45 36	38.3 18.4
DES MOINES WB CITY	MAX MIN	43 27	49 26	54 34	47 30	46 22	46 30	33 16	22 8	30 19	54 30	62 14	26 11	20 7	22 6	40 11	45 28	47 32	44 25	44 33	38 19	19 15	19 5	21 0	39 3	40 13	26 6	41 15	50 22	43 22	52 27	45 37	38.9 19.1
DUBUQUE L AND D 11	MAX MIN	39 25	32 19	51 28	41 27	37 21	34 22	32 24	25 9	23 9	33 20	60 31	57 12	20 11	15 1	27 3	37 20	41 29	43 32	41 30	45 34	38 28	29 9	14 -4	21 -2	38 18	38 9	30 13	44 16	40 20	41 21	43 33	35.8 18.1
DUBUQUE WB CITY	MAX MIN	37 24	35 22	55 33	42 31	41 25	37 24	32 21	23 10	27 11	41 27	62 25	25 13	21 9	18 4	32 5	41 23	45 34	39 34	42 34	46 28	28 21	22 5	13 -1	34 2	40 24	28 12	36 15	48 21	38 23	45 27	44 38	36.0 20.1
ELKADER	MAX MIN	40 23	35 12	45 22	41 24	43 17	36 15	31 19	21 3	21 0	34 18	52 22	42 9	20 7	12 -1	33 -4	40 17	41 17	42 25	41 24	41 17	30 6	20 3	15 -16	21 -12	40 18	29 0	33 2	41 7	45 3	44 13	45 34	34.6 11.1
EMMETSBURG	MAX MIN	35 27	47 22	45 31	43 26	41 19	40 16	29 2	22 9	27 2	35 25	52 34	34 13	20 5	35 -3	43 5	39 20	29 19	38 37	37 15	15 14	12 12	26 -5	31 -2	26 15	38 12	46 8	35 22	52 8	47 24	33.7 14.2		
EUREKVILLE	MAX MIN	40 24	45 24	44 32	42 26	42 21	40 22	35 10	23 0	25 3	52 25	17 13	12 3	17 1	33 -4	42 3	39 16	26 19	38 17	37 23	15 11	13 2	9 -2	28 -7	37 8	34 -1	45 14	34 11	51 5	45 21	33.0 11.7		
FAIRFIELD	MAX MIN	51 32	48 17	47 22	59 29	47 22	43 22	51 29	30 8	23 8	32 20	59 32	68 13	22 12	28 4	20 4	34 12	45 27	49 31	46 35	51 39	51 19	23 15	15 1	25 5	38 8	40 8	28 14	49 21	45 24	52 26	40.6 19.2	
FAYETTE	MAX MIN	35 20	34 14	49 28	41 26	40 20	35 17	28 2	27 0	22 0	34 19	57 30	52 10	19 7	15 0	33 -3	38 20	43 29	42 29	40 23	40 28	29 15	18 5	12 -17	20 -11	38 11	31 -4	32 6	42 14	37 19	45 36	43 36	34.5 12.9
FOREST CITY	MAX MIN	39 20	41 15	40 31	41 25	40 17	39 26	30 12	22 1	33 2	35 23	55 21	23 5	15 2	15 -3	35 3	40 10	40 20	30 18	38 23	38 12	15 3	13 -6	11 -8		36 -8	35 12	44 13	35 10	53 28	40 30	33.5 12.0	
FORT DODGE	MAX MIN	37 26	48 24	51 35	45 26	42 20	42 24	27 17	20 3	26 11	39 25	57 22	22 8	18 7	19 0	40 8	43 24	44 28	40 16	41 27	36 16	17 7	17 5	29 0	36 -1	28 13	40 0	52 16	38 17	53 22	47 30	35.7 15.7	
GLENWOOD 2E	MAX MIN	49 30	52 22	52 43	48 24	44 15	55 27	47 21	29 11	29 19	47 29	58 27	27 9	22 10	29 3	44 15	49 28	47 30	50 17	41 30	38 18	18 20	28 28	37 5		28 -4	40 12	47 20	42 17	50 25	46 36	40.2 18.5	
GREENFIELD	MAX MIN	48 22	52 26	52 28	46 24	44 23	46 30	37 19	21 5	26 15	53 25	59 24	24 7	21 11	23 2	42 18	39 27	46 21	48 28	42 17	35 12	27 6	20 -5	24 0	34 4	37 -4	24 13	37 13	46 17	40 27	51 34	45 34	38.4 16.1
GRINBELL	MAX MIN	40 24	45 19	55 32	47 25	46 18	45 29	32 20	23 5	25 11	41 24	60 25	36 18	22 10	20 0	38 7	44 22	46 30	45 26	43 30	43 24	27 14	18 5	20 -5	29 0	39 20	25 4	39 13	49 20	42 20	51 27	46 38	38.1 17.9
GRUNDY CENTER 4NE	MAX MIN	41 23	47 18	55 30	47 26	46 19	46 22	34 16	24 4	23 7	35 21	61 34	34 8	21 7	19 -1	39 3	47 22	46 28	45 22	42 24	43 22	26 10	19 3	14 -10	25 -8	38 19	24 -3	36 11	48 12	41 15	49 23	42 36	37.3 14.9
GUTHRIE CENTER	MAX MIN	45 29	49 24	51 38	45 28	44 22	46 25	40 19	20 4	27 17	40 26	60 28	28 8	19 9	25 2	41 13	45 27	44 30	50 20	41 30	41 18	17 10	20 2	33 -4	38 0	25 15	41 0	47 17	38 20	53 14	45 23	37.9 17.6	
GUTTENBERG L D 10	MAX MIN	40 20	35 19	54 29	43 22	42 22	36 19	34 19	26 4	25 6	63 31	52 21	22 9	33 0	41 0	39 22	34 26	41 30	41 30	42 34	36 18	20 8	14 -8	22 -4	41 17	35 5	47 9	48 14	45 18	40 21	33 33	36.8 16.5	
HAMPTON	MAX MIN	39 23	45 23	50 31	42 26	42 20	30 25	22 18	23 4	23 4	55 23	27 28	17 8	17 6	37 0	41 5	43 24	37 30	39 20	39 25	21 7	16 6	12 -4	20 -6	37 11	34 0	30 17	39 13	45 15	45 28	33.8 15.6		
HARLAN	MAX MIN	44 28	51 22	50 33	46 26	45 15	50 25	42 21	22 7	27 18	43 28	57 25	18 9	26 9	41 2	44 11	44 21	45 26	41 30	41 16	17 11	17 10	24 -1	35 5	35 17	26 1	42 14	50 19	42 16	54 24	44 33	38.3 17.3	
HAWARDEN	MAX MIN	47 25	49 26	48 30	45 20	44 12	50 18	38 15	23 2	30 12	42 30	54 15	15 3	18 -1	20 -5	33 2	44 15	30 20	37 10	39 26	38 15	21 4	23 2	20 0	39 2	41 10	37 0	39 8	47 15	37 9	45 24	36.4 12.1	
IDA GROVE 4S	MAX MIN	45 32	49 24	50 34	44 25	44 19	44 22	42 17	19 1	29 14	40 28	53 19	20 5	16 4	24 -2	37 5	45 22	43 20	45 15	41 26	40 14	17 5	17 6	23 -2	35 0	39 11	32 0	41 13	50 20	40 10	45 24	37.5 14.5	
INDEPENDENCE 2W	MAX MIN	37 18	39 16	53 28	42 24	41 15	41 22	32 18	22 3	22 5	34 18	58 30	50 7	20 7	15 -2	35 1	41 19	44 26	45 25	41 27	42 23	19 12	13 5	23 -8	28 15	26 2	34 9	45 13	40 16	46 22	43 34	35.5 14.4	
INDIANOLA	MAX MIN	46 31	49 25	55 36	48 26	45 21	46 30	41 25	25 5	27 18	45 25	61 34	34 9	27 11	23 2	39 10	45 28	46 31	43 23	43 28	25 25	20 15	25 -2	32 -1	39 20	28 2	40 13	50 21	41 18	52 26	47 40	39.7 19.6	
INWOOD 2W	MAX MIN	45 28	47 26	47 35	44 20	42 12	49 17	43 11	19 -3	26 10	36 26	51 11	18 1	14 -2	17 -8	31 2	40 10	34 18	36 11	37 24	36 16	16 16	17 17	34 -1	37 5	30 0	37 7	40 15	34 7	43 23	43 19	33.8 10.7	
IOWA CITY AP CAA	MAX MIN	40 19	45 15	59 32	46 24	45 19	50 23	31 18	24 9	28 8	46 28	67 21	25 13	24 11	20 2	35 3	43 19	49 28	43 27	44 33	44 25	26 19	19 4	35 -1	40 4	30 23	39 13	48 16	41 26	48 25	43 36	38.6 17.9	
IOWA FALLS 1N	MAX MIN	38 20	45 21	52 29	42 25	42 18	43 23	32 13	22 3	25 8	38 23	56 23	24 7	18 5	17 -2	38 3	41 22	43 18	43 25	39 19	40 6	20 6	15 -9	12 0	32 7	37 -3	35 14	49 11	36 15	50 25	45 35	35.3 14.1	
JEFFERSON	MAX MIN	43 27	50 22	53 33	46 29	43 20	46 26	41 20	21 5	26 15	40 26	59 29	29 9	18 9	24 1	41 11	45 28	45 18	45 31	41 20	42 10	20 8	19 3	31 10	38 1	27 16	43 20	51 14	39 24	46 31	46 31	38.3 17.6	
KEOKUK L D 19	MAX MIN	52 35	51 24	46 23	55 32	47 27	46 30	44 13	25 34	25 12	55 20	67 32	28 18	32 9	23 9	33 14	44 26	45 35	46 37	43 37	53 25	63 18	31 10	22 11	29 17	38 20	40 20	31 25	46 27	48 35	46 35	41.9 21.1	
KEOKUK WBO	MAX MIN	50 24	47 22	57 34	48 30	46 24	53 33	32 18	24 10	30 17	68 30	23 22	32 14	20 7	35 10	46 27	47 32	46 38	47 38	64 28	28 19	19 10	27 6	38 15	41 22	28 19	39 24	52 27	49 29	49 35	41.7 23.3		
KROSAUQUA STATE PK	MAX MIN	49 31	49 20	61 34	52 31	49 24	52 32	41 26	26 10	28 15	45 25	70 44	54 14	32 13	21																		

DAILY TEMPERATURES

IOWA
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Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
LOGAN	MAX MIN	47 34	51 25	51 36	46 24	44 12	54 25	42 18	21 5	28 16	45 26	55 16	22 5	20 8	26 0	41 12	49 25	44 14	44 28	41 13	32 7	18 8	18 1	25 4	38 11	40 0	28 14	42 21	48 11	38 23	56 30	46 30	36.7 16.1
MAPLETON 5NW	MAX MIN	44 26	49 21	49 35	46 25	44 12	48 22	42 15	20 3	29 17	48 28	53 16	21 5	16 5	26 -1	40 10	46 20	43 13	46 28	42 13	38 4	17 3	17 6	22 -3	39 2	40 7	30 0	43 13	51 18	40 11	54 22	46 29	38.3 14.3
MAQUOKETA 5E	MAX MIN	39 22	37 17	56 30	49 28	42 22	38 24	34 24	27 9	23 10	35 22	62 33	60 13	23 13	17 4	31 3	41 20	45 28	42 34	40 34	49 37	39 23	27 8	14 -4	24 1	38 23	36 13	35 14	41 16	38 23	44 27	42 37	37.7 19.6
MARSHALLTOWN	MAX MIN	37 31	46 19	53 30	46 28	44 20	44 27	41 24	28 6	25 8	36 23	61 35	59 9	24 10	18 1	38 4	44 25	46 31	47 25	43 26	42 26	26 12	16 10	16 -12	28 -5	40 21	25 -1	38 12	49 14	46 18	52 25	48 42	38.9 17.7
MASON CITY 3N	MAX MIN	38 17	41 19	43 31	42 29	39 19	38 23	25 12	21 2	24 5	35 22	55 23	23 8	14 4	15 -1	37 3	41 18	43 28	35 18	39 25	39 13	15 5	15 4	10 -2	26 -7	38 12	23 -2	34 12	44 14	34 13	51 25	44 34	32.8 13.7
MASON CITY AP CAA	MAX MIN	36 15	39 15	40 28	40 25	39 20	38 23	25 8	20 3	24 7	36 23	55 11	19 7	14 3	14 -1	36 2	40 12	42 25	28 17	38 26	38 11	14 5	13 -1	11 -8	35 -11	36 4	23 -2	36 15	44 11	34 11	51 26	41 33	32.2 11.7
MILFORD 4NW	MAX MIN	41 25		45 32	41 23	40 16	40 20	41 10	22 -2	25 7	35 24	52 15	15 2	10 -1	16 -8	32 5	40 16	38 17	27 16	37 24	37 12	14 1	13 2	10 -2	29 -5	36 6	25 -1	36 10	44 13	32 6	50 23	45 19	32.5 10.8
WILLERTON	MAX MIN	46 28	49 19	60 34	47 27	50 21	50 25	39 26	27 6	27 13	45 25	65 41	48 9	30 12	24 4	37 10	41 15	47 28	47 36	45 31	46 27	29 14	21 13	30 -4	32 2	39 18	29 4	43 12	49 23	49 22	51 27	47 40	41.6 19.6
MISSOURI VALLEY	MAX MIN	49 32	53 30	51 37	51 25	47 16	57 23	41 20	23 7	30 18	49 29	56 13	28 6	22 7	32 2	44 17	50 30	48 27	49 15	48 30	40 16	20 7	21 7	29 4	39 5	41 12	34 5	48 17	54 29	45 13	56 29	47 33	42.9 18.1
MONMOUTH 4SW	MAX MIN	41 21	39 16	57 27	47 26	42 19	43 20	36 20	30 6	26 12	45 26	64 42	56 9	23 6	19 -1	28 1	41 18				41 30	48 23	40 18	20 5	14 -8	22 0	22 0	35 8	35 10	46 15	42 20	44 21	37 14.6
MOUNT AVE 2N	MAX MIN	46 32	50 18	56 36	46 25	45 16	48 33	48 22	24 8	28 15	49 27	60 30	39 8	28 7	40 4	46 13	46 26	42 28	44 29	43 25	44 22	23 14	20 8	30 -8	36 3	33 8	27 0	42 15	48 28	45 22	51 30	45 41	39.9 18.9
MOUNT PLEASANT	MAX MIN	48 30	48 17	61 32	48 31	52 21	52 31	40 25	26 9	27 13	44 25	58 43	58 14	30 12	21 5	33 7	44 21	49 30	43 37	45 36	57 35	35 25	25 21	30 0	39 9	28 14	39 13	47 20	41 25	52 32	47 40	41.9 23.1	
MUSCATINE NO 1	MAX MIN	42 27	44 17	60 32	48 29	46 23	50 28	37 23	26 10	27 12	39 25	66 38	61 14	30 14	22 5	34 6	42 22	48 29	42 36	43 35	51 36	36 21	21 11	11 7	32 16	37 23	38 21	47 21	52 21	45 27	45 40	41.1 21.9	
NEW HAMPTON	MAX MIN	35 11	34 12	46 22	38 19	37 15	34 15	26 2	19 -8	21 -6	35 14	55 14	21 3	14 -2	13 -7	34 -5	38 13	43 22	37 14	37 17	39 12	19 5	13 -6	11 -17	27 -7	37 10	21 -9	32 7	42 2	33 7	43 15	40 30	31.4 7.0
NEWTON	MAX MIN	44 26	47 23	57 33	47 27	43 21	44 32	36 21	22 6	26 13	43 25	60 33	33 9	21 12	20 3	37 9	44 27	45 31	44 26	43 33	38 26	20 13	19 -1	27 1	39 20		40 15	51 22	44 21	52 29	45 39	38.9 20.3	
NORTHWOOD	MAX MIN	37 20	37 17	38 28	38 21	39 20	36 24	27 13	19 0	19 2	33 19	54 32	40 6	13 -2	13 -2	34 2	39 12	40 24	33 19	38 35	37 15	15 13	8 -4	26 -12	36 14	22 -2	34 15	44 11	33 11	52 25	42 32	31.6 12.8	
NORWICH 2E SCS FARM	MAX MIN	47 32	50 19	53 34	47 24	45 15	53 28	46 23	24 8	30 15	60 19	26 11	24 9	28 11	42 3	48 25	48 30	51 20	41 32	40 19	20 10	25 8	39 -7	39 1	27 14	39 -2	40 12	45 20	49 21	44 29	40 40	17.4	
OAKLAND 2E	MAX MIN	46 24	52 16	52 35	47 24	45 12	52 25	43 20	22 6	29 17	48 22	58 32	25 8	20 9	28 1	42 12	47 24	45 30	47 16	42 27	41 15	19 10	19 8	26 -9	36 2	38 -4	40 10	47 15	43 27	50 34	45 27	38.4 15.9	
OSLWIN	MAX MIN	35 19	38 19	52 31	40 23	39 21	37 23	27 19	19 4	21 11	34 21	58 34	40 10	18 9	12 2	33 3	40 23	43 30	44 26	40 31	42 24	25 16	24 3	14 -8	24 2	38 21	24 4	32 14	44 11	38 18	48 27	44 38	34.4 17.1
OSAWA	MAX MIN	49 31	52 27	50 32	48 21	47 11	54 17	43 17	20 2	29 17	52 27	54 15	24 4	18 5	28 -1	39 13	47 23	43 17	46 12	43 27	40 13	18 5	20 5	23 0	38 3	40 1	32 12	46 21	55 8	40 23	45 31	39.9 14.7	
OSAGE	MAX MIN	42 22	41 14	41 26	40 22	38 18	37 19	31 14	19 -2	19 -3	33 14	54 29	53 4	28 0	15 -5	34 -2	39 17	41 24	39 15	40 21	44 17	30 4	20 5	14 -7	19 -12	36 14	26 -8	32 11	43 9	43 17	42 31	34.7 10.7	
OSCEOLA	MAX MIN	46 30	48 22	55 36	48 26	47 23	49 32	39 26	28 7	27 17	46 25	61 37	36 9	25 14	26 4	39 11	45 26	46 28	42 32	45 31	44 23	25 14	21 10	39 -4	34 2	39 20	27 14	40 24	48 20	51 30	46 38	40.3 20.4	
OSKALOOSA	MAX MIN	42 29	48 20	59 33	45 29	49 18	47 31	36 25	25 7	27 17	46 28	67 38	38 12	25 13	21 3	40 10	46 23	47 31	42 32	43 26	38 18	19 11	22 -4	28 5	42 9	27 15	43 23	49 24	44 28	55 41	45 28	39.9 20.8	
OTTUMWA AP CAA	MAX MIN	45 23	47 21	59 33	47 29	47 22	46 34	36 15	23 9	28 17	50 28	68 12	25 11	26 6	20 10	37 24	44 30	48 36	48 38	44 24	46 17	24 4	17 1	22 5	38 18	40 10	38 16	42 23	47 24	52 31	44 40	39.8 20.3	
PERRY 2SE	MAX MIN	43 26	49 22	53 30	47 28	45 15	46 25	39 21	23 5	26 15	40 25	60 35	21 9	25 10	42 1	46 10	46 24	48 30	47 19	41 31	22 20	19 12	21 11	29 -5	38 0	26 18	43 10	50 18	40 14	52 24	44 34	38.9 17.3	
POCAHONTAS 2SE	MAX MIN	42 26	47 22	48 30	42 21	47 19	43 22	31 15	28 1	33 10	40 27	55 28	28 6	22 3	20 -8	38 8	38 19	43 16	38 26	40 20	40 16	24 5	16 8	11 -3	30 -4	38 8	26 -2	39 12	47 16	52 28	47 27	36.8 13.8	
PRIMGAR	MAX MIN	53 28	46 25	46 33	46 24	42 17	42 19	48 15	24 1	24 12	34 23	53 27	34 3	14 2	21 -5	32 10	42 23	42 17	39 14	37 24	39 13	17 27	18 3	14 0	28 -1	38 12	27 1	46 10	45 8	47 23	44 22	36.3 13.6	
RED OAK	MAX MIN	46 21	51 16	54 38	47 23	47 11	54 31	44 20	23 10	31 18	60 30	22 16	24 9	27 9	42 14	48 28	47 16	49 33	43 17	39 18	37 14	18 6	15 -14	38 3	39 15	26 -6	46 10	44 18	50 20	45 26	45 36	39.9 16.8	
ROCK RAPIDS	MAX MIN	43 26	47 24	47 33	42 23	40 13	46 20	33 13	21 2	26 11	36 26	51 15	15 10	0 -10	17 12	30 18	40 13	37 25	43 10	40 3	17 4	18 0	19 0	29 5	38 0	28 10	40 13	51 9	37 23	52 20	44 20	32.6 11.6	
ROCKWELL CITY	MAX MIN	45 27	48 20	50 29	44 26	45 20	45 23	40 17	19 2	26 11	38 25	55 19	20 7	16 6	21 -1	39 8	43 20	44 23	43 14	40 27	40 17	17 7	18 7	19 -1	29 0	38 13	28 0	40 15	51 17	37 12	52 22	44 30	36.6 14.9
SAC CITY	MAX MIN	45 32	49 26	50 37	44 27	46 20	43 24	34 17	20 3	28 14	39 28	53 16	21 7	16 6	24 0	40 11	43 24	44 23	45 13	40 27	40 16	17 8	17 4	20 0	30 0	39 11	29 1	40 16	51 19	39 11	53 23	46 29	36.9 15.9
SANBORN	MAX MIN	42 27	46 29	46 34	41 24	41 18	42 20	42 15	21 0	29 11	34 27	51 18	18 2	12 4	18 -5	30 9	41 22	39 18	29 15	37 24	37 13	15 5	15 4	12 0	27 0	27 7	28 1	35 11	43 15	34 7	46 23	45 20	33.1 13.5
SARATOGA 2E	MAX MIN	33 16	32 15	39 27																													

DAILY TEMPERATURES

IOWA
DECEMBER 1949

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SIOUX RAPIDS	MAX	49	49	51	49	49	47	33	29	29	43	50	36	18	18	33	43	34	32	39	40	17	16	10	30	36	30	37	50	35	51	45	
	MIN	22	19	22	22	12	21	9	0	15	28	8	0	0	-5	5	13	15	14	24	11	5	-3	-6	-1	16	-3	8	11	10	20	24	
SPENCER IN	MAX	41	46																														
	MIN	26	26																														
STATE CENTER	MAX	44	47	51	44	42	43	33	23	26	40	57	26	20	21	37	46	43	44	42	22	19	20	26	38	23	37	47	41	50	44		
	MIN	39	20	32	27	24	31	21	8	18	25	26	14	13	3	12	29	32	27	35	22	14	10	-2	0	20	7	15	19	19	29	39	
STORM LAKE 2E	MAX	43	48	49	45	43	45	42	21	24	34	52	24	16	22	35	43	43	44	38	38	15	14	17	26	36	28	40	50	43	52	50	
	MIN	32	26	35	26	22	20	19	1	10	24	24	5	4	-1	8	21	17	11	25	14	5	8	-3	-2	15	0	15	15	10	18	25	
TINLEY	MAX	45	50	57	47	47	49	40	26	26	47	60	38	29	28	40	46	45	42	44	42	23	20	30	35	38	27	41	48	46	50	46	
	MIN	30	17	28	20	13	26	20	2	10	20	32	3	7	-1	7	20	24	22	23	18	10	2	-10	-3	14	-4	8	18	17	26	35	
TIPTON	MAX	38	44	58	44	45	48	37	26	26	40	66	54	26	21	34	43	47	41	43	48	33	20	18	26	42	33	38	46	43	49	46	
	MIN	22	18	32	26	22	27	22	8	10	22	35	12	12	1	6	22	28	36	33	30	18	7	-6	2	24	13	16	22	24	26	38	
TOLEDO	MAX	41	45	56	47	46	47	34	22	23	38	59	40	21	21	39	44	47	49	43	42	24	18	17	29	39	28	40	50	41	52	44	
	MIN	24	20	32	27	21	26	22	6	10	22	36	10	12	2	7	23	31	27	29	24	14	7	-6	-2	22	3	13	18	19	26	37	
TRIPOLE	MAX	39	39	52	42	43	38	32	22	20	35	56	56	20	12	36	40	45	43	40	42	27	12	15	22	38	25	32	43	40	44	43	
	MIN	21	17	30	26	20	23	20	3	5	19	34	10	7	0	2	20	29	23	28	25	12	8	-9	-10	18	0	14	11	15	23	37	
VINTON	MAX	38	41	47	48	44	46	36	24	22											45	44	43	42	28	19	16	25	38	29	37	45	49
	MIN	28	18	32	28	19	21	21	8	8											30	29	30	28	16	10	-7	-5	24	6	12	15	17
WASHINGTON	MAX	46	47	60	50	48	51	37	25	26	44	67	30	29	30	40	44	49	43	44	50	34	24	21	31	40	33	40	53	43	57	45	
	MIN	25	17	31	28	20	26	22	8	12	24	29	12	12	11	5	23	30	35	36	32	18	8	0	8	28	13	15	21	25	27	40	20.6
WATERLOO	MAX	39	41	52	43	41	41	29	22	25	38	58	37	17	16	39	42	45	43	41	42	24	18	13	25	38	23	34	45	37	46	44	
	MIN	24	22	30	26	19	25	19	4	7	23	33	9	8	0	4	21	30	23	26	24	12	8	-10	-8	22	-1	13	11	15	25	38	
WAUKEG	MAX	44	50	54	47	46	46	40	25	28	38	62	32	20	22	40	46	47	41	44	43	24	19	22	30	40	26	40	50	43	51	45	
	MIN	36	26	34	32	22	30	25	6	16	26	32	10	12	2	11	27	32	22	32	24	15	10	-4	0	20	6	14	22	22	27	40	
WAUKON	MAX	34	31	44	39	38	31	27	34	20	32	52	32	16	14	30	37	42	40	38	39	26	16	8	18	37	21	30	41	34	41	42	
	MIN	17	19	25	26	22	22	19	1	8	10	32	9	2	-2	-2	19	30	24	24	25	12	0	-9	-5	16	-3	10	18	12	12	32	
WEBSTER CITY	MAX	42	48	52	44	42	42	35	32	37	58	26	19	17	39	43	44	37	41	41	17	17	18	26	39	21	40	52	38	52	44		
	MIN	22	30	31	25	17	24	15	4	9	25	8	7	-1	7	21	28	17	30	16	8	11	-2	-1	18	-1	15	13	12	26	33		
WILLIAMSBURG	MAX	41	44	60	45	46	48	35	24	25	41	63	40	25	20	37	43	47	40	43	43	28	21	18	28	39	28	39	47	39	47	43	
	MIN	23	17	31	26	22	27	21	7	10	23	39	11	12	2	5	22	39	31	30	26	15	5	-8	1	23	8	12	18	21	21	39	
WINTHROP	MAX	47	50	57	48	48	49	40	22	25	42	62	36	25	28	40	44	47	44	43	43	25	22	32	39	40	28	41	48	42	52	52	
	MIN	32	23	38	25	20	30	22	9	17	24	35	8	11	2	11	26	30	21	29	23	14	-3	-5	0	19	0	15	21	19	26	38	
WOODWARD 7W	MAX	44	47	52	46	45	41	41	26	25	38	59	37	24	22	40	44	45	45	42	42	25	17	20	26	38	24	42	50	40	51	48	
	MIN	34	23	35	27	19	28	25	5	14	24	36	9	11	1	11	24	30	30	33	24	11	13	-4	1	19	-1	15	20	19	25	36	

DELAYED DATA

JUNE 1949		MAX	76	79	79	79	76	78	70	70	70	84	86	86	79	70	76	78	80	87	85	87	79	84	79	78	82	84	87	81	94	88	
DUBUQUE L AND D 11		MIN	64	62	62	58	56	60	51	44	50	60	61	67	69	61	56	55	61	65	68	70	66	62	64	63	65	72	70	67	64	71	
EBOVAE WB CITY		MAX				83	82	87	75	72	75	83	81	86	79	75	82	85	88	90	90	91	84	89	85	89	89	81	91	87	92	97	
		MIN				68	64	68	54	48	55	62	64	66	66	61	58	63	65	67	72	71	66	62	68	67	71	71	73	71	72	79	
LAWONT		MAX	82	80	83	80	80	86	80	73	74	80	82	85	80	78	82	82	86	85	88	92	87	83	90	86	85	82	87	85	86	92	
		MIN	61	60	60	60	58	66	57	54	58	57	61	64	61	65	52	58	61	66	70	70	66	62	66	63	62	70	68	64	66	71	
SPENCER IN		MAX	82	74	76	75	80	75	73	68	79	86	90	90	72	73	83	88	94	72	82	94	83	83	85	80	88	84	86	83	93	93	
		MIN	57	54	47	50	47	52	46	53	52	53	58	65	54	52	48	61	65	59	60	68	61	62	63	62	60	55	63	60	63	73	
AUGUST 1949		MAX	82	79	80	80	88	89	83	95	93	92	89	82	83	84	86	87	89	80	75	74	77	82	86	89	90	91	88	80	80	81	78
COLUMBUS JUNCTION		MIN	63	57	59	57	59	68	66	67	68	69	70	69	68	67	69	65	68	64	62	53	49	49	54	58	61	62	65	60	58	48	
SEPTEMBER 1949		MAX	76	86	82	78	71	68	68	72	82	79	72	78	72	66	74	71	80	82	76	76	76	72	66	75	77	82	69	62	66	74	
DECORAH		MIN	33	54	50	42	39	44	52	36	36	41	55	60	42	32	40	48	59	42	45	32	50	54	36	30	40	52	44	38	21	28	
GUTTENBERG L AND D 10		MAX	72	75	72	80	78	72	65	74	75	75	69	84	71	65	70	68	69	80	70	72	72	68	72	75	80	70	62	63	72		
		MIN	38	53	58	61	53	47	53	42	42	41	55	60	44	38	46	48	58	51	47	39	52	47	38	35	44	50	47	42	27	35	
OCTOBER 1949		MAX	74	70	80	69	67	78	84	84	65	61	57	75	69	72	71	70	75	72	73	61	54	62	50	51	51	54	60	68	64	46	
AUDUBON 2S		MIN	40	51	56	50	47	55	61	60	42	41	43	35	38	41	42	44	44	47	50	52	34	27	35	26	35	23	36	39	35	25	
NOVEMBER 1949		MAX	62	58	45	45	51	67	74	68	66	74	65	49		52	38	39	38	37	63	55	33	42	39	31	31	39	52	50	43		
DECORAH		MIN	31	33	16	29	16																										

SNOWFALL AND SNOW ON GROUND

IOWA
DECEMBER 1949

Table 7

Station	Day of month																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Algona	SNOWFALL SN ON GND	0.8 T							1.0 1	T													0.5		T	T	T							
Ames 3 SW	SNOWFALL SN ON GND	T							T	T												0.6 1	1.4 2	2	1	1	1	T						
Atlantic AP CAA	SNOWFALL SN ON GND							T	1.6 2		T											1.7 2	T	1	1	T	T	T	T					
Burlington WB Airport	SNOWFALL SN ON GND							T	T	T												T	0.1 T	T	T	0.4 T	0.2 1	T	T					
Castana 4 E	SNOWFALL SN ON GND								0.8		T	T	T	T	T	T						T	T	T										
Cedar Rapids No. 1	SNOWFALL SN ON GND		T					T	T														2.3 2	T	T	2	2	2	1	0.1 1	T	1	1	T
Cherokee	SNOWFALL SN ON GND								1.0 T		T	T	T	T	T	T							T	T	T	T								
Clinton No. 1	SNOWFALL SN ON GND	T						T	0.4 T		T												0.3 T	0.7 1	T	1	1	0.1 T	0.7 1	T	T			
Council Bluffs 5 NE	SNOWFALL SN ON GND								0.3		T												0.7											
Davenport WB City	SNOWFALL SN ON GND	T						T	0.4 T				T										0.5 1	0.4 1	T	1	1	0.7 T	T	1	1	T	T	T
Decorah 2 S	SNOWFALL SN ON GND	3.0 1	1.0		3			1.0 1	T	3.0 3	3.0 3												3.5	0.5 4			0.2							
Denison 1 S	SNOWFALL SN ON GND								0.5 T														T											
Des Moines WB Airport	SNOWFALL SN ON GND	T						T	T	T			T										1.7 1	0.2 2	T	2	2	1	T	T	T	T		
Dubuque WB City	SNOWFALL SN ON GND	2.7 3	1					0.3 T	T	2.3 2	T	1			T								1.1 1	1.7 2	T	2	2	1	1	1	1	1	T	T
Fort Dodge	SNOWFALL SN ON GND	T	T						T	1.0 1				T										T	T	T								
Grinnell	SNOWFALL SN ON GND							T	T	T														2.5 2	2	2	2	2	1	1	T	T	T	
Guthrie Center	SNOWFALL SN ON GND	T							1.2 1														0.7 1	1	1	1	1	T	T	T				
Iowa City AP CAA	SNOWFALL SN ON GND	T						T	T	T													1.1 1	0.7 2	T	2	2	1	1	1	1	1	1	T
Iowa Falls 1 N	SNOWFALL SN ON GND	T	T						0.2 T	2.0 2														2.5 2	2	2	2	2	1	1	T	T		
Keokuk WB City	SNOWFALL SN ON GND									T	T	T												1.0 1	T	T		0.5 T	T	T				
Lamoni AP CAA	SNOWFALL SN ON GND								T	T													3.0 1	0.6 4	4	-	-	-	-	-	-	-	-	
Maquoketa 5 E	SNOWFALL SN ON GND	2.0 2	1					0.2	2.0 2	T	T												3.0 3	0.5 3	T	3	3	T	2	2	2	2	1	T
Marshalltown	SNOWFALL SN ON GND																							2.5 2										
Mason City AP CAA	SNOWFALL SN ON GND	1.9 2	1				T	T	0.5 1	T	1	T	T	T									T	T	T	0.1 T	T		0.1 T					
Norwich 2 E SCS Farm	SNOWFALL SN ON GND								1.0 1														4.0 4	1.0 5	5	3	3	2	2	1	1	T		
Oelwein	SNOWFALL SN ON GND	2.0							3.0 3														1.0	2.0 3	3									
Osceola	SNOWFALL SN ON GND								T	T			T										0.5 T	1.3 2	2	1	T	T	T					
Oskaloosa	SNOWFALL SN ON GND							T		T														2.0 2	T	2	2	2	2	2	0.1 1	1	T	
Ottumwa AP CAA	SNOWFALL SN ON GND							T	T	T													1.9 2	0.2 2	2	2	2	1	1	1	T	T	T	
Rock Rapids	SNOWFALL SN ON GND							T	2.0	1	1.5 1	2.0 3	3	3	3	3	1	1	1	1	T			T	T	T	T	T	T	T				
Saratoga 2 E	SNOWFALL SN ON GND	5.0 5						2	2	2													-	4										
Shenandoah	SNOWFALL SN ON GND								0.5 T															T	T	3.0 3	2.0 5	4	3	1	1	T		
Sioux City WB Airport	SNOWFALL SN ON GND	T			T			T	0.2	1.3 1		T	T	T	T								T	T	T	T		T						
Waterloo	SNOWFALL SN ON GND	T	0.7 1						*	0.5 T														2.0 2		2	2	2	2	0.1 2	2			

See reference notes following Station Index.

STATION INDEX

IOWA
DECEMBER 1949

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9 41 02	94 12	1200	6P	6P	Fred E. Lamb	2 3 5	Morse 1 mi. NE	5737	Johnson	10 41 45	91 25					Lawrence J. Wall	3 4	
Alexa	0088	Plymouth	1 42 49	96 33	1153	6P	6P	Orland C. Moore	3	Morse 4 mi. SSW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4	
Albia	0112	Monroe	6 41 02	92 48	849	8P	7P	Arthur L. Freed	2 3 5	Mount Ayr 2 mi. N	5769	Ringgold	9 40 44	94 14	1214	6P	6P	H. L. Cornelius	2 3 4 5		
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	Mount Pleasant	5796	Henry	21 40 57	91 32	730	6P	6P	A. W. Patterson	2 3 4 5		
Allerton	0149	Wayne	9 40 42	93 23				Herman E. Reddy	3 4	Moville	5823	Woodbury	11 42 29	96 04					Einar W. Widmark	3 4	
Allison	0157	Butler	4 42 46	92 47	1069	7P	7P	D. Tellinghuisen	2 3 5	Muscataine No. 1	5837	Muscataine	14 41 28	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5		
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Muscataine No. 2	5842	Muscataine	14 41 25	91 03	545	7A	7A	Robert B. Hagy	3		
Alton	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Muscataine 6 mi. N	5847	Muscataine	14 41 30	91 03					Bureau of Entomology	3 4	
Alton	0205	Story	21 42 00	93 39	1004	7P	7P	Charles N. Brown	2 3 4 5 6 7	New Hampton	5952	Chickasaw	27 43 04	92 19	1156	7P	7P	Loddy Hrdlicka	2 3 5		
Alton	0213	Jones	27 42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Newton	5992	Jasper	21 41 42	93 04	950	7P	7P	Al A. Scheel	2 3 5		
Altamont 1 mi. E	0584	Cass	16 41 24	94 59	1110	8P	7A	Roy L. Fancollly	2 3 5	North English	6076	Iowa	4 41 29	92 05	780				Ernest E. Andrews	3 4	
Altamont 2 mi. E	0369	Cass	16 41 24	95 02	1152	MID	MID	Airways Com. Sta.	2 3 4 5 7	Northwood	6103	Worth	4 43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5		
Altamont 2 mi. S	0385	Audubon	16 41 42	94 57	1297	8P	6P	Ralph E. Kirby	2 3 5	Norwich SCS Exp Farm	6119	Page	22 40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5 6 7		
Altamont 3 mi. S	0389	Des Moines	31 40 46	91 17	522	7P	5A	Glen Wood	3	Oakland 2 mi. E	6151	Pottawattamie	15 41 19	95 23	1150	6P	6P	Ward D. Wainete	2 3 5		
Altamont 4 mi. S	0463	Kossuth	6 43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Oasis	6156	Johnson	10 41 43	91 24					Ed. Kaders	3 4	
Altamont 5 mi. S	0493	Fremont	26 40 53	95 44				R. L. Kilpatrick	3 4	Delwain	6200	Fayette	27 42 40	91 53	1036	8P	8P	Hilo M. Frane	2 3 5 7		
Altamont 6 mi. S	0549	Boone	6 42 02	94 08				Virgil J. Stark	3 4	Onawa	6243	Monona	15 42 02	96 06	1030	7P	7A	W. J. Oliver	2 3 5		
Altamont 7 mi. S	0576	Taylor	28 40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Osage	6305	Mitchell	4 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5		
Altamont 8 mi. S	0660	Benton	10 41 54	92 17	855	7P	7P	Walker C. Rabe	2 3 5	Osceola	6316	Clarke	6 41 02	93 48	1136	6P	6P	Ray A. Kerns	2 3 5 7		
Altamont 9 mi. S	0696	Jackson	14 42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Oskaloosa	6327	Mahaska	6 41 17	92 40	813	8P	8A	Cliff Bergstromer	2 3 5 7		
Altamont 10 mi. S	0745	Taylor	19 40 36	94 29	1081	5P	5P	Glenn A. Cobb	3	Ottumwa 1 mi. SSW	6386	Wapello	6 41 01	92 26	649	7P	7P	Closed	11-4-49		
Altamont 11 mi. S	0753	Davis	8 40 47	92 28	825	7P	7P	Mrs. Leo Foster	2 3 5	Ottumwa AP CAA 5 mi. W	6389	Wapello	6 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5 7		
Altamont 12 mi. S	0807	Boone	6 42 04	93 53	1126	8P	8P	E. G. Kolb	2 3 5	Ottumwa	6391	Wapello	6 41 00	92 24	620	7A	7A	Winfrey Kinneer	3		
Altamont 13 mi. S	0809	Boone	6 42 05	93 56	872	7P	7A	Andrew Lindblom	2 3 5	Pella	6527	Marion	8 41 24	92 55	875	8A	8A	E. C. Benning	3		
Altamont 14 mi. S	0923	Hancock	10 43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Perry 2 mi. SE	6566	Dallas	20 41 51	94 06	975	7P	7P	Eugene H. Hastie	2 3 5		
Altamont 15 mi. S	1063	Des Moines	14 40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Pocahontas	6719	Pocahontas	6 42 44	94 40	1228	5P	5P	Thomas A. Mc Mahon	2 3 5		
Altamont 16 mi. S	1233	Carroll	20 42 04	94 52	1280	7P	7A	Bee H. Schenkelberg	2 3 5	Pringhar	6800	O'Brien	11 43 05	95 38	1517	6P	6P	B. A. Ballard	2 3 5		
Altamont 17 mi. S	1257	Dubuque	12 42 18	91 00	880	7P	7P	C. J. Weiers	2 3 4 5	Red Oak	6840	Montgomery	16 41 01	95 13	1077	8P	8P	Clarence W. Totty	2 3 5		
Altamont 18 mi. S	1277	Monona	11 42 04	95 49				Bob Zimmerman	2 3 5 7	Red Oak 1 mi. NW	6841	Montgomery	16 41 01	95 14					Mrs. E. W. Cozad	3 4	
Altamont 19 mi. S	1300	Black Hawk	4 43 32	92 27	875	7P	7P	E. J. Cable	3	Remsen	6875	Plymouth	7 42 49	95 58					Municipal P & L Pl.	3 4	
Altamont 20 mi. S	1319	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster	2 3 5 7	Ringsted	7058	Emmet	6 43 18	94 30					Harvin A. Trees	3 4	
Altamont 21 mi. S	1324	Linn	4 41 58	91 40				C. M. Simon	3	Riverport	7085	Fremont	16 40 41	95 35	920	7P	7P	William Stubbs	3		
Altamont 22 mi. S	1354	Appanoose	5 40 43	92 52	1013	7P	7P	Earl McIntire	2 3 4 5	Rock Rapids	7147	Lyon	1 43 36	96 10	1341	7P	7P	George Ravelling	2 3 5 7		
Altamont 23 mi. S	1394	Lucas	3 41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Rockwell City	7161	Calhoun	20 42 24	94 37	1223	7P	7P	F. C. Bellenspacher	2 3 4 5		
Altamont 24 mi. S	1402	Floyd	4 43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Sac City	7312	Sac	20 42 28	94 59	1274	8P	8P	F. Floyd Wary	2 3 5		
Altamont 25 mi. S	1442	Cherokee	11 42 45	93 33	1358	7P	7P	J. Earl Warth	2 3 4 5 6 7	Saint Ansgar 2 mi. S	7326	Mitchell	4 43 21	92 59					Irvin L. Halverson	3 4	
Altamont 26 mi. S	1528	Cedar	4 41 53	91 03				Ronald W. Harness	3 4	Saint Charles	7340	Madison	6 41 16	93 47					Rose E. Wine	3 4	
Altamont 27 mi. S	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Sanborn	7386	O'Brien	7 43 11	95 39	1552	7P	7P	Miss Marie O'Dow	2 3 5		
Altamont 28 mi. S	1541	Wright	2 42 44	93 44	1170	7P	7P	George Reader	3 5	Saratoga 2 E	7410	Howard	22 42 22	92 22					Don A. Fairchild	2 3 5 7	
Altamont 29 mi. S	1635	Clinton	14 41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Sheffield	7572	Franklin	4 42 54	93 13					Richard J. Galvin	3 4	
Altamont 30 mi. S	1640	Clinton	14 41 50	90 11				David M. Swift	3	Sheldon	7594	O'Brien	7 43 10	95 51	1418	7P	7P	Ross E. Forward	2 3 5		
Altamont 31 mi. S	1731	Louisa	10 41 17	91 22	595	6P	6P	Alice Best	2 3 5	Shell Rock	7602	Butler	4 42 43	92 35					Elmer J. Appel	3 4	
Altamont 32 mi. S	1795	Carroll	20 41 51	94 39				Charles W. Smith	3 4	Shenandoah	7613	Page	16 40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5 7		
Altamont 33 mi. S	1833	Adams	17 41 00	94 45	1285	7P	7A	W. Karl Gibson	2 3 5	Sibley	7694	Osceola	1 43 24	95 45	1494	6P	6P	R. D. Stewart	2 3 5		
Altamont 34 mi. S	1888	Pottawattamie	15 41 20	95 49				Mrs. R. O. Crane	3 4	Sidney	7699	Fremont	16 40 45	95 38	1050	6P	6P	James B. Shearer	2 3 5		
Altamont 35 mi. S	1890	Pottawattamie	15 41 19	95 49				Perry C. Crandall	2 3 5 7	Signourney	7678	Keokuk	21 41 20	92 12	780	7A	7A	Sarah A. Sanderson	2 3 5		
Altamont 36 mi. S	1954	Howard	23 43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Sioux Center	7790	Sioux	1 43 05	96 12	1456	8P	8A	Richard J. Kroon	3 4		
Altamont 37 mi. S	1962	Union	19 41 03	94 22	1300	7P	7A	Wesley Spangler	2 3 5	Sioux City 2 mi. N	7793	Plymouth	15 42 36	96 24					Leu Vondrak	3 4	
Altamont 38 mi. S	2007	Cass	17 41 18	94 55	1225	6P	6P	Carl E. Pollock	2 3 5	Sioux City WB Airport	7798	Woodbury	15 42 23	96 23	1093	MID	MID	U.S. Weather Bureau	2 3 4 5 7		
Altamont 39 mi. S	2026	Ida	11 42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sioux City 4 mi. N	7713	Woodbury	11 42 32	96 25					Dan McKelvey	3	
Altamont 40 mi. S	2057	Humboldt	8 42 44	94 12	1133	7P	7P	H. S. Brandagard	2 3 4 5	Sioux Rapids	7726	Buena Vista	11 42 53	95 05	1275	7P	7P	W. A. Simonsen	2 3 5		
Altamont 41 mi. S	2059	Scott	14 41 30	90 36	579	MID	MID	U.S. Weather Bureau	2 3 5 7	Sloan	7738	Woodbury	12 42 14	96 14	1071	7A	7A	Closed	11-1-49		
Altamont 42 mi. S	2110	Winnebago	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Soldier	7774	Monona	15 41 59	95 46					John T. Wade	3 4	
Altamont 43 mi. S	2112	Winnebago	24 43 18	91 48	880	7P	7A	Charles Carlson	2 3 5 7	Spencer 1 mi. N	7844	Clay	11 43 10	95 12	1331	MID	MID	Radio Station KICD	2 3 4 5 7		
Altamont 44 mi. S	2136	Delaware	12 42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Spillville	7855	Winnebago	14 43 12	91 57					Louis J. Benda	3 4	
Altamont 45 mi. S	2171	Crawford	4 42 00	95 22				E. W. Hugg	2 3 5 7	State Center	7925	Marshall	10 42 01	93 10	1068	7P	7P	Orin A. Sweet	2 3 5		
Altamont 46 mi. S	2195	Lucas	5 40 56	93 37				Lloyd A. Kirk	3 4	Storm Lake 2 mi. E	7979	Buena Vista	20 42 38	95 11	1455	8P	8P	Radio Station KAYL	2 3 5		
Altamont 47 mi. S	2203	Polk	6 41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Strawberry Point	8009	Clayton	14 42 41	91 31					W. H. Zwanziger	3 4	
Altamont 48 mi. S	22																				

CORRECTIONS

Annual 1948, Hornick, Table 2, July precipitation should be 3.33 and the annual total 22.21.
 Iowa City Ralston 4, Table 2, June precipitation should be 3.55 and the annual total 29.82.
 Mason City AP CAA, Table 1, May temperature departure should be -2.3.
 Mondamin, Table 2, April precipitation departure should be .50.
 Riverton, Table 2, April precipitation departure should be -.38 and the annual departure .46.
 January 1949, Table 2, total snowfall should be as follows: Afton 16.5, Alta 11.0, Decorah 17.5, Guttenberg Lock and Dam 12.0, Sac City 10.6, and Shenandoah 11.6. Oelwein, total snowfall should be 18.0, total precipitation 2.49, departure from normal 1.41, days with .01 or more 7, and days with .25 or more 5.
 March 1949, Allison, Table 2, total snowfall should be 2.0.
 Clarinda, Table 2, maximum depth on ground should be 3 on the 15th.
 Sigourney, Table 2, total snowfall should be 1.0.
 June 1949, Tabor 6 NW, Table 3, on the 29th precipitation should be .39 and the monthly total 11.06. Table 4, on the 29th hourly amounts should be as follows: 6AM .16, 7AM .10, 8AM .11, 9AM .01, 11AM .01, and total .39.
 July 1949, Des Moines WB City, Pressure, Wind, and Humidity Table, relative humidity should be as follows: 1:30AM EST 82, 7:30AM 88, 1:30PM 62, 7:30PM 80. The hail damage map referred to in last paragraph of the Weather Summary appeared on page 154 in the August issue.
 August 1949, Grinnell, Table 4, on the 19th delete dashes and insert daily total of .18; on the 27th delete dashes.
 November 1949, Hartley 3 S, Table 3, delete dashes on the 11th through the 30th and insert amounts as follows: 23rd .04, 24th .04, monthly total .08.
 Hartley 3 S, Table 4, on the 11th delete dashes and on the 23rd add amounts as follows: 5PM .02; 6PM .02, total .04; on the 24th, 2AM .01 3AM .01, 4AM .01, 5AM .01, total .04; on the 30th delete dashes.



REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperatures in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5 and 6 are for the 24 hours ending at time of observation. See the Station Index for observation time.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Precipitation measured at 6-hourly intervals, no recording gage.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

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U. S. DEPARTMENT OF COMMERCE
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WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

ANNUAL SUMMARY 1949

Volume LX No. 13



KANSAS CITY: 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

On the whole, the year 1949 in Iowa was warm and dry. The average temperature for the year was 49.2°, which was 0.6° above the normal. The average precipitation for the year was 28.06 inches, which was 3.31 inches below the normal. The distribution of precipitation was not uniform. Small areas, including the Big Sioux, Floyd and Boyer Valleys, much of the southern third of the State, and the area between the big bend of the Mississippi, had normal precipitation or considerably above normal. In the remainder of the State, precipitation deficiencies at the close of the year varied from four to fourteen inches. In a few localities, precipitation was deficient for nine consecutive months, April through December. The lack of precipitation showed in the streamflow in central Iowa, which according to the records of the Geological Survey, was below normal May through December and among the four lowest years of record July through December. Before the end of the year shallow wells had gone dry in critical areas and farmers were hauling water. In other areas where the deficiency in moisture was especially severe in the critical months of June, July and August, the corn crop suffered greatly.

The year 1949 saw the greatest infestation of corn borer in the history of corn in Iowa. Early prospects for another bumper crop were cancelled by the persistence of dry weather in some sections and by the corn borer pest in all sections. Outstanding weather events of the year were the flooding of the town of Missouri Valley in March, the tornadoes in Page county in June, and the widespread damage caused by wind in October.

The month of January, 1949 opened with mild weather which continued through the middle of the month. The latter half of the month was in sharp contrast to the first half, with frequent storms and below normal temperatures. The extreme low temperature for the year was recorded at two different locations, Sibley and Elkader, on different dates, the 22nd and the 30th. The most severe storm of the year occurred on the 27th-28th in connection with a low pressure center which moved rapidly from New Mexico into southwest Missouri. Most of the State received from 6 to 14 inches of snow, driven by biting northwesterly winds. Transportation was interrupted and schools were closed. The total precipitation for the month, 2.72 inches, was the greatest for any January of record.

The extreme low temperature for the year was equalled on February 2nd, at Decorah and Fayette. Both temperature and precipitation were somewhat lower than normal for February. An average snow cover of 5.0 inches, added to the 12.7 inches in January, constituted a real flood threat. Mild weather towards the close of the month moved much of the moisture into the streams. However, the thawing was checked by a sharp freeze on the 25th and the flood threat was averted. There was an ice gorge in the lower Des Moines river near Chillicothe which demolished a three-span bridge. The jam extended upstream to the vicinity of Eddyville where the overflowing river threatened several residences.

The flood threat climaxed during the mild weather of the first five days of March. There was sufficient freezing at night to slow the movement of moisture into the streams, so that serious flooding occurred only in the western counties where the Boyer and the West and East Nishnabotna rivers overflowed their banks. The most serious flooding was at Missouri Valley where levees holding back the Boyer broke, followed by inundation of most of the business district and the southern portion of town. The town was without gas, heat or normal drinking water supply. It was considered the worst flood in 52 years. Local overflows occurred elsewhere in the State, with considerable flooding of farm lands. Cold weather on the 6th checked the flooding, and the cool weather continued through the 20th. The last of the month was generally mild and wet.

In April precipitation was less than half the normal amount, and stream flow was below normal in the central portion of the State. In many localities this was the beginning of a moisture deficiency which was to continue for the remainder of the year. The effects were not immediately apparent, since there was ample moisture for all agricultural needs. In the middle of the month a general storm blanketed all of the State except for the southeast with two inches or more of snow. The heaviest fall, 10 inches, occurred at Fayette. Strong winds drifted the snow, disrupted highway traffic, and damaged power and telephone lines. The storm was followed by below freezing temperatures throughout the State. In the Muscatine area truck growers were reported to have lost some 400,000 early tomato plants.

May was warm and dry. The greatest deficiency in moisture was in the central and northeastern counties. The accumulated deficiency had not become serious, and there was still ample moisture for agricultural needs, except that further rains were required to maintain meadows and pastures. Corn was generally planted by the close of the third week. Small tornadoes causing limited damage were reported at Stuart in Guthrie county on the 16th, at Pittsburg and near West Point, on the 20th.

Copious rains in June interrupted the dry weather. The rains were especially beneficial in southern and eastern sections. However, a wide area covering the northwest and adjacent areas in the central part of the State continued with below-normal totals. In many instances the rains came in torrential downpours which were very damaging. Such downpours occurred at Knoxville and Council Bluffs, and near many smaller communities. Some of the storms were accompanied by hail: One near Dow City was particularly destructive to corn. Tornadoes struck with great violence in Page county on the 1st of the month. Four persons were injured and the total property, livestock and crop damage was estimated at \$400,000. As the month closed, it was noted the weather had been exceptionally favorable for the growth and development of the food crops. Corn was the farthest advanced of record; the first crop of clover had been cut; and wheat was ready for harvest. The weather had also been favorable for the corn-borer, and that insect threatened the greatest damage in the history of corn in Iowa.

While the State average precipitation for July was slightly below the normal for the month, there were marked local differences. A large area in central Iowa, extending roughly from Sac City to Webster City to Marshalltown to Jefferson, and comprising the greater portion of seven counties, received less than one inch of precipitation. Deterioration of the corn crop in this area appeared inevitable. More generally, the crop situation continued favorable until the middle of the month, after which a decline in crop prospects was brought about by the lack of moisture and by widespread corn-borer damage. At the close of the month, 80 per cent of the corn crop had silked and had passed the critical pollinating stage.

The dry weather became more general in August. The State average was approximately two-thirds of the normal amount. However, this average concealed remarkable local variations. The least monthly total at any station was 0.07 inch at Toledo in Tama county. The greatest monthly total was 8.93 inches at Davenport. The latter amount included a 24-hour fall of 6.57 inches on the 11th, the greatest 24-hour fall of record for that city. Another record was broken in Des Moines where 3.44 inches fell within two hours, the greatest 2-hour fall for that location. Very heavy rains were also reported from Clinton, Tipton and Moline, Illinois. In the Quad-City area storm damages were estimated at one million dollars and two boys lost their lives as a result of the storm. By the last of the month corn was 2/3 dented, which stage of development was a full week ahead of the previous year.

September was the coolest month of that name since 1924 and one of the five coolest of record. A state-wide killing frost occurred on the 29th of the month which effectively ended the growing season for 1949. A low temperature of 16° was reported at the Howard County Experimental Farm, Saratoga. Rainfall for the month averaged 80 per cent of normal, with most of the rain falling in the first 12 days. The remainder of the month was dry and cool. As the month closed there were indications that the corn harvest would be the earliest of record. On the other hand, lack of moisture delayed fall plowing and rain was needed for winter wheat seedings.

In October the pattern of deficient rainfall was continued with the average for the State approximately 5/6 of the normal. Temperatures averaged more than 3 degrees above the normal. The mild, open weather was favorable for outside activity most of the month. By the close of the month 2/3 of the corn crop had been harvested and fall plowing had been 3/4 completed. The outstanding feature of the month's weather was the windstorm of October 10. Extreme gusts reached 90 m.p.h. at Mason City. While high winds were general over the State, the extreme velocities occurred in the northern counties. Extensive damage was reported, with the greatest loss to the corn crop. Reports indicated 5 to 7 1/2 bushels per acre dropped corn, which had to be gleaned from the fields or harvested by livestock. Insurance payments (one large insurance brokerage firm reported 20,000 claims), were estimated at three million dollars, but the total damage could not be estimated and would likely be many times the amount of the insurance claims.

The following month was the 6th warmest and 6th driest November of record. Temperatures averaged more than 5 degrees above the normal and the total precipitation was less than 1/2 inch. The mild open weather was very favorable for outdoor activity, and by the 12th of the month 90 per cent of the corn crop had been harvested. The harvest was one to three weeks ahead of recent years and was one of the earliest of record. The effects of the cumulative deficiency in moisture were becoming more widespread, with shallow wells in critical localities going dry and some farmers compelled to haul water.

The month of December was mild with precipitation for the State averaging slightly above the normal. Except for the northeastern counties, the month was open with little snow. While the State precipitation averaged above normal, moderate to heavy precipitation occurred only in the southeastern and east central sections. In the remainder of the State, the pattern of deficient precipitation continued. -- C.E.L.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

IOWA
1949

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	
Afton	17.3	-4.6	20.3	-5.6	35.7	-2.4	49.4	-1.3	-	-	71.3	.1	74.4	-2.2	70.5	-3.8	58.0	-7.8	54.2	.0	44.3M	4.7	28.7	1.9	-	-	-
Albia	21.3	-1.8	23.8	-1.8	37.4	-.6	50.5	.0	65.1	3.5	73.3	2.7	76.5	.4	73.4	-.6	60.8	-5.2	57.9	3.6	44.6	4.8	31.1	4.1	51.3	1.1	48.0
Algona	16.0	-.7	16.9	-2.7	32.2	-.9	48.5	.9	63.1	3.5	71.9	3.1	75.7	1.7	72.3	.9	59.5	-3.6	54.9	3.8	41.0	5.6	24.4	2.6	48.6	1.7	47.8
Allison	17.2	.7	17.9	-2.6	32.9	-.6	49.3M	2.2	63.5	4.2	72.7	3.9	76.7	2.7	73.2	2.0	59.3	-3.3	55.1	3.6	40.7	5.3	24.5M	2.6	48.6	1.7	47.8
Alta	15.0	-2.6	15.9	-4.3	32.1	-1.1	48.5	1.2	63.0	3.0	71.4	2.5	75.9	1.9	73.0	.4	59.1	-4.3	54.2	2.7	41.6	5.9	24.6	1.9	47.8	1.3	47.8
Alton	15.3	-1.5	18.2	-3.0	33.9	.7	50.3	3.0	63.5	4.5	71.8	2.9	76.8	2.3	72.9	.9	59.9	-3.4	54.9	4.3	43.7	8.3	26.3	4.0	49.0	2.0	48.9
Ames 3 SW	17.8	-2.1	18.7	-4.1	34.4	-1.5	48.9	-.1	63.2	2.6	72.7	2.7	75.7	.8	72.7	.3	58.9	-5.5	53.6	3.0	41.6	4.0	27.3	2.9	48.9	1.2	48.3
Anamosa 1 NW	19.3	.3	20.8	-1.2	33.7	-.5	47.5	-.1	61.3	1.4	71.1	1.9	75.5	1.7	71.9	-.2	57.4	-5.7	54.0	1.9	39.7	2.9	27.4	3.2	48.3	-.2	49.5
Atlantic 1 E	17.4	-3.9	19.3	-4.9	35.1	-2.0	50.0	.0	64.2	3.1	72.7	2.3	76.1	.1	72.5	-1.3	59.6	-5.6	56.6	3.5	43.2	4.8	27.9	2.3	49.5	-.2	47.8
Atlantic AP CAA	16.5	-4.6	18.1	-6.1	34.2	-2.9	48.1	-1.9	63.0	1.9	71.5	1.1	74.7	-1.3	70.4	-3.4	57.1	-8.1	53.4	.3	40.5	2.1	26.3	.7	47.8	-1.0	47.8
Audubon 2 S	15.0	-5.0	16.3	-6.4	32.1	-3.5	48.2	-.7	61.7	1.4	70.8	1.4	75.2	.2	72.3	-.4	58.4	-5.8	53.2	-.2	41.6	4.5	26.5	2.0	47.6	-1.0	47.6
Bancroft	13.5	-1.6	15.1	-2.8	30.7M	-.8	-	-	-	-	72.7	5.4	77.0	3.8	73.8	3.6	59.8	-2.0	55.5	5.7	41.4	7.4	24.4	3.9	-	-	-
Bedford 1 N	19.1	-4.2	22.5	-4.0	37.5	-1.2	51.3	.3	64.4	2.9	72.2	1.0	75.8	-.7	72.6	-1.5	60.3	-6.2	57.1	2.3	44.8	5.1	29.4	2.6	50.5	-.7	49.5
Belle Plaine	19.3	-.8	20.4	-2.9	35.0	-1.0	49.1	.0	63.7	3.0	72.6	2.9	76.4	1.2	73.5	1.2	59.0	-5.4	56.1	3.6	41.4	3.6	28.0	3.6	49.5	-.7	49.5
Bellevue Lock & Dam 12	22.8	1.5	24.1	.6	35.8	.6	46.1	.4	62.2	1.6	72.1	3.1	76.1	2.1	72.5	1.4	57.6	-6.4	54.7	3.5	40.3	1.6	28.5M	3.0	49.6	1.1	49.6
Bloomfield 2 N	21.5	-2.7	23.8	-3.7	37.2	-1.7	49.9	-.4	65.0M	2.9	72.6M	.9	76.5M	.8	-	-	-	-	56.5M	1.3	46.0M	7.5	31.7M	4.4	-	-	-
Boone	18.4	-1.6	19.7	-2.6	34.8	-1.7	50.4	1.5	64.7	4.5	74.7	4.7	78.4	2.4	74.8	1.9	60.5	-4.5	56.8	2.9	41.9M	3.9	27.7	2.7	50.3	1.2	45.7
Britt	13.6	-2.2	14.6	-4.3	30.1	-2.5	45.6	-1.2	62.6	3.9	72.0	4.0	75.6	2.2	71.6	.3	55.9	-6.6	51.7	1.2	35.4	.7	20.0	-1.4	45.7	-.5	45.7
Burlington WB Airport	23.7	-.2	25.3	-1.1	37.7	-.2	50.0	-1.4	68.2	3.1	75.0	3.5	79.1	2.3	74.5	.5	60.1	-6.3	57.2	2.4	43.1	3.5	31.4	3.7	51.9	1.0	51.9
Carroll	16.7	-2.5	18.6	-3.3	34.1	-1.0	50.3	1.9	64.0	4.1	73.0	3.9	77.1	2.4	74.0	1.9	59.9	-3.9	56.6	4.5	42.9	6.1	28.5	4.5	49.7	1.6	49.7
Cascade	19.9		20.8		34.2		47.9		61.7		71.4		75.8		72.3		57.4		53.9		39.4		28.9		46.5		46.5
Castana 4 E	15.4		17.8		33.3		49.5		62.7		71.2		76.0		72.6		60.8		54.6		43.2		26.6		48.6		48.6
Cedar Rapids No. 1	20.4	.2	21.8	-1.1	35.3	-.6	49.3	.3	63.3	2.2	72.4	2.1	76.6	1.0	73.2	.6	58.9	-6.0	56.1	3.3	41.6	3.6	28.3	3.5	49.6	.8	49.6
Centerville	22.3	-1.8	24.3	-2.5	38.5	-.3	50.8	-.4	65.4	2.7	73.6	2.0	77.6	.3	73.6	-1.1	60.8	-6.2	57.4	2.2	44.9	4.1	32.3	5.0	51.8	.3	51.8
Chariton 3 E	20.6	-2.3	22.6	-3.0	37.6	-.3	49.8	-.2	64.8	4.0	72.2	2.4	75.8	.4	72.1	-1.4	59.7	-6.0	-		44.2	4.2	29.9	2.9	-	-	-
Charles City	16.9	1.5	16.2	-2.3	31.8	-.5	47.9	1.2	61.5	3.0	72.0	4.2	75.5	2.4	73.0	2.7	58.0	-3.9	54.0	4.1	38.7	3.9	23.5	2.6	47.4	1.0	47.4
Cherokee	15.0	-2.4	16.2	-4.3	32.0	-1.6	48.5	1.0	62.7	3.1	71.0	2.4	75.4	1.3	72.8	.7	59.1	-4.6	54.1	2.9	41.7	6.6	24.8	2.0	47.8	-.1	47.8
Clarinda	19.4	-3.6	22.9	-3.3	37.7	-1.1	51.2	.0	65.0	3.2	73.1	1.8	76.4	-.3	72.8	-1.9	60.2	-5.9	56.4	1.9	43.9	4.1	29.2	3.4	50.7	-.1	50.7
Clarion	15.9	-1.1	16.5	-3.8	31.4	-2.3	47.7	-.1	62.0	2.5	71.5	2.5	75.2	1.0	72.5	1.0	58.3	-5.2	54.5	3.5	39.9	3.6	24.5	2.1	47.5	.3	47.5
Clinton No. 1	23.5	.5	25.3	.8	37.5	.7	50.3	.5	63.4	2.2	73.2	2.8	77.2	1.8	73.2M	.3	60.3	-4.8	57.7	4.1	42.0	2.5	31.0	3.7	51.2	1.3	51.2
Columbus Junction	23.4	.1	24.4	-1.0	38.0	-.1	50.7	.0	64.4	2.6	73.6	3.0	77.2	1.6	72.9	-.1	60.1	-5.2	57.3	3.0	43.9	4.0	31.7	4.3	51.4	1.0	51.4
Corning 1 W	18.2M	-4.3	-	-	36.6M	-.9	-	-	-	-	71.8	1.6	76.0	.4	73.6	.0	60.0	-5.5	55.8	2.0	43.2	4.1	28.6	2.2	-	-	-
Council Bluffs 5 NE	17.8		20.4		36.7		51.9		65.3		73.1		75.9M		72.4M		59.8		56.6		44.5		29.3		50.3		50.3
Cresco	15.4	1.4	16.2	-1.3	31.4	1.4	47.8	2.3	61.4	3.9	70.9	4.4	75.3	3.8	72.6	3.1	58.1	-2.0	-		37.7	3.5	22.1	2.0	-	-	-
Creston	18.3	-3.0	21.9	-3.5	-	-	50.3M	-.4	64.2	4.1	72.3	2.5	75.4	.0	72.4	-.8	58.7	-6.4	54.7	1.8	42.1	3.7	27.9	1.8	-	-	-
Cushing 3 NE	14.6	-4.1	15.7	-5.8	32.6	-2.1	48.9	.6	62.7	3.0	71.0	2.9	74.8	.6	71.9	-.6	59.0	-4.8	53.9	2.3	42.5	6.1	26.0	2.7	47.8	.1	47.8
Dakota City	16.0	-1.7	16.8	-4.0	32.4	-1.8	48.4	.3	62.9	3.2	72.2	3.3	76.1	1.7	73.1	1.5	59.9	-3.6	55.1M	3.4	40.9	4.6	25.4	2.4	48.3	.8	48.3
Davenport WB City	24.3	1.1	26.3	.9	37.8	.1	50.8	.7	65.0	3.1	75.0	3.7	78.9	2.1	75.0	.8	61.0	-5.4	58.2	3.5	42.7	2.5	31.6	4.2	52.2	1.4	52.2
Decorah	18.2		18.8		33.1		47.3		62.2		72.0		75.8		73.6		58.4		54.7		38.4M		24.2		48.0		48.0
Decorah 2 S	16.9	2.4	16.7	-.5	31.2	.2	44.7	-.1	59.2	2.0	68.8	3.3	72.4	1.4	69.5	-.7	55.4	-5.6	51.2	3.2	36.4	2.5	22.2	1.4	45.4	.8	45.4
Delaware 2 W	18.3	.6	18.4	-1.6	32.3	-.6	46.6	.0	61.8	2.9	71.2	2.8	73.5	.2	71.1	.7	56.1	-6.5	53.7	2.2	39.0M	3.6	24.8M	2.4	47.2	.3	47.2
Denison 1 S	15.6	-4.0	17.6	-5.0	33.0	-2.9	49.0	-.1	63.2	3.0	72.2	2.8	76.5	1.6	73.6	1.0	59.5	-4.9	55.3	2.7	42.1	4.8	26.6	2.2	48.7	.1	48.7
Des Moines WB Airport	18.5	-2.5	20.2	-3.6	35.5	-1.0	50.6	1.4	64.7	3.7	73.9	3.7	77.2	1.6	73.7	.8	60.0	-4.9	56.7	3.0	42.6	4.8	28.4	2.8	50.2	.6	50.2
Des Moines WB City	19.3	-2.9	21.0	-3.9	36.2	-1.3	50.8	.8	65.3	3.5	74.8	3.7	77.9	1.2	74.5	.5	60.8	-5.0	57.1	2.8	43.5	4.0	29.0	2.5	50.9	.5	50.9
Dubuque Lock & Dam 11	20.8	.5	20.7	-1.9	33.8	-1.3	47.1	-1.6	61.0	.7	71.3	1.9	75.4	.6	72.4	.3	58.0	-6.1	54.9	2.4	39.0	.9	27.0	2.0	48.4	-.3	48.4
Dubuque WB City	22.0	1.7	22.2	-.4	35.2	.1																					

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

IOWA
1949

Table 1—Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure
Perry 2 SE	18.1	-2.7	19.5	-3.8	35.1	-1.7	49.0	.0	63.4	2.3	72.5	2.3	75.6	.1	72.3	-.3	59.7	-5.0	56.0	3.2	41.8	3.9	28.1	3.1	49.3	.2
Pocahontas	-	-	-	-	-	-	50.2M	2.2	63.4	4.2	72.2	3.6	75.8	1.9	-	-	60.2	-3.4	54.8	3.5	41.3	5.7	25.3	2.7	-	-
Pringhar	13.2	-2.6	16.9	-2.9	32.3	.3	48.4	1.4	64.3	5.5	71.2	2.7	75.8	1.4	73.1	.6	58.7	-5.0	53.7	2.9	43.1M	8.6	24.9	2.9	48.0	1.4
Red Oak	18.4	-4.5	21.2	-5.0	36.7	-2.4	50.2	-1.0	64.7	3.1	72.5	.9	76.2	-.1	72.7	-1.8	59.1	-6.9	56.5	2.0	42.7	3.5	28.4	2.8	49.9	-.8
Rock Rapids	13.1	-1.7	15.6	-2.8	31.7	-.8	47.6	.8	62.5	4.1	71.1	2.7	75.0	1.3	72.5	.9	57.8	-4.7	51.7	2.4	40.5	7.9	22.1	1.5	46.8	1.0
Rockwell City	15.9	-2.3	17.2	-4.4	33.1	-1.8	48.7	.3	63.6	3.8	72.5	3.0	76.1	1.5	72.4	.3	59.4	-4.6	55.0	2.7	41.2	4.3	25.8	2.3	48.4	.4
Sac City	16.5	-2.1	17.8	-3.7	33.8	-.7	50.4	1.8	63.1M	3.4	73.4	4.4	78.1M	3.7	74.9M	2.8	61.0	-2.8	56.3	4.6	42.6	6.2	26.4	3.0	49.5	1.7
Sanborn	11.8	-3.0	14.3	-4.6	29.8	-1.7	46.9	.7	60.8	2.4	69.3	1.3	74.0	.2	70.8	-.1	56.9	-5.6	52.0	2.0	40.3	6.2	23.3	2.9	45.8	.0
Saratoga 2 E	-	-	-	-	-	-	51.5	.8	65.2	3.4	73.9	3.1	77.7	1.5	74.4M	.6	60.3	-5.5	58.2	4.0	43.9	4.3	30.1	3.4	51.5	1.1
Sheldon	12.7	-2.3	15.0	-3.9	31.4	-.5	48.1	1.6	62.2	3.7	70.4	2.5	75.1	1.4	72.1	.5	57.5	-5.3	51.9	1.5	40.2	6.0	23.0	2.1	46.6	.6
Shenandoah	19.2	-4.6	23.8	-2.9	38.1	-1.9	52.2	.2	66.0	3.0	74.4	1.9	78.0	-.3	74.4	-2.1	61.6	-5.4	58.1M	2.6	45.7	5.7	30.3	3.3	51.8	-.1
Sibley	12.5	-1.3	14.8	-2.2	31.1	.3	47.3	1.3	61.9	4.5	69.8	2.5	73.9	1.4	71.2	1.6	57.4	-4.2	51.8	2.8	39.4	6.9	21.7	1.7	46.0	1.2
Sidney	-	-	-	-	-	-	55.0M	68.2	74.9M	-	-	-	77.2M	74.9	-	-	62.7	-	58.7	-	47.9	-	30.6	-	-	-
Sigourney	21.8	-.6	23.2	-2.0	37.3	.1	51.5	.8	65.2	3.4	73.9	3.1	77.7	1.5	74.4M	.6	60.3	-5.5	58.2	4.0	43.9	4.3	30.1	3.4	51.5	1.1
Sioux City WB Airport	13.2	-5.1	15.8	-5.6	33.2	-.9	50.3	1.2	64.1	4.2	72.9	3.4	76.2	1.0	73.7	1.2	59.8	-3.8	53.8	2.6	42.3	6.3	25.7	3.7	48.4	.7
Sioux Rapids	13.3	-3.1	14.6	-5.2	31.1	-1.9	46.4	1.4	62.2	2.7	70.7	1.9	76.3	2.4	72.9	1.0	58.4	-5.4	53.7	2.8	38.4M	3.5	23.6	1.1	46.9	.0
Spencer 1 N	12.1	-2.7	14.0	-4.1	30.4	-1.5	46.7	.5	61.2	2.7	69.8	2.1	73.8	.0	70.5M	-1.0	56.7	-7.0	51.4	.5	38.3	4.2	22.0M	.6	45.6	-.4
State Center	18.3	-1.7	19.6M	-3.4	33.8	-2.1	50.2	1.2	65.1	4.6	73.7	3.9	76.5	1.5	73.2M	.5	59.2	-5.1	55.7	2.7	41.5	3.5	28.3	3.8	49.6	.8
Storm Lake 2 E	14.1	-3.5	15.1	-5.1	31.4	-2.0	47.9	.5	62.6	3.4	71.1	2.6	74.9	.7	72.4	.5	59.4	-4.1	54.7	3.1	42.2	6.2	25.3	2.6	47.6	.4
Tingley	18.8	-3.9	22.0	-3.8	37.5	-.3	50.5	.0	64.5	3.1	72.0	1.3	75.0	-1.9	71.0	-3.2	58.6	-7.2	55.1	.7	41.3	1.7	27.5	.1	49.5	-1.1
Tipton	22.7	1.9	24.0	.5	36.5	.1	49.5	.6	63.1	2.2	72.9	2.9	76.8	1.3	73.2	.5	58.9	-5.7	55.9	2.8	42.1	3.9	29.6	4.1	50.4	1.2
Toledo	19.5	-1.1	20.8	-2.2	34.8	-1.3	49.5	.4	63.1	2.7	72.2	3.0	75.6	1.0	74.0	1.8	59.7	-4.8	56.8	3.7	42.7	4.4	28.3	3.6	49.7	.9
Tripoli	18.4	-	18.5	-	33.8	-	48.7	-	62.9	-	72.4	-	76.6	-	73.7	-	59.0	-	55.4	-	40.1	-	25.4	-	48.8	-
Vinton	-	-	20.0	-2.9	35.1	-.9	48.9	-.6	63.2	2.3	73.5	3.9	76.8	1.8	72.5	.2	58.9	-4.8	56.0M	3.4	41.2M	4.0	28.1M	4.2	-	-
Washington	22.7	.0	23.4	-2.1	37.4	-.8	50.8	.2	64.9	3.1	74.4	3.8	77.9	2.2	74.3	1.0	60.3	-5.4	57.5	3.4	43.6	4.1	31.0	4.5	51.5	1.1
Waterloo	18.3	-.9	18.9	-2.4	32.4	-2.3	48.5	.1	62.5	2.4	71.8	2.5	75.3	.7	72.8	.8	58.1	-5.7	54.5	2.4	39.5	2.6	25.8	2.5	48.2	.2
Wauke	19.6	-1.2	22.1	-2.2	37.2	.5	50.9	1.3	66.1	4.9	75.0	4.4	78.4	2.8	75.5	2.2	62.0	-3.4	57.7	4.5	44.2	5.7	29.6	3.7	51.5	1.9
Waukon	15.4	-.3	14.8M	-2.9	29.6	-1.7	45.2	-1.4	58.5	.0	67.7	.7	72.6	.7	71.0	-.5	57.3	-4.0	54.3	4.3	37.6	3.4	23.1	1.6	45.6	.0
Webster City	17.0	-.2	17.8	-3.1	33.3	-1.2	48.7	1.1	63.0	3.3	72.9	4.1	76.6	2.1	73.6	1.9	59.5	-4.4	55.6	4.1	40.4	4.2	25.8	2.9	48.7	1.3
Williamsburg	20.6	-.1	21.1	-2.7	35.0	-2.0	49.6M	-.1	63.5	2.4	71.8	1.6	75.4	-.4	72.1	-.5	58.8	-6.2	56.1	2.8	42.1	3.6	28.5	3.3	49.5	.1
Winterset	19.9	-2.7	23.0	-2.5	37.4	-.5	51.8	1.2	65.6	3.7	73.9	2.8	77.0	.4	73.4	-.9	61.6	-4.5	58.3	3.7	45.1	5.4	29.6	2.8	51.4	.8
Woodward 7 N	13.6	-1.9	19.9	-3.1	35.1	-1.5	50.2	1.3	64.2	3.7	73.0M	2.9	76.3	.8	73.3	.3	59.6	-4.9	56.9	4.1	43.4M	5.5	28.6	3.6	49.9	.9

See reference notes following Station Index.

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

IOWA
1949

Table 2

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual			
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure		
Afton	4.47	3.52	0.89	-.21	1.56	-.22	1.07	-2.06	-	-	9.93	5.07	3.92	.62	2.00	-2.15	2.48	-1.91	2.67	-.06	-	-	-	-	-	-	-	-
Akron	1.61	1.01	0.10	-.67	3.76	2.50	0.63	-1.77	4.00	.40	3.02	-.18	4.08	.93	5.83	2.93	6.05	2.75	1.71	.21	0.07	-1.03	0.53	-.17	32.19	6.81		
Albia	3.34	2.23	1.47	.21	3.47	1.54	1.31	-1.49	2.66	-1.42	9.69	5.04	4.34	.77	2.37	-1.35	2.53	-1.64	1.55	-.74	1.07	-.76	1.72	-.42	35.52	2.61		
Algona	2.45	1.63	0.28	-.69	2.65	1.26	0.94	-1.49	2.47	-1.65	3.95	-.33	5.58	2.47	1.13	-2.94	3.16	-1.12	1.18	-.89	0.21	-1.41	0.58	-.36	24.58	-5.52		
Allerton	3.46	-	1.57	-	3.31	-	0.97	-	2.05	-	7.49	-	5.89	-	3.08	-	4.08	-	2.24	-	0.31	-	2.38	-	36.63	-		
Allison	2.18	1.08	0.90	-.22	1.98	.18	1.17	-1.16	3.63	-.72	7.05	2.60	3.83	.11	0.71	-2.99	3.31	-.79	1.78	-.47	0.68	-1.14	0.92	-.23	28.14	-3.73		
Alta	2.24	1.43	0.11	-.91	1.88	.42	1.41	-1.24	4.48	.09	3.05	-.88	2.05	-1.70	1.55	-1.90	4.35	.45	1.53	-.39	0.00	-1.57	0.34	-.60	23.79	-6.80		
Alton	0.85	.17	0.65	-.15	2.87	1.58	1.30	-.94	4.30	.63	2.86	-1.24	1.91	-1.15	2.07	-1.18	5.94	2.39	2.06	.51	0.05	-1.17	0.50	-.20	25.44	-.75		
Ames 3 SW	2.16	1.29	0.93	-.05	2.21	.78	1.14	-1.47	1.36	-2.82	3.91	-.43	1.93	-1.49	1.90	-1.72	4.36	.08	2.69	.31	0.54	-.97	0.71	-.34	23.92	-6.83		
Anamosa 1 NW	3.13	1.93	1.03	.53	2.60	.80	1.52	-1.00	2.08	-1.86	6.68	2.08	2.95	-.85	0.96	-2.84	1.78	-2.42	2.76	.09	0.58	-1.22	1.43	.08	28.10	-4.76		
Atlantic 1 E	2.78	1.83	1.25	.18	2.30	.83	1.64	-.91	5.43	1.88	6.12	1.32	6.52	3.14	2.42	-1.67	2.54	-1.42	3.00	.58	0.10	-1.59	0.72	-.29	34.82	3.88		
Atlantic AP CAA	2.90	1.95	0.72	-.35	1.76	.29	1.36	-1.19	4.43	.88	7.63	2.83	5.64	2.26	1.79	-2.30	2.43	-1.53	2.62	.20	0.03	-1.66	0.51	-.50	31.82	.88		
Audubon 2 S	3.30	2.35	1.39	.29	2.40	.97	2.15	-.23	2.72	-.79	3.16	-1.36	2.46	-1.07	2.60	-1.37	3.81	-.32	1.61	-.54	0.03	-1.56	0.54	-.38	26.17	-4.01		
Augusta	3.06	-	-	-	3.28	-	1.30	-	1.21	-	5.44	-	2.26	-	3.00	-	1.90	-	2.47	-	0.63	-	2.47	-	-	-	-	
Bancroft	1.60	.75	-	-	2.25	.85	-	-	-	-	3.88	-.57	6.41	3.01	0.54	-3.16	3.64	-.11	1.32	-.68	0.25	-1.35	0.78	-.07	-	-	-	
Bartlett 3 E	3.59	-	0.94	-	1.44	-	1.13	-	3.86	-	8.95	-	3.14	-	2.86	-	2.96	-	1.64	-	T	-	0.65	-	31.18	-		
Beaver	-	-	-	-	1.82	-	1.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bedford 1 N	3.17	2.17	0.60	-.60	2.33	.72	1.55	-1.19	2.41	-1.73	8.94	3.84	4.16	.42	2.41	-1.69	3.03	-1.09	-	-	0.65	-1.22	-	-	-	-	-	
Belle Plaine	3.05	1.70	1.31	-.06	2.51	.30	1.21	-1.68	2.11	-2.09	5.27	.62	4.59	.39	0.43	-3.23	3.47	-.92	3.47	1.00	1.27	-.86	1.57	.14	30.28	-4.89		
Bellevue L & D 12	3.10	1.80	1.67	.37	1.65	-.42	1.37	-1.28	2.46	-1.34	5.80	1.40	6.60	3.10	3.04	-.66	0.93	-3.27	2.18	-.42	0.98	-1.02	2.13	.83	31.94	-9.14		
Blockton 2 S	3.34	2.35	1.16	-.03	2.04	.32	1.05	-1.85	2.46	-1.62	6.22	1.15	3.26	-.45	3.02	-1.09	3.06	-1.28	1.61	-1.04	0.65	-1.25	0.98	-.12	28.85	-4.51		
Bloomfield 2 N	3.55	2.25	2.23	.83	3.35	1.06	1.55	-1.55	2.84	-1.46	-	-	4.92	1.05	-	-	-	-	1.21	-1.30	-	-	1.12	-.31	-	-	-	
Boone	3.20	2.23	1.05	-.04	2.57	1.07	1.33	-1.30	1.96	-2.19	4.93	.32	1.50	-2.26	2.09	-1.85	6.39	1.90	3.06	.64	-	-	1.17	.23	-	-	-	
Britt	3.17	2.44	0.90	.15	4.16	2.88	1.25	-.93	1.95	-2.35	5.82	1.51	3.54	.16	0.78	-3.26	3.39	-.73	2.62	.51	0.30	-1.26	1.92	1.14	29.80	-.24		
Burlington WB AP	2.46	.71	1.78	.14	2.93	.39	1.23	-1.95	0.96	-3.18	5.84	1.13	3.43	-.03	1.58	-1.06	1.39	-2.87	1.89	-.88	0.47	-1.68	2.18	.56	26.14	-9.52		
Carroll	2.07	1.29	0.36	-.64	1.88	.49	0.95	-1.37	2.30	-1.52	4.31	-.41	2.48	-.96	3.21	-.97	6.97	2.94	1.08	-1.09	0.07	-1.44	0.12	-.84	25.80	-4.52		
Cascade	2.79	-	1.57	-	2.30	-	1.71	-	1.41	-	6.65	-	3.70	-	0.43	-	1.14	-	1.95	-	0.62	-	2.12	-	26.39	-		
Castana 4 E	2.43	-	0.42	-	2.08	-	0.98	-	2.50	-	3.29	-	3.87	-	2.29	-	2.00	-	1.78	-	0.05	-	0.24	-	21.93	-		
Cedar Falls	3.18	2.03	1.18	.08	2.63	.23	1.63	-.77	1.00	-2.12	5.24	.82	2.95	-.95	1.31	-2.39	2.91	-1.39	1.76	-.59	0.58	-1.32	1.15	.00	25.72	-6.37		
Cedar Rapids No. 1	3.17	2.08	1.52	.46	2.49	.78	1.70	-.82	2.40	-1.32	6.53	2.42	2.90	-.78	1.94	-1.75	3.04	-1.08	1.95	-.32	1.14	-.61	0.75	-.37	29.53	-1.31		
Cedar Rapids No. 2	3.28	-	1.55	-	2.61	-	1.78	-	2.47	-	6.59	-	2.81	-	2.45	-	3.61	-	1.95	-	1.10	-	0.73	-	30.93	-		
Centerville	3.48	2.37	1.60	.30	3.84	1.98	1.60	-1.60	3.24	-1.06	8.60	3.77	5.04	1.44	2.95	-.78	2.92	-1.23	2.13	-.53	0.73	-1.26	2.14	.78	38.27	4.18		
Chariton 3 E	2.64	1.59	1.24	.20	2.45	.77	1.04	-1.70	2.64	-1.10	7.41	2.75	4.00	.38	1.99	-1.73	1.94	-2.27	-	-	0.66	-1.07	1.69	.62	-	-	-	
Charles City	2.91	1.82	0.44	-.67	2.45	.58	1.54	-.89	2.11	-2.32	5.11	-.85	1.80	-1.85	0.88	-3.28	1.63	-2.37	1.58	-.65	0.75	-1.12	1.36	.16	22.56	-9.74		
Cherokee	1.58	.96	0.08	-.82	2.96	1.66	1.27	-1.05	4.16	.36	4.19	-.01	2.13	-1.31	1.00	-2.30	5.39	1.59	2.22	.48	T	-1.33	0.36	-.34	25.34	-2.11		
Clarence	-	-	-	-	1.88	-	1.29	-	1.29	-	5.92	-	9.06	-	2.21	-	4.03	-	2.63	-	0.73	-	1.72	-	-	-	-	
Clarinda	2.60	1.69	0.48	-.59	2.01	.40	0.88	-2.72	2.90	-1.16	9.62	4.58	1.81	-2.37	1.18	-2.82	2.78	-1.18	2.27	-.45	0.59	-1.13	1.15	.12	27.97	-5.63		
Clarion	1.91	.91	0.14	-.81	3.02	1.52	1.25	-1.35	3.67	-.38	5.81	1.16	1.29	-2.31	1.81	-1.89	2.93	-1.22	1.53	-.67	0.35	-1.45	0.38	-.57	24.09	-7.06		
Clinton No. 1	3.22	1.70	1.20	-.22	2.60	.24	1.34	-1.61	1.14	-2.89	3.65	-.70	7.94	4.40	5.54	1.55	2.47	-1.77	2.91	.28	0.65	-1.51	2.57	1.02	35.23	.49		
Clinton No. 2	2.95	-	1.16	-	2.41	-	1.24	-	1.02	-	3.76	-	7.39	-	5.55	-	2.39	-	2.89	-	0.59	-	2.18	-	33.53	-		
Columbus Junction	4.22	2.87	1.80	.42	2.71	.41	1.17	-1.68	3.19	-.77	3.88	-.96	5.88	2.16	1.21	-2.80	2.55	-1.45	1.05	-1.55	0.76	-1.29	3.24	-1.81	31.66	-6.66		
Coon Rapids	2.16	-	0.99	-	2.56	-	1.16	-	1.92	-	3.01	-	3.65	-	2.71	-	2.36	-	2.74	-	0.11	-	0.50	-	23.87	-		
Corning 1 W	1.74	.81	-	-	1.31	-.33	-	-	-	-	5.82	1.28	1.10	-2.46	1.56	-2.38	2.18	-2.17	2.09	-.61	0.70	-.91	-	-	-	-		
Council Bluffs 6 NE	3.66	-	0.97	-	1.90	-	1.45	-	3.66	-	7.23	-	2.56	-	3.43	-	2.76	-	2.99	-	0.07	-	0.26	-	-	30.94	-	
Council Bluffs 5 NE	3.93	-	1.16	-	2.00	-	1.51	-	4.56	-	7.07	-	3.00	-	3.56	-	2.92	-	2.96	-	0.07	-	0.11	-	-	32.85	-	
Cresco	2.74	1.62	0.50	-.55	3.76	1.91	2.10	-.33	2.31	-2.09	5.61	.91	1.53	-2.28	1.87	-1.49	1.60	-2.04	-	-	1.17	-.68	1.59	-.35	-	-		
Creston	-	-	0.87	-.18	-	-	1.36	-1.44	2.76	-1.14	7.75	2.64	2.88	-.31	2.01	-1.98	2.14	-2.39										

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

IOWA
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Table 2-Continued

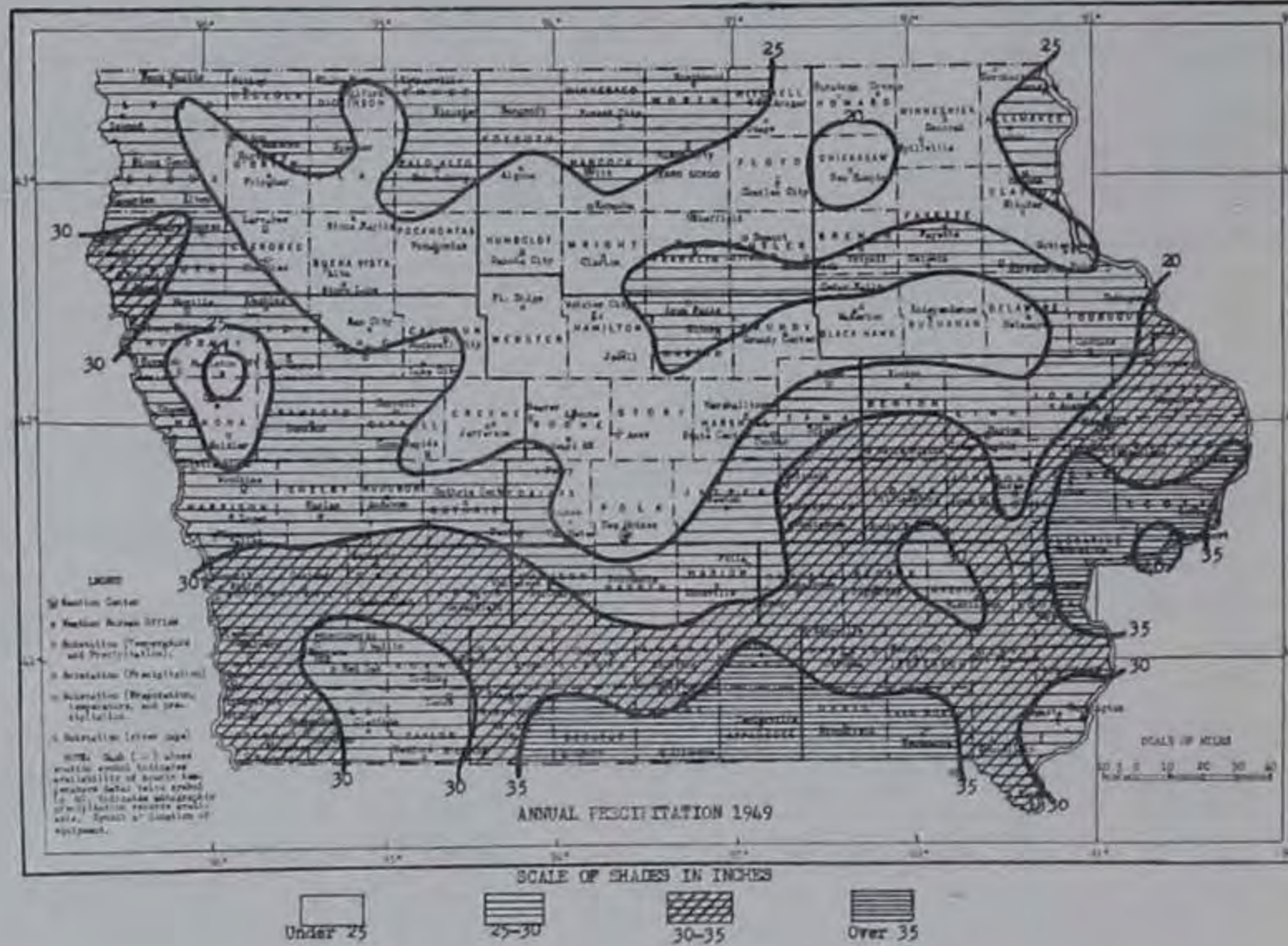
Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure
Leokuk Lock & Dam 19	3.78	2.26	1.15	-.17	1.92	-.35	1.27	-1.64	1.51	-2.32	6.28	2.13	2.86	-.29	3.23	.10	2.65	-1.23	2.10	-.32	0.84	-1.23	2.65	1.19	30.44	-1.87
Leokuk WB City	3.27	1.75	1.73	.41	1.88	-.39	1.64	-1.27	-	-	-	-	3.07	-.08	3.85	.72	2.77	-1.31	2.12	-.30	0.67	-1.40	2.57	1.11	-	-
Leosauqua State Park	3.82	2.45	1.39	.07	2.65	.40	1.72	-1.30	2.38	-1.65	7.04	1.86	3.58	-.40	4.31	.89	2.81	-1.30	2.17	-.53	0.45	-1.60	-	-	37.00	-
Leosauqua	3.48	-	1.24	-	2.83	-	1.90	-	3.24	-	8.45	-	3.95	-	5.45	-	2.71	-	1.46	-	0.72	-	1.57	-	-	-
Snookville 2 W	3.22	2.00	1.03	-.20	-	-	1.47	-1.18	1.64	-2.10	8.61	4.08	3.13	-.35	1.78	-2.40	1.41	-2.92	2.68	.28	0.49	-1.38	1.45	.15	-	-
Lake City	1.31	.31	0.23	-.87	3.03	1.57	0.97	-1.33	3.58	-.22	3.62	-1.08	1.58	-2.22	4.71	.71	5.22	1.22	1.62	-.48	0.00	-1.55	0.41	-.54	26.28	-4.48
Lake Park	0.92	.29	0.12	-.69	2.47	1.17	0.65	-1.52	4.27	.47	2.55	-1.60	4.56	1.52	-	-	-	-	-	-	T	-1.25	0.77	.02	-	-
Lake View	2.26	1.36	0.51	-.54	1.65	.35	0.98	-1.27	-	-	2.33	-1.97	1.46	-2.09	5.57	1.77	3.02	-.78	0.90	-1.15	0.04	-1.41	0.22	-.68	-	-
Lansoni	3.80	2.77	1.40	.20	3.26	1.46	1.26	-1.73	2.18	-1.75	6.15	.98	2.79	-.80	4.38	.43	7.82	3.51	3.42	.62	1.13	-.67	1.95	.87	39.54	5.89
Lansoni AP CAA 4 WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lansing	2.75	1.63	0.55	-.60	2.67	.82	1.50	-1.07	1.60	-2.60	5.56	1.12	4.98	1.01	0.18	-3.75	1.69	-2.71	0.92	-1.65	0.55	-1.58	2.08	1.01	25.03	-8.57
Larrabee	1.36	-	0.10	-	1.75	-	1.02	-	5.70	-	3.53	-	1.44	-	0.58	-	4.74	-	1.98	-	0.02	-	0.40	-	22.62	-
Le Claire	3.44	2.01	1.23	-.17	2.86	.47	1.22	-1.75	1.31	-2.60	6.64	2.46	4.38	1.04	4.05	.52	2.50	-1.55	1.76	-.74	0.54	-1.60	3.34	1.90	33.27	-.01
Le Claire Lock & Dam 14	3.44	2.01	1.58	.18	2.71	.32	1.40	-1.57	1.44	-2.47	5.73	1.55	5.27	1.93	5.22	1.69	2.63	-1.42	2.09	-.41	0.80	-1.34	2.70	1.26	35.01	1.73
Le Mars	1.06	.44	0.19	-.63	3.73	2.47	1.02	-1.44	5.34	1.40	3.92	-.20	4.97	1.33	2.04	-.84	8.43	4.89	1.84	.19	T	-1.19	0.48	-.26	33.02	6.16
Leokuk	3.68	-	0.77	-	2.09	-	1.09	-	2.21	-	8.40	-	1.88	-	0.88	-	2.56	-	2.79	-	0.74	-	0.93	-	28.02	-
Logan	3.16	2.41	0.80	-.10	1.44	.16	1.53	-.81	3.07	-.40	4.38	-.15	4.31	.84	2.96	-.52	5.52	2.27	1.82	-.22	T	-1.52	0.14	-.73	29.13	1.23
Salvern 5 W	4.10	-	0.70	-	0.58	-	1.71	-	4.27	-	9.06	-	2.72	-	3.28	-	4.11	-	0.97	-	0.42	-	-	-	-	-
Mapleton 5 NW	1.97	1.22	0.10	-.77	1.67	.47	0.88	-1.42	2.46	-1.19	2.60	-1.80	1.90	-1.70	2.44	-.96	2.59	-1.06	1.65	-.20	0.00	-1.40	0.05	-.80	18.31	-9.61
Mapleton 2 SW	2.29	-	0.15	-	1.67	-	1.02	-	2.49	-	-	-	3.11	-	1.88	-	2.65	-	1.76	-	T	-	0.20	-	-	-
Maquoketa 5 E	-	-	-	-	-	-	1.47	-1.26	1.71	-2.04	8.16	3.59	3.00	-.72	2.65	-1.25	1.25	-2.85	1.75	-.95	1.22	-.78	2.48	1.14	-	-
Marion 4 NE	2.52	-	1.12	-	2.22	-	-	-	-	-	7.52	-	5.20	-	0.71	-	2.10	-	1.51	-	0.79	-	0.69	-	-	-
Marshalltown No. 1	2.92	1.77	1.07	-.06	2.33	.41	0.87	-1.85	2.27	-1.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marshalltown	3.82	2.67	1.32	.19	2.37	.45	1.10	-1.62	2.13	-1.91	4.86	.40	0.77	-2.95	0.66	-2.82	2.43	-2.25	2.14	-.35	0.78	-1.06	0.86	-.30	23.24	-9.55
Marion City 3 N	2.56	1.65	0.22	-.72	2.64	1.16	0.89	-1.32	1.40	-2.76	5.76	1.10	5.09	1.62	2.56	-1.60	2.83	-1.01	1.88	-.22	0.50	-1.12	0.76	-.19	27.09	-3.41
Marion City AP CAA	2.38	1.47	0.16	-.78	3.01	1.53	1.18	-1.03	1.67	-2.49	7.61	2.95	5.02	1.55	1.06	-3.10	3.76	-.08	2.44	.34	0.51	-1.11	0.97	.02	29.77	-.73
Merrill 5 W	1.68	-	0.03	-	2.74	-	1.01	-	4.15	-	4.47	-	4.01	-	3.63	-	8.63	-	1.97	-	0.06	-	0.59	-	32.97	-
Milford 4 NW	1.25	.60	0.07	-.78	2.36	1.06	0.72	-1.63	3.83	.03	5.99	1.84	2.24	-.96	1.77	-1.88	3.30	-.30	2.00	.30	0.08	-1.22	0.74	-.06	24.35	-3.00
Milerton	4.38	3.34	1.96	.74	3.00	1.10	1.08	-2.01	2.12	-2.00	6.36	1.62	6.88	3.29	2.42	-1.10	1.99	-2.43	2.23	-.33	0.61	-1.26	0.97	-.23	34.00	.73
Missouri Valley	3.61	2.91	1.06	.16	1.33	.08	1.51	-.67	2.86	-.44	5.47	1.07	3.70	.50	1.85	-1.55	3.67	.47	1.88	-.02	0.08	-1.32	0.20	-.68	27.22	.51
Mosmouth 4 SW	1.62	.30	-	-	2.03	.08	1.35	-1.35	0.92	-2.88	4.82	.27	3.66	-.09	1.78	-2.09	1.31	-2.84	0.96	-1.69	0.60	-1.30	-	-	-	-
Mosona	2.18	-	0.60	-	2.14	-	1.18	-	1.95	-	7.30	-	2.80	-	0.85	-	1.74	-	0.87	-	0.42	-	1.24	-	23.27	-
Montezuma	-	-	-	-	-	-	1.14	-	0.47	-	7.14	-	2.79	-	1.06	-	1.35	-	3.72	-	1.14	-	1.29	-	-	-
Morse	2.81	-	1.24	-	2.64	-	1.35	-	2.14	-	7.08	-	2.94	-	3.86	-	1.60	-	1.60	-	0.81	-	1.64	-	-	-
Morse 1 NE	2.30	-	0.98	-	2.30	-	0.96	-	1.77	-	6.64	-	1.62	-	2.83	-	3.90	-	1.46	-	0.80	-	1.52	-	27.08	-
Morse 4 SW	2.97	-	-	-	3.00	-	-	-	-	-	5.92	-	1.33	-	2.99	-	3.48	-	1.47	-	0.72	-	1.72	-	-	-
Mount Air 2 N	3.76	2.75	1.11	-.10	1.39	-.42	1.04	-1.92	2.38	-1.82	7.53	2.48	4.39	.49	4.48	.36	6.56	2.07	-	-	-	-	1.26	.10	-	-
Mount Pleasant	3.10	1.76	1.56	.31	1.92	-.29	1.17	-2.01	1.58	-2.41	7.27	2.32	1.73	-2.08	6.15	2.39	2.68	-1.61	1.20	-1.23	0.70	-1.38	3.79	2.33	32.83	-1.90
Mosville	2.22	-	0.13	-	1.40	-	1.13	-	4.65	-	3.97	-	4.76	-	1.58	-	6.69	-	2.41	-	0.03	-	0.33	-	29.30	-
Muscataine No. 1	3.62	2.27	1.81	.46	2.98	.68	1.60	-1.35	2.11	-1.58	4.91	.51	6.24	2.64	4.94	.89	2.17	-1.73	1.19	-1.41	0.80	-1.30	3.25	1.85	35.62	1.93
Muscataine No. 2	3.23	-	1.76	-	3.18	-	1.67	-	2.20	-	5.45	-	6.09	-	5.21	-	2.18	-	1.23	-	0.80	-	2.64	-	35.64	-
Muscataine 6 N	3.02	-	-	-	-	-	-	-	1.82	-	4.47	-	5.41	-	5.85	-	2.41	-	1.15	-	0.85	-	2.96	-	-	-
Muscataine 6 NW	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nashua 2 NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampton	2.33	1.32	1.02	.00	2.18	.29	1.14	-1.25	1.45	-3.10	3.75	-.53	1.57	-2.11	0.85	-3.27	1.79	-2.41	0.75	-1.63	0.41	-1.49	1.01	-.14	18.25	-14.32
Newton	3.71	2.51	1.06	-.04	2.56	.94	1.09	-1.82	1.47	-2.68	6.80	2.36	3.12	-.48	1.06	-2.70	3.11	-1.44	2.04	-.36	0.38	-1.47	0.72	-.43	27.12	-5.61
North English	-	-	0.00	-	0.89	-	0.89	-	-	-	5.90	-	1.55	-	2.48	-	1.63	-	2.28	-	0.50	-	1.11	-	-	-
Northwood	3.79	2.71	0.39	-.77	2.50	.64	1.16	-1.40	1.84	-2.69	6.67	1.84	3.51	.06	0.20	-3.96	3.29	-.96	1.69	-.69	0.60	-1.36	0.92	-.31	26.56	-6.89
Orwich 2 E SCS	2.95	2.10	0.61	-.49	2.07	.47	1.39	-1.21	4.36	.26	9.12	4.10	2.79	-.91	1.22	-2.83	3.70	-.30								

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

IOWA
1949

Table 2-Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure
Washington	3.43	2.11	1.84	-.42	3.02	-.70	1.65	-1.41	1.73	-1.98	5.88	1.32	4.18	-.50	1.66	-2.23	2.02	-2.06	1.49	-1.02	0.49	-1.45	0.66	-.74	28.05	-5.84
Waterloo	2.78	1.73	0.72	-.37	1.85	-.01	1.11	-1.23	2.04	-1.80	4.92	-.62	1.40	-2.59	0.45	-3.25	4.09	-.26	1.13	-1.23	0.47	-1.34	0.59	-.55	21.55	-10.28
Wauke	2.54	1.42	1.22	-.15	2.80	1.15	1.25	-1.68	2.66	-1.21	3.65	-.80	2.27	1.65	0.16	-3.77	1.80	-2.42	2.30	-.05	0.61	-.97	1.03	-.03	22.29	-6.46
Waukon	2.35	1.20	0.36	-.96	3.54	1.69	0.86	-1.60	1.70	-2.70	6.06	1.66	5.50	1.31	0.95	-3.00	1.21	-2.79	1.14	-1.46	0.27	-1.82	1.53	.23	25.47	-8.24
Webster City	2.69	1.75	0.42	-.53	2.87	1.28	1.11	-1.45	2.52	-1.53	3.99	-.51	1.49	-1.99	1.56	-2.14	3.60	-.50	1.52	-.67	0.59	-1.11	1.16	.26	23.52	-7.14
Webster City 2 S	-	-	-	-	-	-	-	-	-	-	3.11	0.48	-	1.87	-	3.84	-	-	-	-	-	-	-	-	-	-
Wheatland	3.09	1.47	-	-	2.62	-	1.38	-	1.12	-	5.70	-	6.39	-	3.48	-	3.10	-	1.49	-	0.99	-	1.84	-	32.67	-
Williamsburg	2.24	1.04	1.22	-.02	2.70	.55	1.23	-1.57	3.91	.01	6.44	1.66	4.63	.93	1.79	-1.86	3.78	-.44	3.54	1.09	0.47	-1.53	0.82	-.53	32.77	-.63
Winterset	5.20	4.27	0.78	-.32	2.84	1.13	1.46	-1.30	2.54	-1.38	5.50	1.19	5.71	2.27	2.31	-1.33	1.88	-2.19	1.99	-.50	0.79	-.90	0.73	-.30	31.73	.64
Woodbine 5 SE	-	-	1.00	-	-	-	2.06	-	2.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Woodward 7 N	1.97	.99	0.91	-.14	1.55	.00	0.94	-1.61	1.57	-2.48	1.91	-2.59	1.92	-1.08	2.22	-1.78	2.94	-1.16	2.25	-.05	-	-	-	0.83	-.17	-



See reference notes following Station Index.

TEMPERATURE EXTREMES AND FREEZE DATA

IOWA
1949

Table 3

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
Afton	95	7-1	-15	1-22+	4-19 (23°)	4-19 (23°)	4-24 (31°)	9-29 (27°)	9-29 (27°)	10-26 (19°)	190	163	158
Albia	95	7-1	-12	1-30	3-19 (19°)	4-16 (25°)	4-19 (29°)	9-29 (28°)	9-29 (28°)	10-31 (20°)	226	166	163
Algona	95	7-3+	-14	2-2	4-16 (22°)	4-24 (28°)	4-24 (28°)	9-29 (30°)	10-24 (25°)	10-26 (24°)	193	183	158
Allison	97	7-1	-16	1-22+	4-16 (22°)	4-24 (28°)	4-24 (28°)	9-29 (28°)	9-29 (28°)	10-26 (22°)	193	158	158
Alta	95	6-30+	-16	2-2	3-19 (22°)	4-19 (26°)	4-24 (30°)	10-22 (29°)	10-24 (28°)	10-31 (15°)	226	188	181
Alton	95	7-3+	-20	1-22	4-16 (23°)	4-19 (25°)	4-19 (25°)	9-29 (26°)	9-29 (26°)	10-26 (22°)	193	163	163
Ames 3 SW	95	7-1	-16	1-30	4-16 (24°)	4-19 (25°)	4-24 (29°)	9-29 (29°)	10-24 (26°)	10-26 (24°)	193	188	158
Anamosa 1 NW	95	7-1	-22	1-20	4-16 (16°)	4-19 (25°)	4-24 (30°)	9-24 (30°)	9-29 (24°)	9-29 (24°)	166	163	153
Atlantic 1 E	97	7-1	-15	1-29	4-19 (22°)	4-19 (22°)	4-24 (31°)	9-28 (32°)	9-29 (26°)	10-26 (21°)	190	163	157
Atlantic AP CAA	99	7-1	-14	1-21+	4-19 (24°)	4-19 (24°)	4-24 (32°)	9-1 (32°)	9-29 (24°)	9-29 (24°)	163	163	130
Audubon 2 S	95	7-18	-15	2-2	4-15 (24°)	4-19 (25°)	4-24 (30°)	9-28 (32°)	-	-	-	-	-
Bancroft	99	6-30+	-15	1-22+	-	-	-	9-29 (27°)	9-29 (27°)	10-24 (23°)	-	-	-
Bedford 1 W	93	7-1	-10	1-30	3-19 (23°)	4-19 (28°)	4-19 (28°)	10-22 (32°)	10-23 (23°)	10-31 (16°)	226	187	186
Belle Plaine	96	7-1	-20	1-30	4-16 (21°)	4-19 (25°)	4-24 (31°)	9-29 (28°)	9-29 (28°)	10-26 (22°)	193	163	158
Belleme Lock & Dam 12	97	7-1	-18	1-20	4-16 (15°)	4-19 (28°)	4-20 (31°)	9-24 (32°)	9-29 (26°)	10-26 (23°)	193	163	157
Bloomfield 2 N	-	-	-19	1-30	3-20 (24°)	4-18 (26°)	4-19 (30°)	9-29 (29°)	10-24 (25°)	10-26 (20°)	220	189	163
Boone	96	7-1+	-12	2-2	3-19 (23°)	4-16 (28°)	4-24 (32°)	9-29 (31°)	10-26 (27°)	10-31 (19°)	226	193	158
Britt	100	7-6	-17	1-30+	4-24 (24°)	4-24 (24°)	4-24 (24°)	9-1 (32°)	9-29 (25°)	10-24 (20°)	183	158	130
Burlington WB Airport	100	7-3	-7	1-30	4-16 (22°)	4-19 (27°)	4-19 (27°)	10-24 (31°)	10-26 (23°)	10-26 (23°)	193	190	188
Carroll	97	8-6+	-17	2-2	3-19 (22°)	4-19 (26°)	4-24 (30°)	9-29 (28°)	9-29 (28°)	10-26 (24°)	221	163	158
Cascade	96	7-1	-25	1-22	4-16 (18°)	4-19 (27°)	4-24 (29°)	9-24 (29°)	9-29 (21°)	9-29 (21°)	166	163	153
Castana 4 E	94	7-2+	-14	2-2	4-16 (24°)	4-19 (27°)	4-24 (29°)	10-22 (30°)	10-24 (27°)	10-31 (16°)	198	188	181
Cedar Rapids No. 1	95	7-1+	-16	1-22	4-16 (17°)	4-19 (26°)	4-24 (31°)	9-29 (28°)	9-29 (28°)	10-26 (24°)	193	163	158
Centerville	96	7-2+	-16	1-30	3-19 (18°)	4-19 (26°)	4-19 (26°)	9-29 (29°)	10-26 (25°)	10-21 (18°)	216	190	163
Chariton 3 E	94	7-1+	-20	1-22	4-19 (22°)	4-19 (22°)	4-24 (32°)	9-29 (23°)	9-29 (23°)	9-29 (23°)	163	163	158
Charles City	95	7-4+	-20	2-2	4-16 (22°)	4-19 (27°)	4-24 (30°)	9-29 (28°)	9-29 (28°)	10-26 (24°)	193	163	158
Cherokee	96	7-25	-17	2-2+	4-16 (23°)	4-24 (27°)	4-24 (27°)	9-29 (26°)	9-29 (26°)	10-31 (14°)	198	158	158
Clarinda	96	7-1	-15	1-22	3-19 (24°)	4-16 (26°)	4-19 (29°)	9-29 (27°)	9-29 (27°)	10-26 (20°)	221	166	163
Clarion	96	8-7	-20	2-2	4-19 (24°)	4-24 (25°)	4-24 (25°)	9-1 (32°)	9-29 (23°)	9-29 (23°)	163	158	130
Clinton No. 1	97	7-1	-12	1-20	4-16 (22°)	4-19 (28°)	4-19 (28°)	9-29 (32°)	10-26 (25°)	11-3 (24°)	201	190	163
Columbus Junction	97	7-1	-16	1-20	4-16 (23°)	4-19 (28°)	4-19 (28°)	9-29 (30°)	10-26 (22°)	10-26 (22°)	193	190	163
Corning 1 W	96	7-18	-	-	-	-	-	9-29 (31°)	10-24 (28°)	10-26 (24°)	-	-	-
Council Bluffs 5 NE	96	7-1	-13	2-2	3-18 (21°)	4-16 (27°)	4-19 (29°)	9-28 (32°)	9-29 (26°)	10-26 (22°)	222	166	162
Cresco	100	8-7	-25	2-2	4-17 (16°)	4-24 (27°)	4-24 (27°)	9-14 (31°)	9-29 (25°)	-	-	-	-
Creston	96	7-1	-13	1-30	4-16 (24°)	4-19 (25°)	4-19 (25°)	9-29 (30°)	10-22 (28°)	10-26 (24°)	193	186	163
Cushing 3 NE	93	6-20	-16	2-2	4-16 (23°)	4-19 (27°)	4-24 (29°)	9-28 (31°)	10-24 (26°)	10-31 (15°)	198	188	157
Dakota City	95	6-30+	-17	2-2	4-16 (21°)	4-24 (27°)	4-24 (27°)	9-29 (27°)	9-29 (27°)	10-24 (24°)	191	158	158
Davenport WB City	97	7-1+	-6	1-29+	3-19 (21°)	4-16 (25°)	4-19 (32°)	10-26 (30°)	10-31 (25°)	11-3 (24°)	229	198	190
Decorah 2 S	97	8-7	-31	2-2	4-19 (22°)	4-24 (25°)	5-28 (30°)	9-1 (30°)	9-24 (26°)	9-29 (18°)	163	153	96
Delaware 2 W	96	8-7	-20	1-30+	4-16 (15°)	4-24 (28°)	4-24 (28°)	9-14 (32°)	9-29 (25°)	10-24 (23°)	191	158	143
Denison 1 S	96	7-6	-20	2-2	4-16 (23°)	4-19 (25°)	4-24 (29°)	9-29 (27°)	9-29 (27°)	10-26 (24°)	193	163	158
Des Moines WB Airport	97	7-1	-13	1-30	3-19 (21°)	4-19 (28°)	4-19 (28°)	9-29 (32°)	10-26 (28°)	10-31 (18°)	226	190	163
Des Moines WB City	96	7-1	-11	1-30+	3-19 (22°)	4-16 (28°)	4-19 (29°)	10-24 (32°)	10-26 (28°)	10-31 (21°)	226	193	188
Dubuque Lock & Dam 11	94	6-29+	-20	1-30+	4-2 (23°)	4-16 (25°)	4-24 (30°)	9-29 (32°)	10-26 (25°)	11-3 (22°)	215	193	158
Dubuque WB City	97	7-1+	-16	1-30	3-19 (17°)	4-16 (26°)	4-19 (32°)	10-26 (27°)	10-26 (27°)	11-21 (18°)	247	193	190
Elkader	98	8-7	-31	1-30	4-16 (13°)	4-24 (28°)	4-24 (28°)	9-24 (31°)	9-29 (21°)	9-29 (21°)	166	158	153
Emmetsburg	96	6-30	-15	2-2	4-19 (23°)	5-9 (28°)	5-9 (28°)	9-29 (28°)	9-29 (28°)	10-31 (16°)	195	143	143
Estherville	98	7-25+	-15	1-22+	4-16 (24°)	4-24 (27°)	4-24 (27°)	9-29 (28°)	9-29 (28°)	10-24 (21°)	191	158	158
Fairfield	96	7-4	-12	1-30	-	-	4-19 (29°)	9-28 (31°)	10-25 (25°)	10-30 (20°)	-	-	-
Fayette	100	8-8	-31	2-2	4-19 (31°)	4-19 (21°)	4-24 (29°)	9-1 (32°)	9-24 (28°)	9-29 (20°)	163	158	130
Forest City	95	6-30+	-	-	-	-	-	9-1 (31°)	9-29 (20°)	9-29 (20°)	-	-	-
Fort Dodge	96	6-30	-19	2-2	4-19 (23°)	4-24 (28°)	4-24 (28°)	9-29 (26°)	9-29 (26°)	10-31 (17°)	195	158	158
Glenwood 2 E	98	7-8	-15	1-30+	3-18 (18°)	4-18 (27°)	4-19 (31°)	9-28 (32°)	9-29 (27°)	10-26 (24°)	222	164	162
Greenfield	94	7-1+	-12	1-30	3-19 (16°)	4-19 (25°)	4-19 (25°)	9-29 (31°)	10-22 (28°)	10-25 (24°)	220	186	163
Grinnell	95	7-1	-17	1-29+	4-16 (21°)	4-24 (28°)	4-24 (28°)	9-29 (30°)	10-23 (23°)	10-23 (23°)	190	182	158
Grundy Center 4 NE	94	7-1+	-22	1-22	4-16 (21°)	4-24 (26°)	4-24 (26°)	9-29 (27°)	9-29 (27°)	10-26 (21°)	193	158	158
Guthrie Center	93	7-18	-12	2-2	3-19 (21°)	4-19 (28°)	4-24 (32°)	9-29 (30°)	10-24 (28°)	10-31 (17°)	226	188	158
Guttenberg Lock & Dam 10	98	8-7	-18	1-30	4-17 (20°)	4-19 (26°)	4-19 (26°)	10-22 (31°)	10-24 (28°)	10-26 (23°)	192	188	186
Hampton	94	6-30+	-20	2-2	4-16 (23°)	4-24 (28°)	4-24 (28°)	9-29 (28°)	9-29 (28°)	10-26 (24°)	193	158	158
Harlan	95	7-2+	-16	1-30+	4-19 (23°)	4-19 (23°)	4-19 (23°)	9-29 (29°)	10-24 (27°)	10-26 (23°)	190	188	163
Hawarden	99	7-3	-20	1-22	4-2 (23°)	4-19 (28°)	4-24 (29°)	9-23 (32°)	9-29 (26°)	10-24 (23°)	205	163	152
Ida Grove 4 S	99	7-6	-16	1-29+	4-19 (21°)	4-19 (21°)	4-25 (30°)	9-30 (32°)	10-24 (24°)	10-24 (24°)	188	188	158
Independence 2 W	97	8-7	-26	1-30+	4-16 (18°)	4-19 (28°)	4-24 (30°)	9-29 (26°)	9-29 (26°)	10-26 (20°)	193	163	158
Indianola	98	7-1	-16	1-22	3-19 (19°)	4-19 (27°)	4-24 (32°)	9-29 (30°)	10-24 (28°)	10-31 (18°)	226	188	158
Inwood 2 W	97	7-2	-24	1-22	4-3 (23°)	4-24 (26°)	5-24 (32°)	9-13 (32°)	9-28 (28°)	10-24 (20°)	204	157	112
Iowa City	95	7-1+	-	-	4-16 (22°)	4-19 (28°)	4-19 (28°)	9-29 (30°)	10-26 (24°)	10-26 (24°)	193	190	163
Iowa City AP CAA	97	7-1	-21	1-20	4-16 (17°)	4-19 (26°)	4-24 (32°)	9-24 (32°)	9-29 (28°)	10-26 (20°)	193	163	153
Iowa Falls 1 N	95	8-7	-20	2-2	4-16 (20°)	4-24 (27°)	4-24 (27°)	9-24 (32°)	9-29 (25°)	10-24 (24°)	191	158	153
Jefferson	94	6-30+	-17	2-2	4-16 (23°)	4-19 (25°)	4-24 (30°)	9-29 (29°)	10-24 (27°)	10-31 (18°)	198	188	158
Keokuk Lock & Dam 19	98	7-1+	-3	1-30	3-18 (21°)	3-19 (25°)	4-16 (30°)	10-31 (25°)	10-31 (25°)	-	226	226	198
Keokuk WB City	99	7-1	-4	1-29+	3-19 (24°)	4-16 (26°)	4-19 (32°)	10-26 (30°)	10-30 (28°)	10-31 (24°)	226	197	190
Keosauqua State Park	94	7-1	-	-	3-19 (18°)	4-16 (27°)	4-19 (30°)	9-29 (32°)	10-26 (28°)	10-31 (22°)	226	193	163
Knoxville 2 W	95	7-1	-13	1-29	4-16 (24°)	4-16 (24°)	4-19 (29°)	9-29 (31°)	10-26 (27°)	10-31 (19°)	198	193	163
Lake City	97	6-30+	-15	2-2	4-16 (24°)	4-25 (28°)	4-25 (28°)	9-28 (32°)	10-24 (23°)	10-24 (23°)	191	182	156
Lake Park	9												

TEMPERATURE EXTREMES AND FREEZE DATA

IOWA
1949

Table 3-Continued.

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
Oakland 2 E	96	7- 1	-15	2- 2	4-16 (24°)	4-19 (28°)	4-19 (28°)	9-23 (31°)	9-29 (24°)	9-29 (24°)	166	163	157
Oelwein	98	7- 1	-20	2- 2	4-16 (13°)	4-19 (27°)	4-24 (30°)	9-29 (27°)	9-29 (27°)	10-26 (22°)	193	163	158
Onawa	99	7- 3	-19	2- 4	3-18 (17°)	4-18 (27°)	4-19 (29°)	9-28 (31°)	9-29 (26°)	10-26 (23°)	222	164	162
Osage	94	8- 7	-22	2- 2	4-16 (19°)	4-24 (28°)	4-24 (28°)	9-14 (30°)	9-29 (22°)	9-29 (22°)	166	158	143
Osceola	99	7- 1+	-11	1-30	3-19 (21°)	4-19 (27°)	4-19 (27°)	10-22 (30°)	10-26 (27°)	10-31 (18°)	226	190	186
Oskaloosa	96	7- 1	-14	1-22+	3-19 (17°)	4-19 (26°)	4-24 (32°)	9-29 (28°)	9-29 (28°)	10-26 (22°)	221	163	158
Ottumwa 1 WSW	96	7- 1	-17	1-20	3-19 (17°)	4-19 (26°)	4-19 (26°)	9-29 (31°)	10-25 (27°)	10-26 (22°)	221	189	163
Ottumwa AP CAA 5 N	96	7- 1	-15	1-30	3-19 (20°)	4-16 (27°)	4-19 (30°)	10-24 (32°)	10-26 (27°)	10-31 (22°)	226	193	188
Perry 2 SE	94	8-23+	-15	2- 2	4-19 (24°)	4-19 (24°)	4-24 (30°)	9-29 (25°)	9-29 (25°)	10-26 (23°)	190	163	158
Pocahontas	97	6-30	-	-	4-16 (23°)	4-19 (25°)	4-19 (25°)	9-29 (26°)	9-29 (26°)	10-24 (24°)	191	163	163
Pringhar	97	7- 3+	-16	1-29+	4- 2 (24°)	4-24 (27°)	4-24 (27°)	9-13 (32°)	10-22 (28°)	10-31 (14°)	212	181	142
Red Oak	96	7- 1	-12	1-29+	4- 4 (24°)	4-19 (28°)	4-19 (28°)	9-23 (32°)	9-29 (25°)	10-26 (21°)	205	163	157
Rock Rapids	98	7- 3	-24	1-22	4- 3 (24°)	4-24 (27°)	4-24 (27°)	9-14 (32°)	9-29 (26°)	10-24 (22°)	204	158	143
Rockwell City	97	6-30	-16	1-30+	3-19 (20°)	4-24 (28°)	4-24 (28°)	9-28 (32°)	9-29 (28°)	10-31 (16°)	226	158	157
Sac City	-	-	-16	2- 2	3-19 (21°)	4-19 (28°)	4-24 (30°)	9-29 (32°)	10-24 (27°)	10-31 (17°)	226	188	158
Sanborn	97	7-25	-19	1-22	4-24 (24°)	4-24 (24°)	5-24 (32°)	9-13 (30°)	10-24 (25°)	10-31 (15°)	190	183	112
Saratoga 2 E	-	-	-	-	-	-	-	9- 1 (31°)	9-20 (28°)	9-29 (16°)	-	-	-
Sheldon	97	7-25	-21	1-22	4-19 (23°)	4-24 (26°)	4-24 (26°)	9-14 (32°)	10-22 (27°)	10-26 (21°)	190	181	143
Shenandoah	99	7- 1	-10	12-23	3-18 (22°)	4-16 (27°)	4-19 (30°)	9-29 (28°)	9-29 (28°)	10-31 (18°)	227	166	163
Sibley	96	7- 3	-31	1-22	4-24 (23°)	4-24 (23°)	4-24 (23°)	9- 1 (32°)	9-29 (24°)	9-29 (24°)	158	158	130
Sidney	99	6-20+	-	-	3-17 (24°)	3-19 (25°)	4-19 (31°)	10-22 (30°)	10-31 (19°)	10-31 (19°)	228	226	186
Sigourney	95	7- 1+	-14	1-30	4- 9 (23°)	4-15 (27°)	4-18 (31°)	9-29 (31°)	10-26 (24°)	10-26 (24°)	200	194	164
Sioux City WB Airport	99	7- 3	-17	2- 2+	3-18 (16°)	4-19 (27°)	4-24 (31°)	9-29 (29°)	10-25 (28°)	10-26 (23°)	222	189	158
Sioux Rapids	97	7-25	-27	2- 2	4-19 (24°)	4-24 (26°)	4-24 (26°)	9-14 (31°)	9-29 (25°)	10-24 (22°)	188	158	143
Spencer 1 N	-	-	-22	2- 2	4-24 (24°)	4-24 (24°)	4-24 (24°)	9-14 (31°)	9-29 (23°)	9-29 (23°)	158	158	143
State Center	95	6-20+	-13	1-22+	4-16 (24°)	4-16 (24°)	4-24 (30°)	9-29 (29°)	10-24 (28°)	10-26 (24°)	193	191	158
Storm Lake 2 E	93	6-17+	-18	2- 2	4- 2 (24°)	4-24 (25°)	4-24 (25°)	9-29 (29°)	10-24 (25°)	10-31 (16°)	212	183	158
Tingley	95	7- 1	-13	1-30	4-16 (24°)	4-19 (26°)	4-19 (26°)	9-23 (32°)	9-29 (27°)	10-26 (20°)	193	163	157
Tipton	99	7- 1	-14	1-20+	4-16 (18°)	4-19 (26°)	4-24 (30°)	9-29 (28°)	9-29 (28°)	10-31 (19°)	198	163	158
Toledo	95	7- 1+	-19	1-22	4-16 (22°)	4-19 (26°)	4-24 (29°)	9-29 (28°)	9-29 (28°)	10-26 (24°)	193	163	158
Tripoli	97	8- 7	-21	2- 2	4-16 (18°)	4-19 (26°)	4-24 (30°)	9-29 (25°)	9-29 (25°)	10-26 (21°)	193	163	158
Vinton	97	7- 1	-	-	4-16 (19°)	4-24 (28°)	4-24 (28°)	9-29 (25°)	9-29 (25°)	10-26 (22°)	193	158	158
Washington	96	7- 1+	-15	1-30	4-16 (23°)	4-19 (28°)	4-19 (28°)	9-29 (31°)	10-26 (23°)	10-26 (23°)	193	190	163
Waterloo	94	7- 1+	-20	2- 2	4-19 (24°)	4-19 (24°)	4-24 (29°)	9-29 (26°)	9-29 (26°)	10-26 (20°)	190	163	158
Waukeo	96	6-23+	-13	1-30	3-22 (23°)	4-16 (28°)	4-19 (29°)	9-29 (32°)	10-26 (25°)	10-30 (22°)	222	193	163
Waukon	96	8- 7	-	-	4-16 (17°)	4-24 (26°)	4-24 (26°)	9-29 (28°)	9-29 (28°)	10-31 (19°)	198	158	158
Webster City	100	8- 7	-24	2- 2	4-19 (24°)	4-24 (26°)	4-24 (26°)	9-24 (32°)	9-29 (24°)	9-29 (24°)	163	158	153
Williamsburg	94	7- 1	-15	1-30	4-16 (23°)	4-19 (27°)	4-24 (32°)	9-29 (31°)	10-26 (24°)	10-26 (24°)	193	190	158
Winterset	95	7- 1	-10	1-22+	3-19 (23°)	4-19 (28°)	4-19 (28°)	9-29 (30°)	10-24 (27°)	10-26 (24°)	221	188	163
Woodward 7 N	-	-	-17	2- 2	3-19 (20°)	4-16 (25°)	4-24 (31°)	9-29 (30°)	10-24 (28°)	10-31 (18°)	226	191	158

TOTAL EVAPORATION AND WIND MOVEMENT

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ames 3 SW	EVAP	-	-	-	4.75	6.06	7.57	7.90	7.56	4.97	3.54	1.68	-	-
	DEP	-	-	-	.15	.51	.23	1.35	.01	.62	.08	-	-	-
	WIND	-	-	-	2309	2239	1576	1250	1256	1876	2237	2460	-	-
Cherokee	EVAP	-	-	-	4.29	5.85	6.57	8.01	7.28	4.86B	3.00	1.85	-	-
	DEP	-	-	-	.20	.32	.30	.18	.39	.34	.45	-	-	-
	WIND	-	-	-	2787	2372	1590	1550	1576	1889	2210	2708	-	-
Iowa City	EVAP	-	-	-	4.89	6.28	6.86B	7.29	6.47	4.76	3.72	-	-	-
	DEP	-	-	-	.03	.57	.32	.51	.16	.26	.40	-	-	-
	WIND	-	-	-	2223	1728	1071	1050	882	1527	1713	-	-	-
Norwich SCS Exp. Farm 2 E	EVAP	-	-	-	-	6.28B	7.25B	9.33B	8.03	5.76	4.59B	-	-	-
	DEP	-	-	-	-	.40	.76	.19	.20	.63	.14	-	-	-
	WIND	-	-	-	-	-	1462	1486	1384	2189	2854	-	-	-

See reference notes following Station Index.

SOIL TEMPERATURES

IOWA
1949

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.
At a depth in the soil of 1 inch													
Average	20.1	23.5	28.8	41.2	58.8	69.3	74.5	69.7	63.8	48.6	35.5	26.2	46.7
7 AM	20.1	23.5	28.8	41.2	58.8	69.3	74.5	69.7	63.8	48.6	35.5	26.2	46.7
12 noon	23.2	25.3	37.0	57.3	72.5	83.9	91.1	85.4	69.6	56.8	40.9	29.7	56.1
7 PM	22.8	25.7	34.4	53.3	68.5	81.4	87.5	83.1	65.8	55.6	39.9	29.4	54.0
Highest	35°	32°	55°	72°	83°	99°	102°	94°	80°	71°	55°	46°	102°
Date	15	18+	28	25	12+	30	6	16+	9	8	12	11	7 - 6
Lowest	6°	14°	10°	31°	48°	60°	65°	59°	40°	31°	28°	13°	6°
Date	22	2	15	16	2	8+	30	20+	29	31	22	14+	1 - 22
At a depth in the soil of 2 1/4 inches													
Average	20.9	24.0	28.9	41.5	58.1	69.0	74.3	70.6	54.7	49.8	36.0	27.2	46.3
7 AM	20.9	24.0	28.9	41.5	58.1	69.0	74.3	70.6	54.7	49.8	36.0	27.2	46.3
12 noon	23.9	26.1	36.6	55.8	72.4	83.4	89.2	82.9	67.2	56.9	41.1	30.3	55.5
7 PM	23.5	26.2	35.1	53.2	68.7	80.8	86.5	83.0	66.7	56.7	40.7	30.1	54.3
Highest	34°	32°	53°	71°	84°	96°	100°	91°	76°	70°	54°	44°	100°
Date	15	18+	28	25	13	30	3	7+	2	3	11	11	7 - 3
Lowest	9°	14°	10°	32°	48°	61°	66°	60°	43°	32°	30°	15°	9°
Date	20+	2	15	16	2	15	30	20	29	31	22	14	1 - 20+
At a depth in the soil of 4 inches													
Average											38.6	29.4	
7 AM											38.6	29.4	
12 noon											40.6	30.5	
7 PM											42.1	31.1	
Highest											53°	40°	
Date											10+	3	
Lowest											33°	20°	
Date											22+	26	
At a depth in the soil of 6 inches													
Average	23.5	25.6	31.1	44.0	59.6	70.9	77.9	75.5	61.3	54.4			
7 AM	23.5	25.6	31.1	44.0	59.6	70.9	77.9	75.5	61.3	54.4			
12 noon	24.5	26.0	32.9	49.0	65.1	73.7	80.0	76.6	62.5	54.9			
7 PM	24.9	26.6	34.2	54.4	69.4	78.3	85.1	82.0	67.3	57.6			
Highest	33°	31°	48°	68°	78°	87°	91°	88°	76°	68°			
Date	8	18+	28	29	31	30	6	16	2	3+			
Lowest	14°	19°	21°	34°	48°	63°	73°	67°	53°	41°			
Date	20+	2	1	1	2	3	22+	21	30	31			
At a depth in the soil of 8 inches													
Average											42.0	32.1	
7 AM											42.0	32.1	
12 noon											41.8	32.3	
7 PM											43.0	32.5	
Highest											52°	39°	
Date											12	1+	
Lowest											36°	26°	
Date											23+	26+	
At a depth in the soil of 12 inches													
Average	26.9	26.8	31.2	45.7	61.1	71.1	77.9	76.3	64.3	57.0			
7 AM	26.9	26.8	31.2	45.7	61.1	71.1	77.9	76.3	64.3	57.0			
12 noon	26.7	27.0	31.3	45.5	60.6	70.5	77.2	76.6	63.8	56.6			
7 PM	27.0	27.0	31.6	48.2	63.0	72.0	78.4	76.5	64.5	56.9			
Highest	31°	30°	37°	59°	70°	78°	82°	81°	71°	65°			
Date	3+	19+	28+	30	31	30	7+	17	2	8+			
Lowest	21°	23°	27°	34°	53°	66°	74°	70°	58°	47°			
Date	22	2	1	1	2	3+	22+	21	29+	26+			
At a depth in the soil of 20 inches													
Average											46.9	37.9	
7 AM											46.9	37.9	
12 noon											47.1	38.1	
7 PM											46.6	37.9	
Highest											52°	43°	
Date											1	1	
Lowest											42°	34°	
Date											25+	28+	
At a depth in the soil of 24 inches													
Average	32.9	29.9	32.0	43.1	56.4	64.7	71.4	71.9	64.2	58.4			
7 AM	32.9	29.9	32.0	43.1	56.4	64.7	71.4	71.9	64.2	58.4			
12 noon	33.0	30.0	32.0	43.5	56.7	65.0	71.7	72.4	64.8	58.7			
7 PM	32.8	29.9	32.1	43.4	56.5	64.9	71.5	72.1	64.3	58.3			
Highest	35°	31°	34°	52°	62°	68°	73°	74°	70°	63°			
Date	1+	21+	30+	30	31	22	7+	9+	1	9+			
Lowest	30°	29°	31°	35°	51°	62°	69°	70°	60°	52°			
Date	27+	2+	1+	1	2	1+	1	21+	30	28+			
At a depth in the soil of 40 inches													
Average											50.3	42.4	
7 PM											50.3	42.4	
Highest											54°	46°	
Date											1	1+	
Lowest											46°	39°	
Date											29+	29+	
At a depth in the soil of 48 inches													
Average	38.8	35.2	35.0	40.5	50.5	57.9	65.0	67.2	63.5	58.8			
7 PM	38.8	35.2	35.0	40.5	50.5	57.9	65.0	67.2	63.5	58.8			
Highest	41°	36°	36°	45°	54°	62°	66°	68°	67°	61°			
Date	1+	1+	28	29+	30+	30	16+	12+	1+	1+			
Lowest	36°	34°	34°	36°	46°	54°	62°	66°	61°	55°			
Date	29+	28	1	1+	1+	1	1+	1+	28+	30+			
At a depth in the soil of 72 inches													
Average				41.4	48.1	54.6	60.5	63.5	62.0	59.1	54.1	48.2	
7 PM				41.4	48.1	54.6	60.5	63.5	62.0	59.1	54.1	48.2	
Highest				44°	51°	58°	62°	64°	64°	60°	57°	51°	
Date				27+	29+	30	21+	14+	1+	1+	1	1+	
Lowest				39°	44°	52°	58°	62°	60°	57°	51°	46°	
Date				1+	1	1+	1+	1+	28+	30+	30	25+	

Depths at which the soil thermometers were exposed were changed on November 1, 1949 to include the depths of 4 in., 8 in., 20 in., and 40 in. in conformity with the International Standards.

The range of diurnal changes at depths greater than 24 inches is about 1°.

Soil, when not frozen, is cultivated to a depth of about 2 inches after each important rain.

REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F; precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 4.

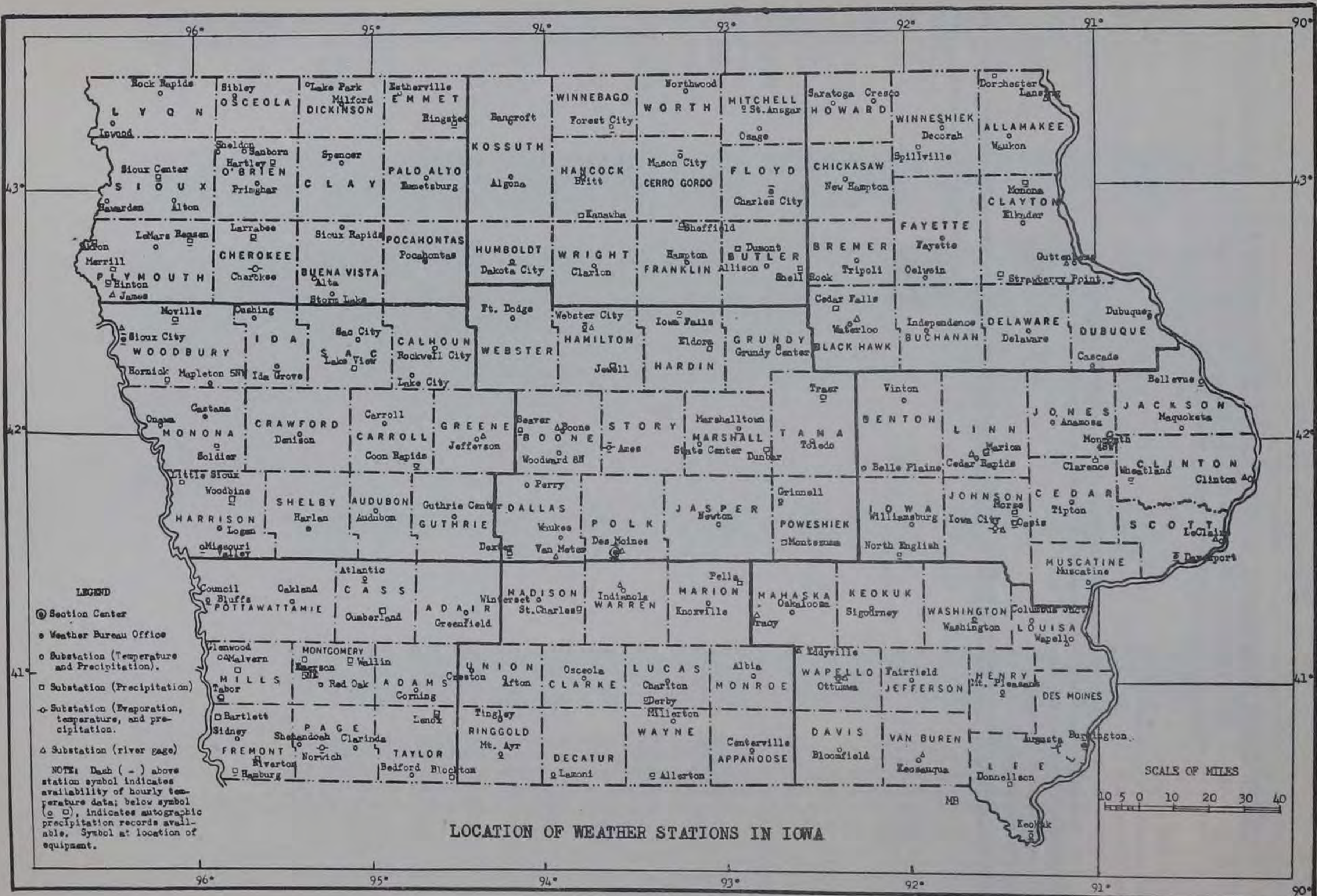
The four digit identification numbers in the Index are assigned on a state basis. There will be no duplication of numbers within a state.

Delayed data and corrections will be carried only in the June and December issues of Climatological Data.

- No record.
- + Also later dates or months.
- // Gage is equipped with a windshield.
- B Adjusted to full month.
- E Water equivalent of snowfall wholly or partially estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M 1 to 10 days' record missing; see monthly Climatological Data for detailed daily record.
- R Station equipped with a recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

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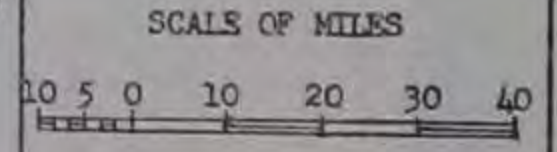


LEGEND

- ⊙ Section Center
- Weather Bureau Office
- Substation (Temperature and Precipitation).
- ◻ Substation (Precipitation)
- ◊ Substation (Evaporation, temperature, and precipitation).
- △ Substation (river gage)

NOTE: Dash (-) above station symbol indicates availability of hourly temperature data; below symbol (o ◻), indicates autographic precipitation records available. Symbol at location of equipment.

LOCATION OF WEATHER STATIONS IN IOWA



U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

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In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

JANUARY 1950

Volume LXI No. 1



KANSAS CITY: 1950

IOWA - JANUARY 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of January 1950 was an open winter month with temperatures and precipitation averaging near the normal for the State.

Temperatures for the State averaged 1.4 degrees below the long-period average. The greatest deficiency in temperature occurred in the northwest where several stations averaged 7 to 9 degrees below the normal. In the east, temperatures averaged slightly above the normal. There were four cold periods during the month when Iowa was blanketed by deep, cold air masses which had moved southeastward from the Mackenzie Basin of northwest Canada into the United States. These four cold periods lasted a total of 12 days in which temperatures in central Iowa averaged 8 degrees. There were 11 days during which the State was under the influence of dry air which had moved eastward across the Rocky Mountains. In the daytime, under sunny skies, temperatures would rise 8 to 16 degrees above the normal maximum for mid-winter. Temperatures in central Iowa averaged 32 degrees during these days. The remaining 8 days had mixed air masses, usually with warmer air overriding shallow cold air near the surface. Temperatures varied considerably with differences in cloudiness on these days, but averaged 24 degrees in central Iowa.

Precipitation amounts varied widely over the State, with the least precipitation in the western sections and the greatest in the southeast and east-central sections. Much of the precipitation in the latter sections occurred as rain in connection with the rainstorms which caused floods in the Ohio Valley. Moderate falls of snow occurred late in the month, over all sections except the extreme southeast. At the close of the month, snow in the amounts of 3 to 6 inches lay on the ground in most sections. The distribution of snowfall was such that traffic was maintained on most highways throughout the month. In a few instances, rural schools closed briefly because of icy highways.

This was the first month since June, 1949, to record precipitation amounts in excess of normal, generally throughout the State. However, with ground frozen over most of the State, little of the moisture was reaching sub-surface water levels except in the southeast, and water supplies continued low in many rural sections. The Geological Survey reported streamflow below normal in the interior of Iowa for the 9th consecutive month. Since July the streamflow on interior streams has been among the four lowest years of record.

The month opened with two mild days followed by a surge of cold air which lasted from the 3rd through the 6th. Heavy rains occurred in the southeast as the cold air pushed in from the northwest. Mild weather prevailed from the 7th through the 12th with very warm days. The days continued warm but with cold nights through the 17th followed by a brief cold spell on the 18th and 19th. Moderate to locally heavy rains fell over the southeastern half of the State on the 13th. Another warm period lasted from the 20th through the 24th. It was followed by a severe cold wave on the 25th through the 27th. Another brief mild period, and the month closed with the last of the cold periods. During the last two cold periods, temperatures fell below zero over most of the State except the southeast quarter, and the lowest temperature for the month, 31 degrees below zero was recorded at Decorah (2S) on the 27th.

CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
JANUARY 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30 A.M.	6:30 A.M.	12:30 P.M.	6:30 P.M.	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
Burlington WB Airport	SSE	15	16.5	48	NW	10	83	83	75	80	5	6	4	2	0	0	17	46	7.3	1187
Charles City WB City	-	-	7.4	29	SW	8	-	-	-	-	5	7	0	2	0	0	14	48	5.8	1586
Davenport WB City	-	-	-	-	-	-	-	-	-	-	9	2	5	3	0	0	19	-	-	1200
Des Moines WB City	NW†	13†	10.9	45	NW	10	75†	78†	67†	71†	9	2	3	1	0	0	15	56	6.7†	1379
Dubuque WB City	-	-	5.9	24	NW	17	-	-	-	-	11	5	1	2	0	0	19	51	6.9	1341
Sioux City WB Airport	NW	17	11.1	42	N	28	75	75	64	70	8	6	1	1	0	0	16	63	6.4	1628

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	12.0	55	-38	2.53			1903	23.0	60	-12	0.28	2.0	4	1933	32.5	62	-10	0.95	1.4	5
1874	19.6	64	-24	1.67			1904	14.0	57	-32	1.18	6.1	6	1934	26.9	67	-14	0.83	4.4	5
1875	4.9	48	-30	0.82			1905	11.2	56	-30	0.91	11.1	7	1935	20.6	58	-30	1.16	2.9	6
1876	23.5	62	-16	1.49			1906	24.6	69	-19	1.52	11.3	5	1936	9.5	56	-33	1.68	19.4	10
1877	13.7	58	-31	1.09			1907	18.8	68	-22	1.52	6.0	7	1937	12.8	46	-30	2.25	10.5	7
1878	25.4	55	-13	0.48			1908	24.9	60	-18	0.44	4.6	2	1938	21.0	59	-25	1.14	6.8	7
1879	16.1	54	-30	0.48			1909	21.2	72	-25	1.66	7.8	6	1939	28.7	69	-12	0.86	6.0	7
1880	32.0	68	-6	1.36			1910	18.1	56	-35	1.57	12.6	6	1940	8.4	45	-26	0.83	9.9	4
1881	9.6	48	-40	0.94			1911	20.2	66	-35	0.97	7.3	5	1941	23.8	59	-8	1.73	10.2	10
1882	23.4	60	-17	0.65			1912	4.2	49	-47	0.53	5.5	5	1942	21.6	64	-36	0.76	8.1	2
1883	8.0	46	-38	1.31			1913	20.9	62	-25	0.77	7.2	5	1943	16.7	54	-31	0.79	9.2	8
1884	13.3	52	-38	0.52			1914	27.8	64	-10	0.88	5.1	5	1944	30.1	70	-15	1.06	0.8	2
1885	9.4	51	-42	1.28			1915	17.5	59	-32	1.63	7.3	8	1945	19.3	49	-26	0.67	8.1	5
1886	8.1	52	-33	2.59			1916	17.8	63	-34	2.62	7.2	10	1946	22.8	61	-22	1.82	4.3	7
1887	8.8	55	-34	1.13			1917	17.0	60	-28	0.83	7.2	4	1947	26.0	64	-30	1.46	12.8	7
1888	5.4	58	-43	1.30			1918	8.6	53	-35	1.02	11.2	7	1948	17.6	58	-27	0.45	3.8	2
1889	21.6	62	-25	1.22			1919	26.8	64	-32	0.24	2.8	2	1949	18.1	63	-26	2.72	12.7	10
1890	18.0	64	-27	1.79			1920	16.7	58	-26	0.42	4.6	4	1950	18.4	73	-31	1.51	6.9	7
1891	26.0	58	-4	1.75		4	1921	28.4	67	-9	0.51	4.1	4	Period	18.8			1.12	7.2	
1892	18.3	62	-38	1.09		5	1922	19.8	57	-29	0.89	5.3	4							
1893	9.3	54	-34	0.74		6	1923	26.7	58	-10	0.85	6.5	6							
1894	19.3	69	-37	1.09		5	1924	13.9	59	-36	0.89	5.5	5							
1895	13.6	68	-31	0.85		4	1925	19.4	55	-24	0.40	4.2	3							
1896	23.4	68	-20	0.48		3	1926	22.7	58	-22	1.09	5.0	7							
1897	17.2	66	-30	2.01		7	1927	21.7	59	-27	0.29	3.0	4							
1898	23.4	52	-11	1.60		5	1928	25.2	70	-20	0.17	0.9	3							
1899	19.8	68	-34	0.28		3	1929	10.2	47	-29	2.06	17.5	9							
1900	25.6	66	-20	0.53		3	1930	10.5	58	-37	1.33	14.7	8							
1901	23.7	60	-21	0.74		4	1931	28.9	64	-15	0.50	5.1	2							
1902	22.4	63	-31	0.88		4	1932	22.5	61	-22	1.81	13.6	8							

CLIMATOLOGICAL DATA

IOWA
JANUARY 1950

Table 2

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	11.4	- 6.2	40	1+	- 21	26	31	.84	.03	.22	3	13.5	8	31	7			
Alton	12.8M	- 4.0	46	1	- 21	26	31	.78	.10	.40	25	7.5	5	25+	5	1		
Cherokee	11.2	- 6.2	42	1	- 24	26	31	.66	.04	.42	25	7.5	5	25+	6	1		
Emmetsburg	10.8		49	1	- 23	27	31	1.08		.60	25	12.5	5	30+	6	1		
Estherville	8.3	- 6.3	36	1	- 23	27	31	.96	.29	.32	26	11.5	9	26+	8	1		
Hawarden	12.0	- 5.5	43	1	- 22	26	31	.69	.09	.35	25	9.0	5	25+	9	1		
Inwood 2 W	7.8	- 7.2	42	1	- 26	26	31	.80	.19	.35	2	7.8	6	31	5	2		
Lake Park	7.9	- 5.6	39	1	- 25	26	31	.68	.05	.54	25	8.5	6		2	1		
Le Mars	12.4	- 5.9	45	1	- 21	26	31	.87	.25	.70	25	9.0	8	31	3	1		
Milford 4 NW	7.4	- 6.8	38	8	- 25	26	31	1.06	.41	.63	25	10.5	9	25+	8	1		
Pocahontas 2 SE	12.5M	- 4.4	42	1+	- 22	27	31	.22	-.59									
Pringhar	10.3	- 5.5	42	1	- 23	26	31	.54	-.14	.40	25	4.0	4	25+	2	1		
Rock Rapids	7.1	- 7.7	40	1	- 24	26	31	.68	.06	.32	25	8.5	7	25+	5	2		
Sanborn	8.4	- 6.4	37	1+	- 23	26	31	1.09	.41	.68	25	13.0	8	25+	5	1		
Sheldon	8.3	- 6.7	39	1	- 25	26	31	.72	.07	.38	25	13.6	9	25+	8	1		
Sibley	6.7	- 7.1	36	1	- 28	27	31	.97	.37	.48	25	12.0	8	31	7	1		
Sioux Rapids	7.4	- 9.0	44	8	- 27	27	31	.64	-.16	.30	25	13.0	10	25+	3	2		
Spencer 1 N	10.0M	- 4.8	39	8	- 29	26	31			.45	25	6	25+					
Storm Lake 2 E	11.8	- 5.8	40	1	- 20	27	31	1.01	.29	.65	25	13.5	6	25+	7	1		
DIVISION	9.7	- 6.2						.79	.11			10.3						
NORTH CENTRAL DIVISION																		
Algona	12.1	- 4.6	40	1+	- 20	27	31	1.17	.35	.65	25	10.2	8	25	9	1		
Allison	18.0M	1.5	45	2	- 17	27	29	1.79	.69	.60	13	5.5	4	31	7	3		
Bancroft	12.1	- 3.0	39	8	- 20	26	31	1.49	.64	.65	25	13.0	7	25	7	2		
Britt	10.2M	- 5.6			- 22	26+	31	2.03	1.30	.60	13	7.5	3	25	7	3		
Charles City	13.7	- 1.7	43	2	- 19	26+	30	1.37	.28	.53	13+	6.3	5	25+	9	2		
Clarion	13.8	- 3.2	42	1+	- 21	27	30	.68	-.32	.50	13	7.0	5	25+	8	1		
Dakota City	13.6	- 4.1	42	1	- 17	26+	31	1.01	-.14	.44	25	8.1	5	25+	5	1		
Forest City	10.7	- 4.5	39	2	- 23	27	31	1.28	.25	.30	26	5.5	4	26	9	1		
Hampton	15.9	- .4	41	2	- 18	27	29	1.73	.57	.85	13	5.0	4	25+	6	2		
Mason City 3 N	13.5	- 2.2	41	2+	- 21	27	30	1.18	.27	.54	13	7.9	4	25+	8	2		
Mason City AP CAA	10.8	- 4.9	41	2	- 20	26+	30	.88	-.03	.58	13	3.6	3	25+	7	1		
Northwood	12.9	- 1.7	40	2+	- 21	27	31	.95	-.13	.38	14	6.5	5	26+	7	2		
Oeage	13.8	- 1.2	45	9	- 23	27	31	2.07	.98	1.10	14	7.5	4	26+	5	3	1	
DIVISION	13.2	- 2.8						1.36	.37			7.2						
NORTHEAST DIVISION																		
Cascade	21.9M		50	3	- 13	19+	29	1.87		.75	25	5.0	4	30	8	3		
Cresco	15.9	1.9	42	2	- 23	27	29	1.16	.04	.56	13	5.0	3	31	3	2		
Decorah	17.9		45	1	- 30	27	29	1.19		.65	25	4.5	4	25+	3	2		
Decorah 2 S	16.1	1.6	49	10	- 31	27	29	.62	-.55	.45	26	6.0	8		1			
Delaware 2 W	18.8	1.1	49	24	- 10	19	29	1.85	.69	.83	25	5.0	3	30+	8	2		
Dubuque L & D 11	21.9	1.6	49	3	- 12	31	30	1.89	.68	.77	26	4.8	3	31	12	2		
Dubuque WB City	21.6	1.3	51	2	- 8	19	29	1.76	.55	.80	25	4.9	2	18+	8	2		
Elkader	17.8	.8	47	1	- 20	31	30	1.99	.84	1.15	25	6.5	6	31	6	2	1	
Fayette	18.1	1.6	46	2	- 20	27	29	1.67	.51	.89	25	6.9	4	31	6	2		
Guttenberg L & D 1	21.7	1.7	47	2+	- 17	31	29	1.44	.29	.87	26	7.5	5	31	8	2		
Independence 2 W	18.9	.5	46	1+	- 14	26	29	2.21	1.24	1.25	25	7.1	5	31	6	2	1	
New Hampton	12.7	- 3.1	43	2	- 27	27	31	1.21	.20	.49	13	6.5	5	31	7	2		
Oelwein	19.0	2.1	45	1+	- 11	26+	29	1.42	.34	.84	24	6.2	5	2				
Saratoga 2 E	14.2		41	2	- 25	27	29	.86		.60	13	8.7	6	25	6	1		
Tripoli	18.9		46	2+	- 20	27	29	1.97		.64	25	5.0		6	3			
Waterloo	18.3	-.9	46	1+	- 14	31	29	1.53	.48	.75	26	7.2	6	26+	7	2		
Waukon	16.7	1.0	43	1+	- 20	27	29	.41	-.74	.28	13	5.0	4	25+	3	1		
DIVISION	18.3	1.2						1.47	.35			6.0						
WEST CENTRAL DIVISION																		
Audubon 2 S	16.4	- 3.6	49	12	- 20	26	30	1.11	.16	.38	13+	6.2	4	25+	7	2		
Carroll	17.1	- 2.1	45	1+	- 18	26	31	.93	.15	.32	25	6.0	3	13+	6	2		
Castana 4 E	14.2		44	22	- 19	26+	31	.91		.51	25	12.4	7	25+	7	1		
Cushing 3 NE	12.0	- 6.7	43	1	- 21	26	31	1.17	.47	.72	25	15.1	10	30	7	1		
Denison 1 S	13.9	- 5.7	44	2	- 20	26+	31	.93	.18	.33	25		4	25+	6	2		
Guthrie Center	18.5	- 2.5	47	1+	- 14	26	31	1.01	.07	.39	13	3.9	2	30+	6	2		
Harlan	17.5	- 2.8	47	22	- 20	31	31	1.39	.61	.78	25	11.0	8	25+	7	2		
Ida Grove 4 S	13.7	- 5.4	42	1	- 21	26	31	1.02	.24	.68	25	11.0	8	30+	5	1		
Jefferson	17.7	- 2.1	46	1	- 15	26+	31	1.36	.41	.70	13	6.5	5	25+	5	2		
Lake City	14.5	- 4.0	43	1+	- 20	26	31	.69	-.31	.45	25	5.4	4	25+	4	1		
Logan	15.9	- 5.5	49	1	- 20	26	31	1.29	.54	.59	25	16.0	12	25+	8	2		
Mapleton 5 NW	12.7	- 7.3	42	1+	- 21	26+	31	.51	-.24	.20	25+	11.5	7	25+	4			
Missouri Valley	18.6	- 3.3	48	8+	- 19	26	31	1.38	.68	.63	25	13.2	8	30	7	2		
Onawa	14.8	- 6.2	48	22	- 24	26	31	.76	.01	.36	25	9.4	6	30+	7	1		
Rockwell City	14.4	- 3.8	43	1	- 18	26	31	1.17	.08	.51	25	13.2	6	31	8	2		
Sac City	13.4	- 5.2	43	1	- 19	26	31	.69	-.19	.22	25	8.7	6	30+	7			
Sioux City WB AP	12.4	- 5.9	45	22	- 23	26	31	.75	.09	.50	25	8.7	6	25	8	1		
DIVISION	15.2	- 4.7						1.00	.17			9.9						
CENTRAL DIVISION																		
Ames 3 SW	18.4	- 1.5	47	1	- 16	31	30	1.07	.20	.50	25	5.6	3	30+	7	2		
Boone	17.6	- 2.4	48	8	- 13	26	30	2.06	1.09	.74	25	6.8	4	31	9	3		
Des Moines WB AP	19.7	- 1.3	52	2	- 11	31	29	1.40	.35	.84	25	5.5	5	31	6	2		
Des Moines WB City	20.4	- 1.8	51	2	- 9	31	29	1.23	.18	.68	25	7.2	5	31	6	2		
Fort Dodge	14.7	- 2.7	44	1	- 16	26+	31	.87	-.04	.26	14	8.0	5	31	8	1		

CLIMATOLOGICAL DATA

IOWA
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Table 2—Continued

Station	Temperature							Precipitation										
	Average	Departure from normal	Highest	Data	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hall			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	01 or more	.25 or more	1.00 or more
Grinnell	21.4	.8	49	2	- 8	26		29	1.90	.75	1.00	26	8.0	8	31	7	1	1
Grundy Center 4 NE	18.2	.7	45	1+	- 14	27		29	1.47	.33	.59	13	4.0	3	26+	7	2	
Iowa Falls 1 N	16.1	- 1.4	43	1	- 21	27		29	1.51	.36	.50	14	9.0	6	26+	8	3	
Marshalltown	20.9	1.3	47	1+	- 17	31		29	1.44	.29	.80	26	8.0	7	31	6	2	
Newton	21.5	- .0	51	1	- 8	31		29	1.53	.33	.96	26	7.0	4	31	6	1	
Perry 2 SE	19.1	- 1.7	47	1	- 20	31		31	1.06	.06	.52	25	5.7	4	31	6	1	
State Center	21.1M	1.1						29	1.71	.60	.98	26	6.0	5	31	7	1	
Toledo	21.2	.6	49	22	- 9	31		29	1.34	.22	.70	25	7.5	7	31	5	2	
Waukeo	21.4	.6	52	2	- 11	26+		29	1.34	.22	.70	25	7.5	7	31	5	2	
Webster City	15.2	- 2.0	44	1+	- 20	27+		30	1.50	.56	.85	13	8.5	6	30+	5	2	
Woodward 7 N	20.8M	.3																
DIVISION	19.2	- .7							1.44	.37			6.9					
EAST CENTRAL DIVISION																		
Anamosa 1 NW	21.8	2.8	49	21	- 9	19		28	2.41	1.21	1.16	25	2.4	2	31	10	2	1
Belle Plaine	21.5	1.4	48	2	- 9	31		29	1.95	.60	1.04	25	8.8	6	31	10	2	1
Bellevue L & D 12	23.7	2.4	51	25	- 11	19		30	2.87	1.57	1.08	25	5.3	4	31	11	4	1
Cedar Rapids No. 1	22.2	1.9	50	2+	- 7	26		29	2.37	1.28	.89	26	6.5	5	31	10	3	
Clinton No. 1	26.8	3.8	56	24	0	19		28	2.81	1.29	.90	25	3.3	3	31	11	3	
Davenport WB City	26.0	2.8	65	24	1	5+		26	3.02	1.62	.70	13	1.8	1	30+	10	4	1
Iowa City AP CAA	22.4	1.5	52	2	- 11	31		29	3.32	2.09	1.42	25	5.1	5	31	7	4	
Le Claire L & D 14	27.8M		63	24	2	4+		27	3.82	2.39	.96	3	2.0	2	31	12	6	
Maquoketa 5 E	23.9	3.9	51	3+	- 4	19		28	3.13	1.81	1.38	25	4.0	4	31	10	4	1
Monmouth 4 SW	23.2M	3.2																
Muscatine No. 1	26.6	3.3	59	24	0	4+		28	2.21	.86	.75	13	1.5	2	30+	10	4	
Tipton	24.9	4.1	56	24	- 4	5+		29	2.48	1.18	.79	13	6.0	6	31	9	4	
Vinton	21.2	1.7	48	2+	- 15	31		29	1.93	.85	.95	25	5.5	4	31	4	3	
Williamsburg	22.6	1.9	50	2	- 7	31		29	2.27	1.07			7.6	4	30+	7		
DIVISION	23.9	3.0							2.66	1.38			4.6					
SOUTHWEST DIVISION																		
Atlantic 1 E	19.6	- 1.7	52	22	- 18	31		31	1.08	.13	.43	13	4.5	4	31	6	2	
Atlantic AP CAA	17.4	- 3.9	49	22	- 23	31		31	.70	-.25	.32	13	3.9	2	31	5	1	
Bedford 1 N	23.1	-.2	53	2	- 9	26		30					7.5	5	30+			
Clarinda	21.3	- 1.7	51	2	- 16	31		30	.59	-.32	.15	13	5.5	3	31	9		
Corning 1 W	20.2	- 2.3	53	2	- 11	26		30					3.2					
Council Bluffs 5 NE	18.8		48	17+	- 22	31		31	1.11		.43	25	7.8	4	25+	8	2	
Glenwood 2 E	20.3	- 3.1	52	28	- 17	31		31	.62	-.12	.14	13	7.0	3	30+	6		
Greenfield	20.1M	- 1.0	51	2	- 12	25		29	.86	-.11	.35	26	4.9	4	30	4	1	
Worwich 2 E SCS Farm	22.2	-.6	52	2	- 10	26		30	.83	-.02	.25	13	8.6	3	30+	6	1	
Oakland 2 E	18.6	- 4.0	48	2	- 21	31		31	.90	.05	.43	13	2.8	2	30+	8	1	
Red Oak	20.3	- 2.6	51	2	- 21	31		30	.65	-.20	.21	13	5.0	3	30+	7		
Shenandoah	22.3	- 1.5	53	2	- 15	31		30	.68	-.17	.17	3	6.2	4	31	5		
Sidney	21.3		53	28	- 12	26		31	.30		.20	31	6.2	5	31	4		
DIVISION	20.4	- 2.3							.76	-.10			5.6					
SOUTH CENTRAL DIVISION																		
Albia	24.6	1.5	54	2	- 5	4+		29	2.06	.95	.57	26	6.0	6	31	10	3	
Centerville	26.4	2.3	56	2+	- 5	4+		29	2.63	1.52	.78	13	7.7	4	30+	8	4	
Chariton 3 E	24.2	1.3	54	2+	- 8	26		29	1.88	.83	.80	13	5.0	3	30+	4	3	
Creston	21.0	-.3	52	2	- 11	31		30	1.00	.05	.32	26	7.8	5	30+	8	1	
Indianola	22.7	.2	53	2	- 9	26		29	1.67	.54	.90	25	8.5	6	31	5	2	
Knoxville 2 W	24.1	1.1	54	2	- 6	4+		29	2.42	1.20	1.05	25	8.0	8	31	6	4	1
Lamosi	23.8	.4	54	2	- 6	4+		29	1.50	.47	.64	25	7.0	6	31	6	2	
Lamosi AP CAA	21.9		54	2	- 6	4+		30	1.05		.42	25	6.6	5	30+	6	2	
Millerton	24.9	1.3	55	2	- 7	26		29	1.33	.29	.70	25	6.3	5	31	6	2	
Mount Ayr 2 N	23.9	.4	54	2	- 8	26+		29	1.11	.10	.63	25	3.9			4	1	
Osceola	23.3	.6	53	2	- 8	26		29	1.73	.73	1.03	25	6.5	5	31	5	2	1
Tingley	20.1	- 2.6	53	2	- 14	31		30	1.42	.47	.65	25	5.4	4	30+	6	3	
Winterset	23.1	.5	54	3	- 11	31		29	1.15	.22	.62	25	5.0	3	30+	7	2	
DIVISION	23.4	.5							1.61	.57			6.4					
SOUTHWEST DIVISION																		
Bloomfield 2 N	24.3M	.1						28	2.29	.99	.99	13	5.0	3	30+	7	3	
Burlington WB AP	26.5	2.6	58	2	0	4+		28	2.76	1.01	.66	13	1.6	1	30+	12	4	1
Columbus Junction	27.2M	3.9						27	2.81	1.61	.78	13	3.5	3	30+	11	5	
Fairfield	24.1	1.0	60	25	- 2	4+		27	3.16	1.64	.98	13	T	T	5+	10	4	
Keokuk L & D 19	27.2	.6	68	25	2	5		27	3.16	1.64	.98	13	T	T	5+	10	4	
Keokuk WB City	28.2	1.6	73	24	- 2	4		25	3.17	1.65	.94	13	.7	1	31	10	5	
Keosauqua State Park	27.9	3.9	57	2+	- 1	4		28	2.94	1.57	.87	13	2.0	2	30+	6	4	
Mount Pleasant	27.2	3.0	65	24	- 1	4+		26	2.95	1.61	.91	13	1.0	1	30+	7	5	
Oskaaloosa	24.6	2.3	53	2	- 4	26+		29	2.64	1.44	.66	26	10.0	6	31	9	5	
Ottumwa AP CAA	23.2	- 1.0	55	2	- 3	25		29	2.37	1.22	.95	25	4.0	3	31	9	3	
Sigourney	24.8	2.4	56	3	- 5	26		29	2.41	1.22	.74	25	6.6	5	26+	9	3	
Washington	25.3	2.6	57	24	- 3	26		29	2.44	1.12	.84	25		3	31	9	2	
DIVISION	25.9	2.2							2.72	1.39			3.4					
STATE	18.4	- 1.3							1.51	.50			6.9					

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
JANUARY 1950

Table 3—Continued

Station	Day of month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Le Mars			T	.08								T	.26				T								.70					T	.09	.87		
Leona	R		.05	.30									.26												.46					.13	.46	1.20		
Logan			.10	.15	.01								.25							.04					.08	.59				.07	T	1.29		
Malvern 5 W																			.10						T	T				.13	.03			
Mapleton 5 NW			T	.09	T																				.20	.20				.20		.51		
Mapleton 2 SW			T	.15	T							T	T	.69	.12	.03								T	.10	.50				.20		.95		
Maquoketa 5 E		.02	.09	.38	T						T	T	.60											T	.05	1.38				.12	.25	3.13		
Marion 4 NE	R		.16	.07									.26												*	*		*	*	*	1.33	2.16		
Marshalltown	Z			*	.22								.26						.04						T	.80				.12	1.44			
Mason City 3 N		.01	.02	.19							T	T	.54			T		.03						T	.03	.34				.02	T	1.18		
Mason City AP CAA	G		T	.02	.07	T					T	T	.58			T		.01						T	.02	.15				.03	T	.88		
Merrill 5 W				.21									.06		.02			.02							T	.16	.28			.02	.02	1.06		
Millford 4 NW			.03	.19	T						T		.08				T	.08							.10	.70			.02	.06	1.33			
Millerton				.31									.08												.07	.63				.15	T	1.38		
Missouri Valley	Z		.06	.12	T								.31						.04															
Monmouth 4 SW			T	.05	T						T	T	.57			T										.76								
Monona	R		.02	.11	.04								.41													.80				.03		1.41		
Montezuma		.14	T	.08									.34	.09											.01	.25	.65			.17	1.73			
Morse	R		.15	.07									.67												.36	1.30			.08	.03	2.67			
Morse 1 NE	R		.18	.07									.62												.39	1.29			.04	.01	2.61			
Morse 4 SW	R		.13	.06								*	.70																.11		1.11			
Mount Ayr 2 N	Z			.15									.22												.63				.30		2.95			
Mount Pleasant	Z	.10	.15	.44									.91	T											.77	.28			.06		.94			
Moville	R		.04	.16															.06							.62				.10	T	2.21		
Muscataine No. 1	Z		.01	.05	.35	T				.07	T		.01	.75		.03								T	T	.34	.50			.10	T	2.21		
Muscataine No. 2		.42	T	.17	.15					.06	T	T	.49	.17	.01										T	.17	.08	.22		.03	.01	1.95		
Muscataine 6 N	R		.40	.09						.10		.13	.56		.05										.30	.05	.55			.02	.95	2.26		
Nashua 2 NW		T	.02	.08	.04								.05	.38												.04	.46	.30		.03	.12	1.21		
New Hampton			.09	.09		.01							.49													T	.14	.96		.15	1.53			
Newton			.01									T	.11	.16		T	T	T								.14	.96							
North English	R		.15	.10									.54												.01	.95			.08	.02	1.85			
Northwood		T		.06	.12								T	.38	.01				.04						T	.07	.27			T	.95			
Norwich 2 E SCS	Z		.02	.21									.25							.09						.16			.10		.83			
Oakland 2 E			.05	.15									.43							.01					T	.01	.19		.05	.01	.90			
Oasis	R		.11	.12									.61		.03											.33	1.11		.10		2.41			
Oelwein			.05	T	T								.40						.03						T	.84			.08	.10	1.42			
Osawa			.05	.15	.01							T	.06						T	T					T	.05	.36			T	.76			
Osage	T			T	.15								T	1.10					.05							T	.32	.45			T	2.07		
Osceola				T	.23								.30													T	1.03		.13	.04	1.73			
Oskaloosa		.27	.11	.21	T								.55	.02												.07	.46	.66		.29	2.64			
Ottumwa AP CAA		T	.15	.30	T					.01		.06	.62											T	.07	.95	T		.16	T	2.37			
Ottumwa		.40	.07		.16						.06		.75	.10											T	.18	.40	.18		.23	2.53			
Perry 2 SE		*	*	.16	*	*	*	*	*	*	*	*	.19	*	T	*	*	*	.04	*	*	*	*	*	*	*	*	*	*	*	.22		1.06	
Pocahontas 2 SE		*	*	*	*	*	*	*	*	*	*	*	*	*	T	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.22		.22
Pringhar		T		.14									T	T													.40			T		.54		
Red Oak		T	.01	.14									.21														.01	.13		.10	T	.65		
Rensselaer	R			.14																							.42			.06		.62		
Ringsted	R		.03	.20									.13						.04							.04	.50			.05		.99		
Riverton			*	.15									T							.10							.18			.12		.55		
Rock Rapids			T	.27									.02							.05						.02	.32			T		.68		
Rockwell City	Z		.02	.22									.25						.08							.01	.51		.03	.05	1.17			
Sac City			.08	.13	T								.08						.07							.03	.22		.08		.69			
Saint Ansgar 2 S	R		.08	.12									.70					.04								.05	.31		.03		1.33			
Saint Charles	R		.03	.15									.28													.06	.73		.25		1.50			
Samborn		.03	T	.22						.10			T													.68			T		1.09			
Saratoga 2 E			.05	.06									.60		.01											.01	.13					.86		
Sheffield	R		.05	.10									.98													.04	.15			T	.03	T	1.32	
Sheldon			.02	.17									.03						.01	.05						.03	.38					.72		
Shell Rock	R		.13	.08									.02	.38													.41					1.02		
Shenandoah		T		.17									.16							.09						T		.10		.16		.68		
Sibley			.05	.19						.01			.04														T	.48			T	.10	.97	
Sidney				T									.02							.10							T		.05	.20	.30			
Sigourney		.21	.18	.17						.02			.61														.07	.74	.39		.02	2.41		
Sioux Center	R			.17									.02						*	.04						*	.17		.06		.46			
Sioux City 8 N		.05		.04									.02													.50			.01		.62			
Sioux City WB Airport	Z		T	.01	.13	T					T	.01								.03					T	.02	.50			.04		.75		
Sioux City 4 N				.15																.08							.16	.26	T	T		.21	.86	
Sioux Rapids			T	.09																						.25	.30			.10		.64		
Soldier	R		.04	.10									.09													.05	.47			.10		.85		
Spencer 1 N	G		T	.23	T								.16													.04	.45							
Spillville	R		.08	.05	.03								.39							.02								.55		.01		1.13		
State Center			.07	.12							T	T	.48							T										T		1.01		
Storm Lake 2 E			.03	.10	.01								.05																					

HOURLY PRECIPITATION

Table 4

IOWA
JANUARY 1950

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-1st-																									
ATLANTIC AP CAA	//	.01																							.01
BEAVER																									.01
BELLEVUE L/D 12					.01	.01																			.02
BURLINGTON WB APT	//					.01	.01																		.03
CASCADE		.02	.01	.01																					.04
CENTERVILLE																									.01
COON RAPIDS														.01	.01										.02
BARTLEY 3S																									
IOWA CITY AP CAA	6	.01																							
IOWA C RALSTON CRK2				.01																					.01
IOWA C RALSTON CRK3		.01	.01																						.02
IOWA C RALSTON CRK5			.01	.02	.01																				.03
IOWA FALLS 1N																									
MONONA			.01	.01																					.02
MOUNT PLEASANT		.01	.01	.01	.04	.03																			.10
WASHINGTON				.01	.01	.01																			.03
-2d-																									
ALLERTON			.01	.07	.02																				.10
AMES 3SW																		.01	.02	.01					.04
BELLEVUE L/D 12														.02	.01	.05	.11	.02	.02	.01	.01	.06	.01		.32
BURLINGTON WB APT	//							.02	.01				.02	.01	.03										.06
CASCADE																									.18
CENTERVILLE		.01	.02			.07	.05									.01		.01	.01	.04	.08	.02	.01		.28
CHARLES CITY													.02	.02	.01	.01	.01	.01	.01	.01	.01				.09
CHEROKEE														.04	.01										.05
COON RAPIDS								.01	.01					.01	.01	.01	.01	.01							.07
COUNCIL BLUFFS 6 NE													.01	.02	.05										.08
DAKOTA CITY																.02	.01	.01							.04
DAVENPORT WB CITY												.01	.03	.03	.06								.03	.41	.10
DERBY					.05	.01	.02	.02																	.10
DES MOINES WB APT			.01																						.01
DES MOINES WB CITY					.01																.01				.02
DEXTER																	.01								.01
DUBUQUE WB CITY													.02			.03		.01	.01			.02			.09
FOREST CITY																.01	.01								.04
GRINNELL		.01	.01	.01						.01	.01							.01	.01						.05
HORNICK																									.05
IOWA CITY AP CAA	6	*	*	*	*	*	.01	*	*	*	*	*	*	.06	*	*	*	*	*	.03	*	*	*	*	*
IOWA C RALSTON CRK1		.01	.01											.01	.01			.01	.01	.03	.01	.01			.12
IOWA C RALSTON CRK2		.01		.01										.04	.01	.02				.03	.01	.01			.14
IOWA C RALSTON CRK3			.01	.01										.03	.01	.01				.03					.10
IOWA C RALSTON CRK4				.01	.02	.01								.04	.01	.01	.03	.01		.03					.15
IOWA C RALSTON CRK5				.01	.02	.01								.05	.01		.04	.01		.04					.19
KOKUK WBO							.01	.03	.04	.02															.10
KNOXVILLE 2W																					.03	.01	.01		.05
LAMONI						.01	.01																		.02
LAMONI AP CAA 4NW	6	*	*	*	*	*	.03	*	*	*	*	*	*	.02	*	*	*	*	*	*	*	*	*	*	*
LARRABEE																.03									.03
LENOX									.02	.01	.02														.05
MARION 4NE												.01	.03	.02	.01					.05	.03	.01			.18
MARSHALLTOWN NO 2									.02	.01	.02	.02	.01	.01	.01			.01		.01	.02				.13
MASON CITY AP CAA	6	*	*	*	*	*	*	*	*	*	*	*	*	.01	*	*	*	*	*	*	.01	*	*	*	*
MISSOURI VALLEY										.01	.01	.02	.02												.06
MONONA																.04	.04	.02	.01						.11
MORSE							.02	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.15
MORSE 1NE							.02	.03	.04	.01	.02	.01	.02	.03	.01	.02	.03	.01	.01	.01	.01	.01	.01	.01	.18
MORSE 4SW							.01	.04	.01	.02				.01	.01				.03						.13
MOUNT AYR 2N																		.03					*	*	*
MOUNT PLEASANT					.02	.08	.01							.02											.13
MOVILLE												.02	.02												.04
MUSCATINE NO 1							.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01					.09	.01		.16
MUSCATINE 6N							.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01			.09	.27				.40
NORTH ENGLISH							.04	.11																	.15
NORWICH 2E SCS FARM								.01	.01																.02
OASIS		*	*	*	*	*	*	*	*	*	*	*	*	.03	.01	.01				.02	.02	.02			.11
OTTUMWA AP CAA		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.15
RINGSTED														.02	.01						.15				.15
ROCKWELL CITY												.01	.02					.01							.03
ST ANSGAR 2S													.02	.01	.02		.01	.01	.01	.01	.01	.01			.04
SAINT CHARLES					.01	.01						.01	.02	.01	.02		.01	.01	.01	.01	.01	.01			.08
SHEFFIELD												.01	.01	.01	.01				.02	.01	.01				.05
SHELL ROCK												.01	.05	.01	.01	.01	.01	.01	.01	.01	.01	.01			.13
SIOUX CITY WB APT													.01	.01	.02	.01									.01
SOLDIER																									.04
SPENCER 1N	6															.02									
SPILLVILLE																.03	.01	.01	.02	.01	.03	.02	.01		.08
STRAWBERRY POINT																.10	.02	.02	.01	.03	.02	.01			.21
TABOR 6NW								.01	.01	.01															.03
TRAEER												.01	.01							.01					.03
WASHINGTON							.05	.01													.08	.07	.01		.22
WEBSTER CITY														.01	.02	.01	.01	.01	.01	.01	.01	.01			.05
WHEATLAND																.02	.02								.07
WOODBINE 5SE													.02	.02						.01	.01	.01			.04
-3d-																									
ALLERTON			.01	.04	.05	.08	.02																		.20
AMES 3SW						.03	.05	.02	.01	.02	.01														.14
ATLANTIC AP CAA	//		.03	.09	.02	.01																			.15
BELLEVUE L/D 12									.04																.04
BURLINGTON WB APT	//						.13	.18	.21	.06	.05	.02													.65
CASCADE									.08																.06
CENTERVILLE				.07	.13	.12																			

HOURLY PRECIPITATION

Table 4-Continued

IOWA
JANUARY 1950

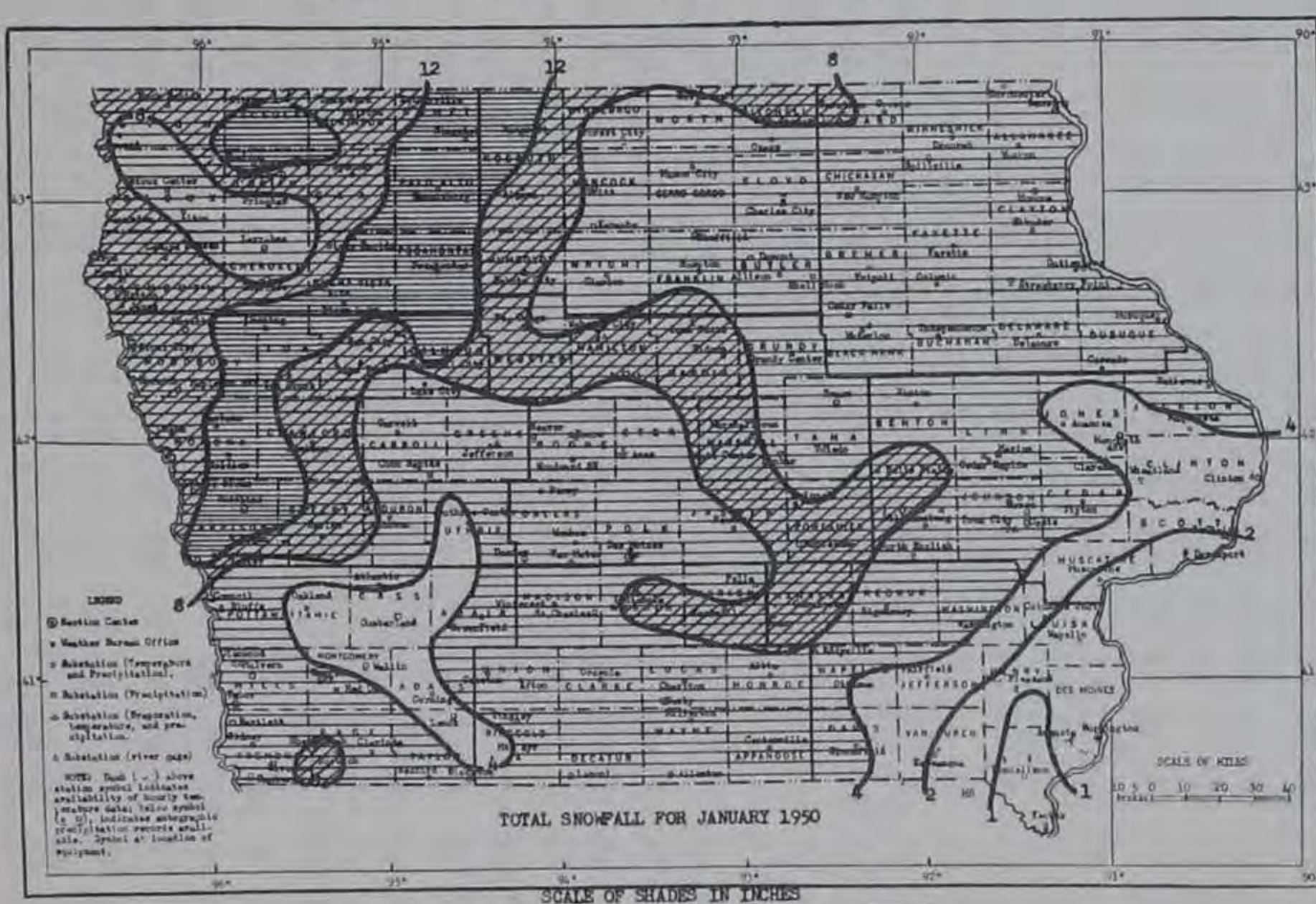
Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
COON RAPIDS					.01	.01		.03	.09	.17	.01													.32	
COUNCIL BLUFFS 6 NE						.03	.03		.01	.07	.09	.04	.02	.01	.01									.06	
DAKOTA CITY										.01														.25	
DAVENPORT WB CITY	.12	.05	.03	.03	.06	.13	.06	.07	.12	.01												.02	.70		
DERBY	.04	.06	.05	.10	.06	.04	.01	.01	.02	.05	.01	.01	.01	.02	.03	.03							.49		
DES MOINES WB APT			.02	.02	.07				.02	.02		.05	.02	.02									.28		
DES MOINES WB CITY			.01	.02	.05	.02	.01	.01	.03	.01		.05	.02	.02									.25		
DEKTER				.04	.01				.01	.01	.03	.06	.02	.02									.20		
DUBUQUE WB CITY				.06	.10	.11	.09	.04	.07	.03		.03	.01	.01			.01	.01					.57		
FOREST CITY										.01	.02	.10	.04	.03	.01								.21		
GREENFIELD			.01	.03	.01					.03	.07	.03	.01										.14		
GRINWELL	.02	.04	.06	.06	.06	.03	.03					.04	.02	.03	.01								.40		
HAMBURG					.01	.03	.01																.05		
IOWA CITY AP CAA	.02	*	*	*	*	*	.55	*	*	*	*	*	.19	*	*	*	*	*	.02					.70	
IOWA C RALSTON CRK1	.01	.02	.05	.03	.06	.07	.17	.09	.07	.08	.03					.01	.01						.68		
IOWA C RALSTON CRK2	.04	.05	.02	.06	.12	.14	.08	.09	.06							.03							.66		
IOWA C RALSTON CRK3	.01	.05	.04	.06	.08	.17	.07	.07	.08							.03							.66		
IOWA C RALSTON CRK4	.03	.04	.03	.07	.14	.16	.04	.05	.07	.01			.01	.02	.02	.04							.70		
IOWA C RALSTON CRK5	.01	.04	.03	.07	.16	.13	.07	.09	.08							.01							.69		
KEOKUK WBO	.25	.12	.07	.03	.06	.10	.07	.08	.02														.80		
KNOXVILLE 2W										.01	.04	.05											.10		
LAMONI	.05	.06	.07	.06	.05	.04	.01	.01															.36		
LAMONI AP CAA 4WNW		*	*	*	*	*	.29	*	*	*	*	*	.05	*	*	*	*	*	.01					.26	
LENOX			.02	.06	.01	.01			.02	.08	.02	.02	.02										.60		
MARION 4NE			.05	.15	.08	.11	.05	.06	.05	.01	.01	.02	.09	.06	.01	.01	.01						.46		
MARSHALLTOWN NO 2		*	*	*	*	*	.01	*	*	*	*	*	.36	*	*	*	*	*	.21					.30	
MASON CITY AP CAA							.08	.12	.07	.02	.01												.41		
MISSOURI VALLEY																							.67		
MONORA	.02	.01	.01	.03	.02	.04			.03	.04	.01			.02	.07	.11							.62		
MORSE	.02	.06	.06	.06	.12	.14	.07	.06	.06	.02													.70		
MORSE 1NE	.01	.05	.05	.09	.07	.15	.03	.09	.06	.02													.22		
MORSE 4SSW	*	*	*	*	*	*	*	.70															.84		
MOUNT Ayr 2N				.09	.04	.03				.02	.01	.01	.03	.01	.01								.54		
MOUNT PLEASANT	.09	.11	.06	.11	.14	.09	.09	.08	.04	.02	.01												.56		
MUSCATINE NO 1	.09	.02	.01	.07	.11	.14	.01	.08	.08	.02	.01												.54		
MUSCATINE 6N	.11	.04	.01	.03	.10	.16	.01	.09	.01														.25		
NORTH ENGLISH		.01	.05	.10	.10	.14	.02	.06	.06	.01													.81		
NORWICH 2E SCS FARM			.04	.04	.02	.01	.06	.04	.03	.01													.62		
OASIS	.02	.06	.03	.06	.09	.14	.06	.03	.12									.62					.13		
OTTUMWA AP CAA	*	*	*	*	*	*	*	*	*	.01	.01	.04	.05	.02									.18		
RINGSTED										.03	.06	.06	.03										.70		
ROCKWELL CITY										.05	.13	.11	.14	.16	.11	.04	.05	.01					.28		
ST ANSGAR 2S										.01	.02	.02	.03	.01	.05								.98		
SAINT CHARLES	.01	.01	.03	.04	.03	.02				.02	.16	.22	.23	.24	.03	.02	.03	.03					.38		
SHEFFIELD										.02	.16	.22	.23	.24	.03	.02	.03	.03					.02		
SHELL ROCK	.01	.02	.01			.01	.03	.02	.02	.02	.03	.03	.09	.08	.01								.01		
SIoux CENTER														.01	.01								.09		
SIoux CITY WB APT										.01	.07	.01											.39		
SOLDIER										*	*	*	*	.02	*	*	*	*	.14				.48		
SPENCER 1N										.01	.02	.02	.02	.03	.05	.07	.02	.02	.04				.07		
SPILLVILLE			.01	.01	.01	.02	.02	.02	.02	.01	.02	.02	.03	.02	.01	.01	.08	.04	.02	.01			.44		
STRAWBERRY POINT			.01	.02	.04	.08	.03	.03	.05														.18		
TABOR 6NW				.05	.02																		.07		
TRAEr		.01	.01	.02	.08	.01	.04	.03	.03	.05	.05	.01	.01	.01	.08	.10							.18		
WALLIN 2WNW										.01	.07	.05	.05										.63		
WASHINGTON	.06	.04	.09	.12	.14	.08	.06	.03	.01	.17	.22	.23	.06	.01	.01								.89		
WEBSTER CITY							.06	.06	.13	.06	.13	.17	.22	.23	.06	.01	.01						.66		
WHEATLAND	.04	.06	.03	.04	.07	.17	.04	.02	.10	.06	.10	.06	.10	.02			.01						.17		
WOODBINE 5SE						.04	.07	.03	.02	.02													.17		
-14th-																									
ATLANTIC AP CAA	//																				.02	.04	.01	.07	
CASCADE										.02	.02												.01	.04	
COON RAPIDS																					.03	.03	.04	.03	
COUNCIL BLUFFS 6 NE																							.01	.01	
FOREST CITY																							.01	.01	
KEOKUK WBO																					.02			.02	
TABOR 6NW																						.01	.01	.01	
WASHINGTON																							.01	.01	
-15th-																									
BELLEVUE L/D 12	//	.04		.01																				.05	
BURLINGTON WB APT		.02	.01																					.03	
CHARLES CITY			.02																					.02	
COON RAPIDS		.03	.04	.06																				.13	
COUNCIL BLUFFS 6 NE		.01	.01																					.02	
DAVENPORT WB CITY			.05	.03																				.08	
FOREST CITY		.01	.01																					.02	
KEOKUK WBO	*	*	.15																					.15	
MUSCATINE NO 1	.03																							.03	
MUSCATINE 6N	.05																							.05	
OASIS																								.03	
ST ANSGAR 2S	*	*	*	*	*	*	.04																	.04	
WASHINGTON	.01	.01																						.02	
-17th-																									
CHARLES CITY																					.01			.01	
SIoux CENTER															.01									.02	
SPILLVILLE																								.02	
-18th-																									
AMES 3SW	.01		.01	.01						.02	.01	.01	.01	.01										.03	
CASCADE																								.06	
CHARLES CITY										.01	.01	.01	.01											.01	
DUBUQUE WB CITY						.02	.01	.01	.01	.01														.03	
FOREST CITY						.01	.01	.01																.05	
HINTON 5WNW	*	*	*	*	*	.05																			

HOURLY PRECIPITATION

IOWA
JANUARY 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
	-31st-																								
AMES 3SW											.01														.01
ATLANTIC AP CAA	//	.03																							.03
BEAVER																									.01
BELLEVUE L/D 12		.01																							.01
DERBY		.01																							.01
DUBUQUE WB CITY		.01																							.01
HARTLEY 3S																									
IOWA CITY AP CAA	6	.11	*	*	*	*		.01																	
IOWA FALLS 1N																									
LAMONI AP CAA 4NW	6	.01																							
MARION 4NE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.33
MASON CITY AP CAA	6	.03																							.03
MORSE		.02	.01																						.01
MORSE 1NE		.01																							.01
MORSE 4SSW																									.02
NORTH ENGLISH			.01	.01																					
SPENCER 1N	6	.01																							.02
WASHINGTON					.01	.01																			.02



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
JANUARY 1950

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
AFTON	MAX 46	52	34	8	17	31	30	43	42	44	34	46	43																				
	MIN 35	34	-3	-8	-4	6	14	23	27	12	9	30	15																				
ALBIA	MAX 49	54	46	9	19	31	31	44	46	46	35	42	48	35	48	33	44	15	31	43	44	49	38	47	25	8	34	46	39	7	15	35.5	
	MIN 40	43	6	-5	-2	9	17	21	32	16	10	30	20	6	5	2	15	3	8	13	27	32	27	25	4	-5	-2	27	3	0	-1	13.6	
ALGONA	MAX 40	39	18	0	8	19	15	40	35	32	32	35	23	20	36	17	35	5	10	35	36	35	28	32	15	-4	22	37	11	5	13	23.4	
	MIN 30	17	-10	-12	-18	-5	-5	8	18	7	-2	17	5	-6	-3	-9	1	-8	-4	0	16	25	18	15	-8	-17	-20	11	-12	-16	-12	0.7	
ALLISON	MAX 44	45	42	14	16	28	18	43	42	38	32	38	36	19	36	26	39		15	35	42	38	31	38	35	-2	20	41	31	6	16	30.1	
	MIN 35	36	0	0	-10	-4	0	10	23	10	0	27	19	-2	8	-6	12	-6	-5	1	16	24	21	24	-2	-18	-17	15	-7	-16	-10	5.8	
ALTA	MAX 40	38	12	-1	11	21	11	40	36	36	36	34	21	18	32	18	32	12	16	35	37	37	31	31	5	-6	19	38	5	5	13	23.0	
	MIN 27	10	-12	-14	-13	-3	0	9	18	3	1	16	1	-9	-5	-9	1	-8	-3	3	15	26	15	3	-10	-21	-18	4	-12	-12	-10	-0.2	
ALTON	MAX 46	40	20	13	12	27	22	41	40	41	40	34	20	11	10	22	30	15	19	41	40	39	38	35	12	7	20			23	16	26.7	
	MIN 27	12	-8	-12	-18	-5	-3	9	13	0	-2	17	6	-8	-8	-13	3	-5	-2	-2	14	15	20	7	-7	-21	-20		-12	-16	-18	-1.3	
AMES 35W	MAX 47	45	30	3	16	29	23	44	42	41	38	42	35	25	40	30	42	10	22	40	39	43	34	37	18	0	30	41	22	5	15	29.9	
	MIN 34	30	-4	-9	-6	2	9	15	22	10	5	28	12	0	2	-2	10	-4	-3	6	20	25	22	18	-2	-11	-9	19	-3	-5	-16	6.9	
ANAMOSA 1NW	MAX 45	49	49	9	17	25	25	42	45	41	31	37	42	39	33	23	38	35	22	36	39	49	39	48	42	20	27	38	37	7	15	33.7	
	MIN 35	37	6	-4	-6	8	11	12	26	13	3	21	34	2	5	-2	12	-2	-9	3	17	25	27	27	13	-8	-6	20	-1	-5	-8	9.9	
ATLANTIC 1E	MAX 46	49	22	8	19	30	32	43	43	41	38	48	35	32	43	34	39	18	30	40	43	52	35	36	11	2	30	46	16	10	17	31.9	
	MIN 32	21	-5	-9	-6	-2	10	24	28	9	8	28	12	-1	4	-2	9	2	8	12	23	22	21	10	-2	-14	-9	15	-3	-3	-18	7.5	
ATLANTIC AP CAA	MAX 45	48	11	5	17	28	30	43	41	39	36	48	31	38	43	33	38	15	28	40	43	49	32	36	5	-3	30	46	7	9	14	29.8	
	MIN 32	11	-7	-8	-6	-4	7	25	26	8	8	26	5	0	-1	-3	4	2	11	13	22	19	21	5	-10	-15	-9	5	-2	-6	-23	5.0	
AUDUBON 2S	MAX 46	48	15	3	14	23	24	42	40	39	37	49	34	27	40	32	38	10	26	36	38	47	38	34	7	-6	24	41	4	1	8	27.7	
	MIN 34	15	-9	-12	-9	1	9	17	24	6	6	27	15	-4	0	-4	9	-4	10	15	24	27	15	7	-6	-20	-16	4	-7	-8	-10	5.0	
BAWCROFT	MAX 38	38	17	1	12	21	14	39	35	33	34	33	31	15	34	19	31	5	10	34	34	34	30	32	24	-1	22	35	23	5	12	24.0	
	MIN 30	17	-11	-13	-16	-4	-8	2	13	5	-2	15	9	-8	-4	-12	4	-10	-8	0	12	22	16	23	-8	-20	-19	17	-9	-16	-12	0.2	
BEDFORD 1N	MAX 49	53	37	9	20	31	35	44	43	40	34	48	42	33	42	34	43	21	23	40	43	42	39	39	20	10	30	45	39	16	16	34.7	
	MIN 35	30	-1	-5	-3	5	16	23	28	11	13	29	18	3	7	6	20	3	12	13	25	27	23	20	4	-9	-2	22	2	0	-3	12.0	
BELLE PLAINE	MAX 46	48	47	8	15	28	23	44	45	43	34	39	43	25	42	23	41	16	28	40	37	47	35	44	32	7	25	42	34	6	15	32.3	
	MIN 36	38	5	-5	-3	8	11	15	27	13	5	28	22	3	6	0	16	-3	-3	7	22	25	26	28	7	-6	-6	20	-1	-3	-9	10.6	
BELLEVUE L AND D 12	MAX 39	48	50	23	17	28	27	45	45	49	31	38	40	43	45	24	37	36	24	32	33	38	42	47	51	33	30		43	11	17	35.5	
	MIN 25	33	22	0	-2	13	5	11	27	11	6	27	32	4	12	1	10	-1	-11	6	15	24	27	27	28	-2	-4	20	9	-4	-8	11.8	
BLOOMFIELD 2N	MAX		41	11	14	26	31	37	45	41	38	42	50	50	46	31		18	29	42		46	38	51	41	28	31	41	32	17	18	34.6	
	MIN		8	-3	0	8	20	26	30	14	11	28	24	14		3		4	6	13	25	34	33	34	8	-3	0	32	9	-1	0	14.0	
BOONE	MAX 45	45	24	2	15	29	22	48	41	39	37	42	34	26	41	31	40	8	20	40	39	42	34	40	14	0	30	44	15	5	17	29.3	
	MIN 34	24	-8	-10	-6	2	6	18	26	8	7	27	7	-3	1	-1	7	-5	-3	5	21	22	20	12	-4	-13	-10	14	-4	-6	-9	5.8	
BRITT	MAX 35	36	29	-9	8	16	16	35	35	35	31	28	18			10		6	3	29	28	29	29	31	31	-6	20	29	29	2	11	21.2	
	MIN 28	27	-12	-16	-20	-5	-11	5	20	2	-7	15	9	-10	-6	-12	3	-13	-10	-6	16	18	12	19	-10	-22	-22	13	-16		-12	-0.8	
BURLINGTON WB APT	MAX 52	58	57	8	17	25	29	41	48	54	36	40	52	38	52	27	40	13	29	39	39	41	38	68	36	14	34	49	34	14	22	36.9	
	MIN 41	43	7	0	0	15	14	19	32	17	13	31	18	10	7	5	12	6	7	15	26	35	32	32	10	2	3	25	5	5	11	16.1	
CARROLL	MAX 45	45	25	5	20	30	22	44	41	40	38	42	30	22	41	33	38	24	22	39	40	42	30	35	12	10	28	29	16	6	18	29.4	
	MIN 29	20	-8	-10	-11	-1	7	16	25	7	5	23	5	4	0	2	6	3	2	6	19	24	18	6	4	-18	-16	9	-6	-9	-15	4.7	
CASCADE	MAX 45	48	50	10	18	27	27	43	44	45	30	36	41	31	43	23	38	27	23	33	38	48	34	46	38		26	38	32	12	12	33.5	
	MIN 35	37	10	-2	-3	10	12	10	25	15	4	25	31	4	4	0	10	-9	-13	4	14	23	28	28	19	-5	-4	20	0	-4	-13	10.2	
CASTANA 4E	MAX 42	41	7	0	12	22	22	42	40	40	36	36	23	26	38	29	32	11	20	39	41	44	39	31	4	0	23	38	21	3	13	26.3	
	MIN 29	7	-9	-12	-13	-4	6	20	21	5	6	19	5	1	-4	-6	2	-4	5	8	18	23	18	4	-7	-19	-19	-4	-10	-12	-11	2.0	
CEDAR RAPIDS NO 1	MAX 45	50	50	7	15	25	23	44	45	44	33	38	42	26	43	23	41	21	24	38	39	48	36	45	37	12	26	41	35	7	16	32.9	
	MIN 37	39	7	-4	-3	10	12	13	29	14	5	28	26	4	4	0	14	-3	-4	6	21	27	30	29	12	-7	-5	23	-1	-4	-6	11.4	
CENTERVILLE	MAX 51	56	56	10	20	31	32	44	45	48	36	43	49	32	49	34	46	40	31	42	43	43	40	51	39	10	34	46	42	7	18	37.7	
	MIN 41	43	6	-5	-2	9	16	21	31	16	13	31	28	7	8	3	18	3	13	15	27	32	27	32	7	-5	0	25	6	1	-2	15.0	
CHARITON 3E	MAX 47	54	54	9	18	32	30	44	45	42	36	44	47	31	47	30	44	39	33	44	44	47	38	38	32	7	31	47	40	7	15	38.0	
	MIN 37	40	3	-6	-4	4	13	20	28	15	18	31	26	3	7	-2	16	0	6	10	23	32	26	29	4	-8	-4	20	2	0	-5	12.4	
CHARLES CITY	MAX 42	43	19	0	13	24	15	43	38	37	30	37	34	28	38	13	37	6	15	31	35	34	25	37	12	-3	20	38	5	7	15	24.8	
	MIN 36	19	-7	-7	-8	-2	1	15	24	4	2	29	2	-3	-2	-3	0	-7															

DAILY TEMPERATURES

IOWA
JANUARY 1950

Table 5-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
DECORAH 2S	MAX MIN	44 34	43 34	41 8	9 -4	13 -10	22 -5	16 4	42 2	40 24	49 9	31 -2	35 26	34 25	25 -2	38 -1	12 -5	36 5	12 -6	18 -6	29 0	35 11	36 20	28 22	39 21	30 6	7 -16	20 -31	37 17	32 -14	4 -27	17 -16	28.2 4.0	
DELAWARE 2W	MAX MIN	45 34	47 37	45 5	6 -5	15 -7	25 5	22 5	40 10	42 25	41 11	29 1	35 25	39 19	27 0	39 10	20 -3	37 7	8 -8	20 -10	30 -1	37 18	46 23	32 23	49 23	35 9	9 -9	21 -8	36 19	31 -5	5 -7	15 -9	29.9 7.7	
DEKINSON 1S	MAX MIN	42 30	44 13	18 -8	1 -11	4 -17	19 -4	24 7	42 18	39 25	39 6	37 6	39 21	26 4	25 -5	32 -1	29 -4	35 6	10 -2	22 7	37 9	39 19	43 21	32 18	33 5	-6 -6	24 -20	37 -20	5 -10	5 -14	3 -19	25.3 2.5		
DES MOINES WB APT	MAX MIN	43 35	52 20	20 -6	5 -6	16 -3	31 7	26 13	44 21	43 28	44 11	38 9	43 33	39 7	39 2	44 -1	32 -1	42 6	12 -1	27 9	43 13	43 24	46 26	33 23	40 11	11 -3	0 -9	30 -5	44 8	9 -1	7 -1	11 -11	30.9 8.4	
DES MOINES WB CITY	MAX MIN	45 35	51 20	20 -4	5 -6	16 -2	32 8	26 14	46 21	43 29	45 12	39 9	42 34	41 7	39 3	46 2	31 2	44 7	10 0	28 9	43 13	43 25	46 27	35 24	41 12	12 -3	3 -8	31 -4	45 9	9 -1	7 -1	12 -9	31.5 9.2	
DUBUQUE L AND D 11	MAX MIN	44 32	47 33	49 21	22 -2	11 0	24 10	23 11	42 24	44 29	45 13	29 9	35 26	35 32	34 3	40 9	18 -2	34 15	34 -4	20 -8	30 5	35 15	35 23	35 25	44 24	43 24	29 -7	23 -6	39 20	37 3	8 -7	12 -12	32.2 11.5	
DUBUQUE WB CITY	MAX MIN	46 37	51 40	46 8	8 0	16 -2	27 13	24 14	44 16	46 32	48 11	31 7	37 31	42 10	32 5	44 3	23 2	38 7	7 -5	22 -8	33 8	38 18	41 29	39 27	50 28	33 9	9 -4	28 -4	41 22	27 -3	9 -4	17 -1	32.0 11.2	
ELKADER	MAX MIN	47 32	44 35	44 8	12 -5	12 -9	27 1	22 5	44 4	43 21	43 10	-1 -1	32 25	36 -1	38 0	30 -6	40 4	17 -6	5 -8	21 -12	30 -1	34 8	42 7	41 30	27 27	32 15	-2 -2	20 20	39 14	14 -1	15 -20	22.2 4.4		
EMMETSBURG	MAX MIN	49 29	36 16	2 -11	0 -13	10 -20	21 -11	12 -4	41 1	34 11	30 5	32 -4	32 18	19 11	15 -9	32 -2	14 -14	32 5	8 -8	7 -9	36 0	35 12	30 15	27 15	32 15	15 -9	-2 -20	20 -23	39 13	14 -12	1 -18	15 -10	22.2 -0.7	
ESTHERVILLE	MAX MIN	36 28	34 6	7 -13	-1 -14	9 -17	20 -10	16 -8	38 2	33 10	28 3	32 -5	30 12	16 0	19 -10	32 -6	10 -14	28 -2	3 -10	9 -5	35 -1	34 9	30 23	23 31	31 7	-5 -5	19 -19	35 2	4 -14	1 -18	13 -14	20.2 -3.7		
FAIRFIELD	MAX MIN	47 41	49 40	57 25	28 -2	7 -2	15 0	26 16	38 20	43 22	50 17	26 11	35 10	40 35	49 9	45 8	47 2	25 4	43 5	13 5	29 12	41 16	40 28	41 33	37 30	60 22	30 -2	8 -2	31 2	47 10	11 2	11 4	34.5 13.6	
FAYETTE	MAX MIN	44 34	46 37	43 6	8 -5	15 -10	24 -1	20 6	42 4	41 25	37 8	30 0	36 22	37 32	38 0	39 -6	16 6	38 -6	29 -6	19 -12	30 1	35 10	42 24	36 22	42 10	33 -14	10 -20	21 16	40 -6	34 -14	6 -16	18 -16	30.5 5.8	
FOREST CITY	MAX MIN	38 32	39 12	12 -12	-3 -15	8 -19	22 -12	13 -8	38 7	37 15	36 4	34 -5	33 17	20 8	36 -8	14 -5	33 -11	3 0	10 -10	33 -8	34 -1	26 11	32 16	26 14	32 -5	14 -20	-5 -23	21 6	35 -13	10 -19	7 -13	12 -13	22.8 -1.4	
FORT DODGE	MAX MIN	44 31	43 21	27 -7	0 -12	13 -12	28 -5	20 1	43 11	39 25	39 8	35 3	39 21	32 12	19 -4	38 0	29 -5	37 8	6 -6	15 -4	37 3	36 17	26 19	37 17	26 19	33 17	0 -5	-4 -16	28 -16	13 -8	13 -12	5 -16	14 -16	25.9 3.5
GLENWOOD 2E	MAX MIN	45 31	50 17	17 -2	7 -7	19 -5	31 2	34 9	47 16	46 28	41 7	40 14	44 29	30 15	34 0	41 4	40 0	39 10	15 2	28 7	42 9	46 26	45 22	38 13	35 3	13 30	3 -6	30 20	52 2	20 0	9 -17	17 -17	32.2 8.3	
GREENFIELD	MAX MIN	44 33	51 36	36 -5	12 -9	11 -5	29 4	27 13	42 19	34 18	38 9	35 7	47 27	39 10	34 -2	31 9	41 -4	10 9	28 0	42 11	43 21	49 24	42 19	37 12	24 -1	15 -12	32 -5	44 6	38 -2	9 -4	12 -5	32.5 7.7		
GWINNELL	MAX MIN	46 37	49 38	48 0	8 -6	17 -5	28 5	28 11	44 16	45 18	43 27	36 12	38 7	41 29	26 20	45 2	26 -2	43 17	20 -2	18 0	41 8	39 23	48 24	37 25	41 26	28 4	8 -8	28 -6	43 21	37 -2	7 -4	13 -7	32.7 10.1	
GRUNDY CENTER 4NE	MAX MIN	45 33	45 34	37 -4	6 -8	17 -8	27 1	21 4	43 10	43 23	39 10	32 10	40 26	41 14	19 -1	40 0	27 -5	44 14	19 -5	20 -9	37 1	37 14	44 23	34 21	39 25	28 -1	24 -13	24 16	39 6	32 -9	10 -13	16 -13	30.5 5.9	
GUTHRIE CENTER	MAX MIN	47 31	46 25	25 -5	4 -9	16 -7	30 3	24 11	44 18	42 27	39 9	38 7	47 28	31 9	27 -1	42 0	34 -1	39 9	10 -1	26 6	40 24	44 26	35 18	36 12	12 -3	-1 -14	30 -10	44 11	11 -3	6 -4	15 -11	30.0 6.9		
GUTTENBERG L D 10	MAX MIN	46 31	47 33	47 33	38 -4	17 -7	27 7	30 8	44 10	44 8	49 19	31 26	36 37	42 30	42 0	4 -3	9 -6	16 -10	36 3	36 11	38 20	33 23	39 21	46 16	44 -11	21 -10	26 19	40 -1	36 -10	7 -17	19 -17	34.6 8.8		
HAMPTON	MAX MIN	40 34	41 36	40 1	10 -10	12 -10	19 -4	19 0	38 10	36 27	36 9	30 2	31 27	36 16	17 -3	30 -3	14 -4	35 8	8 -6	16 -6	36 -3	36 17	38 26	34 20	35 24	28 -1	-1 -15	24 -18	39 18	33 -7	4 -13	15 -14	26.5 5.3	
HARLAN	MAX MIN	44 31	45 18	18 -5	2 -8	14 -7	20 -2	27 10	44 23	40 23	38 9	34 10	42 28	31 11	29 -1	40 2	32 -1	36 8	13 1	26 11	39 14	40 22	47 21	38 11	34 11	11 -2	26 -16	40 -17	15 -4	6 -5	12 -20	28.4 6.5		
HAWARDEN	MAX MIN	43 28	36 10	14 -5	3 -11	14 -17	42 5	19 -2	42 12	35 7	30 3	36 1	28 10	20 5	24 -7	24 -2	16 -13	27 5	10 -5	13 0	38 8	37 14	35 20	23 13	30 5	5 -7	6 -22	20 -14	36 4	14 -12	9 -12	12 -20	23.9 0.0	
IDA GROVE 4S	MAX MIN	42 29	41 14	15 -10	0 -15	11 -14	23 -4	21 2	41 14	39 21	39 5	36 5	37 23	24 7	20 -7	38 -3	29 -7	34 4	11 -4	22 -2	37 5	40 16	39 17	36 5	32 2	6 -21	6 -19	13 7	36 -10	8 -14	0 -11	15 -11	25.5 1.8	
INDEPENDENCE 2W	MAX MIN	46 33	46 34	45 2	7 -9	16 -9	26 5	22 5	43 10	43 21	40 8	31 0	38 22	39 27	41 -2	41 -1	28 -5	19 11	33 -7	39 -9	46 0	40 14	44 22	44 23	37 6	10 -14	22 -12	39 12	35 -8	6 -11	15 -11	32.0 5.8		
INDIANOLA	MAX MIN	50 35	53 40	52 0	9 -7	16 -5	32 6	26 13	46 19	44 30	39 13	44 7	43 30	28 21	45 1	31 -1	44 18	20 0	32 5	43 9	44 25	48 27	43 22	41 22	22 1	7 -9	32 -5	45 22	38 0	5 -2	13 -8	15 -8	34.8 10.6	
INWOOD 2W	MAX MIN	42 25	33 -3	5 -10	-1 -13	12 -17	21 -6	15 -7	37 9	31 9	26 1	32 3	27 12	12 -1	14 -10	24 -8	10 -16	14 -2	2 -7	11 -4	36 0	33 12	28 10	22 -2	30 -10	-2 -26	3 -17	35 2	3 -15	2 -15	13 -15	18.8 -3.3		
IOWA CITY AP CAA	MAX MIN	48 33	52 37	41 4	7 -1	18 -2	27 12	28 15	44 17	47 25	46 13	39 8	46 31	35 12	46 7	26 4	43 2	10 8	28 1	41 11	28 4	41 20	45 26	38 32	50 29	32 8	5 -3	42 -2	22 -3	11 -11	15 -11	33.4 11.4		
IOWA FALLS 1N	MAX MIN	43 33	42 35	38 -5	0 -12	16 -10	27 -3	24 0	44 13	40 22	35 7	30 0	37 25	35 11	21 -4	40 0	38 -5	7 -8	18 -7	38 -6	36 0	40 16	28 23	36 20	16 -2	-1 -17	26 -21	41 17	20 -7	15 -15	16 -8	28.2 4.0		
JEFFERSON	MAX MIN	46 31	45 25	25 -5	4 -8	15 -7	30 0	22 8	44 19	42 24	40 9	39 4	32 26	23 10	-1 3	-1 -1	9 -2	1 7	24 21	39 24	40 20	39 13	42 20	35 13	14 -2	-1 -15	29 -14	42 15	16 -4	7 -5	14 -15	29.2 6.2		
KEOKUK L D 19	MAX MIN	49 43	52 39	58 30	32 4	11 2	20 3	27 12	30 20	42 24	54 29	31 17	37 12	43 34	54 14	43 14	51 9	29 9	40 9	30 9	29 12	39 19	41 30	41 34	38 32	68 27	37 5	15 3	35 8	49 12	17 6	16 6	37.4 17.0	
KEOKUK WBO	MAX MIN	52 44	60 45	54 7	7 -2	15 0	26 14	30 19	46 21	55 38	56 21	35 17	45 33	56 19	37 12	53 8	31 8	45 14	14 9	29 9	40 18	30 31	29 41	39 41	41 38	68 46	37 15	35 3	49 8	17 12	16 6	37.4 17		

DAILY TEMPERATURES

IOWA
JANUARY 1950

Table 5-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
LE MARS	MAX MIN	45 28	38 6	6 -8	7 -12	13 -14	30 -5	20 1	40 12	40 18	32 5	38 5	35 15	15 5	20 -7	20 -6	30 -10	30 2	10 -4	15 4	39 10	41 16	40 22	28 15	30 1	1 -7	-5 -21	20 -14	38 3	3 -12	16 -12	16 -16	24.2 0.6	
LOGAN	MAX MIN	49 29	45 8	10 -8	3 -11	13 -13	24 -2	29 8	44 24	41 24	41 7	38 8	40 24	28 8	30 -4	30 -1	35 -3	37 4	11 -1	24 6	39 13	41 21	44 21	39 19	34 7	9 -7	-4 -20	25 -19	40 7	8 -7	7 -9	13 -16	28.0 3.8	
MAPLETON 5NW	MAX MIN	42 29	40 6	8 -8	2 -13	12 -19	22 -7	22 4	42 21	39 19	39 7	37 5	30 7	19 3	22 -6	39 -3	29 -8	33 0	13 -3	19 1	39 9	41 16	42 20	34 16	32 4	5 -9	-7 -21	23 -21	37 6	7 -11	4 -16	13 -20	25.1 0.3	
MAQUOKETA 5E	MAX MIN	45 36	50 36	51 14	19 -1	18 -2	28 12	26 12	43 12	45 26	42 16	31 6	38 25	42 35	44 5	43 7	22 1	38 12	34 0	23 -4	33 6	37 19	46 26	34 28	51 29	40 21	32 -2	29 -3	42 20	40 4	8 -3	16 -1	35.2 12.6	
MARSHALLTOWN	MAX MIN	47 35	47 36	46 2	3 -8	14 -6	29 3	27 9	45 14	45 24	40 11	34 4	39 28	40 21	31 0	40 4	27 -2	42 16	38 -4	22 -9	40 4	37 18	46 25	44 23	40 27	38 5	7 -10	28 -8	43 16	41 -1	5 -5	13 -17	33.5 8.2	
MASON CITY 3N	MAX MIN	40 33	41 22	22 -9	-2 -12	12 -17	24 -11	14 -4	41 7	36 21	33 6	32 -1	35 21	33 20	22 -5	36 -3	26 -6	35 0	5 -9	12 -2	32 2	35 12	32 23	27 18	33 22	22 0	6 -17	21 -21	37 8	8 -11	4 -11	15 -11	24.8 2.1	
MASON CITY AP CAA	MAX MIN	39 33	41 10	11 -13	-5 -15	11 -18	23 -10	14 -6	40 14	35 20	37 0	32 -2	35 20	32 -1	28 -6	36 -6	12 -7	34 -3	4 -10	8 -6	33 3	34 13	31 19	25 18	33 6	8 -13	-8 -20	19 -20	37 2	4 -15	9 -16	14 -10	22.8 -1.3	
MILFORD 4NW	MAX MIN	35 26	32 7	8 -14	-3 -16	9 -18	19 -8	13 -10	38 2	32 8	30 0	31 -4	30 10	14 -1	15 -12	32 -7	10 -16	19 -3	4 -9	7 -8	34 3	33 10	29 12	21 5	30 -13	6 -25	-5 -23	18 -23	33 3	3 -15	4 -17	13 -15	19.7 -4.4	
MILLERTON	MAX MIN	49 38	55 42	53 4	10 -6	21 -3	33 8	33 16	43 21	45 29	43 15	37 15	44 30	47 22	42 4	33 7	45 16	38 2	32 5	43 12	43 26	44 30	46 20	39 29	45 5	32 -7	10 -2	31 23	47 3	41 0	6 -4	17 -4	36.8 12.9	
MISSOURI VALLEY	MAX MIN	44 30	46 9	9 -5	8 -9	18 -10	31 6	34 9	48 26	45 27	38 8	41 13	40 23	26 8	31 -4	44 0	41 -1	38 5	16 0	28 9	42 12	43 23	48 28	38 21	34 5	9 5	6 -19	32 -12	46 6	7 -6	12 -7	20 -14	31.1 6.0	
MONMOUTH 4SW	MAX MIN	43 32	48 32	54 8	29 -8	18 -7	26 8	26 12	35 10	40 20	35 10	31 1	38 17	40 30	36 10	38 10	23 -4	38 8	33 10	28 -8	34 12	35 13	48 14	35 14	48 22	46 25	30 -8	28 -7					35.7 10.7	
MOUNT AYR 2N	MAX MIN	48 37	54 36	37 0	10 -6	18 -2	33 6	33 17	44 25	44 28	45 13	35 12	47 30	43 20	37 4	42 5	33 0	45 15	16 3	30 7	44 14	44 26	44 29	38 24	41 25	34 3	17 -8	32 -2	46 24	38 3	7 1	20 -8	35.5 12.3	
MOUNT PLEASANT	MAX MIN	51 42	56 39	57 10	10 -1	17 0	26 12	28 15	44 19	47 30	52 18	35 11	39 31	50 37	37 9	52 10	29 3	41 19	36 8	30 5	40 15	38 26	40 34	37 33	65 32	44 15	15 -1	32 1	48 24	41 7	11 3	20 10	37.7 16.6	
MUSCATINE NO 1	MAX MIN	47 40	54 39	55 12	12 0	17 0	27 13	29 15	45 17	47 32	48 18	34 10	38 30	48 32	42 8	47 8	27 4	41 19	37 5	30 3	38 12	36 26	40 33	38 31	59 19	43 0	19 0	33 0	47 25	41 9	12 5	23 10	36.9 16.2	
NEW HAMPTON	MAX MIN	42 28	43 27	35 -8	1 -13	16 -16	24 -8	18 -4	41 5	37 14	38 1	31 -7	37 18	34 25	34 -10	37 -9	13 -12	37 -2	5 -14	15 -14	30 -5	34 7	36 17	30 15	37 15	26 -7	-22 -27	10 -20	37 -24	31 -17	5 -17	15 -23	27.1 -1.8	
NEWTON	MAX MIN	51 36	50 41	45 -1	5 -7	17 -4	28 6	26 12	45 19	44 28	42 12	36 7	39 30	41 17	27 30	35 17	28 3	45 15	15 3	28 8	43 12	48 27	41 24	35 23	48 19	37 1	26 -7	23 -6	21 -1	-1 -3	-8 -8	10.4		
NORTHWOOD	MAX MIN	38 32	40 32	33 -6	-4 -10	9 -16	20 -6	14 -6	40 18	36 4	35 -4	33 19	33 10	14 8	34 -4	11 -11	33 -1	4 -10	11 -7	29 0	33 12	34 20	27 17	32 20	30 -4	-4 -19	19 -21	37 12	30 -12	7 -18	14 -9	24.3 1.4		
NORWICH 2E SCS FARM	MAX MIN	46 33	52 20	21 -2	9 -7	21 3	33 15	33 25	46 28	46 12	43 13	38 30	47 17	36 3	36 3	45 1	37 15	40 3	16 8	29 12	42 28	43 27	41 23	38 16	37 3	17 -10	6 -7	31 21	50 2	45 2	7 -9	18 -9	33.9 10.4	
OAKLAND 2E	MAX MIN	44 30	48 15	15 -5	6 -9	17 -6	29 -2	31 8	45 24	43 26	41 9	39 9	45 28	32 12	32 -1	42 2	35 -2	37 7	15 1	27 8	40 14	44 23	47 20	35 21	35 9	-1 -2	29 -16	47 -12	18 -3	-3 -21	18 -6.5	30.7		
OELWEIN	MAX MIN	45 36	45 38	45 4	5 2	15 5	24 4	22 2	42 11	44 26	40 12	38 3	38 22	22 0	40 2	18 -2	39 12	12 -6	18 -8	32 2	36 12	40 25	36 24	40 23	35 5	42 -11	35 -11	7 20	39 36	6 -7	18 -8	29.9 8.0		
ONAWA	MAX MIN	43 29	41 7	9 -8	3 -10	14 -16	26 -1	28 3	44 26	41 19	40 6	39 7	36 19	22 6	36 -5	40 -2	32 -5	31 2	13 -2	21 6	41 9	44 18	48 17	39 5	32 -10	7 -24	0 -10	24 -10	39 2	-11 -15	-20 -20	27.6 1.9		
OSAGE	MAX MIN	39 31	41 31	39 -4	-4 -12	11 -19	22 -7	16 -5	41 0	45 17	31 3	32 -5	34 21	34 20	29 -8	36 -6	10 -10	35 -1	12 -6	29 1	33 12	44 21	44 19	46 21	37 0	41 -17	27 -23	7 15	31 -10	46 -17	39 -9	5 -9	14 -9	34.7 1.4
OSCEOLA	MAX MIN	47 35	53 40	42 -1	10 -6	19 -3	32 8	31 15	44 22	44 13	44 17	37 14	45 30	44 18	42 4	44 5	33 1	44 15	17 6	33 13	44 24	44 27	46 23	46 25	35 31	45 5	31 -4	6 -1	35 24	47 4	39 1	8 -4	14 -4	35.6 13.6
OSKALOOSA	MAX MIN	49 39	53 43	48 4	9 -3	18 -1	32 9	30 15	45 20	47 21	45 16	41 11	35 31	40 23	49 6	38 6	50 1	30 18	43 3	13 8	30 14	41 25	41 29	45 28	37 31	47 5	27 -4	7 0	31 19	44 1	19 -3	9 -3	12 -3	33.7 12.7
OTTUMWA AP CAA	MAX MIN	49 39	55 30	31 0	8 -3	18 0	29 11	28 16	43 22	48 31	49 15	35 11	40 31	49 12	38 7	50 5	30 3	43 9	13 5	30 9	41 14	41 27	45 33	37 29	47 20	27 4	7 -3	31 0	44 19	1 1	-3 -3	12 -3	31.4 6.7	
PERRY 2SE	MAX MIN	47 31	45 32	32 -5	8 -8	20 -6	30 -1	25 9	45 17	42 32	39 9	39 6	45 20	35 14	23 -1	43 2	34 -3	42 13	26 3	42 8	42 19	46 21	37 20	34 14	14 -1	-13 -10	10 -17	44 36	33 9	4 4	-4 -20	15 -4	31.4 6.7	
POCAHONTAS 2SE	MAX MIN	42 29	42 17	17 -11	3 -14	10 -18	21 -15	18 -3	40 17	37 27	30 4	35 0	37 15	23 -1	22 -8	33 -3	36 -10	34 5	19 -7	35 2	36 15	35 15	37 22	33 13	33 -16	4 -20	-2 -22	6 -14	-18 -18	-13 -13	-0.7			
PRIMGHAR	MAX MIN	42 27	40 15	16 -9	-4 -14	8 -13	19 -3	15 -5	38 7	39 13	32 2	34 0	31 14	15 2	16 -10	31 -7	27 -11	12 -1	6 -7	9 -2	35 14	36 20	39 12	37 5	30 -9	6 -23	-8 -20	17 5	33 -14	6 -12	3 -11	11 -11	21.6 -1.0	
RED OAK	MAX MIN	46 33	51 15	16 -4	8 -8	21 -4	31 0	34 6	45 26	45 29	42 12	39 11	46 30	35 2	38 5	45 0	47 7	30 3	49 6	32 10	45 27	44 36	46 24	35 22	45 11	31 -1	6 -11	35 -5	47 17	39 0	8 -21	14 -21	35.6 8.1	
ROCK RAPIDS	MAX MIN	40 28	32 5	5 -10	-1 -14	12 -18	19 -10	12 -4	37 8	30 7	23 2	33 -3	25 11	12 0	17 -9	27 -9	10 -16	12 -2	6 -7	9 -12	24 0	32 13	30 16	20 9	30 0	0 -10	-6 -24	18 -19	31 3	-14 -17	-21 -21	-3.8		
ROCKWELL CITY	MAX MIN	43 29	42 21	21 -8	2 -12	14 -14	28 -3	18 2	42 12	38 20	39 7	35 4	39 20	29 5	21 -5	34 0	27 -6	36 5	10 -5	22 -4	36 3	36 16	39 25	32 18	25 9	10 -7	1 -18	1 -17	26 40	9 8	-5 -12	-13 -13	26.3 2.4	
SAC CITY	MAX MIN	43 29	40 19	9 -10	0 -11	13 -14	23 -6	18 2	41 16	38 22	38 5	37 4	38 18	22 5	23 -6	34 -1	29 -6	38 4	9 -4	18 -4	37 4	38 16	39 26	29 18	32 4	-4 -8	-4 -19	23 -17	46 16	39 -9	15 -15	11		

DAILY TEMPERATURES

IOWA
JANUARY 1950

Table 5-Continued

Station		Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
SIOUX CITY WB APT	MAX	44	38	3	2	14	27	28	43	38	19	39	32	15	37	36	23	28	13	16	42	44	45	28	32	-2	0	25	37	5	4	10	24.7
	MIN	26	3	-10	-14	-14	-5	4	24	13	6	6	15	-3	-5	-6	-8	-1	-3	5	12	17	19	16	-2	-12	-23	-18	2	-11	-12	-21	0.0
SIOUX RAPIDS	MAX	35	33	14	-1	-8	24	20	44	39	25	39	27	18	28	26	8	15	2	7	21	33	35	26	26	10	-1	21	38	2	4	0	19.7
	MIN	28	12	-14	-15	-25	-13	-3	-14	13	-2	-5	12	-4	-4	-17	-15	-4	-8	-9	5	14	20	14	0	-10	-24	-27	2	-17	-22	-21	-4.9
SPENCER 1N	MAX	38	34	5	-4	10	20	20	39	35	19	33	32	18	29	33	10	24	6	7	35	36	28	26	31	2		22	37	2	1	11	20.4
	MIN	27	4	-15	-20	-22	-13	-8	19	7	-5	-5	10	-6	-10	-9	-16	-5	-9	-10	2	11	18	14	0	-13			2	-19	-21	-18	-0.5
STATE CENTER	MAX	45	47	40	6	16	31	23	42	43	39	34	39	39	23	42	27	42	17	23	39							41	26	8	16	31.2	
	MIN	37	40	0	-6	-1	11	9	19	27	12	9	30	19	1	3	2	17	-2	1	10							23	0	0	0	10.9	
STORM LAKE 2E	MAX	40	39	24	0	9	19	15	38	36	33	35	31	19	15	32	19	33	5	14	34	37	36	32	31	9	-2	19	35	11	2	11	22.9
	MIN	28	25	-9	-13	-16	-5	-1	8	15	4	0	18	6	-8	-4	-9	3	-6	-5	1	14	25	15	9	-8	-19	-20	8	-12	-14	-11	0.6
TINGLEY	MAX	49	53	48	5	20	32	33	43	44	35	34	47	43	34	43	33	44	12	32	43	44	43	37	40	14	6	33	44	32	6	15	33.6
	MIN	31	35	-5	-12	-8	0	10	20	23	8	5	27	10	-2	0	-5	11	-3	2	10	20	20	20	14	-1	-13	-8	18	-2	-5	-14	6.6
TIPTON	MAX	47	52	49	10	21	28	27	40	46	47	33	38	43	38	39	28	41	36	28	39	40	44	36	56	42	30	34	46	38	10	16	36.2
	MIN	38	42	4	0	-4	12	12	16	28	14	6	28	32	6	4	0	13	-1	-4	7	23	27	30	28	30	-2	4	24	4	4	-4	13.6
TOLEDO	MAX	47	47	45	7	19	31	23	45	45	42	34	38	41	23	42	27	42	18	26	41	36	49	37	42	31	6	29	43	35	6	14	32.6
	MIN	35	38	2	-6	-4	6	10	15	28	12	5	28	20	2	3	-1	16	-3	-5	5	22	26	24	28	6	-8	-7	21	-3	-4	-9	9.7
TRIPOLI	MAX	45	46	46	5	16	26	23	44	40	39	32	38	38	33	40	17	41	34	19	33	36	40	39	40	38	9	22	40	36	7	15	31.5
	MIN	35	37	3	-6	-7	2	5	4	23	10	1	26	32	-1	1	-4	10	-7	-7	1	15	24	23	23	6	-16	-20	16	-7	-14	-12	6.3
VINTON	MAX	47	48	47	8	13	28	22	44	44	40	30	40	39	31	41	24	40	36	21	38	40	48	36	43	38	10	25	40	37	5	10	32.7
	MIN	36	37	6	-3	-3	7	10	19	24	11	5	27	30	3	4	-2	11	-2	-7	5	12	20	27	28	10	-8	-7	19	-1	-5	-15	9.6
WASHINGTON	MAX	47	54	55	9	16	28	27	45	47	49	35	39	48	29	47	27	43	35	31	41	41	42	37	57	43	15	30	50	37	9	19	36.5
	MIN	37	36	7	-2	-1	12	15	17	29	16	9	29	25	7	5	2	15	2	3	12	26	32	30	31	14	-3	-1	22	3	0	7	14.1
WATERLOO	MAX	46	46	43	4	15	26	20	44	43	38	30	39	37	20	40	22	40	14	19	37	37	42	34	40	33	4	23	40	35	6	15	30.1
	MIN	35	35	0	-7	-7	2	6	12	25	10	2	25	20	-1	3	-4	13	-6	-8	1	14	22	22	24	4	-13	-13	17	-7	-10	-14	6.5
WAUKEE	MAX	45	52	40	5	16	32	25	46	43	45	39	42	40	27	45	32	44	20	28	43	43	46	41	41	16	2	32	45	25	5	12	32.8
	MIN	35	40	0	-9	-5	6	13	20	29	10	8	32	12	2	0	20	-2	7	11	25	27	24	16	0	-11	-7	24	-3	-5	-11	10.0	
WAUKON	MAX	43	43	43	10	15	23	15	41	39	41	26	34	34	33	37	13	36	19	15	27	32	36	29	39	34	8	20	37	33	2	16	28.2
	MIN	34	36	7	-4	-12	1	6	6	23	8	-2	23	31	-4	-3	-6	4	-8	-7	0	16	23	21	21	7	-17	-20	16	-15	-18	-5	5.2
WEBSTER CITY	MAX	44	44	20	-1	13	26	20	44	39	39	35	39	34	20	39	29	38	7	16	38	35	40	33	35	16	-5	27	41	18	6	14	27.2
	MIN	33	20	-8	-11	-11	-6	2	13	23	8	2	24	9	-3	0	-4	6	-6	-7	2	16	24	20	15	-5	-16	-20	17	-6	-12	-20	3.2
WILLIAMSBURG	MAX	46	50	48	5	16	30	26	45	45	45	34	40	45	33	44	25	43	20	28	41	36	47	36	45	34	10	31	42	36	9	13	33.8
	MIN	37	37	4	-5	-3	10	12	16	26	13	10	28	23	4	3	0	15	-1	0	9	23	24	28	30	8	-6	-5	20	-1	-3	-7	11.3
WINTERSSET	MAX	46	52	54	11	20	35	32	45	44	43	39	47	42	29	44	34	44	23	34	44	44	52	45	40	25	9	32	44	42	5	18	36.1
	MIN	34	38	-1	-7	-5	6	14	20	29	12	8	30	20	0	5	-2	18	-1	6	12	25	25	22	23	0	-10	-7	9	0	-2	-11	10.0
WOODWARD 7N	MAX	46	45	43	3	16	29	26	44	42	40	37	42	40	21	42	31	42	20	21	40	40	44	40	37	22	-1	30					32.7
	MIN	33	39	-2	-10	-7	0	9	19	27	9	5	30	20	-1	1	-3	19	-4	-1	5	21	14	21	20	-2	-14	-11					8.8

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
1 Inch	7 AM	33	36	27	10	6	8	14	20	23	20	11	30	32	8	31	5	22	15	17	16	21	25	26	30	18	9	6	20	11	7	14	18.4
	12 M	37	39	24	12	12	17	16	29	30	19	22	31	32	19	20	17	30	18	21	23	30	32	28	32	17	10	12	25	11	11	17	22.4
	7 PM	35	36	17	10	15	18	18	32	32	20	27	32	25	21	10	20	20	16	19	27	32	32	29	29	16	9	18	29	9	13	18	22.1
2 1/4 Inches	7 AM	33	35	29	12	8	10	15	21	23	22	12	29	32	11	31	7	22	16	18	18	21	25	27	30	20	11	8	20	13	8	15	19.4
	12 M	36	38	26	13	13	18	17	28	30	21	22	31	32	19	22	16	29	19	21	23	29	31	28	31	18	11	12	24	13	11	18	22.6
	7 PM	34	35	19	12	16	20	19	31	32	22	27	32	32	22	13	20	22	17	20	28	31	32	29	29	18	11	18	28	10	14	18	22.9
4 Inches	7 AM	32	33	31	21	14	15	18	21	26	25	17	28	32	18	30	12	22	19	20	20	23	27	28	30	23	16	12	20	18	12	16	21.9
	12 M	32	34	31	20	17	19	20	26	28	24	22	30	32	22	25	18	27	21	22	22	28	30	29	31	22	16	14	23	17	13	18	23.6
	7 PM	32	34	28	18	20	21	21	30	30	25	27	30	32	23	19	22	26	20	22	27	30	30	29	30	21	15	18	27	16	15	19	24.4
8 Inches	7 AM	32	32	32	30	22	22	22	23	28	28	23	28	30	26	28	20	24	23	22	22	25	28	30	30	28	22	18	21	22	17	18	25.0
	12 M	32	32	32	28	22	22	22	25	28	28	23	28	30	25	28	20	25	23	22	22	26	28	29	30	26	22	18	23	21	17	20	25.1
	7 PM	32	32	31	26	23	24	23	28	29	28	26	29	30	26	26	24	27	23	23	25	28	29	29	30	25	20	20	25	20	18	20	25.8
20 Inches	7 AM	34	35	34	34																												

SNOWFALL AND SNOW ON GROUND

IOWA
JANUARY 1950

Table 7

Station	Snowfall SN ON GND	Day of month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Algona	2.0 2			0.4 2		2	2	2	1	1	1	1	1	T	1	1	1	1	1.2 2		2	2	2	2	2	T	6.0 8	-	-	7	7	0.2 7	0.4 7	
Ames 3 SW	0.3 T		T	T	T	T	T							T		T			1.0 1	T	T					1.8 2	2	2	2	1	1	2.0 3	0.5 3	
Atlantic AP CAA	0.5 T	T	T	T	T	T	T				T			T		T			T	T	T			T	T	1.2 1	1	1	1	T	T	2.2 1	T 2	
Burlington WB Airport	0.3 T		T	T	T	T	T								T		T										T	T			T	1.3 1	T 1	
Castana 4 E	2.4 2	T	0.4 3		3	3	2	2	T	T	T	T	T	T	T	T	T	T	T	T	T				T	7.2 7	7	7	4	4	2.4 6	6		
Cedar Rapids No. 1	0.3 T		T	T	T	T	T				T	T			T	T			0.2 T	0.2 T	T	T			T	0.4 T	1.4 2	2	2	2	1	1	4.0 5	
Cherokee	1.5 1		1	1	1	1	1	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	5.0 5	5	5	4	4	1.0 5	T 5		
Clinton No. 1																			0.3 T	T												2.1 2	0.9 3	
Council Bluffs 5 NE	0.5 T													0.2 T							0.6						3.5 4					2.5 4	0.5 4	
Davenport WB City	T T	T	T	T	T	T					T			T		T			T	T						T	T			1.8 1	T 1			
Decorah 2 S	T T	T	T	T										T													5.0						1.0	
Denison 1 S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	3	T	3	
Des Moines WB Airport	0.7 T	T	T	T	T	T	T				T			T		T			T	T	T			T	0.1	1.6 2	2	2	2	1	1	3.1 3	T 5	
Dubuque WB City	T T	T	T								T			T	T	T			T	1.6 2	2	1	1	T	T	1.0 1	T	1	1	T	T	2.1 T	0.2 2	
Fort Dodge	1.0 1	T	1	1	1	1	1	1	T	T	T	T							1.0 1	1	1	1	1	T	T	T	1.0 1	2.0 3	3	3	3	2	2	3.0 5
Grinnell			T	T	T	T																			T	T	2.0 2	2	2	2	2	2	6.0 8	
Guthrie Center	0.5 T		T	T	T									T												1.0 1	1	1			2.0 2	0.4 2		
Iowa City AP CAA	T	T	T								T			T	T				T	T					T	0.5 T	T	T	T	T	3.8 2	0.8 5		
Iowa Falls 1 N	0.5 1	T	1	1	1	1	T	T											0.5 1	1						1.0 1	2.5 3	3.5 6	6	5	5	5	1.0 5	6
Keokuk WB City			T	T	T																						T						0.7 1	
Lamoni AP CAA	0.3 T		T	T	T	T	T				T					T										T	0.6 1	1	1	1	T	T	5.4 5	0.3 5
Maquoketa 5 E	T T	T	T	T							T								T	T	T					T	T					1.0 1	3.0 4	
Marshalltown			T	T															1.0 1								3.0 3	3	3	3	3	3	4.0 7	
Mason City AP CAA	0.9 1	T	1	1	1	1	1	T	T					0.7 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.3 3	T 3
Norwich 2 E SCS Farm	2.0 2		2	2	2	1	T							T													1.6 2	2	1			3.0 3	3	
Oelwein	T T		T	T																							0.2 T						3.0 3	
Osceola	T T																										1.5 2	2	2	1	1	2.8 4	2.2 5	
Oskaloosa	1.0 1		1	1	1	1																					1.0 1	3.0 4	-	3	1	1	5.0 6	
Ottumwa AP CAA	0.6 1		1	1	1	1	1	T																		T	1.4 1	T	1	1	1	1	1.9 2	0.1 3
Rock Rapids	3.2 3	T	3	3	3	3	3	2	2	2	2	2	2	0.3 2	2	2	2	2	2	2	2	2	2	2	2	2	1.0 3	3	3	3	3	3	4.0 7	7
Saratoga 2 E	1.2 1													2.0 2		T											T	5.5 6						
Shenandoah	0.5 1		1	T	T									T													2.0 2		0.2				3.5 4	
Sioux City WB Airport	1.7 2	T	2	2	2	2	2	2	T	T	0.1 T	T	T	0.1 T	T	T	T	T	T	0.7 1	1	1	T	T	T	T	5.7 6	5	T	5	5	0.4 5	5	
Spencer 1 N	0.2 3	T	3	3	3									2.0 2	2	2	2	2	2	2	2	2	2	2	2	2	1.0 3	3	3	2	1	1	6	-
Waterloo			1.0 1	1	1															0.2 T	T						0.5 1	5.0 6	6					0.5 T

See reference notes following Station Index.

STATION INDEX

IOWA
JANUARY 1950

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Aiton	0084	Union	9 41 02	94 12	1200	SP	GP	Fred E. Lamb	2 3 5	Morse 4 mi. SW	5742	Johnson	10 41 41	91 28	1214	GP	GP	L. J. Fuhrmeister	3 4		
Akron	0085	Plymouth	1 42 49	96 33	1193	GP	GP	Orland C. Moore	3	Mount Ayr 2 mi. W	5769	Ringgold	9 40 44	94 14	730	GP	GP	H. L. Cornelison	2 3 4 5		
Albia	0112	Monroe	6 41 02	92 48	949	SP	7A	Arthur L. Freed	2 3 5	Mount Pleasant	5798	Henry	21 40 57	91 32	730	GP	GP	A. M. Patterson	2 3 4 5		
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Harry B. Wolfe	2 3 5 7	Noville	5823	Woodbury	11 42 29	96 04		7P	7P	Elmer W. Widsark	3 4		
Allerton	0149	Wayne	8 40 42	93 23				Berman E. Reddy	3 4	Muscataine No. 1	5837	Muscataine	14 41 26	91 03	680	7P	7A	F. J. Bauerbach	2 3 4 5		
Allerton	0157	Butler	4 42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Muscataine No. 2	5842	Muscataine	14 41 25	91 03	546	7P	7A	Robert H. Bagy	3		
Allerton	0173	Buena Vista	30 42 40	95 16	1513	7P	7A	F. Edna Allen	2 3 5	Muscataine 6 mi. W	5847	Muscataine	4 42 59	92 34	960	7A	7A	Bureau of Entomology	3 4		
Alta	0181	Sioux	7 42 59	90 01	1305	7P	7P	W. S. Slagle	2 3 5	Nashua 2 mi. NW	5872	Floyd	27 43 04	92 19	1156	7P	7P	William A. Cory	3		
Alton	0205	Story	31 42 00	93 39	1004	7P	7P	Charles N. Brown	2 3 4 5 6 7	New Hampton	5928	Chickasaw	21 41 43	93 04	850	7P	7P	Lody Hrdlicka	2 3 5		
Ames 3 mi. SW	0213	Jones	27 42 07	91 18	873	SP	7P	State Reformatory	2 3 5	Newton	5992	Jasper	4 41 28	92 05	789	7P	7P	Al A. Scheel	2 3 5		
Ames 1 mi. NW	0213	Jones	27 42 07	91 18	873	SP	7P	State Reformatory	2 3 5	North English	6076	Iowa	4 41 28	92 05	789	7P	7P	Ernest E. Andrews	3 4		
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59	1110	SP	7A	Roy L. Fancolly	2 3 5 7	Northwood	6103	North	4 43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5		
Atlantic AP CAA	0389	Cass	16 41 24	94 59	1110	MID	MID	Airways Com. Sta.	2 3 4 5 7	Northwood	6119	Page	23 40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5 7		
Audubon 2 mi. E	0385	Audubon	16 41 42	94 57	1297	GP	GP	Ralph E. Kibby	3 5	Northwood	6151	Pottawattamie	16 41 19	95 23	1150	SP	GP	Ward D. Reineke	2 3 5		
Aurora	0389	Des Moines	21 40 48	91 17	522	GP	SA	Glen Wood	3 5	Oakland 2 mi. E	6186	Johnson	10 41 43	91 24		SP	GP	Ed. Kadara	3 4		
Augusta	0463	Kossuth	6 43 18	94 15	1200	7P	7P	Guy D. Hart	2 3 5	Oakland	6200	Fayette	27 42 40	91 55	1036	SP	SP	Milo M. Franz	2 3 5 7		
Avoca	0492	Fremont	28 40 52	95 44				H. L. Kilpatrick	3 4	Onawa	6243	Monona	15 42 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5		
Avoca	0549	Boone	6 42 02	94 08				Virgil J. Stark	3 5	Onawa	6305	Mitchell	4 43 17	92 48	1170	SP	GP	L. J. Lamprecht	2 3 5		
Beaver	0578	Taylor	28 40 41	94 44	1215	GP	GP	H. J. Chambers	2 3 5	Onawa	6316	Clarke	6 41 02	93 46	1136	GP	GP	Ray A. Kerns	2 3 5 7		
Beaver	0578	Taylor	28 40 41	94 44	1215	GP	GP	H. J. Chambers	2 3 5	Onawa	6327	Mahaaka	6 41 17	92 40	813	SP	SA	Cliff Bergtresser	2 3 5 7		
Belle Plaine	0600	Benton	10 41 54	92 17	855	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa AP CAA 5 mi. W	6389	Wapello	8 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5 7		
Belle Plaine	0600	Benton	10 41 54	92 17	855	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa	6391	Wapello	8 41 00	92 24	820	7P	7A	Winfrey Kinsey	3		
Belle Plaine Lock & Dam 12	0608	Jackson	14 42 16	90 25	803	7P	7A	U. S. Engineers	2 3 4 5	Pella	6527	Marion	8 41 24	92 55	875	7P	7P	E. C. Beasing	3		
Blackhawk 2 mi. S	0745	Taylor	19 40 36	94 28	1081	5P	GP	Glenn A. Cobb	3	Pella	6556	Dallas	20 41 51	94 06	975	7P	7P	Eugene W. Hastic	2 3 5		
Blackhawk 2 mi. W	0753	Davis	5 40 47	92 28	825	7P	7P	Mrs. Leo Foster	2 3 5	Pocahontas	6719	Pocahontas	8 42 44	94 40	1228	5P	5P	Thomas A. Mc Mahon	2 3 5		
Boone	0807	Boone	6 42 04	93 53	1126	SP	GP	E. G. Kolb	2 3 5	Pocahontas	6800	O'Brien	11 42 05	95 38	1517	GP	GP	R. A. Ballard	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Pocahontas	6840	Montgomery	18 41 01	95 14	1077	GP	GP	Clarence M. Totty	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Red Oak	6940	Montgomery	18 41 01	95 14	1077	GP	GP	Mrs. Z. M. Conrad	3		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	18 41 01	95 14	1077	GP	GP	Municipal P & L Pl.	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Reason	6975	Plymouth	7 42 49	95 58		7P	7P	Harrin A. Treese	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Ringsted	7038	Emmet	6 43 18	94 30		7P	7P	William Stubbs	3		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Riverton	7055	Fremont	16 40 41	95 35	920	7P	7P	George Eaveling	2 3 5 7		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Rock Rapids	7147	Lyon	1 43 26	96 10	1241	7P	7P	F. C. Beitelbacher	2 3 4 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Rockwell City	7161	Calhoun	20 42 24	94 37	1223	7P	7P	W. Floyd Weary	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Sac City	7312	Sac	20 42 26	94 59	1274	SP	SP	Irvin L. Halverson	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Sac City	7326	Mitchell	4 43 21	92 55		7P	7P	Rose K. Wisc	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Miss Susie O'Dow	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Don A. Fairchild	2 3 5 7		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Richard J. Galvin	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Ross E. Forward	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Elmer J. Apfel	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Karl May Seed Co.	2 3 5 7		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	R. D. Steward	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	James B. Shearer	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Grace L. Sanderson	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Richard J. Eross	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Leo Vondrak	3		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	U.S. Weather Bureau	2 3 4 5 7		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	W. A. McKelvey	3		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Don A. Simonsen	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	John T. Wade	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Radio Station KICD	2 3 4 5 7		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Louis J. Benua	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Otha A. Sweet	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Radio Station KATL	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	W. H. Ewanziger	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Raymond C. Yates	3 4		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	James A. Verpicoch	2 3 5		
Boone	0823	Hancock	10 43 04	93 49	1234	GP	GP	Rev. B. A. Rust	2 3 5	Saint Ansgar 2 mi. E	7340	Madison	6 41 16	93 47		7P	7P	Edward S. Dean	2 3 5		

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the postoffice.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- ⊖ Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 3-28-50 -- 1096

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
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In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

FEBRUARY 1950

Volume LXI No. 2



IOWA - FEBRUARY, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

February 1950 averaged near normal in temperature but had approximately 1/2 inch more precipitation than normal. The average snowfall, 11.5 inches, was 6 inches more than normal, and was the 6th greatest of record in 59 years. While the total precipitation was nearly 50% greater than normal, little of that precipitation reached the streams before the close of the month. According to the U. S. Geological Survey, streamflow in central Iowa continued below normal for the 10th consecutive month, and had been among the lowest of record since July 1949.

The month opened fair and cold, with sub-zero temperatures reported from a major portion of the State. Temperatures rose steadily and by the 5th of the month were generally more than 10 degrees above normal. The unusual warmth continued through the 10th of the month when cooler weather set in but with temperatures continuing near or slightly above normal. During this warm period a cold front passed aloft over Iowa, giving heavy snows locally in the north central and northeastern counties on the 8th. The heaviest fall was 9 inches at Williams. On the afternoon of the 12th, a small storm developed over north central Texas which moved slowly northeastward and later northward across northern Arkansas, Indiana, and lower Michigan, reaching the Straits of Mackinac the afternoon of the 14th. During this period, an intense anticyclonic system with cold weather covered the southern Hudson Bay area with the wedge of cold air extending southward into the north-central States. Heavy falls of snow occurred where moist air from the storm center overran the wedge of cold air. The heaviest falls of snow occurred over central Iowa with over 10 inches reported from a wide area in central and northeastern Iowa, and an extreme depth of 15 inches at New Hampton. The heavy snow interrupted traffic. Most of the snow in Iowa fell on the 13th. Following the storm there was a period of mostly fair weather with temperatures fluctuating over a considerable range and averaging slightly below normal.

Some sleet and freezing rain was reported on the 21st in connection with a small disturbance over southeastern Missouri. Following this storm, temperatures began to drop in Iowa, with some of the coldest weather of the month experienced on the 24th, 25th and 26th. Scattered snow occurred in the State during this cold period with a maximum fall of 10 inches reported from Conrad on the 24th. An extreme temperature of 24 degrees below zero was reported from Clarion on the 26th. As the month closed, temperatures rose rapidly to slightly above normal. Thunderstorms were reported from numerous localities the night of the 27th. Streams began to rise in the southwest, and highway No. 2 was closed east of Sidney because of high water. Near the town of Missouri Valley, which experienced disastrous floods early in March 1949, levees on the Boyer river broke, threatening the town with flood waters again this year.

-- CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
FEBRUARY 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
Burlington WB Airport	NW	19	13.7	40	NW	18	84	87	74	79	5	3	6	1	0	0	15	55	6.8	1062
Charles City WB City	-	-	6.7	20	SE	27	-	-	-	-	2	6	2	1	1	0	12	61	4.9	1263
Davenport WB City	-	-	-	-	-	-	-	-	-	-	5	5	5	1	0	0	16	-	-	1092
Des Moines WB City	NW †	13†	9.8	30	NW	28	82†	84†	70†	75†	7	1	6	1	0	0	15	54	5.8†	1145
Dubuque WB City	-	-	6.2	21	NW	28	-	-	-	-	5	7	2	1	0	0	15	54	6.5	1159
Sioux City WB Airport	NW	15	10.0	35	NW	28	78	78	69	76	5	7	1	0	0	0	13	75	6.0	1232

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	19.2	49	-25	1.17			1903	19.8	56	-21	1.18	7.9	4	1933	22.3	69	-31	0.32	3.6	3
1874	21.2	59	-20	1.28			1904	14.8	70	-26	0.41	4.5	4	1934	25.0	71	-25	0.47	4.1	3
1875	6.4	48	-31	1.72			1905	12.8	69	-41	1.57	15.5	7	1935	29.1	64	-19	1.13	5.5	6
1876	25.5	68	-16	1.11			1906	23.6	66	-32	1.29	6.1	5	1936	6.0	71	-35	1.33	15.9	6
1877	34.0	63	-5	0.21			1907	25.0	65	-31	0.71	4.6	4	1937	19.6	60	-24	1.04	6.7	6
1878	34.4	60	-8	0.59			1908	24.3	59	-16	1.69	8.9	6	1938	29.0	71	-22	0.94	4.6	7
1879	21.6	57	-20	0.68			1909	26.2	62	-26	1.54	7.7	5	1939	20.3	60	-23	1.75	14.9	5
1880	27.4	68	-12	0.64			1910	17.8	58	-21	0.46	4.0	3	1940	24.2	56	-27	1.18	11.1	9
1881	17.0	57	-24	3.10			1911	27.3	71	-13	2.76	7.0	6	1941	22.3	59	-18	0.50	2.2	4
1882	33.5	72	-12	0.91			1912	18.1	57	-30	1.21	11.2	5	1942	23.4	52	-21	1.15	9.4	6
1883	17.7	62	-33	1.89			1913	20.2	70	-24	0.82	7.3	4	1943	27.5	71	-20	0.77	2.9	4
1884	18.3	56	-23	1.32			1914	16.8	59	-29	0.87	9.2	6	1944	26.7	68	-30	1.10	6.7	6
1885	12.5	54	-32	0.82			1915	29.1	62	-8	2.93	9.4	9	1945	25.5	68	-23	1.43	11.6	7
1886	21.2	56	-34	0.59			1916	19.0	62	-32	0.55	6.0	4	1946	28.8	73	-16	0.36	2.2	5
1887	17.1	60	-25	2.14			1917	15.2	68	-37	0.36	3.5	3	1947	18.3	67	-22	0.31	4.1	4
1888	20.2	64	-34	1.01			1918	23.0	70	-36	0.95	6.0	5	1948	23.2			1.90	5.2	6
1889	17.8	62	-28	0.47			1919	24.9	65	-16	2.42	9.9	8	1949	19.6	57	-31	0.87	5.0	5
1890	25.1	68	-24	0.83			1920	24.0	59	-22	0.56	4.1	5	1950	22.4	64	-24	1.56	11.5	7
1891	19.4	70	-31	1.16		3	1921	31.0	78	-5	0.77	6.5	5	PERIOD	22.5			1.08	6.6	
1892	26.1	68	-20	1.20		6	1922	23.7	70	-20	1.59	1.3	4							
1893	16.0	60	-28	1.39		6	1923	20.1	61	-23	0.40	3.2	3							
1894	19.7	60	-19	0.89		3	1924	25.8	70	-15	1.27	11.2	7							
1895	16.4	73	-33	0.49		4	1925	28.4	66	-16	0.82	2.6	4							
1896	27.4	78	-13	0.71		4	1926	31.2	67	-2	0.76	3.3	4							
1897	24.7	61	-24	0.89		5	1927	30.6	65	-17	1.15	4.4	5							
1898	24.2	62	-18	1.20		5	1928	28.6	65	-14	1.95	4.4	7							
1899	12.2	75	-40	0.89		5	1929	14.0	52	-35	1.31	12.5	8							
1900	14.8	60	-27	1.30		6	1930	35.5	80	-34	0.67	2.8	5							
1901	17.5	49	-21	1.01		4	1931	35.4	65	-4	0.25	0.9	2							
1902	17.6	62	-21	0.73		4	1932	28.9	74	-16	0.83	5.1	5							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
FEBRUARY 1950

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	21.1	.9	43	9	- 7	2	28	1.12	.10	.35	8	13.0	8	1+	5	3		
Alton	22.5M	1.3	48	10	- 14	1	28	.95	.15	.30	23	9.5	6	25+	5	1		
Cherokee	21.3	.8	45	20	- 12	1	28	.81	-.09	.27	8	8.0	5	1+	6	1		
Emmetsburg	20.0		43	10	- 14	26	28	1.35		.50	14	15.5	7	25+	5	3		
Estherville	20.1	2.5	42	9+	- 13	1	28	.48	-.39	.23	25	7.0	8	1	5			
Hawarden	21.4	.3	47	9	- 15	1	28	.97	.21	.30	25	12.5	6	13+	7	1		
Inwood 2 W	20.7	1.7	44	5	- 13	1	28	.82	.05	.40	25	12.3	9	25+	5	2		
Lake Park	19.0	2.0	40	9	- 14	26	28	1.14	-.33	.50	24	12.5	10	25	4	2		
Le Mars	22.8	1.7	45	9	- 13	1	28	.80	-.02	.30	25	10.5	8	1+	5	1		
Milford 4 NW	19.2	1.7	42	9	- 16	26	28	.46	-.39	.29	25	8.1	8	25	5	1		
Pocahontas 2 SE	20.2	.2	42	9	- 16	26	28											
Pringhar	22.5	2.7	45	28	- 11	1	28	.55	-.25	.32	25				3	1		
Rock Rapids	20.1	1.7	43	9	- 16	1	28	.80	.12	.49	25	12.5	8	25+	5	1		
Sanborn	20.7	1.8	41	17+	- 9	1	28	.96	.16	.72	25	11.1	9	25	5	1		
Sheldon	20.0	1.1	40	9+	- 13	1	28	.74	-.05	.38	25	12.5	8	1+	6	1		
Sibley	18.7	1.7	39	9+	- 21	26	28	.93	.22	.55	25	11.4	8	11	6	1		
Sioux Rapids	16.2	- 3.6	40	9	- 20	26	28	.80	-.15	.33	25	18.0	10	13+	5	1		
Spencer 1 N	17.4	-.7	42	9	- 22	26	28	.47	-.42	.20	25		6	24+	5			
Storm Lake 2 E	20.0	-.2	41	10+	- 9	26	28	.72	-.20	.36	8	11.9	6	13+	6	1		
DIVISION	20.2	.8						.83	-.01			11.6						
NORTH CENTRAL DIVISION																		
Algona	20.0	.4	42	10	- 10	26	28	1.17	.20	.52	8	10.2	8	25+	6	2		
Allison	19.5	- 1.0	41	10	- 12	24+	28	2.36	1.24	1.02	8	16.2	15	23+	5	3	1	
Bancroft	20.5	2.6	42	9	- 11	1	28	1.26	.36	.83	13	13.5	9	13+	4	2		
Britt	14.3	- 4.6	35	5+	- 15	24	28	1.98	1.23	.62	8	16.0			5	4		
Charles City	17.9	-.6	38	6	- 11	24	28	2.10	.99	1.00	8	13.8	11	14+	10	2	1	
Clarion	17.7	- 2.6	40	3	- 24	26	28	1.87	.20	.77	8	19.5	15	25+	8	2		
Dakota City	20.6	-.2	41	10	- 15	26	28	1.77	.84	.62	13	16.6	12	25+	7	3		
Forest City	16.5	- 1.6	38	6+	- 15	1+	28	1.23	.21	.65	14	11.3			5	2		
Hampton	19.0	-.9	40	28	- 11	26	28	2.45	1.32	1.23	8	16.0	13	25+	8	2	1	
Mason City 3 N	17.0	- 1.8	39	6	- 11	1+	28	1.16	.22	.65	8	12.7	8	13	6	2		
Mason City AP CAA	15.2	- 3.6	39	27	- 14	25+	28	1.06	.12	.58	8	9.2	9	25+	6	2		
Northwood	17.2	-.6	39	6+	- 12	1+	28	1.31	.15	.81	14	14.5	14	25	5	2		
Osage	17.6	- 1.0	38	10	- 13	24	28	1.38	.36	.60	9	10.5	8	14	4	2		
DIVISION	17.9	- 1.3						1.62	.62			13.8						
NORTHEAST DIVISION																		
Cascade	21.4		40	4+	- 15	26	28	1.28		.57	13	11.8	8	13+	7	1		
Cresco	18.1	.6	42	6	- 18	24	28	2.05	1.00	.78	8	17.0			6	3		
Decorah	18.4		42	6	- 17	26	28	1.61		.91	8	12.0	9	14+	4	2		
Decorah 2 S	16.7	-.5	40	6	- 22	26	28	1.61	.56	.90	9	15.0	8	9	5	2		
Delaware 2 W	19.6	-.4	37	5+	- 15	26	28	1.49	.52			11.0	9	25	9			
Dubuque L & D 11	20.0	- 2.6	39	5	- 11	26	28	1.68	.48	.60	14	13.7	12	14+	10	2		
Dubuque WB City	23.3	.7	42	6	- 6	24	28	1.51	.31	.93	13	10.1	7	13	10	1		
Elkader	18.8	-.9	42	6	- 18	26	28	1.50	.36	.53	13	13.5	17	25	8	2		
Fayette	18.8	-.8	42	6	- 18	26	28	2.08	.80	.87	8	11.4	9	15	9	3		
Guttenberg L & D 10	22.9	1.4	53	7	- 8	26	28	.90	-.25	.31	9	8.0	10	14+	9	1		
New Hampton	14.6	- 4.2	40	6	- 20	24+	28	1.97	.95	.90	8	21.0	25	25+	5	3		
Oelwein	20.1	.3	38	5+	- 10	24	28	1.50	.52	.53	8	9.5	8	15	6	3		
Saratoga 2 E	16.1		38	6	- 16	24	28	.54		.45	8	7.5	7	13+	3	1		
Tripoli	20.4		42	10	- 12	24	28	2.06		.94	8	8.2	3	13	6	3		
Waterloo	19.8	- 1.5	39	5+	- 13	26	28	1.81	.72	.45	9	11.6	9	15	8	4		
Waukon	19.3	1.6	40	6	- 16	24	28	.15	- 1.17	.09	8	4.9	11	21+	2			
DIVISION	19.3	-.4						1.48	.38			11.6						
WEST CENTRAL DIVISION																		
Audubon 2 S	23.1	.4	45	20+	- 4	1	28	1.49	.39	.64	13	8.2	6	13+	7	2		
Carroll	23.2	1.3	50	20	- 5	26	28	1.92	.92	1.00	13	14.5	13	26	8		1	
Castana 4 E	22.4		49	28	- 10	19	28	1.04		.45	13	13.7	12	14+	6	1		
Cushing 3 NE	21.7	.2	47	20	- 7	2	27	.97	.07	.52	12	6.5	8	13	4	2		
Denison 1 S	21.6	- 1.0	45	27	- 5	1	28	1.40	.54	.53	28	4.0	4	13+	6	3		
Guthrie Center	23.4	.4	48	20	- 4	1	28	1.87	.80	.84	13	10.5	7	13+	8	2		
Harlan	24.1	.7	47	27	- 9	1	28	1.85	.94	.75	8	8.6	8	13+	7	3		
Ida Grove 4 S	22.8	.9	45	28	- 5	1	28	1.17	.23	.61	13	13.0	8	13	6	1		
Jefferson	22.6	.6	43	9	- 5	26	28	1.81	.72	.80	13	15.5	9	13+	5	3		
Lake City	21.3 M	-.6	45	9	- 8	26	28	.71										
Logan	24.0	-.7	49	20	- 10	1	28	1.27	.37	.36	8	5.0	11	1+	7	3		
Mapleton 5 NW	21.6	- 1.2	47	28	- 8	2	28	.91	.04	.40	25	9.0	5	1+	5	1		
Missouri Valley	25.9	1.0	52	27	- 9	1	27	2.25	1.35	1.18	13	9.8	8	13+	8	3	1	
Onawa	17.5	- 6.5	46	9+	- 12	1	28	1.23	.20	.68	13	11.3	11	13	8	2		
Rockwell City	21.3 M	-.3	44	9	- 7	26	28	1.58	.35	.60	13	11.3	6	13+	8	2		
Sac City	22.7	1.2	45	9+	- 5	1+	28	1.22	.18	.22	8	10.0	6	1+	6	2		
Sioux City WB AP	21.1	-.3	46	9	- 14	1	28	.71	-.14	.35	12	7.8	5	1+	8	1		
DIVISION	22.4	-.4						1.38	.39			9.9						
CENTRAL DIVISION																		
Ames 3 SW	21.6	- 1.2	43	9	- 12	26	28	1.29	.31	.44	8	12.4	8	13+	7	2		
Boone	22.8	.5	44	9+	- 6	26	28	2.62	1.61	1.10	13	19.3	13	13+	7	3	1	
Des Moines WB AP	23.1	-.7	48	20	- 5	26	28	2.23	1.13	.68	13	15.3	12	13	9	3		
Des Moines WB City	23.9	- 1.0	49	20	- 4	1	28	1.83	.73	.57	13	16.4	11	13+	8	3		
Fort Dodge	20.6	.3	42	9+	- 11	26	28	1.76	.87	.45	9	19.0	12	25+	8	3		

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
FEBRUARY 1950

Table 2-Continued

Station	Temperature							Precipitation											
	Average	Departure from normal	Highest	Days	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Days	Snow, Sleet, Hail			No. of days			
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more	
Grinnell	23.1	-.7	43	10	-11	26		28	1.53	.40	.68	13	18.5	11	15+	8	2		
Grundy Center 4 NE	19.3	-2.3	40	10	-14	26		28	1.39	.39	.36	9	10.0	12	25+	8	2		
Iowa Falls 1 N	17.8	-3.0	40	9	-20	26		28	1.83	.54	.40	9	17.0	14	26	8	3		
Marshalltown	21.1	-1.4	42	9	-14	26		28	2.61	1.48	1.17	13	22.1	16	25	6	4	1	
Newton	23.9	-.1	45	10	-10	26		27	1.86	.76	.59	13	11.9	6	14+	7	3		
Perry 2 SE	22.3	-1.0	45	9	-10	1		28	1.95	.86	.81	8	13.0	8	13+	7	2		
State Center	23.4	.4	41	5+	-5	24		28	2.38	1.28	.62	8	20.7	12	14	8	4		
Toledo	22.6		43	9+	-12	26		28	1.47	.37	.32	13	16.0	8	15	9	2		
Faukes	25.1	.8	47	9	-6	1		28	2.06	.99	1.00	13	13.0	11	13+	7	2	1	
Webster City	18.6	-2.3	42	10	-24	26		28	2.04	1.09	.94	8	23.0	19	25+	7	3		
Woodward 7 N	23.2	.2	45	20	-12	26		26	2.24	1.19	1.17	13	15.0	9	13+	7	2	1	
DIVISION	22.0	-.8							1.94	.87			16.4						
EAST CENTRAL DIVISION																			
Anamosa 1 NW	21.3	-.7	40	6+	-12	26		28	1.63	-.53	.82	13	11.1	8	25+	8	1		
Helle Plaine	22.2	-1.1	43	10	-13	26		28	1.63	.26	.70	13	17.7	12	25	9	3		
Bellevue L & D 12	23.0	-.5	41	11	-8	26		28	1.65	.35	.61	14	5.1	4	1+	7	3		
Cedar Rapids No. 1	23.1	.2	41	5	-8	26		28	1.28	.22	.29	13	10.6	7	26	10	2		
Clinton No. 1	25.4	.9	41	4+	-10	26		27	1.99	.57	.70	13	9.8	7	25+	10	2		
Davenport WB City	25.7	.3	43	5	-7	26		26	2.16	.77	.80	13	9.0	6	25+	11	3		
Iowa City AP CAA	22.5	-1.1	42	6+	-14	1		27	2.01	.73	.46	13	14.1	10	25	11	4		
Le Claire L & D 14	25.6		43	10	-11	26		26	1.49	.09	.29	13	10.0	8	26+	11	3		
Maquoketa 5 E	22.6	-.3	41	10	-11	26		26	1.36	.10	.35	13	12.5	11	25+	9	2		
Muscatine No. 1	25.9	.9	44	10	-10	26		26	1.85	.50	.46	13	10.8	8	25	8	4		
Tipton	24.4	.9	44	10	-8	26		25	1.45	.20	.73	13	13.4	6	1+	5	2		
Vinton	21.2	-1.7	41	6	-11	1+		27	.85	-.30	.40	13	12.0	8	25	4	1		
Williamsburg	22.8	-1.0	42	10	-11	26		28	.97	-.23	.36	26		8	26	6	1		
DIVISION	23.5	.0							1.56	.31			11.3						
SOUTHWEST DIVISION																			
Atlantic 1 E	25.3	1.1	50	20+	-8	1		28	1.28	.21	.45	13	6.3	5	13+	6	3		
Atlantic AP CAA	23.1	-1.1	49	27	-12	1		28	1.47	.40	.49	13	6.2	6	14+	7	3		
Bedford 1 N	27.4M	.9	56	20	-4	1		27			.45	13	6.0	5	13+				
Clarinda	29.0	2.8	64	28	-10	1		27	1.18	.11	.58	13	7.3	6	13	5	1		
Corning 1 W	25.4	.2	54	20	-7	1		28	.51	-.55	.18	13				5			
Council Bluffs 5 NE	25.9		51	20	-14	1		27	1.54		.80	13	6.2	6	14	6	3		
Glenwood 2 E	26.7	.7	54	27	-9	1		26	1.77	.72	.67	12	9.5	8	13+	5	3		1
Greenfield	23.4	-1.2	49	20	-5	1		28	2.24	1.19	1.05	13	10.0	8	13	5	3		
Hornich 2 E SCS Farm	28.3	2.1	56	20+	-2	2+		27	1.30	.20	.55	13	8.8	8	13+	5	2		
Oakland 2 E	24.9	-.3	51	20	-11	1		28	1.45	.55	.59	13	5.5	5	13+	8	2		
Red Oak	26.0	-.2	54	20	-14	1		27	1.12	.02	.49	13	6.8	5	13+	5	2		
Shenandoah	28.7	2.0	58	20	-9	1		26	1.53	.43	.55	13	7.5	7	13	5	3		
Sidney	29.3		57	20+	-3	1		26	1.61		.80	13	7.0	7	13	5	2		
DIVISION	26.4	.7							1.42	.35			7.3						
SOUTH CENTRAL DIVISION																			
Albia	26.7	1.1	53	20	-6	1		27	2.20	.94	.81	13	11.5	6	1+	8	4		1
Canterville	27.9	1.1	55	20	-9	1		26	2.46	1.16	1.05	8	6.2	4	1+	8	4		
Chariton 3 E	25.5	-.1	49	20	-9	1		27	1.56	.52	.50	8	10.0	6	13+	5	3		
Creston	24.6 M	-.8	50	20	-2	1		28	1.46	.41	1.10	13	8	8	14	3	2		1
Indianola	25.1	.8	52	20	-10	1		28	2.47	1.28	.97	13	16.0			9	3		
Knoxville 2 W	26.3	.5	48	9	-6	1		27	1.72	.49	.55	28	8.6	6	1	7	2		
Lamoni	27.4	.9	53	20	-3	1		27	1.87	.67	.74	13	7.3	5	13+	6	3		
Lamoni AP CAA	25.9		53	20	-6	1		27	1.95		.69	12	7.4	5	1+	7	3		
Millerton	26.7	.4	53	20	-7	1		28	1.02	.20	.49	8	7.3	5	1+	6	2		
Mount Ayr 2 N	27.1	.7	55	20	-8	1		27	1.26	.05			8.0	5	13+	5			
Osceola	26.5	.8	51	20	-2	1		28	1.93	.83	.61	8	10.0	6	13+	7	3		
Tingley	24.0	-1.8	50	20	-12	1		28	2.47	1.32	.72	8	11.5	8	14+	8	4		
Winterset	25.9	.4	50	20	-7	1		28	2.13	1.03	.87	13	13.9	12	14	8	2		
DIVISION	26.1	.3							1.88	.71			9.8						
SOUTHEAST DIVISION																			
Bloomfield 2 N	26.6	-.9	50	20	-6	1		26	1.67	.27	.86	7				6	3		
Burlington WB AP	26.8	.4	45	10	-11	26		27	2.32	.68	.97	8	6.3	5	26	10	4		
Columbus Junction	25.6	.2	44	10	-11	26		26	1.87	.49	.58	13		11	25+	8	4		
Fairfield	24.7	-1.3	47	20	-10	25		27	2.18	.78	.59	7	14.2	7	24	9	4		
Keokuk L & D 19	28.0	-.8	48	6	0	26+		26	1.17	.15	.37	9	6.1	2	25+	12	2		
Keosauqua State Park	29.0	2.5	50	20	-4	1		25	2.25	.93	1.03	8	8.5	6	25	7	3		1
Mount Pleasant	27.6	.8	45	10+	-10	26		27	2.74	1.49	.60	24	10.0	7	25+	8	6		
Oskaloosa	25.4	.3	48	20	-12	1		26	2.14	.86	.68	13	11.2	6	1+	10	3		
Ottumwa AP CAA	25.1	-1.9	47	20	-6	1+		28	1.83	.44	.61	8	7.4	4	25+	11	3		
Sigourney	25.0	-.2	44	20	-9	26		28											
Washington	25.7	.2	44	10+	-13	26		28	2.66	1.24	.69	8	12.5	10	25	11	4		
DIVISION	26.3	-.1							2.08	.71			9.5						
STATE	22.4	-.2							1.56	.47			11.5						

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
FEBRUARY 1950

Table 3

Station	Day of month																															Total in inch				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Afton											.20	.18											.10	.02	.33									.83		
Akron												.03	.81	.09	T										.31	.06								.25	2.20	
Albia							.53	T				.03	.33	.07										.02	.01	.22								1.17		
Algona							.52						.09												.05	.05									1.39	
Allerton R							.49					.34	.09										.05	.20	T									2.36		
Allison							1.02						.54	.50	T										.10										1.12	
Alta							.35						.08	.26	T										.30	.10	.33								.85	
Alton													.20	.20	T										.11	T	.16								1.29	
Ames 3 SW	Z				T	T	T					.02	.39	.02											.11	T	.16							.15	1.29	
Anamosa 1 NW							.06						.82	.12	.05										.05	.17	.15								1.63	
Atlantic 1 E												.13	.45	.02												.05	T	T							.27	1.28
Atlantic AP CAA	Z //				T	T						.17	.49	.13	T										.01	.02	T								1.47	
Audubon 2 S							.56					.06	.64	.03											.02		.06								1.49	
Augusta							1.25						.65	.20	.02									.10	.20	.10									2.82	
Bancroft							.25						.83		T										.03	.15									1.28	
Bartlett 3 E							.20					.45	.69												.09										1.53	
Bedford 1 N							.21					.20	.45												.10											
Belle Plaine					T		.08					T	.70	.06	.04									.01	.16	.03	.30								1.63	
Bellevue L & D 12	Z				T							.44	.61	.05	T										.10	.06									1.65	
Blokkton 2 S							.20					.29	.45													.12										1.38
Bloomfield 2 N							.86					.46	.05	T											.02	.01	.26									1.67
Boone					T		.83					.02	1.10	T	T										.13	.02	.32								.20	2.62
Britt							.62						.30	.54											.12	T	.40									1.98
Burlington WB AP	Z //				T	T	.97					.25	.40	.02	.01									.10	.26	.01	.16								2.32	
Carroll							*	.33				1.00	.05												.15		*								1.92	
Cascade	Z						.13					.57			.08										.15	.13		.20							1.28	
Castana 4 E							.17					.12	.45	.05											.05	T									1.04	
Cedar Falls							.66					T	.67	.24	.08										.16		.13								2.22	
Cedar Rapids No. 1	T						T	.04				.29	.23	.07	.01										.20	.11	.06								1.28	
Cedar Rapids No. 2							T	.05				.40	.45	.06	T										.32	.15	.03								1.71	
Centerville	Z						1.05					.05	.56	.08	.10										.29	T	.10								2.46	
Chariton 3 E							.50					T	.48												.06	T	.10								.42	1.56
Charles City	Z						1.00	T				.59	.21	.02											.02	T	.09								2.10	
Cherokee	Z						.27					.05	T												.06	.08	.20	T							.81	
Ciarence												.21	.51													.15									1.26	
Clarinda				T			.16					.18	.58	T												.08									1.18	
Clarion							.77					T	.12	.10											.10	.10	.60								1.87	
Clinton No. 1							.57	.03				.70	.03	.05											.02	.08	.14	.15							1.98	
Clinton No. 2							.16	.44				.53	.19	.04	.02										.22	.08		.07							1.99	
Columbus Junction							.44					.02	.58	.03	.02										.10	.40	.28								1.87	
Coon Rapids	R						.73					.15	.42												.05	.02	.10								1.83	
Corning 1 W							.05					.06	.18	T											.04										.51	
Council Bluffs 6 NE R							.26				.02	.63	.44	.08											.05	.04									1.73	
Council Bluffs 5 NE							.26					.26	.80	.08																					1.54	
Cresco							.78					.31	.53	.14																					2.05	
Creston					T	T	T					T	1.10	.11											.25										1.46	
Cumberland 5 NW					T		.39					.22	.43	T											.20	T									1.38	
Cushing 3 NE					T	T	T					.52	.30												.08	T	.07								.97	
Dakota City	Z						.38					.05	.62	.11											.10		.42								1.77	
Davenport WB City	Z	T					T	T				.21	.80	.01	.01									.04	.01	.38	T	.20							2.16	
Decorah							.91	T				.18	.34																						1.61	
Decorah 2 S							.90					T	.39	T	T																				1.61	
Delaware 2 W					T		.15				.02	*	*	.92	T											.21	.05								1.49	
Denison 1 S							.38					.06	.35	T												.04	.04								1.40	
Derby	R						.37					.33	.18													.21									1.46	
Des Moines WB AP	Z				T		.17					.61	.68	.01	T										.14	.01	.16	T							2.23	
Des Moines WB City	Z				T		.17					.32	.57	.02	T										.17	T	.13	T							1.83	
Dexter	R						.28					.35	.52	.03											*	.10									1.50	
Donnellson 4 N							1.26	.02				.09	.50												.01	.09	.07								1.44	
Dorchester							.63					.14	.20												.08		.09	.07								1.29
Dubuque L & D 11											.17	.04	.48	.60	.03	T									.08	.08	.02	.02							1.68	
Dubuque WB City	Z	T					.15				.02	.93	.03	.01											.09	.07	.07								1.51	
Dumont 4 NW							T	1.23				.15	.20													.09	.13								1.94	
Dunbar 2 NE							T	.21				.46	.20	T											.08	T	.61								1.88	
Eddyville							T	.40	T			.35	T												.20	.06									1.58	
Eldora							.25	.47				.54	.49	T											.15	.26	T								2.35	
Elkader							.48				.02	.53	.15	.02												.07	.03								1.50	
Emerson 5 NE							.12																													

HOURLY PRECIPITATION

IOWA
FEBRUARY 1950

Table 4-Continued

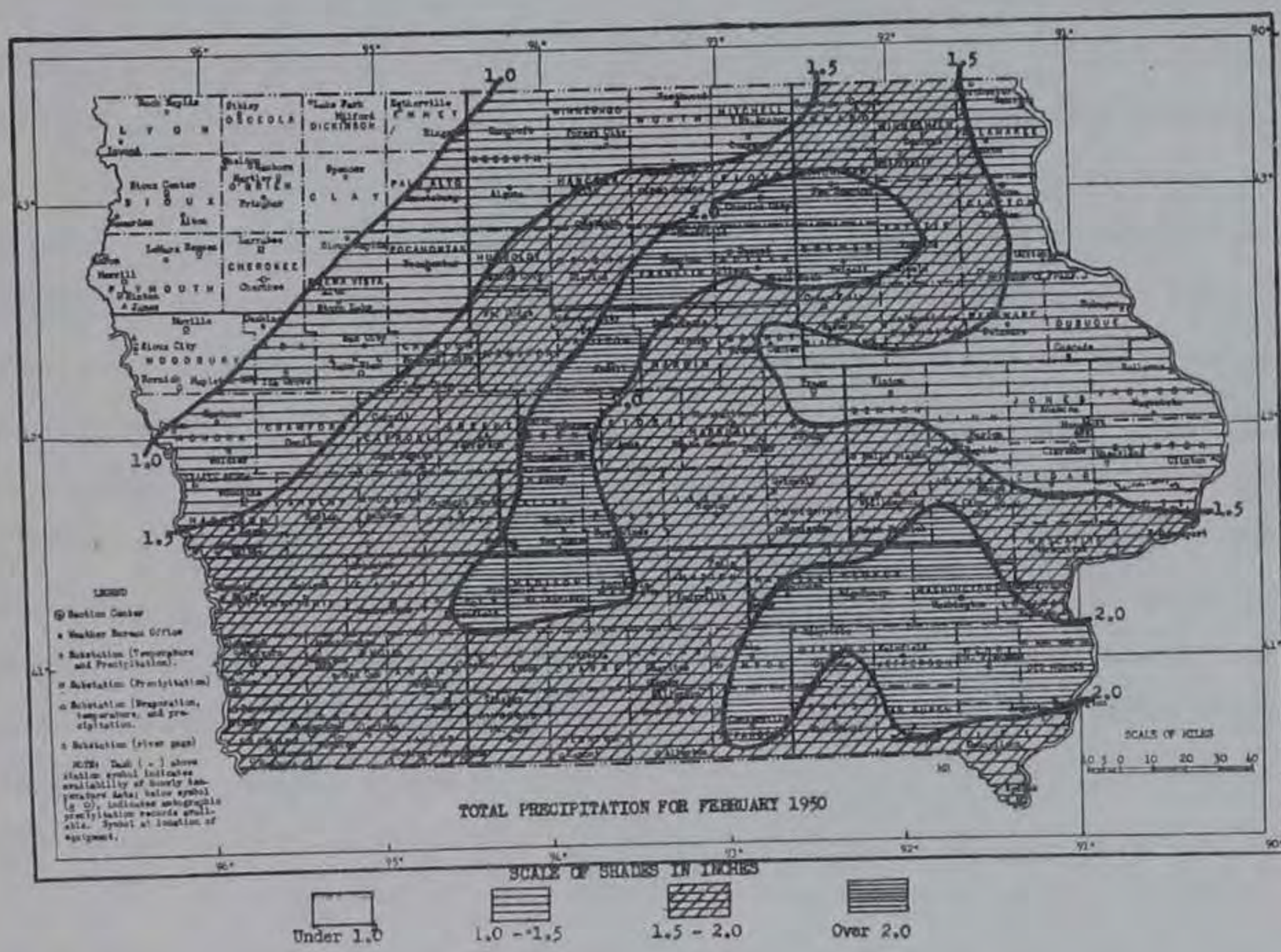
Station	A. M. Hour ending												P. M. Hour ending												Total									
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12										
NORTH ENGLISH NORWICH 2E SCS FARM	-12th-																								.02	.02								
ALLERTON			.01	.04																					.01	.01	.07	.04	.01	.04	.07	.02	.34	
AMES 3SW			.01																														.03	
ATLANTIC AP CAA																									.01	.01							.01	
CASCADE																																	.08	
CENTERVILLE			.02	.03																					.03	.02	.01	.01	.01	.01	.03	.02	.04	.15
CHEROKEE																									.01	.01	.01							.63
COON RAPIDS																																		.05
COUNCIL BLUFFS 6 NE			.01	.03	.01																				.02	.01	.02							.21
DAKOTA CITY																																		.33
DAVENPORT WB CITY																																		.61
DERBY			.01	.03	.01																				.01	.01	.01							.32
DES MOINES WB APT				.01	.02	.01																			.01	.02	.03	.05	.07	.07	.05			.35
DES MOINES WB CITY				.01	.01																													.09
DEXTER																																		.88
GREENFIELD																																		.29
GRINNELL			.06	.07	.06																				.08	.02	.02	.01	.01	.04	.03	.02	.01	.46
HAMBURG			.01	.01	.01	.02	.01	.01																	.02	.02	.01	.01	.01	.01	.03	.02	.01	.17
HINTON 5WNW																																		.02
HORNICK																																		.02
IDA GROVE 4S																																		.02
IOWA CITY AP CAA																																		.03
IOWA C RALSTON CRK1																																		.05
IOWA C RALSTON CRK2																																		.11
IOWA C RALSTON CRK3																																		.24
IOWA C RALSTON CRK4																																		.36
IOWA C RALSTON CRK5																																		.85
KEOKUK WBO			.01		.01																				.04	.01								.51
KNOXVILLE 2W			.02	.06	.05	.06	.01																		.07	.02								.03
LAMONI																																		.08
LAMONI AP CAA 4WNW																																		.03
LARRABEE																																		.04
LENOX			.01	.05	.07	.04	.03																		.01	.03	.04	.02	.06	.04	.08			.03
MARION 4NE																																		.05
MARSHALLTOWN NO 2																																		.08
MISSOURI VALLEY			.03	.04	.01																				.01	.01	.06	.02	.02	.05	.03	.06	.04	.10
MORSE																																		.06
MORSE 1NE																																		.12
MORSE 4SSW																																		.28
MOUNT AYR 2N			.08	.02	.05	.01	.01																		.03									.25
MOUNT PLEASANT																																		.17
MOVILLE			.02	.01	.01	.01	.01	.01																	.02	.01	.03	.02	.02	.02	.02	.03	.07	.72
MUSCATINE NO 1																																		.26
MUSCATINE 6N																																		.05
NORWICH 2E SCS FARM			.06	.05	.03	.02	.02	.01	.01	.04	.01	.01													.01	.02	.01	.01	.01	.01	.01	.01	.01	.07
OTTUMWA AP CAA																																		.60
RENSSEN																																		.10
ROCKWELL CITY																																		.35
SAINT CHARLES			.02	.01	.02	.02	.01																		.01	.01	.01	.01	.03	.02	.01	.01	.01	.42
SIOUX CENTER																																		.54
SIOUX CITY WB APT																																		.02
SOLDIER			.03	.04	.03	.02	.05	.03	.01	.04	.02	.02	.02												.01	.02	.02	.03	.03	.02	.03	.03	.03	.46
TABOR 6NW																																		.21
TRAEER			.03	.04	.02	.02	.01																		.01	.02	.01	.06	.09	.08	.04			.04
WALLIN 2WNW																																		.01
WASHINGTON																																		.28
WEBSTER CITY																																		.01
WHEATLAND																																		.01
WOODBINE 5SE			.01	.01																					.01	.01	.03	.01	.01	.03	.04	.02	.01	.28
-13th-																																		
ALLERTON			.04	.04	.01																													.09
AMES 3SW			.03	.05	.01	.03	.04	.04	.02	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.30
BELLEVUE L/D 12			.01	.01	.08	.08	.08	.04	.03	.03	.03	.06	.02	.01	.02	.01	.04	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.82
CASCADE			.02	.03	.06	.05	.09	.04	.03	.03	.03	.06	.02	.01	.02	.01	.04	.02	.02	.02	.02	.02	.02	.02	.02	.01	.02	.04	.02	.03	.09	.04	.02	.54
CHARLES CITY																																		.59
CHEROKEE																																		.03
COON RAPIDS			.06	.04	.05	.05	.07	.06	.02	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.02	.02	.01							.42	
COUNCIL BLUFFS 6 NE			.15	.12	.09	.03	.02	.02	.01	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.02	.02	.01	.01	.01	.01	.01	.01	.01	.44	
DAKOTA CITY																																		.52
DAVENPORT WB CITY			.07	.10	.05	.04	.05	.02	.04	.04	.06	.04	.07																					

HOURLY PRECIPITATION

IOWA
FEBRUARY 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
IOWA C RALSTON CRK3			.04	.11	.10	.05																			.30
KROOK WBO					.04	.01																			.05
KNOXVILLE 2W	.14	.07	.18	.15																					.54
LAMONI	.03	.06	.03	.02																					.14
LAMONI AP CAA 4NW	.10	*	*	*	*	*	.17																		.26
MARSHALLTOWN NO 2	.23	.01	.01	.01																					.04
MASON CITY AP CAA	.03																								.21
MISSOURI VALLEY		.01	.02	.01																					.23
MORONA		.06	.14	.01																					.25
MORSE	.01	.01	.01	.09	.10	.01																			.70
MORSE 1NE	.01	.02	.01	.08	.12	.01																			.20
MORSE 4SSW	*	*	*	*	*	.70																			.60
MOUNT AYR 2N	.03	.10	.07																						.31
MOUNT PLEASANT	*	*	*	*	*	*	*	*	*	*	.60														.03
MUSCATINE NO 1	.01	.02	.02	.03	.12	.11																			.30
MUSCATINE 6N	.03																								.30
NORWICH 2E SCS FARM		.04	.02	.13	.11																				.39
OASIS		.08	.05	.12	.12	.02																			.33
OTTUMWA AP CAA	.03	.18	.11	.01																					.04
SAINT CHARLES	.02	.02																							.11
SHEFFIELD	.03	.04	.04																						.15
SPILLVILLE	.02	.03	.07	.03																					.27
STRAWBERRY POINT	.11	.10	.04	.01	.01																				.05
TRAEER	.02	.01	.01	.01																					.41
WALLIN 2NW	.01	.01	.09	.13	.14	.03																			.30
WASHINGTON	*	*	*	*	*	*	*	*	.30																.03
WHEATLAND																									
WOODBINE 5SE		.01	.01	.01																					



DAILY TEMPERATURES

IOWA
FEBRUARY 1931

Table 5

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
AFYON	MAX 19 MIN -4	21 2	16 -8	36 6	40 15	41 30	46 30	39 28	35 32	45 27																					36.1 17.3	
ALBIA	MAX 25 MIN -6	24 4	41 12	42 13	42 31	44 32	38 30	37 33	48 22	45 31	36 23	33 30	31 26	26 22	27 20	32 7	46 13	39 20	37 8	53 18	47 24	33 15	35 18	19 -2	15 2	27 -5	45 12	46 31			36.1 17.3	
ALGONA	MAX 19 MIN -8	20 -1	30 -2	31 0	37 20	37 26	33 23	34 29	41 13	42 28	33 18	26 12	24 16	26 19	29 9	36 5	37 10	35 9	20 4	32 9	26 19	33 9	30 9	10 -6	10 2	19 -10	35 9	39 26			29.4 10.6	
ALLISON	MAX 25 MIN -4	19 -4	31 -4	34 1	40 2	36 21	35 29	35 25	40 30	41 6	28 31	30 15	29 17	25 19	26 23	25 16	38 -3	30 4	20 9	35 -5	28 8	31 19	24 6	11 11	7 -12	20 -7	33 -12	36 5			29.0 9.9	
ALTA	MAX 18 MIN -4	22 -7	28 4	26 7	36 21	36 26	32 24	34 29	43 20	42 31	33 17	25 18	24 15	26 18	26 7	26 4	40 16	35 11	28 5	38 12	31 19	36 10	30 10	11 -4	12 -3	21 0	40 11	40 23			30.0 12.1	
ALTON	MAX 20 MIN -14	40 -9	25 -8	34 -7	43 21	45 25	38 24	46 20	46 18	48 30	34 16	35 18	39 20	31 16	33 -5	37 -5	40 17	40 10	25 5	43 15	41 19	43 9	40 12	18 -3	13 5	23 -3					35.4 9.3	
AMES 3EW	MAX 19 MIN -5	19 -3	31 -1	31 2	39 20	39 30	33 28	34 31	43 19	41 30	35 19	30 26	28 21	28 21	30 15	38 5	36 4	24 16	39 0	34 10	30 22	28 9	14 13	11 -5	18 2	37 -12	40 7			30.5 12.6		
ANAMOSA 1NW	MAX 24 MIN -7	21 6	32 -2	35 2	38 22	40 31	37 25	36 30	37 22	40 26	35 14	33 25	31 22	28 24	26 15	30 7	34 -3	34 13	25 -1	33 10	30 29	29 17	25 14	14 -9	8 -2	21 -12	34 -2	39 30			30.4 12.7	
ATLANTIC 1E	MAX 23 MIN -8	23 -1	31 4	44 4	40 31	49 27	38 27	37 30	47 19	46 27	36 20	32 25	32 19	27 19	26 10	33 1	43 9	38 15	37 3	50 18	41 24	35 12	33 20	21 3	30 7	26 -1	50 15	47 29			35.9 14.6	
ATLANTIC AP CAA	MAX 21 MIN -12	23 -5	36 -3	44 0	40 32	43 27	35 27	46 26	44 20	33 20	32 25	25 19	26 19	22 7	32 -4	43 6	30 8	36 2	47 18	36 21	35 13	32 12	13 4	15 3	27 0	49 17	40 26			33.8 12.8		
AUDUBON 2S	MAX 19 MIN -4	27 4	28 4	35 8	37 10	39 28	34 24	44 28	41 24	35 28	30 26	28 22	24 16	24 9	26 4	38 21	33 33	35 35	45 34	34 35	30 12	12 2	18 -2	18 1	22 -3	45 12	44 22			32.1 14.0		
BANCROFT	MAX 27 MIN -11	19 -3	29 -1	36 0	38 25	36 24	34 22	34 28	42 15	39 29	36 16	27 17	24 15	27 18	27 7	36 1	37 12	35 5	25 2	37 10	30 20	36 7	33 9	11 -8	17 -2	24 -10	37 9	36 25			31.0 10.0	
BEDFORD 1W	MAX 23 MIN -4	23 5	39 7				39 29	38 27	47 32	46 23	43 27	35 25	30 20	24 19	24 12	34 2	48 13	44 11	41 6	56 25	50 24	36 13	37 21	33 6	21 9	25 2	53 16	50 30			37.6 17.1	
BELLE PLAINE	MAX 22 MIN -7	25 1	39 0	36 2	40 23	40 31	35 27	35 32	36 21	43 29	31 17	33 27	30 22	27 22	25 17	35 2	37 2	34 12	26 -1	37 10	36 23	34 13	28 14	14 -7	10 0	25 -13	38 6	40 28			31.8 12.6	
BELLEVUE L AND D 12	MAX 25 MIN -6	24 11	37 0	39 3	40 16	39 32	40 28	40 31	37 28	40 24	41 17	33 25	32 25	31 26	28 18	33 11	36 2	35 19	27 6	28 11	30 24	28 18	28 12	23 -6	10 -4	24 -8	32 -3	38 29			32.1 13.9	
BLOOMFIELD 2W	MAX 23 MIN -6	18 0	34 6	43 11	43 30	42 34	38 30	41 32	46 24	43 32	38 30	34 31	32 29	30 22	37 25	34 11	45 12	34 11	35 11	50 16	42 34	34 10	26 16	28 -4	28 -6	30 -2	43 3	42 31			36.1 16.9	
BOONE	MAX 19 MIN 2	22 2	33 9	32 7	42 24	39 30	33 30	35 30	44 12	44 30	36 16	30 25	26 20	27 14	29 4	31 12	40 15	38 3	25 12	39 3	33 11	33 12	29 12	12 -5	12 -1	22 -6	42 6	42 28			31.8 13.8	
BRITT	MAX 15 MIN -12	15 -2	19 -4	25 -3	35 13	35 22	32 20	32 -6	26 10	23 5	23 13	23 23	25 3	25 -5	22 0	31 2	31 -11	13 2	27 15	27 10	27 5	27 -15	27 -5	5 -8	3 -8	12 -4	33 20	30 4			24.4 4.2	
BURLINGTON WB APT	MAX 25 MIN 3	24 11	42 9	42 19	44 32	40 33	41 31	36 32	42 29	45 28	37 26	35 31	33 31	33 26	29 19	33 13	43 14	39 14	33 10	44 19	43 25	39 18	17 16	16 0	-7 -11	41 11	41 27			35.4 18.2		
CARROLL	MAX 23 MIN 3	18 3	30 7	30 -2	38 23	41 29	35 27	34 30	45 22	43 30	35 20	30 22	26 17	28 18	25 10	34 4	43 12	38 13	34 2	50 10	35 20	36 10	31 12	16 -2	16 1	25 -5	43 10	45 26			33.1 13.3	
CASCADE	MAX 25 MIN -8	22 7	35 -2	40 0	38 18	40 30	37 26	34 32	37 25	38 26	33 15	32 25	29 23	29 15	27 15	31 7	38 -3	31 13	27 3	30 9	28 25	31 19	26 13	15 -9	14 -5	20 -15	34 -5	39 28			30.7 12.0	
CASTANA 4E	MAX 21 MIN -5	24 -4	28 6	32 6	39 28	39 25	35 27	37 31	44 22	44 30	34 18	28 22	24 16	24 16	19 3	28 1	42 15	41 9	32 -10	42 15	31 22	32 8	32 14	14 -1	13 5	22 0	43 14	49 26			31.8 12.8	
CEDAR RAPIDS NO 1	MAX 25 MIN -6	22 6	38 3	38 5	41 24	40 31	36 27	36 32	38 23	40 28	35 17	35 27	30 23	28 25	26 17	32 8	40 1	37 13	26 1	37 11	34 25	31 17	29 15	15 -7	11 1	25 -8	37 8	40 29			32.2 14.0	
CENTERVILLE	MAX 25 MIN -9	24 3	43 8	42 15	41 32	45 30	40 33	35 33	49 21	46 29	42 23	34 31	33 25	29 20	27 7	33 12	47 44	40 40	55 21	50 24	33 17	36 20	32 1	15 6	-3 -3	15 15	32 32			38.0 17.7		
CHARITON 3E	MAX 24 MIN -9	24 -6	40 2	40 4	41 28	41 31	40 25	36 34	48 22	45 26	37 18	32 30	25 23	26 17	33 1	45 12	43 20	37 2	49 18	46 26	34 15	34 20	29 -3	14 5	25 -5	46 7	45 31			36.2 14.8		
CHARLES CITY	MAX 21 MIN -6	20 -2	29 -3	30 -7	37 24	38 27	35 27	33 24	32 6	27 20	25 15	27 18	24 19	28 21	24 13	28 -1	34 4	30 -3	20 12	32 16	25 7	27 1	24 -11	3 -6	9 -9	18 7	37 19	36 19			27.3 8.4	
CHEROKEE	MAX 21 MIN -12	19 -7	29 2	30 -4	42 28	34 25	36 25	43 31	42 18	29 16	26 19	23 16	23 15	23 6	33 1	41 16	31 11	30 5	45 14	28 20	35 8	30 8	8 -5	13 4	23 2	42 12	37 26			30.8 11.8		
CLARINDA	MAX 22 MIN -10	29 -5	41 3	50 8	41 26	58 29	38 28	49 21	54 19	41 24	45 22	32 30	34 22	25 20	35 12	43 0	57 8	40 14	61 6	57 28	38 27	37 14	34 21	21 8	10 10	3 -4	55 3	64 17			42.3 15.8	
CLARION	MAX 19 MIN -5	19 -4	40 -2	31 -6	37 21	37 27	33 25	34 26	38 -4	39 15	31 7	26 16	24 18	25 8	25 -2	36 3	32 7	21 9	34 5	28 20	31 0	26 10	10 -11	6 -4	18 -24	36 6	38 25			28.7 8.6		
CLINTON NO 1	MAX 29 MIN 0	27 14	40 5	41 11	41 25	40 35	41 29	35 32	45 31	45 27	37 23	35 31	33 27	34 18	30 12	33 7	39 19	36 8	30 13	34 25	33 22	30 18	20 -4	17 0	21 -10	39 0	40 30			32.9 16.9		
COLUMBUS JUNCTION	MAX 26 MIN -2	21 8	42 4	42 13	43 30	42 35	41 32	36 34	39 21	44 29	34 24	35 31	33 28	27 25	29 10	43 5	38 11	28 6	42 12	38 28	33 19	32 22	23 -3	13 3	19 -11	41 7	41 29			34.2 16.9		
CORNING 1W	MAX 21 MIN -7	20 1	37 8	42 14	41 32	46 29	37 28	47 18	47 22	45 26	37 22	34 20	31 19	25 10	30 -1	44 4	41 4	38 3	54 30	45 22	35 11	34 20	21 4	16 7	24 0	52 14	47 29			36.1 14.6		
COUNCIL BLUFFS 5NE	MAX 21 MIN -14	24 -7	38 -1	42 -1	41 33	43 26	41 31	37 32	49 19	47 25	43 22	33 30	26 19	27 6	33 -7	46 13	44 11	37 0	51 24													

DAILY TEMPERATURES

IOWA
FEBRUARY 1950

Table 5-Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
DECORAH 2S	MAX MIN	20 -13	18 -10	26 -9	31 -13	39 12	40 27	35 15	34 31	33 16	37 17	26 -4	28 8	25 20	27 20	25 14	32 -4	35 7	33 10	23 1	28 0	25 19	32 2	25 10	12 -15	10 -13	23 -22	34 -6	37 23	28.3 5.1		
DELAWARE 2W	MAX MIN	21 -3	19 0	31 0	34 1	37 23	36 30	37 27	32 30	34 26	36 25	27 10	29 15	27 21	29 23	23 11	26 2	35 2	30 7	25 0	27 12	29 17	28 17	25 14	14 -13	10 -8	20 -15	35 1	36 22	28.3 10.8		
DENISON 1S	MAX MIN	13 -5	18 -4	28 8	33 -5	38 32	37 25	34 26	34 28	43 21	42 31	31 19	29 24	24 16	25 18	20 7	29 -3	40 16	24 9	31 16	43 20	32 11	31 13	30 13	13 -1	10 3	23 -3	45 17	41 27	30.0 13.1		
DES MOINES WB APT	MAX MIN	22 -4	21 -2	35 6	35 6	40 28	43 30	35 29	35 27	46 41	42 30	31 21	33 25	26 21	26 21	25 21	27 2	43 9	34 12	30 3	48 14	37 21	32 13	31 10	10 -1	13 -3	20 -5	45 12	41 25	32.4 13.7		
DES MOINES WB CITY	MAX MIN	22 -4	24 1	37 3	36 7	41 27	42 31	35 30	36 27	47 22	45 31	32 24	34 25	25 22	27 21	26 13	30 8	44 7	34 16	31 5	49 14	38 21	32 14	32 9	10 -1	13 0	21 -3	45 12	41 25	33.2 14.5		
DUBUQUE L AND D 11	MAX MIN	22 -5	20 -4	29 4	35 0	39 23	37 30	36 30	35 25	35 25	33 26	33 12	29 22	29 21	28 24	24 15	27 5	35 -4	31 17	21 4	25 10	24 21	28 15	23 12	15 -9	11 -5	22 -11	33 -3	35 28	28.3 11.7		
DUBUQUE WB CITY	MAX MIN	25 3	23 11	35 8	39 10	41 26	42 31	39 30	35 32	39 26	38 29	33 17	32 25	29 24	32 26	27 17	33 14	39 6	34 11	26 10	28 11	28 22	30 18	26 9	9 -6	12 -1	23 -4	39 3	39 21	31.3 15.3		
ELKADER	MAX MIN	26 -9	23 -3	32 -8	40 -7	40 10	42 30	36 22	34 29	36 19	38 11	32 8	31 15	27 19	28 20	22 14	36 -1	40 -9	33 10	27 -3	32 2	32 18	34 10	26 10	10 -13	16 -10	26 -18	33 -5	38 21	31.1 8.5		
EMMETSBURG	MAX MIN	18 -13	23 -2	32 -5	29 4	40 16	34 26	33 19	33 30	41 15	43 30	34 17	26 18	19 15	27 18	30 10	37 8	36 14	35 10	22 5	35 10	30 19	22 10	31 16	16 -6	8 0	15 -14	36 8	34 24	29.3 10.7		
ESTHERVILLE	MAX MIN	18 -13	20 -1	30 4	28 -2	39 18	35 25	32 18	34 26	42 17	42 28	28 20	27 18	22 14	27 19	28 8	39 5	42 16	36 7	23 3	35 10	28 17	39 10	31 5	9 -7	10 -2	18 -10	40 7	39 22	30.0 10.1		
FAIRFIELD	MAX MIN	24 -3	20 8	41 13	41 24	43 26	40 31	39 33	37 26	41 25	42 23	33 23	34 28	32 25	28 23	34 8	44 9	28 20	28 15	47 21	40 19	33 19	37 19	9 -3	14 -3	20 -10	43 0	37 18	31 21	33.4 15.0		
FAYETTE	MAX MIN	24 -8	20 -2	30 -8	34 -9	38 14	42 30	34 21	34 30	33 18	39 20	32 9	30 17	29 18	25 20	32 12	33 2	30 13	25 12	28 -2	37 4	30 18	25 11	28 12	13 -13	10 -7	21 -18	32 -4	37 28	29.6 8.5		
FOREST CITY	MAX MIN	22 -15	18 -5	25 -7	33 -4	38 19	38 25	33 23	34 22	37 -5	38 10	29 11	25 12	24 16	28 18	24 5	27 3	35 -2	33 5	21 -5	32 0	25 17	29 4	16 5	8 -11	12 -6	16 -15	38 14	32 14	27.4 5.5		
FORT DODGE	MAX MIN	19 -2	20 -2	30 -4	32 -5	39 23	38 28	33 25	34 28	42 12	42 27	35 17	27 20	26 17	27 19	29 12	34 4	41 7	38 13	21 0	37 8	32 21	33 9	29 12	13 -6	9 0	18 -11	41 8	41 26	30.7 10.9		
GLENWOOD 2E	MAX MIN	23 -9	24 -4	40 4	43 9	43 34	48 29	37 28	36 33	50 18	46 24	40 22	34 30	30 20	26 19	24 9	36 -7	49 12	19 14	39 2	53 26	42 10	38 19	34 9	28 9	22 9	22 3	54 20	47 31	37.6 15.7		
GREENFIELD	MAX MIN	13 -5	21 2	37 3	38 6	37 27	41 29	35 25	44 18	45 23	46 31	37 22	30 27	29 19	28 17	25 13	33 14	41 4	37 17	38 3	49 18	29 12	25 10	26 11	15 -3	12 3	21 -1	45 11	45 29	32.8 13.8		
GRINWELL	MAX MIN	21 0	22 1	35 4	34 10	40 23	40 30	35 29	35 32	41 20	43 30	34 27	32 21	28 20	26 17	29 3	39 9	38 13	28 0	40 11	36 21	33 13	29 21	20 -8	11 -2	22 -11	38 8	39 29	32.1 14.0			
GRUNDY CENTER 4NE	MAX MIN	20 -5	18 -2	32 0	33 -2	38 15	39 29	34 25	34 31	38 14	40 26	33 17	30 20	27 20	26 20	25 11	29 -1	35 7	33 -5	20 6	34 19	32 7	30 11	23 -12	13 -8	8 -14	19 3	37 26	37 26	29.2 9.3		
GUTHRIE CENTER	MAX MIN	23 -4	21 3	36 10	36 5	40 26	41 28	34 27	33 26	47 22	43 30	35 19	30 25	27 18	25 19	25 12	34 6	40 13	36 7	32 4	48 11	36 21	36 11	32 15	15 -1	12 0	20 -2	43 11	43 22	33.0 13.7		
GUTTENBERG L D 10	MAX MIN	25 -6	24 2	33 -3	36 -3	41 15	45 30	53 27	42 29	35 18	42 24	41 9	44 18	42 18	36 21	30 15	33 -6	45 15	44 4	31 8	32 19	35 10	34 13	31 0	20 -6	15 -8	26 -8	34 -6	36 26	35.2 10.5		
HAMPTON	MAX MIN	19 -1	16 0	28 6	30 3	37 19	39 28	35 19	33 30	38 9	37 22	31 15	27 18	25 19	26 19	25 10	25 4	35 3	33 9	19 -3	32 6	29 20	28 5	24 11	12 -10	7 0	18 -11	34 4	40 26	27.9 10.0		
HARLAN	MAX MIN	19 -9	19 -6	31 -1	38 -3	38 30	41 26	39 29	35 32	44 20	43 30	40 23	31 27	28 19	25 19	25 8	30 -1	41 12	37 14	34 3	41 19	40 23	34 13	32 20	21 3	15 8	24 3	47 18	45 30	33.5 14.6		
HAWARDEN	MAX MIN	17 -15	28 -12	30 -10	32 -10	42 21	44 20	39 24	40 32	47 22	41 30	30 12	29 21	29 17	29 18	24 3	33 -6	38 10	22 8	32 4	36 12	29 19	45 12	30 11	20 -3	22 3	24 3	40 16	38 24	32.5 10.2		
IDA GROVE 4S	MAX MIN	23 -5	25 0	28 2	31 5	37 24	40 28	36 27	36 31	44 20	42 30	34 18	27 22	25 17	29 17	24 6	32 0	40 15	37 12	31 2	44 13	33 21	34 9	31 16	17 -4	16 4	26 -4	42 13	45 28	32.5 13.1		
INDEPENDENCE 2W	MAX MIN	22 -4	18 -2	31 -4	34 -4	38 17	40 28	37 24	36 28	34 17	38 24	32 10	31 19	28 18	28 18	26 10	24 0	36 -1											35.3 14.9			
INDIANOLA	MAX MIN	22 -10	24 0	38 8	35 5	41 26	45 30	35 28	36 32	48 21	47 29	36 21	32 28	31 21	27 20	27 17	33 8	45 19	34 3	52 14	43 23	33 12	34 20	22 -3	13 3	26 -5	46 12	43 30	31.0 10.4			
INWOOD 2W	MAX MIN	13 -13	25 -10	32 -2	27 0	44 20	37 25	35 25	41 30	40 22	41 30	30 15	30 20	30 16	17 3	32 -4	27 17	38 9	33 0	29 14	37 17	31 6	38 10	32 -6	10 0	11 -2	19 13	39 23	36 23	32.7 12.3		
IOWA CITY AP CAA	MAX MIN	28 -14	20 -7	39 -8	41 -8	41 26	42 30	38 29	35 33	39 25	42 28	35 20	36 27	31 27	30 26	26 16	30 5	41 1	35 9	26 3	39 13	34 24	30 17	29 14	14 -5	-12 -12	2 2	25 25	28.8 6.7			
IOWA FALLS 1N	MAX MIN	19 0	17 -6	30 -4	32 -5	37 17	39 27	35 24	34 27	40 27	39 2	32 18	27 7	25 17	27 17	24 18	22 9	36 -2	31 -4	19 9	34 -8	29 4	28 17	13 -1	13 -10	-2 -2	20 -20	38 6	38 22	31.9 13.2		
JEFFERSON	MAX MIN	20 -1	21 -1	32 3	31 -1	40 22	39 29	33 25	35 30	43 18	42 27	37 19	36 25	28 19	27 19	26 12	30 3	40 9	37 17	27 3	42 12	35 22	33 10	30 14	15 -2	13 2	20 -5	40 12	42 28	36.8 19.2		
KEOKUK L D 19	MAX MIN	22 7	37 7	44 16	43 19	42 23	48 34	41 33	41 32	38 31	42 29	47 25	40 25	30 30	34 29	32 26	36 16	46 16	34 21	37 15	47 15	47 21	42 21	30 20	15 5	16 5	25 0	40 0	40 17	38.1 18.8		
KEOSAUQUA STATE PK	MAX MIN	28 -4	29 9	45 10	46 18	45 31	43 28	37 33	38 26	45 31	45 24	38 32	35 30	35 25	33 25	33 19	37 13	48 15	41 22	37 12	50 20	45 28	32 20	38 24	31 1	14 7	29 -3	45 14	44 34	36.3 16.3		
KNOXVILLE 2W	MAX MIN	25 -6	25 1	40 8	37 4	42 29	42 28	40 30	36 33	48 22	44 31	39 26	34 28	34 24	29 21	32 19	32 4	45 12	43 19	35 5	51 16	47 25	33 14	34 20	20 -2	14 4	25 -5	45 14	46 32	31.7 10.9		
LAKE CITY	MAX MIN	21 -5	21 -7	32 5	30 1	43 21	38 27	33 26	33 29	45 20	42 28											29.0 8.9										
LAKE PARK	MAX MIN	15 -12	18 -8	28 -3	27 -1	39 18	35 21	32 19	33 27	40 17	39 28	35 14	25 18	24 12	27 16	27 7	34 2	38 17	22 3	33 11	36 15	31 8	36 7	33 -7	7 -5	10 -14	16 9	36 24	36 24	36.8 18.0		
LAMONI	MAX MIN	21 -3	21 0	38 5	45 18	39 33	45 31	38 29																								

DAILY TEMPERATURES

Table 5-Continued

IOWA
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Station	Day of month																															Average				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
LOGAN	MAX 17	20	31	38	41	41	36	37	45	45	38	32	28	27	26	31	42	38	40	49	35	36	34	20	17	25	48	46							34.1	
	MIN -10	-4	-5	-5	31	23	26	31	21	29	31	25	17	17	4	-3	15	11	1	19	22	8	18	3	7	3	18	29							13.6	
MAPLETON 5NW	MAX 20	20	29	32	40	39	36	37	44	44	31	27	24	27	21	30	43	32	32	43	32	34	30	16	16	23	44	47							31.9	
	MIN -7	-8	-2	-5	27	25	25	31	19	19	19	23	16	16	3	-6	13	11	-1	15	21	7	15	-2	1	-3	15	26							12.2	
MAQUOKETA 5E	MAX 26	20	36	36	38	37	39	38	35	41	38	36	30	30	28	29	35	32	25	28	29	29	28	19	9	14	34	37							30.6	
	MIN -3	10	2	8	22	33	28	31	27	25	17	33	25	22	15	10	7	15	4	10	24	18	15	-7	-3	-11	1	29							14.5	
MARSHALLTOWN	MAX 22	19	33	34	41	40	39	34	42	41	39	32	26	27	25	27	39	37	26	38	36	31	25	18	10	21	41	34							31.3	
	MIN -10	-4	-4	-8	20	30	26	32	18	28	20	26	21	20	18	3	-5	12	-2	3	21	11	18	-8	1	-14	5	27							10.9	
MASON CITY 3N	MAX 20	17	28	29	37	39	34	34	34	35	29	26	23	29	25	28	32	29	20	30	25	29	23	7	11	19	34	33							27.1	
	MIN -11	-3	-4	-4	18	26	23	22	-1	12	14	14	17	18	9	0	-3	8	-4	7	19	3	7	-11	-2	-11	5	24							8.9	
MASON CITY AP CAA	MAX 18	17	28	28	36	36	33	33	30	35	23	26	21	25	22	24	32	31	20	29	24	28	25	4	7	20	39	38							26.1	
	MIN -10	-4	2	-1	20	23	24	4	-4	10	10	15	15	19	6	0	-1	1	-7	5	9	2	-3	-12	-14	-14	4	19							4.2	
MILFORD 4NW	MAX 17	18	28	28	40	37	32	34	42	40	29	26	23	27	28	37	39	35	26	37	26	37	31	8	10	16	37	36							29.5	
	MIN -11	-8	-3	0	19	22	20	25	11	26	14	18	13	17	6	5	16	7	10	11	16	5	5	-7	-2	-16	8	22							8.9	
MILLERTON	MAX 27	24	41	43	39	46	38	35	48	47	40	34	32	25	25	33	47	43	40	53	47	35	37	26	16	27	47	46							37.2	
	MIN -7	0	8	15	28	31	28	31	21	27	22	30	22	20	17	4	11	21	6	18	23	13	20	0	6	-3	10	31							16.2	
MISSOURI VALLEY	MAX 24	26	36	46	42	46	37	38	50	49	38	33	28	29	28	26	47	37	41	49	32	38	33	21	22	29	52	48							36.8	
	MIN -9	-6	14	-1	33	23	29	31	25	29	21	28	19	18	4	-2	20	13	4	22	24	8	19	5	8	6	20	18							15.1	
MOUNT Ayr 2N	MAX 21	24	39	42	40	44	36	37	46	46	38	34	32	25	25	32	46	42	-1	55	49	36	36	31	20	26	50	47							37.1	
	MIN -8	-1	8	14	34	30	28	32	21	26	23	31	21	26	20	16	2	10	18	7	24	25	13	22	4	8	0	17	32							17.0
MOUNT PLEASANT	MAX 29	24	42	43	43	41	41	37	41	45	39	35	33	33	27	33	45	39	40	45	42	31	38	27	14	25	41	42							36.3	
	MIN 1	11	8	18	29	34	32	32	27	30	24	31	29	25	23	12	11	17	9	19	29	21	20	-2	4	-10	11	32							18.8	
MUSCATINE NO 1	MAX 26	24	41	43	42	41	40	35	38	44	39	35	32	32	29	32	42	39	28	39	35	33	31	21	15	22	39	39							34.1	
	MIN 1	11	8	14	28	36	32	32	27	28	22	30	28	28	20	10	7	15	6	16	29	20	20	-2	2	-10	5	33							17.7	
NEW HAMPTON	MAX 21	19	27	31	36	40	33	33	33	37	27	27	23	27	27	26	33	30	22	28	24	31	23	11	12	20	33	37							27.5	
	MIN -15	-9	-12	-8	13	22	18	22	2	15	3	7	12	13	16	-7	-7	1	-9	1	11	2	4	-20	-20	-20	-5	15							1.6	
NEWTON	MAX 21	24	36	35	41	41	35	36	42	45	35	33	31	28	28	27	40	37	28	43	39	33	30	16	14	23	39	43							33.0	
	MIN -5	1	6	9	27	30	30	33	19	30	20	28	23	21	18	4	11	18	3	14	22	13	15	-6	-2	-10	11	29							14.7	
NORTHWOOD	MAX 22	18	28	32	36	39	33	35	32	39	28	25	23	28	24	29	31	28	20	29	26	27	25	9	12	17	32	36							27.3	
	MIN -12	-1	-1	-1	17	25	21	27	-2	13	10	10	16	18	7	1	4	7	-4	7	15	5	9	-12	-3	-8	4	23							7.0	
NORWICH 2E SCS FARM	MAX 24	22	39	45	41	47	41	38	48	46	42	34	33	24	24	33	48	34	40	56	51	38	37	32	20	30	56	50							38.3	
	MIN 3	2	6	12	32	30	29	33	22	27	25	32	19	19	11	2	18	15	5	28	27	15	22	8	10	5	20	32							18.2	
OAKLAND 2E	MAX 20	22	37	42	40	45	37	36	47	45	35	32	30	25	24	29	42	39	35	51	39	35	33	24	18	25	50	41							34.9	
	MIN -11	-4	3	7	32	28	28	32	19	26	21	27	18	18	12	-2	13	13	0	20	24	12	18	5	8	3	18	30								14.9
OELWEIN	MAX 20	25	30	34	38	38	35	34	34	38	31	29	26	28	24	25	36	32	20	31	25	28	25	12	12	18	34	38							28.6	
	MIN 2	0	-1	0	23	30	27	31	18	27	12	19	20	21	15	4	3	10	1	10	19	14	12	-10	-2	-8	3	23							11.5	
ONAWA	MAX 21	23	31	34	43	43	37	39	46	46	34	30	27	31	24	27	45	38	38	43	32	30	34	20	21	25	45	45							33.6	
	MIN -12	-10	4	-10	31	21	26	31	22	28	19	25	17	17	0	-10	14	5	-2	18	21	4	14	2	7	10	17	28							1.3	
OSAGE	MAX 18	19	29	29	36	37	33	32	33	38	37	25	25	26	24	28	32	30	19	29	24	28	24	10	9	19	32	37							27.3	
	MIN -8	-2	-4	1	17	27	24	30	-3	14	10	12	17	19	11	3	1	9	-2	7	18	7	10	-13	-4	-7	3	25							7.9	
OSCEOLA	MAX 24	25	39	42	40	43	38	36	47	47	41	33	31	25	28	36	47	40	37	51	46	36	34	24	18	24	46	45							36.5	
	MIN -2	4	6	15	29	29	28	32	22	28	23	29	22	18	15	7	11	18	6	18	23	12	20	1	6	-1	13	30							16.5	
OSKALOOSA	MAX 23	24	41	32	44	39	36	35	45	44	36	33	31	26	27	31	43	41	33	48	41	32	34	20	14	25	42	42							34.4	
	MIN -12	4	5	5	27	33	29	33	24	31	23	31	26	23	20	5	6	20	7	16	27	17	20	-3	4	-9	12	31							16.3	
OTTUMWA AP CAA	MAX 22	25	41	38	41	40	37	35	45	44	33	34	30	26	26	32	43	36	31	47	42	31	34	14	12	24	43	42							33.9	
	MIN -6	5	6	12	30	31	32	32	24	30	23	27	25	24	15	8	14	9	18	23	16	14	-2	-4	-6	12	27								16.2	
PERRY 2SE	MAX 22	23	37	35	40	40	36	34	45	43	34	31	29	25	26	34	39	33	29	44	35	35	31	15	12	20	39	42							32.4	
	MIN -10	-6	-2	-4	20	28	27	31	19	29	21	26	20	20	18	-2	3	16	1	11	22	10	15	-3	4	-9	7	29							12.2	
POCABONTAS 2SE	MAX 20	13	22	28	36	36	33	33	42	41	35	25	32	26	26	35	36	30	30	35	30	34	31	14	28	26	40	40							31.0	
	MIN -11	-10	-2	-6	25	26	22	23	19	31	1																									

DAILY TEMPERATURES

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Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SPENCER 1N	MAX	19	18	25	29	39	36	33	33	42	39	25	25	21	27	29	36	40	29	25	36	26	38	24	9	7	18	38	35	28.6 6.2			
	MIN	-19	-12	-12	-13	25	22	20	17	10	21	16	18	15	15	6	-1	17	9	5	12	15	8	-1	-5	-18	-22	8	17				
STATE CENTER	MAX	26	19	31	33	41	40	35	36	41	41	34	33	26	29	27	27	39	34	26	40	36	30	28	13	11	19	38	40	31.2 15.6			
	MIN	3	5	6	12	25	32	29	31	23	31	20	26	21	19	19	9	15	14	5	11	20	13	13	-5	3	-4	13	27				
STORM LAKE 2E	MAX	20	16	24	25	36	37	32	34	40	41	34	24	23	25	26	30	38	35	25	37	32	33	30	11	7	18	37	41	29.0 11.0			
	MIN	-7	-4	3	2	14	26	23	31	19	30	17	18	14	15	8	5	10	12	4	11	19	8	11	-4	2	-9	5	25				
TINGLEY	MAX	24	27	40	41	39	47	37	37	47	47	41	34	25	24	25	33	43	33	40	40	41	37	35	25	19	28	48	40	35.9 12.1			
	MIN	-12	-4	2	10	27	25	24	28	18	22	20	25	20	15	10	-3	10	12	0	16	20	8	16	-2	2	-6	10	26				
YIPTON	MAX	28	22	40	40	42	42	41	36	38	44	36	34	34	33	30	35	41	27	27	36	36	33	26	15	20	22	40	38	33.4 15.3			
	MIN	-6	6	2	8	26	33	33	26	29	17	26	30	24	16	6	4	16	12	12	20	20	15	-6	2	-8	4	26					
TOLEDO	MAX	23	24	37	38	41	40	35	35	43	43	34	33	29	27	27	34	42	34	24	40	36	34	27	14	9	24	38	38	32.3 12.8			
	MIN	-5	3	5	0	22	30	27	32	20	30	19	25	22	21	18	4	2	13	-2	9	21	12	14	-8	0	-12	8	28				
TRIPOLI	MAX	26	21	32	35	38	41	38	35	34	42	36	29	27	29	27	30	37	33	25	34	31	31	28	14	11	23	35	38	30.7 10.0			
	MIN	-2	-4	-3	-6	21	29	24	31	18	24	14	19	19	20	15	-1	0	11	-3	10	18	10	12	-12	-3	-11	2	27				
VINTON	MAX	28	20	35	38	40	41	38	35	37	38	35	34	31	26	26	24	40	34	22	36	35	29	25	16	8	19	36	39	30.9 11.5			
	MIN	-11	-1	3	-4	22	32	25	33	20	29	17	26	22	22	15	4	-4	12	-4	5	23	13	14	-9	0	-11	-2	30				
WASHINGTON	MAX	25	24	41	42	42	41	39	36	40	44	34	35	31	31	29	32	44	37	29	44	38	31	31	23	16	24	44	41	34.6 16.7			
	MIN	-1	9	7	16	28	31	31	32	25	30	22	29	27	25	20	9	8	14	5	15	27	19	20	-5	2	-13	6	30				
WATERLOO	MAX	22	19	31	33	39	39	35	35	34	39	32	30	27	28	27	26	36	33	21	35	30	28	25	13	10	19	38	38	29.4 10.2			
	MIN	-5	-1	-2	-5	21	29	24	30	16	25	14	20	20	20	18	0	-2	11	-3	8	19	10	13	-11	-1	-13	4	27				
WAUKEE	MAX	22	23	36	35	41	42	40	36	47	45	40	33	32	26	26	30	44	39	32	48	40	32	32	22	13	20	42	41	27.9 15.8			
	MIN	-6	-1	1	6	25	31	30	32	22	30	30	29	22	21	16	6	7	18	4	13	24	14	22	-3	4	2	12	30				
WAUKON	MAX	20	20	26	31	38	40	34	33	33	37	28	27	23	25	24	33	29	29	21	25	23	29	26	9	24	25	33	35	27.9 10.6			
	MIN	2	0	-2	11	21	29	24	30	18	20	6	13	18	12	16	8	6	18	5	7	18	11	9	-16	-6	-6	2	24				
WEBSTER CITY	MAX	19	18	29	31	38	37	34	35	39	42	35	28	26	27	27	27	37	34	23	36	31	31	28	13	11	20	37	40	29.8 7.4			
	MIN	0	-7	-6	-8	22	28	25	25	-4	14	7	20	19	19	12	-4	-1	12	-9	5	20	2	11	-7	0	-24	9	26				
WILLIAMSBURG	MAX	18	23	41	37	41	39	36	34	36	42	34	34	34	34	26	30	39	36	25	38	35	30	29	18	12	20	39	41	32.2 13.4			
	MIN	-10	2	3	4	23	31	29	31	20	29	19	27	22	23	18	5	2	13	1	11	25	16	16	-6	-1	-11	5	28				
WINTERSET	MAX	25	29	40	39	40	45	40	35	49	49	40	32	32	26	29	39	45	43	36	50	47	40	35	27	18	25	45	45	37.3 14.5			
	MIN	-7	-1	5	7	28	30	28	32	20	28	23	28	20	20	14	2	9	13	0	12	24	10	18	-1	5	-4	12	30				
WOODWARD 7N	MAX	20	20	32	33	28	42	38	35	44	41	37	27	31	27	26	27	43	40	27	45	37	32	30	17	14	20	42	42	32.0 14.4			
	MIN	-4	-2	4	2	34	28	28	32	26	30	27	36	30	10	12	-1	9	15	2	12	24	9	15	-4	3	-12	10	28				

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7 AM	16	16	13	13	23	30	30	32	22	29	23	28	28	29	29	27	26	28	24	25	30	25	26	25	25	23	24	31	25.0 26.9 27.5			
	12 M	18	18	20	19	30	32	31	32	31	32	28	29	29	29	29	27	26	28	25	26	29	26	28	28	25	25	24	25		31		
	7 PM	18	17	20	21	31	32	32	32	32	32	28	29	29	29	29	28	29	28	28	26	30	28	28	28	25	25	28	30				
2 1/4 Inches	7 AM	17	18	16	15	23	30	30	32	23	29	23	28	28	29	29	26	25	28	24	25	29	25	27	25	25	24	25	30	25.3 26.9 27.7			
	12 M	19	19	20	20	29	31	31	32	30	32	28	29	29	29	29	27	26	28	25	26	28	26	28	25	26	25	26	31				
	7 PM	20	19	20	22	31	32	32	32	32	28	29	29	29	29	29	27	29	28	26	30	28	28	28	25	26	26	29	30				
4 Inches	7 AM	18	18	16	16	22	29	29	31	26	30	27	28	28	29	29	28	27	28	26	26	29	27	28	27	26	26	26	30	26.1 26.7 27.4			
	12 M	19	18	18	18	26	30	30	31	29	31	28	29	29	29	29	28	27	28	26	26	29	27	28	27	26	26	26	30				
	7 PM	20	19	20	21	29	30	31	31	30	31	29	29	29	29	29	28	28	28	27	28	29	28	28	27	26	26	27	30				
8 Inches	7 AM	20	19	18	19	22	27	28	30	29	30	30	29	29	29	29	28	28	28	27	27	28	28	28	28	27	26	26	28	26.6 26.8 27.0			
	12 M	20	19	18	19	23	28	29	30	29	30	29	29	29	29	29	28	28	28	27	27	28	28	28	28	27	26	27	30				
	7 PM	20	20	20	20	25	28	29	30	29	30	30	29	29	29	29	28	28	28	27	27	28	28	28	28	27	26	27	30				
20 Inches	7 AM	28	27	27	26	27	28	29	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	29.5 29.8 29.6			
	12 M	28	28	27	27	28	29	30	30	30	31	30	31	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30				
	7 PM	27	27	26	27	28	29	30	30	30	30	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30				
40 Inches	7 PM	33	33	33	33	33	33	33	33	33	33	32	33	32	33	33	32	33	32	32	32	33	33	33	32	32	32	33	33	32.7 39.6			
	7 PM	41	41	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40	39	39	39	39	39	39	39	39	39	39	39				
72 Inches	7 AM	-3	5	1	3	28	31	30	33	21	32	20	28	22	21	19	6	6	24	2	16	24	10	25	-4	3	-12	10	29	15.4 25.4 22.9			
	12 M	14	14	29	25	39	37	33	33	38	39	24	29	23	25	22	21	31	17	21	31	23	25	25	4	8	16	30	34				
	7 PM	6	4	19	21	35	33	33	32	34	36	27	28	22	26	18	14	33	18	17													

Table 7

SNOWFALL AND SNOW ON GROUND

IOWA
FEBRUARY 1950

Station		Day of month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Algona	SNOWFALL SN ON GND	7	7	7	7	6	5	4	1.5	4	3	3	4.0	0.8	7	7	6	6	6	5	5	5	0.2	0.1	3.6	8	7	6				
Ama 3 SW	SNOWFALL SN ON GND	3	3	3	2	T	T	T	T	T	T	0.4	7.5	0.5	8	8	8	7	7	T	7	6	5	5	4	2.0	T	2.0	8	7	5	
Atlantic AP CAA	SNOWFALL SN ON GND	2	4	2	T				T			1.7	2.6	1.3	T			T		T		T	0.3	0.3	T							
Burlington WB AP	SNOWFALL SN ON GND	1	1	T	T							0.2	0.5	T	0.1			T		T		T	1.1	2.6	0.1	1.7	4	2				
Castana 4 E	SNOWFALL SN ON GND	6	5	3	2	T	T	T	T	T		1.2	10.3	1.1	1	11	12	12	10	5	4	3	T	T	T	1.1	T					
Cedar Rapids No. 1	SNOWFALL SN ON GND	T	4	3	3	2	2	1	1	1	1	T	3.3	1.5	0.8	0.1					0.1		T		2.3	1.6	0.9	6	4			
Cherokee	SNOWFALL SN ON GND	5	5	4	3	1	T	T	T	T	T	1.0	2.0	T	2	2	T	T	T	T	T	T	0.5	1.0	3.5	T						
Clinton No. 1	SNOWFALL SN ON GND											3.8	0.1	0.4	3	3	T		T		T		1.1	2.4	2.0	7	3	2				
Council Bluffs 5 NE	SNOWFALL SN ON GND											0.2	4.5	1.0	5	6							T	0.5	1							
Davenport WB City	SNOWFALL SN ON GND	1	1	T	T	T						0.4	1.6	T	0.1	1	1	T	T	T	T	0.3	0.1	3.6	T	2.9	6	4	1			
Decorah 2 S	SNOWFALL SN ON GND								7.5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Denison 1 S	SNOWFALL SN ON GND	3	3	2	1	1						4.0	T	4	4	4	4	3	3	2	1	1	1	1	1	1	1	1	1	1	1	
Des Moines WB AP	SNOWFALL SN ON GND	5	4	3	2	2	1	1	T	T	T	5.4	6.7	0.1	T			T		T		T	1.4	0.1	1.6	T						
Dubuque WB City	SNOWFALL SN ON GND	T	2	2	1	1	1	T	T	T	0.2	8.1	0.1	0.1	6	6	6	5	4	4	4	4	0.2	0.7	0.7	6	6	6	4			
Fort Dodge	SNOWFALL SN ON GND	5	5	5	5	4	2	1	T	2	1	1	1.0	3.0	4.0	2	5	9	9	8	7	5	5	5	4	4	4	2.0	6.0	T		
Grinnell	SNOWFALL SN ON GND	8	8	8	8	6	3	1	T	T	T	T	8.0	2.0	0.5	8	10	11	11	8	6	6	3	3	2	2	3.0	5.0	T			
Guthrie Center	SNOWFALL SN ON GND	2	2	1					1.0	1		0.2	7.0	7	7	7	7	5	5	3	T		1.0	0.5	0.8	2	2	2				
Iowa City AP CAA	SNOWFALL SN ON GND	5	4	3	3	2	1	1				1.6	2.4	0.2	0.3	4	4	4	4	3	3	3	2	0.2	0.5	3.8	T	5.1	9	5	2	
Iowa Falls 1 N	SNOWFALL SN ON GND	6	6	6	5	4	3	3	1.0	3.0	4	7	5	5	5	7	10	10	10	8	8	8	7	6	6	6	2.0	2.5	3.5	12	10	
Lamoni AP CAA	SNOWFALL SN ON GND	5	2	2	T	T						2.3	3.1	T	T	5	5	5	3	2	2	T	T	0.4	1.6	T	T	1				
Maquoketa 5 E	SNOWFALL SN ON GND	4	4	2	1	T						4.5	1.0	0.5	5	6	6	6	6	6	6	6	5	5	5	0.5	3.0	3.0	11	10	5	
Marshalltown	SNOWFALL SN ON GND	7	7	7								13.6	1.0	14	15	15	15	15								2.0	5.5	10	16			
Mason City AP CAA	SNOWFALL SN ON GND	3	3	3	3	3	1	1	3.9	5	4	3	3	3	3	5	7	7	7	7	7	7	7	7	7	7	0.1	T	1.5	9	8	7
Norwich 2 E SCS Fm	SNOWFALL SN ON GND	3	2	2								8.0	8	8	8	7	6	5	4				0.8	T	1	1	1	T				
Oelwein	SNOWFALL SN ON GND							1.5	1.0			5.0	7	7	1.0	8						0.5	0.5									
Osceola	SNOWFALL SN ON GND	4	3	3	1	T	T	T				6.0	6	6	5	5	3	2	1	T		0.8	1.3	1.7	0.2	2	T					
Oskaloosa	SNOWFALL SN ON GND	6	6	5	3	1	1	1	T	T	T	4.0	0.3	0.2	4	4	4	4	2	2	2	2	1	2	1	5	1.0	0.2	6	6	1	
Ottumwa AP CAA	SNOWFALL SN ON GND	3	3	3	2	1	T	T				1.0	1.6	T	0.1	2	2	2	2	1	1	1	1	0.5	0.3	2.9	0.3	0.7	T			
Rock Rapids	SNOWFALL SN ON GND	7	7	7	7	4	2	1	T	T	T	1.0	3.0	0.5	1	4	5	4	4	2	1	1	1	1	1	1	1.0	7.0	8	4	2	
Saratoga 2 E	SNOWFALL SN ON GND								4.5	6			3.0	7	7							T	T									
Shenandoah	SNOWFALL SN ON GND	2	2									7.0	7	6	6	5	3	1					0.5	1								
Sioux City WB AP	SNOWFALL SN ON GND	5	5	3	3	2	1	1	T	T	T	3.3	1.6	0.2	T	3	5	5	5	5	3	3	2	1	1	1	0.9	0.2	1.6	2	1	1
Spencer 1 N	SNOWFALL SN ON GND											T	T	0.1	0.9	1	1	1	1	1	1	1	1	1	1	1	4.0	5	4	3		
Waterloo	SNOWFALL SN ON GND								2.0	1	1	1	-	3.0	3.5	0.5	4	8	9						1.2	1.4	-	-	6			

See reference notes following Station Index.

STATION INDEX

IOWA
FEBRUARY 1950

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0054	Union	9 41 02	94 12 1200	6P	6P	Fred E. Lamb	2 3 5		Morse 4 mi. SW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4	
Albia	0088	Plymouth	1 42 49	96 33 1153	6P	6P	Orland C. Moore	2 3 5		Mount Airy 2 mi. N	5769	Ringgold	9 40 44	94 14	1214	6P	6P	H. L. Cornelison	2 3 4 5		
Albia	0112	Monroe	6 41 02	92 48 949	6P	7P	Arthur L. Freed	2 3 5 7		Mount Pleasant	5796	Henry	21 40 57	91 32	730	6P	6P	A. M. Patterson	2 3 4 5		
Albia	0133	Kossuth	6 43 04	94 14 1200	7P	7P	Harry B. Nolte	2 3 5 7		Woodbury	5823	Woodbury	11 42 29	96 04		7P	7P	F. J. Bauerbach	2 3 4 5		
Albia	0149	Wayne	9 40 42	93 23			Herman E. Roddy	2 3 5		Muscatine	5837	Muscatine	14 41 28	91 03	680	7P	7P	Robert B. Hagy	2 3 4 5		
Albia	0157	Butler	4 42 46	92 47 1060	7P	7P	D. Tellinghuisen	2 3 5		Muscatine No. 1	5842	Muscatine	14 41 25	91 03	546	7P	7P	CLOSED	2-25-50		
Albia	0173	Buena Vista	30 42 40	95 18 1513	7P	7P	F. Edna Allen	2 3 5		Muscatine No. 2	5847	Muscatine	14 41 30	91 03		7P	7P	William A. Cory	2 3 5		
Albia	0181	Sioux	7 42 59	96 01 1305	7P	7P	W. A. Slagle	2 3 5		Muscatine 6 mi. N	5872	Floyd	4 42 59	92 34	990	7P	7P	Loddy Hrdlicka	2 3 5		
Albia	0205	Story	21 42 00	93 39 1094	7P	7P	Charles M. Brown	2 3 4 5 6 7		New Hampton	5952	Chickasaw	37 43 04	92 19	1156	7P	7P	Al A. Scheel	2 3 5		
Albia	0213	Jones	37 42 07	91 18 873	7P	7P	State Reformatory	2 3 5		Newton	5992	Jasper	21 41 42	93 04	950	7P	7P	Ernest E. Andrews	3 4		
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59 1110	6P	7A	Roy L. Pancelly	2 3 5		North English	6076	Iowa	4 41 28	92 05	789	7P	7P	Charles A. Walker	2 3 5		
Atlantic AP CAA	0369	Cass	16 41 24	95 02 1192	MID	MID	Always Com. Sta.	2 3 4 5 7		Northwood	6103	Worth	4 43 27	93 13	1222	7P	7P	Soil Cons. Service	2 3 4 5 6 7		
Atlantic 2 mi. S	0385	Audubon	16 41 42	94 57 1297	6P	6P	Ralph E. Kibby	2 3 5		Norwich SCS Exp. Sta.	6118	Page	22 40 45	95 12	1132	6P	6P	Hard D. Reincke	2 3 5		
Atlantic 3 mi. S	0389	Des Moines	21 40 46	91 17 522	7P	7P	Glen Wood	2 3 5		Oakland 2 mi. E	6151	Pottawattamie	16 41 19	95 23	1150	6P	6P	Ed. Kadara	3 4		
Atlantic 4 mi. S	0463	Kossuth	6 43 18	94 13 1200	7P	7P	Oay D. Bart	2 3 5		Oasis	6186	Johnson	10 41 40	91 23	1036	6P	6P	Milo M. Frame	2 3 5 7		
Atlantic 5 mi. S	0493	Fremont	8 42 02	94 08			R. L. Kilpatrick	2 3 5		Oelwein	6200	Fayette	27 42 40	96 06	1050	7P	7P	W. J. Oliver	2 3 5		
Atlantic 6 mi. S	0549	Boone	28 40 41	94 44 1215	6P	6P	H. J. Chambers	2 3 5		Onawa	6243	Monona	4 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5		
Atlantic 7 mi. S	0576	Taylor	10 41 54	92 17 855	6P	7P	U. S. Engineers	2 3 5		Osage	6305	Mitchell	6 41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5 7		
Atlantic 8 mi. S	0600	Beaumont	14 42 16	90 25 603	7P	7A	U. S. Engineers	2 3 4 5		Osceola	6316	Clarke	6 41 17	92 40	813	6P	6P	Cliff. Bergtresser	2 3 5 7		
Atlantic 9 mi. S	0606	Jackson	18 40 36	94 29 1081	6P	6P	Glenn A. Cobb	2 3 5		Oskaloosa	6327	Wahaska	6 41 08	92 27	842	MID	MID	Always Com. Sta.	2 3 4 5 7		
Atlantic 10 mi. S	0745	Taylor	8 40 47	92 26 825	7P	7P	Mrs. Leo Foster	2 3 5		Ottumwa AP CAA 5 mi. N	6389	Wapello	6 41 00	92 24	820	7P	7P	Winfrey Kinser	3		
Atlantic 11 mi. S	0807	Boone	6 42 04	93 53 1126	6P	6P	E. G. Kolb	2 3 5		Pella	6391	Warren	6 41 24	92 55	870	7P	7P	Arthur F. Terzisa	2 3 5		
Atlantic 12 mi. S	0823	Hancock	10 43 04	93 49 1234	6P	6P	Rev. B. A. Rust	2 3 5		Perry 2 mi. SE	6566	Dallas	20 41 51	94 00	975	7P	7P	Eugene N. Hattie	2 3 5		
Atlantic 13 mi. S	1063	Des Moines	14 40 47	91 08 695	MID	MID	U.S. Weather Bureau	2 3 4 5 7		Pocahontas	6719	Pocahontas	6 42 44	94 40	1228	6P	6P	Thomas A. Mc Mahon	2 3 5		
Atlantic 14 mi. S	1233	Carroll	20 42 04	94 52 1280	7P	7A	Ben H. Schenkelberg	2 3 5		Red Oak	6800	O'Brien	11 43 05	95 38	1517	6P	6P	R. A. Ballard	2 3 5		
Atlantic 15 mi. S	1257	Dubuque	12 42 18	91 00 880	7P	7P	C. J. Weiers	2 3 4 5 7		Red Oak 1 mi. NW	6941	Montgomery	15 41 01	95 13	1077	6P	6P	Clarence W. Totty	2 3 5		
Atlantic 16 mi. S	1277	Monona	11 42 04	95 49	7P	7P	Bob Zimmerman	2 3 5 7		Remsen	6975	Plymouth	7 42 49	95 58		7P	7P	Mrs. Z. M. Cozad	3 4		
Atlantic 17 mi. S	1300	Black Hawk	4 42 32	92 27 875	7P	7P	E. J. Cable	2 3 5 7		Ringsted	7056	Emmet	6 43 18	94 30		7P	7P	Municipal P. & L. Pl.	3 4		
Atlantic 18 mi. S	1319	Linn	4 41 59	91 39 813	7P	7A	John T. Wurster	2 3 5 7		Riverton	7085	Fremont	16 40 41	95 35	920	7P	7P	William Stubbs	3		
Atlantic 19 mi. S	1324	Appanoose	5 40 43	92 53 1013	7P	7P	Earl McIntire	2 3 4 5		Rock Rapids	7147	Lyon	1 43 26	96 10	1341	7P	7P	George Raveling	2 3 5 7		
Atlantic 20 mi. S	1394	Lucas	5 41 00	93 15 940	MID	MID	U.S. Weather Bureau	2 3 4 5		Rockwell City	7181	Calhoun	20 42 24	94 37	1223	7P	7P	F. C. Heitelbacher	2 3 4 5		
Atlantic 21 mi. S	1402	Floyd	4 43 04	92 40 1013	MID	MID	U.S. Weather Bureau	2 3 4 5		Sac City	7312	Sac	20 42 26	94 59	1274	6P	6P	W. Floyd Walver	2 3 5		
Atlantic 22 mi. S	1442	Cherokee	11 42 45	93 13 1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7		Saint Ansgar 2 mi. S	7326	Mitchell	4 43 21	92 55		6P	6P	Irvin L. Halverson	3 4		
Atlantic 23 mi. S	1528	Cedar	4 41 33	91 03	7P	7A	Ronald W. Harness	2 3 5		Saint Charles	7340	Madison	7 43 16	93 47		7P	7P	Rose E. Hise	3 4		
Atlantic 24 mi. S	1533	Page	17 40 44	95 01 1004	7P	7A	Walter L. Weakland	2 3 5		Sanborn	7386	O'Brien	22 42 22	92 22		6P	6P	James A. Verploegh	2 3 5		
Atlantic 25 mi. S	1543	Wright	2 42 44	93 44 1170	7P	7P	George Reeder	2 3 5		Saratoga 2 E	7410	Howard	4 42 54	95 13		6P	6P	Don A. Fairchild	2 3 5 7		
Atlantic 26 mi. S	1635	Clinton	14 41 50	90 11 589	7P	7P	Samuel W. Williams	2 3 5 7		Sheffield	7572	Franklin	4 42 54	95 13		7P	7P	Richard J. Galvin	3 4		
Atlantic 27 mi. S	1640	Clinton	14 41 50	90 11	7P	7A	David M. Swift	2 3 5 7		Sheldon	7594	O'Brien	7 43 10	95 51	1418	7P	7P	Rosa E. Forward	2 3 5		
Atlantic 28 mi. S	1731	Linn	10 41 17	91 22 595	6P	6P	Alice Best	2 3 5		Shell Rock	7602	Butler	4 42 43	92 35		6P	6P	Elmer J. Apfel	3 4		
Atlantic 29 mi. S	1793	Carroll	20 41 51	94 39	7P	7A	Charles W. Smith	2 3 5		Shenandoah	7613	Page	16 40 46	95 23	974	6P	6P	Earl May Reed Co.	2 3 5 7		
Atlantic 30 mi. S	1833	Adams	17 43 00	94 45 1285	7P	7A	W. Earl Gibson	2 3 5		Sibley	7664	Osceola	1 43 24	95 45	1494	6P	6P	R. D. Steward	2 3 5		
Atlantic 31 mi. S	1888	Pottawattamie	10 41 20	95 49	7P	7A	Mrs. M. O. Crane	2 3 5		Sidney	7669	Fremont	16 40 45	95 38	1050	6P	6P	J. M. Shearer	2 3 5		
Atlantic 32 mi. S	1889	Pottawattamie	10 41 20	95 49	7P	7A	Perry C. Crandall	2 3 5 7		Sioux Center	7678	Keokuk	21 41 20	92 12	780	7P	7A	Grace L. Sanderson	2 3 5		
Atlantic 33 mi. S	1954	Howard	23 43 22	92 07 1285	6P	6P	Guy D. Humphrey	2 3 5		Sioux Falls	7703	Plymouth	15 42 36	96 24		6P	6P	Richard J. Kroon	3 4		
Atlantic 34 mi. S	1962	Union	19 41 03	94 22 1300	7P	7A	Nellie Spangler	2 3 5		Sioux City 8 mi. N	7708	Woodbury	15 42 23	96 23	1093	MID	MID	U.S. Weather Bureau	2 3 4 5 7		
Atlantic 35 mi. S	2007	Cass	17 41 18	94 55 1225	6P	6P	Carl E. Pollock	2 3 5		Sioux City 9 mi. N	7713	Woodbury	15 42 32	96 25		7P	7P	Dan McKelvey	2 3 5		
Atlantic 36 mi. S	2028	Ida	11 42 30	95 39 1350	7P	7P	H. P. Lasher	2 3 5		Sioux City 4 mi. N	7726	Buena Vista	11 42 53	95 08	1275	7P	7P	W. A. Sorenson	2 3 5		
Atlantic 37 mi. S	2037	Bumoldt	6 42 44	94 12 1133	7P	7P	H. S. Brandsgard	2 3 5 7		Sioux Rapids	7774	Monona	15 41 59	95 46		MID	MID	John T. Wade	3 4		
Atlantic 38 mi. S	2089	Scott	14 41 30	90 38 579	MID	MID	U.S. Weather Bureau	2 3 5 7		Soldier	7844	Clay	11 43 10	95 13	1331	MID	MID	Radio Station KICD	2 3 4 5 7		
Atlantic 39 mi. S	2110	Winnebago	24 43 18	91 48 859	5P	5P	Walter Bates	2 3 5		Spencer 1 mi. N	7855	Winnebago	11 43 12	91 57		7P	7P	Louis J. Benda	3 4		
Atlantic 40 mi. S	2112	Winnebago	24 43 13	91 47 880	7P	7P	Charles Carlsson	2 3 5 7		Spillville	7925	Marshall	10 42 01	93 10	1068	7P	7P	Otha A. Sweet	2 3 5		
Atlantic 41 mi. S	2136	Delaware	12 42 28	91 23 1083	7P	7P	Clair E. Paris	2 3 5		State Center	7979	Buena Vista	20 42 36	95 11	1455	6P	6P	Radio Station KAYL	2 3 5		
Atlantic 42 mi. S	2171	Crawford	4 40 00	95 22	7P	7A	E. M. Hogg	2 3 5 7		Storm Lake 2 mi. E	8009	Clayton	14 42 41	91 31		6P	6P	W. H. Ewanziger	3 4		
Atlantic 43 mi. S	2195	Lucas	5 40 56	93 27	7P	7A	Lloyd A. Kirk	2 3 4 5 7		Strawberry Point	8131	Miller	15 40 57	95 43		7P	7P	Raymond C. Yates	3 4		
Atlantic 44 mi. S	2203	Polk	6 41 32	93 39 954	MID	MID	U.S. Weather Bureau	2 3 4 5 7		Tabor 6 mi. NW	8255	Ringgold	19 40 51	94 12	1275	7P	7P	James A. Verploegh	2 3 5		
Atlantic 45 mi. S	2208	Polk	6 41 35	93 37 800	MID	MID	U.S. Weather Bureau	2 3 4 5		Tangley	8260	Cedar	4 41 46	91 08	818	7P	7P	Edward B. Dean	2 3 5		
Atlantic 46 mi. S	2240	Dallas	6 41 30	94 14	7P	7A	Joseph H. Harlan	2 3 5		Tipton	8270	Kossuth	6 43 17	94 00		6P	6P	John W. Palisier	3		
Atlantic 47 mi. S	2299	Lee	6 40 42	91 33	7P	7A	LeRoy G. Frush	2 3 5		Titonka 6 mi. NE	8296	Tama	10 42 00	92 34	929	6P					

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W.B.O., Kansas City, Mo. -- 4-15-50 -- 1090

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

MARCH 1950
Volume LXI No. 3



IOWA - MARCH, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

March 1950 was cold and dry. The average temperature for the State was 5 degrees below the normal for March, with the month among the 25 per cent coldest of record. Except for a four-day period early in the month, from the 4th through the 7th, and warm days on the 26th and 31st (a total of six days) when warm springlike weather occurred, the month was consistently cool.

Precipitation averaged approximately one inch, with the heaviest amounts occurring over the northern counties and the least amounts over the southern counties. The average snowfall for the State was over eight inches, again with the heavier falls occurring over the northern counties and the least falls over the southern counties. Amounts in excess of 16 inches, or twice the average, occurred in both northwestern and northeastern sections.

As the month closed, there was little indication of field activity on the farms of Iowa, although a few farmers were sowing oats. Spring in 1950 was late in Iowa.

The month opened fair and cold, with sub-zero temperatures reported from many localities. A change to milder weather set in on the 3rd followed by four of the relatively warmest days of the month. The warm period was brought to a close by one of the most severe of the winter storms. On the 5th a small disturbance crossed the Washington coastline and moved eastward to eastern Montana on the 6th and eastern Nebraska early on the morning of the 7th, intensifying greatly as it moved down the eastern slopes from the Continental Divide. The storm moved northeastward across Iowa on the 7th, reaching the Green Bay area on the 8th. Blizzard conditions were reported from western and northern sections of the State. In Council Bluffs, maximum wind speeds reached 61 miles per hour while gusts to 82 miles per hour were noted. There was considerable property damage, with power and communication lines down and some damage to buildings. Traffic was very hazardous, with numerous accidents occurring. In some localities, highways were under water from the melting of snow, and this added to the general discomfort. The heaviest falls of snow occurred in the northwestern counties. Snow fell again on the 10th-11th with the heaviest falls occurring in the north-central and northeastern sections. Again traffic was difficult in the northern counties.

There followed a period of cool weather with little precipitation. On the 19th, a small disturbance developed over southeastern Kansas, and on the 21st another small disturbance moved northward across Iowa. Light snows fell in Iowa from these disturbances, with heavier falls locally in the south-central section. On the 24th, a small, but deep disturbance moved eastward across southern Minnesota. On the 26th a more serious disturbance developed in eastern Colorado which moved rapidly northeastward across southern Minnesota, reaching Lake Huron on the morning of the 28th. This storm was accompanied by heavy rains in northeastern Iowa. The upper Cedar River rose rapidly, flooding portions of the residential sections of Charles City. Many families were compelled to move from their homes temporarily by the high water. Hailstorms were reported in east central Iowa in connection with the same storm. In the Davenport-Bettendorf-Moline-Rock Island area, the damage to greenhouses and other property was severe, and the loss was estimated at \$7500.--CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin Series, data from Hydroclimatic Network Stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal Agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
MARCH 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	01-09	10-49	50-99	100-199	200 and over				Total
Burlington WB Airport	NW	13	16.9	56	SW	7	79	82	66	71	8	8	3	0	0	0	19	43	7.7	948
Charles City WB City	-	-	8.1	25	NW	8	-	-	-	-	9	11	2	1	0	0	23	39	6.8	1167
Davenport WB City	-	-	-	-	-	-	-	-	-	-	10	6	4	0	0	0	20	-	-	980
Des Moines WB City	NW†	14†	12.7	70	NW	7	77†	80†	67†	69†	10	8	3	0	0	0	21	42	7.4†	1001
Dubuque WB City	-	-	7.0	28	NW	8	-	-	-	-	11	7	4	0	0	0	22	45	7.6	1064
Sioux City WB Airport	NW	16	12.4	61	N	7	79	80	64	67	9	5	3	0	0	17	65	7.1	1095	

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days 0.1 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days 0.1 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days 0.1 or more
1873	34.0	72	-18	1.42			1903	38.8	82	6	1.88	3.9	7	1933	36.0	77	-3	3.09	9.2	8
1874	31.7	68	-4	1.43			1904	34.8	78	3	2.18	4.4	7	1934	34.4	81	-13	1.09	6.0	6
1875	26.9	80	-10	1.62			1905	41.5	84	1	2.04	4.1	7	1935	40.7	85	-2	1.47	5.5	8
1876	27.2	75	-6	3.24			1906	27.1	65	-14	2.34	8.9	10	1936	39.2	80	-1	1.02	2.3	5
1877	27.3	72	-14	2.28			1907	40.6	92	-7	1.35	4.1	6	1937	32.9	76	-2	1.63	4.4	7
1878	45.6	80	-20	3.36			1908	37.9	85	-8	1.58	1.1	6	1938	43.7	89	0	2.35	1.2	9
1879	37.2	80	-3	1.18			1909	32.5	71	-15	1.53	9.8	6	1939	36.4	86	-9	1.79	7.1	6
1880	33.6	80	-21	1.26			1910	48.9	92	-10	0.17	T	1	1940	31.6	79	-2	1.72	10.1	10
1881	27.1	56	0	1.91			1911	39.4	83	2	0.93	1.9	5	1941	33.5	71	-10	0.99	6.8	6
1882	36.3	78	4	1.82			1912	24.9	70	-19	2.01	19.1	7	1942	38.3	77	5	1.96	2.5	9
1883	30.6	72	-13	0.55			1913	31.9	78	-23	2.48	5.3	9	1943	31.0	90	-19	1.51	8.8	6
1884	32.0	72	-16	2.57			1914	34.7	78	-5	1.69	1.8	7	1944	30.3	67	-7	2.58	11.9	12
1885	31.3	65	-16	0.24			1915	29.3	61	-5	0.96	8.8	5	1945	45.3	85	-11	2.88	2.5	8
1886	30.6	74	-9	1.72			1916	35.2	80	-18	2.87	8.9	8	1946	47.0	89	-7	4.18	6.0	12
1887	33.5	76	-8	0.83			1917	34.6	85	-12	1.84	6.2	6	1947	31.8	79	-2	1.38	3.4	7
1888	26.4	78	-12	3.04			1918	42.9	85	0	0.63	2.6	3	1948	32.5	77	-30	2.64	13.9	7
1889	39.7	80	8	0.47			1919	37.5	78	-11	2.33	1.1	6	1949	34.5	76	-6	2.44	1.7	9
1890	28.1	75	-24	1.49			1920	38.0	80	-21	3.02	2.4	7	1950	30.7	80	-20	1.03	8.3	8
1891	26.8	66	-19	2.60		10	1921	42.8	86	4	1.57	0.2	7	Period	34.7			1.78	5.6	
1892	31.9	84	-6	2.22	3.9	6	1922	38.3	74	-5	1.97	3.4	7							
1893	31.8	84	-8	2.14	4.0	8	1923	29.4	78	-22	2.87	18.5	7							
1894	41.0	84	-5	2.03	2.7	6	1924	31.9	72	3	2.65	10.5	8							
1895	34.4	94	-11	0.83	2.9	4	1925	40.1	82	-6	0.93	2.9	4							
1896	30.9	81	-12	1.10	5.4	5	1926	32.1	78	-4	1.06	8.1	6							
1897	32.0	72	-22	2.39	5.5	8	1927	39.6	75	0	1.92	2.9	9							
1898	37.5	72	-2	1.94	3.7	6	1928	38.9	88	1	1.44	3.0	5							
1899	23.0	75	-16	1.62	8.0	6	1929	39.1	83	-5	1.44	3.5	5							
1900	30.7	81	-13	2.06	6.6	5	1930	37.3	80	-4	0.89	1.3	5							
1901	34.2	76	-8	2.64	12.6	7	1931	34.9	64	5	1.68	10.3	6							
1902	39.1	79	-12	1.45	1.3	7	1932	28.4	77	-8	1.46	10.2	7							

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W.B.O., Kansas City, Mo. -- 5-19-50 -- 1090

CLIMATOLOGICAL DATA

IOWA
MARCH 1950

Table 2

Station	Temperature						Precipitation											
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	28.3	-4.9	68	26	-5	2	26	1.15	-.31	.52	11	12.6	8	11+	9	1		
Alton	30.8	-2.4	69	6	-5	2	26	.72	-.58	.20	10	11.0	7	10	10			
Cherokee	28.5	-5.1	68	6	-7	2	29	1.80	-.60	.60	10+	11.0	7	10	5	3		
Emetsburg	28.0		56	27+	-7	2	27	1.35	.01	.45	11	13.8	11	11	9	1		
Estherville	26.8	-4.5	55	6+	-6	2	28	1.41	.16	.47	10	18.7	16	10+	10	3		
Hawarden	28.9	-5.5	66	26	-9	12	28	1.33	.09	.35	11	12.8	8	11+	9	2		
Inwood 2 W	26.7	-6.4	64	6	-12	2	27	1.65	.35	.21	14.5	14.5		9	2			
Lake Park	26.3	-4.7	57	6	-7	2	26	1.44	.18	.40	10	13.5	8	11+	7	2		
Le Mars	30.3	-4.4	70	26	-4	13	24	.81	-.49	.26	10	10.5	8	10+	8	1		
Milford 4 NW	27.6 M	-3.9	55	31	-8	2	26	.98	-.32	.28	11	9.4			7	1		
Pringhar	27.1	-5.4	65	6	-9	2	27	1.67	.34	.30	26	12.1	8	11+	9	3		
Rock Rapids	26.9	-4.8	54	6	-8	2	28	1.49	.19	1.00	10	16.0			9	2		
Sanborn	26.8	-5.1	66	6	-10	13	27	1.53	.23	.60	10	20.0	15	11	13	2		
Sheldon	26.0	-4.8	63	6	-12	2	29	1.40	.15	.60	10	12.5	9	10	9	1		
Sibley	26.1	-6.9	60	6	-11	2	28	.64	-.71	.25	26	12.0	10	11	6	1		
Sioux Rapids	27.8 M	-4.1	59	6	-6	12	27	.94	-.39	.35	10	8.0	6	10+	7	1		
Spencer 1 N	28.2	-5.2	65	6	-5	2	27	.60	-.68	.18	11	7.5	5	11+	8			
Storm Lake 2 E																		
DIVISION	27.8	-4.9						1.23	-.08			12.7						
NORTH CENTRAL DIVISION																		
Algona	28.3	-4.8	59	26	-5	2	26	.99	-.40	.34	21	9.6	6	1+	8	1		
Allison	28.7	-4.8	55	31	-10	2	27	2.02	.22	.65	26	12.0	12	1+	5	3		
Bancroft	27.9	-3.6	54	5	-5	2	27	1.63	.23	.83	10	17.3	9	10	6	2		
Britt	23.1	-9.5	48	26	-13	2	30	1.45	.17	.50	26	7.7	2	21	8	2		
Charles City	27.1	-5.2	54	26+	-7	2	25	1.61	-.26	.69	26	9.4	6	3	14	2		
Clarion	27.5	-6.1	60	26	-10	2	27	.64	-.86	.30	26	9.5	13	1+	8	1		
Dakota City	28.8	-5.4	64	26	-6	2	27	1.18	-.22	.38	10	8.6	6	11	8	2		
Forest City	24.2	-7.6	50	27	-6	2	29											
Hampton	28.0	-6.0	55	26+	-8	2	27	1.43	-.42	.27	26	9.3	10	1+	9	3		
Mason City 3 N	26.4	-5.8	53	31	-8	2	27	.78	-.70	.23	21	10.4	5	11+	10			
Mason City AP CAA	25.2	-7.0	51	26	-8	2	29	1.14	-.34	.39	26	7.3	7	1+	13	2		
Northwood	25.7	-5.6	51	31	-9	2	27	1.72	-.14	.61	27	10.0	9	11	8	3		
Osage	26.8	-5.0	53	31	-8	2	26	1.09	-.76	.48	11	7.5	6	11	8	1		
DIVISION	26.6	-5.9						1.31	-.28			9.9						
NORTHEAST DIVISION																		
Cascade	29.8		56	31	-5	2	24	1.04		.30	11	8.7	6	3	7	1		
Cresco	25.9	-4.1	52	31	-14	2	27	1.88	.03	.65	26	10.8			7	2		
Decorah	26.5		55	7	-12	14	28	2.53		1.11	26	13.0	8	11	9	2		
Decorah 2 S	25.3	-5.7	52	31	-14	14	26	2.81	.91	.91	26	4.5	11	4	12	4		
Delaware 2 W	27.5	-5.4	57	26	-8	2	26	1.23	-.57	.65	10	12.5	10	3	7	1		
Dubuque Lock & Dam 11	27.7	-7.4	55	27	-7	2	27	1.43	-.58	.45	11	8.7	8	4	8	2		
Dubuque WB City	30.3	-4.8	59	26	-5	2	23	1.50	-.53	.43	10	10.1	5	3+	11	2		
Elkader	27.3	-5.3	58	31	-10	2+	28	2.07	.23	.78	26	14.0	18	3	7	2		
Fayette	26.8	-6.1	52	27+	-8	2+	27	2.39	.29	.94	27	16.7	10	11	11	3		
Guttenberg Lock & Dam	29.0	-6.0	60	31	-9	2	28	1.30	-.55	.50	11		8	11+	10	2		
Independence 2 W	29.4 M	-5.0	60	27				1.35	-.20	.63	26	9.2	6	11+	6	2		
New Hampton	23.2	-9.1	55	31	-15	2	31	1.12	-.77	.36	27	17.0	8	11	7	2		
Oelwein	28.1	-5.6	55	31	-6	2	25	2.08	.26	1.10	26		8	11	7	1		
Saratoga 2 E	24.8		51	31	-11	2	25	1.49		.95	26	11.0	9	11	8	1		
Tripoli	29.0		57	31	-8	2	26	2.27		.91	11	12.6	7	11	9	2		
Waukon	27.6 M	-3.7	53	31	0	1	26	3.14	1.29	2.66	26	9.0	9	3+	5	1		
DIVISION	27.4	-5.6						1.85	.00			11.3						
WEST CENTRAL DIVISION																		
Audubon 2 S	30.2	-5.4	76	26	-2	2	28	1.03	-.40	.33	21	9.3	4	11	7	2		
Carroll	31.5	-3.6	75	26	0	2	26	.61	-.78	.41	11	6.0	1	11	3	1		
Castana 4 E	30.4		75	26	-3	2	26	.55		.28	10	7.1	5	10+	3	1		
Cushing 3 NE	30.0	-4.7	72	26	-2	13	28	.91	-.34	.40	10	10.0	6	10+	6	1		
Denison 1 S	30.3	-5.6	75	26	-3	8	28	.58	-.56	.23	10		3	10+	3			
Guthrie Center	31.1	-5.5	76	26	1	2	29	.74	-.75	.18	19	10.4	4	11+	7			
Harlan	32.6	-4.8	75	26	2	2+	26	.92	-.31	.20	8+	9.0	5	11+	7			
Ida Grove 4 S	30.5	-4.6	74	26	-2	12+	25	.94	-.31	.29	11	13.0	6	11	7	2		
Jefferson	31.9	-4.1	75	26	1	2	25	1.26	-.34	.51	21	11.5	5	10+	5	2		
Lake City	29.8	-5.2	75	26	-3	2	27	.55	-.91	.25	10		4	10	5	1		
Logan	32.6	-5.2	77	26	0	2	27	.97	-.31	.17	7+	11.0	3	11	9			
Mapleton 5 NW	30.6	-5.4	74	26	-3	2	27	.55	-.65	.25	10	4.8	4	10+	4	1		
Missouri Valley	34.7	-3.1	78	26	1	2	24	1.32	.07	.29	21	8.4	2	7+	8	2		
Onawa	32.1	-5.1	75	26	-1	12+	27	.71	-.64	.38	10	7.5	5	11	7	1		
Rockwell City	29.9	-5.0	70	26	-2	2	26	1.24	-.30	.35	10	12.5	7	11	8	2		
Sac City	30.6	-3.9	74	26	-2	2	25	1.06	-.19	.42	10	11.0	6	10+	7	1		
Sioux City WB Airport	29.5	-4.6	73	26	-2	13	28	.92	-.28	.43	7	8.7	6	10+	8	2		
DIVISION	31.1	-4.9						.37	-.47			9.3						
CENTRAL DIVISION																		
Ames 3 SW	31.1	-4.8	72	26	-2	2	25	.53	-.90	.22	21	4.5	5	1+	9	2		
Boone	31.3	-5.2	72	26	-3	2	25	1.14	-.36	.30	21	10.4	6	11+	9	2		
Des Moines WB Airport	32.2	-4.3	76	26	2	2	26	.81	-.97	.39	19	8.1	4	19	8	1		
Des Moines WB City	32.5	-5.0	76	26	2	2	27	.79	-.99	.26	19	9.0	3	19	11	1		
Fort Dodge	29.6	-4.5	69	26	-5	2	26	.94	-.60	.35	11	11.5	9	1+	5	1		

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
MARCH 1950

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Griannel	31.2	-5.4	74	26	-3	2		26	.63	-1.16	.17	20	10.0	5	20	8		
Grundy Center 4 NE	28.6	-5.3	63	27	-8	2		25	.81	-1.07	.28	11	5.5	6	1+	7	1	
Iowa Falls 1 N	28.4	-6.1	64	26	-11	2		27	1.22	-.65	.35	11	8.5	12	3	8		
Marshalltown	30.4	-5.2	71	26+	-20	2		25	.92	-1.00	.20	11	4.5	2	20+	8		
Newton	32.5	-4.1	74	26	-1	2		25	.86	-.76	.20	19	8.0	3	20	9		
Perry 2 SE	31.9	-4.9	74	26	0	2		26	.91	-.63	.21	21	7.5	3	1+	8		
State Center	31.2	-4.7	70	26	-2	2		22	.89	-.81	.18	21	7.4	3	21	11		
Toledo	31.0	-5.1	70	26	-4	2		25	.68	-1.19	.13	27	5.5			10		
Waukee	33.7	-3.0	76	26	1	2		25	.87	-.78	.40	21	7.1			5	1	
Webster City	29.4	-5.1	70	26	-7	2		27	.73	-.86	.24	21	9.3	16	1+	8		
Woodward 7 N	32.6	-4.0	74	26	5	8+		24	.51	-1.04	.18	21	6.0	4	1+	6		
DIVISION	31.1	-4.8							.83	-.86			7.7					
EAST CENTRAL DIVISION																		
Anamosa 1 NW	30.4	-3.8	63	27	-5	2		25	.89	-.91	.32	26	6.0	6	3	9	1	
Belle Plaine	31.4	-4.6	70	26	-3	2		26	.65	-1.56	.17	11	6.8	5	1+	14		
Bellevue Lock & Dam 12	30.1	-5.1	62	27	-6	2		27	1.80	-.30	.51	11	3.9	5	4	10	3	
Cedar Rapids No. 1	31.9	-4.0	65	27	-3	2		23	.81	-.90	.20	27	5.5	3	1+	11		
Clinton No. 1	32.7	-4.1	61	26	-2	2		24	1.24	-1.12	.31	11		2	1+	11	1	
Davenport WB City	33.3	-4.4	68	26	0	2		22	1.61	-.71	.46	26	2.7	1	1+	10	2	
Iowa City AP CAA	32.0	-4.5	70	26	-1	2		24	1.32	-.82	.62	26	4.4	3	3	11	1	
Le Claire Lock & Dam 14	32.7		65	26+	-1	2		25	.78	-1.61	.17	11	1.8	1	11+	11		
Maquoketa 5 E	30.6	-4.3	61	27	-6	2		27	1.52	-.53	.38	26	10.1	7	3	9	3	
Muscatine No. 1	34.0	-3.6	71	26	-1	2		23	.56	-1.74	.14	11	2.0	2	3	11		
Tipton	31.8	-4.6	66	26	-6	2		23	1.14	-.96	.23	25	8.1	5	3	7		
Vinton	30.6 M	-5.4	62	27	-4	2		25	.29	-1.86	.10	21	2.1	4	1+	8		
Williamsburg	31.9	-5.1	74	26	-3	2												
DIVISION	31.8	-4.3							1.05	-1.02			4.9					
SOUTHWEST DIVISION																		
Atlantic 1 E	33.1	-4.0	77	26	0	2		27	.79	-.68	.27	10	6.6	2	10+	7	1	
Atlantic AP CAA	31.1	-6.0	76	26	2	2+		28	.58	-.89	.23	10	7.2	2	10+	8		
Bedford 1 N	34.4	-4.3	76	26	1	2		26	.90	-.71	.32	21	6.5	3	19+	4	3	
Clarinda	35.5	-3.3	80	26	4	2		26	.68	-.93	.19	11+	6.3	4	19	7		
Corning 1 W	33.6	-3.9	78	26	4	12+		26	.34	-1.30	.16	21				4		
Council Bluffs 5 NE	34.2		76	26	1	2		27	.84		.35	19	5.5	3	19	7	2	
Glenwood 2 E	34.6	-4.5	76	26	2	12		27	.59	-.84	.24	21	6.0	2	21	5		
Greenfield	31.7	-3.8	76	26	2	2		27	1.20	-.40	.45	10	7.0	3	11	8	1	
Norwich 2 E SCS Farm	34.8 M	-4.2	78	26	3	2		24	.50	-1.10	.21	21	8.2	6	21	4		
Oakland 2 E	32.7	-5.7	76	26	1	2		27	.70	-.65	.25	10	5.5	2	10+	7	1	
Red Oak	33.7	-5.4	78	26	3	2		28	.59	-.96	.22	10	4.4	2	19	7		
Shenandoah	35.8	-4.2	78	26	4	2		27	.85	-.70	.30	21	5.5	3	19	6	2	
Sidney	35.5		76	26	1	2		25	.67		.32	21	5.0	2	19+	3	1	
DIVISION	34.0	-4.4							.71	-.81			6.1					
SOUTH CENTRAL DIVISION																		
Albia	34.2	-3.8	76	26	2	2		25	.55	-1.38	.36	20	7.3	5	20+	7	1	
Centerville	35.7	-3.1	76	26	2	2		25	.71	-1.15	.34	19	4.0	4	19+	7	1	
Chariton 3 E	34.1	-3.8	77	26	1	2		27	.36	-1.32	.36	19	7.0	6	19	1	1	
Creston	33.0	-2.7	75	26	2	2		24	.55	-1.15	.25	11		3	22	7	1	
Iadinsola	34.0	-3.9	77	26	1	2		25	.86	-.76	.48	19	10.0			9	1	
Knoxville 2 W	34.5	-4.0	77	26	2	2		24	1.10	-.79	.74	19	13.4	8	19	8	1	
Lamoni	35.0	-3.5	77	26	3	2		25	.59	-1.21	.17	19	3.0	2	19	7		
Lamoni AP CAA	33.5		77	26	3	2		27	.59		.19	21	6.7	2	19	8		
Millerton	34.2	-4.4	77	26	4	2		27	.35	-1.55	.17	19	5.9	3	19	9		
Mount Ayr 2 N	35.4	-3.2	76	26	2	2		25	.51	-1.30	.27	21		3	21	4	1	
Osceola	34.1	-4.4	76	26	2	2		26	.69	-1.01	.29	19	7.7	4	19	7	1	
Tingley	32.2	-5.6	75	26	-3	2		27	.81	-.94	.30	19	7.0	3	19	8	2	
Winterset	33.9	-4.0	76	26	0	2		26	.77	-.94	.22	19		3	19	6		
DIVISION	34.1	-4.0							.65	-1.13			7.2					
SOUTHWEST DIVISION																		
Bloomfield 2 N	34.8	-4.1	73	26	-2	1		23	.33	-1.96	.22	19		3	19	3		
Burlington WB Airport	34.2	-3.7	74	26	2	2		26	.80	-1.74	.21	26	2.4	1	19	11		
Columbus Junction	33.8	-4.3	73	26	0	2		25	.63	-1.67	.25	3	2.8	3	3	9	1	
Fairfield	32.8	-5.5	62	6	2	1		26	.57	-1.69	.19	27	3.0	1	2+	7		
Keokuk Lock & Dam 19	34.3	-6.2	72	27	4	3		26	.77	-1.50	.20	19	4.5	2	19+	8		
Keokuk WB City	34.9	-5.6	77	26	3	2		24	.73	-1.54	.21	22	3.0	2	19+	9		
Keosauqua State Park	36.5	-3.5	76	26	4	2		24	.45	-1.80	.18	21	2.5	1	19	8		
Mount Pleasant	34.9	-4.1	75	26	1	2		25	.67	-1.54	.25	19	3.5	1	3+	4	1	
Onkaloosa	34.3 M	-3.4	76	26	2	2		26	.79	-1.11	.34	20	7.5	3	20	11	1	
Ottumwa AP CAA	33.7	-5.8	77	26	3	2		25	.32	-1.78	.09	19	2.8	1	19	7		
Sigourney	33.3	-3.9	76	26	0	2		24	.21	-1.83	.06	1+	2.6	2	1	6		
Washington	33.7	-4.5	74	26	-1	2		25	1.08	-1.24	.65	27	3.5			6	1	
DIVISION	34.3	-4.3							.61	-1.61			3.5					
STATE	30.7	-5.0							1.03	-.66			8.3					

See reference notes following Station Index.

HOURLY PRECIPITATION

IOWA
MARCH 1950

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
-1st-																										
BEAVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
BURLINGTON WB APT	//												.01													.03
DUBUQUE WB CITY													.02													.01
HARTLEY 3S																										.01
LENOX																										.01
MASON CITY AP CAA	6																									.01
MOUNT PLEASANT		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.01
NORTH ENGLISH																										.01
SPILLVILLE													.01													.01
STRAWBERRY POINT																										.02
-2d-																										
DES MOINES WB CITY																										.01
GREENFIELD																										.04
IOWA C RALSTON CRK4																										.02
-3d-																										
AMES 3SW		.01	.01			.01																				.04
BURLINGTON WB APT	//												.01	.01	.02											.04
CASCADE													.02	.02	.03	.03	.02									.13
CHARLES CITY			.01	.01	.01	.01	.01					.01	.01	.02												.06
DAVENPORT WB CITY													.01	.01	.01											.07
DERBY				.01	.01	.01	.01																			.04
DES MOINES WB APT		.01	.02	.02	.01	.01																				.07
DES MOINES WB CITY		.01	.01	.02	.01																					.09
DUBUQUE WB CITY													.01	.03												.09
GRINNELL				.01	.02	.01	.01																			.05
IOWA CITY AP CAA	6	*	*																							.05
IOWA C RALSTON CRK1					.01	.01	.01	.01					.01	.01												.10
IOWA C RALSTON CRK2						.01	.02	.02	.02				.02	.01												.05
IOWA C RALSTON CRK3						.01	.01	.01	.01				.01	.01												.08
IOWA C RALSTON CRK4		.01	.01	.02		.02																				.08
IOWA C RALSTON CRK5					.01	.02	.02						.02													.03
KEOKUK WBO																	.01	.01		.01						.05
KNOXVILLE 2W				.02	.02	.01																				.10
LAMONI AP CAA 4WVW	6	*	*	*	*	*	*	*																		.10
MARION 4NE			.01	.01	.01	.02	.01	.02	.02	.01				.01	.01											.13
MARSHALLTOWN NO 2	6	*	*	*	*	*	*	*	*	*																.09
MASON CITY AP CAA																										.12
MONOMA																										.10
MORSE				.01	.01	.02	.02	.01	.01	.01			.02	.01	.01											.10
MORSE 1NE					.02	.03	.01	.01	.01	.01			.01	.02												.03
MORSE 4SSW		*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	.09
MOUNT PLEASANT		*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	.03
MUSCATINE NO 1							.01	.03	.01	.02			.01	.01												.09
OASIS																										.04
OTTUMWA AP CAA	6					.01			.01																	.03
ST ANSGAR 2S				.01	.01	.01	.01																			.04
SAINT CHARLES			.01	.01					.01	.01																.05
SHEFFIELD		.01	.02																							.03
SPILLVILLE				.01									.01	.01												.08
STRAWBERRY POINT									.02	.01			.01	.01	.01											.05
TRAEER			.02	.04	.03				.01	.01	.02		.01	.01	.01											.16
WEBSTER CITY		.01		.01					.01																	.03
WHEATLAND									.02				.01	.04	.01	.01										.09
-4th-																										
BELLEVUE L/D 12						.01	.02																			.03
-7th-																										
AMES 3SW		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04
ATLANTIC AP CAA	//																									.14
BELLEVUE L/D 12	//													.01	.02											.05
BURLINGTON WB APT	//													.02		.05										.11
CASCADE																	.06	.02								.07
CHARLES CITY																	.05	.02	.01	.01		.01	.01	.05		.15
CHEROKEE																	.05	.02	.01	.02		.05	.01	.02	.02	.08
COON RAPIDS																	.01	.01	.01	.01		.01	.01		.01	.09
COUNCIL BLUFFS 6 NE																	.01	.01	.01	.01		.01	.01		.01	.33
DAKOTA CITY																	.11	.22								.06
DAVENPORT WB CITY																										.06
DES MOINES WB APT																										.06
DES MOINES WB CITY																										.16
DUBUQUE WB CITY													.02	.02	.01										.01	.02
GREENFIELD																										.08
HINTON 5WNW																	.04	.06								.13
HORNICK																	.03	.07								.21
IDA GROVE 4S																	.05	.03								.15
IOWA CITY AP CAA	6																									.06
IOWA C RALSTON CRK1																	.02	.02	.01						.01	.25
IOWA C RALSTON CRK2																	.24	.01							.02	.05
IOWA C RALSTON CRK3																	.02	.02	.01						.02	.04
IOWA C RALSTON CRK4																									.04	.10
IOWA C RALSTON CRK5																									.01	.08
IOWA FALLS 1N																									.02	.06
KNOXVILLE 2W																									.03	.19
LAMONI																									.01	.38
LARRABEE																									.01	.22
MARION 4NE																	.01	.16	.20	.01					.01	.26
MARSHALLTOWN NO 2	6																								.01	.22
MASON CITY																										

Table 4-Continued

HOURLY PRECIPITATION

IOWA
MARCH 1950

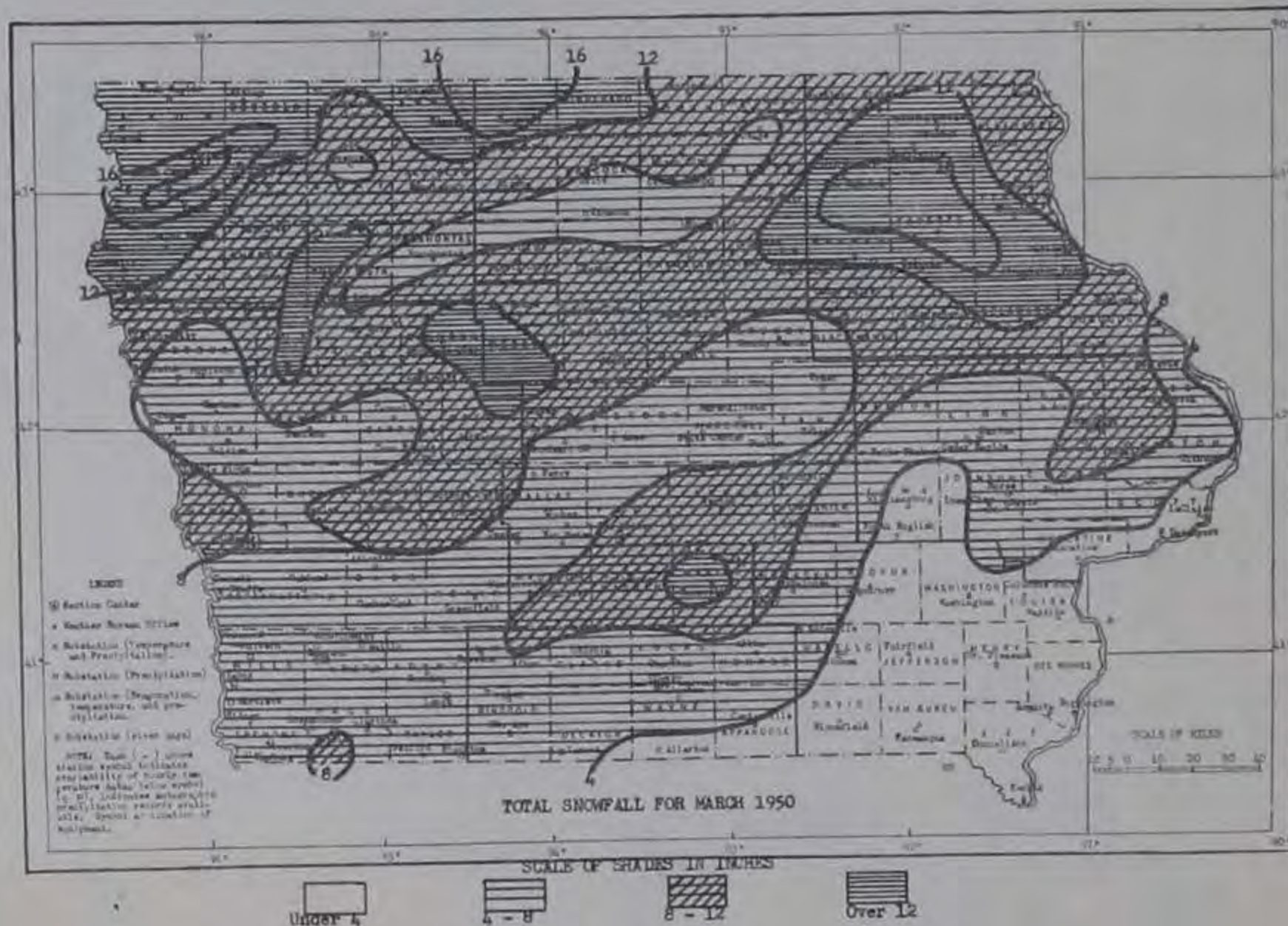
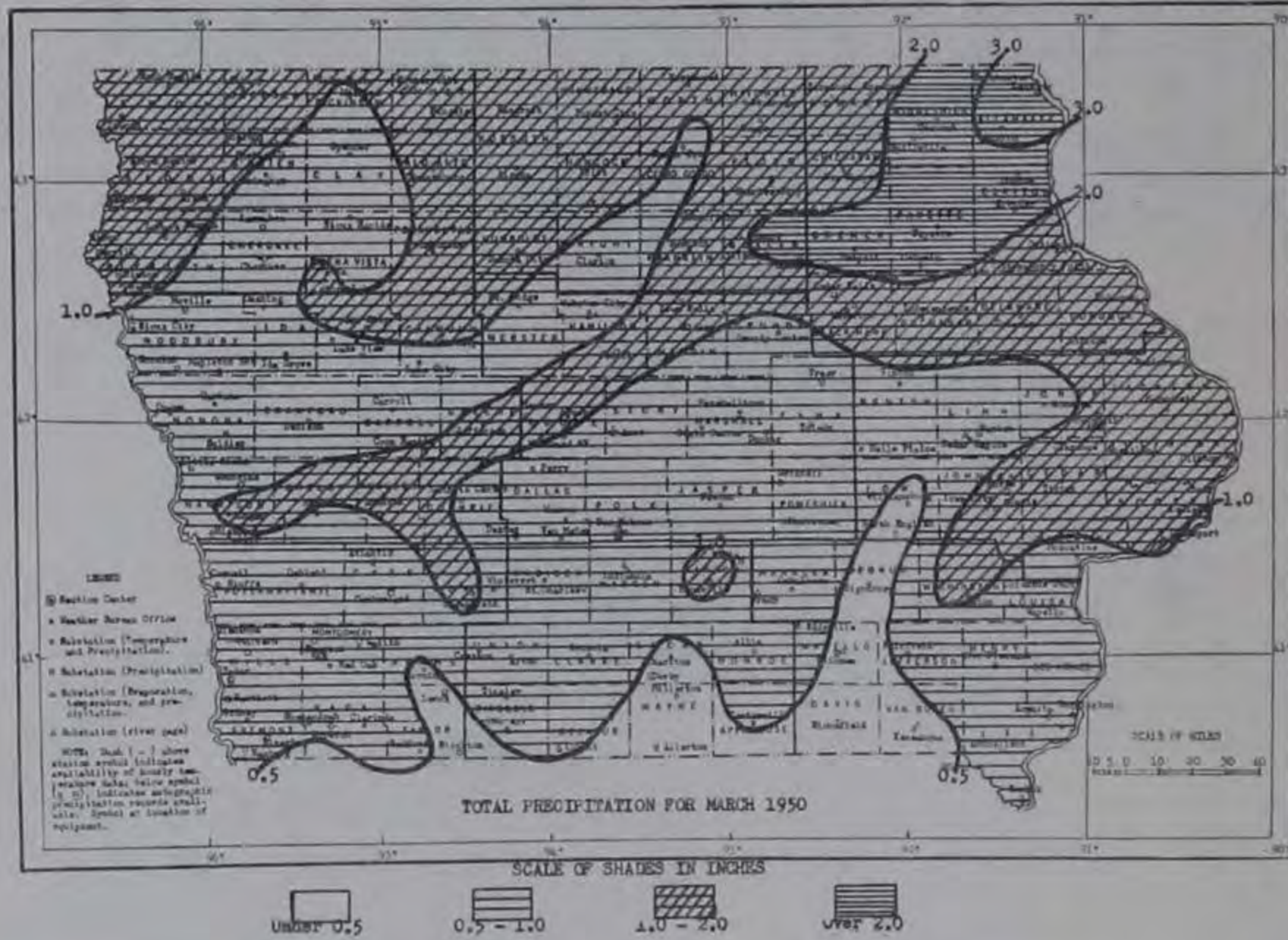
Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
ROCKWELL CITY															.01	.03	.07	.10	.08	.04	.01	.01	.01	.36	
ST ANSGAR 2S															.01	.01		.01	.09	.10	.02	.05	.04	.36	
SAINT CHARLES													.03	.01	.01			.01	.03	.02	.01	.01	.03	.13	
SHEFFIELD															.01	.01	.01	.03	.02	.03	.03			.18	
SHELL ROCK									*	*	*	*											.45	.45	
SIoux CENTER															.04	.04	.07	.08	.04	.01				.36	
SIoux CITY WB APT											.02				.02	.03	.05	.10	.03	.01	.01	.01		.26	
SOLDIER															.04	.07	.07	.03	.01	.02	.01	.01		.26	
SPENCER 1N	6																		.22						
SPILLVILLE																		.03	.02	.03	.02	.01	.01	.14	
STRAWBERRY POINT			.01			.01												.10	.08	.07	.09	.11	.07	.61	
TABOR 6NW		*	*	*	*	*	*	*	*	*	*	*												.10	
TRAEER																.01	.01	.02	.07	.05	.05	.05	.04	.31	
WALLIN 2WNW																.09	.01	.01	.01	.01	.01	.01	.01	.16	
WASHINGTON																		.01	.01	.02	.03	.02	.01	.10	
WEBSTER CITY															.01	.01	.05	.05	.08	.01	.02	.01	.01	.25	
WHEATLAND																.01	.05	.07	.01	.01	.04	.03	.07	.15	
WOODBINE 5SE													.01	.01	.07	.05	.07	.01					.01	.23	
-11th-																									
ATLANTIC AP CAA	//	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	.01
BELLEVUE L/D 12	//	.01																						.01	.01
BURLINGTON WB APT	//	.01												.02				.01	.01	.01				.06	.06
CASCADE		.05	.02	.01																				.08	.08
CENTERVILLE		.01	.01	.01																				.02	.02
CHARLES CITY		.02																						.02	.02
COON RAPIDS		.03	.01																					.04	.04
DAKOTA CITY		.01	.01																					.02	.02
DAVENPORT WB CITY		.01																.02						.03	.03
DUBUQUE WB CITY		.02	.01																					.03	.03
FOREST CITY		.01	.02																					.03	.03
GRINNELL		.02	.01	.01	.01																			.03	.03
IDA GROVE 4S											.03		.01	.01	*	*	*	*	*	*	*	*		.05	.05
IOWA CITY AP CAA	6	.16	*	*	*	*	*		.01											.04				.04	.04
IOWA C RALSTON CRK1		.01	.01															.01	.01					.02	.02
IOWA C RALSTON CRK2				.01	.01	.01																		.02	.02
IOWA C RALSTON CRK3			.01			.01	.01																	.01	.01
IOWA C RALSTON CRK4			.01			.01	.01				.02													.01	.01
IOWA C RALSTON CRK5				.01																				.01	.01
KEOKUK WBO			.02																					.02	.02
LAMONI AP CAA 4WNW	6	.09	*	*	*	*	*		.01															.02	.02
MARSHALLTOWN NO 2		.01	.01																					.02	.02
MASON CITY AP CAA	6	.10	*	*	*	*	*		.03															.02	.02
MONOMA		*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.52	.52
MORSE		.01	.01																					.02	.02
MORSE 4SSW		.01	.01	.01		.01												.01	.03	.01				.04	.04
MUSCATINE NO 1						.01																		.06	.06
OASIS			.01																					.01	.01
RINGSTED		*	*	*	*	*	*		*	*	.18													.32	.32
ROCKWELL CITY		.01	.02		.01								.01	.01										.06	.06
ST ANSGAR 2S		.02	.01																					.03	.03
SAINT CHARLES				.01																				.01	.01
SPENCER 1N	6	.13																						.03	.03
SPILLVILLE		.01			.01	.01																		.03	.03
STRAWBERRY POINT		.02	.01																					.03	.03
TRAEER		.01																						.01	.01
WALLIN 2WNW		.01		.01	.02																			.04	.04
WASHINGTON		.01	.01																					.02	.02
WEBSTER CITY		.01																						.01	.01
WHEATLAND				.02																				.02	.02
WOODBINE 5SE			.01																					.01	.01
-15th-																									
FOREST CITY																						.02	.03	.05	.05
LAMONI AP CAA 4WNW	6																							.02	.02
MARION 4NE																								.01	.01
MOUNT ATR 2N																							.02	.03	.05
NORWICH 2E SCS FARM																							.02	.01	.02
RINGSTED																								.02	.02
TABOR 6NW																								.01	.01
WALLIN 2WNW																								.01	.01
-16th-																									
BELLEVUE L/D 12	//									.01	.01	.01		.01										.04	.04
BURLINGTON WB APT	//	.01	.01	.01						.01	.01	.01		.01										.05	.05
CASCADE													.01	.02	.03	.01	.01							.08	.08
CENTERVILLE																.01	.01	.01						.02	.02
CHARLES CITY		.01	.02		.01																			.04	.04
DAVENPORT WB CITY																.01	.02	.01						.06	.06
DERBY		.01	.01	.01				.01	.01	.01						.01	.02	.01						.03	.03
DES MOINES WB APT		.01	.01																					.02	.02
DES MOINES WB CITY			.01																					.01	.01
DUBUQUE WB CITY																								.09	.09
IOWA CITY AP CAA	6	*	*	*	*	*	*		.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	.05
IOWA C RALSTON CRK1									.01	.01	.01					.01							.01	.05	
IOWA C RALSTON CRK2									.01	.02	.03					.01	.01	.01					.07	.07	
IOWA C RALSTON CRK3									.01	.02	.03					.01	.01	.01					.05	.05	
IOWA C RALSTON CRK4						.01			.01	.01	.01					.01	.01	.01					.06	.06	
IOWA C RALSTON CRK5						.02	.03	.04								.01	.02						.09	.09	
KEOKUK WBO				.01	.01			.02	.03	.04														.04	.04
KNOXVILLE 2W		.01	.01																					.02	.02
LAMONI																								.05	.05
LAMONI AP CAA 4WNW	6	.04																						.03	.03
MARION 4NE				.01												.01	.01							.0	

HOURLY PRECIPITATION

Table 4-Continued

IOWA
MARCH 1950

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
WEBSTER CITY	.01																								.01
MARSHALLTOWN NO 2													-29th-												.02
													-31st-												
BEAVER																									
DAVENPORT WB CITY																									.07
HARTLEY 3 S																									
KEOKUK WB CITY																									.05
LENOX																									
MOUNT PLEASANT																									.64
MUSCATINE NO 1																									.04
NORTH ENGLISH																									
SPILLVILLE																									.02



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
MARCH 1950

Table 5

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ALBIA	MAX MIN	31 11	25 2	43 18	58 31	59 37	67 35	54 25	28 7	23 13	37 19	37 15	24 11	29 12	50 17	43 23	48 29	41 28	34 22	30 23	38 26	38 32	43 31	53 28	50 36	53 30	76 46	65 35	36 29	40 21	53 24	62 37	44.1 24.3	
ALGONA	MAX MIN	27 6	16 -5	32 12	48 20	49 35	50 32	48 25	25 3	21 7	23 12	21 7	17 1	24 2	40 10	33 16	40 30	37 22	30 17	29 20	34 21	34 30	45 24	47 28	44 34	39 30	59 36	57 34	37 25	36 18	45 27	55 33	36.8 19.7	
ALLISON	MAX MIN	26 9	15 -10	31 5	44 15	44 31	45 31	49 38	38 4	23 6	28 14	32 10	19 1	28 1	40 5	35 14	41 27	35 25	31 17	30 20	35 25	43 31	40 30	44 26	41 34	44 31	68 36	58 36	32 29	34 21	51 24	62 32	38.2 19.9	
ALTA	MAX MIN	24 5	21 -5	38 11	51 26	51 35	65 33	54 9	19 1	20 6	21 10	20 4	19 -2	23 -2	36 6	35 16	43 27	38 25	28 18	29 18	32 24	33 27	45 21	50 29	44 33	41 30	68 36	58 31	32 24	34 14	51 25	62 33	38.2 18.3	
ALTON	MAX MIN	24 11	22 -5	38 16	55 23	57 30	69 34	68 21	20 10	25 15	20 7	30 15	21 7	22 5	39 1	38 10	44 26	42 20	32 17	34 19	35 25	36 28	49 19	50 31	50 33	49 30	64 37	57 33	40 25	40 14	55 26	60 34	41.5 20.0	
AMES 3SW	MAX MIN	28 9	17 -2	32 15	50 20	49 36	59 33	50 28	28 5	22 11	28 18	29 10	19 5	25 7	42 15	38 23	45 31	38 27	31 23	28 22	33 24	36 31	44 29	50 28	46 35	46 30	72 41	59 35	35 28	37 23	52 25	60 36	39.6 22.6	
ANAMOSA 1NW	MAX MIN	31 10	16 -5	28 4	47 20	50 34	51 32	51 38	43 8	34 7	32 17	32 22	24 10	24 6	43 9	38 17	35 24	37 24	32 12	30 21	39 27	37 31	38 32	47 23	43 34	44 33	55 38	63 29	38 28	38 21	46 22	59 33	39.5 21.3	
ATLANTIC 1E	MAX MIN	30 11	35 0	44 21	62 25	60 29	70 37	59 18	23 4	29 12	28 17	27 8	22 3	27 3	44 8	43 31	52 30	40 26	33 23	30 21	37 24	38 29	48 25	58 27	53 35	50 30	77 44	61 31	32 27	40 18	57 24	65 37	44.3 21.9	
ATLANTIC AP CAA	MAX MIN	27 7	25 2	43 23	61 22	57 27	69 36	50 11	21 6	30 15	27 17	22 4	18 3	25 2	42 5	42 21	50 32	38 23	33 23	28 21	34 25	33 29	47 27	57 27	51 29	50 30	76 41	41 30	31 27	36 20	58 24	64 37	41.4 20.8	
AUDUBON 2S	MAX MIN	22 6	23 -2	46 18	56 28	55 36	68 31	50 15	18 2	25 8	25 15	24 3	18 1	24 0	39 12	41 20	42 29	41 24	30 21	27 18	34 22	32 27	44 27	49 29	52 32	51 31	76 41	60 28	32 26	36 16	52 26	54 36	40.2 20.2	
BANCROFT	MAX MIN	30 6	21 -5	32 14	50 21	54 34	53 32	48 27	28 3	23 5	25 13	22 6	18 -2	23 -2	35 7	36 14	42 28	39 21	32 15	30 20	32 18	34 29	45 27	46 33	45 29	39 28	49 33	48 28	37 24	35 19	43 29	53 34	37.0 18.8	
BEDFORD 1N	MAX MIN	32 19	25 1	47 20	60 27	63 34	70 36	63 22	25 10	32 13	32 18	32 13	20 8	29 6	49 18	43 24	51 29	45 32	35 23	30 25	37 27	36 19	47 22	60 27	52 32	53 34	76 44	64 31	35 27	38 23	47 21	64 40	44.9 23.8	
BELLE PLAINE	MAX MIN	28 10	18 -3	32 8	49 21	50 31	54 33	54 32	32 7	23 10	32 18	31 14	22 8	30 9	45 11	38 20	40 29	37 27	33 19	30 22	36 27	38 32	44 32	50 25	42 35	48 29	70 41	67 35	35 28	40 21	50 21	61 36	40.6 22.2	
BELLEVUE L AND D 12	MAX MIN	32 15	17 -6	27 0	45 20	50 34	49 32	48 37	48 9	22 4	33 18	32 24	25 11	25 7	45 0	45 16	49 25	43 27	33 15	30 21	37 27	39 31	48 31	53 27	53 32	73 44	58 37	39 30	41 23	63 23	53 30	44.6 21.6		
BLOOMFIELD 2N	MAX MIN	31 -2	24 2	40 24	54 34	60 40	63 38	58 32	40 10	27 14	40 22	34 23	28 13	23 13	42 16	40 26	45 30	49 33	43 24	33 24	30 26	37 31	39 30	48 28	53 30	53 38	73 39	58 30	39 20	41 23	63 23	53 38	44.6 25.0	
BOONE	MAX MIN	28 8	20 -3	34 13	55 27	47 35	62 30	50 25	27 4	23 12	28 17	29 8	19 4	23 6	42 16	40 20	45 32	40 25	31 23	28 20	33 23	35 29	44 25	53 29	45 36	45 36	72 41	60 35	35 28	36 28	51 27	60 37	40.0 22.5	
BRITT	MAX MIN	8 4	13 -13	28 5	39 19	42 29	44 22	41 34	12 -3	20 1	23 7	12 -4	13 -5	31 5	30 12	34 25	25 19	25 12	27 15	32 20	32 26	34 30	41 22	36 32	36 26	48 32	35 31	27 21	33 15	39 22	44 29	30.3 15.9		
BURLINGTON WB APT	MAX MIN	28 9	22 2	35 19	57 27	59 36	62 36	58 25	25 10	27 13	42 21	38 23	28 18	31 14	50 16	41 25	42 29	43 24	34 23	32 24	36 31	38 32	43 29	51 26	50 32	53 29	74 45	60 36	39 30	42 23	54 24	56 39	43.5 24.8	
CARROLL	MAX MIN	29 9	24 0	42 20	55 25	54 36	67 32	53 12	32 4	25 11	27 15	27 5	21 2	24 1	41 10	39 21	50 28	42 21	31 22	30 20	36 21	35 28	46 24	56 29	48 34	48 31	75 44	60 33	38 25	38 19	55 26	62 34	42.3 20.7	
CASCADE	MAX MIN	25 9	15 -5	28 2	45 15	51 36	50 33	48 38	40 10	24 8	32 13	28 20	26 10	25 6	42 1	36 16	32 25	37 26	31 12	32 22	40 28	37 32	47 33	40 26	45 35	51 39	57 30	37 30	39 22	57 25	64 31	40.3 21.5		
CASTANA 4E	MAX MIN	26 8	21 -3	45 17	54 28	54 37	67 35	55 20	20 4	26 9	24 15	20 2	21 -1	20 1	37 11	41 17	48 24	43 26	29 22	27 17	33 26	28 24	49 31	53 34	48 31	44 31	75 35	60 31	34 26	17 25	38 38	20.4		
CEDAR RAPIDS NO 1	MAX MIN	29 9	19 -3	31 7	50 21	50 35	55 34	54 35	35 8	24 10	32 18	32 19	25 10	28 10	46 12	40 19	38 27	38 27	33 18	31 10	43 23	32 28	42 32	49 24	43 36	44 34	76 40	70 36	39 28	42 23	55 23	64 34	46.6 22.9	
CENTERVILLE	MAX MIN	34 16	27 2	45 19	59 29	61 35	70 35	65 31	33 8	26 15	39 19	39 19	23 12	31 15	53 23	45 30	50 32	47 30	34 23	31 23	34 26	39 31	45 30	53 26	52 35	52 28	77 46	68 37	37 29	41 22	55 23	64 37	45.1 24.8	
CHARITON 3E	MAX MIN	33 17	25 1	43 20	58 27	60 32	68 35	62 28	28 7	25 13	36 20	34 17	24 9	29 10	52 43	45 28	51 32	48 22	38 24	33 26	36 30	36 30	41 22	44 28	40 25	41 26	54 34	53 26	34 22	35 20	40 34	54 34	34.4 19.7	
CHARLES CITY	MAX MIN	19 0	14 -7	26 11	42 18	43 30	46 33	47 15	16 5	21 7	25 18	21 8	19 3	20 3	35 7	36 17	45 25	38 21	30 16	29 20	34 25	33 31	47 30	51 25	47 34	41 26	67 34	43 26	32 22	34 27	53 34	60 34	38.5 18.5	
CHEROKEE	MAX MIN	26 13	23 -7	40 17	52 27	54 30	68 29	54 12	19 1	22 5	20 12	19 6	20 -3	20 -4	35 4	36 13	45 27	38 24	30 18	29 19	34 22	33 24	42 30	42 28	37 27	52 30	60 32	66 30	55 25	80 38	60 32	34 25	38 14	47.4 23.5
CLARINDA	MAX MIN	32 15	28 4	47 21	67 25	63 32	73 39	57 16	26 7	36 14	35 20	30 13	25 6	31 7	57 18	44 24	54 30	42 29	42 24	31 22	43 24	37 30	52 28	60 27	66 36	55 32	80 42	60 33	34 29	38 22	60 21	64 38	47.4 23.5	
CLARION	MAX MIN	25 6	16 -10	30 7	44 20	46 29	46 32	45 28	28 2	18 7	25 9	24 7	16 0	23 2	37 7	33 18	39 30	33 24	30 19	29 19	33 25	36 30	42 25	45 27	44 34	41 28	60 36	54 36	39 25	40 20	46 25	51 33	40.8 19.4	
CLINTON NO 1	MAX MIN	30 10	25 -2	45 8	61 24	61 36	70 33	57 36	23 13	30 11	30 18	36 25	28 16	28 12	47 15	38 22	34 28	40 31	35 21	31 24	42 29	39 32	51 28	42 32	48 33	61 40	59 39	39 30	40 24	53 46	55 36	42.7 24.5		
COLUMBUS JUNCTION	MAX MIN	31 7	18 0	34 11	53 27	56 39	57 36	58 36	37 9	25 12	38 21	36 23	27 16	28 12	50 12	41 24	38 29	40 29	34 21	32 25	36 30	38 32	44 25	51 32	45 29	49 29	73 44	69 37	39 32	40 24	53 24	55 38	42.8	
CORNING 1W	MAX MIN	30 9	25 20	45 19	61 27	61 39	70 37	57 14	23 14	30 14	30 18	36 10	18 4	26 4	45 16	42 24	50 24	42 27	33 21	28 21	33 21	35 24	49 28	58 26	57 33	52 28	76 40	60 31	34 26	36 17	58 23	65 38	44.8 23.0	
COUNCIL BLUFFS 5NE	MAX MIN	30 17	25 1	44 21	61 26	64 29	70 38	65 21	21 7	33 13	31 21	27 15	20 3	29 6	45 17	42 23	53 31	52 32	33 24	30 2														

DAILY TEMPERATURES

IOWA
MARCH 1950

Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DELAWARE 2W	MAX MIN	22 2	14 -8	24 2	40 23	46 33	46 31	47 33	33 7	29 5	30 15	30 15	25 5	24 0	40 2	32 7	35 15	28 6	28 18	37 22	36 30	39 31	45 24	47 33	38 33	57 37	54 32	33 29	37 26	43 23	56 25	36.3 18.6	
DENISON 1S	MAX MIN	27 7	23 -1	40 20	56 30	53 32	68 36	54 6	20 -3	25 10	25 15	21 5	16 0	21 10	39 19	41 27	30 22	29 19	33 25	32 29	47 24	54 32	50 32	45 30	75 40	53 28	32 21	37 26	54 38	62 54	40.4 20.1		
DES MOINES WB APT	MAX MIN	25 7	22 2	42 19	56 30	55 36	67 37	52 11	22 7	22 14	31 19	30 10	20 8	25 8	44 17	40 25	47 31	42 25	31 24	28 22	34 26	35 30	43 28	56 28	47 34	48 32	76 46	47 32	33 28	38 21	54 25	41.1 23.2	
DES MOINES WB CITY	MAX MIN	27 7	23 2	41 18	58 28	56 36	67 36	53 11	22 7	23 14	31 20	30 10	21 8	25 9	44 18	41 24	47 31	43 26	32 25	28 23	34 26	36 31	44 30	55 28	48 32	76 46	46 31	34 28	38 24	54 27	62 37	41.5 23.4	
DUBUQUE L AND D 11	MAX MIN	26 12	14 -7	24 -1	41 23	46 29	46 30	45 38	42 8	20 7	27 17	27 20	20 7	21 5	37 13	32 23	31 23	25 11	28 19	33 25	33 30	35 29	44 26	43 33	42 31	55 35	44 31	40 29	35 23	39 32	51 23	34.7 20.7	
DUBUQUE WB CITY	MAX MIN	29 3	15 -5	27 5	47 26	52 37	50 34	50 29	29 10	23 9	33 20	32 15	24 12	25 8	43 10	35 19	33 23	38 15	30 21	38 30	36 32	38 33	47 30	42 36	45 35	59 39	58 36	36 28	39 24	45 27	56 34	38.0 22.6	
ELKADER	MAX MIN	30 5	15 -10	25 -3	46 13	50 29	50 26	47 34	36 5	23 0	30 15	30 15	27 4	27 -1	40 -10	35 4	34 21	38 24	31 2	30 18	40 24	38 30	45 29	48 30	42 21	45 30	53 34	40 27	40 19	42 20	58 28	37.8 16.8	
EMMETSBURG	MAX MIN	20 8	17 -7	31 14	50 17	49 32	55 32	47 18	18 2	20 6	23 14	20 6	16 0	25 0	39 7	36 16	42 31	35 22	31 12	30 20	33 25	34 29	45 24	48 27	43 30	54 37	56 37	38 25	34 19	46 27	56 33	36.6 19.3	
ESTHERVILLE	MAX MIN	22 4	18 -6	33 14	50 19	50 35	55 31	47 7	17 -2	21 4	21 15	18 5	18 -2	23 0	35 4	35 9	42 27	39 20	29 14	30 18	32 23	35 28	46 23	46 33	44 30	51 35	50 31	33 23	36 15	45 26	55 35	38.2 17.4	
FAIRFIELD	MAX MIN	26 2	23 3	38 22	48 34	58 34	62 32	57 28	27 8	27 15	39 23	28 13	26 15	29 23	50 27	43 27	45 31	40 22	40 22	34 24	31 25	39 31	38 32	44 25	49 31	52 27	75 34	35 32	41 23	53 34	59 35	42.1 23.4	
FAYETTE	MAX MIN	29 6	14 -8	44 -1	46 18	44 33	48 28	48 38	41 4	22 4	28 12	28 14	24 4	26 -1	38 -8	34 2	31 22	35 25	31 -3	31 18	40 24	38 30	38 32	42 21	40 34	41 32	44 29	52 36	38 27	37 20	43 22	52 30	36.1 17.5
FOREST CITY	MAX MIN	18 6	16 -8	28 -4	42 16	45 26	44 32	40 34	16 2	20 2	24 8	12 10	16 0	24 2	36 12	30 20	36 20	26 14	30 18	28 20	32 24	35 25	40 24	40 28	38 30	50 32	40 34	30 24	32 20	38 26	31.5 16.9		
FORT DODGE	MAX MIN	27 9	18 -5	33 12	51 24	46 34	53 32	48 28	29 3	21 7	26 13	26 6	18 2	25 3	39 12	35 19	44 31	30 25	29 21	34 22	35 30	45 25	51 27	44 35	44 30	69 38	57 34	36 26	37 20	50 26	57 35	38.3 20.8	
GLENWOOD 2E	MAX MIN	31 17	24 3	45 22	64 28	61 30	70 42	60 17	22 9	36 20	31 13	28 2	20 6	30 19	42 24	54 31	51 32	33 24	31 27	34 24	35 29	47 25	57 30	53 35	54 32	76 46	59 31	33 28	37 21	59 23	64 42	44.8 24.4	
GREENFIELD	MAX MIN	30 11	23 2	43 19	57 27	59 35	67 17	58 19	20 3	25 9	28 13	28 11	18 3	33 5	45 13	48 32	44 29	29 24	31 23	34 12	37 23	46 25	57 29	50 34	46 24	76 41	59 31	32 17	38 26	54 28	61 39	42.5 20.9	
GRINNELL	MAX MIN	28 8	16 -3	37 11	52 24	51 32	57 34	53 28	24 5	32 8	32 18	21 7	29 13	43 20	40 29	44 35	38 20	32 20	30 21	36 26	39 21	43 30	52 25	45 35	48 29	74 41	65 33	34 28	49 20	61 35	41.0 21.4		
GRUNDY CENTER 4WE	MAX MIN	27 5	15 -8	30 4	41 18	45 34	47 33	48 30	31 4	21 8	29 15	29 10	19 1	26 5	39 17	34 26	37 25	31 18	26 19	34 24	37 31	41 25	47 34	40 28	45 34	62 38	63 37	37 27	44 21	58 22	37.4 19.8		
GUTHRIE CENTER	MAX MIN	28 8	22 1	43 20	59 28	55 36	67 32	54 17	19 3	25 10	27 15	27 16	18 3	27 3	41 5	38 22	48 32	42 23	31 23	27 19	34 20	34 29	45 24	56 28	49 31	48 30	76 42	60 32	37 19	55 25	61 28	41.5 20.6	
GUTTENBERG L/D 10	MAX MIN	24 10	20 -9	35 -1	46 17	50 31	51 27	48 36	29 6	32 3	31 16	28 15	26 5	41 3	33 -1	33 7	40 21	30 14	31 25	38 17	38 29	38 24	45 32	48 30	44 34	58 36	54 27	47 21	46 23	60 28	38.5 18.4		
HAMPTON	MAX MIN	27 7	14 -8	29 7	44 20	44 32	44 32	47 36	20 3	26 7	25 14	16 10	23 3	38 3	32 10	36 14	35 28	29 25	27 18	33 20	37 25	41 31	42 26	40 35	55 29	55 34	36 27	35 21	42 26	54 32	55.5 20.4		
HARLAN	MAX MIN	30 13	24 2	42 22	60 24	56 30	68 38	62 19	21 6	28 14	26 18	25 10	19 3	24 2	41 10	43 23	50 29	48 30	30 25	30 22	35 25	34 26	48 29	55 36	51 33	47 33	75 45	61 32	35 27	56 19	62 23	42.5 22.8	
HAWARDEN	MAX MIN	24 10	22 -5	39 16	56 28	56 28	66 35	50 10	20 4	23 10	22 16	25 0	20 -9	20 -4	40 -1	42 6	36 23	30 19	30 12	35 26	34 12	44 28	47 32	47 32	66 39	56 32	33 27	35 17	53 27	59 35	39.3 18.4		
IDA GROVE 4S	MAX MIN	29 10	24 3	41 18	53 28	54 34	68 35	59 35	19 1	24 6	25 12	24 7	23 -2	31 4	45 15	41 25	29 26	29 20	32 19	36 24	46 27	53 23	50 33	43 30	74 38	60 32	34 25	39 14	55 25	64 37	41.1 19.9		
INDEPENDENCE 2W	MAX MIN						48 31	49 35	41 3	24 5	30 13	30 13	21 1	22 1	38 3	37 11	37 22	37 23	29 10	30 19	39 23	38 28	40 23	47 31	40 30	45 35	60 34	39 24	36 19	45 22	57 29	38.9 19.8	
INDIANOLA	MAX MIN	32 13	23 1	44 18	59 30	58 35	69 34	62 26	27 6	24 12	31 17	31 14	25 7	29 8	47 16	44 23	45 29	33 22	30 23	34 25	38 31	46 29	56 27	50 36	50 44	77 34	69 29	35 20	41 24	57 24	65 36	44.5 23.5	
INWOOD 2W	MAX MIN	23 5	19 -12	37 12	52 25	51 31	64 34	57 8	19 2	20 9	19 14	18 5	17 -7	18 -11	32 2	36 3	39 20	37 25	27 15	29 18	32 25	33 27	45 15	42 29	45 33	60 35	49 32	30 25	34 15	51 27	57 34	36.5 16.9	
IOWA CITY AP CAA	MAX MIN	25 6	16 -1	34 13	50 9	52 33	57 33	56 26	26 10	26 12	36 20	34 16	27 14	27 12	48 22	40 28	39 26	36 20	32 25	39 29	39 23	42 29	50 23	43 34	49 32	70 42	59 36	36 24	39 24	51 24	58 36	41.1 22.8	
IOWA FALLS 1N	MAX MIN	22 6	16 -11	30 12	45 14	44 28	48 32	47 40	19 1	27 7	21 12	27 8	24 3	37 9	37 17	37 28	30 22	28 18	17 23	29 29	32 27	38 24	41 24	46 35	43 30	64 35	62 35	37 27	37 20	43 25	56 32	37.3 19.5	
JEFFERSON	MAX MIN	28 10	22 1	35 20	54 24	48 33	65 35	56 28	29 5	33 12	27 17	27 9	19 4	25 3	41 12	39 21	45 32	41 27	29 24	34 21	37 26	45 30	55 26	48 36	45 30	75 40	61 35	36 27	38 26	55 38	60 22	41.1 22.7	
KEOKUK L D 19	MAX MIN	43 23	32 5	26 4	48 23	58 32	55 36	63 36	58 12	26 12	39 15	43 24	36 19	29 15	48 25	43 29	45 30	47 24	35 24	33 25	39 30	35 24	45 29	43 31	54 32	54 33	72 45	54 33	38 26	40 28	45 30	43.4 25.1	
KEOKUK WBO	MAX MIN	29 10	24 3	38 20	59 31	63 40	66 37	60 18	24 10	25 14	42 21	33 21	26 18	31 14	49 21	42 27	46 30	45 26	32 24	30 25	36 27	36 32	45 29	53 36	53 33	77 47	54 36	37 30	41 26	54 26	55 41	43.8 26.0	
KEOSAUQUA STATE PK	MAX MIN	34 16	26 4	40 19	60 28	64 38	68 36	59 37	27 10	41 15	40 19	26 25	33 14	41 18	48 25	43 31	35 32	32 23	25 25	32 28	38 32	36 32	46 32	55 25	55 37	76 47	71 41	41 24	43 24	57 39	46.5 26.4		
KNOXVILLE 2W	MAX MIN	33 13	22 2	42 20	57 31	59 37	69 37	61 29	29 6	23 11	34 20	34 17	23 10	28 11	47 17	42 24	46 26	34 23	35 24	38 23	43 31	46											

DAILY TEMPERATURES

IOWA
MARCH 1950

Table S-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
LOGAN	MAX MIN	31 10	24 0	43 20	57 21	57 31	70 36	60 18	21 5	29 12	28 18	25 8	21 1	28 1	44 15	45 22	52 27	45 26	32 23	30 20	35 24	36 28	50 25	57 31	53 34	49 31	77 44	62 30	32 26	38 17	59 24	63 37	43.6 21.5
HARLETON 5NW	MAX MIN	28 8	23 -3	40 19	54 27	54 31	67 35	57 10	21 4	27 10	25 15	21 5	17 0	23 -2	38 5	42 18	48 25	40 26	30 22	30 20	34 26	33 28	50 23	53 31	50 33	48 30	74 39	59 32	34 25	36 19	58 24	61 38	41.1 20.1
MAQUOKETA 5E	MAX MIN	30 10	15 -6	27 4	44 23	51 35	50 32	48 38	45 24	24 8	33 18	33 24	25 12	24 7	44 6	37 18	32 25	36 27	32 16	29 22	40 27	36 31	37 32	47 27	43 31	47 32	58 38	61 29	39 23	37 25	45 32	53 32	38.8 22.4
MARSHALLTOWN	MAX MIN	21 10	15 -5	33 15	50 16	48 35	53 32	50 37	46 -20	22 6	30 17	28 18	20 5	26 8	41 12	37 19	40 25	30 28	32 21	28 21	36 25	39 30	42 30	51 25	47 29	46 28	71 37	71 36	38 26	38 23	46 25	58 34	39.8 21.0
MASON CITY 3N	MAX MIN	24 2	15 -8	26 9	42 12	45 33	45 28	47 25	25 2	20 5	24 14	20 8	19 -1	22 -1	36 6	32 13	34 25	36 22	30 15	28 19	34 24	36 30	42 28	42 23	41 34	39 29	48 35	52 34	34 25	37 20	40 25	53 30	34.5 18.2
MASON CITY AP CAA	MAX MIN	19 -2	14 -8	26 10	42 12	45 30	44 30	45 11	15 2	20 5	24 14	19 6	15 -3	21 0	35 2	31 13	36 26	37 19	30 15	28 19	34 24	36 30	39 27	40 25	39 33	38 29	51 35	47 32	33 23	34 19	39 27	50 32	33.1 17.3
WILFORD 4NW	MAX MIN	23 5	17 -8	32 15	48 17	49 33	57 33	52 5	0	16	20	23	36	34	41	38	29	30	33	35	46	45	42	38	51	50	32	34	46	55	37.6 17.6		
MILLERTON	MAX MIN	32 11	26 4	44 18	59 28	62 34	68 34	59 27	28 6	27 14	37 18	37 17	23 10	30 9	52 13	45 22	51 28	45 28	33 24	30 22	35 25	39 30	46 28	56 26	52 26	53 28	77 46	67 32	37 21	41 21	55 34	63 34	45.5 22.9
MISSOURI VALLEY	MAX MIN	30 12	26 1	46 22	64 33	63 31	73 38	60 14	23 7	34 14	28 19	25 8	22 2	31 4	46 20	45 23	54 28	50 28	33 24	34 21	37 25	39 29	53 23	60 35	56 35	52 34	78 49	61 32	40 20	62 26	66 43	45.9 23.5	
MOUNT AYR 2N	MAX MIN	37 32	32 2	46 18	60 29	61 34	69 38	57 25	26 6	30 14	33 19	32 13	21 9	31 6	51 18	57 29	51 32	42 30	34 24	31 22	34 25	36 30	48 28	63 36	54 28	52 36	76 46	64 34	40 28	42 21	53 22	57 39	44.3 24.8
MOUNT PLEASANT	MAX MIN	33 15	23 1	36 17	56 28	60 31	62 36	58 36	37 9	27 13	41 20	38 26	27 17	30 14	51 16	41 23	42 30	43 34	35 22	31 25	39 28	36 32	43 32	51 25	48 31	53 28	75 45	69 39	40 32	42 23	53 23	57 38	42.5 25.5
MUSCATINE NO 1	MAX MIN	33 13	19 -1	33 11	55 27	58 37	57 36	55 44	44 11	25 12	37 21	36 23	29 16	30 13	51 18	41 22	47 33	39 31	34 25	30 32	34 32	36 25	48 34	63 43	54 38	52 44	76 44	64 50	40 36	43 34	40 25	53 37	57 34.4
NEW HAMPTON	MAX MIN	15 -5	13 -15	23 -5	39 9	42 25	43 25	48 24	32 -2	22 -3	24 9	33 2	20 -5	22 -4	38 5	34 4	35 17	29 16	31 4	35 12	37 17	39 24	43 24	38 17	40 28	44 28	50 29	56 29	36 20	34 12	40 17	55 24	34.4 11.9
NEWTON	MAX MIN	29 11	15 -1	36 15	55 27	54 34	61 36	53 27	27 4	24 11	32 19	31 13	22 7	28 9	45 11	40 22	46 30	39 27	34 20	29 22	36 22	41 31	45 28	53 31	47 28	49 30	74 43	65 33	35 29	39 22	51 24	63 38	41.9 23.0
NORTHWOOD	MAX MIN	25 3	15 -9	26 6	41 12	45 33	44 30	46 38	1 4	20 13	22 7	18 -1	21 -2	34 2	43 9	45 24	54 20	50 13	33 17	27 23	28 29	33 28	36 24	41 32	40 29	38 34	43 33	45 24	38 19	34 25	59 30	64 30	45.7 17.7
NORWICH 2E SCS FARM	MAX MIN	34 19	25 3	47 23	65 26	64 34	64 41	65 21	25 8	34 15	31 20	31 11	20 6	30 8	49 20	43 26	52 31	48 31	35 25	31 22	34 25	35 29	47 25	56 32	51 34	51 33	76 34	60 34	32 28	38 22	57 22	63 40	43.3 23.8
OAKLAND 2E	MAX MIN	31 15	25 1	43 21	61 26	58 28	69 35	60 20	22 6	30 13	29 19	27 10	20 3	27 3	43 9	41 23	50 30	42 29	33 20	30 25	34 28	35 25	47 29	56 35	51 30	51 42	76 42	60 32	38 26	57 18	63 21	43.3 22.1	
ONLWEIN	MAX MIN	25 5	13 -6	25 3	44 20	44 34	46 32	49 34	35 6	21 6	30 14	28 13	20 5	23 4	38 4	33 10	34 24	34 24	29 10	40 19	37 26	40 31	44 32	40 22	44 35	48 34	75 38	61 37	33 24	37 22	58 44	63 55	42.9 19.9
ONAWA	MAX MIN	34 10	24 0	40 21	56 29	59 29	69 35	61 13	20 6	29 12	28 17	22 3	18 -1	24 -1	39 12	44 18	51 25	46 27	31 22	32 22	35 26	34 28	51 25	56 32	52 34	48 32	75 41	61 31	33 26	37 18	58 25	63 39	42.9 21.2
OSAGE	MAX MIN	26 5	14 -8	24 5	40 16	43 34	44 31	46 40	40 3	20 5	23 15	21 8	18 1	22 -1	36 2	31 11	32 25	36 22	28 13	29 19	33 24	33 31	52 31	41 25	41 30	40 32	48 35	54 35	44 25	39 19	44 24	53 30	49.0 19.0
OSCEOLA	MAX MIN	32 14	25 2	44 19	59 29	61 35	68 35	61 25	28 6	28 15	34 17	33 14	22 8	28 7	48 17	44 22	52 29	45 28	34 23	30 21	34 24	39 27	46 27	58 35	52 27	55 35	76 42	66 32	40 27	42 21	53 24	62 38	43.8 23.2
OSKALOOSA	MAX MIN	31 13	22 2	56 29	58 29	65 35	57 30	30 8	23 14	36 21	36 17	24 13	29 14	51 16	41 23	47 30	40 29	30 22	31 24	35 28	38 32	45 25	54 35	48 28	50 35	76 45	60 37	40 30	42 22	53 22	62 39	43.1 24.8	
OTTUMWA AP CAA	MAX MIN	27 9	21 3	40 20	57 29	58 37	64 35	55 18	23 9	24 14	37 19	33 14	24 13	29 14	50 16	41 23	48 30	48 25	33 23	33 24	34 28	34 32	45 31	53 27	50 33	47 31	74 46	60 35	36 29	37 22	54 25	61 39	41.6 24.3
PEREY 2SE	MAX MIN	30 10	22 0	38 18	56 27	55 30	66 33	57 26	26 6	24 10	28 16	27 9	20 4	24 4	42 13	40 23	48 31	40 28	30 24	30 21	34 23	34 29	45 26	53 28	50 35	47 29	74 41	60 33	36 28	37 22	54 26	61 36	41.6 22.2
POCAHONTAS 2SE	MAX MIN	26 4	19 -12	46 15	46 15	56 34	56 29	39 20	20 2	20 7	22 8	20 -2	22 -1	30 12	35 18	37 19	30 20	30 18	29 19	34 26	34 19	39 29	44 19	46 34	43 35	43 38	59 60	60 38	33 32	38 18	49 26	56 34	38.9 19.3
PRINGEAR	MAX MIN	35 8	20 -7	36 16	53 26	52 35	66 34	62 18	21 1	21 7	24 10	26 5	18 -4	18 -7	33 1	35 14	43 27	43 21	32 11	30 19	33 24	34 27	43 19	46 31	43 33	43 30	59 36	54 33	33 25	33 15	49 27	56 34	38.9 18.4
RED OAK	MAX MIN	31 12	26 3	45 23	64 25	64 29	71 39	57 15	24 7	34 14	30 20	28 9	21 5	30 5	46 16	42 23	51 31	40 29	36 25	31 22	36 25	36 30	50 27	59 30	54 28	54 29	78 30	57 32	33 28	36 21	58 22	63 39	44.7 22.6
ROCK RAPIDS	MAX MIN	23 5	3 -9	35 16	51 22	52 31	65 34	54 8	19 3	20 10	20 15	17 6	16 -3	17 -6	31 -1	34 5	39 29	35 21	30 15	33 19	32 26	33 27	43 18	42 29	44 34	40 29	54 36	50 32	33 25	33 17	49 28	56 34	36.3 17.9
ROCKWELL CITY	MAX MIN	26 8	19 -2	34 17	54 23	49 35	62 32	49 17	19 5	22 8	25 13	23 6	20 1	25 0	40 9	36 16	45 29	39 26	29 21	29 20	33 22	37 30	47 23	52 28	45 35	43 31	70 38	57 35	35 27	38 19	53 26	59 35	39.2 20.6
SAC CITY	MAX MIN	25 8	23 -2	40 18	56 27	57 34	69 34	54 9	20 3	24 8	25 13	22 5	19 0	25 0	40 9	38 16	47 29	39 26	30 21	29 21	33 23	33 24	48 29	54 34	45 32	46 32	74 39	60 34	36 26	37 19	54 27	60 37	36.0 20.4
SANBORN	MAX MIN	24 6	19 -8	35 16	49 26	51 34	64 34	56 9	17 1	20 6	20 12	18 4	18 -6	15 -6	31 5	35 11	41 29	37 21	29 15	30 18	32 25	32 26	40 18	44 30	42 32	42 29	57 35	54 32	33 24	32 15	47 28	51 32	32.7 17.8
SARATOGA 2E	MAX MIN	23 3	11 -11	23 0	39 14	41 34	42 30	46 37	38 3	18 3	22 12	20 8	17 -4	20 -5	33 0	31 3	34 22	26 21	26 17	33 23	34 30	35 23	37 30	41 23	38 33	38 33	41 34						

SNOWFALL AND SNOW ON GROUND

IOWA
MARCH 1950

Table 7

Station	Day of month																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Algona	0.2						T	T	0.8	1.4	2.3					T					3.4	1.0									0.5		
Ames 3 SW	T		0.5				T	0.5	T	1.0	0.5	T								0.5	1.5										T		
Atlantic AP CAA	T	T	T				0.6	0.1	T	2.3	0.2	T	2	2	T				T	1.0	0.1	2.9	T					T	T	T			
Burlington WB AP	T		0.5				T	T	T		T					0.3				1.5	0.1	T	T			T					T		
Castana 4 E							T	T	T	5.3	5	5	3	T						T	T	1.8						T	T	T			
Cedar Rapids No. 1		T	1.0	0.6				0.4	T	T	1.4	T	1	1	1	T	0.2	0.7		T	0.1	0.4	0.7	T							T		
Cherokee	T	T	T				1.5	T	1.0	4.0	1.0	6	5	5	4	3	T	T	T	T	2.5	0.5									0.5		
Clinton No. 1	0.1		0.8					0.3			2.0	2	2	1																			
Council Bluffs 5 NE								T	T	T	0.3	0.2								3.0	T	2.0	T								T		
Davenport WB City	T		0.7				T	T	T	0.5	0.3	T						0.7		0.2	0.3	T			T	T					T		
Decorah 2 S			2.0																2.5														
Denison 1 S										3.0	T	3	3	3	1							2.0										T	
Des Moines WB AP	T	T	0.7				0.6	0.1	T	1.3	T	T	T			T	0.2			3.9	1.3	T										T	
Dubuque WB City	0.3	T	1.5				0.2	0.4	T	4.9	0.2	5	5	5	3	T		1.6		0.1	T	0.9	T		T						T		
Fort Dodge		T	T				3.0		T	4.0	6	6	5	4	T	T				T	2.0	2.0									0.5		
Grinnell	T		1.0	0.5			2.0	T	T	1.0	1	1	1	T						5.0	0.5	T									T		
Guthrie Center			0.4				1.0	2.0		2.0	2.0	4	4	4	1					2.0	2	1.0										T	
Iowa City AP CAA	T		1.0				1.0	0.1		0.4	0.4	T	T					1.0		0.3	0.2	T										T	
Iowa Falls 1 N	T	T	1.5				1.0	T	T	3.0	3	5	4	3	2	T	1	1	1	1	1	3	1	1	1	T	T	T	T	T	T	T	
Keokuk WB City		T	T	T				T	T											2.0	1.0	T	T									T	
Lamoni AP CAA		T	0.6				0.4	0.3	T	0.3	T	T	T			T	1.0			1.7	T	2.4	T									T	
Maquoketa 5 E	T	5	1.5				0.4		T	3.5	4	3	3	T				2.2		T	T	2.0	0.5		T							T	
Marshalltown			1.0							1.0	1									T	1.5	1.0										T	
Mason City AP CAA	T	T	0.3				T	T	0.2	3.6	0.3	T	T	2	2	2	0.3	T	1	T	T	2.3	T		T						0.2	0.1	
Norwich 2 E SCS Farm							T	T										0.2		3.0	1	5.0	3	1								T	
Oelwein	T		T							8.0	8							1.0				1.0											T
Osceola			0.5				T	0.4	0.2	T	0.3									4.0	2	2.0										T	
Oskaloosa		0.2	0.8		T			1.0		T	1.0								0.3		3.2	0.5	0.2									T	
Ottumwa AP CAA	T		0.8				0.5	T	T	T	0.1	T	T						0.3		1.0	T	0.1	T								T	
Rock Rapids	T	2	1	T			1.0	T	1.3	4.5	1.0	8	8	8	6	4	2	2	T	T	1	T	3.8	1	T						0.5		
Saratoga 2 E	T									9.0	9							1.0				1.0				T	T					T	
Shenandoah										T	T									3.0	2	2.5	T									T	
Sioux City WB AP	T	1	T	T			3.4	T	0.3	3.1	T	6	6	6	4	2	T	1	1	T	0.1	0.1	1.5	T	T						0.2		
Spencer 1 N							T			1.0	5.0	6	6	6	6	3	3	3	2	1	1	2.0	T	T								T	

See reference notes following Station Index.

STATION INDEX

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0084	Union	9 41 02	94 12 1200	6P	6P	Fred E. Lamb	2 3 5		Morse 4 mi. SW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	2 3	
Akron	0088	Plymouth	1 42 49	96 33 1153	6P	6P	Orian C. Moore	3		Mount Ayr 2 mi. N	5769	Ringgold	9 40 44	94 14	1214				H. L. Cornelson	2 3 5	
Albia	0112	Monroe	6 41 02	92 48 949	6P	7A	Arthur L. Freed	2 3 5		Mount Pleasant	5796	Henry	21 40 57	91 32	730				A. M. Patterson	2 3 5	
Algona	0133	Kossuth	6 43 04	94 14 1200	7P	7P	Harry B. Rolte	2 3 5 7		Muscatine	5823	Woodbury	11 42 29	96 04					Elmer W. Widmark	2 3 5	
Allerton	0149	Wayne	9 40 43	93 23			Herman H. Reddy	3 4 5		Muscatine No. 1	5837	Muscatine	14 41 25	91 03	680				F. J. Bauerbach	2 3 5	
Allison	0137	Butler	4 42 46	93 47 1060	7P	7P	D. Tollinghuisen	3 3 5		Muscatine No. 2	5842	Muscatine	14 41 25	91 03	546				Robert B. Hagy	2 3 5	
Alta	0173	Buena Vista	20 42 40	95 15 1513	7P	7A	F. Edna Allen	2 3 5		Muscatine 6 mi. N	5847	Muscatine	14 41 30	91 03					CLARENCE	1-2-50	
Alton	0173	Buena Vista	7 43 59	96 01 1305	7P	7P	W. S. Blagle	2 3 5		Muscatine 3 mi. NW	5872	Floyd	4 42 59	92 34	890				William A. Cory	2 3 5	
Ames 3 mi. SW	0205	Story	21 42 00	93 38 1004	7P	7P	Charles R. Brown	2 3 4 5 6 7		New Hampton	5952	Chickasaw	27 43 04	92 19	1156				Lody Hrdlicka	2 3 5	
Amos 1 mi. NW	0213	Jones	27 42 07	91 18 873	7P	7P	State Refractory	2 3 5		Newton	5982	Jasper	21 41 43	93 04	850				Al A. Scheel	2 3 5	
Atlantic 1 mi. E	0364	Cass	16 41 24	94 29 1110	6P	7A	Roy L. Fancolly	2 3 5		North English	6076	Iowa	4 41 29	92 05	789				Ernest E. Andrews	2 3 5	
Atlantic AP CAA	0369	Cass	16 41 24	95 02 1152	MID	MID	Airways Com. Sta.	2 3 4 5 7		Northwood	6103	Worth	4 43 27	93 13	1222				Charles A. Walker	2 3 5	
Audubon 2 mi. S	0385	Audubon	16 41 43	94 57 1297	6P	6P	Ralph E. Kibby	2 3 5		Norwich SCS Exp. Fa. SE	6119	Paine	22 40 45	95 12	1132				Soil Cons. Service	2 3 4 5 7	
Augusta	0369	Des Moines	21 40 46	91 17 523	5A	5A	Glen Wood	3		Oakland 2 mi. E	6151	Pottawattamie	18 41 19	95 33	1150				Ward D. Heinke	2 3 5	
Bancroft	0463	Kossuth	8 43 18	94 13 1200	7P	7P	Guy D. Hart	2 3 5		Oaia	6186	Johnson	10 41 43	91 24					Ed. Kadara	2 3 5	
Bartlett 3 mi. E	0493	Premont	26 40 53	93 44	6P	6P	R. L. Kilpatrick	3		Osawa	6200	Payette	27 42 40	91 55	1036				Milo M. Frame	2 3 5	
Beaver	0549	Boone	8 42 02	94 08	6P	6P	Virgil J. Stark	3 4		Osage	6243	Monona	15 42 02	96 06	1050				W. J. Oliver	2 3 5	
Bedford 1 mi. W	0576	Taylor	28 40 41	94 44 1315	6P	6P	H. J. Chambers	2 3 5		Osceola	6305	Mitchell	4 42 17	92 48	1170				L. J. Lamprocht	2 3 5	
Belle Plaine	0600	Benton	10 41 54	92 17 855	7P	7P	Walter C. Habe	2 3 5		Osceola	6316	Clarke	8 41 02	93 46	1136				Ray A. Kerns	2 3 5	
BelleVue Lock & Dam 12	0608	Jackson	14 42 18	96 25 603	7P	7A	U. S. Engineers	2 3 4 5		Oskaloosa	6327	Mahaska	6 41 17	92 40	813				Cliff. Bergstresser	2 3 5	
Bloomington 2 mi. S	0743	Taylor	19 40 36	94 29 1081	5P	5P	Glenn A. Cobb	3		Ottumwa AP CAA 5 mi. N	6289	Wapello	6 41 06	92 27	842				Airways Com. Sta.	2 3 4 5 7	
Bloomfield 2 mi. N	0753	Davis	8 40 47	92 26 825	7P	7P	Mrs. Leo Foster	2 3 5		Ottumwa	6291	Wapello	6 41 00	92 24	820				Winfrey Kinser	2 3 5	
Boone	0807	Boone	6 42 04	93 53 1126	6P	6P	E. G. Kolb	2 3 5		Pella	6327	Marion	6 41 24	93 55	875				Arthur E. Yerriss	2 3 5	
Britt	0923	Hancock	10 43 04	93 49 1234	6P	6P	Rev. B. A. Rust	2 3 5		Perry 2 mi. SE	6366	Dallas	20 41 51	94 06	975				Eugene H. Hartke	2 3 5	
Burlington WB Airport	1063	Des Moines	14 40 47	91 08 695	MID	MID	U.S. Weather Bureau	2 3 4 5 7		Pocahontas	6379	Pocahontas	6 42 44	94 40	1228				Thomas A. McWhon	2 3 5	
Carroll	1233	Carroll	20 42 04	94 52 1280	7P	7A	Ben H. Schenkelberg	2 3 5		Pringhar	6600	O'Brien	11 43 05	93 38	1517				R. A. Ballard	2 3 5	
Cascade	1257	Dubuque	12 42 18	91 00 880	7P	7P	C. J. Weisen	2 3 4 5		Red Oak	6940	Montgomery	16 41 01	95 13	1077				Clarence W. Totty	2 3 5	
Castana 4 mi. E	1277	Monona	11 42 04	95 49	7P	7P	Bob Zimmerman	2 3 5 7		Red Oak 1 mi. NW	6941	Montgomery	16 41 01	95 14					Mrs. W. M. Cozad	2 3 5	
Cedar Falls	1300	Black Hawk	4 42 32	92 27 875	7P	7P	E. J. Cable	3		Remsen	6975	Plymouth	7 42 49	95 58					Municipal P & L Pl.	2 3 5	
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39 813	7P	7A	John T. Furster	2 3 5 7		Ringsted	7058	Kemot	8 43 18	94 20					Harvin A. Trees	2 3 5	
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40	7A	7A	C. M. Simon	3		Riverton	7085	Premont	16 40 41	95 35	920				William Stubbs	2 3 5	
Centerville	1354	Appanoose	5 40 43	92 53 1013	7P	7P	Earl McIntire	2 3 4 5		Rock Rapids	7147	Lyon	1 43 36	96 10	1341				George Ravelling	2 3 5	
Chariton 3 mi. E	1394	Lucas	5 41 00	93 15 940	7P	7P	Ellis Shaw	2 3 5		Rockwell City	7161	Calhoun	20 42 24	94 37	1233				F. C. Beiselspacher	2 3 5	
Charles City	1403	Floyd	4 43 04	92 40 1013	MID	MID	U.S. Weather Bureau	2 3 4 5 7		Sac City	7212	Sac	20 42 36	94 59	1274				W. Floyd Weary	2 3 5	
Cherokee	1442	Cherokee	11 42 45	93 33 1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7		Saint Ansgar 2 mi. S	7326	Mitchell	4 43 21	92 55					Irvin L. Halverson	2 3 5	
Clarinda	1526	Cedar	4 41 53	91 03	7A	7A	Ronald L. Warkness	3		Saint Charles	7340	Madison	0 41 16	93 47					Rose E. Wine	2 3 5	
Clarks	1533	Page	17 40 44	95 01 1004	7P	7A	Walter L. Harkland	2 3 5		Sandborn	7388	O'Brien	7 43 11	95 39	1552				Mias Sule O. Dow	2 3 5	
Clinton	1541	Wright	2 42 44	93 44 1170	7P	7P	George Reeder	3 5		Saratoga 2 E	7410	Howard	22 42 22	92 22					Don A. Fairchild	2 3 5	
Clinton No. 1	1635	Clinton	14 41 50	90 11 589	7P	7P	Samuel W. Williams	2 3 5 7		Sheffield	7572	Franklin	4 42 54	93 13					Richard J. Galvin	2 3 5	
Clinton No. 2	1640	Clinton	14 41 50	90 11	7A	7A	David M. Swift	3		Sheldon	7594	O'Brien	7 43 10	95 51	1419				Rosa E. Forward	2 3 5	
Columbus Junction	1731	Louisa	10 41 17	91 22 595	6P	6P	Alice Best	2 3 5		Shell Rock	7602	Butler	4 42 43	92 35					Elmer J. Apfel	2 3 5	
Cora Rapids	1793	Carroll	20 41 51	94 39	7P	7A	Charles W. Smith	3 4		Shenandoah	7613	Page	16 40 46	95 23	974				Earl Jay Seed Co.	2 3 5	
Corning 1 mi. W	1833	Adams	17 41 00	94 45 1285	7P	7A	W. Earl Gibson	2 3 5		Sibley	7664	Osceola	1 33 24	95 45	1494				E. D. Steward	2 3 5	
Council Bluffs 6 mi. NE	1868	Pottawattamie	41 20 05	95 49	7P	7A	Mrs. H. O. Crane	3 4		Sidney	7669	Premont	16 40 45	95 38	1050				James B. Shearer	2 3 5	
Council Bluffs 5 mi. NE	1869	Pottawattamie	41 19 05	95 49	6P	6P	Perry C. Crandall	2 3 5 7		Sigourney	7678	Keokuk	21 41 20	92 12	780				Grace L. Sanderson	2 3 5	
Cresco	1954	Howard	23 43 22	92 07 1285	6P	6P	Guy D. Humphrey	2 3 5		Sioux Center	7700	Sioux	1 43 05	96 12	1458				Richard J. Kroon	2 3 5	
Creston	1967	Union	19 41 03	94 22 1300	7P	7A	Wells Spangler	2 3 5		Sioux City 8 mi. N	7703	Plymouth	15 42 36	96 24					Leo Vondrak	2 3 5	
Cumberland 3 mi. NW	2007	Cass	17 41 18	95 25 1225	6P	6P	Carl K. Pollock	3		Sioux City WB Airport	7708	Woodbury	15 42 33	96 23 1093					U.S. Weather Bureau	2 3 4 5 7	
Cushing 3 mi. NE	2026	Ida	11 42 30	95 39 1350	7P	7P	H. P. Lasher	2 3 5		Sioux City 4 mi. N	7713	Woodbury	15 42 32	96 25					Dan McKelvey	2 3 5	
Dakota City	2037	Humboldt	6 42 44	94 12 1133	7P	7P	H. S. Brandsgard	2 3 4 5		Sioux Rapids	7726	Buena Vista	11 42 53	95 08 1275					W. A. Simonsen	2 3 5	
Davenport WB City	2069	Scott	14 41 30	90 38 579	MID	MID	U.S. Weather Bureau	2 3 5 7		Soldier	7774	Monona	15 41 59	95 46					John T. Wade	2 3 5	
Decorah	2110	Winnebask	24 43 18	91 48 859	5P	5P	Walter Bates	2 3 5		Spencer 1 mi. W	7844	Clay	11 43 10	95 12 1331					Radio Station KICD	2 3 4 5 7	
Decorah 2 mi. S	2112	Winnebask	24 43 13	91 47 880	7P	7A	Mrs. A. Carlson	2 3 5 7		Spillville	7855	Winnebask	14 43 12	91 57					Louis J. Benda	2 3 5	
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23 1083	7P	7A	Clair E. Paris	2 3 5		State Center	7925	Marshall	10 42 01	93 10 1068					Otha A. Sweet	2 3 5	
Denison 1 mi. S	2171	Crawford	4 42 00	95 22	7P	7A	E. M. Rugg	2 3 5 7		Storm Lake 2 mi. E	7979	Buena Vista	20 42 38	95 11 1455					Radio Station KAYL	2 3 5	
Derby	2195	Lucas	5 40 36	93 27	6P	6P	Lloyd A. Kirk	3 4		Strawberry Point	8009	Clyden	14 42 41	91 31					W. H. Swankiger	2 3 5	
Des Moines WB Airport	2203	Polk	6 41 32	93 39 954	MID	MID	U.S. Weather Bureau	2 3 4 5 7		Tabor 6 mi. NW	8131	Hills	15 40 57	95 43					Raymond C. Yates	2 3 5	
Des Moines WB City	2208	Polk	6 41 35	93 37 800	MID	MID	U.S. Weather Bureau	2 3 4 5		Tingley	8255	Ringgold	19 40 51	94 12 1275					James A. Verploegh	2 3 5	
Dexter	2240	Dallas	6 41 30	94 14	7P	7A	Joseph R. Marlan	3 4		Tipton	8266	Cedar	4 41 46	91 06 818					Edward E. Deann	2 3 5	
Donnellson 4 W																					

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
HARRY D. LINN, Secretary

CLIMATOLOGICAL DATA

IOWA

APRIL 1950
Volume LXI No. 4



KANSAS CITY: 1950

IOWA - APRIL, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of April 1950, being cold, windy and cloudy, was the most backward spring month over the State of Iowa since April 1920. For three weeks out of the month, daily temperatures were consistently much below normal which resulted in an over-all State temperature average of only 42.6° or 6.3° below normal. In fact, Iowa weather of March 1948 was 4.4° warmer than this month of April. The second factor in the backward spring was the fact that the first twenty days of the month continued the dry weather pattern that has been established in prior months. This combination of low temperatures and minimum precipitation retarded all vegetative growth and very little development of spring seedings was noted throughout this period. The rains and snow of the last ten days brought the State-wide precipitation average to 2.76 inches or .15 inch above the April normal.

The weather of the month began rather cool; in fact, patches of frost remained in the ground in central and northern counties. Also, in general, rain was needed in most sections. The deficiency of subsoil moisture which had developed since last fall, further accentuated this need for moisture. On the 3rd, over the southern counties, and in particular Taylor, Union, and Warren counties, rather generous amounts of moisture fell but mostly as snow. At Creston, rain and snow combined left 1.44 inch in moisture of which 8 inches of snow remained on the ground.

On the 8th-9th, heavy rains coupled with below-freezing temperatures produced a belt of severe icing over the east and northeast. See storm report below. Only light snow or snow flurries were reported over western and north central counties. With the continuation of the very cold weather, very little progress had been made in the spring work program by the middle of the month. The Department of Agriculture estimated that only 49% of the oats were seeded compared to 86% a year ago. Of the early oat seeding, much of the seed had either not sprouted or otherwise shown little development due to the low temperatures. Pastures similarly had shown very little new growth the first half of the month. The only noticeable warming during the month was during the temporary periods 16th-17th and 22nd-23rd. The April high was registered at Glenwood with a reading of 94° on the 23rd.

The much needed rains came to Iowa during the period 22nd-25th. In general the eastern half received over one inch with up to over four inches in moisture in Louisa and Des Moines counties along the Mississippi River. At the Burlington Airport, 4.36" of rain fell within a 24-hour period causing local flooding in the City of Burlington and raising creeks to rather high stages. Locally strong winds and some hail accompanied the showers and thunderstorms. In Hardin County near Eldora, strong winds destroyed several barns and smaller buildings. Brief periods of hail the size of walnuts caused additional damage. In Monroe county near Albia, strong and gusty winds ripped four large steel grain bins from their foundations; other minor losses were reported. Nevertheless, the area bounded by Monona to Dickinson to Lyon counties in the northwest did not receive significant amounts of moisture during this rainy period.

The final period of showers occurred on the last two days of the month. The distribution of these rains was such that the dry northwest received the heavier amounts with two-day totals ranging from 1/2 to over 1 inch. Monthly totals of rainfall revealed that the western three districts were 1/2 to 1 1/2 inches deficient while the eastern third of the state had 3/4 to 2 inches above average. Rainfall in the three central districts was about average.

By the end of the month, the seedings of oats were not completed and due to the lateness of the season, it was apparent that some of the acreage planned for oats would not be seeded. In addition, the sprouting of spring-seeded grains had been slow and the frequent hard freezes had had their effect. Freezing temperatures occurred on an average of 15 days in the southern to 23 days in the northern counties. Winter wheat, as well as pastures and meadows, improved rapidly after the late rains but warmer weather was needed for further progress.

ICE STORM OF APRIL 8 - 9

This storm was a combination of a steady rain, light to moderate winds, and below freezing temperatures. These conditions built up ice coatings on all objects above the ground; the consequences being broken wires and toppled trees. Most of the ice was confined to the area bounded by Highway No. 6 on the south and Highway No. 69 on the west. The center of the severe icing was Clinton county and the City of Clinton suffered heavy losses. Early estimates placed the Clinton losses at over one million dollars. At Clinton, the Iowa National Guard was called out to clear away the wreckage left by one of the worst ice storms in its history. Clinton alone had over 1,400 phones out of order and total damage to telephone company property was estimated at \$200,000. Three major industries were forced to cease operations from lack of power. Electric service was not completely re-established until April 14. Elsewhere in northeast Iowa, some 125 towns were cut off from phone service when 800 toll lines were broken. Many other towns lost their electric power but damage was not so extensive nor so prolonged as in the Clinton area. Since temperatures moderated the following day, the chief hazard to driving was tree-blocked roads. Literally thousands of trees were broken or toppled in the Clinton area from the weight of the ice. Due to the late spring, there was little or no crop damage.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rain fall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
APRIL 1950

Station	Wind direction		Wind speed m p h				Relative humidity averages percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	01-09	10-49	50-99	100-199	200 and over				Total
Burlington WB AP	NW	19	12.9	56	N	23	75	78	57	60	3	7	2	0	1	1	14	53	7.0	606
Charles City WB City	-	-	8.6	24	NW	11	-	-	-	-	3	5	4	3	0	0	15	49	6.2	753
Davenport WB City	-	-	-	-	-	-	-	-	-	-	3	5	7	2	1	1	19	-	-	626
Des Moines WB City	NW †	19 †	12.5	40	NW	10	71†	79†	58†	55†	9	4	5	0	0	0	18	45	7.0†	616
Dubuque WB City	-	-	7.5	25	NW	11	-	-	-	-	13	3	6	1	0	1	24	51	7.4	694
Sioux City WB AP	NW	19	11.8	47	N	10	67	76	49	48	8	5	0	1	0	0	14	68	7.0	662

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	43.2	83	24	3.13			1903	49.8	86	17	2.98	0.8	9	1933	48.8	85	16	1.21	0.2	6
1874	41.9	76	16	1.90			1904	44.1	86	13	3.63	1.4	7	1934	50.4	90	12	1.07	T	4
1875	43.0	77	10	2.20			1905	47.5	90	10	3.03	1.2	8	1935	46.7	86	15	1.92	0.4	8
1876	48.1	78	24	3.06			1906	52.5	94	22	2.42	0.6	8	1936	45.9	92	0	1.10	3.9	7
1877	47.5	91	14	3.33			1907	41.5	80	10	1.32	2.7	6	1937	47.7	85	20	3.20	2.1	13
1878	52.4	82	26	3.14			1908	50.5	91	8	2.24	0.3	8	1938	50.3	87	15	3.66	3.7	10
1879	50.3	88	12	1.13			1909	43.8	86	14	4.58	3.1	12	1939	47.8	93	10	2.07	1.9	7
1880	47.9	92	15	2.08			1910	52.5	99	15	1.48	3.0	7	1940	47.5	89	10	3.22	0.2	11
1881	42.5	84	10	2.26			1911	46.8	86	3	3.09	3.6	9	1941	53.8	86	25	2.50	T	10
1882	48.8	91	20	3.73			1912	49.9	84	20	2.66	1.1	8	1942	54.8	90	19	1.06	T	5
1883	49.9	90	24	2.25			1913	50.2	88	16	3.29	2.7	9	1943	49.0	88	17	2.57	T	8
1884	46.8	86	18	2.54			1914	48.6	88	11	2.52	0.3	8	1944	45.0	78	14	4.55	0.4	13
1885	47.5	80	16	2.94			1915	57.2	95	18	1.41	T	7	1945	48.7	83	11	4.38	4.3	9
1886	50.3	88	4	2.70			1916	47.1	90	11	2.62	1.1	10	1946	53.9	91	15	1.23	0.5	5
1887	51.1	94	9	1.38			1917	45.5	88	17	4.55	3.8	11	1947	47.0	85	19	5.06	1.5	11
1888	48.8	90	20	2.65			1918	44.8	79	12	2.32	3.5	9	1948	54.5	93	17	2.66	.0	8
1889	50.3	86	10	2.35			1919	48.4	81	20	4.78	0.7	14	1949	49.3	91	4	1.33	3.6	5
1890	51.2	88	2	1.73			1920	42.4	78	22	4.59	2.0	12	1950	42.6	94	10	2.76	1.8	8
1891	50.6	93	13	2.15		8	1921	52.4	88	14	3.34	3.6	10	Period	48.8			2.74	1.6	
1892	45.4	88	14	4.75	5.7	9	1922	49.9	87	21	3.06	1.0	9							
1893	45.5	96	15	4.21	6.0	10	1923	48.4	85	11	2.09	0.8	8							
1894	51.7	93	12	3.07	0.2	9	1924	50.5	90	8	1.38	1.4	7							
1895	54.2	98	8	2.62	2.1	5	1925	56.5	95	21	2.20	T	8							
1896	54.5	94	10	5.02	4.5	11	1926	46.1	95	9	0.91	1.5	4							
1897	47.9	89	19	5.35	T	11	1927	49.2	91	15	4.84	2.6	14							
1898	48.1	91	14	2.56	T	8	1928	44.3	88	6	2.24	4.9	8							
1899	48.9	89	1	2.40	2.0	7	1929	51.2	93	9	4.62	1.1	11							
1900	52.2	89	19	2.67	0.9	6	1930	52.1	96	5	2.67	0.3	9							
1901	49.9	92	15	1.79	2.0	5	1931	50.9	92	17	2.29	0.1	8							
1902	48.2	96	9	1.71	T	5	1932	50.0	84	21	1.96	T	7							

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the postoffice.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1330.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

+ And also on a later date or dates.

* Amount included in following measurement, time distribution unknown.

// Gage is equipped with a windshield.

6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.

B Adjusted to a full month.

E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.

M One or more days of record missing; see Table 5 for detailed daily record.

R Station equipped with recording gage only.

T Trace, an amount too small to measure.

V Includes total for previous month.

Z Hourly amounts from a recording gage at the same site may be found in Table 4.

SS This entry in time of observation column in Station Index means observation made near sunset.

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W.B.O., Kansas City, Mo. -- 6-13-50 -- 1090

CLIMATOLOGICAL DATA

IOWA
APRIL 1950

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	41.1	-6.2	79	22	13	13	21	1.46	-1.19	.96	29	T	T	5	7	1		
Alton	42.3	-5.0	79	22	13	13	23	.91	-1.33	.62	29	T	T	5	4	1		
Cherokee	40.4	-7.1	77	22	10	13	22	1.03	-1.29	.85	29	T	T	4+	5	1		
Emmetsburg	40.2		74	17	15	13	20	1.03		.23	24	.0		7	1	1		
Estherville	38.6	-8.4	74	17	13	13	25	1.49	-.88	.78	30	.5	T	5+	8	2		
Hawarden	41.3	-7.0	80	22	14	13	21	.97	-1.38	.68	29	T	T	29	6	1		
Inwood 2 W	39.9	-7.6	75	22	11	13	23	1.05	-1.19	.65	30	7.4	3	30	6	1		
Lake Park	36.7 M	-8.5	70	22	13	13	21	1.18	-.99	.55	29	1.0	T	10+	5	2		
Le Mars	43.0	-5.3	82	22	12	13	17	.54	-1.92	.54	29	T	T	1	1	1		
Milford 4 NW	38.5	-7.3	73	17	13	13	23	1.07	-1.28	.67	29	1.5	2	29	7	2		
Pocahontas 2 SE	38.6 M	-9.4	75	22	14	13												
Primghar	40.4	-6.6	74	22	13	13	22	.86	-1.64	.75	29	T	T		4	1		
Rock Rapids	39.1	-7.7	73	17	15	13	25	1.11	-1.51	.68	29	5.0	3	29	5	1		
Sanborn	39.4	-6.8	75	22	12	13	21	.89	-1.77	.68	29				6	1		
Sheldon	39.1	-7.4	74	22	13	13	23	.96	-1.54	.74	29	1.5	T	4+	7	2		
Sibley	38.2	-7.8	71	17	13	13	25	.98	-1.33	.62	29	1.7	1	29	7	1		
Sioux Rapids	38.8	-8.2	75	17	13	13+	23	1.77	-.98	1.15	29	T	T	10	5	2		
Storm Lake 2 E	41.1	-6.3	77	22	13	13	19	1.54	-1.00	.97	29	T	T	4	9	1		
DIVISION	39.8	-7.2						1.11	-1.36			1.2						
NORTH CENTRAL DIVISION																		
Algona	40.3	-7.3	72	17	16	13	19	3.13	.70	1.40	23	T	T	4	8	3		
Bancroft	40.4	-6.4	75	17	15	13	19	1.80	-.50	.60	29	.4	T		10	2		
Britt	37.3	-9.5	65	17+	13	13+	23	4.07	1.89	1.25	23	.8	T	9	8	6		
Charles City	39.6	-7.1	72	17	20	13	17	2.95	.52	.63	24	.1	T	4+	12	4		
Clarion	40.1	-7.7	75	22	16	13	18	2.72	.12	.65	9	T	T	9+	7	6		
Dakota City	41.0	-7.1	75	22	16	13	18	1.91	-.41	.52	29	T	T		7	4		
Forest City	38.8	-7.5	71	17	16	13	19	3.99	1.81	1.27	24	.5	T	4	9	4		
Hampton	40.5	-6.5	71	17	18	13	19	4.09	1.23	1.60	9	T			9	5		
Mason City 3 N	38.8	-7.7	71	17	19	6+	21	4.67	2.46	2.06	23		1	4	11	5		
Mason City AP CAA	37.9	-8.6	71	16+	18	13+	21	3.91	1.70	1.31	23	.4			12	5		
Northwood	38.9	-7.0	73	16	17	13	22	2.78	.22	.66	10	1.0	1	5	10	4		
Osage	39.7	-6.1	71	16+	19	6+	20	3.27	.83	1.15	24				7	4		
DIVISION	39.4	-7.5						3.30	.88			.3						
NORTHEAST DIVISION																		
Cascade	41.7		79	22	17	6	19	3.90		1.28	24	.4	T	3+	8	5		
Cresco	40.0	-5.5	72	17	15	13	21	3.91	1.48	.95	10	T	T		8	5		
Decorah 2 S	39.0	-5.8	70	16+	14	6+	19	3.94	1.48	1.52	25	T	T	9	10	5		
Delaware 2 W	40.7	-5.9	78	22	14	13	19	3.92	1.30	1.58	24				7	5		
Dubuque Lock & Dam 11	40.3	-8.4	74	22	19	13	18	3.71	1.15	1.57	24	T			11	4		
Dubuque WB City	41.7	-7.0	77	22	21	13	15	4.31	1.75	2.00	23	T	T	8+	11	5		
Elkader	40.2	-7.4	72	17+	14	6	22	2.83	.23	.93	24	.0			6	5		
Fayette	40.5	-6.4	73	17	14	6	20	3.89	1.23	1.12	25		T	26	10	5		
Independence 2 W	40.6	-7.3	76	22	16	13	22	4.61	2.29	1.25	25				7	6		
New Hampton	35.8	-10.9	72	16+	10	6	26	2.72	.33	.57	9	T	T	9	9	5		
Oelwein	40.9	-6.4	72	16+	12	13	18	3.34	.78	1.00	23	1.0	T	4	6	4		
Saratoga 2 E	38.2		70	16+	15	14	22	2.84		.68	24	T	T		9	5		
Tripoli	41.6		72	17	18	13	18	3.53			18	T	T	9+	9	5		
Waterloo AP 5 NE	40.2	-8.2	73	22	18	13	18	3.26	.92	1.21	23	T	T	25	8	4		
Waukon	39.8	-6.8	71	17	16	13	18	4.06	1.60	1.14	24		T	3+	7	4		
DIVISION	40.1	-7.0						3.65	1.16			.1						
WEST CENTRAL DIVISION																		
Carroll	43.1	-5.3	83	22	14	13	18	2.16	-.16	1.08	25	T	T	23	6	2		
Castana 4 E	42.5		87	22	12	13	19	.81		.57	29	.7	T	10+	4	1		
Cushing 3 NE	42.2	-6.1	80	22	15	13	18	2.15	-.12	1.97	29	T	T	4	3	1		
Denison 1 S	42.3	-6.8	86	22	12	13	19	1.17	-1.05	.65	29				5	2		
Guthrie Center	43.2	-6.5	88	22	15	13	19	1.75	-.67	.63	29	T			11	2		
Harlan	45.1	-4.9	90	22	15	13	1	14	2.10	-.26	.70	25	3.0	T	28	6		
Ida Grove 4 S	43.1	-5.5	83	22	11	13	20	1.31	-.96	.52	29	T	T	10+	9	1		
Jefferson	43.9	-4.6	81	22	17	13	16	2.30	-.22	.64	24	T			7	4		
Lake City	42.7	-5.8	78	22	12	13	18	1.82	-.48	.73	29	.0			5	3		
Logan	44.9	-6.0	90	22	13	13	1	18	1.55	-.79	.77	29	4.0	T	10+	4		
Mapleton 5 NW	42.5 M	-6.5	74	17	12	13												
Missouri Valley	46.8	-4.6	91	22	14	13	1	15	1.56	-.62	.65	29	7.0			6		
Onawa	44.1	-6.4	91	22	12	13	1	18	1.25	-1.25	1.05	29	1.0	T	10+	5		
Rockwell City	42.2	-6.2	80	22	15	13	17	1.88	-.62	.90	29	T			6	3		
Sac City	42.8	-5.8	82	22	15	13	18	1.26	-.99	.86	29	T	T	10	6	1		
Sioux City WB Airport	42.8	-6.3	87	22	15	13	19	.83	-1.45	.74	29	.6	T	10	6	1		
DIVISION	43.4	-6.0						1.59	-.75			1.2						
CENTRAL DIVISION																		
Ames 3 SW	43.2	-5.8	79	22	17	13	15	1.40	-1.21	.32	30	T	T	4	9	2		
Boone	43.1	-5.8	80	22	18	13	16	1.52	-1.11	.46	24	T	T	19	10	2		
Des Moines WB Airport	43.8	-5.4	86	22	18	13	17	3.12	.56	1.56	22	5.1	3	3	8	4		
Des Moines WB City	44.2	-5.8	86	22	20	13	12	1.63	-.93	.38	3	3.3	2	3	9	4		
Fort Dodge	41.8	-6.0	75	22	16	13	17	2.11	-.34	.99	25	T			7	2		
Grinnell	43.4	-6.2	85	22	16	13	18	2.90	-.08	1.27	10	4.3	3	3	8	4		
Grundy Center 4 NE	40.8	-6.8	77	22	17	13+	19	3.53	.39	1.98	24				9	1		
Iowa Falls 1 N	41.0	-6.4	72	16+	17	13	17	3.86	1.36	1.25	10	.5	T	4+	6	5		
Marshalltown	41.6	-7.4	80	23	19	6+	19	1.84	-.88	.80	10	.0			8	3		
Newton	44.3	-5.6	88	22	19	13	18	2.84	-.07	.90	24	1.5			8	4		

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
APRIL 1950

Table 2—Continued

Station	Temperature								Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days			
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more	
Perry 2 SE	43.8	-5.2	84	22	17	6+		15	1.65	-.90	.45	30	.1	T			9	2	
Toledo	43.0	-5.1	81	22	18	6+		18	2.99	.29	.98	10	T			4+	11	5	
Waukegan	45.6	-4.0	86	22	20	13		15	2.65	-.28	.55	23	3.0	T		28	8	6	
Webster City	41.9	-5.7	77	22	17	13		17	2.57	.01	.72	9	T	T		9	8	6	
Woodward 7 N	44.6	-4.3	82	22	23	12		16	1.33	-1.22	.36	30	T	T		3+	7	3	
DIVISION	43.1	-5.8							2.40	-.29			1.3						
EAST CENTRAL DIVISION																			
Anamosa 1 NW	42.0	-5.6	79	22	16	13		18	3.90	1.30	1.07	24	3.0	T		9+	10	5	1
Belle Plaine	43.0	-6.1	84	22	18	6+		17	2.93	.04	1.15	9	1.6	1		3	13	3	1
Bellevue L & D 12	41.7	-6.0	68	16+	17	6		19	4.14	1.49	1.52	24	.5	1		4	10	5	1
Cedar Rapids No. 1	42.9	-6.1	84	22	17	6		17	4.65	2.13	1.78	24	1.4	T		5	13	6	1
Clinton No. 1	43.6	-6.2	81	22	20	13		16	6.47	3.52	1.78	9	2.6	3		3	12	7	2
Davenport WB City	43.9	-6.2	81	22	21	13		10	7.93	5.07	2.79	24	.8	T		3+	16	6	2
Iowa City	43.5	-5.9	83	22	20	13		16	4.29	1.37	.90	24	3.0	3		3	14	6	2
Iowa City AP CAA	42.5	-6.9	83	22	19	6		16	4.16	1.24	1.14	9	1.3	1		3	10	4	2
Le Claire L & D 14	42.9	-6.1	75	22	21	13		15	5.53	2.56	1.67	25	.0				15	5	2
Maquoketa 5 E	42.4	-5.5	80	22	18	13		18	5.21	2.48	1.56	24					9	6	2
Muscatine No. 1	44.6	-5.4	84	22	19	13		16	6.07	3.12	2.29	24	1.5	2		3	14	6	1
Tipton	43.7	-5.2	82	22	18	13+		15	6.67	3.73	1.35	24	3.0	3		3	10	7	2
Vinton	42.8	-6.7	74	16	18	12+		17	1.87	-.53	1.12	10	T	T		8+	3	3	1
Williamsburg	44.2 M	-5.5	84	22	19	13													
DIVISION	43.1	-5.8							4.91	2.15			1.6						
SOUTHWEST DIVISION																			
Atlantic 1 E	44.4	-5.6	89	22	11	13		16	1.76	-.79	.44	24	6.4	1		3	7	4	
Atlantic AP CAA	42.7	-7.3	89	22+	13	13		18	1.51	-1.04	.63	24	3.3	1		3+	7	3	1
Bedford 1 N	45.2	-5.8	85	22+	14	13		14	1.54	-1.20	1.17	3	12.5	10		3	3	2	
Clarinda	47.1	-4.1	91	23	14	13	1	13	1.52	-2.08	.60	4	6.3	5		4	8	2	
Corning 1 W	42.7 M	-7.3						14											
Council Bluffs 5 NE	45.6		90	23	14	13	1	20	2.09		.63	24	2.0				8	3	
Glenwood 2 E	46.2	-5.7	94	23	14	13	2	15	2.05	.09	.53	29	2.0	T		3	7	4	
Greenfield	43.2	-6.3	87	22	13	13		16	2.21	-.71	.65	3	7.0	5		3	7	4	
Norwich 2 E SCS Farm	46.6	-4.6	91	23	15	13	1	13	1.40	-1.20	.62	3	4.8	3		3	6	2	
Oakland 2 E	45.0	-5.9	91	23	13	13	2	17	2.11	-.14	.55	29	3.3	3		28	8	3	
Red Oak	45.6	-5.6	90	23	14	14	1	12	1.79	-.84	.58	29	2.5	3		3	9	3	
Shenandoah	47.5	-4.5	93	23	14	13	2	14	1.65	-.95	.63	3	2.5				6	2	
Sidney	47.5		93	23	15	13	1	16	1.47		.60	3	6.0	2		3	4	4	
DIVISION	45.3	-5.7							1.76	-.77			4.9						
SOUTH CENTRAL DIVISION																			
Albia	45.0	-5.5	86	22	19	13		14	2.84	.04	.92	25	3.0	3		4	7	5	2
Centerville	46.1	-5.1	83	22	17	13		15	3.66	.46	1.08	25	2.0				8	5	
Chariton 3 E	45.8 M	-4.2						18	2.26		1.44	4	8.2	3		4	6	2	1
Creston	44.7	-5.2	87	22+	16	13		17	2.41	-.28	.94	23	8.0				9	2	
Indianola	45.7	-5.0	88	22	16	13		17											
Knoxville 2 W	45.6	-5.5	86	22	18	13		15	2.60	-.05	.86	23	4.8	4		3	8	4	
Lamoni AP CAA 4 WNW	44.4		85	22	16	13		15	1.96		.66	3	2.4	2		3	8	4	
Millerton	46.5 M	-3.7	84	22				14	1.51	-2.45	.85	3	6.0	6		3	3	2	
Mount Ayr 2 N	45.7	-4.9	85	22	16	13		14	1.56	-1.34	.60	3	8.0	7		3	8	2	
Osceola	45.9	-4.7	85	22	17	13		16											
Tingley	44.5	-6.0	86	22	15	13		16	1.62	-1.38	.86	3	6.0	6		3	7	2	
Winterset	45.9	-4.7	87	22	15	13		16	1.69	-1.07	.60	3	6.0	6		3	6	3	
DIVISION	45.5	-5.0							2.21	-.69			5.4						
SOUTHEAST DIVISION																			
Bloomfield 2 N	45.6 M	-4.7	86	22	17	14		13	3.55	.45	1.02	24	.0				8	6	1
Burlington WB Airport	44.6	-6.8	82	22	18	13		11	6.24	3.06	4.36	24	T				11	3	2
Columbus Junction	45.0	-5.7	84	22	19	13		15	6.20	3.15	3.00	24	T	1		3	10	5	1
Fairfield	44.1	-6.3	85	22	19	12		17	4.39	1.29	2.00	24	.3	2		3	11	4	1
Keokuk L & D 19	45.1	-7.4	80	24	21	13		8	3.44	.53	1.20	4	.0				10	4	2
Keokuk WB City	46.0	-6.5	83	22	22	13		9	3.40	.49	1.15	25	T	T		4	10	4	2
Keosauqua State Park	47.1	-3.9	86	22	20	13		12	3.55	.53	1.82	24	.5	1		3	9	3	1
Mount Pleasant	45.5	-6.0	84	22	19	13		15	6.23	3.05	4.23	24	2.0	T		3+	8	4	1
Oskaloosa	45.1	-5.2	85	22	20	6+		13	3.33	.52	.78	23	5.7	1		4	13	4	1
Ottumwa AP CAA	44.2	-7.4	85	22	20	13		15	3.25	.32	1.42	24	4.1	2		3	12	3	1
Sigourney	44.9	-5.8	79	23	18	13		16	4.42	1.64	1.35	25	2.0	2		3	11	6	1
Washington	44.9	-5.7	85	22	18	13		17	4.43	1.37	2.25	25	T			8	3	1	
DIVISION	45.2	-5.7							4.37	1.36			1.2						
STATE	42.6	-6.3							2.76	.15			1.8						

See reference notes following Station Index.

HOURLY PRECIPITATION

Table 4

IOWA
APRIL 1960

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-1st-																									
LENOX SPENCER 1N	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-2d-																									
BURLINGTON WB APT CASCADE DAVENPORT WB CITY HINTON 5NW MARSHALLTOWN NO 2 MONONA MUSCATINE NO 1 SIOUX CITY WB APT TRAER	//									.03		.02	.01	.01											
-3d-																									
ALLERTON ATLANTIC AP CAA BELLEVUE L/D 12 BURLINGTON WB APT CASCADE CENTERVILLE COUNCIL BLUFFS 6 NE DAVENPORT WB CITY DERBY DES MOINES WB APT DES MOINES WB CITY DEXTER DUBUQUE WB CITY FOREST CITY GREENFIELD GRINNELL HAMBURG HINTON 5NW IOWA CITY AP CAA IOWA C RALSTON CRK1 IOWA C RALSTON CRK2 IOWA C RALSTON CRK3 IOWA C RALSTON CRK4 IOWA C RALSTON CRK5 KEOKUK WBO KNOXVILLE 2W LAMONI AP CAA 4NW MARION 4NE MORSE MORSE 1NE MORSE 4SSW MOUNT AYR 2N MOUNT PLEASANT MUSCATINE NO 1 NORTH ENGLISH NORWICH 2E SCS FARM OASIS OTTUMWA AP CAA SAINT CHARLES TABOR 6NW WALLIN 2WNW WASHINGTON WHEATLAND	//			.01	.04	.11	.05	.04	.03	.03	.04	.03	.02	.01	.01	.04	.02	.01	.01						
-4th-																									
ALLERTON BELLEVUE L/D 12 CASCADE CENTERVILLE CHARLES CITY DAVENPORT WB CITY GRINNELL IOWA CITY AP CAA IOWA C RALSTON CRK1 IOWA C RALSTON CRK2 IOWA C RALSTON CRK3 IOWA C RALSTON CRK4 IOWA C RALSTON CRK5 KEOKUK WBO MARION 4NE MASON CITY AP CAA MORSE MORSE 1NE MORSE 4SSW MOUNT PLEASANT MUSCATINE NO 1 OTTUMWA AP CAA RINGSTED ST ANSGAR 2S SAINT CHARLES TABOR 6NW WASHINGTON	6									.10															
-5th-																									
ALLERTON AMES 3SW CHARLES CITY MASON CITY AP CAA RINGSTED ST ANSGAR 2S STRAWBERRY POINT	6																								
-7th-																									
MARION 4NE																									
-8th-																									
ALLERTON CASCADE CHARLES CITY DAVENPORT WB CITY FOREST CITY KNOXVILLE 2W MASON CITY AP CAA	6																						.02	.01	.02

See reference notes following Station Index.

HOURLY PRECIPITATION

IOWA
APRIL 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MONONA																								.49	
NORTH ENGLISH																								.08	
OASIS																								.03	
RINGSTED																								.02	
ST ANSGAR 2S																								.03	
SHELL ROCK																								.02	
STRAWBERRY POINT																								.02	
WHEATLAND																								.02	
-9th-																									
ALLERTON																							.05		
AMES 3SW																							.24		
BELLEVUE L/D 12																							.57		
BURLINGTON WB APT																							.04		
CASCADE																							.75		
CENTERVILLE																							.33		
CHARLES CITY																							.60		
CHEROKEE																							.04		
COON RAPIDS																							.04		
DAKOTA CITY																							.10		
DAVENPORT WB CITY																							.90		
DERBY																							.25		
DES MOINES WB APT																							.16		
DES MOINES WB CITY																							.09		
DEXTER																							.12		
DUBUQUE WB CITY																							.69		
FOREST CITY																							.67		
GRINNELL																							1.22		
HINTON 5WNW																							.07		
IDA GROVE 4S																							.09		
IOWA CITY AP CAA																							.01		
IOWA C RALSTON CRK1																							.58		
IOWA C RALSTON CRK2																							.86		
IOWA C RALSTON CRK3																							.54		
IOWA C RALSTON CRK4																							.49		
IOWA C RALSTON CRK5																							.91		
IOWA FALLS 1N																							1.04		
KEOKUK WBO																							.30		
KNOXVILLE 2W																							.38		
LAMONI AP CAA 4WNW																							.30		
LENOX																							.85		
MARSHALLTOWN NO 2																							.77		
MASON CITY AP CAA																							.54		
MONONA																							.53		
MORSE																							.43		
MORSE 1NE																							.23		
MORSE 4SSW																							.09		
MOUNT AYR 2N																							.35		
MOUNT PLEASANT																							.70		
MOVILLE																							.32		
MUSCATINE NO 1																							.19		
NORTH ENGLISH																							.06		
OASIS																							.70		
OTTUMWA AP CAA																							.05		
REMSEN																							.05		
ST ANSGAR 2S																							.78		
SAINTE CHARLES																							.59		
SHEFFIELD																							.01		
SHELL ROCK																							.45		
SIOUX CITY WB APT																							.25		
SPILLVILLE																							.68		
STRAWBERRY POINT																							.17		
TRAEER																							.70		
WASHINGTON																							.36		
WEBSTER CITY																							.34		
-10th-																									
BELLEVUE L/D 12																							.33		
BURLINGTON WB APT																							.17		
CASCADE																							.03		
CENTERVILLE																							.25		
CHARLES CITY																							.07		
COON RAPIDS																							.03		
DAVENPORT WB CITY																							.28		
DERBY																							.24		
DEXTER																							.12		
DUBUQUE WB CITY																							.04		
FOREST CITY																							.37		
GRINNELL																							.34		
IDA GROVE 4S																							.52		
IOWA CITY AP CAA																							.53		
IOWA C RALSTON CRK1																							.31		
IOWA C RALSTON CRK2																							.23		
IOWA C RALSTON CRK3																							.38		
IOWA C RALSTON CRK4																							.05		
IOWA C RALSTON CRK5																							1.28		
IOWA FALLS 1N																							.10		
KEOKUK WBO																							.16		
LARRABEE																							.42		
MARION 4NE																							.36		
MARSHALLTOWN NO 2																							.44		
MASON CITY AP CAA																							.14		
MONONA																							.19		
MORSE																							.05		
MORSE 1NE																							.36		
MORSE 4SSW																							.20		
MOUNT AYR 2N																							.23		
MOUNT PLEASANT																							.10		
MOVILLE																							.20		
MUSCATINE NO 1																							.23		
NORTH ENGLISH																							.10		
OTTUMWA AP CAA																							.20		
REMSEN																							.30		
RINGSTED																							.22		
ST ANSGAR 2S																							.16		
SHEFFIELD																							.13		
SHELL ROCK																									

HOURLY PRECIPITATION

Table 4-Continued

IOWA
APRIL 1950

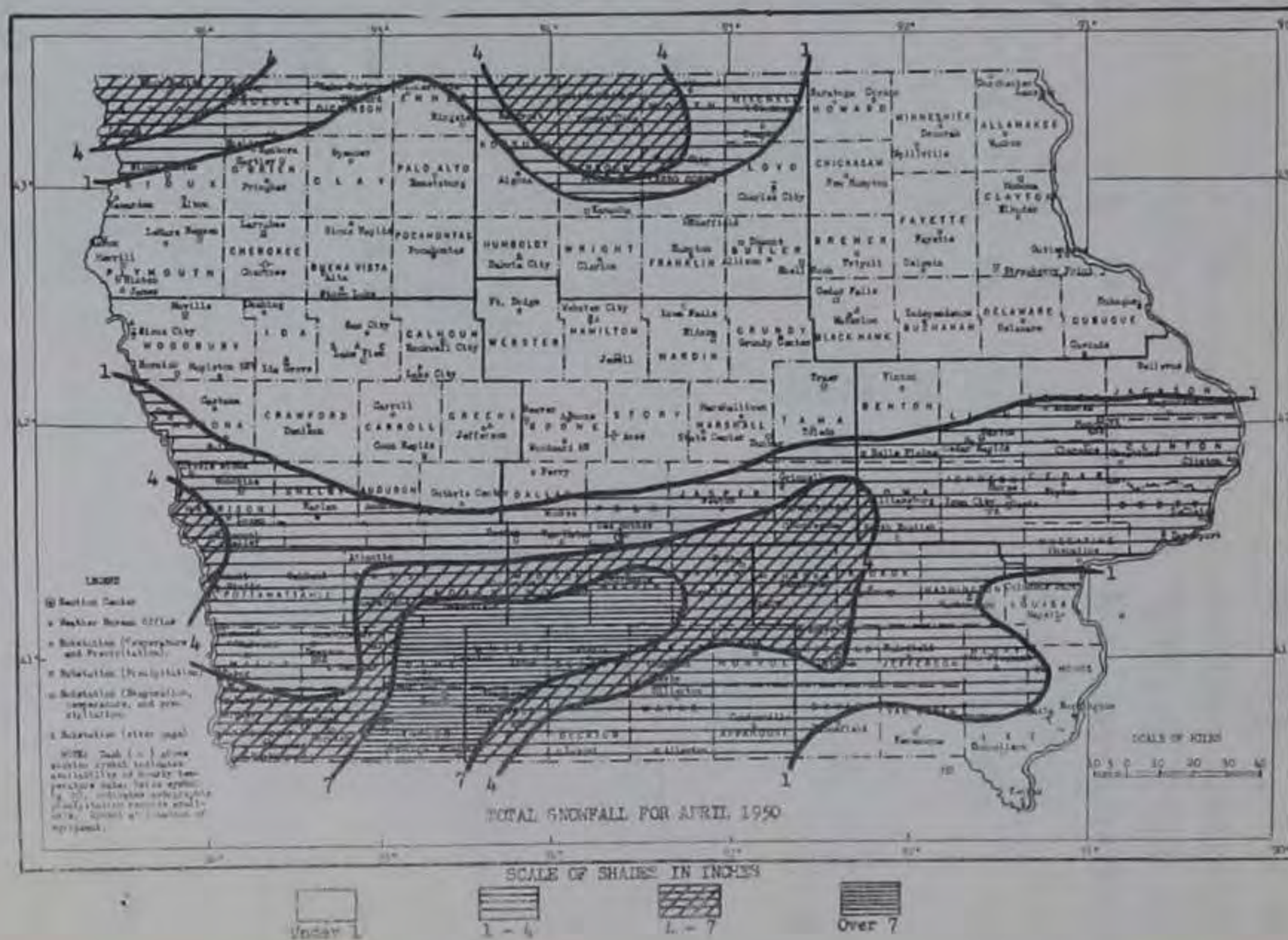
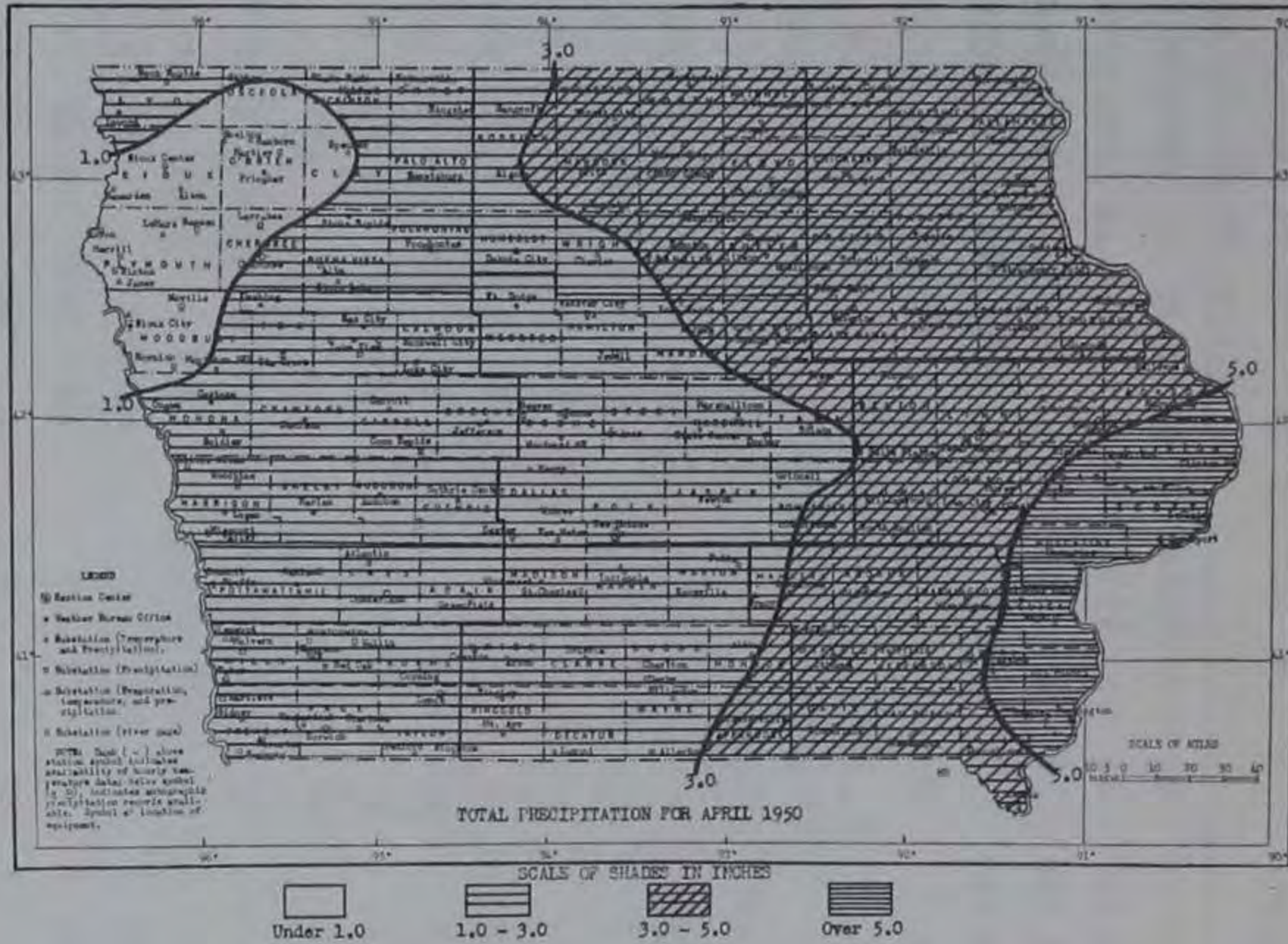
Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
WHEATLAND	*	*	*	*	*	*	*	*	*	*	*	*	1.30	.32											1.62
-11th-																									
MASON CITY AP CAA 6	.03																								
-12th-																									
COUNCIL BLUFFS 6 NE				.02	.03	.04	.01																		.10
HAMBURG						.01	.01																		.02
MISSOURI VALLEY				.04	.04	.02																			.02
NORWICH 2E SCS FARM						.01	.01																		.05
SOLDIER			.02	.03																					.12
TABO 6NW						*	*	*	*	*	*	*													.01
WOODBINE 5SE							.01	.05																	.06
-15th-																									
HINTON 5WNW																					*	*	*	*	
-16th-																									
AMES 3SW																.02	.03			.01					.01
CHARLES CITY																						.02	.01		.06
DUBUQUE WB CITY																							.02	.01	.03
HINTON 5WNW	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.04
MARION 4NE																			.01						.05
MARSHALLTOWN NO 2																				.01	.02	.01			.01
MASON CITY AP CAA 6																				.03					
MONONA																					.04	.02			.06
SHEFFIELD																					.01	.01			.02
SOLDIER														.01	.01										.02
SPILLVILLE																.01	.02	.02							.05
STRAWBERRY POINT											.01		.01	.01	.01							.01	.02	.02	.08
-17th-																									
AMES 3SW			.02	.01	.03	.05																			.11
COON RAPIDS		.02		.01	.01																				.04
DAVENPORT WB CITY											.01														.01
IOWA CITY AP CAA 6	*	*	*	*	*	*	.01	.01	.01	.01															.05
MARION 4NE		.01		.01	.01	.09																			.12
MARSHALLTOWN NO 2	.01		.01		.01	.09																			.01
MONONA		.01																			.01				.02
MUSCATINE NO 1								.01														*	*	*	
RINGSTED																									
SHEFFIELD			.01	.02	.01						.02		.02	.01		.01									.08
SHELL ROCK																					.01	.01			.02
SIOUX CENTER													.02	.01	.01	.01				.01	.01			.05	
TRAER				.02	.02																				.04
-18th-																									
AMES 3SW											.08			.01											.09
BELLEVUE L/D 12															.05	.01									.06
BURLINGTON WB APT //																.01	.03	.02	.02	.01					.09
CHARLES CITY						.04	.01	.17																	.22
COON RAPIDS								.07																	.07
DAKOTA CITY						.04	.06	.08																	.18
DAVENPORT WB CITY																.04	.05	.01	.03	.01	.01				.12
DERBY														.02											.05
DES MOINES WB APT										.01															.01
DES MOINES WB CITY																									.01
DUBUQUE WB CITY														.04	.02										.08
FOREST CITY				.06	.05	.01	.11	.08	.01																.32
HORNICK		.02	.02	.01																					.05
IDA GROVE 4S		.01	.02				.03	.01	.01																.08
IOWA C RALSTON CRK1														.01	.04	.02									.07
IOWA C RALSTON CRK2														.01	.05										.06
IOWA C RALSTON CRK3															.05										.05
IOWA C RALSTON CRK4															.07	.01									.08
IOWA C RALSTON CRK5														.01	.04										.05
IOWA FALLS 1N							*	*	*	*	.25														.25
KEOKUK WBO																	.02	.02	.02	.01	.01				.08
MARSHALLTOWN NO 2																	.07								.08
MASON CITY AP CAA 6	*	*	*	*	*	*	.15	*	*	*	*	*	.03												.10
MONONA										.02	.04	.04													.06
MORSE													.02	.02	.02										.06
MORSE 1NE													.01	.02	.03										.08
MORSE 4SSW													.04	.01	.01										.06
MOUNT PLEASANT														.02	.06					.01	.04	.01			.14
MOVILLE			.01	.01	.01	.05																			.08
MUSCATINE NO 1														.01	.03	.01									.09
OASIS														.10	.03										.13
OTTUMWA AP CAA 6													.04	.02											.06
ROCKWELL CITY			.01	.01	.02	.01	.03	.06															.01		.14
ST ANSGAR 2S						.09	.01	.12	.12	.01	.01	.01	.01	.01											.30
SHEFFIELD						.04	.02	.04	.17	.01	.01	.01	.01	.01								.01			.18
SHELL ROCK							.01	.02	.06	.11															.19
SIOUX CITY WB APT					.01																				.01
SOLDIER						.02	.01																		.03
SPILLVILLE										.04	.13														.17
STRAWBERRY POINT														.05	.06	.02	.02								.15
TRAER								.02			.02	.07	.01												.12
WASHINGTON														.05		.01	.01								.07
WEBSTER CITY							.04	.12	.09							.07	.03								.25
WHEATLAND																									.10
-19th-																									
BURLINGTON WB APT //														.01					.01						.02
CHEROKEE																									.07
DAVENPORT WB CITY			.01	.02	.01	.02	.01						.03	.01											.04
IOWA C RALSTON CRK1														.02	.02										.04
IOWA C RALSTON CRK2														.02	.02										.04
IOWA C RALSTON CRK3														.04	.01										.05
IOWA C RALSTON CRK4														.02	.01										.03
IOWA C RALSTON CRK5														.02											.02
LARRABEE			.03	.02																					.05
MUSCATINE NO 1													.01	.01	.01				.05				</		

HOURLY PRECIPITATION

Table 4-Continued

IOWA
APRIL 1950

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
	MUSCATINE NO 1			.01		.02	.01																			
NORTH ENGLISH	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.50
OASIS																									.04	
OTTUMWA AP CAA	.01	.01	.01	.01																					.04	
RINGSTED	.01	.01	.01																						.03	
ST ANSGAR 2S	.01	.01																							.03	
SAINT CHARLES	.01	.02	.01					.01																	.05	
SHELL ROCK	.08	.02																							.10	
SPENCER 1N																									.15	
SPILLVILLE	.05	.09	.01																						.42	
STRAWBERRY POINT	.17	.05	.03	.05	.02																				.32	
TABOR 6NW	*	*	*					.14																	.08	
TRAEER		.05	.01			.01			.01																.01	
WEBSTER CITY	.01																								.01	



See reference above following Station Index.

DAILY TEMPERATURES

IOWA
APRIL 1950

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ALBIA	MAX MIN	51 34	64 40	50 32	37 32	44 30	50 20	68 40	50 32	41 34	68 36	48 32	38 27	40 19	50 20	63 34	74 43	69 50	54 44	52 35	54 31	71 26	86 41	80 55	74 46	46 37	46 30	50 29	47 32	47 34	49 40	55.4 34.5	
ALGONA	MAX MIN	48 31	57 37	43 32	37 30	42 25	49 22	60 36	50 25	37 29	58 32	41 26	32 19	38 16	48 19	64 28	69 49	72 40	65 41	49 33	50 29	59 27	71 36	57 43	47 40	43 32	37 28	39 29	44 26	40 34	43 35	49.6 31.0	
ALLISON	MAX MIN	41 30	61 36							64 18					62 26	70 41	73 42	61 41	45 38	48 28	55 24	72 35	56 43	45 40	42 35	36 28	35 28	28 28	26 26	36 36		51.9 30.2	
ALTA	MAX MIN	48 31	59 37	44 31	39 28	42 23	57 22	61 34	49 24	40 28	62 29	41 26	32 19	40 13	50 19	65 28	70 48	73 41	65 41	56 31	53 26	64 30	79 39	62 45	47 40	45 30	44 24	47 28	42 26	40 34	42 31	55.3 29.2	
ALTON	MAX MIN	52 30	58 38	50 31	44 28	46 24	53 21	58 32	55 24	46 30	50 38	41 26	36 20	42 13	58 18	67 16	68 46	75 32	78 43	55 32	57 27	70 28	79 34	77 30	59 42	50 31	44 25	51 30	52 24	42 34	45 30	53.4 33.0	
AMES 3SW	MAX MIN	49 33	61 38	52 35	39 32	43 28	50 20	70 37	53 29	31 31	64 34	60 30	40 23	39 17	49 20	59 23	72 47	69 52	65 44	52 35	49 29	56 25	79 36	70 51	51 45	45 35	41 29	40 29	44 30	45 35	47 38	53.4 30.5	
ANAMOSA 1NW	MAX MIN	55 31	61 32	57 33	38 32	43 26	46 15	65 35	62 25	38 28	64 31	60 29	40 21	39 16	49 18	59 21	72 37	69 50	65 42	52 33	49 29	56 21	79 34	70 48	89 51	88 44	65 34	45 27	51 23	52 29	46 32	50 34	57.2 31.5
ATLANTIC 1E	MAX MIN	51 33	63 40	48 32	41 27	48 25	53 16	69 35	48 31	48 35	67 33	47 30	39 21	43 13	53 14	65 19	70 44	71 49	58 38	51 33	57 26	71 24	89 33	89 50	53 42	44 30	48 28	50 23	35 29	41 34	47 31	54.8 30.6	
ATLANTIC AP CAA	MAX MIN	50 34	61 42	42 32	40 28	46 21	53 16	69 35	48 32	48 35	67 32	47 30	39 21	43 13	53 14	65 19	70 44	71 49	58 38	51 33	57 26	71 24	89 33	89 50	53 42	44 30	48 28	50 23	35 29	41 34	47 31	53.6 31.3	
AUDUBON 2S	MAX MIN	49 32	59 41	47 28	40 26	45 23	51 17	68 35	48 30	43 34	65 35	43 26	38 23	11 11	26 26	36 36	42 42	71 48	52 41	51 29	56 28	65 28	87 45	85 44	51 41	41 32	47 25	48 24	38 29	40 30	45 29	50.4 30.4	
BANCROFT	MAX MIN	52 31	57 37	48 31	36 30	42 25	51 23	57 35	52 25	39 29	39 32	39 26	34 18	39 15	53 19	66 27	68 48	75 36	72 43	50 33	48 28	63 23	72 34	63 43	51 40	44 32	47 27	48 28	49 25	45 34	49 33	57.5 32.9	
BEDFORD 1N	MAX MIN	59 34	65 40	52 30	38 23	44 25	52 23	68 35	63 34	56 38	65 33	50 30	43 25	43 14	54 24	63 27	70 46	63 44	58 43	55 32	57 26	69 30	85 41	85 58	80 45	45 34	48 27	52 26	49 33	45 33	49 35	53.7 32.2	
BELLE PLAINE	MAX MIN	51 31	66 36	52 32	38 32	44 28	48 18	68 35	56 27	36 30	65 33	48 29	38 23	42 18	48 20	61 24	75 39	70 52	61 44	54 34	52 28	60 24	84 38	72 50	53 44	45 37	46 31	43 30	41 28	45 34	46 36	51.9 31.4	
BELLEVUE L AND D 12	MAX MIN	50 34	61 27	55 33	43 31	41 28	45 17	65 35	54 25	34 30	62 32	57 32	40 32	38 20	48 21	59 22	68 31	68 45	62 37	45 30	55 23	68 27	86 45	83 41	73 38	68 32	49 31	51 25	45 38	46 36	50 36	57.4 33.8	
BLOOMFIELD 2N	MAX MIN		63 42	53 32	42 33	45 29	45 20	69 32	56 34	53 34	71 42	50 32	43 29	42 20	48 20	53 41	72 45	60 42	60 54	50 34	54 32	63 30	80 40	70 48	55 43	45 25	46 29	45 31	40 29	42 30	46 35	52.9 33.3	
BOONE	MAX MIN	48 33	60 39	48 33	37 31	43 27	51 29	69 40	50 30	39 29	66 33	45 25	36 22	40 18	49 22	65 33	72 50	72 52	60 44	50 34	54 32	63 30	80 40	70 48	55 43	45 25	46 34	48 25	44 25	37 21	39 31	46.8 27.8	
BRITT	MAX MIN	48 31	49 32	49 29	34 27	45 20	45 24	52 32	52 21	32 25	36 32	36 22	32 15	13 13	25 13	43 25	43 35	39 39	32 32	25 25	21 33	40 30	36 46	34 46	25 31	33 40	25 34	25 34	21 31	31 32	50 36	55.3 33.8	
BURLINGTON WB APT	MAX MIN	52 37	68 38	47 33	40 33	44 29	48 24	68 38	51 31	45 34	70 37	48 31	48 24	18 18	23 23	27 27	37 37	45 43	43 34	33 33	30 30	39 46	46 46	34 31	31 31	46 34	46 31	50 42	40 34	47 38	47 36	54.6 31.5	
CARROLL	MAX MIN	51 31	61 39	49 32	42 26	45 25	55 20	70 37	55 28	43 30	63 30	53 32	37 24	40 14	51 15	60 25	70 50	70 49	62 43	48 33	49 29	55 28	79 37	60 48	47 43	46 33	40 25	40 26	46 30	44 35	47 33	51.8 31.5	
CASCADE	MAX MIN	48 32	62 29	52 34	40 32	44 26	45 20	65 36	58 26	33 30	63 32	53 31	37 24	40 18	51 21	60 22	70 36	70 52	62 42	48 35	49 30	55 20	79 30	60 47	47 44	46 37	40 32	40 30	46 26	44 30	47 36	53.5 31.5	
CASTANA 4E	MAX MIN	48 31	60 39	50 32	40 26	45 24	52 22	68 35	48 31	45 30	64 30	42 29	31 24	42 12	52 18	64 28	69 49	71 46	58 42	51 34	53 29	70 30	87 40	73 48	53 43	48 31	48 22	49 24	42 30	45 35	48 30	53.4 32.3	
CEDAR RAPIDS NO 1	MAX MIN	51 32	64 34	53 33	39 32	44 28	49 17	69 37	59 27	35 30	65 32	48 29	39 23	40 19	50 20	60 23	75 40	69 53	60 44	51 35	51 29	60 25	84 37	67 49	51 44	46 38	45 32	41 30	44 27	46 35	48 36	58.4 33.8	
CENTERVILLE	MAX MIN	61 34	65 40	61 31	39 30	44 28	50 19	69 39	67 32	47 35	68 39	50 31	48 28	41 17	50 20	63 23	74 40	73 48	63 44	54 32	54 28	66 25	83 40	80 58	52 36	48 30	48 28	51 26	51 33	47 34	50 40	58.3 33.3	
CHARITON 3E	MAX MIN									65 31	44 33	63 38	48 31	45 28	41 18	50 16	61 19	77 36	71 47	64 44	55 30	55 28	65 36	85 55	83 49	78 36	49 28	48 26	50 32	48 34	46 39	47.7 31.4	
CHARLES CITY	MAX MIN	42 31	56 34	38 33	38 30	40 26	47 22	60 34	40 26	34 29	62 33	40 27	31 21	37 20	49 22	60 27	71 46	72 42	54 39	47 33	47 30	56 27	69 37	58 43	44 30	41 31	35 30	35 28	47 30	44 37	43 35	51.7 29.1	
CHEROKEE	MAX MIN	48 31	58 38	38 30	39 28	46 24	51 20	62 32	44 24	38 29	62 30	42 26	35 19	42 10	52 16	66 26	70 50	73 37	61 42	51 27	55 25	68 26	77 35	58 48	50 41	46 25	45 16	48 29	44 23	49 34	48 31	61.7 32.5	
CLARINDA	MAX MIN	53 34	65 39	65 30	42 26	48 27	55 19	71 34	58 35	66 40	70 37	60 31	49 26	49 16	55 24	65 43	80 43	74 43	68 41	58 34	62 30	75 23	87 40	91 59	80 42	52 35	49 25	58 26	49 34	49 34	48 35	49.8 30.4	
CLARION	MAX MIN	44 32	56 37	47 31	36 31	41 24	48 20	61 35	49 26	37 28	64 30	40 26	32 17	40 16	45 18	51 25	62 45	70 37	65 49	63 44	53 37	52 31	60 28	81 38	70 48	48 42	45 38	48 34	47 32	44 30	48 39	53.8 33.4	
CLINTON NO 1	MAX MIN	52 36	63 31	50 34	42 32	47 28	49 25	65 35	58 27	35 30	66 33	48 40	40 31	45 26	51 19	62 22	70 39	65 47	63 45	53 36	52 31	59 24	84 39	79 62	48 46	45 39	48 32	46 30	43 30	48 35	50 40	55.9 34.1	
COLUMBUS JUNCTION	MAX MIN	51 34	67 37	55 32	40 32	44 29	49 22	69 37	62 30	40 33	68 40	50 31	38 26	41 19	50 23	61 22	75 39	69 47	65 45	52 36	52 31	59 24	84 39	79 62	66 46	55 39	48 32	46 30	43 30	48 35	50 40	54.6 30.8	
CORNING 1W	MAX MIN	52 34	64 39	50 30	38 25	43 26	52 22	68 34	59 32	51 35	67 32	49 25	42 24	42 14	54 19	64 26	74 47	71 45	63 45	54 32	56 27	69 28	89 71	90 48	71 44	48 30	50 29	50 25	40 30	49 32	49 32	59.3 31.9	
COUNCIL BLUFFS 5NE	MAX MIN	58 30	65 41	58 31	45 28	47 26	54 18	71 35	70 28	58 30	67 34	48 31	44 25	43 14	55 16	66 26	69 48	71 48	69 45	55 35	57 29	72 37	89 52	90 44	71 30	48 29	50 25	50 30	40 32	49 32	42 32	50.5 29.5	
CRESCO	MAX MIN	39 28	54 28	51 31	38 31	41 22	45 18	61 33	57 22	32 25	60 																						

DAILY TEMPERATURES

IOWA
APRIL 1950

Table 5-Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
DES MOINES WB APT	MAX MIN	49 35	62 41	45 32	38 31	43 30	50 23	68 41	49 30	42 32	66 33	48 32	37 25	42 18	51 21	63 30	74 46	70 49	58 43	52 36	54 30	64 31	86 40	81 50	53 43	44 32	47 29	47 28	37 30	45 38	47 36	52.7 33.8
DES MOINES WB CITY	MAX MIN	50 35	62 42	44 33	38 33	43 29	51 23	68 42	48 31	41 33	66 33	47 32	37 25	41 20	51 25	63 28	75 47	70 50	58 44	53 38	53 34	63 32	86 40	81 49	54 44	45 34	48 29	48 31	37 30	45 37	48 36	52.8 34.6
DUBUQUE L AND D 11	MAX MIN	51 32	57 28	49 33	37 32	37 27	41 20	59 35	52 22	31 27	57 31	53 30	38 22	38 19	46 25	58 26	66 36	66 44	64 43	51 35	47 27	52 29	74 36	60 43	47 39	44 36	36 31	36 29	44 30	43 36	46 36	49.3 31.3
DUBUQUE WB CITY	MAX MIN	46 32	63 32	43 35	43 33	41 29	45 24	65 32	38 25	35 30	62 33	45 31	33 23	39 21	48 26	61 29	71 42	72 53	60 43	47 35	49 31	56 30	77 37	54 42	47 42	47 35	39 31	39 31	46 33	45 39	47 37	50.1 33.3
ELKADER	MAX MIN	56 29	62 25	54 30	41 32	43 25	48 14	62 35	58 23	33 26	62 30	56 28	38 20	40 15	52 17	60 19	70 28	72 40	62 41	50 32	48 24	55 18	72 25	63 40	46 34	46 29	39 29	39 27	52 24	46 33	46 33	62.8 28.0
EMMETSBURG	MAX MIN	48 31	58 37	45 31	37 30	41 25	51 20	56 32	50 25	34 29	58 32	41 28	30 18	37 15	50 20	66 21	72 47	74 37	61 42	46 33	50 28	60 27	72 30	73 43	52 40	44 33	38 27	41 29	45 24	38 33	43 33	56.4 30.0
ESTHERVILLE	MAX MIN	45 30	57 36	41 30	36 29	41 23	52 18	56 32	40 22	35 27	47 29	41 25	30 16	38 13	52 15	66 23	69 46	74 32	63 40	46 32	51 27	61 25	70 32	60 41	51 39	43 31	35 25	40 27	43 22	38 31	42 32	48.3 28.3
FAIRFIELD	MAX MIN	54 37	66 38	40 32	34 28	45 22	50 26	69 32	48 31	59 34	68 31	48 29	38 19	42 21	50 24	63 38	75 44	73 45	56 36	54 29	54 25	62 41	85 41	79 48	60 39	44 31	49 30	49 31	51 34	56 37	55.4 32.8	
FAYETTE	MAX MIN	49 28	61 28	53 30	40 30	42 25	46 14	64 34	57 24	34 28	62 31	55 27	40 18	39 16	50 18	61 19	70 34	73 40	56 46	49 35	48 28	56 20	72 31	64 44	50 36	43 35	38 30	37 28	48 28	44 38	46 35	51.8 29.3
FOREST CITY	MAX MIN	42 30	57 35	40 30	37 30	39 22	47 22	58 35	40 24	34 27	58 31	40 25	36 17	48 16	60 24	70 42	71 39	64 42	46 33	48 29	55 24	68 35	68 42	59 39	47 31	42 27	37 26	36 27	45 34	41 35	40 35	47.8 29.7
FORT DODGE	MAX MIN	48 31	58 40	48 33	39 31	43 27	50 20	64 36	50 27	33 30	67 32	44 29	34 20	40 16	49 18	64 34	71 50	72 44	63 43	50 34	52 29	61 27	75 41	63 46	50 42	44 33	44 29	42 30	42 25	41 37	44 36	51.5 32.0
GLENWOOD 2E	MAX MIN	52 31	65 42	57 32	36 29	46 28	54 19	71 36	63 32	69 40	66 36	49 31	43 25	43 14	56 17	66 28	72 48	72 49	66 42	55 35	57 29	76 30	90 42	94 55	70 44	44 35	52 28	49 23	42 33	49 34	49 33	59.1 33.3
GREENFIELD	MAX MIN	50 35	51 37	42 31	40 24	43 24	49 26	69 35	58 20	49 33	47 28	41 29	39 24	41 13	59 22	74 48	68 51	58 48	54 34	53 40	68 40	87 51	85 45	85 46	46 25	48 25	50 24	41 24	43 29	49 34	54.2 32.1	
GRINNELL	MAX MIN	51 30	64 38	52 32	39 31	43 26	48 18	68 38	67 27	39 29	64 32	47 29	40 23	49 16	61 20	74 28	68 44	62 51	51 43	54 33	60 27	85 39	81 52	57 45	46 34	49 29	38 27	39 29	45 33	51 37	54.4 32.3	
GRUNDY CENTER 4NE	MAX MIN	46 30	60 35	50 32	40 31	42 26	48 18	67 35	49 26	35 29	62 32	43 27	39 20	40 17	50 24	61 42	73 47	70 43	60 34	47 28	49 22	59 32	77 44	60 42	49 34	44 30	39 29	37 25	43 26	41 33	46 35	50.8 30.7
GUTHRIE CENTER	MAX MIN	50 29	62 37	50 32	39 28	44 27	51 19	69 38	53 30	42 31	67 32	46 29	40 23	41 15	65 28	72 46	71 50	61 38	51 32	54 29	66 38	88 49	82 42	58 34	43 26	42 26	47 26	43 28	41 33	46 35	54.5 31.8	
HAMPTON	MAX MIN	48 32	52 31	46 32	37 32	40 25	48 21	64 36	53 26	36 29	61 31	42 27	33 20	37 18	48 20	61 25	70 47	71 44	65 44	48 34	49 30	56 21	70 33	65 44	47 42	43 34	37 29	37 29	43 26	42 37	43 36	49.7 31.3
HARLAN	MAX MIN	52 34	62 40	54 34	41 29	45 26	53 19	70 33	66 31	46 35	65 33	46 30	42 27	43 15	55 26	66 47	71 50	73 44	67 34	53 30	56 29	71 37	90 52	87 44	66 34	46 27	49 26	52 30	49 34	41 34	48 34	57.5 32.7
HAWARDEN	MAX MIN	47 31	57 35	47 33	40 28	44 26	55 21	60 32	48 25	40 31	48 32	40 28	35 21	42 14	53 16	67 18	72 47	76 32	66 34	53 34	50 30	70 33	80 49	83 40	58 33	45 33	44 28	48 26	46 30	40 26	44 31	52.6 29.0
IDA GROVE 4S	MAX MIN	50 32	60 38	51 32	42 27	49 32	54 19	70 34	49 25	43 30	64 31	46 28	41 21	45 11	53 15	68 25	73 48	74 40	64 43	53 38	58 37	69 37	83 46	87 43	51 28	44 24	48 24	44 29	45 36	48 32	55.5 30.7	
INDEPENDENCE 2W	MAX MIN	55 28	62 30	55 29	39 29	41 24	46 17	67 31	59 22	38 26	62 28	58 25	48 19	48 16	60 24	72 36	69 45	67 40	52 29	48 25	55 20	76 31	69 44	51 39	44 33	38 27	37 25	45 24	45 37	46 35	52.7 28.5	
INDIANOLA	MAX MIN	51 35	66 39	60 32	40 30	44 29	51 21	70 41	62 29	43 32	66 36	51 30	44 27	43 16	51 20	65 25	76 44	73 50	65 47	54 35	58 30	65 28	88 39	82 54	80 47	47 35	50 27	50 27	45 29	44 32	50 39	57.8 33.5
INWOOD 2W	MAX MIN	45 30	55 38	41 29	39 26	46 24	52 24	55 32	46 23	40 30	41 29	37 26	34 18	40 11	50 17	65 28	71 45	72 37	65 40	51 31	65 25	67 29	75 33	64 45	54 39	45 30	43 22	47 28	43 22	36 29	40 28	50.8 28.9
IOWA CITY	MAX MIN	54 34	65 36	55 32	37 32	43 28	48 21	67 36	59 28	36 31	66 33	57 30	38 25	40 20	49 22	62 25	73 36	65 52	60 43	51 35	50 30	60 26	83 37	72 50	57 46	47 38	46 32	43 31	46 28	48 35	48 38	53.9 33.0
IOWA CITY AP CAA	MAX MIN	50 34	65 37	44 32	38 33	43 28	49 19	68 38	48 29	36 31	66 36	48 31	37 25	41 20	50 21	63 22	73 33	66 49	61 39	50 31	51 28	60 23	83 35	77 45	52 44	47 34	43 28	48 27	46 36	50 36	53.0 31.9	
IOWA FALLS 1N	MAX MIN	47 31	58 35	52 31	37 31	42 25	49 20	65 35	54 25	37 30	64 33	43 26	38 20	39 17	48 20	63 24	72 45	70 44	65 44	48 33	50 30	58 24	72 34	60 44	46 40	44 33	40 30	41 30	41 26	44 37	50.9 31.1	
JEFFERSON	MAX MIN	50 32	62 40	51 34	40 30	45 27	50 19	70 38	55 31	42 31	67 34	47 30	38 24	41 19	64 24	72 50	71 44	64 35	53 31	56 29	63 39	81 51	72 44	58 35	45 29	48 29	48 30	45 30	42 36	47 37	54.5 33.3	
KEOKUK L D 19	MAX MIN	42 37	52 37	68 41	45 31	42 27	43 27	65 32	48 34	49 33	57 35	69 33	49 29	39 21	47 25	69 32	49 39	65 46	51 37	56 34	53 35	62 42	66 50	80 43	70 35	49 34	57 34	48 34	44 36	49 38	54.3 35.8	
KEOKUK WBO	MAX MIN	52 37	72 38	49 32	39 32	42 30	48 27	68 29	57 33	47 35	72 36	58 34	38 26	40 22	60 33	73 39	67 42	63 46	54 39	53 34	62 35	83 43	82 49	70 46	57 38	53 36	48 32	42 35	48 35	53 42	56.6 35.4	
KEOSAUQUA STATE PK	MAX MIN	56 34	70 41	57 32	40 32	44 30	52 23	70 38	64 33	44 35	72 41	55 33	45 29	41 20	51 24	63 25	76 38	69 50	62 46	56 37	55 32	65 26	86 41	80 58	76 51	60 39	56 32	52 31	44 34	49 37	54 40	58.8 35.4
KNOXVILLE 2W	MAX MIN	58 33	64 42	57 32	40 32	44 36	51 25	68 41	62 30	44 32	67 36	48 31	45 26	40 18	50 21	62 30	76 45	71 51	64 45	54 34	54 30	63 29	86 41	82 55	77 37	48 28	48 27	48 29	46 33	49 38	57.1 34.1	
LAKE CITY	MAX MIN	49 39	65 42	49 32	40 30	43 24	52 22	70 34	53 29	41 30	67 32	43 28	41 20	41 12	51 15	67 26	71 49	72 45	63 42	53 27	54 29	65 36	78 49	63 51	45 41	46 33	47 25	44 29	40 30	45 32	53.6 31.8	
LAKE PARK	MAX MIN	44 30	54 35	42 30	35 33	40 25	47 22	52 34	41 21	37 30	32 3																					

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Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARSHALLTOWN	MAX MIN	48 32	60 37	59 34	38 32	38 28	42 19	51 33	68 27	45 29	56 31	65 27	44 22	35 19	38 21	49 22	62 29	73 52	69 45	54 35	44 29	51 24	61 35	80 49	68 45	47 35	39 30	42 30	41 27	40 31	44 36	51.7 31.5	
MASON CITY 3N	MAX MIN	43 30	56 34	41 31	38 31	41 23	48 19	59 34	42 24	34 27	61 31	40 26	32 19	39 19	48 19	60 20	70 46	71 37	61 40	42 32	48 28	55 24	66 32	60 35	46 39	41 31	38 28	36 26	46 28	42 35	42 34	48.2 29.4	
MASON CITY AP CAA	MAX MIN	42 30	55 34	37 31	36 28	39 21	47 20	58 30	41 24	32 28	59 30	39 24	30 19	37 18	48 18	60 23	71 46	71 36	53 37	42 29	48 26	55 22	67 33	60 39	43 40	41 29	35 28	36 27	46 27	41 35	40 33	47.0 28.8	
MILFORD 4NW	MAX MIN	45 30	57 36	41 30	37 28	42 25	51 21	55 32	47 22	35 29	41 29	38 26	30 16	37 13	50 17	63 24	69 43	73 35	62 41	47 31	50 27	59 27	70 34	60 43	50 40	43 31	35 25	41 27	37 21	37 31	41 31	48.1 28.8	
MILLERTON	MAX MIN	55 34	66 33	50 31	37 29	44 29	50 20	75 36								62 25	75 40	69 46	60 44	54 31	55 28	66 30	84 34	80 57	76 49	49 36	50 28	51 27	44 32	47 33	49 40	58.6 34.4	
MISSOURI VALLEY	MAX MIN	52 30	67 44	49 34	43 27	51 24	56 24	74 41	60 30	58 38	67 33	51 31	42 26	47 14	57 23	67 31	71 51	74 50	63 45	57 32	60 31	74 36	91 46	89 54	65 47	50 35	55 25	54 25	46 30	41 34	53 33	59.5 34.1	
MOUNT AYR 2N	MAX MIN	58 34	65 39	62 32	39 24	43 27	51 22	70 37	67 33	55 36	56 32	50 31	43 26	41 16	51 20	63 28	75 43	70 45	59 44	55 34	57 28	69 27	85 40	84 58	77 48	49 34	51 28	53 27	50 34	46 34	50 38	58.1 33.3	
MOUNT PLEASANT	MAX MIN	52 36	66 37	53 32	39 32	43 28	49 23	68 37	58 31	42 33	70 40	57 31	43 27	41 19	51 22	62 26	74 36	71 46	64 44	63 37	53 30	63 25	84 37	79 50	73 45	56 40	50 31	49 30	49 32	39 31	48 30	50 39	57.0 33.9
MUSCATINE NO 1	MAX MIN	52 35	67 37	50 32	40 32	45 28	49 21	68 38	65 29	37 31	66 37	58 31	40 25	42 19	51 23	62 27	74 38	65 49	64 44	50 37	53 31	62 27	84 41	75 50	61 46	54 39	49 32	46 31	41 30	48 35	48 33	55.5 33.6	
NEW HAMPTON	MAX MIN	42 23	57 25	41 25	38 24	40 17	47 10	61 27	41 16	32 20	61 25	41 21	31 12	38 11	49 12	60 18	72 32	72 36	56 37	44 27	47 22	55 15	70 27	59 36	46 33	42 25	35 23	35 21	48 22	43 30	45 28	48.3 23.3	
NEWTON	MAX MIN	52 32	63 36	53 32	38 32	45 28	49 23	69 40	60 29	38 31	65 33	48 31	41 25	41 19	51 21	62 29	76 45	71 52	62 45	52 35	55 28	62 27	88 39	80 52	60 45	45 36	47 30	48 29	40 30	45 34	50 30	55.2 33.3	
NORTHWOOD	MAX MIN	45 28	56 32	49 30	38 30	40 22	46 21	58 31	50 23	33 27	60 31	39 25	34 18	38 17	47 20	59 25	73 42	70 37	67 41	47 33	46 29	54 25	66 31	62 39	48 31	42 30	33 27	25 25	27 25	43 33	40 33	48.7 29.0	
NORWICH 2E SCS FARM	MAX MIN	53 35	66 40	48 32	42 26	44 28	54 22	70 36	64 35	66 40	67 36	50 32	43 26	43 15	55 20	65 28	74 45	69 45	59 53	56 33	57 30	72 29	87 42	91 61	71 44	45 35	49 28	50 26	48 35	41 34	48 34	57.7 34.2	
OAKLAND 2E	MAX MIN	53 34	64 41	54 32	43 27	47 25	52 17	69 36	65 31	52 37	65 33	48 30	42 25	43 13	53 17	66 26	70 45	66 58	61 45	54 30	58 28	72 25	90 37	91 52	71 42	45 34	49 28	50 24	48 29	41 32	48 33	57.7 32.2	
ORLWEIN	MAX MIN	48 30	60 33	60 32	38 32	40 24	46 19	65 36	53 25	34 24	61 32	44 28	32 24	37 12	48 20	60 24	72 40	72 45	61 44	48 34	46 30	54 25	72 37	91 43	77 35	53 30	50 30	51 28	49 28	40 28	48 38	48 35	56.6 30.9
ONAWA	MAX MIN	49 30	64 39	47 32	45 27	48 24	56 22	71 33	58 28	51 34	49 31	46 29	39 25	45 12	55 13	66 29	70 48	75 42	69 42	56 35	57 28	72 32	91 41	77 52	53 45	50 33	51 23	49 22	49 32	40 35	48 31	56.6 31.6	
OSAGE	MAX MIN	41 30	56 32	50 32	39 32	39 24	46 19	59 34	52 24	34 27	61 32	44 28	35 19	36 19	47 21	52 26	63 44	76 43	72 43	62 33	55 29	56 31	68 40	85 57	81 47	79 48	48 32	48 29	52 27	48 29	45 35	50 34	58.0 33.8
OSCEOLA	MAX MIN	62 33	68 41	60 30	39 27	43 28	50 23	68 39	60 29	45 34	66 39	50 31	47 27	41 17	52 22	63 29	76 44	72 47	62 45	55 33	56 31	68 40	85 57	81 47	79 47	48 34	48 29	52 25	48 31	43 32	43 38	58.0 33.8	
OSKALOOSA	MAX MIN	50 35	66 41	55 33	38 33	44 29	51 20	69 39	60 31	41 33	65 38	48 32	41 28	41 20	50 21	61 24	75 42	72 52	60 43	53 35	54 29	63 23	85 38	80 55	61 50	45 38	46 30	48 28	43 30	47 34	49 39	56.0 34.1	
OTTUMWA AP CAA	MAX MIN	50 35	65 41	43 32	38 30	45 28	50 20	68 40	49 31	43 34	68 36	49 32	38 26	41 20	49 22	61 29	74 42	71 49	57 45	53 36	53 31	62 40	85 50	80 44	61 34	45 30	46 30	48 30	37 31	47 37	49 36	54.2 34.2	
PERRY 2SE	MAX MIN	57 33	61 39	51 34	40 29	45 27	52 17	72 37	55 30	43 30	67 34	49 29	38 24	43 17	53 19	64 21	73 37	72 50	62 42	55 34	56 29	64 25	84 35	81 48	60 44	44 34	49 27	50 28	43 29	42 34	48 36	55.8 31.7	
POCAHONTAS 2SE	MAX MIN	53 35	48 34	46 34	37 28	43 26	52 22	62 28	45 26	43 29	66 29	42 28	34 19	40 14	50 18								75 36	58 46	49 41	45 32	43 27	43 27	43 24	43 36	34	47.9 29.3	
PRIMGHAR	MAX MIN	51 30	54 38	45 29	37 28	41 24	52 24	53 34	43 24	40 29	48 30	37 25	32 18	38 13	50 20	65 29	67 57	73 41	71 40	49 29	52 24	64 30	74 39	69 45	53 41	46 30	40 24	44 27	44 24	42 30	40 30	50.5 30.2	
RED OAK	MAX MIN	51 35	64 41	51 33	43 28	47 27	54 17	69 35	56 34	63 39	67 35	49 32	42 27	43 16	55 14	65 24	72 45	71 48	59 46	54 33	56 23	72 25	86 43	90 59	69 45	46 36	40 29	44 25	44 33	42 34	49 34	57.9 33.2	
ROCK RAPIDS	MAX MIN	45 32	53 36	40 31	37 29	42 25	50 22	52 31	45 24	39 29	39 33	36 27	31 19	36 15	50 18	64 26	68 47	73 30	58 41	48 32	51 27	66 28	80 36	64 48	50 42	45 31	46 27	47 30	41 23	41 30	46 29	53.0 31.3	
ROCKWELL CITY	MAX MIN	49 30	60 37	49 33	38 29	44 25	51 21	67 35	50 30	40 30	66 33	45 27	35 21	42 15	51 19	66 23	70 50	72 39	75 43	62 33	52 29	55 29	68 37	82 46	62 42	51 32	45 26	47 30	49 29	43 36	43 33	53.7 31.9	
SAC CITY	MAX MIN	52 31	60 39	46 33	41 30	44 25	53 23	68 37	48 27	40 31	65 31	45 28	35 22	43 15	57 20	68 25	73 51	75 45	62 43	52 33	55 29	68 37	82 46	62 42	51 32	45 26	47 30	49 29	43 36	45 36	39	49.2 29.6	
SANBORN	MAX MIN	44 31	54 37	40 30	37 28	43 24	49 23	55 34	46 23	38 28	44 29	37 25	31 17	38 12	50 16	65 28	68 47	74 36	63 40	48 40	52 23	64 28	75 37	62 45	50 40	45 31	39 25	43 28	45 23	30 30	30	47.8 28.6	
SARATOGA 2E	MAX MIN	44 28	54 30	46 31	38 31	38 24	46 15	59 33	48 22	32 27	59 32	37 29	32 18	37 16	47 15	58 20	70 38	70 35	60 43	44 32	46 28	55 19	65 32	58 38	47 31	40 28	34 27	34 28	46 28	44 35	36	49.2 29.0	
SHELDON	MAX MIN	45 31	53 37	42 30	38 28	42 22	50 22	55 32	46 23	38 29	45 29	36 26	30 18	38 13	50 16	65 23	68 45	73 33	59 41	48 32	52 26	65 28	74 33	62 46	52 41	45 30	39 24	44 28	45 24	38 30	39	49.2 29.0	
SHENANDOAH	MAX MIN	54 35	66 43	62 31	45 27	46 27	55 20	71 37	65 35	41 38	72 32	68 27	51 14	45 19	44 19	56 27	67 45	74 46	70 46	60 32	56 30	58 29	74 45	87 58	93 45	90 35	51 29	50 26	53 36	49 35	51	60.9 34.1	
SIBLEY	MAX MIN	45 30	50 35	45 30	34 27	41 24	48 21	49 32	48 22	40 28	38 31	35 25	34 16	36 13	49 15	60 24	66 43	71 30	70 40	50 31	48 24	62 24	70 30	68 43	55 40	48 31	35 24	40 26	40 20	37 29	29	48.4 27.9	
SIDNEY	MAX MIN	62 32	64 41	53 32																													

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Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
TOLEDO	MAX	52	64	54	38	43	49	68	56	38	63	46	40	40	49	62	73	69	65	50	52	59	81	71	67	45	45	41	41	44	49	53.8 32.2	
	MIN	31	37	32	32	28	18	37	27	30	32	28	22	18	20	23	44	52	45	35	29	24	37	48	45	35	30	30	27	34	36		
TRIPOLI	MAX	53	62	55	40	41	47	66	59	38	62	50	39	39	50	61	71	72	67	52	49	56	71	66	48	44	37	39	47	48	47	52.5 30.7	
	MIN	30	33	31	32	26	19	34	25	28	32	28	20	18	20	23	40	44	44	33	29	23	34	42	41	35	29	28	28	38	35		
VINTON	MAX	58	62	54	40	42	49	67	64	40	62	52	40	39	50	60	74	70	65	55	53	58	80	66	57	46	41	40	44	46	47	54.0 31.5	
	MIN	32	35	33	33	30	19	36	27	32	32	29	18	18	21	22	29	50	42	33	28	22	34	48	46	37	32	30	26	36	36		
WASHINGTON	MAX	53	68	55	40	45	49	67	63	36	68	50	42	41	50	63	75	70	64	54	54	62	85	80	74	56	49	47	40	47	51	56.8 33.1	
	MIN	35	37	32	32	28	22	32	30	32	35	30	25	18	23	26	38	49	44	35	28	26	37	52	46	39	30	29	30	34	38		
WATERLOO AP 5NE	MAX	46	60	39	39	42	48	65	40	33	62	45	34	39	49	61	70	70	55	46	49	57	73	60	45	43	39	38	45	43	46	49.4 30.9	
	MIN	35	37	32	32	29	24	20	37	26	30	32	28	23	18	19	23	43	46	40	31	30	24	33	38	42	33	32	27	25	37		32
WAUKEE	MAX	50	62	50	38	42	51	68	65	55	68	47	40	40	50	63	75	68	60	55	53	63	86	81	75	48	46	47	42	44	48	56.0 35.2	
	MIN	35	42	32	32	30	23	42	31	38	35	32	27	20	25	28	47	53	47	38	34	32	40	54	48	37	29	31	30	35	30		
WAUKON	MAX	47	57	49	38	39	45	62	53	33	61	53	34	37	46	59	69	71	58	46	47	53	67	58	46	41	36	35	47	46	45	49.3 30.2	
	MIN	28	33	32	31	25	18	34	22	26	32	28	19	16	21	29	36	43	43	34	28	26	33	43	38	34	28	27	29	36	33		
WEBSTER CITY	MAX	48	58	50	38	43	49	67	53	40	63	45	36	40	50	64	70	72	67	50	52	60	77	65	51	44	42	41	42	42	44	52.1 31.7	
	MIN	32	38	33	31	26	18	35	27	30	32	29	20	17	18	21	49	49	43	34	29	22	37	45	43	34	29	31	25	37	36		
WILLIAMSBURG	MAX	51	66	52	38	44	43	68	60	36	66	47	39	47	48	61	76	68	60	52	53	60	84	77	59	49	47	44	40			54.8 33.6	
	MIN	32	36	31	33	33	33	36	35	32	33	30	25	19	21	23	40	53	42	35	30	25	38	52	45	37	31	31	29				
WINTERSET	MAX	63	68	57	40	45	50	70	64	45	69	51	47	44	52	65	78	73	60	55	58	67	87	83	80	48	50	52	45	44	50	58.7 33.1	
	MIN	33	40	32	26	26	20	39	30	33	38	29	28	15	18	28	46	50	46	33	28	30	41	53	47	34	26	25	29	32	37		
WOODWARD 7N	MAX	55	61	55	39	43	49	71	58	43	68	47	41	41	50	62	75	71	60	53	55	62	82	78	60	45	48	47	42	43	46	55.0 34.2	
	MIN	32	40	34	31	28	32	39	29	30	34	30	23	27	31	25	49	51	44	33	28	28	39	51	44	34	28	30	30	35	38		

EVAPORATION AND WIND

Table 6

Station		Day of month																															Total or ave
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ames 3 SW	EVAP	.13	.13	.07	.06	.09	.16	.20	.20	.03	.17	.15	.12	.12	.20	.26	.15	.11	.13	.16	.15	.23	.24	.03	.06	.12	.12	.03	.02	.05	3.86 3194		
	WIND	98	95	55	110	98	96	130	172	164	241	168	114	79	26	58	127	92	107	109	79	22	59	145	127	175	119	67	70	128		64	
Cherokee	EVAP	.18	.11	.04	.04	.09	.19	.13	.05	.07	.02	.13	.12	.13	.16	.21	.22	.22	.14	.18	.19	.20	.25	.18	.03	.17	.03	.13	.08	.01	.07	3.77 3750	
	WIND	194	162	74	147	111	140	131	168	163	181	224	87	75	30	107	143	86	190	166	118	40	60	114	34	355	82	138	31	79	120		
Iowa City	EVAP	.17	.15	.07	.14	.10	.20	.23	.10	.11	.23	.14	.13	.09	.13	.16	.10	.07	.14	.17	.14	.33	.07	.18	.16	.14	.14	.04	.06			4.17E 3245	
	WIND	170	89	66	122	166	66	127	161	67	125	279	193	141	44	26	50	35	59	114	114	41	74	77	130	191	165	111	36	113	93		
Norwich 2 E SCS Farm	EVAP																					.33	.43	.30	.17	.12	.17	.04	.08	.03	- 4984		
	WIND	225	208	105	191	231	137	156	160	157	343	365	182	113	46	89	128	150	177	236	178	71	119	175	148	297	90	113	78	117		199	

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7 AM	34	38	38	33	32	31	37	36	35	44	34	32	31	32	33	47	52	49	40	37	37	43	53	51	39	34	37	36	38	40	38.4 47.9 47.0	
	12 M	46	52	39	39	42	38	53	44	35	55	45	41	38	48	54	59	58	50	50	52	59	69	66	51	41	45	47	38	40	44		
	7 PM	45	50	37	36	40	44	56	41	35	45	45	39	44	50	55	60	58	50	47	49	56	64	60	48	39	45	46	39	41	45		
2 1/4 Inches	7 AM	34	37	37	33	33	31	36	37	36	43	35	33	31	32	34	47	52	49	40	37	37	43	53	52	41	35	37	38	38	40	38.7 46.8 47.2	
	12 M	46	51	39	39	42	33	53	45	35	54	46	42	33	47	54	59	56	50	48	49	54	62	63	51	42	43	45	39	40	43		
	7 PM	44	50	37	37	40	44	55	43	35	45	46	40	44	51	55	59	58	50	48	50	56	63	60	48	40	46	47	40	41	45		
4 Inches	7 AM	36	38	40	34	34	34	38	40	38	42	36	35	34	35	36	48	52	50	42	40	40	46	54	53	44	37	39	40	40	40	40.5 45.1 48.0	
	12 M	42	47	39	38	40	37	47	44	37	50	43	40	37	44	48	54	55	50	47	47	50	56	60	52	43	41	43	40	41	42		
	7 PM	45	48	38	38	41	43	54	45	37	48	46	42	46	51	55	58	58	51	49	51	56	63	61	50	42	47	48	41	41	46		
8 Inches	7 AM	37	39	41	37	36	37	40	45	42	40	40	40	38	40	42	48	52	51	46	44	44	48	55	54	48	41	42	43	41	41	43.1 43.2 46.8	
	12 M	38	41	40	37	37	36	41	44	40	42	41	40	38	40	43	49	52	50	46	44	45	49	55	53	46	41	42	42	41	42		
	7 PM	42	45	40	39	41	42	50	46	39	47	46	45	45	48	51	54	54	50	48	49	52	57	58	52	45	46	46	42	42	44		
20 Inches	7 AM	35	36	38	38	37	37	38	40	40	40	40	41	41	41	42	44	45	46	46	45	45	46	48	49	48	46	44	44	43	43	42.1 42.4 42.1	
	12 M	36	37	38	38	38	38	39	40	41	40	41	41	41	41	42	44	45	46	46	45	45	46	48	48	47	45	44	44	43	43		
	7 PM	36	37	38	38	37	38	39	40	40	40	40	40	40	40	41	42	44	46	46	45	44	45	46	48	48	47	45	44	43	43		
40 Inches	7 PM	34	34	34	35	35	36	36	36	36	37	37	38	38	38	38	39	40	40	40	40	41	42	42	42	42	42	42	42	42	42	38.7 40.5	
	7 PM	39	39	39																													

SNOWFALL AND SNOW ON GROUND

IOWA
APRIL 1950

Table 7

Station	Day of month																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Algona				T	T																										T
Ames 3 SW				T	T				T		T									T										T	
Atlantic AP CAA			0.4 1	T						T		T																		2.9 1	
Burlington WB AP			T	T	T															T			T								
Castana 4 E										T	0.7 T																			T	
Cedar Rapids No. 1				1.2	0.2 T							T	T								T					T				T	
Cherokee				T	T					T	T																				
Clinton No. 1			2.6 3																												
Council Bluffs 5 NE												1.0																		1.0	
Davenport WB City			0.8 T	T	T					T		T								T		T	T							T	
Decorah 2 S										T	T																				
Denison 1 S																															
Des Moines WB AP			3.9 3	T	T						T	T	T							T							1.2				
Dubuque WB City	T	T	T	T	T			T	T	T			T											T		T	T	T		T	
Fort Dodge																															
Grinnell			3.0 3	1	T							1.3 T																			
Guthrie Center					T																										
Iowa City AP CAA			1.3 1	T																											
Iowa Falls 1 N					T					T	0.5 T																				
Keokuk WB City					T	T	T																								
Lamoni AP CAA 4 WNW			2.4 2	T	T							T	T								T									T	
Maquoketa 5 E			0.5 -	4.0 -																											
Mason City AP CAA	T				0.1	0.3				T	T	T	T																		
Norwich 2 E SCS Farm			4.0 3											0.8																	
Oelwein					T	1.0																									
Osceola			8.0 7	T	T																										
Oskaloosa					5.0 1	0.2																								0.5	
Ottumwa AP CAA			4.1 2	T	T																										
Rock Rapids					T						0.5 T	0.5 T	T								T	T								1.0	
Saratoga 2 E					T																										
Shenandoah			2.0											0.5																	
Sioux City WB AP					T						0.6 T		T																		
Waterloo AP 5 NE					T																										

See reference notes following Station Index.

STATION INDEX

1984
APRIL 1986

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp	Precip										Temp	Precip		
Afton	0064	Union	9 41 02	94 13	1200	6P	6P	CLOSED	3-23-50	Morse 4 mi. SSW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4	
Akron	0088	Plymouth	1 42 49	96 33	1153	6P	6P	Orian C. Moore	3	Mount Ayr 2 mi. W	5769	Ringgold	9 40 44	94 14	1214	6P	6P	H. L. Cornelson	2 3 5		
Albia	0112	Monroe	6 41 02	92 48	949	3P	7A	Arthur L. Freed	2 3 5	Mount Pleasant	5796	Henry	21 40 57	91 32	730	6P	6P	A. N. Patterson	2 3 4 5		
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	Moville	5823	Woodbury	11 42 29	96 04				Einar W. Vidmark	3 4		
Allerton	0149	Wayne	9 40 42	93 23				Herman E. Reddy	3 4	Muscataine No. 1	5837	Muscataine	14 41 36	91 03	680	7P	7P	F. J. Baurbach	2 3 4 5		
Allison	0157	Butler	4 42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Muscataine No. 2	5842	Muscataine	14 41 25	91 03	546			Robert B. Hagy	3		
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Muscataine 6 mi. N	5847	Muscataine	14 41 30	91 03				CLOSED	2-23-50		
Alton	0181	Sioux	7 42 59	96 01	1303	7P	7P	W. S. Slagle	2 3 5	Rushua 2 mi. NW	5872	Floyd	4 42 59	92 34	990			William A. Cory	3		
Ames 3 mi. SW	0205	Story	21 42 00	93 39	1004	7P	7P	Charles M. Brown	2 3 4 5 6 7	New Hampton	5952	Chickasaw	27 43 04	92 19	1156	7P	7P	Loddy Hrdlicka	2 3 5		
Anamosa 1 mi. NW	0213	Jones	27 42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Newton	5992	Jasper	21 41 42	93 04	930	7P	7P	A. A. Scheel	2 3 5		
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	North English	6076	Iowa	4 41 29	92 05	789			Ernest E. Andrews	3 4		
Atlantic AP CAA	0369	Cass	16 41 24	95 02	1152	MID	MID	Airways Com. Sta.	2 3 4 5 7	Northwood	6103	North	4 43 27	93 13	1223	7P	7P	Charles A. Walker	2 3 5		
Audubon 2 mi. S	0385	Audubon	16 41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Norwich SCS Exp Fm. SE	6119	Page	22 40 45	93 13	1132	7P	7P	Soil Cons. Service	2 3 4 5 6 7		
Augusta	0389	Des Moines	21 40 46	91 17	522	2A	2A	Glen Wood	3	Oakland 2 mi. E	6151	Pottawattamie	16 41 19	95 23	1150	6P	6P	Ward D. Reineke	2 3 5		
Bancroft	0463	Kossuth	6 43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Oakland	6188	Johnson	10 41 43	91 24				Ed. Kadara	3 4		
Bartlett 2 mi. E	0493	Fremont	26 40 53	95 44				R. L. Kilpatrick	3	Oelwein	6209	Fayette	27 42 40	91 55	1036	8P	8P	Milo W. Frame	2 3 5 7		
Beaver	0549	Boone	6 42 02	94 08				Virgil J. Stark	3 4	Onawa	6243	Monona	15 42 02	96 06	1030	7P	7A	W. J. Oliver	2 3 5		
Bedford 1 mi. N	0576	Taylor	28 40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Osage	6305	Mitchell	4 43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5		
Belle Plaine	0600	Benton	10 41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Osceola	6310	Clarke	6 41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5 7		
Bellevue Lock & Dam 12	0608	Jackson	14 42 18	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Oskaloosa	6327	Waukesha	6 41 17	93 40	813	6P	6A	Cliff. Bergtresser	2 3 5 7		
Blackton 2 mi. S	0745	Taylor	19 40 36	94 29	1081	5P	5P	Glenn A. Cobb	3	Ottumwa AP CAA 5 mi. N	6389	Wapello	6 41 06	92 27	843	MID	MID	Airways Com. Sta.	2 3 4 5 7		
Bloomfield 2 mi. N	0753	Davies	8 40 47	93 25	825	7P	7P	Mrs. Leo Foster	2 3 5	Ottumwa	6391	Wapello	6 41 06	92 24	820			Winfrey Kinneer	3		
Boone	0807	Boone	6 42 04	93 25	1126	8P	8P	E. G. Kolb	2 3 5	Pella	6527	Marion	6 41 24	92 55	875	8A	8A	Arthur S. Ferris	3		
Bright	0923	Hancock	10 42 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Perry 2 mi. SE	6566	Dallas	20 41 42	94 06	975	5P	5P	Eugene S. Bastie	2 3 5		
Burlington WB Airport	1063	Des Moines	14 40 47	91 08	639	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Pocahontas	6719	Pocahontas	6 42 44	94 40	1226	5P	5P	Thomas A. Mc Mahon	2 3 5		
Carroll	1233	Carroll	20 42 04	94 53	1280	7P	7A	Ben R. Schenkelberg	2 3 5	Pringhar	6800	O'Brien	11 43 05	95 38	1017	6P	6P	R. A. Ballard	2 3 5		
Cascade	1257	Dubuque	12 42 18	91 00	880	7P	7P	C. J. Neiers	2 3 4 5	Red Oak	6940	Montgomery	10 41 01	95 13	1077	8P	8P	Clarence M. Tolly	2 3 5		
Castana 4 mi. E	1277	Monona	11 42 04	95 49				Bob Zimmerman	2 3 5	Red Oak 1 mi. NW	6941	Montgomery	10 41 01	95 14				Mrs. E. M. Conrad	3		
Cedar Falls	1300	Black Hawk	4 42 32	92 27	875	7P	7P	E. J. Cable	3	Rendon	6975	Plymouth	7 42 49	95 58				Municipal P & L Pl.	3 4		
Cedar Rapids No. 1	1316	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster	2 3 5 7	Ringsted	7058	Emmet	6 43 18	94 30				Marvin A. Trees	3 4		
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40				C. M. Simon	3	Riverton	7085	Fremont	16 40 41	95 35	920			William Stubbs	3		
Centerville	1354	Appanoose	5 40 43	92 53	1013	7A	7P	Earl McIntire	2 3 4 5	Rock Rapids	7147	Lyon	1 42 26	96 10	1341	7P	7P	George Ravelling	2 3 5 7		
Chariton 3 mi. E	1394	Lucas	5 41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Rockwell City	7161	Calhoun	20 42 24	94 37	1223	7P	7P	F. C. Reiterpacher	2 3 4 5		
Charles City	1402	Floyd	4 43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Sac City	7312	Sac	30 42 26	94 59	1274	8P	8P	W. Floyd Weary	2 3 5		
Cherokee	1442	Cherokee	11 43 45	95 35	1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7	Saint Ansgar 2 mi. S	7326	Mitchell	4 43 21	92 55				Irvin L. Halverson	3 4		
Clarence	1528	Cedar	4 41 53	91 03				Donald W. Harless	2 3 5	Saint Charles	7340	Madison	6 41 18	93 47				Rose E. Wise	3 4		
Clarinda	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Wankland	2 3 5	Sambora	7386	O'Brien	7 45 11	95 38	1552	7P	7P	Miss Susie O. Dow	2 3 5		
Clinton	1541	Flight	2 42 44	93 44	1170	7P	7P	George Reeder	3 5	Sheldahl 2 E	7410	Howard	22 42 22	92 22				Don A. Fairchild	2 3 5 7		
Clinton No. 1	1635	Clinton	14 41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Sheffield	7572	Franklin	4 42 54	93 13				Richard J. Galvin	3 4		
Clinton No. 2	1640	Clinton	14 41 50	90 11				David M. Swift	3	Sheldon	7594	O'Brien	7 43 10	95 51	1418	7P	7P	Rosa E. Forward	2 3 5		
Columbus Junction	1731	Louisa	10 41 17	91 22	595	6P	6P	Alice Best	2 3 5	Shell Rock	7602	Butler	4 42 43	92 35				Elmer J. Apfel	3 4		
Coon Rapids	1793	Carroll	20 41 51	94 39				Charles W. Smith	3 4	Shenandoah	7613	Page	16 40 46	95 23	974	6P	6P	Karl May Seed Co.	2 3 4 7		
Corning 1 mi. W	1833	Adams	17 41 00	94 45	1263	7P	7A	W. Earl Gibson	2 3 5	Sibley	7664	Osceola	1 43 24	95 45	1494	6P	6P	R. D. Steward	2 3 5		
Council Bluffs 6 mi. NE	1868	Pottawattamie	15 41 20	95 49				Mrs. R. O. Crane	3 4	Sidney	7669	Franklin	18 40 45	95 38	1050	6P	6P	James B. Shearer	2 3 5		
Council Bluffs 5 mi. NE	1889	Pottawattamie	15 41 19	95 49				Perry C. Crandall	2 3 5 7	Siourney	7670	Keokuk	21 41 20	92 12	780	7P	7A	Grace L. Sanderson	2 3 5		
Cresco	1954	Howard	23 43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Sioux Center	7700	Sioux	1 43 05	96 12	1456			Richard J. Kroon	3 4		
Creston	1962	Union	19 41 03	94 22	1300	7P	7A	Wesley Spangler	2 3 5	Sioux City 8 mi. N	7703	Plymouth	15 42 36	96 24				Leo Vondrak	3		
Cumberland 5 mi. NW	2007	Cass	17 41 18	94 55	1225	6P	6P	Carl E. Pollock	2 3 5	Sioux City WB Airport	7708	Woodbury	15 42 23	96 23	1093	MID	MID	U.S. Weather Bureau	2 3 4 5 7		
Cushing 3 mi. NE	2026	Ida	11 42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Sioux City 4 mi. N	7713	Woodbury	15 42 32	96 25				Dan McKelvey	3		
Dakota City	2037	Humboldt	6 42 44	94 12	1133	7P	7P	H. S. Brandagard	2 3 4 5	Sioux Rapids	7726	Buena Vista	11 42 53	96 08	1275	7P	7P	W. A. Simonsen	2 3 5		
Davenport WB City	2069	Scott	14 41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5 7	Soldier	7774	Monona	15 41 59	95 46				John T. Wade	3 4		
Decorah	2110	Winnebiek	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Spencer 1 mi. N	7044	Clay	11 43 10	95 09	1331	MID	MID	Radio Station KICD	2 3 4 5 7		
Decorah 2 mi. S	2112	Winnebiek	24 43 13	91 47	880	7P	7A	Nora A. Carlson	2 3 5	Spillville	7855	Winnebiek	14 43 12	91 57				Louis J. Benda	3 4		
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23	1063	7P	7P	Clair E. Paris	2 3 5	State Center	7925	Marshall	10 42 01	93 10	1068	7P	7P	Otha A. Sweet	2 3 5		
Denison 1 mi. S	2171	Crawford	4 42 00	95 22				E. M. Rugg	2 3 5 7	Storm Lake 2 mi. E	7979	Buena Vista	20 42 38	95 11	1455	8P	8P	Radio Station KAYL	2 3 5		
Derby	2195	Lucas	5 40 56	93 27				Lloyd A. Kirk	3 4	Strawberry Point	8009	Clayton	14 42 41	91 31				W. H. Swanziger	3 4		
Des Moines WB Airport	2203	Polk	6 41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Tabor 6 mi. NW	8131	Miller	15 40 57	95 43				Raymond C. Yates	3 4		
Des Moines WB City	2208	Polk	6 41 35	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Tingley	8255	Ringgold	19 40 51	94 12	1275	7P	7P	James A. Verplough	2 3 5		
Dexter	2240	Dallas	6 41 30	94 14				Joseph R. Harlan	3 4	Tipton	8266	Cedar	4 41 46	91 00	810	7P	7P	Edward S. Dean	2 3 5		
Donnellson 4 N	2299	Lee	6 40 42	91 33				LeRoy G. Frueh	3	Titonka 6 mi. NE	8270	Kossuth	6 43 17	94 00							

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

MAY 1950

Volume LXI No. 5



KANSAS CITY: 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

May 1950 was wet and somewhat cool on the average, though extremes of both hot and cold were experienced in Iowa. Precipitation averaged 4.89 inches, or 0.93 inch above normal, and the average temperature for the State was 59.8° which is 0.6° below the normal for May. Measurable precipitation occurred somewhere in Iowa on every day of the month with rather general coverage on about 15 days. Heaviest amounts fell in a wide zone extending from southwest Iowa to the northeast district. A total of more than 8 inches was recorded at Woodward and State Center and at several stations in the southwest and south central districts. Only in the east central and in the extreme northwest and southeast did precipitation fall below normal. Vegetative growth made little recovery from the cold experienced in April until mid-May, when temperatures returned to about normal for the last half of the month.

The 1st day of May saw minimum temperatures go below freezing with a state low of 22° at New Hampton in the northeast district. During the 2nd-3rd temperatures rose steadily and on the 4th maximum temperatures exceeded 90° with 93° reported from Sidney in the extreme southwest part of the State. The heat of the 4th was broken by thunderstorms scattered over most of the State in amounts ranging from a trace to about 3 inches in a few places.

On May 5th the most severe windstorm in many years swept over the State. Temperatures continued below normal during May 6th-11th. General rains fell on the 8th-9th with southwestern and south central Iowa receiving 4 to 5 inches and streams in that area overflowing into adjoining lowlands. The Des Moines River between Tracy and Ottumwa was two to four feet above flood stage on May 10th-11th. Losses were negligible. Scattered light showers occurred on the 12th.

Beginning with May 12, temperatures returned to near normal and remained seasonal for the remainder of the month with highs usually reaching the 70's or low 80's and lows often in the 50's, though the minimum at Spencer on the 20th did reach 34°. The high temperature for the month, 94°, was recorded at Inwood and Sioux City on the 23rd. Rather general light rains fell on the 16th, and many parts of the State received appreciable amounts of precipitation during the 18th-21st and 24th-26th. Heaviest rains occurred on the 23rd in west central Iowa, sending the Boyer and Nishnabotna rivers to flood stage in a matter of hours at some places.

The cool wet conditions the first half of May retarded spring plowing but improved the subsoil moisture supply and subsequent planting operations. Winds, freezing temperatures, and heavy rains thinned oats stands in some small local areas. Small grain and forage crops grew slowly during the cool period, but after the first decade the warmer days made possible a rapid improvement in crop conditions and few hay fields were cut late in May. By the end of May, practically all corn had been planted and some had been cultivated the first time; though in general, cultivation was somewhat behind schedule. Good stands were observed in most areas. Soybean planting was nearly two weeks behind average. More warm sunny days are needed in June if the fine hay crop is to be harvested and if corn and beans are to develop normally.

SEVERE WINDSTORM OF MAY 5

An intense windstorm with speeds of gale and hurricane force lashed the entire State from 9:00 A.M. until midnight on May 5. Wind speeds in gusts reached an official peak of 90 mph at the Des Moines Airport at 1:31 P.M. and unofficial readings from other airport locations reported winds up to 100 mph. Because of the path of the low pressure area which gave these extreme winds, the counties bordering the Missouri River, particularly north of Sioux City experienced winds of 20 to 30 mph less than the rest of the State. The center line of most extensive destruction was close to the 93rd meridian. Without a doubt, this windstorm on a statewide basis was one of the most destructive in the history of the State. The lowest barometer reading for any date in May was recorded at Des Moines and Charles City. The storm left a trail of broken glass, tangled telephone and power lines, unroofed buildings, toppled trees, and miscellaneous damage. The strong winds made highway travel hazardous and most of the accidents that day could be attributed to the gusty winds.

Reports from several Iowa insurance companies attested to the severity and widespread character of the storm. The number of claims from these companies was twice that of the windstorm last fall on October 10. Several companies also reported loss claims for damage would exceed anything experienced in their history. One company, operating mainly in rural areas, had received over 44,000 claims totaling over \$3,000,000. Another company, operating mainly in towns, had received over 17,000 claims. A conservative estimate of the damage is placed at five million dollars. Three persons were killed and 22 were reported injured.--GLB

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages -- mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin Series, data from Hydroclimatic Network Stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal Agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
MAY 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
Burlington WB AP	SE	11	9.9	68	SW	5	74	80	58	57	7	4	2	1	1	0	15	58	6.5	115
Charles City WB City	-	-	7.7	42	SW	5	-	-	-	-	5	2	5	5	1	0	18	51	5.9	216
Davenport WB City	-	-	-	-	-	-	-	-	-	-	6	4	3	0	2	0	15	-	-	114
Des Moines WB City	SE†	10†	10.2	71	SW	5	77†	83†	60†	60†	4	5	5	1	2	0	17	49	6.7†	139
Dubuque WB City	-	-	6.5	32	SE	5	-	-	-	-	5	2	5	2	1	0	15	67	6.5	159
Sioux City WB AP	NNE	14	10.7	-	-	-	79	83	58	56	5	5	6	1	1	0	18	67	6.5	231

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	56.5	86	38	5.99			1903	61.6	91	24	8.55	0	16	1933	60.5	93	32	4.86	0	12
1874	64.1	94	41	1.88			1904	59.6	93	27	3.78	0	8	1934	69.6	111	30	1.02	0	4
1875	60.5	91	26	2.94			1905	58.3	88	28	5.95	0	14	1935	55.0	84	23	4.84	0.3	15
1876	61.1	90	32	2.84			1906	60.8	95	24	3.54	0	11	1936	66.2	95	31	2.91	0	9
1877	60.3	92	29	4.30			1907	53.5	96	14	3.48	1.0	10	1937	61.8	95	27	4.07	0	12
1878	55.7	88	32	5.01			1908	59.4	93	13	8.34	0	15	1938	59.5	89	29	5.45	0.6	14
1879	62.9	93	26	4.38			1909	57.9	97	18	4.34	0.1	9	1939	66.4	105	30	2.07	0	7
1880	66.3	96	37	4.06			1910	55.4	89	18	3.41	T	10	1940	58.4	96	26	2.07	0.1	8
1881	66.7	95	35	3.73			1911	64.9	98	23	3.76	0.7	9	1941	66.0	97	31	3.26	T	9
1882	54.3	83	24	5.42			1912	62.7	97	29	3.33	0	10	1942	59.3	95	26	4.70	T	12
1883	54.6	90	31	6.25			1913	59.4	102	30	6.24	0	13	1943	57.5	97	21	4.40	T	12
1884	59.6	88	33	3.15			1914	62.2	98	25	3.31	T	10	1944	64.6	95	23	6.13	0.3	15
1885	57.4	86	27	3.44			1915	56.1	99	25	7.34	T	14	1945	55.1	89	21	6.17	0.8	15
1886	62.5	96	30	3.38			1916	59.9	94	27	4.93	T	12	1946	56.5	89	19	4.45	0.1	13
1887	64.6	96	34	1.55			1917	55.1	95	25	3.87	0.6	10	1947	55.6	91	22	4.26	1.1	12
1888	53.8	88	22	6.58			1918	64.9	98	25	6.87	T	13	1948	59.2	97	26	2.34	0	7
1889	59.2	92	22	4.06			1919	58.2	93	30	3.11	0	9	1949	63.5	95	28	2.68	T	10
1890	56.5	96	26	3.64			1920	59.4	89	29	3.26	0	8	1950	59.8	94	22	4.89	T	11
1891	58.3	94	21	3.18		8	1921	63.3	99	25	4.23	0	10							
1892	54.0	88	29	8.77	T	16	1922	63.4	91	34	3.53	0	12							
1893	56.6	96	26	3.45	0	9	1923	59.6	90	20	2.84	T	10	PERIOD	60.1			4.07	0.1	
1894	61.1	96	22	1.87	0	6	1924	54.1	94	26	1.71	0.1	9							
1895	61.7	104	24	3.19	0	9	1925	57.8	102	20	1.16	T	6							
1896	65.5	100	34	6.69	0	12	1926	64.5	97	25	2.76	0	9							
1897	58.5	96	20	1.92	0	5	1927	58.4	91	30	4.69	T	11							
1898	59.6	92	26	4.67	0	12	1928	62.6	93	26	2.47	0	8							
1899	60.2	90	27	6.23	0	13	1929	57.7	91	24	2.47	T	8							
1900	63.2	98	22	3.31	0	8	1930	60.2	91	26	3.72	T	11							
1901	60.7	95	28	2.35	0	7	1931	57.5	98	21	2.99	T	9							
1902	63.8	97	25	5.39	0	13	1932	62.3	95	28	3.99	0	10							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
MAY 1950

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	56.8	-3.2	89	23	26	1	0	2	3.77	-.62	1.12	8	.0	0		13	5	1
Alton	58.2	-.8	93	24	24	1	2	2	3.40	-.35	.62	5	.0	0		11	6	0
Cherokee	56.9	-2.7	89	23	25	1	0	2	4.15	.35	1.16	8	.0	0		10	6	1
Emmetsburg	56.7M		88	23	27	1	0	1										
Estherville	57.1	-.6	90	23	26	1	1	2	3.83	-.19	.79	21	T	0		16	5	0
Inwood 2 W	56.0	-2.6	94	23	23	1	1	2	2.28	-1.22	.53	13	T	T	1	10	3	0
Lake Park	55.4	-2.9	88	23	26	1	0	2	3.21	-.59	.52	8	T	0		12	9	0
Le Mars	58.7	-1.0	93	23	27	1	1	1	3.03	-.91	.61	16	.0	0		11	5	0
Milford 4 NW	56.0	-2.3	90	23	25	1	1	2	3.14	-.66	.66	21	.0	0		15	6	0
Pocahontas	56.7	-2.5	89	23	27	1	0	2	5.10	1.26	1.45	8	.0	0		13	6	1
Pringhar	57.7	-1.1	90	24	25	1	1	3	3.89	.19	.54	5	.0	0		13	8	0
Rock Rapids	55.6	-2.8	92	23	27	1	1	2	4.39	.89	1.02	8	T	T	4+	12	6	1
Sanborn	56.2M	-2.2	90	23	27	1	1	2	3.76	.06	.53	5	.0	0		14	8	0
Sheldon	56.0	-2.5	90	23	24	1	1	2	3.55	-.10	.66	5	T	0		16	6	0
Sibley	54.8	-2.6	89	23+	25	1	0	3	3.47	-.23	.64	5+	T	T	5	12	6	0
Sioux Rapids	56.8M	-2.7	92	23	24	1	1	2	4.53	.73	1.25	8	T	0		9	7	1
Storm Lake 2 E	57.8	-1.4	88	23	29	1	0	2	4.54	.64	1.25	8	.0	0		13	6	1
DIVISION	56.7	-2.1							3.75	-.03			T					
NORTH CENTRAL DIVISION																		
Algona	57.6	-2.0	85	23	28	1	0	2	6.55	2.43	1.45	5	.0	0		14	8	3
Allison	59.1	-.2	85	23	28	1	0	1	7.85	3.50	2.28	8	.0	0		12	7	4
Bancroft	58.0	0.0	90	23	27	1	1	1	6.41	2.36	2.00	5	.0	0		12	7	2
Britt	54.9	-3.8	86	24	25	1	0	3	3.71	-.59	.90	8	.0	0		11	5	0
Charles City	58.3	-.2	82	23	30	1	0	1	6.28	1.85	1.26	8	T	0		13	9	1
Clarion	57.3	-2.2	86	23	28	1	0	1	6.10	2.05	1.45	9	.0	0		13	7	2
Dakota City	58.0	-1.7	86	23	28	1	0	1	7.11	3.09	1.95	5	.0	0		12	6	3
Forest City	56.7	-1.7	86	23	28	1	0	2	4.17	.04	1.50	9	T	0		12	3	1
Hampton	58.3	-.7	85	23	29	1	0	1	7.47	3.02	1.97	9	T	0		16	7	3
Mason City 3 N	56.7	-1.6	85	23	28	1	0	2	5.01	.85	1.48	29	.0	0		11	7	2
Mason City AP CAA	55.8	-2.5	85	23	28	1	0	2	5.04	.88	1.43	8	.0	0		15	5	2
Northwood	56.1M	-1.7	83	23	27	1	0	2	3.99	-.54	1.18	9	.0	0		14	5	1
Osage	56.7	-1.1	80	23	28	1	0	1	4.75	.35	1.50	9	.0	0		11	7	1
DIVISION	57.2	-1.6							5.75	1.49			T					
NORTHEAST DIVISION																		
Cascade	59.9		86	24	30	1	0	1	2.95		.85	9	.0	0		12	4	0
Cresco	56.8	-.7	83	23	27	1	0	2	4.83	.43	1.70	5	.0	0		10	4	2
Decorah 2 S	56.7	-.5	85	24	27	1	0	4	4.35	-.07	1.36	9	.0	0		10	3	3
Delaware 2 W	58.8	-.1	88	24	26	1	0	1	4.02	-.02	1.27	9	T	0		9	4	2
Dubuque Lock & Dam 11	57.6	-2.7	84	24	30	1	0	1	4.17	.27	1.99	25	.0	0		13	4	1
Dubuque WB City	60.8	.5	88	24	33	1	0	0	3.99	.09	1.20	24	.0	0		10	5	1
Elkader	57.9M	-.7	85	24	25	1+	0	2	5.09	.94			.0	0		11		
Fayette	58.2	-.8	84	24	26	1	0	2	5.80	1.45	1.02	25	T	T	4+	10	7	1
Independence 2 W	59.5	.1	88	24	28	1	0	1	3.49	-.57	1.04	9	T	0		10	5	1
New Hampton	55.7M	-2.6	81	24	22	1	0	2	7.24	2.69	2.11	5	.0	0		9	7	3
Saratoga 2 E	55.2		79	23	27	1	0	3	3.29		.88	9	.0	0		11	5	0
Tripoli	59.7		83	24	28	1	0	1	4.84		1.12	9	T	0		12	7	1
Waterloo AP 5 NE	59.5	-.6	84	23+	32	1	0	1	4.31	.47	.80	24	.0	0		10	7	0
Waukon	57.2	-1.3	84	24	28	1	0	2	4.89	.49	1.07	24	.0	0		9	6	1
DIVISION	58.1	-.9							4.52	.35			T					
WEST CENTRAL DIVISION																		
Audubon 2 S	57.7	-2.6	87	4	29	1	0	1	6.18	2.67	1.65	9	T	0		14	6	2
Carroll	60.4	.5	90	23	29	1	1	1	6.43	2.61	2.40	9	.0	0		9	4	2
Castana 4 E	58.4		88	23	30	1	0	1	5.53		1.37	8	T	0		14	7	1
Cushing 3 NE	58.7	-1.0	90	23+	28	1	2	1	5.02	1.42	1.35	8	T	0		15	8	1
Denison 1 S	59.0	-1.2	88	4+	29	1	0	1	7.02	3.30	1.73	24	T	0		12	7	3
Guthrie Center	60.0	-.9	86	23	29	1	0	1	5.65	1.86	1.20	9	.0	0		14	7	1
Harlan	60.5	0.0	89	23	29	1	0	1	5.99	2.40	1.77	4	.0	0		9	8	1
Jefferson	60.0	-.5	86	23	28	1	0	1	9.49	5.59	2.04	24	T	T	4	14	7	4
Lake City	59.1	-.9	90	23	27	1	1	1	7.74	3.94	1.75	5	.0	0		9	6	4
Logan	60.4	-1.3	89	23	29	1	0	1	4.50	1.03	1.34	25	.0	0		10	7	1
Mapleton 5 NW	59.3M	-1.3	92	23	28	1	1	1	5.14	1.49	1.70	29	.0	0		10	5	2
Missouri Valley	62.1	-.4	91	23	31	1	1	1	4.32	1.02	1.33	25	T	0		11	6	1
Onawa	59.4	-2.4	93	23	29	1	1	1	4.21	.44	1.73	8	.0	0		9	4	1
Rockwell City	58.9	-.9	88	23	29	1	0	1	6.93	2.79	1.45	5	T	0		12	7	4
Sac City	59.2	-.5	91	23	31	1	1	1	5.16	1.54	1.14	8	.0	0		11	7	2
Sioux City WB Airport	58.1	-1.8	94	23	29	1	1	1	3.22	-.38	1.24	8	T	0		13	4	1
DIVISION	59.5	-1.1							5.78	2.10			T					
CENTRAL DIVISION																		
Ames 3 SW	59.7	-.9	86	23	27	1	0	1	7.14	2.96	1.43	21	T	0		12	7	4
Boone	60.6	.4	88	23	31	1	0	1	7.48	3.33	1.66	9	T	0		14	7	3
Des Moines WB Airport	61.1	.1	86	4+	32	1	0	1	5.60	1.52	2.01	20	T	0		13	4	2
Des Moines WB City	61.7	-.1	87	4+	32	1	0	1	4.91	.83	1.47	20	T	0		13	4	2
Fort Dodge	58.7	-.9	87	23	27	1	0	1	6.59	2.62	2.48	9	.0	0		11	3	3
Grinnell	60.8	-.3	88	24	26	1	0	1	4.88	.67	2.25	9	T	0		12	6	1
Grundy Center 4 NE	58.4	-.8	84	24	26	1	0	1	7.39	3.11	1.63	9	T	0		11	7	4
Iowa Falls 1 N	58.6	-.8	85	23	27	1	0	1	6.60	2.59	2.65	9	.0	0		9	6	2
Marshalltown	59.5	-1.3	89	25	27	1	0	1	6.54	2.50	2.32	9	.0	0		9	5	3
Newton	62.1	.9	88	24	30	1	0	1	2.86	-1.29	1.34	9	.0	0		9	3	1

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
MAY 1950

Table 2—Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
Perry 2 SE	59.7	-1.4	86	4	27	1	0	1	7.08	3.27	2.49	5	T	0		14	6	3
State Center	61.4	.9	89	24	31	1	0	1	8.27	4.17	1.67	4	T	0		14	6	5
Toledo	60.4	0.0	89	24	27	1	0	1	5.11	.85	2.36	9	T	0	4	13	4	1
Waukesha	61.7	.5	86	4+	32	1	0	1	4.78	.91	1.32	21	T	0		11	5	1
Webster City	58.9	-.8	86	23	25	1	0	1	6.28	2.23	1.69	9	T	0		10	7	2
DIVISION	60.2	-.4							6.10	2.02			T					
EAST CENTRAL DIVISION																		
Anamosa 1 NW	60.0	.1	85	24	26	1	0	1	3.31	-.63	1.11	9	.0	0		15	5	1
Belle Plaine	61.0	.3	90	24	27	1	1	1	3.40	-.80	1.21	9	.0	0		12	4	1
Belleveue Lock & Dam	59.2	-1.4	88	24	30	1	0	1	2.01	-1.79	.65	9	.0	0		11	3	0
Cedar Rapids No. 1	61.0	-.1	89	24	27	1	0	1	3.63	-.09	1.37	9	T	0		14	5	1
Clinton No. 1	62.7	1.5	90	24	31	1	1	1	1.36	-2.67	.67	9	.0	0		8	2	0
Davenport WB City	62.8	.9	89	24	33	1	0	0	3.41	-.16	1.33	4	T	0		9	3	2
Iowa City	61.7	.7	88	24	29	1	0	1	3.04	-1.20	1.06	9	.0	0		11	3	1
Iowa City AP CAA	61.3	.3	87	23+	28	1	0	1	3.13	-1.11	.91	9	.0	0		11	4	0
Le Claire Lock & Dam	61.5		85	24	32	1	0	1	2.96	-.95	.93	4	T	0		10	4	0
Maquoketa 5 E	60.5	-.1	87	24	30	1	0	1	2.36	-1.39	.37	4	T	T	4	10	4	0
Muscatine No. 1	63.1	1.5	91	24	30	1	1	1	3.00	-.69	1.36	9	T	0		10	3	1
Tipton	60.5	-.4	88	24	28	1	0	1	3.56	-.14	1.22	9	T	0		9	3	1
Vinton	62.7	1.8	89	24+	37	3+	0	0	3.86	-.24	.97	21	.0	0		8	6	0
Williamsburg	61.7	.6	88	24	30	1	0	1	3.10	-.80	1.47	21	.0	0		6	2	2
DIVISION	61.4	.5							3.01	-.86			T					
SOUTHWEST DIVISION																		
Atlantic 1 E	60.6	-.5	88	4+	28	1	0	2	3.87	.32	1.38	9	T	0		15	5	1
Atlantic AP CAA	58.7	-2.4	90	4	28	1	1	1	3.41	-.14	1.30	8	T	0		14	5	1
Bedford 1 N	61.2	-.3	88	4	31	1	0	1	4.79	.65	2.10	9	T	0		5	5	2
Clarinda	62.8	1.0	90	4	31	1	1	2	5.66	1.60	2.64	9	.0	0		12	6	1
Corning 1 W	61.4	.6	88	4	31	1	0	1	6.27	2.10	4.11	9	T	0		10	4	1
Council Bluffs 5 NE	60.6		90	4	28	1	1	2	5.91		1.77	9	.0	0		12	6	3
Glenwood 2 E	61.5	-1.2	90	4	31	1	1	1	9.45	6.20	4.17	9	.0	0		10	7	2
Greenfield	60.4	-.1	87	4	29	1	0	1	5.82	2.02	1.86	9	.0	0		13	5	2
Oakland 2 E	60.1	-1.4	89	4	28	1	0	1	5.35	1.95	1.40	9	T	0		15	6	1
Red Oak	61.0	-.6	89	4	31	1	0	1	7.03	2.95	3.41	9	T	0		13	6	2
Shenandoah	63.0M	0.0	92	4	32	1	2	1	8.82	4.72	4.55	9	.0	0		12	8	2
Sidney	63.0		93	4	37	1	2	0	9.26		4.22	9	T	T	20	12	9	2
DIVISION	61.2	-.6							6.30	2.45			T					
SOUTH CENTRAL DIVISION																		
Albia	62.5	.9	88	24	31	1	0	1	4.39	.31	2.38	9	.0	0		11	3	2
Centerville	63.4	.7	87	24	29	1	0	1	3.67	-.63	1.30	9	.0	0		10	6	1
Chariton 3 E	61.5	.7	87	24	26	1	0	1	8.33	4.59	3.80	9	.0	0		10	6	2
Creston	61.1	1.0	87	4+	32	1	0	1	6.43	2.53	4.40	9	T	0		14	3	1
Indianola	62.3	.5	89	24	31	1	0	1	4.97	.95	1.60	9	.0	0		11	5	2
Knoxville 2 W	62.6	.6	88	24	32	1	0	1	4.07	.33	1.95	9	T	T	5	8	6	1
Lamoni AP CAA 4 WW	61.3		87	4+	30	1	0	1	4.57		1.36	9	T	0		13	5	1
Millerton	61.4	-.1	86	24	30	1	0	1	3.63	-.49	1.53	9	.0	0		8	4	1
Mount Ayr 2 N	61.7	.2	87	4	30	1	0	1	6.99	2.79	2.64	9	.0	0		8	8	1
Osceola	62.3	1.0	88	24	31	1	0	1	7.01	2.81	4.65	9	T	0		13	4	1
Tingley	61.5	.1	87	4	31	1	0	1	8.84	4.94	4.50	9	T	0		12	6	2
Winterset	61.9	.0	88	24	30	1	0	1	5.24	1.32	1.74	9	.0	0		12	7	2
DIVISION	62.0	.5							5.68	1.66			T					
SOUTHEAST DIVISION																		
Bloomfield 2 N	63.7M	1.6	90	24	30	1	1	1	1.91	-2.39	1.00	21	.0	0		5	2	1
Burlington WB Airport	62.4	.3	88	24	34	1	0	0	3.10	-1.04	1.56	9	.0	0		8	4	1
Columbus Junction	62.3M	.5	89	24	32	1	0	1	4.57		1.85	21	.0	0		7	3	2
Fairfield	62.2	.8	90	24	39	1	1	0	4.27	.07	.65	9	.0	0		8	2	0
Keokuk Lock & Dam	64.2	.8	88	25	37	1			1.64	-2.19						8	2	0
Keokuk WB City	64.2	.8	90	24	36	1	1	0	1.68	-2.15	.62	9	.0	0		8	2	0
Keosauqua State Park	64.0	1.8	90	24	32	1	1	1	2.22	-1.81	1.34	9	.0	0		8	2	2
Mount Pleasant	63.2	.8	90	24	30	1	1	1	3.47	-.50	1.93	9	.0	0		5	2	1
Oskaaloosa	62.7	1.2	88	24	31	1	0	1	4.15	-.40	2.27	9	.0	0		11	3	1
Ottumwa AP CAA	62.7	-.4	90	24	32	1	1	1	3.79	-.31	2.05	9	.0	0		10	4	1
Sigourney	62.5	.7	88	24	30	1	0	1	3.91	.00	2.24	9	T	0		11	2	1
Washington	62.8	1.0	89	24	30	1	0	1	3.10	-.61	2.00	9	.0	0		6	2	1
DIVISION	63.1	1.0							3.02	-.96			T					
STATE	59.8	-.6							4.89	.93			T					

DAILY PRECIPITATION

IOWA
MAY 1950

Table 3-Continued

Station	Day of month																															Total				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Logan		T			.48			.94	.29			.07		T					.36	.30			.03	1.34	.06	T	T	.63					4.50			
Lorimer					.60			.35	4.75							T			.38	.15			.28	.20	.10	.15	.17	.08					8.13			
Mapleton 5 NW					.75			1.28	.10							.23			.32	.19			.28	.14				1.70					5.18			
Maquoketa 5 E				.37				.08	.87			T	.13			.19			.11	.26			.04	T							.25	.06	2.38			
Marion 4 NE	R			.50				*	.30						.05							.03	T							.05			.98			
Marshalltown	Z			.68	1.14	.06		.24	2.32							.47		.18					.52			.16							6.54			
Mason City 3 N					.12			1.30	.30			T				.53			.06	.17	.10	.02	.17	.54	.31		.05						5.01			
Mason City CAA AP			.06	.07	.12			1.43	.15			T				.57			.47				.06	.31	.03								5.04			
Merrill 5 W	Z	.06	.03		.98			.32	.53			.05				.30			.32	.26	T	.66		.04	.17						.01		3.24			
Milford 4 NW	Z	.06	.01		.40			.42	.20			.21																					.01	3.14		
Millerton					.05			.10	1.53							.31			.18	T	.64												3.63			
Missouri Valley	Z		T	T	.40			.92	.13			T				.06	T	T	.41	.31	.03		1.82	.33	.07	.59	.02	T					4.32			
Monona	R				.82	.20		.84	.66							.08		.03		.10	.16	.04											5.25			
Montezuma					.32	1.67		.32	1.67	.01			.11			T			.14		.10	.36	.06										3.42			
Morse	R				.75			.05	.95			.05	.03			.08																		2.64		
Morse 1 NE	R				.77			.06	.97			.03	.04			.06			.15		.40		.09										2.72			
Morse 4 SSW	R				.74			.06	.95			.04	.08			.09			.14		2.41					.33	.30	.71					4.68			
Mount Ayr 2 N	Z				.64			.64	2.64							.86			.23		.87												6.99			
Mount Pleasant	Z	.03							1.93							.23			.23		1.11													3.47		
Noville	R				.48			1.60	.04			.06	.28			.24	.10								.04									3.34		
Muscatine No. 1	Z			.61	.03			T	1.36					T		.11			.04	T	.72		T	.02	.02	T							3.00			
Muscatine No. 2	Z			.50	.01			.50	.01	.02						.04			.04	.44		.03	.16											2.36		
Nashua 2 NW				.03	.77	.03		.03	.77	.01		.03				.03	.44				.33	.07	.23	.45	1.31		1.35						5.92			
New Hampton				.24	2.11			.46	1.58							.55			.31		T	.14	T											7.24		
Newton				.08		.06		.56	1.34					.18					T						.01	.33								2.86		
North English	R							*	1.28							.03			.11		1.76		*	*	*	*	*							3.32		
Northwood			T	.05	.13	.08		.98	1.40				.38			.05		.48		.23	.04		.02	.09										3.99		
Oakland 2 E		.03	.12		.83			.02				.02	.05			.07			.06	.56	.08	.56		T	.41	.08	.03	.14						5.35		
Oasis	R								1.02																											
Oelwein				.59				.93	.90																										4.21	
Onawa		T	T	T	.76			1.73			T	.08				.16			T	.18	.30		.15	.36	.09									4.75		
Osage					.32	.05			1.50				.10	.16					.55		.20	.30			.09	.05	.05	.02						7.01		
Oscola			.03					.61	4.65							.17			.02	.35	.01	.70												4.15		
Oskalocosa			T	T	T	T	.02	.37	2.27							.08			.08		.05	.22	.08			.06	T	.69						3.79		
Ottumwa AP CAA	Z		T	T	T			.03	2.05							.09									.10	T	.10	.46						4.13		
Ottumwa								.04	2.33									.09						.48	.20										4.54	
Pella					.14			.70	2.14				.10	.16					T	.06			.12	.06	.40	T	.25							7.08		
Perry 2 SE		T	.02	.13	2.49			.75	1.08				.01			.50			.20	.30	.08			.06	.40	T	.25							5.10		
Pocahontas					.70	.09		1.45	.90	.01			.10			.50			.48	.45					.22										3.89	
Pringhar		.10			.54	.04		.42	.30																.22										7.03	
Red Oak			T	T	.03	.04		.63	3.41							.08			.08	.27	.62			.19	1.18	.27	.13								3.45	
Rensselaer					.50			.89	.01				.20			.57			.33	.40															5.47	
Ringsted	R				1.75			.75	.16			.12				.49			.22	.29	.24	.93			.40	.04									6.32	
Riverton		.05		T				.53	2.53							.09			.49	.24				1.10	.25	.36	.04								4.39	
Rock Rapids		T	.14		T	.70		1.02	.34							.20			.92	.46	T	.28		.08	.15									6.93		
Rockwell City	Z					1.45		1.18	1.38							.28			.11	.19	.03	1.04		.13	.84		.02							5.16		
Sac City		T	T	T	.05	1.04		1.14	.76			T	T			.37			.18	.16		.65		.27	.45										4.84	
St. Ansgar 2 S	R				*	*	.27	1.06	.29			.04	.60			.44			.23	.25			.10	.40	.40									5.11		
Saint Charles	R		.04	1.20				1.56	.55				.02			.47			.04	.26	.91	.10		.03	.11										3.76	
Sasborn		.06			.53			.45	.35				.13			.53			.26	.43	.12	.27													3.29	
Saratoga 2 E				T	.33			.27	.88			T	.23			.22			.28	.14	.39	.01		.08	.68										4.97	
Sheffield	R		.04	T	.10	.22	.01	2.10	.09			.08				.50			.03	.14	.39	.12		.09	.29	.39		.05	.04	T	.02			3.55		
Sheldon					.66			.62	.40			.16				.42			.09	.42	.12	.18		.18	.35	.20									5.01	
Shell Rock	R			.06	1.16			1.40	.58							.45			.43	.20				1.03	.45	.03									8.82	
Shenandoah			T	T	.11			.56	4.55							.13			.34	.66	.28	.48													3.47	
Sibley		.16			.64			.64	.26				.13			.28			.24	.35		.48		T	.09	.13									9.26	
Sidney		.15			.32			.78	4.22							.12			T	.57	T	.22		.28	1.19	.47	.30								3.91	
Sigourney					.02			.06	2.24							.03		.96							.16											3.66
Sioux Center	R		.07	.96	.40			.97								.29			*	.34		.48													3.50	
Sioux City 8 N			.10		.78			.48	.86							.58																				3.22
Sioux City WB AP	Z	.01	.01	T	.22	.54		1.24	.01							.15	.15	T	T	.21	.31		T	.03	.02										4.53	
Sioux Rapids			.07		.70			1.25	.52							.62			.46	.21	.40	.30		T	T										4.90	
Soldier	R				.82			1.42								.10			.31	.28	.33	.34		.16	.04										5.18	
Spencer 1 N	R				.08																															

SUPPLEMENTAL PRECIPITATION DATA
For the Storm of May 8, 1950

IOWA
MAY 1950

Location	Section	Township	Range	Amount	Reported by	Type of Gage
Henderson 5 E	4	73N	39W	3.25	W. E. McMullen	Rain, 3/4" x 5.50"
Red Oak 10 N	12	73N	39W	3.50	Harold Aiken	Coffee Can, 3 1/2" deep, 5" diam.
Elliott 4 W	5	73N	38W	5.50	C. G. Doolittle	Straight-sided feed bunk
Elliott	1	73N	38W	4.00	W. A. Kennedy	Rain, 3/4" x 5.50"
Elliott 3 E	3	73N	37W	3.00	Blair Botts	5-gallon can
Elliott 5 E	2	73N	37W	2.75	Paul Kneedy	5-qt. oil can, 6 1/2" diam., 9 1/2" deep
Wallin 3 N	23	73N	37W	3.75	Dick Stewart	5-gal. can, 13" deep, 11" diam.
Red Oak 7 NE	30	73N	37W	4.60	Jay Stafford	Victor Rain Gage
Stanton 1 1/2 S	10	71N	37W	5.92	Harry Rea	Pioneer Rain, 3/4" x 5.50"
Red Oak 4 NW	1	72N	39W	4.80	Marshall Rea	Pioneer Rain, 3/4" x 5.50"
Red Oak 3 N	9	72N	38W	4.20	Roy Tull	Rain, 3/4" x 5.50"
Red Oak 3 NE	14	72N	38W	4.75	Frank Swanson	Rain, 3/4" x 5.50"
Stanton 2 1/2 NNE	23	72N	37W	4.35	Bert Palmanist	Rain, "
Red Oak 4 E	30	72N	37W	4.25	D. Lindell	Rain, "
Red Oak 2 NW	19	72N	38W	4.00	J. B. Cleaver	Rain, "
Emerson 4 NE	8	72N	39W	3.25	Naylor Bass	1-gallon can
Emerson 4 SE	6	71N	39W	3.75	Adrian Wookey	Comm. Appliance Rain Gage
Red Oak 6 SW	15	71N	39W	5.25	Harry Shafer	Rain, 3/4" x 5.50"
Red Oak 4 S	20	71N	38W	4.00	C. M. Barton	Rain, "
Sidney 5 W	24	69N	43W	5.50	C. P. Schaaf	Rain, "
Thurman	36	70N	43W	6.00	T. Hickey	Rain, "
Thurman 2 NW	21	70N	43W	5.00	O. Pierce	Rain, "
Bartlett 1 S	9	70N	43W	5.00	Floyd Howery	
Tabor 3 E	1	70N	42W	5.00	Lundeen	Alka-Seltzer bottle, 1" diam.
Randolph 1 W	18	70N	41W	5.50	H. Omer	Rain, 3/4" x 5.50
Tabor 1 SSE	10	70N	42W	4.60	D. Bell	Rain, "
Tabor 2 1/2 SSE	15	70N	42W	4.00	C. Wells	Alka-Seltzer bottle, 1" diam.
Tabor 3 SE	13	70N	42W	5.20	H. S. Eaton	Rain, 3/4" x 5.50"
Sidney 4 N	36	70N	42W	6.00	W. Blezek	Rain, "
Anderson	6	69N	41W	5.50	F. Hatch	Rain, "
Sidney 4 E	29	69N	41W	5.50	L. Fender	Rain, "
Riverton	29	68N	41W	3.06	Stubbs	Rain, "
Riverton 2 S	4	67N	41W	2.60	Hays	Rain, "
Franklin 4 E	20	67N	41W	2.50	E. Athen	Rain, "
Franklin 8 E	25	67N	41W	2.50	Zack Brown	Rain, "
Franklin 11 E	27	67N	40W	2.75	H. Wieder	Rain, "
Shenandoah 8 S	3	67N	40W	2.75	C. Thompson	Rain, "
Shenandoah 8 SSW	4	67N	40W	3.50	Don Steinkamp	Rain, "
Riverton 5 SE	12	67N	41W	2.75	A. Butt	Straight-sided can
Riverton 5 E	30	68N	40W	5.00	H. Gardner	Rain, 3/4" x 5.50"
Riverton 8 E	22	68N	40W	3.00	Dale Randolph	Rain, "
Shenandoah 2 SSW	36	69N	40W	5.00	H. Bredenstiener	
Farragut 1 NE	8	68N	40W	5.00	A. S. Phipps	Rain, 3/4" x 5.50"
Shenandoah 5 W	19	69N	40W	5.00	Jesse McIntyre	Rain, "
Shenandoah 7 W	14	69N	41W	5.80	Miles Edgar	Straight-sided 5-gal. can
Shenandoah 9 W	16	69N	41W	5.50	Lee Gove	Rain, 3/4" x 5.50"
Shenandoah 9 WNW	10	70N	41W	5.25	Schaaf	Rain, "
Shenandoah 6 NW	5	69N	40W	5.00	Ralph Moody	Rain, "
Shenandoah 8 NW	20	70N	40W	5.50	L. Hughes	Rain, "
Randolph 3 1/2 E	7	70N	40W	5.75	Jordon	
Randolph	9	70N	41W	5.00	H. R. Dodd	Rain, 3/4" x 5.50"
Shenandoah 7 N	13	70N	40W	5.50	B. Pardee	Rain, "
Tabor 1 W	5	70N	42W	5.25	Noellsch	Rain, "
Tabor	4	70N	42W	6.75	Barber	
Thurman 2 NE	30	70N	42W	5.00	Abbott	Water Tank
Thurman 1 1/2 NE	30	70N	42W	5.50	W. M. Kimsey	Oil Drum
Tabor 2 1/2 SW	7	70N	42W	8.00	D. A. Boyer	Tank
Tabor 1 1/2 SW	7	70N	42W	6.00	G. Plank	
Tabor 2 SW	17	70N	42W	5.80	R. Baggs	
Thurman 3 NE	20	70N	44W	4.75	F. Vanatto	Straight-sided can
Thurman 3 NE	29	70N	44W	4.75	D. Douglas	
Tabor 4 S	28	70N	42W	4.75	Owen Dyke	Rain, 3/4" x 5.50"
Sidney 4 NNW	4	69N	42W	5.00	R. Parrish	Rain, "
Sidney 2 1/2 N	15	69N	42W	5.75	C. Polk	Rain, "
Sidney Hotel	26	69N	42W	5.00	Shearer	
Hamburg 2 1/2 N	3	67N	42W	2.00	Prather	Rain, "
Hamburg	21	67N	42W	2.80	Brookshier	
Riverton 6 1/2 W	19	68N	42W	4.40	J. Rowen	Rain, 3/4" x 5.50"
Sidney 2 1/2 SW	8	68N	42W	5.50	G. McLaughlan	Rain, "
Sidney 3 WSW	31	69N	42W	5.50	L. Snell	Rain, "
Sidney 4 W	25	69N	43W	6.00	Beedle	Rain, "
Shenandoah	19	69N	39W	5.11	Frank Field	Standard 8" gage (SCS)
Shenandoah 3 E	25	69N	39W	4.50	SCS	Standard 8" gage (SCS)
Shenandoah 7 E	28	69N	38W	4.22	SCS	Standard 8" gage (SCS)
Shenandoah	29(NW 1/4)	69N	39W	3.77	SCS	Standard 8" gage
Shenandoah 1 SE	29(SE 1/4)	69N	39W	3.91	SCS	Standard 8" gage
Clarinda 3 W	27	69N	37W	4.00	H. W. Borland	1-gallon can
Clarinda 5 NW	3	69N	37W	4.75	W. Kirchner	Rain, 3/4" x 5.50"
Clarinda 8 WNW	11	69N	38W	5.11	V. Lundgren	Rain, "
Shenandoah 7 NE	5	69N	38W	6.75	E. Johnson	5-gallon paint pail
Essex 3 E	20	70N	38W	4.75	Fred Olsen	Rain, 3/4" x 5.50"
Essex 3 N	15	70N	39W	5.00	Edgar R. Anderson	Rain, "
Shenandoah 2 SE	34	69N	39W	4.90	J. Myers	Rain, "
Shenandoah 5 SSE	20	68N	39W	4.15	A. R. Rodgers	Rain, "
Shenandoah 7 SSE	4	67N	39W	4.00	F. Eitzen	Rain, "
Northboro 1 1/2 W	21	67N	39W	2.90	L. Anderson	Rain, "
Coin 2 SW	12	67N	39W	3.75	E. Bearre	Rain, "
Coin 2 NW	25	68N	39W	3.70	F. Goodman	Rain, "
Coin 1 1/2 N	20	68N	38W	4.00	Mrs. H. Muller	Rain, "
Coin 3 N	8	68N	38W	3.50	C. D. Cutter	Standard 8" gage
Shenandoah 5 ESE	11	68N	39W	5.50	M. Lord	Rain, 3/4" x 5.50
Council Bluffs 5 SE	20	74N	43W	5.00	Kizzier	Straight-sided grease can
Council Bluffs 7 SE	32	74N	43W	5.00	E. Christiansen	Rain, 3/4" x 5.50"
Council Bluffs 5 E	25	75N	43W	4.00	J. Davis, Jr.	Straight-sided 5-gallon can
Council Bluffs 7 E	20	75N	42W	4.00	E. Cleveland	Straight-sided cattle feed trough

See reference notes following Station Index.

SUPPLEMENTAL PRECIPITATION DATA
For the Storm of May 8, 1950

IOWA
MAY 1950

Continued

Location	Section	Township	Range	Amount	Reported by	Type of Gage
Council Bluffs 12 E	13	75N	42W	3.00	C. Hansen	Rain, 3/4" x 5.50"
Oakland 8 WSW	21	75N	41W	2.50	F. Haines	Rain, "
Oakland 6 WSW	13	75N	41W	2.71	B. Hunt	Rain, "
Oakland 3 SW	21	75N	40W	2.25	R. Arrick	Rain, "
Carson	3	74N	40W	2.50	I. Forrestol	Rain, "
Carson 3 W	6	74N	40W	2.90	Hotze	Rain, "
Macedonia 4 W	24	74N	41W	3.10	G. Forrestal	Rain, "
Macedonia 6 W	22	74N	41W	3.00	A. Schoening	Rain, "
Treynor	7	74N	41W	2.10	Holst	Rain, "
Treynor 2 1/2 W	10	74N	42W	2.50	H. Trede	Rain, "
Council Bluffs 6 ESE	12	74N	43W	4.00	T. Bosch	Two 5-gallon marble buckets
Council Bluffs 8 SE	19	74N	42W	3.50	H. Boehm	Straight-sided can
Council Bluffs 4 NE	15	75N	43W	2.50	C. C. Nelson	Rain, 3/4" x 5.50"
Underwood	16	76N	42W	2.90	L. C. Bondo	Rain, "
Minden	15	77N	41W	4.00	Minden Oil Co.	Rain, "
Portsmouth 1 E	15	79N	40W	1.50	Douglas Linden	Rain, "
Walnut 2 S	21	77N	38W	2.40	E. T. Holst	Rain, "
Walnut 5 SE	2	76N	38W	2.00	Charles Huchs	Rain, "
Hancock 4 E	13	76N	39W	4.00	Ernest Wiese	Rain, "
Hancock 1 W	12	76N	40W	1.50	H. F. Schnackel	Rain, "
Minden 2 SSE	26	77N	41W	2.50	Frank Scutt	Rain, "
Minden 6 SW	8	76N	41W	3.00	Francis Minahan	Rain, "
Oakland 7 WNW	35	76N	41W	2.00	E. H. Bentley	Rain, "
Oakland 1 NW	2	75N	40W	2.00	Frank G. Harris	Rain, 3/4" x 5.50"
Oakland 3 E	9	75N	39W	3.00	O. E. Timberman	Rain, "
Oakland 8 E	9	75N	38W	2.10	Herschel Zimmerman	Rain, "
Malvern 2 NW	13	72N	42W	4.50	H. Ferguson	Rain, "
Malvern 2 NE	22	72N	41W	4.40	M. J. Bruce	Rain, "
Emerson 1 W	27	72N	40W	5.00	W. H. Douglas	Rain, "
Emerson 3 SW	4	71N	40W	4.50	Gilmore	Rain, "
Emerson 7 S	36	71N	40W	3.00	C. Liston	Rain, "
Glenwood 7 NW	17	73N	43W	3.50	L. Kullborn	Rain, "
Glenwood 4 NW	29	73N	43W	5.60	C. A. Godsey	Straight-sided grease can
Glenwood 3 1/2 NW	32	73N	43W	5.25	H. E. Stanford	Coffee Can
Malvern 4 SSW	24	71N	42W	4.50	C. Harper	Straight-sided hog pan, 18" diam.
Malvern 2 1/2 S	7	71N	42W	4.00	E. Lamm	Straight-sided can
Malvern 2 SE	3	71N	41W	4.00	C. H. Summers	Rain, 3/4" x 5.50"
Malvern 4 SE	12	71N	41W	4.60	C. C. Wilhelm	Rain, "
Emerson 5 SW	16	71N	40W	5.00	Hillyard	Straight-sided grease can
Malvern 4 SE	15	71N	41W	5.00	L. Budd	Straight-sided grease can
Malvern	31	72N	41W	4.74	Iowa Power & Light Co.	Rain, 3/4" x 5.50"
Pacific Junction	28	71N	43W	6.25	A. B. Hubbell	Rain, "
Glenwood 7 N	12	73N	42W	3.35	Carl Green	Rain, "
Henderson 1 S	15	73N	40W	3.50	Bevis Sowers	Rain, "
Henderson 5 S	2	72N	40W	4.00	Charles Carson	Rain, "
Hastings 3 1/2 NE	4	72N	40W	3.50	Paul D. Vestal	Rain, "
Hastings 3 NW	2	72N	41W	4.20	Ray Kelley	Rain, "
Malvern 4 N	5	72N	41W	4.50	Ivan Jackson	Straight-sided feed trough
Malvern 5 NNW	1	72N	42W	3.45	Harry Marcel	Rain, 3/4" x 5.50"
Henderson 1 1/2 NE	1	73N	40W	3.00	C. M. Bolton	Rain, "

The above data were compiled from field notes furnished by the Omaha District Office of the Corps of Engineers. Figures and letters shown after the station name indicate the approximate airline distance and direction from an established community or post office. Specific locations are shown by section, township, and range. The 5.50" rain gage is a glass tube approximately 3/4" in diameter and 5.50" deep with direct reading scale, distributed by industrial concerns.

Additional supplemental precipitation data for this storm will appear in the May 1950 issue of Climatological Data for Kansas and Nebraska.

HOURLY PRECIPITATION

Table 4

IOWA
MAY 1950

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
	-1st-																									
BEAVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.04
BELLEVUE L/D 12	-	-	-	.01	.02	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
HARTLEY 3S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
OASIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
SIoux CITY WB APT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
SPENCER 1N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
	-2d-																									
SIoux CITY WB APT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01
	-3d-																									
AMES 3 SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.18	.84	1.02	
ANKENY 2SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.02	
ATLANTIC AP CAA	-	-	-	-	-	-	-	-	.01	.02	.02	.01	.01	-	-	-	-	-	-	-	-	-	-	-	.07	
CHARLES CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.02	
COON RAPIDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.09	.19	.33	.02	.83	
COUNCIL BLUFFS 6 NE	-	-	-	-	-	-	-	-	-	.03	.01	-	-	-	-	.01	-	-	-	-	-	-	-	.05	.05	
DAKOTA CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.02	
DERBY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05	
DES MOINES WB APT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	
GREENFIELD	-	-	-	-	-	-	-	-	-	.01	.01	-	-	-	-	.01	.01	-	-	-	-	-	-	.03	.03	
HINTON 5WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	.03	.02	.01	-	-	-	-	-	.07	.07	
IOWA FALLS 1N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.16	.25	
LAMONI AP CAA 4WNW	-	-	-	-	-	-	-	-	.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.05	
MASON CITY AP CAA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	
NORWICH 2E SCS FARM	-	-	-	-	-	-	-	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	
ST ANSGAR 2S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	
SAINT CHARLES	-	-	-	-	-	-	-	-	-	-	-	.04	-	-	-	-	-	-	-	-	-	-	-	-	.04	
SIoux CENTER	-	-	-	-	-	-	-	-	-	-	-	-	.04	-	-	-	-	-	-	.03	.01	-	-	.02	.07	
TABOR 6NW	-	-	-	-	-	-	-	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	.08	
WEBSTER CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.07	.07	
	-4th-																									
AMES 3SW	-	-	-	-	.01	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.02	.69		
ANKENY 2SW	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.07	.07	.01	.18		
ATLANTIC AP CAA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	.01	.03	.05		
BELLEVUE L/D 12	-	-	.13	.07	.04	.02	-	-	-	-	-	-	-	-	-	.16	-	-	-	-	-	-	-	.42		
CASCADE	-	-	-	.27	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.28		
CHARLES CITY	.10	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05	.16		
CHEROKEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.12	-	.12		
COON RAPIDS	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.02	.03	.60	.10	-	.77		
COUNCIL BLUFFS 6 NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.13	.07	.18	.27	-	.65		
DAKOTA CITY	-	-	.01	-	-	-	-	-	-	-	.01	.01	.01	-	-	-	-	-	-	-	-	-	1.60	1.64		
DAVENPORT WB CITY	-	-	-	.01	.31	.32	.08	-	-	-	.06	.01	.24	.31	-	-	-	-	-	-	-	-	-	1.33		
DES MOINES WB APT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03	.16	.05	.72	-	.98		
DES MOINES WB CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.18	.08	.47	.73	-	.73		
DEXTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.08	.01	.03	-	.10		
DUBUQUE WB CITY	-	-	.20	.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.29		
GREENFIELD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.11	.10	.01	-	.23		
GRINNELL	.17	.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.12	.01	.02	-	-	.70		
HAMBURG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.01	.19	-	-	-	.20		
HINTON 5WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.45	-	.45		
IDA GROVE 4S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.18	-	-	-	-	.18		
IOWA CITY AP CAA	-	-	-	-	-	-	.84	-	-	-	-	-	.03	-	-	-	-	-	-	-	-	-	-	.03		
IOWA C RALSTON CRK1	-	-	.02	.58	-	-	-	-	-	.01	.01	.01	.01	.01	-	-	-	-	-	-	-	-	-	.65		
IOWA C RALSTON CRK2	-	-	.10	.55	-	-	-	-	-	-	-	-	.02	-	-	-	-	-	-	-	-	-	-	.68		
IOWA C RALSTON CRK3	-	-	.09	.47	-	-	-	-	-	.01	.01	.01	.01	.01	-	-	-	-	-	-	-	-	-	.59		
IOWA C RALSTON CRK4	-	-	.01	.20	.38	-	-	-	-	-	.01	.01	.01	.01	-	-	-	-	-	-	-	-	-	.62		
IOWA C RALSTON CRK5	-	-	.01	.66	-	-	-	-	-	-	.01	.01	.01	.01	-	-	-	-	-	-	-	-	-	.70		
IOWA FALLS 1N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05	.05	1.39	-	1.49		
KNOXVILLE 2W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.10	-	-	-	-	.10		
LARRABEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03		
LENOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03	-	-	-	-	.03		
MARION 4NE	-	.05	.43	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.50		
MARSHALLTOWN NO 2	-	.65	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.41	.67	.03	-	1.78		
MASON CITY AP CAA	.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05		
MISSOURI VALLEY	-	-	-	-	-	-	-	-	-	.02	.01	.01	.01	-	-	-	-	-	-	-	-	-	-	.11		
MONONA	.23	.54	.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.92		
MORSE	-	-	.14	.58	.01	-	-	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.75		
MORSE 1NE	-	-	.39	.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.77		
MORSE 4SSW	-	-	.14	.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.74		
MOUNT AYR 2N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.16	.02	.04	-	-	-	.22		
MUSCATINE NO 1	-	-	-	.46	.11	.01	.02	-	-	-	-	.02	.01	-	-	-	-	-	-	-	-	-	-	.83		
RINGSTED	-	-	-	-	-	-	-	-	-	-	-	.01	.02	.01	1.40	.02	.26	.03	-	-	-	-	-	1.75		
ROCKWELL CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.81	.14	.01	-	-	.96		
SAINT CHARLES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.50	.01	.09	.12	.48	-	1.20		
SHEFFIELD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.05	.05	-	-	.10		
SHELL ROCK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.03	.03	-	-	.06		
SIoux CENTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.42	.46	.08	-	-	.96		
SIoux CITY WB APT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.16	.06	-	-	-	.22		
SPILLVILLE	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.08		
STRAWBERRY POINT	-	.51	.04	-	-	-																				

HOURLY PRECIPITATION

IOWA
MAY 1950

Table 4--Continued

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
LENOX		.01				.36					.08														.37	
MARSHALLTOWN NO 2			.01																						.09	
MASON CITY AP CAA	6	.15													.03										.40	
MISSOURI VALLEY			.13	.25	.01	.01																			.20	
MONONA		.16	.04																						.42	
MOUNT AYR 2N									.02	.38	.02														.48	
MOVILLE				.35	.13										.03										.03	
MUSCATINE NO 1				.02	.01	.02	.04																		.09	
NORWICH 2E SCS FARM																									.50	
OASIS																									.47	
REMSEN		.01	.01	.26	.17	.04	.02																		.27	
ROCKWELL CITY		.01	.01	.01	.34	.02	.08								.27										.22	
ST ANSGAR 2S																									1.16	
SHEFFIELD		.15		.07																					.40	
SHELL ROCK		.12	.07	.92								.05													.54	
SIoux CENTER				.13	.19	.08																			.82	
SIoux CITY WB APT			.01	.28	.15	.02				.05					.01			.01	.01						1.26	
SOLDIER				.76	.01	.01	.01	.03																	.05	
SPILLVILLE		.01	.73	.46	.06								.05												.08	
STRAWBERRY POINT																									.07	
TABOR 6NW		.01		.01		.07					.04	.02													.19	
TRAEER			.03	.01	.01	.14																			.40	
WALLIN 2WNW		.02							.36	.02															.10	
WEBSTER CITY												.09	.01												.33	
WHEATLAND				.27	.05	.01																			.03	
WOODBINE 5SE																									.05	
-6th-																										
BEAVER																						.02			.01	
COUNCIL BLUFFS 6 NE												.01	.01	.02	.01										.03	
LARRABEE																									.05	
-7th-																										
WEBSTER CITY										.03	.09	.28	.17	.12	.81										1.30	
-8th-																										
AMES 3SW						.01	.03	.01	.01	.14	.26	.14	.14								.02	.08	.15	.27	.21	1.47
ANKENY 2SW					.16	.06	.11	.09	.01	.18	.25	.21	.02								.02	.01	.22	.13	.17	1.64
ATLANTIC AP CAA	//			.07	.03	.01	.01	.07	.07												.02	.27	.29	.15	.18	1.31
BEAVER								.01	.01	.16	.21	.16	.28	.02							.02	.21	.51	.28	.25	2.12
BELLEVUE L/D 12															.05	.04	.05	.05								.05
CASCADE																										.14
CANTERVILLE				.01		.01	.01	.02	.01														.07	.06	.09	.40
CHARLES CITY										.01	.01	.10	.10	.24	.03	.15							.06	.09	.40	1.26
CHEROKEE					.04	.18	.22	.23	.14	.28	.03	.01	.01	.01		.01					.12	.28	.54	.23	.21	1.46
COON RAPIDS				.02				.01	.16	.08	.11	.20									.94	.15	.05	.02	.03	.01
COUNCIL BLUFFS 6 NE		.01	.03					.01		.47	.05				.01	.01				.03	.94	.15	.05	.02	.03	1.82
DAKOTA CITY								.05	.05	.16	.17	.42	.04	.07	.01					.02	.01	.05	.37	.23	.14	.15
DERBY			.05	.04	.01	.27	.03	.01	.01	.01	.01	.42											.30	.10	.14	1.94
DES MOINES WB APT		.04	.04	.07	.05	.15	.12	.01	.02	.06	.19				.04					.01			.36	.09	.14	1.47
DES MOINES WB CITY				.12	.04	.19	.14	.01	.01	.05	.21											.03	.18	.18	.19	1.35
DEKTER			.09	.01	.01	.13	.04	.02	.01	.19	.32	.13			.09	.07	.03						.18	.18	.19	.19
DUBUQUE WB CITY																							.01	.01	.15	1.35
FOREST CITY									.01	.05	.13	.17	.35	.01		.02							.19	.24	.26	2.23
GREENFIELD		.04	.14	.01	.12	.04	.07	.36	.04	.01	.02	.16	.02	.05						.01		.40	.04	.07	.78	1.80
GRINNELL																									.26	1.96
HAMBURG		.01	.09	.10		.06	.07	.06	.01	.01	.01													.32	.22	.79
HINTON 5WNW				.06	.09	.05	.05	.18	.28	.06	.01	.02	.01	.01	.01						.48	.04	.02	.01	.01	1.78
HORNICK				.01	.06	.20	.28	.18	.20	.27	.38	.06									.02	.02	.01	.14	.04	.01
IDA GROVE 4S																										.07
IOWA CITY AP CAA	6												.01	.01												.07
IOWA C RALSTON CRK1													.02	.01												.07
IOWA C RALSTON CRK2													.01	.02												.08
IOWA C RALSTON CRK3													.02	.02												.10
IOWA C RALSTON CRK4													.01	.04												.08
IOWA C RALSTON CRK5									.03	.01	.04	.22	.11	.23	.18	.07					.04	.16	.17	.79	.21	2.26
IOWA FALLS 1N									.01	.01	.04	.22	.11	.23	.18	.07					.04	.16	.17	.79	.21	1.62
KNOXVILLE 2W		.01	.03	.14	.08	.06	.27	.07	.01																.68	.88
LAMONI AP CAA 4WNW		.01	.05		.17		.03																		.02	.03
LARRABEE					.19	.16	.18	.17	.22	.05	.01	.06											.08	.05	1.59	.99
LENOX					.29	.02		.02	.03		.01	.01	.02	.01												.89
MARION 4NE																										1.82
MARSHALLTOWN NO 2							.06	.08	.06	.01	.01	.18	.17	.75	.02						.01		.07	.08	.18	.18
MASON CITY AP CAA	6																									1.01
MISSOURI VALLEY						.04	.06	.01	.10	.35															.01	.84
MONONA										.01															.14	.05
MORSE										.01	.05														.11	.06
MORSE 1NE																									.01	.06
MORSE 4SSW																									.05	.49
MOUNT AYR 2N		.06	.02	.32	.22				.02	.01			.01	.01									.10	.11	.01	1.58
MOVILLE			.06		.12	.23	.33	.16	.16	.16															.01	.01
NORTH ENGLISH																							.01	.21	.74	.88
NORWICH 2E SCS FARM				.03	.18	.01	.01	.01	.01	.12															.88	1.83
OTTUMWA AP CAA	6																						.02	.19	.19	.09
REMSEN																										

HOURLY PRECIPITATION

IOWA
MAY 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
IOWA C RALSTON CRK1		.04	.01	.02																					.07		
IOWA C RALSTON CRK2			.02	.03	.01	.02																			.08		
IOWA C RALSTON CRK3	.01	.01	.03	.02	.01																				.08		
IOWA C RALSTON CRK4		.01	.01	.04	.02																				.08		
IOWA C RALSTON CRK5			.04	.03	.01																				.01		
MARSHALLTOWN NO 2	.01																								.03		
ROSS		.01	.02																						.04		
ROSS 1NE		.01	.03																						.08		
ROSS 4SSW	.02	.02	.02	.02																					.05		
OASIS		.02	.01	.04																					.02		
SAINTE CHARLES																									.01		
WASHINGTON																											
WOODBINE SSE	.01																										
-14th-																											
COUNCIL BLUFFS 6 NE																.01	.04									.05	
-15th-																											
ALBERTON	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
CHEROKEE																										.05	
HINTON 5NW																										.06	
HORNICK																										.11	
IDA GROVE 4S																										.01	
LARRABEE																										.03	
NOVILLE																										.06	
REMSEN																										.06	
SIoux CENTER																										.06	
SIoux CITY WB APT																										.07	
SOLDIER																										.15	
SPENCER IN																										.06	
-16th-																											
AMES 3SW				.04	.01		.01	.01	.02	.03		.07	.01													.20	
AMEX 2SW										.01	.01	.05														.06	
ATLANTIC AP CAA	//																									.05	
BEAVER				.01	.06	.01						.03	.03	.01	.01											.16	
BELLEVUE L/D 12	//																									.16	
BURLINGTON WB APT	//																									.05	
CASCADE																										.20	
CENTERVILLE																										.28	
CHARLES CITY																										.58	
CHEROKEE	.01	.07	.04	.04			.06	.19	.26	.03	.01															.71	
COOK RAPIDS		.01	.03	.01	.01			.03	.01																	.10	
LAKOTA CITY				.06	.08	.08		.02	.06	.02		.10	.09	.03												.54	
DAVENPORT WB CITY																										.11	
DESBY																										.32	
DES MOINES WB APT								.02				.01	.01													.04	
DES MOINES WB CITY								.02				.03														.05	
DEKATER												.08	.01	.01												.10	
DUBUQUE WB CITY																										.20	
FOREST CITY																										.55	
GREENFIELD				.01	.01		.05	.14	.07	.05	.13	.10													.17		
GRINWELL																										.04	
HAMBURG				.02	.01	.01																				.04	
HINTON 5NW	.08	.07	.03									.14	.32	.08												.17	
HORNICK	.08	.01			.08																					.24	
IDA GROVE 4S	.02	.03	.10	.02		.05	.02																				
IOWA CITY AP CAA	6																									.10	
IOWA C RALSTON CRK1																										.08	
IOWA C RALSTON CRK2																										.05	
IOWA C RALSTON CRK3																										.08	
IOWA C RALSTON CRK4																										.10	
IOWA C RALSTON CRK5																										.38	
IOWA FALLS IN				.03	.04	.05	.07	.06	.01	.01	.01	.01	.04	.04	.01											.13	
KOKUK WBO												.01	.06	.04												.04	
KNOXVILLE 2W																										.57	
LAMONI AP CAA 4NW												.07	.01													.08	
LARRABEE	.02	.05	.06	.04			.05	.01	.01	.01																.05	
LENOX																										.17	
MARION																											
MARSHALLTOWN NO 2								.02	*	*	*	*	*	*	.11	.01										.04	
MASON CITY AP CAA	6							.02	*	*	*	*	*	*	.47	*	*	*	*	*	*	*	*	*	*	.08	
MISSOURI VALLEY			.03	.01	.01		.01		.02																	.08	
MONONA																										.08	
MORSE																										.06	
MORSE 1NE																										.09	
MORSE 4SSW																										.25	
MOUNT AYE 2W																										.05	
MOUNT PLEASANT																										.28	
NOVILLE	.07	.06	.01	.02	.01						.08	.01	.01	.01												.11	
MUSCATINE NO 1																										.03	
NORTH ENGLISH																										.09	
NORWICH 2E SCS FARM							.04	.05																		.07	
OASIS																										.57	
OTTUMWA AP CAA	6																									.49	
REMSEN	.07	.08	.03					.03	.05	.18	.16				.07	.18	.05	.01	.01	.01						.26	
RINGSTED																										.44	
ROCKWELL CITY		.01	.11	.04											.01	.01										.17	
ST ANSGAR 2S															.02	.08	.11	.11	.10	.02						.50	
SAINTE CHARLES															.02	.05	.10									.17	
SHEFFIELD				.04		.01	.05	.03	.04	.03	.08	.12	.07	.03	.05	.02	.04	.08	.12	.05						.45	
SHELL ROCK															.02	.06	.01	.05	.02	.04						.29	
SIoux CENTER	.01	.06	.04												.10	.07	.01									.15	
SIoux CITY WB APT	.06						.01	.02	.02	.06																.10	
SOLDIER	.02	.03					.01	.02	.02	.06																	
SPENCER IN	6	.03	*	*	*	*	*	*	.13	*	*	*	*	*	*	*	.30	.06	.14	.02						.22	
SPILLVILLE																											

HOURLY PRECIPITATION

IOWA
MAY 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
MONOMA	.08	.02	.04	.02																					.16		
MOUNT AYR 2N													.03	.05	.02				.04	.02	.58	.23					.87
MOVILLE														.05	.57	.27	.10								.10		
MORVICH 2E SCS FARM													.11	.12	.04	.03	.06		.02	.01			.01	.01	.40		
REMSEN																			.05	.02			.12	.27	.24		
RINGSTED													.01	.02							.13	.07	.01	.03	.25		
ROCKWELL CITY																					.07	.53	.19	.12	.91		
ST ANSGAR 2S																	.17	.08		.05	.01	.07	.01		.39		
SAINT CHARLES																	.01	.01	.01	.11	.04				.20		
SHEFFIELD														.01	.01										.34		
SHELL ROCK													.08												.31		
SIoux CENTER	*	*	*	*	*	*	*	*	*	*	*	*		.04	.03	.04	.07	.08		.04	.04	.01	.04	.01	.27		
SIoux CITY WB APT														.02				.08	.07	.05	.04				.05		
SOLDIER																				*	*	*	*	*	.48		
SPENCER 1N																.05		.25	.15	.05	.01				.01		
SPILLVILLE														.02							.01				.48		
TABOR 6NW																.04	.02	.24	.18						.02		
TRAEER																									.57		
WALLIN 2WNW																					.04	.03	.28	.22	.40		
WASHINGTON	.01	.01																		*	*	*	*	*	.40		
WEBSTER CITY																											
WOODBINE 5SE																											
-21st-																											
AMES 3SW	.08	.02		.01			.01	.01				.01	.01	.01											.16		
ANKENY 2SW	.12	.02	.01	.01								.01	.06	.01	.01										.27		
BEAVER	.16	.01			.01								.06	.12	.01				.01	.07	.03				.24		
BELLEVUE L/D 12							.07	.02	.08	.04	.09	.05	.14	.01		.17			.08	.04	.02	.02	.03		.52		
BURLINGTON WB APT													.05	.14	.01										.34		
CASCADE													.02	.13	.07	.03									.47		
CENTERVILLE	.07	.13	.02																						.37		
COON RAPIDS	.13	.03	.02							.01	.10	.08													.69		
DAKOTA CITY	.21	.09	.04	.07	.08	.04	.06	.03	.06	.01	.10	.08													.48		
DAVENPORT WB CITY												.10	.05												.06		
DERBY	.01	.01										.01													.14		
DES MOINES WB APT	.04	.01	.01									.01	.01	.04	.01	.01									.09		
DES MOINES WB CITY	.06	.01			.01							.01	.02	.02	.02	.07	.10	.06	.01						.37		
DEXTER	.06											.01	.02	.02	.02	.06	.13	.03							.22		
DUBUQUE WB CITY																									.05		
FOREST CITY	.04	.01										.02	.02	.05	.11	.09	.01	.10	.09	.01					.50		
GREENFIELD												.02	.01	.01											.20		
GRINNELL		.01	.03	.04	.05	.03	.02	.01	.01													.36					
IOWA CITY AP CAA																									1.47		
IOWA C RALSTON CRK1		.01	.01				.02	.05				.24	.03	.01				.02	.94	.16	.01				1.77		
IOWA C RALSTON CRK2					.03	.01				.15	.03						.01	.23	1.27	.04					1.37		
IOWA C RALSTON CRK3						.01	.04	.02	.10	.10	.05														.97		
IOWA C RALSTON CRK4						.06	.01	.02	.14	.02	*	*	*	*	*	*	1.36	.24	.01	.70					1.69		
IOWA C RALSTON CRK5	.01	.02	.03	.02																					.01		
IOWA FALLS 1N	.01																					.01	.01	.01	.34		
KNOXK WBO			.02	.02	.03	.01	.07	.03						.05	.01	.01		.06							.30		
KNOXVILLE 2W	.04	.05												.01	.03	.03	.03	.09	.01						.20		
LAMONI AP CAA 4WNW																									.03		
LARRABEE	.01	.02													.07	.04									.13		
LENOX	.01	.01													.01	.01		.02	.01						.05		
MARION 4NE			.01	.04	.04	.02																			.11		
MARSHALLTOWN NO 2																									.04		
MASON CITY AP CAA	.10	*	*	*	*	*	.02																		.44		
MONOMA												.04	.10	.01				.08	.19	.01	.01				.40		
MORSE												.05	.05					.10	.20						2.41		
MORSE 1NE												.04	.11				.03	1.87	.36						.32		
MORSE 4SSW												.01	.06	.01	.10	.10	.01	.02	.01						.84		
MOUNT AYR 2N																	.05	.37	.19	.02	.02	.14	.05		.63		
MOUNT PLEASANT										.04	.07	.03					.41	.06	.01	.01					1.78		
MUSCATINE NO 1							.12	.26	.16	.23	.21	.09					.14	.21	.29	.02	.03				.31		
NORTH ENGLISH																		.23	.03						.60		
OASIS																	.18	.02							.93		
OTTUMWA AP CAA	.02	.11	.08	.16	.01	.01	.01	.01																	.54		
RINGSTED	.47	.14	.08	.10	.04	.04	.01			.03		.01	.01												.10		
ROCKWELL CITY	.40	.09	.03	.02														.01	.01	.01					.01		
SAINT CHARLES	.01	.02	.01	.01																							
SHEFFIELD	.01																								.04		
SPENCER 1N	.33	*	*	*	*	*	.34					.03	.01									.01	.07		.15		
SPILLVILLE												.02	.03	.02											.15		
STRAWBERRY POINT							.07	.06	.02	.05	.05				.01	.18	.13		.05	.03					.60		
TRAEER						.10												.01	.01	.01					.21		
WASHINGTON																	.02	.02							.45		
WEBSTER CITY	.12	.01										.03	.05	.15				.18	.04								
WHEATLAND																											
-23d-																											
BELLEVUE L/D 12																									.03		
CASCADE																									.18		
CHARLES CITY																									.08		
DUBUQUE WB CITY							.06	.02																	.07		
FOREST CITY									.03	.02	.02	.02													.09		
MASON CITY AP CAA																									.07		
MORSE																									.09		
MORSE 1NE																									.10		
ST ANSGAR 2S									.05	.03	.02														.09		
SHEFFIELD									.01	.08															.18		
SHELL ROCK																											

HOURLY PRECIPITATION

IOWA
MAY 1950

Table 4--Continued

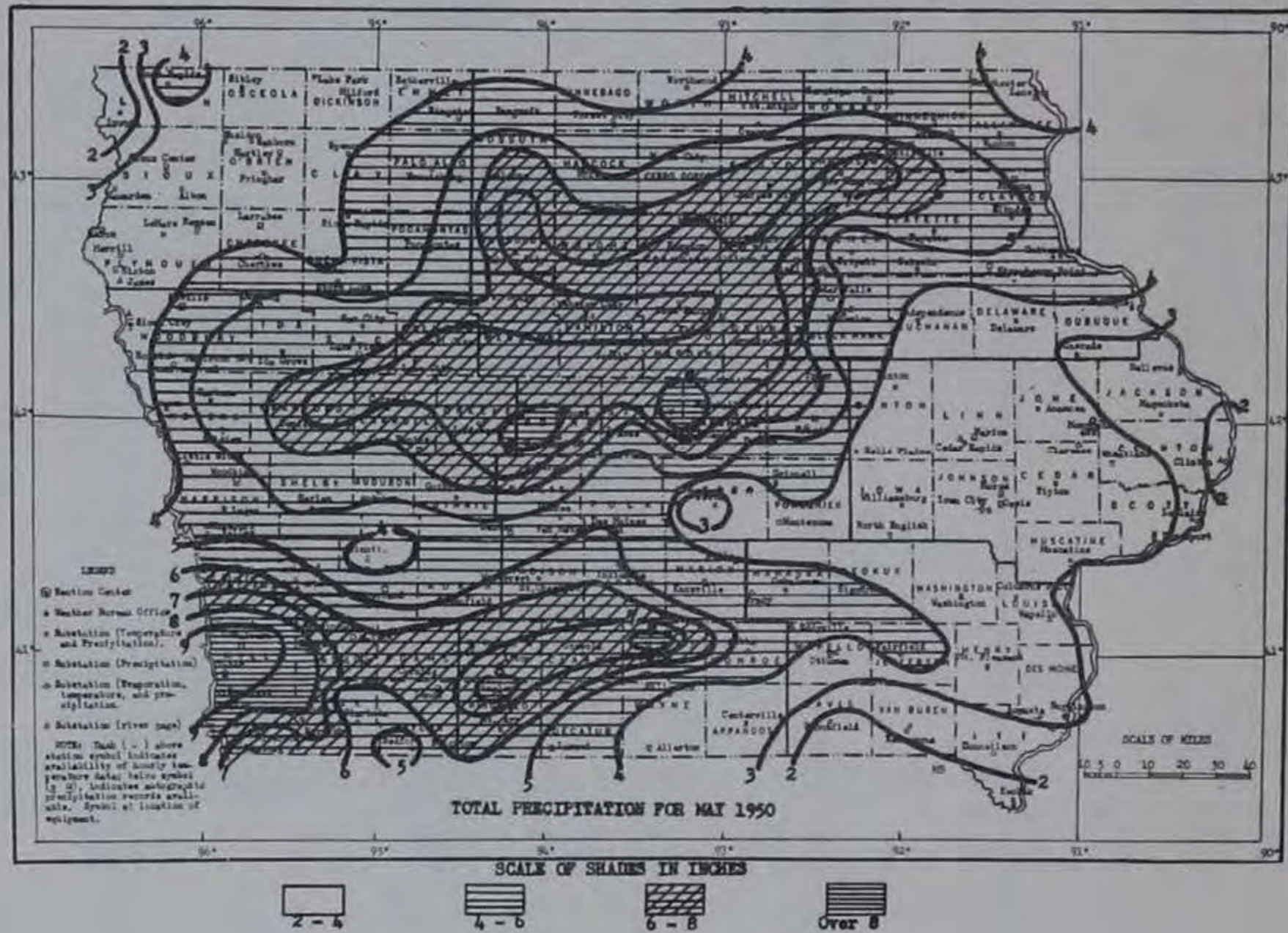
Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
-27th-																									
ALLEERTON							.06	.09	.09	.05	.08	.07	.14	.08	.05	.04									.71
AMES 3SW			.01								.01		.01	.01	.06	.02	.01								.14
ANKENY 2SW													.03	.05	.01										.09
ATLANTIC AP CAA	//					.07				.01			.06	.02	.01	.01	.01	.02							.14
BEAVER										.07	.24	.16	.02	.01	.04	.02	.06		.01						.64
CENTERVILLE													.01	.03		.01									.05
COON RAPIDS									.01	.02	.01							.01	.02	.03	.04				.04
COUNCIL BLUFFS 6 NE																									.10
DAKOTA CITY								.15	.15	.18	.12		.03	.03	.03										.69
DERBY												.06	.02	.03	.02	.01									.14
DES MOINES WB APT												.02	.05	.02	.01	.01									.11
DES MOINES WB CITY												.13	.07	.05	.05	.09	.02								.47
DEXTER		.02								.01	.02	.02	.02												.12
GREENFIELD																	.15	.11	.01						.45
GRINNELL																	.02	.03	.02	.01					.08
IOWA FALLS 1N													.02	.04	.05	.13	.07								.57
KNOXVILLE 2W												.14	.11	.01	.01	.05									.48
LAMONI AP CAA 4WNW												.17	.02	.01											.14
LENOX		.01	.01	.01					.01	.16	.02	.06				.02	.03	.07	.01	.01	*	*	*	*	.61
MARSHALLTOWN NO 2																									.08
MASON CITY AP CAA	6									.16	.10	.12	.07	.06	.03	.04	.03								.33
MOUNT APT 2N																									.12
NORWICH 2E SCS FARM	6					.05				.02	.01			.02	.07	.02	.05	.01	.08	.05	.03				.33
OTTUMWA AP CAA	6										.02	.05	.04									*	*	*	.12
SAINT CHARLES				.02																					.04
SPENCER 1N	6										.01							.02							.62
TRABER		*	*	*	*	*	*	*	*	*	*	.38													.12
WALLIN 2WNW																.01	.01	.03	.04	.03					
WEBSTER CITY																									
-28th-																									
ATLANTIC AP CAA	//															.03									.03
BURLINGTON WB APT	//																					.04			.04
CHEROKEE																						.02			.02
MASON CITY AP CAA	6	.05																							
SPENCER 1N	6	.04																							
-29th-																									
AMES 3SW									.18				.03	.02											.05
ATLANTIC AP CAA	//															.13	.07								.23
BEAVER													.01	.01											.02
HELLEVUE L/D 12															.02							.02			.06
BURLINGTON WB APT	//		.01	.01									.06	.01		.13							.32	.29	.62
CENTERVILLE																			.01						.18
CHARLES CITY													.02				.01	.11	.04						.50
CHEROKEE															.43	.07									1.55
COON RAPIDS									.30	.50	.49	.11	.15												.20
COUNCIL BLUFFS 6 NE																	.04	.11	.05						.05
DAKOTA CITY												.04	.01									.01	.01	.01	.01
DERBY																.05						.01	.01	.01	.01
DEXTER																						.05	.02	.02	.01
DUBUQUE WB CITY																									.05
FOREST CITY														.03	.01			.01							.60
GREENFIELD							.18	.42								.02	.02	.02	.06	.04					.14
HAMBURG										.05	.05	.02	.02	.05	.22	.03	.06	.04							.50
HINTON 5WNW										.01	.08	.01	.02	.03	.01	.01									.07
HORNICK																					*	*	*	*	.07
IDA GROVE 4S																									.07
IOWA CITY AP CAA	6																								.04
IOWA C RALSTON CRK1																									.07
IOWA C RALSTON CRK2																									.04
IOWA C RALSTON CRK3																									.04
IOWA C RALSTON CRK4																									.14
IOWA C RALSTON CRK5															.03	.05	.05	.01							.01
IOWA FALLS 1N													.01												.04
KEOKUK WBO									.04								.06	.01							.07
LAMONI AP CAA 4WNW																*	*	*		.10	*	*	*	*	.64
LARRABEE																									.03
MASON CITY AP CAA	6						.05	.13	.26	.11	.01	.02	.05	.01											.03
MISSOURI VALLEY																									.04
MORSE																							.05		.05
MORSE 1NE																.04	.21	.24	.01						.50
MOUNT PLEASANT																*	*	*	*	*	*	*	*	*	.14
MOVILLE		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.17
NORTH ENGLISH										.02	.05	.09	.01	.24	.05										.29
NORWICH 2E SCS FARM	6																.10	.20	.02	.01					.33
OTTUMWA AP CAA																						.02	.04	.02	.08
REMSEN																									.25
RINGSTED															.04	.11	.10								.71
ROCKWELL CITY																				.08	.03	.06	.12	.41	.01
ST ANSGAR 2S																	.03	.02	.39	.11	.08	.01			.54
SHEFFIELD															.05	.15	.12	.07	.01						.40
SIoux CENTER												.13	.04	.04	.07	.02									.32
SIoux CITY WB APT												.07	.04	.01	.15	.41	.13	.02	.01						.87
SOLDIER							.13	.12	.15	.09	.01				.01	.01									.42
TABOR 6NW																									.12
WASHINGTON																.35	.01	.03	.21						.60
WEBSTER CITY							.01	.10	.64	.03	.03	.03	.03	.08	.01										.93
WOODBINE 5SE																									
-30th-																									
BURLINGTON WB APT	//												.07	.08	.02							.02	.01	.01	.39
CASCADE				.01	.04																		.02	.01	.01
DAVENPORT WB CITY																									.03
DEXTER		.03																				.22	.03		.27
DUBUQUE WB CITY																									

HOURLY PRECIPITATION

Table 4-Continued

IOWA
MAY 1950

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MUSCATINE NO 1																									
OTTUMWA AP CAA																									
ST ANSGAR 2S																									
STRAWBERRY POINT																									
WHEATLAND																									
-31st-																									
HARTLEY 3S																									
IOWA CITY AP CAA																									



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
MAY 1950

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ALBIA	MAX MIN	55 31	68 36	74 55	85 61	79 51	74 49	69 42	63 40	63 47	64 47	72 50	75 52	77 56	81 49	75 53	68 44	80 53	84 55	74 55	78 55	65 50	80 60	86 66	88 60	76 60	67 56	59 49	70 52	74 57	77 61	72 51	73.3 51.6
ALGONA	MAX MIN	55 28	57 38	62 49	82 53	76 32	62 35	55 33	55 38	58 42	65 39	72 46	77 49	76 47	74 51	74 46	65 45	72 46	65 46	64 46	70 42	63 52	79 45	85 60	81 61	64 52	69 50	65 48	66 51	74 55	79 58	72 48	68.8 46.3
ALLISON	MAX MIN	52 28	59 36	65 48	79 58	74 40	66 42	62 42	52 41	60 46	62 42	70 41	81 52	79 50	84 56	72 48	61 47	75 41	70 48	63 51	70 51	65 46	78 47	85 56	82 66	68 55	68 50	66 52	72 54	79 52	78 56	72 48	70.0 48.1
ALTA	MAX MIN	49 26	55 38	59 44	84 49	65 36	63 36	55 32	53 37	58 38	64 36	73 41	73 47	76 45	75 48	65 46	76 48	67 49	67 53	70 43	70 48	82 49	89 61	79 53	56 48	69 48	64 50	66 50	70 55	79 56	72 46	68.3 45.3	
ALTON	MAX MIN	56 24	52 39	64 41	77 45	66 37	64 37	63 33	53 38	55 40	68 35	76 37	74 45	79 42	80 44	76 39	69 51	80 43	80 51	72 45	79 42	76 50	85 54	90 55	93 50	66 48	69 48	69 62	69 51	74 56	75 54	77 47	71.8 44.6
AMES 3SW	MAX MIN	55 27	65 38	64 47	83 60	76 45	68 42	62 38	59 38	60 47	63 42	70 41	76 50	76 52	81 50	73 47	67 49	79 41	74 51	70 54	74 52	64 53	77 46	86 58	82 67	73 55	66 51	61 54	67 53	71 55	79 56	71 49	70.7 48.6
ANAMOSA 1NW	MAX MIN	52 26	60 35	74 47	78 58	77 49	77 47	67 36	66 37	66 49	62 44	70 38	75 50	76 53	79 49	75 47	67 44	73 38	73 47	78 48	73 54	70 52	76 44	79 55	85 65	82 60	67 54	66 50	70 50	76 52	75 61	72 46	72.1 47.9
ATLANTIC 1E	MAX MIN	57 28	69 39	71 52	88 61	80 41	70 39	67 39	62 44	63 43	65 42	71 38	75 50	76 53	81 46	77 44	81 53	82 43	75 53	71 57	70 42	72 50	83 44	88 61	84 65	68 52	63 47	61 53	69 51	71 56	80 49	72 48	73.0 48.2
ATLANTIC AP CAA	MAX MIN	56 28	66 39	68 51	90 62	70 42	69 39	64 40	61 44	61 42	63 40	72 36	74 47	78 51	81 44	74 41	76 50	80 40	76 53	67 45	69 41	69 42	82 60	87 57	84 50	58 48	61 50	59 48	67 51	71 54	76 53	71 49	68.8 46.4
AUDUBON 2S	MAX MIN	54 29	55 38	64 46	87 51	66 40	64 38	61 40	57 44	59 40	61 42	71 42	73 42	75 44	81 52	73 48	75 50	81 46	70 55	68 44	68 48	68 48	78 47	84 61	79 56	60 49	62 45	49 45	65 49	65 55	68 56	77 47	69.8 46.5
BANCROFT	MAX MIN	56 27	55 37	62 48	85 50	80 39	62 40	55 33	54 36	57 40	66 38	73 40	79 50	76 45	73 48	70 44	67 48	66 41	65 45	76 46	66 42	66 52	84 44	90 61	79 52	65 46	71 50	74 46	70 51	76 54	80 60	73 45	70.3 45.8
BEDFORD 1N	MAX MIN	57 31	70 38	75 53	88 68	78 40	70 40	69 43	68 43	68 45	67 43	71 47	75 46	74 53	81 53	77 48	81 52	83 44	77 44	70 55	65 48	68 55	81 49	84 60	86 64	76 54	59 47	58 51	67 49	71 54	72 53	72 49	72.8 49.5
BELLE PLAINE	MAX MIN	56 27	63 36	66 51	80 59	76 48	72 45	66 38	57 39	63 50	65 42	73 42	77 47	79 55	84 49	74 47	67 48	77 41	75 45	68 59	74 55	71 46	80 48	85 57	90 67	77 60	68 56	65 54	72 53	77 61	78 54	74 47	72.5 49.5
BELLEVUE L AND D 12	MAX MIN	53 30	60 33	66 46	74 45	77 51	70 48	62 39	56 38	65 49	63 45	71 38	77 46	77 53	81 51	73 52	64 44	73 37	70 48	73 55	73 49	69 54	75 50	75 48	88 64	72 60	67 55	66 48	70 51	76 50	75 60	73 50	77.7 48.0
BLOOMFIELD 2H	MAX MIN	53 30	68 37	78 60	86 63	73 59	71 44	65 49	67 44	72 45	78 53	81 58	83 52	75 55	67 50	80 51	84 44	74 44	72 56	72 44	62 49	81 54	88 61	84 66	86 52	66 51	67 53	61 52	67 53	70 57	78 59	72 51	71.0 50.1
BOONE	MAX MIN	55 31	65 39	64 51	86 60	77 44	68 44	62 38	56 43	60 45	63 45	73 44	79 53	83 54	74 52	65 52	80 46	75 52	72 46	72 55	62 49	81 54	88 61	84 66	86 52	67 51	57 53	60 52	66 52	72 57	77 59	73 51	66.6 50.1
BRITT	MAX MIN	50 25	56 35	60 42	78 56	78 35	59 35	59 37	55 35	54 32	68 34	68 35	74 46	74 41	68 44	65 41	69 45	62 41	59 46	68 40	68 51	68 46	77 45	84 58	86 57	67 49	57 46	60 43	66 49	72 52	77 56	73 41	68.6 43.2
BURLINGTON WB AP	MAX MIN	53 34	68 40	78 55	82 64	77 50	76 49	69 45	62 41	70 49	66 46	68 50	75 47	79 51	80 54	75 53	69 49	77 47	82 53	66 57	76 53	65 53	75 57	87 62	88 63	75 57	66 54	63 54	73 57	75 61	72 50	74.9 51.9	
CARROLL	MAX MIN	57 29	64 38	63 46	86 57	80 40	67 40	62 35	60 40	61 40	64 40	73 42	75 50	77 49	81 45	77 50	79 48	83 48	75 55	70 43	78 55	69 47	81 53	90 61	85 61	74 49	70 53	67 47	68 56	72 49	82.7 47.7		
CASCADE	MAX MIN	53 30	62 33	72 47	77 59	75 50	69 47	62 36	61 38	62 49	62 46	71 39	76 48	77 53	81 49	75 46	65 45	75 39	72 49	74 50	75 57	64 53	77 47	78 51	86 64	73 61	68 56	69 50	71 53	80 61	77 49	71.3 48.5	
CASTANA 4E	MAX MIN	53 30	59 39	61 46	81 52	66 38	67 41	57 34	61 41	62 38	63 41	71 44	67 51	76 49	80 53	74 49	73 51	79 49	76 50	75 45	75 48	70 49	81 61	89 60	84 47	60 48	65 48	62 52	59 49	66 52	70 54	72.4 47.1	
CEDAR RAPIDS NO 1	MAX MIN	55 27	62 37	69 52	79 59	76 50	72 48	65 39	57 38	63 51	63 46	73 41	79 49	79 55	83 51	74 46	66 48	77 40	74 50	67 49	75 57	68 47	79 54	83 66	89 61	80 55	63 52	59 53	72 53	74 62	78 82	75 47	75.1 49.6
CENTERVILLE	MAX MIN	56 29	69 39	79 54	86 66	83 51	75 45	73 44	68 44	67 50	66 45	74 48	75 49	77 51	80 50	77 49	77 53	81 45	83 55	77 57	77 53	73 47	80 55	86 68	87 85	80 60	64 56	62 50	69 52	74 57	77 61	72 50	73.6 51.7
CHARITON 3E	MAX MIN	56 26	67 38	75 52	85 64	82 49	74 42	69 46	67 41	64 49	65 41	71 45	75 47	77 49	81 46	78 45	69 49	80 42	81 57	76 53	75 47	65 54	79 47	85 59	87 63	80 53	64 50	62 51	69 55	74 60	77 55	72.9 49.3	
CHARLES CITY	MAX MIN	51 30	58 39	67 50	77 59	73 40	63 44	58 36	51 38	57 46	62 41	73 40	79 51	78 50	79 52	72 49	57 48	68 49	68 49	71 51	72 49	69 53	65 47	83 60	89 61	79 55	54 49	71 51	66 49	68 54	70 53	71.8 48.1	
CHEROKEE	MAX MIN	55 25	54 40	59 43	84 48	65 33	63 39	53 31	51 37	59 37	64 35	72 40	72 48	73 45	70 44	67 45	84 46	86 54	78 44	74 45	72 56	65 43	72 51	83 48	88 62	87 54	75 48	69 49	68 51	80 50	79 57	75 45	68.5 45.3
CLARINDA	MAX MIN	64 31	70 39	80 54	90 65	80 32	75 41	75 43	68 45	75 44	65 39	76 46	77 56	80 48	82 46	76 46	84 54	86 44	78 45	74 56	72 43	72 51	83 44	88 60	87 60	75 52	69 50	68 55	75 51	80 58	79 58	75 52	76.5 49.0
CLARION	MAX MIN	52 28	60 38	63 46	82 57	76 39	64 34	61 34	55 38	57 33	62 39	72 38	78 47	77 45	78 46	72 42	59 46	74 49	68 47	65 48	72 44	82 54	86 61	79 60	82 61	65 52	69 48	64 50	71 51	75 55	85 61	75.8 50.8	
CLINTON NO 1	MAX MIN	58 31	68 37	73 49	80 60	78 55	75 44	64 39	60 54	67 46	66 48	74 50	77 58	81 51	82 52	82 44	67 44	76 49	76 47	79 49	80 58	56 47	78 53	82 66	90 64	82 55	67 49	71 53	75 53	85 61	80 52	74.6 50.8	
COLUMBUS JUNCTION	MAX MIN	56 32	66 36	75 53	83 62	89 53	75 48	66 45	63 40	66 50	65 45	72 48	76 47	79 52	81 51	75 49	73 44	78 44	79 52	71 52	77 56	68 53	78 50	87 56	89 58	85 58	66 55					74.5 50.1	
CORNING 1W	MAX MIN	56 31	68 44	75 52	88 65	78 46	71 41	68 50	65 43	65 41	70 43	75 43	77 48	80 52	77 49	79 45	81 58	77 51	79 45	71 55	71 47	69 52	82 46	86 62	84 62	75 52	61 47	59 52	68 50	71 55	79 59	72 49	73.0 49.7
COUNCIL BLUFFS 5NE	MAX MIN	56 28	65 32	65 46	90 60	74 39	71 44	67 41	64 41	64 41	65 41	71 39	75 50	78 51	83 45	75																	

DAILY TEMPERATURES

IOWA
MAY 1950

Table S-Continued

Station	Day of month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
DEKORSON 18	MAX MIN	54 29	61 40	62 45	88 57	75 41	61 39	57 36	57 42	61 40	64 40	73 39	71 52	78 46	83 49	75 44	75 52	82 47	73 52	69 55	70 43	70 50	81 48	88 64	85 59	61 51	64 50	60 53	67 49	67 56	78 56	72 50	70.4 47.8		
DES MOINES WB AP	MAX MIN	56 32	67 39	67 54	86 66	72 48	70 46	66 42	60 41	61 47	64 45	73 45	75 51	76 55	81 55	74 50	84 50	80 45	79 53	72 54	75 54	60 52	80 47	85 61	86 63	63 56	65 55	60 52	68 52	74 58	78 56	72 52	71.3 50.8		
DES MOINES WB CITY	MAX MIN	55 32	66 39	67 52	87 64	74 46	71 47	67 42	61 41	63 47	65 47	71 45	76 52	75 55	81 54	75 52	66 50	82 46	81 55	73 55	75 55	62 49	80 60	86 63	87 63	64 56	66 54	60 53	70 53	75 57	80 58	72 54	72.0 51.3		
DUBUQUE L AND D 11	MAX MIN	50 30	55 37	64 40	71 50	72 48	63 46	58 41	53 36	59 47	56 46	87 42	78 49	71 50	77 53	76 52	62 43	68 42	66 46	69 47	69 54	63 53	72 52	75 54	84 60	67 56	66 54	65 47	65 51	72 53	74 59	69 51	67.0 48.1		
DUBUQUE WB CITY	MAX MIN	52 33	60 39	67 51	78 59	78 48	69 41	56 38	58 48	63 48	61 48	72 44	78 55	78 55	82 53	73 45	55 44	74 50	72 57	75 55	76 54	65 56	78 56	80 64	88 58	73 57	69 49	69 53	68 55	78 61	78 52	72 52	70.8 50.8		
ELEADER	MAX MIN	55 25	60 25	65 46	75 55	73 44	70 41	65 33	58 36	63 40	65 39	75 33	80 44	80 45	77 45	77 44	75 44	76 38	75 46	70 46	70 53	80 44			85 64	72 57	72 51	72 46	64 55	80 47	80 55	75 42	71.5 44.5		
EMMETSBURG	MAX MIN	55 27	55 38	62 46	84 46	75 38	62 38	54 33	49 37	58 41	65 38	73 42	78 50	75 45	72 51	65 46	74 49	67 43	66 47	71 48	64 43	64 51	80 47	88 60	85 61	65 51	67 50						68.3 44.8		
ESTHERVILLE	MAX MIN	56 26	49 37	60 42	84 43	73 37	60 36	50 32	50 35	57 38	74 35	79 42	75 49	73 45	75 50	82 40	88 48	88 43	67 45	72 46	66 38	82 50	90 45	90 60	79 55	59 49	69 49	62 42	67 46	75 50	79 54	72 46	70.6 43.8		
FAIRFIELD	MAX MIN	53 39	67 44	71 51	84 65	76 49	76 43	69 41	67 44	67 47	65 49	71 50	78 53	78 52	81 49	75 48	65 43	78 53	85 54	70 55	77 53	66 53	77 60	88 64	90 64	70 56	65 53	59 53	72 55	76 59	72 50	74 53	73.0 51.4		
FALETTE	MAX MIN	52 26	59 31	71 49	77 58	74 43	65 42	59 34	51 37	58 47	61 43	72 38	78 34	78 49	82 48	73 45	51 45	72 39	70 48	65 50	66 55	63 53	80 43	80 56	84 66	72 58	70 53	67 48	68 52	76 50	79 58	72 46	69.5 46.9		
FOREST CITY	MAX MIN	55 28	55 38	63 47	80 52	73 39	62 39	55 31	49 37	56 42	63 37	72 38	79 48	76 46	73 47	65 44	68 48	64 41	64 45	72 48	60 41	79 53	86 41	78 59	64 60	69 52	67 45	68 51	75 52	78 55	72 47	68.1 45.2			
FORT DODGE	MAX MIN	55 27	62 39	63 46	83 57	79 40	60 35	53 39	59 43	64 41	73 42	77 51	79 50	80 47	74 46	58 49	77 42	73 48	66 50	72 44	86 52	80 45	87 60	84 63	87 51	68 50	63 52	66 51	86 55	71 58	79 50	72 50	70.2 47.2		
GLENWOOD 2E	MAX MIN	58 31	64 41	71 49	90 60	80 42	72 43	68 43	65 45	65 43	66 40	71 49	71 52	78 49	83 45	77 55	79 47	84 60	79 57	71 48	69 52	73 48	84 67	89 64	86 51	68 50	63 55	60 50	67 50	74 58	79 48	73 49	73.5 49.4		
GREENFIELD	MAX MIN	55 29	67 36	69 53	87 52	78 39	68 38	70 42	64 38	62 47	63 41	65 45	77 51	78 55	73 50	80 45	74 51	80 45	76 53	71 50	73 47	67 50	78 47	85 61	85 64	74 48	62 53	61 48	67 50	71 58	78 47	72 48	72.0 48.8		
GRINWELL	MAX MIN	57 26	64 36	66 51	83 60	77 45	70 44	58 39	58 36	62 48	69 42	71 44	76 50	76 52	81 50	74 46	66 49	80 40	78 52	71 52	66 54	79 48	87 57	88 67	79 58	70 54	64 51	69 52	76 54	80 60	74 46	72.6 48.9			
GRUNDY CENTER 4NE	MAX MIN	52 26	61 37	63 46	79 59	74 41	67 42	63 34	52 37	59 47	61 42	72 41	78 47	77 49	82 43	76 45	60 40	76 48	72 48	65 49	69 52	64 54	76 46	83 58	84 64	66 55	69 52	61 52	68 53	74 54	78 57	71 49	69.4 47.4		
GUTHRIE CENTER	MAX MIN	55 29	66 39	62 50	85 59	78 42	68 43	64 39	62 42	60 43	61 44	72 42	75 52	76 53	81 49	75 52	71 47	80 50	72 58	68 48	69 52	67 46	79 61	86 67	83 63	68 53	63 49	67 52	69 49	78 55	70 50	70.6 49.3			
HAMPTON	MAX MIN	52 29	58 38	61 48	78 57	75 40	65 39	60 34	57 38	59 46	62 41	72 43	78 51	77 53	80 45	73 48	63 42	74 48	64 49	65 47	67 55	60 49	77 49	85 59	80 65	69 53	67 50	64 51	68 53	73 55	77 48	70 48	68.7 47.9		
HARLAN	MAX MIN	55 29	62 41	62 48	87 59	77 42	69 41	68 45	60 42	64 44	64 40	72 49	73 51	78 47	83 45	74 54	77 47	83 47	78 56	72 48	67 54	70 44	82 47	89 61	86 64	64 52	63 50	63 55	67 51	70 58	78 50	73 49	71.9 49.1		
IDA GROVE 4S	MAX MIN	55 28	60 47	61 48	85 52	85 38	60 32	55 40	61 39	65 38	73 40	74 48	78 46	82 47	76 43	68 52	82 48	70 51	69 54																
INDEPENDENCE 2W	MAX MIN	51 26	60 38	67 48	78 58	77 45	66 44	64 38	57 47	59 42	61 41	70 49	77 51	77 52	80 45	72 44	68 45	73 48	71 48	67 50	71 55	69 48	77 55	79 65	88 59	70 53	69 52	69 53	70 53	77 53	78 61	74 47	70.5 48.5		
INDIANOLA	MAX MIN	56 31	66 36	67 54	87 63	81 48	73 46	67 47	65 40	64 49	66 44	73 51	75 60	79 54	83 48	75 54	70 49	83 55	83 55	76 55	75 58	64 47	81 60	87 65	89 57	80 55	65 51	68 51	75 52	79 58	75 49	73.8 50.7			
INWOOD 2W	MAX MIN	54 23	51 39	60 37	86 40	61 35	59 28	52 35	51 36	59 36	66 34	76 44	73 49	76 49	73 41	69 51	76 46	73 50	68 54	69 42	74 49	85 51	94 60	84 57	69 45	69 41	69 41	69 45	78 44	71 44	68.4 43.5				
IOWA CITY	MAX MIN	55 29	64 38	71 50	80 59	75 52	65 49	60 42	64 39	63 53	71 47	77 45	78 56	81 52	75 49	69 48	77 42	75 52	69 51	77 57	72 54	77 49	85 56	88 64	80 64	68 57	64 53	72 55	77 56	75 62	72 49	72.5 50.9			
IOWA CITY AP CAA	MAX MIN	55 28	64 36	72 50	81 59	76 49	67 48	61 42	65 39	63 48	71 44	78 47	77 56	82 49	75 48	60 43	79 48	76 53	67 50	78 57	67 54	76 48	87 54	87 65	76 61	70 57	65 53	74 55	79 61	77 47	75 49	72.7 49.9			
IOWA FALLS 1N	MAX MIN	54 27	60 38	62 57	78 57	75 41	66 35	60 37	54 45	59 41	63 39	72 41	78 52	77 49	80 50	74 44	67 47	76 40	65 49	88 48	59 54	80 47	85 58	83 65	67 53	66 50	63 51	66 53	73 55	79 55	71 48	69.6 47.5			
JEFFERSON	MAX MIN	55 28	64 39	63 48	85 59	79 43	69 42	61 39	60 44	61 42	63 42	72 50	76 51	77 51	82 46	75 52	67 44	80 52	74 45	75 46	66 53	73 47	86 60	82 65	74 55	66 50	63 48	62 55	68 48	78 60	70 50	71.3 48.6			
KEOKUK L D 19	MAX MIN	53 37	54 40	68 45	76 56	81 66	76 51	77 51	69 45	69 48	70 54	73 54	75 54	78 59	81 54	73 54	78 58	84 56	68 59	77 49	69 56	78 56	87 68	88 69	76 61	67 55	63 56	74 55	74 62	74 62	74 62	73.4 54.9			
KEOKUK WBO	MAX MIN	55 36	70 43	80 54	85 66	78 53	77 51	70 47	64 44	70 55	68 50	68 53	75 50	78 52	80 55	76 52	76 53	79 58	85 55	64 59	76 56	67 55	80 62	89 67	90 63	74 58	66 53	61 53	73 60	73 62	71 58	73 58	73.9 54.5		
KEOSAUQUA STATE PE	MAX MIN	56 32	70 40	80 56	88 66	80 58	80 46	73 46	69 47	70 55	72 48	80 51	82 50	83 52	77 47	70 47	79 52	86 56	77 55	78 54	72 54	78 55	88 64	90 64	86 57	67 53	62 54	72 58	74 60	74 53	74 53	75.7 52.3			
KNOXVILLE 2W	MAX MIN	56 32	67 39	70 54	86 65	83 48	72 47	69 42	65 39	62 48	63 46	71 49	77 55	78 54	80 48	75 44	82 53	78 55	78 51	78 55	65 48	80 60	87 66	88 66	80 59	69 49	64 51	69 52	76 57	78 61	77 51	74.1 51.0			
LAKE CITY	MAX MIN	55 27	60 38	63 46	85 56	80 38	65 34	59 38	53 40	59 38	63 42	73 51	76 46	80 43	76 49	71 46	79 44	72 49	69 52	73 43	69 52	82 47	90 60	88 59	64 49	68 52	63								

DAILY TEMPERATURES

IOWA
MAY 1950

Table S-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
MARSHALLTOWN	MAX MIN	47 27	55 38	64 43	68 57	84 61	73 42	68 37	64 37	60 39	60 46	63 41	71 52	78 54	77 50	81 48	73 49	57 42	77 50	73 51	69 53	74 54	64 49	78 53	87 57	89 53	64 54	67 53	59 54	69 54	76 59	78 50	69.9 49.0	
MASON CITY 3N	MAX MIN	53 28	56 35	65 45	76 55	73 38	62 38	56 30	50 37	57 44	63 38	71 37	78 47	76 46	74 47	71 42	60 49	71 42	65 46	64 49	68 41	62 53	79 44	85 58	78 62	77 52	68 48	65 44	68 53	74 51	79 57	70 45	68.2 45.2	
MASON CITY AP CAA	MAX MIN	52 28	55 35	63 43	77 54	72 37	63 37	57 30	50 37	56 43	62 38	73 36	78 50	75 47	75 45	70 42	54 48	70 43	64 46	63 46	69 41	80 48	78 44	85 58	78 57	76 53	65 52	68 49	65 44	67 52	76 51	77 48	70 46	67.3 44.3
WILFORD 4NW	MAX MIN	55 25	49 38	62 41	82 43	76 36	60 36	49 30	49 35	58 38	64 33	74 38	78 47	73 44	72 48	74 41	62 49	70 41	65 48	67 49	70 42	68 50	82 46	90 60	88 59	59 48	69 47	65 47	65 47	72 55	78 51	70 44	68.2 43.7	
WILLERTON	MAX MIN	56 30	69 38	76 53	85 63	79 51	74 47	70 41	64 42	64 49	64 44	72 49	75 48	76 52	79 48	74 50	68 50	71 55	73 57	76 57	69 46	80 47	82 51	90 66	88 66	59 52	69 50	65 55	63 52	69 58	72 54	82 61	75 45	74.2 50.4
MISSOURI VALLEY	MAX MIN	59 31	64 41	65 51	89 60	68 41	74 42	70 41	64 46	67 41	68 44	75 44	75 54	81 50	88 50	78 47	81 55	85 52	79 57	73 57	71 46	76 47	81 51	91 66	83 66	66 52	67 50	63 55	69 52	72 58	82 54	75 49	74.2 50.0	
MOUNT ATR 2N	MAX MIN	57 30	69 39	76 54	87 67	76 48	74 43	70 44	65 54	66 45	66 42	70 46	75 47	77 53	80 50	73 48	79 53	81 45	78 56	74 60	72 51	70 50	80 46	85 62	85 61	78 56	60 49	59 51	68 50	71 56	77 59	71 50	73.2 50.2	
MOUNT PLEASANT	MAX MIN	58 30	68 38	77 52	83 63	80 54	76 45	70 45	64 40	63 53	65 44	73 49	77 47	83 51	82 52	76 51	71 48	80 43	87 52	74 53	80 54	73 51	81 50	87 58	90 64	81 64	70 56	64 53	76 53	78 55	75 50	74 55	75.3 51.0	
MUSCATINE NO 1	MAX MIN	58 30	66 36	74 53	81 59	76 55	75 48	66 44	61 41	67 54	66 46	74 47	79 49	81 56	83 52	79 48	69 42	80 53	80 51	70 58	81 53	71 49	81 56	87 66	91 66	79 66	68 55	65 52	77 55	80 61	76 51	77 51	74.8 51.4	
NEW HAMPTON	MAX MIN	51 22	59 28	69 42	76 51	72 44	63 43	58 37	50 37	57 48	61 44	70 33	79 39	77 43	79 41	56 48	71 41	69 44	64 41	66 42	64 46	66 46	64 48	77 50	79 55	81 55	65 50	68 45	68 50	76 54	78 61	75 51	68.1 43.2	
NEWTON	MAX MIN	56 30	66 40	67 52	85 61	79 49	71 46	67 39	61 38	64 52	65 44	73 46	72 50	77 54	82 53	76 47	69 51	84 42	79 54	72 55	75 56	65 55	79 60	87 67	88 67	80 59	70 54	65 55	68 55	74 55	80 61	74 50	73.2 50.9	
NORTHWOOD	MAX MIN	52 27	53 35	63 46	75 50	74 39	60 37	55 30	54 36	55 42	62 36	72 36	79 48	75 45	72 41	67 44	68 48	88 44	85 48	70 48	64 42	78 43	83 44	82 48	82 60	66 51	69 47	67 43	69 52	75 51	78 46	70 48	68.1 44.0	
OAKLAND 2E	MAX MIN	55 28	65 39	68 50	89 61	82 37	70 40	67 41	62 43	63 42	63 40	70 38	75 48	77 53	81 45	75 42	78 53	81 43	76 54	72 57	69 43	70 49	81 46	87 61	87 64	80 51	70 48	65 53	68 50	74 56	80 56	74 48	73.2 47.7	
OELWEIN	MAX MIN	50 28	58 36	68 45	78 59	74 44	66 44	60 36	50 38	59 46	60 43	73 38	80 50																					
ONAWA	MAX MIN	55 29	61 41	62 44	77 53	63 40	69 40	60 35	62 44	63 38	65 39	74 42	69 49	83 42	77 47	77 45	83 50	77 49	71 50	71 53	74 50	74 47	86 50	93 63	85 63	64 46	68 49	65 54	70 52	65 57	78 55	74 49	71.5 47.3	
OSAGE	MAX MIN	51 28	55 36	66 48	76 56	72 40	61 38	55 33	51 37	55 44	61 37	72 44	78 38	75 46	75 46	70 46	63 48	65 40	70 41	64 49	67 45	82 54	75 48	80 59	77 63	67 53	68 51	66 46	69 55	74 51	77 59	70 46	67.3 46.1	
OSCEOLA	MAX MIN	56 31	70 41	75 53	86 65	81 46	75 45	71 41	67 41	64 46	65 44	72 48	77 49	78 49	83 52	75 49	72 52	83 46	82 53	74 57	75 51	70 54	81 49	87 59	88 64	80 60	61 50	60 50	68 50	73 55	78 59	75 50	74.3 50.3	
OSKALOOSA	MAX MIN	57 31	67 38	72 54	87 66	80 52	74 49	68 43	61 40	63 53	64 45	72 46	77 49	81 52	75 50	69 53	80 43	82 53	71 55	77 55	67 56	78 49	87 59	87 67	88 62	77 62	70 57	62 51	69 53	74 57	78 61	76 57	73.6 51.8	
OTTUMWA AP CAA	MAX MIN	56 32	66 37	75 55	86 64	76 51	75 50	69 44	63 41	65 51	64 47	70 52	76 52	76 55	80 55	75 51	65 50	80 45	82 56	70 55	76 56	64 53	78 60	88 69	90 61	76 56	67 61	60 52	67 54	70 57	74 60	75 50	72.9 52.5	
PERRY 2SE	MAX MIN	59 27	65 38	64 45	86 59	77 42	69 43	65 38	61 39	61 44	63 43	73 40	77 47	79 47	81 49	76 44	72 51	81 42	76 51	72 54	72 46	68 52	78 44	85 58	83 67	71 53	66 49	60 51	67 48	70 54	78 57	72 45	71.8 47.5	
POCAHONTAS	MAX MIN	53 27	56 37	62 38	83 50	70 38	62 37	57 32	58 37	58 40	63 38	73 41	75 48	77 46	76 47	60 46	76 48	70 46	65 48	72 49	66 40	72 42	86 46	80 55	89 62	75 51	62 41	69 50	57 54	67 54	72 57	79 45	71 44	68.6 44.7
PRINGHAR	MAX MIN	55 25	54 38	62 42	83 45	78 32	59 36	58 31	51 36	57 37	64 34	74 43	76 47	73 45	74 48	74 46	71 49	74 47	75 48	70 48	70 51	70 44	83 50	88 64	90 48	70 48	69 50	68 50	67 56	72 52	79 45	71 45	68.6 45.1	
RED OAK	MAX MIN	60 31	68 40	78 54	89 62	79 41	72 43	69 42	65 45	65 44	65 39	70 38	75 46	77 55	81 47	75 42	80 54	82 44	72 46	71 57	70 41	72 45	82 61	87 53	83 61	60 53	67 54	68 51	67 51	74 57	74 60	69 47	67.0 48.5	
ROCK RAPIDS	MAX MIN	55 27	49 39	59 39	60 43	63 36	58 37	48 31	50 35	58 38	64 35	75 40	77 45	73 43	72 48	72 40	68 52	73 40	68 50	66 51	68 42	70 51	81 49	88 61	81 52	62 47	69 45	64 46	68 51	71 55	80 48	71 48	70.5 44.1	
ROCKWELL CITY	MAX MIN	54 29	59 38	62 46	85 55	80 40	65 41	58 34	56 38	60 42	63 39	73 45	75 52	78 47	80 52	75 45	67 50	79 46	73 51	66 45	73 51	66 45	78 51	88 62	91 59	80 51	60 50	72 53	64 51	71 57	71 57	79 49	72 47	70.7 47.7
SAC CITY	MAX MIN	56 31	59 41	60 47	86 54	88 39	67 40	59 35	56 39	60 41	64 40	74 40	74 47	80 53	78 49	67 51	80 48	70 51	68 48	74 55	69 45	74 52	85 50	91 62	80 59	60 51	72 50	64 53	71 51	71 57	79 49	72 49	70.7 47.7	
SANBORN	MAX MIN	54 27	49 38	65 41	82 44	83 35	63 36	58 31	52 35	50 36	57 35	63 42	73 45	72 46	73 43	67 49	74 43	68 48	66 51	70 41	70 50	83 49	90 60	87 60	80 47	60 47	70 47	68 47	68 48	74 56	74 51	67 43	68.1 44.2	
SARATOGA 2E	MAX MIN	51 27	55 34	68 41	76 55	71 42	58 36	54 28	52 36	55 43	60 37	70 31	78 43	74 44	75 41	68 41	55 47	68 37	69 44	67 48	64 48	82 47	76 48	79 52	77 41	65 55	66 54	67 41	67 52	74 49	74 55	67 45	66.5 43.8	
SHELDON	MAX MIN	54 24	50 38	64 40	79 44	64 36	58 37	51 31	50 36	57 37	64 35	74 39	75 45	72 43	72 45	73 40	66 50	75 43	70 49	67 51	71 43	73 51	83 47	90 60	82 56	56 47	70 47	67 50	68 49	70 56	75 49	70 44	68.1 43.9	
SHERANDOAH	MAX MIN	59 32	71 40	79 56	92 65	83 43	75 43	72 43	70 47	65 45	67 42	74 43	78 49	80 56	81 51	76 41	83 55	86 47	80 60	71 56	73 45	71 48	86 64	90 63	89 53	76 49	60 55	60 52	69 55	75 52	80 59	74 51	75.6 50.4	
SIBLEY	MAX MIN	53 25	53 31	61 48	74 41	72 35	55 33	55 30	49 33	57 36	58 33	71 35	70 42	70 40	70 43	69 35	70 48	69 38	67 47	66 52	71 38	82 51	89 45	89 60	64 46	68 47	66 48	68 54	74 46	75 44	75 44	75.6 42.2		
SIDNEY	MAX MIN	60 37	66 38	78 53	93 60	83 40	73 43	73 42	71 45	67 42	68 48	72 46	76 54	79 56	82 49	78 54	81 50	83 58	81 55	75 48</														

DAILY TEMPERATURES

IOWA
MAY 1950

Table 5-Continued

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
TIPTON	MAX	52	64	74	80	76	72	64	58	64	58	71	76	78	81	76	65	76	74	68	76	67	78	82	88	80	68	63	72	79	73	72	71
	MIN	28	34	52	60	52	48	38	37	52	43	43	47	54	62	44	43	41	47	48	56	52	48	58	66	56	56	51	52	52	56	47	
TOLEDO	MAX	55	87	86	81	77	69	64	58	61	62	72	77	77	81	72	67	75	74	69	73	66	78	86	89	74	69	63	68	77	79	74	71
	MIN	27	37	50	58	45	45	37	38	48	44	41	49	54	52	47	47	40	50	50	53	55	49	58	68	57	54	53	51	55	59	50	49
TRIPOLI	MAX	53	59	69	78	76	66	63	58	60	62	72	79	78	82	73	68	73	71	67	70	66	77	81	83	76	69	69	70	71	79	79	70
	MIN	28	37	50	58	44	41	35	37	46	42	39	49	51	48	47	46	43	48	50	54	54	45	57	66	57	53	51	54	56	59	55	48
VINTON	MAX	62	67	68	80	77	70	67	61	60	63	70	77	76	81	76	68	76	76	70	74	73	78	80	89	89	68	67	72	78	79	69	72
	MIN	40	60	37	60	48	46	37	40	47	42	54	58	64	52	46	47	37	52	50	57	54	48	68	68	60	56	62	55	53	63	63	52
WASHINGTON	MAX	56	66	76	83	79	76	69	62	66	65	73	81	81	82	75	68	79	82	70	77	69	78	87	89	80	70	63	74	79	74	76	74
	MIN	30	37	52	63	52	49	43	40	54	46	47	49	54	53	50	49	44	54	52	55	54	50	52	66	64	55	54	54	55	61	48	51
WATERLOO AP 5NE	MAX	51	60	66	72	72	68	61	52	60	63	74	80	78	83	71	55	75	70	64	69	70	77	84	84	66	69	65	71	77	79	73	69
	MIN	32	37	52	59	45	44	42	39	48	44	40	53	53	52	46	48	46	50	51	53	51	48	57	61	58	53	53	54	56	55	50	49
WAUKEE	MAX	55	65	65	86	80	70	66	65	61	65	71	72	72	81	75	70	82	81	72	73	70	80	86	86	68	66	60	69	74	78	72	72
	MIN	32	40	53	64	46	45	42	40	47	47	45	50	55	54	52	54	46	55	55	55	55	48	60	60	57	54	52	52	57	59	55	51
WAUKON	MAX	51	56	71	73	73	63	56	52	58	58	69	77	75	80	69	62	67	71	71	66	63	77	79	84	66	66	65	67	75	76	69	67
	MIN	28	31	45	56	42	40	35	42	44	41	41	49	48	48	45	45	42	48	54	52	48	61	51	55	52	46	50	51	56	46	46	
WEBSTER CITY	MAX	55	63	65	83	79	67	61	58	59	64	74	80	78	82	76	65	78	74	69	71	63	79	86	85	70	69	65	67	72	80	72	71
	MIN	25	40	48	58	40	41	35	38	40	41	37	50	46	45	39	48	39	50	51	43	53	42	60	63	52	50	52	52	57	50	46	46
WILLIAMSBURG	MAX	56	63	80	77	77	72	65	60	62	63	72	73	77	82	73	64	78	75	68	75	69	76	83	88	80	68	63	72	76	75	72	72
	MIN	30	37	61	60	53	45	41	39	52	45	45	49	55	53	49	52	42	53	52	55	53	50	58	68	62	57	53	53	55	62	49	51
WINTERSSET	MAX	56	66	68	87	83	73	66	60	64	66	74	78	80	85	76	70	85	82	75	76	72	81	86	88	79	64	60	67	74	80	75	74
	MIN	30	38	54	62	44	45	45	43	46	44	43	48	54	52	48	52	45	54	58	50	53	47	61	60	55	49	52	50	52	56	47	49

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7 AM	33	42	49	61	65	47	46	43	51	49	49	55	60	58	57	55	54	57	55	56	58	57	62	69	60	56	56	56	59	60	57	54
	12 M	55	46	60	73	61	64	63	46	62	65	72	74	75	79	77	53	78	75	67	75	60	77	82	84	62	64	60	62	68	70	75	67
	7 PM	55	55	58	70	47	61	59	52	57	60	65	62	70	71	70	58	71	64	66	71	59	72	78	77	60	61	58	66	65	71	72	63
2 1/4 Inches	7 AM	35	43	47	59	63	46	45	45	51	46	48	52	56	55	54	56	50	56	56	56	58	54	61	67	61	56	57	56	58	60	56	53
	12 M	50	45	57	70	61	61	60	46	62	63	69	72	74	78	76	54	75	72	64	72	61	75	78	80	62	63	60	60	66	68	72	65
	7 PM	54	54	56	68	49	60	59	52	58	60	65	65	70	71	69	58	70	64	64	71	60	72	77	76	61	61	58	65	64	70	72	63
4 Inches	7 AM	37	44	47	56	62	47	48	49	52	48	49	53	56	57	56	58	52	58	57	57	60	54	61	66	64	57	58	56	58	60	58	54
	12 M	45	45	54	63	62	54	56	48	57	57	59	62	65	67	68	56	65	66	60	66	61	66	70	74	63	61	59	58	63	64	65	60
	7 PM	54	51	56	67	54	61	60	51	59	60	65	63	70	71	70	60	70	65	66	71	60	70	75	75	63	62	59	64	64	70	70	67
8 Inches	7 AM	41	46	48	53	59	50	52	53	52	51	52	55	57	60	61	55	60	59	58	61	56	62	66	66	60	59	57	59	60	60	60	56
	12 M	41	45	48	55	59	51	52	51	53	52	54	56	59	60	61	59	37	60	59	60	59	63	68	64	60	59	58	60	60	60	60	56
	7 PM	48	47	52	60	56	57	57	50	58	58	60	61	65	67	67	59	65	64	62	66	60	66	69	71	63	61	59	60	62	66	66	60
20 Inches	7 AM	43	44	44	46	49	50	50	50	49	50	50	51	52	54	55	56	55	55	56	56	56	56	56	58	60	59	58	56	56	57	58	53
	12 M	43	44	45	47	50	50	50	50	50	50	51	52	53	54	55	56	55	56	56	56	56	56	57	59	60	58	57	57	57	57	58	53
	7 PM	43	44	45	47	50	49	50	50	49	50	50	51	53	54	55	55	55	56	56	56	56	56	57	59	59	58	57	56	57	58	58	53
40 Inches	7 PM	42	42	42	43	43	44	44	45	45	46	46	46	47	48	48	48	49	49	50	50	50	51	51	52	52	52	52	52	53	53	48	
	7 PM	43	43	43	44	43	44	44	44	44	44	45	45	45	46	46	46	46	46	47	47	47	48	48	48	48	48	48	49	49	50	50	46
4 Feet Above Ground	7 AM	36	42	54	67	70	61	42	40	47	47	54	58	58	59	57	53	53	58	55	56	56	66	72	56	58	56	60	61	58	55	52	
	12 M	49	50	63	77	53	63	53	45	55	57	66	75	71	77	69	50	75	72	69	67	56	73	82	79	60	64	57	62	68	71	67	64
	7 PM	50	62	62	76	45	60	59	55	56	58	62	59	67	70	67	53	69	66	63	64	60	70	78	73	57	61	54	64	65	67	66	62

COUNCIL BLUFFS, IOWA

1 Inch	5 PM	55	56	60	74	48	63	61	58	64	68	70	67	71	80	76	76	78	72	71	65	70	77	82	81	58	63	59	63	71	73	73	67.6
2 1/4 Inches	5 PM	55	54	59	73	50	63	61	57	64	68	70	67	72	81	77	76	78	72	72	65	70	76	81	81	60	63	61	64	70	74	74	68.0
4 Inches	5 PM	54	51	56	69	52	62	59	55	63	66	68	65	71	76	74	73	75	70	71	64	69	74	78	79	62	62	61	61	66	73	72	66.2
8 Inches	5 PM	49	48	51	60	54	58	57	54	59	60	62	62	67	68	68	68	70	67	68	64	66	68	72	74	65	62	61	61	62	69	69	62.7
20 Inches	5 PM	46	47	47	49	52	51	52	52	52	53																						

STATION INDEX

IOWA
MAY 1950

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0084	Union	9 41 02	94 12 1200	6P	6P	CLOSURE	3-23-50		Morse 4 mi. SSW	5742	Johnson	10 41 41	91 28	1214	6P	6P	L. J. Fahrmeister	3 4		
Albia	0088	Plymouth	1 42 49	96 33 1153	6P	6P	Orian C. Moore	3		Mount Ayr 2 mi. N	5769	Ringgold	9 40 44	94 14	1214	6P	6P	H. L. Cornelson	2 3 4 5		
Albia	0112	Monroe	6 41 02	92 48 949	8P	7A	Arthur L. Neese	2 3 5		Mount Pleasant	5796	Henry	21 40 57	91 32	730	6P	6P	A. M. Patterson	2 3 4 5		
Albia	0133	Kossuth	6 43 04	94 14 1200	7P	7P	Harry B. Wolfe	2 3 4 5 7		Moville	5823	Woodbury	11 42 28	96 04		7P	7P	V. J. Buerbach	2 3 4 5		
Albia	0149	Wayne	9 40 42	93 23			Herman E. Reoky	2 3 4		Muscataine No. 1	5837	Muscataine	14 41 26	91 03	680	7P	7P	Robert B. Hary	3		
Albia	0157	Butler	4 42 46	92 47 1060	7P	7P	D. Tellinghuisen	2 3 5		Muscataine No. 2	5842	Muscataine	14 41 25	91 03	546			CLOSURE	2-23-50		
Albia	0173	Buena Vista	20 42 40	95 18 1513	7P	7A	F. Edna Allen	2 3 5		Muscataine 6 mi. N	5847	Muscataine	14 41 30	91 03	990			William A. Cory	3		
Albia	0181	Sioux	7 42 59	96 01 1305	7P	7P	W. S. Slagle	2 3 5		Nashua 2 mi. NW	5872	Floyd	4 42 59	92 34	900	7P	7P	Loddy Hrdlicka	2 3 5		
Albia	0205	Story	21 42 00	93 39 1004	7P	7P	Charles M. Brown	2 3 4 5 6 7		New Hampton	5952	Chickasaw	27 43 04	92 19	1156	7P	7P	Al A. Scheel	2 3 5		
Albia	0213	Jones	27 42 07	91 18 873	7P	7P	State Reformatory	2 3 5		Newton	5992	Jasper	21 41 42	93 04	950	7P	7P	Al A. Scheel	2 3 5		
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59 1110	6P	7A	Roy L. Fancolly	2 3 5		North English	6076	Iowa	4 41 29	92 05 789				Ernest E. Andrews	3 4		
Atlantic 2 mi. E	0369	Cass	16 41 24	95 02 1152	MID	MID	Airways Com. Sta.	2 3 4 5 7		Northwood	6103	Worth	4 43 27	93 13 1222	7P	7P	Charles A. Walker	2 3 5			
Atlantic 3 mi. E	0385	Adair	16 41 42	94 57 1297	6P	6P	Ralph E. Kibby	2 3 5		Northwood	6119	Page	22 40 45	95 12 1132	7P	7P	Soil Cons. Service	2 3 4 5 6 7			
Atlantic 4 mi. E	0389	Des Moines	21 40 46	91 17 522	5A	5A	Glen Wood	3		Northwood	6151	Pottawattamie	18 41 19	95 23 1150	6P	6P	Ward D. Reineke	2 3 5			
Atlantic 5 mi. E	0467	Kossuth	6 43 18	94 13 1200	7P	7P	Ouy D. Hart	2 3 5		Oakland 2 mi. E	6186	Johnson	10 41 43	91 24				Ed. Kadera	3 4		
Atlantic 6 mi. E	0493	Fremont	28 40 53	95 44	6P	6P	E. L. Kilpatrick	2 3 5		Ocala	6200	Fayette	27 42 40	91 55 1036	6P	6P	CLOSURE	5-16-50			
Atlantic 7 mi. E	0549	Boone	6 42 02	94 06			Arthur E. Sparks	3 4		Oelwein	6243	Monona	15 42 02	96 06 1050	7P	7A	W. J. Oliver	2 3 5			
Atlantic 8 mi. E	0576	Taylor	28 40 41	94 44 1215	6P	6P	H. J. Chambers	2 3 5		Onawa	6305	Mitchell	4 43 17	92 48 1170	6P	6P	L. J. Lamprecht	2 3 5			
Atlantic 9 mi. E	0600	Benton	10 41 54	92 17 855	7P	7P	Walter C. Rabe	2 3 5		Osage	6316	Clarke	6 41 02	93 46 1136	6P	6P	Ray A. Kerns	2 3 5 7			
Atlantic 10 mi. E	0600	Benton	14 42 16	90 25 603	7P	7A	U. S. Engineers	2 3 4 5		Oskalooza	6327	Mahaska	6 41 17	92 40 813	8P	8A	Clif. Bergstromer	2 3 5 7			
Atlantic 11 mi. E	0609	Jackson								Ottumwa AP CAA 5 mi. N	6389	Wapello	6 41 06	92 27 842	MID	MID	Airways Com. Sta.	2 3 4 5 7			
Atlantic 12 mi. E	0745	Taylor	19 40 36	94 29 1081	5P	5P	Clean A. Cobb	3		Ottumwa	6391	Wapello	6 41 00	92 24 820				Winfrey Kinnear	3		
Atlantic 13 mi. E	0753	Davis	8 40 47	92 26 825	7P	7P	Mrs. Leo Foster	2 3 5		Ottumwa	6392	Wapello	6 41 24	92 55 875				Arthur K. Varricks	2 3 5		
Atlantic 14 mi. E	0807	Boone	6 42 04	93 53 1126	8P	8P	E. G. Kolb	2 3 5		Ottumwa	6393	Wapello	6 41 24	92 55 875				Eugene M. Haslie	2 3 5		
Atlantic 15 mi. E	0807	Boone	6 42 04	93 53 1126	8P	8P	E. G. Kolb	2 3 5		Ottumwa	6394	Wapello	6 41 24	92 55 875				Thomas A. Mc Mahon	2 3 5		
Atlantic 16 mi. E	0923	Hancock	10 43 04	93 49 1234	6P	6P	Rev. B. A. Rust	2 3 4 5 7		Ottumwa	6395	Wapello	6 41 24	92 55 875				Richard J. Ballard	2 3 5		
Atlantic 17 mi. E	1063	Des Moines	14 40 47	91 08 695	MID	MID	U.S. Weather Bureau	2 3 5		Ottumwa	6396	Wapello	6 41 24	92 55 875				Clarence M. Totty	2 3 5		
Atlantic 18 mi. E	1233	Carroll	20 42 04	94 52 1280	7P	7A	Ben H. Schenkelberg	2 3 4 5		Ottumwa	6397	Wapello	6 41 24	92 55 875				Ed. M. Cozad	3		
Atlantic 19 mi. E	1257	Dubuque	12 42 18	91 00 880	7P	7A	C. J. Neiders	2 3 5 7		Ottumwa	6398	Wapello	6 41 24	92 55 875				Municipal P & L Pl.	3 4		
Atlantic 20 mi. E	1277	Monona	11 42 04	95 49	7P	7P	Bob Zimmerman	2 3 5		Ottumwa	6399	Wapello	6 41 24	92 55 875				Marvin A. Trees	3 4		
Atlantic 21 mi. E	1300	Black Hawk	4 42 32	92 27 875	7P	7P	E. J. Cable	2 3 5 7		Ottumwa	6400	Wapello	6 41 24	92 55 875							
Atlantic 22 mi. E	1319	Linn	4 41 59	91 39 813	7P	7A	John T. Wurster	2 3 5 7		Ottumwa	6401	Wapello	6 41 24	92 55 875							
Atlantic 23 mi. E	1324	Linn	4 41 58	91 40						Ottumwa	6402	Wapello	6 41 24	92 55 875							
Atlantic 24 mi. E	1354	Appanoose	5 40 43	92 53 1013	7P	7P	Karl McIntire	2 3 4 5		Ottumwa	6403	Wapello	6 41 24	92 55 875							
Atlantic 25 mi. E	1394	Lucas	5 41 00	93 15 940	7P	7P	Ellis Shaw	2 3 5		Ottumwa	6404	Wapello	6 41 24	92 55 875							
Atlantic 26 mi. E	1402	Floyd	4 43 04	92 40 1013	MID	MID	U.S. Weather Bureau	2 3 4 5		Ottumwa	6405	Wapello	6 41 24	92 55 875							
Atlantic 27 mi. E	1442	Charokey	11 42 45	95 33 1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7		Ottumwa	6406	Wapello	6 41 24	92 55 875							
Atlantic 28 mi. E	1528	Cedar	4 41 53	91 03			Ronald W. Harness	3		Ottumwa	6407	Wapello	6 41 24	92 55 875							
Atlantic 29 mi. E	1535	Page	17 40 44	95 01 1004	7P	7A	Walter L. Weakland	2 3 5		Ottumwa	6408	Wapello	6 41 24	92 55 875							
Atlantic 30 mi. E	1541	Wright	3 42 44	93 44 1170	7P	7P	George Reeder	3 5		Ottumwa	6409	Wapello	6 41 24	92 55 875							
Atlantic 31 mi. E	1635	Clinton	14 41 50	90 11 589	7P	7P	Samuel W. Williams	2 3 5 7		Ottumwa	6410	Wapello	6 41 24	92 55 875							
Atlantic 32 mi. E	1640	Clinton	14 41 50	90 11			David M. Swift	3		Ottumwa	6411	Wapello	6 41 24	92 55 875							
Atlantic 33 mi. E	1731	Louisa	10 41 17	91 22 595	6P	6P	Alice Best	2 3 5		Ottumwa	6412	Wapello	6 41 24	92 55 875							
Atlantic 34 mi. E	1783	Carroll	20 41 51	94 39			Charles W. Smith	2 3 5		Ottumwa	6413	Wapello	6 41 24	92 55 875							
Atlantic 35 mi. E	1833	Adair	17 41 00	94 45 1285	7P	7A	W. Earl Gibson	2 3 5		Ottumwa	6414	Wapello	6 41 24	92 55 875							
Atlantic 36 mi. E	1858	Pottawattamie	15 41 20	95 49			Mrs. B. O. Crane	2 3 5		Ottumwa	6415	Wapello	6 41 24	92 55 875							
Atlantic 37 mi. E	1859	Pottawattamie	15 41 19	95 49			Perry C. Crandall	2 3 5 7		Ottumwa	6416	Wapello	6 41 24	92 55 875							
Atlantic 38 mi. E	1884	Howard	23 43 22	92 07 1285	6P	6P	Guy D. Huapbray	2 3 5		Ottumwa	6417	Wapello	6 41 24	92 55 875							
Atlantic 39 mi. E	1962	Union	19 41 03	94 22 1300	7P	7A	Nellie Spangler	2 3 5		Ottumwa	6418	Wapello	6 41 24	92 55 875							
Atlantic 40 mi. E	2007	Cass	17 41 18	94 55 1225	6P	6P	Carl E. Pollock	2 3 5		Ottumwa	6419	Wapello	6 41 24	92 55 875							
Atlantic 41 mi. E	2026	Ida	11 42 30	95 39 1350	7P	7P	H. P. Lasher	2 3 5		Ottumwa	6420	Wapello	6 41 24	92 55 875							
Atlantic 42 mi. E	2037	Rusholt	6 42 44	94 12 1133	7P	7P	H. S. Brandsgard	2 3 4 5		Ottumwa	6421	Wapello	6 41 24	92 55 875							
Atlantic 43 mi. E	2069	Scott	14 41 30	90 38 579	MID	MID	U.S. Weather Bureau	2 3 5 7		Ottumwa	6422	Wapello	6 41 24	92 55 875							
Atlantic 44 mi. E	2110	Winneshiek	24 43 18	91 48 859	5P	5P	Walter Bates	2 3 5		Ottumwa	6423	Wapello	6 41 24	92 55 875							
Atlantic 45 mi. E	2117	Winneshiek	24 43 13	91 47 880	7P	7A	Mora A. Carlson	2 3 5		Ottumwa	6424	Wapello	6 41 24	92 55 875							
Atlantic 46 mi. E	2136	Delaware	12 42 28	91 23 1083	7P	7P	Clair E. Paris	2 3 5		Ottumwa	6425	Wapello	6 41 24	92 55 875							
Atlantic 47 mi. E	2171	Crawford	4 42 00	95 22			E. M. Hogg	2 3 5 7		Ottumwa	6426	Wapello	6 41 24	92 55 875							
Atlantic 48 mi. E	2195	Lucas	5 40 56	93 27			Lloyd A. Kirk	3 4		Ottumwa	6427	Wapello	6 41 24	92 55 875							
Atlantic 49 mi. E	2203	Polk	6 41 32	93 39 954	MID	MID	U.S. Weather Bureau	2 3 4 5 7		Ottumwa	6428	Wapello	6 41 24	92 55 875							
Atlantic 50 mi. E	2208	Polk	6 41																		

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the postoffice.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

This issue contains additional precipitation data for the storm of May 8 on pages 88 and 89.

W.B.O., Kansas City, Mo. -- 7-19-50 -- 1115

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

JUNE 1950

Volume LXI No. 6



KANSAS CITY: 1950

IOWA - JUNE, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

June 1950 was cool and wet. Temperatures for the State averaged 68.4°, or 1.1° below normal. Precipitation averaged 5.70 inches, which is 1.16 inches above normal. It was the fourth consecutive month with below-normal temperatures in Iowa and crop growth remained behind schedule. Rather general rains fell on 12 days of the month and only the southwest district and a narrow area along the Iowa-Minnesota border failed to receive at least normal rainfall. More than 9 inches fell at Independence, LeMars, Carroll, Bellevue Lock and Dam, and Mount Pleasant.

Some rain fell on each of the first 3 days of June with heaviest amounts recorded on the 2nd, particularly in the western portion of the State where the Boyer River rose rapidly to near bankfull. Temperatures during these 3 days were cool with no extreme readings reported.

The period June 4th-8th was dry, and temperatures were favorable for plant growth though still slightly below normal. Highs of 90° were observed at a few stations in the northwest part of Iowa and a low of 34°, which was the State low for June, was reported on the 4th at Oakland.

On June 9 locally heavy rains fell in many sections of the State. The 10th and 11th were cool and dry, but somewhat higher temperatures and frequent showers marked the 12th-24th. During the latter period numerous local storms occurred, with hail reported in the northwest on the 12th and 13th, some local flooding in the West Boyer valley north of Denison on the 12th, and on the 15th a small but severe tornado just southeast of Ames and flash floods northwest of Indianola. Heavy rains fell at most points in the State sometime during the 17th-19th. Some flooding of farm bottom lands along the lower Des Moines and Iowa rivers was noted during the 18th to 20th. The Floyd River damaged crops and roads in adjoining lowlands between LeMars and Sioux City on the 18th and 19th. The 20th-24th was warm and humid. Heavy precipitation was recorded again on the 24th along the middle portions of the Iowa and Cedar watersheds and northeastward to the Mississippi. Lowlands along the Iowa River valley were flooded. The 25th-30th continued the general cool trend of the month, but the State high of 100° was recorded on the 25th at Shenandoah. Sibley had an unseasonable low of 37° the morning of June 29th.

The cool wet conditions prevailing throughout June hampered cultivation of corn and soybeans and haying operations. Cultivation was about a week late throughout the month and by June 30th only 10-15% of the corn acreage had received its final cultivation. Usually about 50% is laid by on that date. Good stands of corn and beans were reported in most areas and, other than delaying the date of maturity considerably, not much permanent damage had been done to the crop by the end of the month. Ideal July and August conditions are needed to produce above-average yields, however. It is estimated that about 5% of this year's corn acreage will be abandoned, indicating some flood damage of a permanent nature. A large amount of hay was wet by the frequent rains before it could be stored. The first crop was large because of the heavy spring rainfall, and second cuttings should be a little better than usual too. Small grain prospects are excellent. While the exact effects of weather conditions on the corn borer are not too well known, June rains and cool weather have not prevented the borer from becoming what entomologists call a major threat to corn production in Iowa this year.

STORMS

Several violent storms were reported during June. Most severe authenticated windstorm probably was the tornado which swept a path some 300 yards wide and 5 miles long from east to west about 3 miles south of Ames and Nevada on the 15th. Two farmsteads were demolished and other buildings, crops, and trees damaged. Total damage to the community was estimated at \$30,000.00. Funnel clouds usually associated with tornadoes were seen by many persons in Lyon and Osceola counties on the 15th.

Extensive hail damage occurred in western counties on the 12th. The most severe damage was in western Crawford County in the vicinity of Schleswig, Dow City, and Manilla. A severe storm, accompanied by hail and driving rain and reported in the local newspaper as a tornado, struck near Harlan on the 23rd.

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages --mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
JUNE 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
Burlington WB Airport	SW	15	10.7	49	W	15	83	85	62	64	4	1	4	3	1	1	14	69	4.9	40
Charles City WB City	-	-	7.1	21	SE	12	-	-	-	-	1	1	6	4	1	0	13	69	4.2	53
Davenport WB City	-	-	-	-	-	-	-	-	-	-	8	2	2	2	1	1	16	-	-	28
Des Moines WB City	S†	16†	10.6	40	W	5	79†	82†	60†	59†	6	3	4	1	2	0	16	62	5.0†	33
Dubuque WB City	-	-	5.9	29	NE	13	-	-	-	-	6	3	4	0	4	0	17	67	5.9	35
Sioux City WB Airport	SSW	15	9.9	49	W	14	77	82	52	50	2	2	3	2	2	0	11	80	4.0	47

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	74.5	96	56	4.68			1903	64.6	96	30	2.86		10	1933	77.8	109	34	1.64		4
1874	71.4	98	47	5.83			1904	67.1	94	35	3.45		7	1934	77.2	111	43	3.49		9
1875	67.5	92	45	7.81			1905	69.9	100	36	5.53		10	1935	65.9	94	33	7.00		13
1876	67.6	92	41	4.09			1906	67.9	99	37	3.92		8	1936	70.1	108	37	2.85		9
1877	66.9	92	40	6.89			1907	66.5	98	36	5.35		11	1937	69.0	108	36	3.80		9
1878	66.7	94	44	6.34			1908	67.1	94	35	5.66		13	1938	69.2	102	38	4.67		11
1879	69.4	91	40	5.12			1909	69.1	96	40	6.41		13	1939	71.4	100	41	5.32		12
1880	71.0	96	42	4.40			1910	69.5	105	33	1.99		7	1940	71.3	102	42	3.56		8
1881	70.4	100	40	7.37			1911	75.7	108	36	1.82		5	1941	70.0	98	41	6.20		12
1882	68.1	98	33	7.48			1912	66.2	101	34	2.74		7	1942	69.7	99	34	5.93		12
1883	67.6	96	38	6.69			1913	71.5	102	33	3.31		7	1943	71.6	101	37	6.16		14
1884	70.2	95	36	3.65			1914	72.2	101	40	5.57		13	1944	71.7	101	38	5.88		10
1885	67.9	89	42	5.08			1915	65.1	91	31	4.16		11	1945	64.1	94	29	4.70		12
1886	69.3	98	34	1.73			1916	64.5	96	38	3.71		10	1946	69.8	108	27	6.41		10
1887	72.1	103	40	2.93			1917	66.0	100	32	6.65		12	1947	66.3	98	37	10.39		14
1888	69.4	102	34	2.93			1918	70.8	104	38	5.29		11	1948	68.6	97	37	3.42		10
1889	66.7	98	33	4.75			1919	71.9	98	41	6.13		13	1949	72.4	99	36	5.51	T	10
1890	72.2	106	39	6.67			1920	70.7	99	40	3.56		9	1950	68.4	100	34	5.70	T	9
1891	69.1	99	37	5.39	11		1921	74.7	100	40	3.76		9	Period	69.6			4.79	T	
1892	69.2	102	42	5.19	10		1922	72.2	104	38	1.82		6							
1893	71.2	100	40	3.91	8		1923	70.9	100	40	4.93		12							
1894	73.2	104	34	2.67	7		1924	66.8	96	35	8.10		14							
1895	69.7	102	34	4.32	10		1925	70.4	98	38	6.64		12							
1896	69.1	100	40	3.11	9		1926	66.2	105	32	4.52		8							
1897	69.1	103	29	3.81	10		1927	66.4	101	35	2.42		9							
1898	71.4	99	42	4.72	9		1928	64.5	88	31	5.38		12							
1899	70.7	100	42	5.04	10		1929	67.6	99	38	3.08		9							
1900	69.7	102	38	3.98	5		1930	69.0	101	37	5.83		10							
1901	72.3	106	30	3.71	9		1931	75.0	106	36	3.73		9							
1902	65.2	97	32	7.16	14		1932	72.0	99	48	5.17		11							

See reference notes following Station Index

CLIMATOLOGICAL DATA

IOWA
JUNE 1950

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																		
Alta	67.7	- 1.2	91	25	43	19	2	0	3.53	- 1.20	1.59	18	.0	0		8	4	1
Alton	69.6	.7	92	15	40	4	9	0	4.23	.13	1.58	17	.0	0		6	6	1
Emmetsburg	67.0 M				43	3+		0						0				
Estherville	69.2	1.9	94	13+	40	3	4	0	3.10	- 1.38	1.54	18	.0	0		8	3	1
Hawarden	69.2	.2	94	13	42	4	8	0	5.64	1.54	3.16	18	.0	0		9	6	1
Inwood 2 W	67.6	-.6	92	13	39	3	5	0	4.63	.18	2.26	18	.0	0		9	3	2
Lake Park	67.4	.4	92	13	42	3	2	0	3.02	- 1.13	1.25	18	.0	0		6	3	1
Le Mars	69.5	.4	92	5+	43	4	7	0	9.65	5.53	5.13	19	T	0		7	6	2
Milford 4 NW	68.0 M	-.7	92	25	40	3	2	0	3.36	-.79	1.48	18	.0	0		8	4	2
Pocahontas	68.0	-.6	94	25	44	3	1	0	2.29	- 2.42	1.77	18	.0	0		7	1	1
Pringhar	68.9	.4	93	13	42	3+	4	0	3.87	-.30	2.00	18	.0	0		6	4	1
Rock Rapids	68.0	-.4	90	24+	43	3	2	0	5.07	.72	2.08	12	.0	0		8	4	2
Sanborn	67.7	-.3	92	13	41	3	1	0	5.62	1.44	2.61	18	T	0		9	6	1
Sheldon	67.3	-.6	91	13	41	4	1	0	5.32	1.26	1.45	18	.0	0		8	7	1
Sibley	66.5	-.8	90	13+	37	4+	2	0	2.28	- 2.13	1.25	18	.0	0		7	2	1
Sioux Rapids	67.7	- 1.1	94	13	40	4	4	0	5.87	1.37	2.94	18	.0	0		5	5	2
Storm Lake 2 E	68.2	-.3	91	25	41	19	1	0	3.74	-.78	1.49	18	.0	0		6	4	1
DIVISION	68.1	- 2							4.45	.13			T					
NORTH CENTRAL DIVISION																		
Algona	68.0	-.8	91	14+	43	3	2	0	5.09	.81	1.73	18	.0	0		8	8	1
Allison	67.5	- 1.3	92	25	42	4	2	0	8.15	3.70	2.05	18	.0	0		7	6	5
Bancroft	68.8	1.5	91	6+	41	3	5	0	3.33	- 1.12	1.00	18	.0	0		10		1
Britt	64.6	- 3.4	89	25+	38	1+	0	0	4.81	.50	2.00	18	.0	0		7	4	2
Charles City	66.8	- 1.0	90	25	43	4	1	0	5.20	.94	1.07	17	.0	0		12	6	1
Clarion	67.4	- 1.6	92	25	40	4	2	0	6.51	1.86	2.60	18	T	0		9	6	3
Dakota City	68.0	-.9	93	25	42	3	1	0	6.35	1.67	3.42	18	.0	0		6	3	2
Forest City	66.5	- 1.1	91	25	39	3	1	0	3.03	- 1.49	1.34	18	.0	0		8	4	1
Hampton	67.9	-.6	91	25	43	3	1	0	6.07	1.37	2.24	18	.0	0		11	5	3
Mason City 3 N	66.3	- 1.3	90	25	39	3	1	0	4.34	-.32	1.07	18	.0	0		10	7	1
Mason City AP CAA	65.6		89	25	38	3	0	0	4.73	.07	1.10	17	.0	0		10	7	1
Northwood	66.5	.9	88	13+	40	3	0	0	2.28	- 2.55	1.39	18	.0	0		10	3	1
Osage	66.3	- 1.0	89	25	41	3	0	0	3.14	- 1.59	1.50	18	.0	0		7	3	1
DIVISION	66.9	- 1.1							4.85	.30			T					
NORTHEAST DIVISION																		
Cascade	67.8		89	25	40	4	0	0	9.00		2.30	2	T	0		10	5	5
Cresco	65.6	-.9	89	25	39	4	0	0	4.52	-.18	1.45	9	.0	0		6	5	1
Decorah 2 S	64.8	-.7	88	25	38	4	0	0	7.61	3.52	2.53	13	.0	0		13	7	2
Delaware 2 W	65.6	- 2.8	87	25	40	4	0	0	7.51	2.91	1.89	13	.0	0		11	6	3
Dubuque L & D 11	66.9	- 2.5	89	25	45	4+	0	0	7.33	3.17	1.97	13	.0	0		12	7	3
Dubuque WB City	68.4		90	25	45	4+	1	0	7.59	3.43	1.94	13	.0	0		11	8	4
Elkader	65.8	- 1.4	94	25	35	4	3	0	7.44	2.92	2.00	13	.0	0		8	6	4
Fayette	66.5 M	- 1.1	89	25	39	4	0	0	8.54	4.25	2.00	13	.0	0		12	5	5
Guttenberg L & D	68.0	- 2.2	90	25	42	4	1	0	5.84	1.44	1.73	13	.0	0		12	7	2
New Hampton	64.4 M	- 3.2	87	25	35	4	0	0	4.91	.63	1.35	24	.0	0		7	5	3
Saratoga 2 E	64.2		87	25	38	3	0	0	4.01		1.35	9	.0	0		8	5	2
Tripoli	67.4		89	25	42	4	0	0	6.51		2.00	18	.0	0		11	5	3
Waukon	65.1	- 1.9	86	25	42	17	0	0	6.57	2.17	2.02	13	.0	0		8	6	3
DIVISION	66.2	- 1.7							6.72	2.36			T					
WEST CENTRAL DIVISION																		
Audubon 2 S	66.9	- 2.5	93	25	42	5	1	0	4.88	.36	3.10	18	.0	0		11	4	1
Carroll	69.9	.8	97	23	43	4	2	0	9.39	4.67			.0	0		13	6	
Castana 4 E	68.1		98	13+	42	4	2	0	6.54		2.11	18	T	0		9	6	2
Denison 1 S	68.3	- 1.1	93	23+	43	4	2	0	7.40	3.18	2.36	18	T	0		7	5	4
Harlan	69.5	-.3	93	25	40	4	5	0	4.12	-.36	2.05	18	T	0		6	3	2
Ida Grove 4 SSE	68.0 M	- 1.0			41	4		0						0				
Jefferson	68.1 M	- 1.5	93	25	42	4	1	0	6.86	2.37	2.73	18	.0	0		11	6	2
Lake City	68.3	- 1.6	95	25	41	3+	4	0	6.33	1.63	3.56	18	.0	0		7	5	2
Logan	69.4	- 1.3	95	23	40	4	4	0	3.26	- 1.27	1.38	18	.0	0		9	3	1
Mapleton 5 NW	67.7	- 2.3	92	13	40	4	1	0	7.46	3.06	2.96	12	T	0		8	4	2
Missouri Valley	71.3	-.7	97	23	41	4	8	0	3.24	- 1.16	1.45	14	.0	0		6	4	1
Onawa	70.1	-.8	95	25	40	4	7	0	6.05	1.60	2.20	18	.0	0		7	4	3
Rockwell City	68.3	- 1.2	94	25	43	3+	3	0	5.22	.51	2.69	18	.0	0		7	5	1
Sac City	69.5	.5	95	25	45	3	3	0	5.97	1.63	3.76	18	.0	0		8	4	1
Sioux City WB AP	68.7	-.8	94	13	42	1+	7	0	4.90	.87	1.06	17	T	0		9	7	2
DIVISION	68.8	- 1.1							5.83	1.37			T					
CENTRAL DIVISION																		
Boone	69.6	-.4	97	25	45	4	2	0	5.59	.98	3.25	18	.0	0		7	5	1
Des Moines WB AP	69.0	- 1.2	93	25	42	4	1	0	4.82	.41	1.69	18	T	0		9	4	2
Des Moines WB City	70.1		94	25	43	4	2	0	4.45	.04	1.76	18	T	0		10	4	2
Fort Dodge	68.5	-.3	94	25	42	3	2	0	7.62	3.24	2.04	24	T	0		14	6	3
Grinnell	67.9	- 2.1	91	25	38	4	1	0	7.10	2.42	3.45	18	T	0		12	8	1
Grundy Center 4 NE	66.8	- 1.3	90	25	43	3+	1	0	6.35	1.59	1.91	18	.0	0		14	5	3
Iowa Falls 1 N	67.0	- 1.0	91	25	42	4	1	0	5.82	1.13	2.35	18	.0	0		10	4	2
Marshalltown	68.1	- 1.8	92	26	42	4	1	0	6.75	2.29	1.96	18	T	0		11	5	3
Newton	69.9	-.7	93	25	42	4	1	0	4.13	-.31	2.33	18	.0	0		9	4	1
Perry 2 SE	68.3	- 1.9	96	25	40	4	1	0	6.17	1.83	2.56	18	.0	0		9	5	2
State Center	69.4	-.4	92	25	44	4	1	0	8.69	4.24	3.63	18	.0	0		10	8	3
Toledo	68.0	- 1.2	90	25	42	4	1	0	6.31	1.55	2.00	24	.0	0		15	6	2
Waukeo	70.5	-.1	95	25	44	4	1	0	6.01	1.56	2.24	18	.0	0		7	5	3
Webster City	68.0	-.8	95	25	40	4	4	0	7.78	3.28								

CLIMATOLOGICAL DATA

IOWA
JUNE 1950

Table 2-Continued

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
EAST CENTRAL DIVISION																		
Anamosa 1 NW	67.2	- 2.0	89	25	40	4	0	0	7.68	3.08	2.23	2	.0	0		11	7	3
Belle Plaine	68.6	- 1.1	90	25	40	4	1	0	7.56	2.91	3.35	24	.0	0		11	5	2
Bellevue L & D 12	67.3		90	25	39	4	1	0	9.68	5.28	2.32	2	T	0		12	9	4
Cedar Rapids No. 1	68.7	- 1.6	90	25	42	4	1	0	8.89	4.78	2.48	2	.0	0		12	6	4
Clinton No. 1	69.8	- .6	93	25	43	4	2	0	6.90	2.55	2.17	18	.0	0		10	6	3
Davenport WB City	70.5	- .8	92	25	48	4+	2	0	5.74	1.51	2.05	13	T	0		8	5	2
Iowa City AP CAA	68.5	- 1.4	93	25	41	4	1	0	6.98	2.23	2.30	18	.0	0		10	6	2
Le Claire L & D 14	69.9		90	25	45	4	1	0	5.39	1.21	1.60	13	.0	0		13	6	2
Maquoketa 5 E	68.3	- .5	90	25	43	4	1	0	6.92	2.35	2.24	2	.0	0		10	6	3
Muscatine No. 1	70.7	- .4	93	25	42	4	3	0	7.13	2.73	2.85	18	.0	0		9	6	2
Tipton	67.5	- 2.5	92	25	38	4	1	0	5.94	1.62	2.02	13	.0	0		8	6	2
Vinton	68.1 M	- 1.5																
Williamsburg	68.7	- 1.5	89	25	43	4	0	0	7.01	2.23	4.27	18	.0	0		10	6	1
DIVISION	68.8	- 1.1							7.15	2.67			T					
SOUTHWEST DIVISION																		
Atlantic 1 E	69.1	- 1.3	95	25	37	4	4	0	3.37	- 1.43	1.59	18	.0	0		7	2	2
Atlantic AP CAA	68.9		96	25	35	4	2	0	4.31	- .49	1.80	13	.0	0		9	4	2
Bedford 1 N	69.2	- 2.0	93	25	40	4	2	0	5.17	.07	1.60	9	.0	0		4	4	3
Clarinda	70.7	- .6	98	25	38	4	6	0	3.24	- 1.80	1.56	9	.0	0		9	3	1
Corning 1 W	69.5	- .7	96	25	39	4	3	0	2.99	- 1.55	1.40	18	.0	0		6	3	1
Council Bluffs 5 NE	69.3		96	25	38	4	9	0	1.94		.72	18	.0	0		7	4	0
Glenwood 2 E	70.2	- 2.4	97	25	38	4	4	0	3.21	- 1.74	1.49	9	.0	0		7	4	1
Greenfield	68.1	- 2.2	93	25	41	4	2	0	4.71	- .31	2.26	18	.0	0		7	3	3
Oakland 2 E	68.5	- 2.3	96	25	34	4	4	0	2.78	- 1.74	1.37	18	.0	0		8	2	1
Red Oak	69.0	- 2.6	95	25	35	4	2	0	2.14	- 2.61	.74	18	.0	0		8	3	0
Shenandoah	71.9	- .6	100	25	42	4	9	0	3.55	- 1.45	1.25	17	.0	0		8	3	2
Sidney	72.8		98	25	44	4	9	0	3.58		1.23	17	.0	0		5	4	1
DIVISION	69.6	- 1.8							3.42	- 1.41			.0					
SOUTH CENTRAL DIVISION																		
Albia	69.4	- 1.2	92	25	43	4	1	0	5.08	.43	1.02	18	.0	0		11	6	1
Centerville	69.8	- 1.8	93	25	41	4	2	0	7.82	2.99	2.60	19	T	0		9	8	3
Chariton 3 E	68.8	- 1.0	93	25	39	4	1	0	7.04	2.38	2.37	14	.0	0		7	5	3
Creston	68.8	- 1.0	94	25	41	4	2	0	5.05	-.06	1.78	18	.0	0		11		
Indianola	70.5	- .4	95	25	46	4	1	0	5.32	.78	2.53	18	.0	0		8	5	2
Knoxville 2 W	70.2	- .9	94	25	42	4	2	0	4.61	.08	2.15	18	.0	0		9	5	1
Lamoni AP CAA 4 WNW	68.9	- 2.1	93	25	42	4	3	0	5.00		1.64	18	T	0		8	5	2
Millerton	68.4	- 2.1	91	25	42	4	1	0	7.35	2.61	4.13	18	.0	0		7	5	2
Mount Ayr 2 N	68.9	- 1.8	91	25	41	5	1	0	5.70	.65	1.79	19	.0	0		8	6	2
Osceola	70.4	.4	95	25	43	4	1	0	5.93	1.18	1.64	18	.0	0		9	5	3
Tingley	68.7	- 2.0	92	25	40	4	1	0	3.67	- 1.38	1.80	18	.0	0		7	4	1
Winterset	70.3	- .8	94	25	41	4	1	0	5.53	1.22	2.48	18	.0	0		9	5	2
DIVISION	69.4	- 1.3							5.68	.89			T					
SOUTHEAST DIVISION																		
Bloomfield 2 N	70.7 M	- 1.0			43	4		0	8.41	3.70	4.15	18	T	0		10	7	2
Burlington WB AP	69.2	- 2.3	93	25	43	4	2	0	6.71	1.87	2.91	18	.0	0		10	7	1
Columbus Junction	69.2	- 1.4	91	25	40	4	1	0					.0	0				
Fairfield	69.6 M	- 1.2			42	4		0	6.00	1.85	2.70	14	.0	0		10	3	2
Keokuk L & D 19	71.9	- .8	92	17+	49	4	2	0					.0	0				
Keokuk WB City	71.0	- 1.7	92	25	45	4	2	0	5.84	1.69	2.70	14	T	0		10	3	2
Keosauqua State Park	69.5		90	25	44	4	1	0	4.71	- .47	1.15	18	.0	0		11	6	1
Mount Pleasant	69.4	- 2.0	92	25	42	4	2	0	9.68	4.73	3.22	18	.0	0		9	7	3
Oskaloosa	69.3	- 1.0	92	25	40	4	1	0	5.69	1.04	1.50	18	.0	0		13	6	2
Ottumwa AP CAA	70.0	- 2.0	93	25	44	4	1	0	7.06	2.24	2.22	18	.0	0		10	6	3
Sigourney	72.8	2.0	91	25	43	4	1	0	7.03	2.28		18	.0	0		11		
Washington	69.7	- .9	91	16+	41	4	2	0	6.00	1.44	2.30	18	.0	0		10	6	2
DIVISION	70.2	- 1.0							6.71	1.97			T					
STATE	68.4	- 1.1							5.70	1.18			T					

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
JUNE 1950

Table 3-Continued

Station	Day of month																															Total				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Hapleton 5 NW		.87							.32			2.96	.21	.14		.05	2.10			.03		.97	.16											7.46		
Haqueoketa 5 E		2.24	.03					.10			.09	1.36	.39	.22		1.29	1.54					.05	.70											6.92		
Harlow 4 NE	R	.05						1.00			.30	.99	.80	.05		1.29	1.10					.08	.20	1.32										6.05		
Marshalltown	Z	.56						T			.44	.25	.35		.75	1.07	.18					.08	.23	1.66	.15									6.75		
Mason City 3 W	Z	.45	.67					T			.09	.16	.47	T	T	1.10	.88				.31	.06	.49											4.73		
Mason City AP CAA	6	.57	.60					T	T		.40	.20	.20	.07			2.12				.27	.39	.34					.02						4.09		
Merrill 5 W		.44									.01	.01	.29			.12	1.48																		3.36	
Milford 4 NW		1.09							.68		.06	T	1.38	.16		.29	4.13				.31							T						7.35		
Millerton		.67									.03	.11	1.45	T	T		.92																	3.24		
Missouri Valley	Z	.42									.03	.11	1.45	T	T		.92																	7.56		
Moena	R	.02	.54						1.60			1.61	1.69	.02		.38	.56				.05	.05	1.06	.43	.37				T					6.30		
Montezuma		.05	.11						.22		.37	.26	.05	.57	.14		3.40	.21			.02													5.59		
Morse	R	.09	.24						.10		.71	1.26	.57			.01	1.71																		5.87	
Morse 1 NE	R	.09	.34						.20		.89	1.27	.48			.02	1.68																		4.55	
Morse 4 SW	R	.07	.35						.18		.63	1.14	.72			* 1.05																			5.70	
Mount Airy 2 W	Z		.50						.69			.98	.05			.37	1.25	1.79																	9.68	
Mount Pleasant	Z	1.76							.25		.24	.49	.72	.21		1.23	.89					.84	.01												5.86	
Mosville	R	.67							.08		1.32	.72	T	.32		T	2.85	.20		T				.85											7.13	
Muscatine No. 1	Z	.02	.43	T					.04	T		1.45	.05	.55	.01		2.02	.41			T			.80	.14										5.72	
Muscatine No. 2	Z	.15	.09						.62			.05	.08	.55	.01		1.71				.07	.03	.07	.50	.46										4.85	
Nashua 2 NW		.50	.27						.62			.42	.47																							4.91
New Hampton		1.25							.10		.10	.85	T	.03	.04		2.33	.17			T														6.52	
Newton		.05	.28					.28	.25		.50	.85	T	.03	.04		4.01																		2.28	
North English	R	.19	.24						.01	.01	.01	.01	.46	.30	.01		1.39	.03					.01	.09	T										2.78	
Northwood		.40	.03						.40			.01	.01	.30	.01		1.39	.03																	6.18	
Oakland 2 E		.14							.77		T	.12	.10	.02	T	.07	1.37				.19														6.05	
Oasis	R	.23	.16						.08		T	1.10	.81	.04		.01	1.72				.05	.06	.20												3.14	
Osawa		2.04							.20		T	.04	.30				1.50	T					.05	.20											5.93	
Osage		.85							.85		1.59	1.20	.02			.32	1.64	.18																		5.69
Osceola		.03	.02						.25		.21	.41	.22	.85	.23		1.50	1.04			.03		.43	.15											7.06	
Oskaloosa		.13	.24						.42		.66	.11	1.83	.20	.22	.01	2.22	.01	T				1.12												3.64	
Ottumwa AP CAA	Z	T	.48						.20		.73	.13	.57	.22	.18	.98	.95	.10				.61	.09												6.17	
Pella		T	1.08						.19		.06	.18	.03			T	2.56	.21			.21		.14	.09											2.29	
Perry 2 SE		T	1.08						.03		.73	.13	.57	.22	.18	.98	.95	.10				.61	.14	.09											3.87	
Pocahontas									.03		.06	.18	.03			T	1.77	.08					.33	.36												2.14
Pringhar									.64	.04		.13	.90	.15		2.00																				7.14
Red Oak			.03						.11		T	.11	.07	T		.49	.74			.02		.83	.05												2.89	
Ramsen		.11	.40						1.00		1.00	.85	.09			.67	.75					.44	.05													4.03
Ringsted		.26	.63						1.20			1.02	T			1.24	.29	.13	T																	5.07
Riverton	R								1.20		.15	1.02	T			1.24	.29	.13	T																	5.22
Rock Rapids		.69							.64	.04		.13	.90	.15		2.00						.33	.36												5.97	
Rockwell City	Z	.71							.04		T	.28	T	.11		.03	1.25			.39		.86	.05												2.17	
Sac City		.67							.24		T	.28	T	.11		.03	1.25			.05		.81	.05												4.86	
St. Ansgar 2 S		.24	.22						.03		.05	.20	.46			.75	.55					.01	.12												5.62	
Saint Charles	R	.17	.17						.21	.25	.86	.54	.34	.46		.10	1.93																			4.01
Saraborn		.66							.12	.91	.38	.02	.27			.19	2.61					.27	.46	.02											5.80	
Saratoga 2 E	R	.71							1.35		* .55	.16	1.44	.02		.70	1.01					.42	.04	.02											5.32	
Sheffield		.68	.50						.65		.65	.45	.02			.74	1.45					.70	.59												6.99	
Sheldon		.72							.56	1.25	.44	.89	.70			.94	.95					.04	.18												3.55	
Shell Rock	R	.23	.81						.56	1.25	.44	.89	.70			.94	.95					.04	.18												2.28	
Shenandoah		.60							.06	.02	.88	.22	.27			1.25	.19	.07	.02			.03													3.58	
Sibley		.60							.12	.03	.22	.27				.03	1.25				.89															7.03
Sidney		.31							.30	T	.90	.26				1.23	.23																			5.22
Sigourney		.17	.36						.39	.47	.16	.26				* 2.61						.75														4.78
Sioux Center	R								.10	1.51	.68					1.83	.55																			4.90
Sioux City 8 W		.70							.15		.45		.25			2.65						.35	.23												5.87	
Sioux City WB AP	Z	.63							.09	.44	.46	.75				1.06	.42					1.03	.02												4.78	
Sioux Rapids		1.19							.40		.40	.06				.17	1.28																			-
Soldier	R	2.38							.40		.40	.06				.17	1.28																			-
Spencer 1 W	6	.09	.21						.09	.21	.86	.54	.34	.46		.10	1.93																		8.19	
Spillville	R	.08	.62						1.70		.48	1.07	.25			.59	.61					.04	* .44	2.74	.05										8.69	
State Center		.77							1.30		.48	.35	.03			3.63	.27	.06				.33	.33	1.47												

HOURLY PRECIPITATION

IOWA
JUNE 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
	-8th-																								
ANKENY 2SW																					.06	.48	.43	.01	.98
ATLANTIC AP CAA																					.05	.26	.32		.60
CHARLES CITY																					.02	.08	.02		.14
DAVENPORT WB CITY																					.05	.01	.05	.01	.11
DES MOINES WB APT																					.02	.01	.02	.01	.04
DES MOINES WB CITY																					.01	.07	.74		.81
FOREST CITY																					.01	.01			.02
GREENFIELD																						.07	1.33		1.40
GRINNELL																					.15	.28	.03	.11	.57
HAMBURG																							.24		.24
IOWA FALLS 1N																					*	*	*	*	*
LENOX																						.02			.02
MARSHALLTOWN NO 2																									.96
MOUNT AYR 2N																	.05	.02			.01				.21
NORWICH 2E SCS FARM																									.17
SAINT CHARLES																					1.27	.96	.49	.02	2.74
SHELL ROCK																									.03
TABOR 6NW																									.18
TRAEER																									.14
WALLIN 2WNW																					.06	.06	.01	.01	.14
WEBSTER CITY																									
WHEATLAND																									
	-9th-																								
ALLERTON																									.45
ANKENY 2SW	.04	.36	.17	.01																					.58
ATLANTIC AP CAA	.05	.01																							.06
BEAVER	.10	.03																							.13
BELLEVUE L/D 12							.70																		.70
BURLINGTON WB APT							.01	.13	.03													.03			.20
CASCADE							.07	.01																	.37
CENTERVILLE				.18	.11	.08																			.22
CHARLES CITY				.08	.14																				.01
COON RAPIDS	.01							.09																	.09
DAVENPORT WB CITY																									.41
DERBY	.01	.25	.09	.06																					.47
DES MOINES WB APT	.29	.04	.14																						.60
DES MOINES WB CITY	.15	.35	.09	.01																					1.10
DEXTER	.95	.15																							.35
DUBUQUE WB CITY							.11	.24																	.17
GREENFIELD	.09	.08																							.30
GRINNELL		.13	.08	.09																					.15
HAMBURG	.11	.02	.02																						
IOWA CITY AP CAA																									.10
IOWA C RALSTON CRK1							.02	.05	.03																.09
IOWA C RALSTON CRK2								.05	.04																.07
IOWA C RALSTON CRK3								.04	.03																.07
IOWA C RALSTON CRK4							.01	.06																	.10
IOWA C RALSTON CRK5							.03	.03	.04																.49
IOWA FALLS 1N	.01	.19	.28	.01																					.03
KEOKUK WBO											.02														.40
KNOXVILLE 2W		.25	.14	.01																					.62
LAMONI AP CAA 4WNW	.42	.10	.06	.04																					1.17
LENOX	.94	.23																							.10
MARION 4NE																									1.00
MARSHALLTOWN NO 2																									1.00
MISSOURI VALLEY		.09	.01																						1.60
MONONA	.36	.83	.11	.24	.05	.01	.01																		.10
MORSE			.01	.04	.03	.01	.01																		.20
MORSE 1NE			.09	.06	.03	.01	.01																		.18
MORSE 4SSW																									.67
MOUNT AYR 2N	.46	.21																							.25
MOUNT PLEASANT				.09	.06	.07	.03																		.09
MUSCATINE NO 1				.02	.02		.05																		.25
NORTH ENGLISH				.17	.05		.03																		.30
NORWICH 2E SCS FARM	.30																								.08
OASIS							.08																		.51
OTTUMWA AP CAA				.34	.05	.02	.03	.02	.01	.01	.01	.02													.03
ST ANSGAR 2S	.01	.01	.01																						.25
SAINT CHARLES	.08	.14	.03																						1.25
SHELL ROCK	.19	.14	.46	.44	.01	.01																			1.70
SPILLVILLE																									.51
STRAWBERRY POINT																									.01
TABOR 6NW	.10	.22		.17	.02																				.29
TRAEER	.01																								.10
WALLIN 2WNW	.09	.01		.28	.01																				.19
WASHINGTON																									.09
WEBSTER CITY				.01	.09	.06	.03																		.24
WHEATLAND				.06	.03																				
				.23	.01																				
	-10th-																								
SHEFFIELD																									
	-11th-																								
CHEROKEE																						.05	.06		.11
HAMBURG																					.07	.13			.03
IDA GROVE 4SSE																						.01	.01	.01	.23
LARRABEE																									.03
SIOUX CENTER																									.10
SIOUX CITY WB APT																									.09
TABOR 6NW																					.17	.03			.20
	-12th-																								
ANKENY 2SW																									.80
ATLANTIC AP CAA																									.02
BEAVER																									.38
BURLINGTON WB APT																									.66
CASCADE																									.07
CENTERVILLE																									

Table 4-Continued

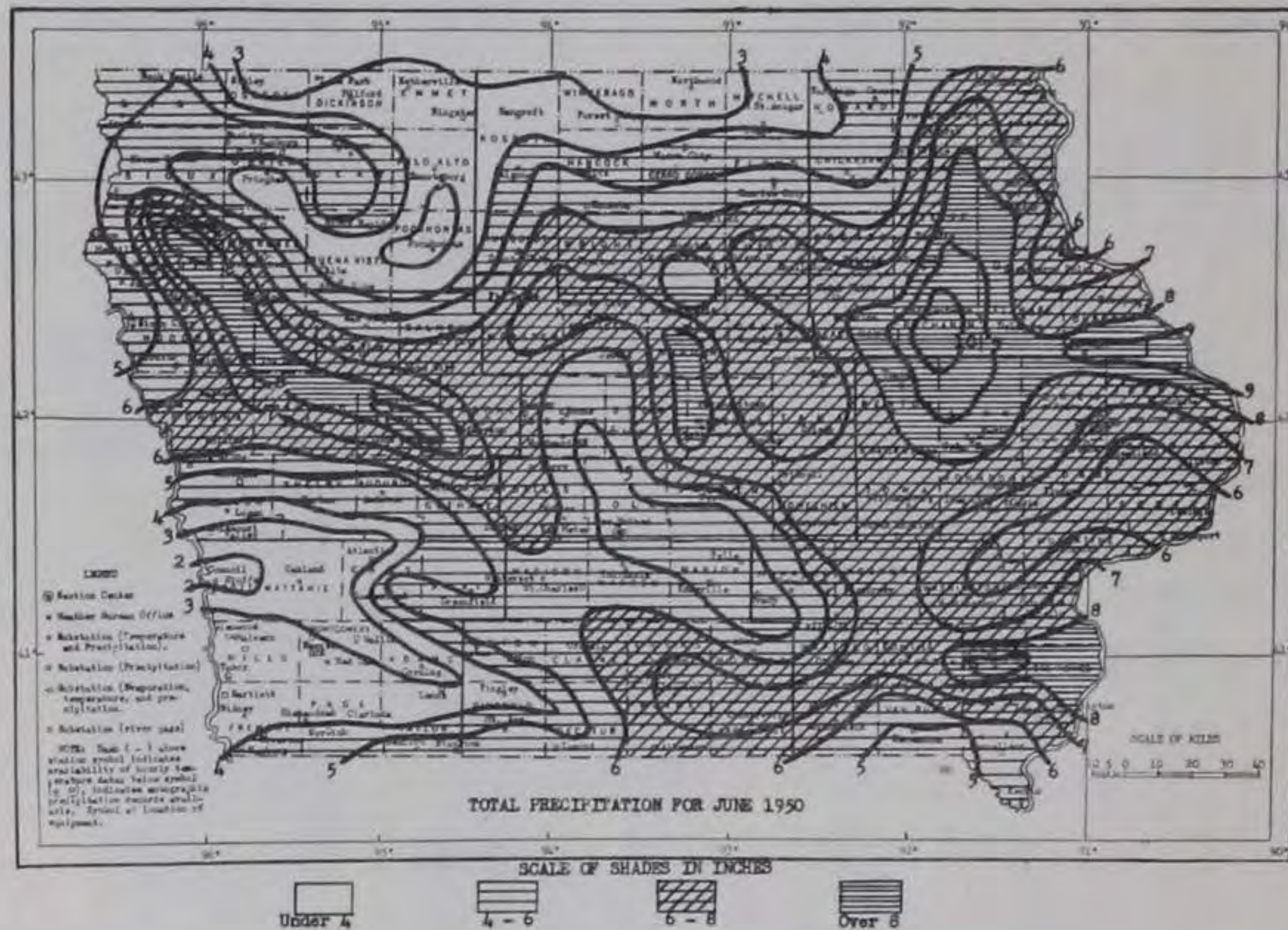
HOURLY PRECIPITATION

IOWA
JUNE 1950

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
HAMBURG				.04																				.04	
HINTON 5WNW		.25	.01																					.26	
HORNICK			.12	.11	.02																			.25	
IDA GROVE 4SSE			.01	.03	.05	.22	.38	.27	.35	.10														1.41	
IOWA CITY AP CAA	6													.39	*	*	*	*	.05						
IOWA C RALSTON CRK1								.01	.09	.01	.48	.04	.01	.01	.01							.01	.01	.68	
IOWA C RALSTON CRK2								.02	.11	.01	.56	.02	.02	.01	.02			.01						.78	
IOWA C RALSTON CRK3								.01	.11		.47	.03	.02	.03										.87	
IOWA C RALSTON CRK4									.11		.42	.03	.02	.03										.61	
IOWA C RALSTON CRK5								.03	.08	.04	.44	.01	.03	.01	.02									.66	
LARRABEE		.01	.01						.01															.03	
LENOX						.01		.01	.01															.03	
MARION 4NE									.03	.22	.05													.30	
MARHALLTOWN NO 2							.05			.01	.03	.10	.04	.01	.01									.25	
MASON CITY AP CAA	6	*	*	*	*	*	.07	*	*	*	*	*	.02												
MORSE								.01	.06	.01	.54	.04	.02	.02	.01									.71	
MORSE 1NE								.05	.01	.73	.01	.03	.04	.01	.01				.01					.89	
MORSE 4SSW								.02	.03	.02	.47	.06	.02	.01										.63	
MOUNT PLEASANT																						.24		.24	
MOVILLE		.05	.32	.72	.27	.11	.09																	1.56	
MUSCATINE NO 1									.02	.24	.08	.01	.73	.04	.02	.10								1.24	
NORTH ENGLISH										.23	.01		.07	.01	.18									.50	
NORWICH 2E SCS FARM				.05						.10	.12	.04	.34	.02								.01		.05	
OASIS																								.64	
OTTUMWA AP CAA							.08										.56							.64	
REMSEN		.03	.16	.14	.06	.05	.56																	1.00	
ROCKWELL CITY					.02	.05	.08	.08	.07	.09	.01													.40	
ST ANSGAR 2S		.01		.01	.01	.02																		.40	
SAINT CHARLES												.49	.37											.05	
SHEFFIELD	*	*	*	*	*	*	*	*	*	.55														.86	
SHELL ROCK						.02		.38	.04															.53	
SIOUX CENTER		.01	.14			.23	.93	.21																.44	
SIOUX CITY WB APT	.43																							1.51	
SOLDIER		.01	.02	.17	.19	.01																		.44	
SPENCER 1N	6	*	*	*	*	*	.02																	.40	
TABOR 6NW			.04	.01																				.05	
TRAEER			.01	.01			.02	.05	.08	.01		.01	.07											.26	
WALLIN 2WNW		.01	.04	.01	.04																			.10	
WASHINGTON											.16	.01	.01	.26	.01	.01								.46	
WHEATLAND										.08	.02	.05												.15	
WOODBINE 5SE			.01	.05																				.06	
-13th-																									
ATLANTIC AP CAA	//																				.20	1.50	.28	1.98	
BELLEVUE L/D 12	//	.07	.83	.27	.04	.13	.12	.02	.08															1.56	
BURLINGTON WB APT	//						.48	.50	.14															1.12	
CASCADE			.01	1.27	.33	.12	.08	.09	.01															1.91	
CHARLES CITY						.01	.15																	.16	
DAVENPORT WB CITY					1.56	.27	.18	.04																2.05	
DUBUQUE WB CITY	.20	.01	1.03	.33	.23	.10	.01	.01	.02															1.94	
GREENFIELD																					.07	.54	.15	.76	
IOWA CITY AP CAA	6	*	*	*	*	*	1.05	*	*	*	*	*	.15											.83	
IOWA C RALSTON CRK1		.01	.01			.43	.33	.05																.88	
IOWA C RALSTON CRK2					.05	.45	.37	.01																.77	
IOWA C RALSTON CRK3						.37	.39	.01																.70	
IOWA C RALSTON CRK4						.47	.26	.01												.73	.01			1.03	
IOWA C RALSTON CRK5					.05	.41	.24																	.70	
KEOKUK WBO								.22	.16	.15														.76	
KNOXVILLE 2W												.54	.41									.23		.06	
LAMONI AP CAA 4WNW									.03	.06		.01												.08	
LENOX																								.17	
MARION 4NE				.21	.71	.07																		.99	
MASON CITY AP CAA	6													.16											
MISSOURI VALLEY			.01	.03	.17	.06	.01	.01	.01												.02	1.18		1.50	
MONONA		.51	.43	.19	.13	.35																		1.81	
MORSE				.11	.36	.32	.33	.14																1.26	
MORSE 1NE					.83	.43	.01																	1.27	
MORSE 4SSW					.56	.58																		1.14	
MOUNT AYR 2N																						.24		.24	
MUSCATINE NO 1		.02			.42	.23	.03																	.70	
NORWICH 2E SCS FARM				.01	.10	.01																		.12	
OASIS		.01		.03	1.22	.58																		1.84	
OTTUMWA AP CAA																					.04	.04		.08	
SAINT CHARLES																					.07	.47		.54	
SHEFFIELD						.10		.01	.05															.16	
SHELL ROCK				.43	.46																			.89	
SPENCER 1N	6																				*	*	*		
SPILLVILLE				.44	.41	.19		.02	.01															1.07	
STRAWBERRY POINT			.06	1.18	.86	.20	.02	.03																2.35	
TABOR 6NW		.08		.04																				.12	
TRAEER									.08															.08	
WALLIN 2WNW	.01				.04		.03																	.08	
WASHINGTON					.08	.04																		.12	
WHEATLAND				.75	.33	.13	.09	.01																1.31	
WOODBINE 5SE																					.04			.04	
-14th-																									
ALLERTON		1.25	.57	.03	.05				.12	.03							.14	.73	.35		.62	.13		4.02	
ATLANTIC AP CAA	//	.32	.01		.10																			.43	
BELLEVUE L/D 12	//																				.01	.18	.11	.30	
BURLINGTON WB APT	//		.01	.07	.20	.06																		.35	
CASCADE																					.02	.19	.44	.08	.75
CENTERVILLE		1.42	.13	.02	.01																			*	
CHARLES CITY									.24	.02														.26	
COON RAPIDS							.10	.02																.12	
COUNCIL BLUFFS 6 NE						.07	.12																	.19	
DAKOTA CITY																	1.29	.20	.01					1.50	
DAVENPORT WB CITY																					.48			.48	
DERBY	1.24	.29	.0																						

HOURLY PRECIPITATION

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
NORTH ENGLISH				.06	.04	.04	.34	.02	.07	.12	.01	.01													.71
OASIS			.12	.16	.10	.01	.06	.01	.05	.04															.55
OTTUMWA AP CAA	6						.40	.06	.66	.13														1.25	
SPILLVILLE		.01	.02					.02																.05	
STRAWBERRY POINT		.02						.01					.04											.07	
TRAEER		.14	.16		.01		.12	.08	.02	.03	.02													.58	
WASHINGTON				.35	.08	.06		.16	.09	.16														.90	
WEBSTER CITY							.11	1.49	.03	.02	.01	.01	.01	.01	.01	.01								1.70	
WHEATLAND		.24	.02	.05		.02	.02		.06	.08	.06													.55	
WOODBINE SSE			.02	.03																				.05	
-28th-																									
BELLEVUE L/D 12															.32									.32	
BURLINGTON WB APT	//														.02	.05	.01		.01					.01	
CASCADE															.05									.08	
DUBUQUE WB CITY															*	*	*	*	*					.05	
IOWA CITY AP CAA	6															.10			.22					.10	
OASIS																									
-30th-																									
HARTLEY 3S								.02	.08	.06														.15	
NORTH ENGLISH																									



MONTHLY AND SEASONAL SNOWFALL

IOWA
JUNE 1950

July 1949 to June 1950

Station	July	August	September	October	November	December	January	February	March	April	May	June	Season
Afton	T			T	-	4.0	10.5	9.3	9.0	15.0	T	-	47.8
Akron	T				T	1.3	6.0	11.5	7.3	3.0			29.1
Albia					.5	2.3	10.2	10.2	9.6	T			32.8
Algona					.5	7.0	5.5	16.2	12.0	-			-
Allison						.4	13.5	13.0	12.6	T			39.5
Alta						2.0	7.5	9.5	-	T			-
Alton			T		T	2.0	5.6	12.4	4.5	T	T	-	26.6
Ames 3 SW					.8	3.3	2.4	11.1	6.0	3.0			26.7
Anamosa 1 NW						2.9	4.5	6.3	6.6	6.4	T		-
Atlantic 1 E													-
Atlantic AP CAA				T	T	3.3	3.9	6.2	7.2	3.3	T		23.9
Audubon 2 S						.7	6.2	8.2	9.3	2.0	T		26.4
Augusta					T	1.0	-	3.2	-	.4			49.0
Bancroft					T	3.0	4.6	7.3	5.5	6.0			26.4
Bartlett 3 E											T		-
Bedford 1 N			T	T	.1	2.8	8.8	17.7	6.8	1.6			37.8
Belle Plaine					2.5	5.7	5.3	5.1	3.9	.5		T	23.0
Bellevue L & D 1						3.0	9.8	6.0	T	5.0			23.8
Blockton 2 S						T	5.0	-	-	-			-
Bloomfield 2 N											T		-
Boone			T		.8	6.5	7.5	16.0	7.7	.8		T	39.3
Britt					.2	.7	1.6	6.3	2.4	T			11.2
Burlington WB AP						.2	6.0	14.5	6.0	T			26.7
Carroll					2.8	8.1	5.0	11.8	8.7	.4		T	36.8
Cascade													-
Castana 4 E	T				T	.8	12.4	13.7	7.1	.7	T	T	34.7
Cedar Falls					2.4	5.4	5.5	14.0	13.6	T			40.9
Cedar Rapids No.1					.7	3.1	6.5	10.6	5.5	1.4	T		27.8
Cedar Rapids No. 2					T	3.7	6.5	12.6	4.8	1.0			-
Centerville	T				T	2.0	7.7	6.2	4.0	2.0		T	21.9
Chariton 3 E				T	T	2.5	5.0	10.0	7.0	-	T		42.6
Charles City					2.6	10.4	6.3	13.8	9.4	.1			-
Cherokee					T	1.0	7.5	8.0	11.0	T			-
Clarence					T	1.2	-	-	5.5	4.5			30.5
Clarinda						5.1	5.5	7.3	6.3	6.3			-
Clarion			T		1.0	1.0	7.0	19.5	9.5	T		T	38.0
Clinton No. 1					T	2.2	3.3	9.8	-	2.6			21.4
Clinton No. 2					1.0	2.6	3.3	9.7	3.8	1.0			-
Columbus Junction			T		.2	2.0	-	-	2.8	T			-
Corning 1 W							3.2	-	-	-	T		-
Council Bluffs 5 NE					T	1.0	7.8	6.2	5.5	2.0			22.5
Cresco				T	4.0	8.4	5.0	17.0	10.8	T			45.2
Creston						8.1	7.8	-	-	8.2	T		31.0
Cumberland 5 NW						4.5	4.5	6.0	7.0	9.0			-
Cushing 3 NE					T	2.6	15.1	6.5	10.0	T	T		-
Dakota City					.2	.3	8.1	16.6	8.6	T		T	33.8
Davenport WB City					.2	2.0	1.8	9.0	2.7	.8	T		16.5
Decorah					3.0	10.5	4.5	12.0	13.0	-			44.4
Decorah 2 S					3.7	15.2	6.0	15.0	4.5	T			-
Delaware 2 W						6.0	5.0	11.0	12.5	-	T	T	-
Denison 1 S			T		.5	-	-	4.0	-	-	T	T	36.0
Des Moines WB AP	T				.1	1.9	5.5	15.3	8.1	5.1	T	T	38.2
Des Moines WB City					T	2.3	7.2	16.4	9.0	3.3			-
Donnellson 4 N									2.4	-			-
Dorchester						13.0	5.3	9.0	10.9	-			-
Dubuque L & D 11					2.0	10.6	4.8	13.7	8.7	T			39.8
Dubuque WB City					3.6	8.1	4.9	10.1	10.1	T			36.8
Dumont 4 NW					1.0	5.4	8.5	18.7	11.5	1.1			46.2
Dunbar 2 NE	T				1.0	3.1	6.5	13.5	8.6	.5			33.2
Eddyville						1.5	7.0	9.5	4.0	2.0			-
Eldora			T		T	1.5	7.5	19.0	8.2	-			38.2
Elkader					3.5	13.0	6.5	13.5	14.0	5.5			50.5
Emerson 5 NE						6.0	6.5	6.9	8.5	-			33.4
Emmetsburg					T	1.5	12.5	15.5	11.0	-	T		-
Estherville					1.1	5.0	11.5	7.0	13.8	.5			38.9
Fairfield						.9	3.5	14.2	3.0	.3			-
Fayette					4.5	10.8	6.9	11.4	16.7	-	T		-
Forest City					.9	6.5	5.5	11.3	-	.5			-
Fort Dodge			T		T	1.0	8.0	19.0	11.5	T		T	39.5
Glenwood 2 E						4.5	7.0	9.5	6.0	2.0			29.0
Glenwood 6 SE					T	-	-	-	-	-			-
Greenfield					T	5.3	4.9	10.0	7.0	7.0		T	34.2
Grinnell					T	2.5	8.0	18.5	10.0	4.3	T	T	43.3
Grundy Center 4 NE						3.0	4.0	10.0	5.5	-			-
Guthrie Center						1.9	3.9	10.5	10.4	T			-
Guttenberg L & D					2.5	12.3	7.5	8.0	-	-			35.1
Hampton					.8	4.0	5.0	16.0	9.3	T			-
Harlan						.5	11.0	8.6	9.0	3.0			-
Hawarden						5.5	9.0	12.5	18.7	T			-
Ida Grove 4 SSE						1.2	11.0	13.0	13.0	T			-
Independence 2 W					2.0	3.5	7.1	-	9.2	-	T		45.0
Indianola				T		2.5	8.5	16.0	10.0	8.0			43.7
Inwood 2 W					.2	3.2	7.8	12.3	12.8	7.4	T		-
Iowa City						-	-	-	-	3.0			26.7
Iowa City AP CAA					T	1.8	5.1	14.1	4.4	1.3			-
Iowa Falls 1 N	T												-
James Iowa					1.5	4.7	9.0	17.0	8.5	.5			41.2
Jefferson											T		-
Jewell 2 S						.5	6.5	15.5	11.5	T	T		34.0
Kanawha						1.0	7.5	14.0	5.0	T			27.5
Keokuk L & D 10							8.6	12.6	10.3	.5			-
Keokuk WB City					T	2.0	T	6.1	4.5	-		T	12.6
Keosauqua State Pk			T	T	.1	1.5	.7	-	3.0	T			-
Keosauqua					T	-	2.0	8.5	2.5	.5			-
Knoxville 2 W	T	T			T	2.0	3.0	5.4	-	-	T		37.0
Lake City					T	2.2	8.0	8.6	13.4	4.8			-
Lake Park						T	5.4	-	-	-	T		-
Lake View						3.8	8.5	12.5	14.5	1.0			-
Lamoni					T	.5	10.5	13.5	-	-			-
Lamoni AP CAA 4 WNW					T	1.6	7.0	7.3	3.0	-		T	-
						.9	6.6	7.4	6.7	2.4	T		-

See reference notes following Station Index.

MONTHLY AND SEASONAL SNOWFALL

Continued

July 1949 to June 1950

IOWA
JUNE 1950

Station	July	August	September	October	November	December	January	February	March	April	May	June	Season
Lansing					2.5	13.7	5.0	15.4	11.7	T			48.3
Le Claire					1.3	2.1	1.5	7.1	1.2	1.0			14.2
Le Claire L & D					T	1.5	2.0	10.0	1.8		T		15.3
Le Mars					T	1.0	9.0	10.5	13.5	T		T	34.0
Logan			T		T	1.5	16.0	5.0	11.0	4.0			37.5
Lorimor	-	-	-	-	-	-	-	-	-	-	-	-	-
Malvern 5 W					T	-	2.8	7.5	6.0	6.0	-		-
Mapleton 5 NW						T	11.5	9.0	4.8			T	-
Mapleton 2 SW						2.0	8.5	9.1	4.0	T			-
Maquoketa 5 E					2.8	7.7	4.0	12.5	10.1	-	T		-
Marshalltown					.2	-	8.0	22.1	4.5			T	-
Mason City 3 N				T	2.9	7.8	7.9	12.7	10.4	-			-
Mason City AP CAA				T	2.0	2.6	3.6	9.2	7.3	.4			25.1
Merrill 5 W					T	1.5	11.0	11.0	-		T		-
Milford 4 NW					.4	1.7	10.5	8.1	10.5	1.5			32.7
Millerton					T	2.0	6.3	7.3	5.9	-			-
Missouri Valley		T		T	.2	1.4	13.2	9.8	8.4	7.0	T		40.0
Monmouth 4 SW		T			1.5	-	-	-	-	-	-	-	-
Montezuma					-	3.5	3.9	8.0	-	6.0			-
Mount Ayr 2 N													-
Mount Pleasant					T	2.5	1.0	10.0	3.5	2.0			19.0
Muscatine No. 1	T				T	8.7	1.5	10.8	2.0	1.5	T		24.5
Muscatine No. 2					T	.9	.1	7.7	-	1.0	T		-
Washua 2 NW	-	-	-	-	-	9.0	4.5	10.0	8.7	T			-
New Hampton					3.0	9.4	6.5	21.0	17.0	T			56.9
Newton					T	.2	7.0	11.9	8.0	1.5			28.6
Northwood					2.0	9.0	6.5	14.5	10.0	1.0			43.0
Norwich 2 E SCS Farm					T	6.0	8.6	8.8	8.2	4.8	-	-	-
Oakland 2 E					T	2.2	2.8	5.5	5.5	3.3	T		19.3
Oelwein					2.0	8.0	6.2	9.5	-	1.0	-	-	-
Onawa					T	1.2	9.4	11.3	7.5	1.0			30.4
Osage					3.2	-	7.5	10.5	7.5	-			-
Osceola						1.8	6.5	10.0	7.7	8.0	T		34.0
Oskaloosa					T	2.1	10.0	11.2	7.5	5.7			36.5
Ottumwa 1 WSW		T			-	-	-	-	-	-	-	-	-
Ottumwa AP CAA					T	2.1	4.0	7.4	2.8	4.1			20.4
Ottumwa						3.0	5.0	10.0	4.5	3.0			-
Pella	T	T			-	-	-	-	4.9	3.8			-
Perry 2 SE					T	2.4	5.7	13.0	7.5	.1	T		28.7
Pocahontas													-
Pringhar						2.1	4.0	-	9.4	T			-
Red Oak			T		T	5.5	5.0	6.8	4.4	2.5	T		24.2
Riverton				T		4.5	4.5	8.3	-	2.0			-
Rock Rapids					T	5.5	8.5	12.5	12.1	5.0	T		43.6
Rockwell City			T		T	1.2	13.2	11.3	12.5	T	T		38.2
Sac City			T		T	1.0	8.7	10.0	11.0	T			30.7
Sanborn					T	2.1	13.0	11.1	16.0	-		T	-
Saratoga 2 E					2.5	-	8.7	7.5	11.0	T			-
Sheldon				T	T	3.0	13.6	12.5	20.0	1.5	T		50.6
Shenandoah					T	5.5	6.2	7.5	5.5	2.5			27.2
Sibley	T				T	2.5	12.0	11.4	12.5	1.7	T		40.1
Sidney					T	6.0	6.2	7.0	5.0	6.0	T		30.2
Sigourney					T	3.0	6.6	-	2.6	2.0	T		-
Sioux City 8 N						-	5.3	-	-	-	T		-
Sioux City WB AP			T		T	1.5	8.7	7.8	8.7	.6	T	T	27.3
Sioux Rapids					T	.5	13.0	18.0	12.0	T	T		43.5
Spencer 1 N			T		T	.4	-	-	8.0	-	-	-	-
State Center					T	1.9	-	20.7	7.4	-			-
Storm Lake 2 E					T	2.0	13.5	11.9	7.5	T			34.9
Tingley					T	2.9	5.4	11.5	7.0	6.0	T		32.8
Tipton					2.0	5.5	6.0	13.4	8.1	3.0	T		38.0
Titonka 6 NE	-	-	-	-	-	3.6	9.7	11.4	11.4	.3			-
Toledo					T	-	6.0	16.0	5.5	T	T		-
Tracy					T	-	9.1	11.0	9.5	2.5			-
Tripoli					2.0	8.5	5.0	8.2	12.6	T	T		36.3
Van Meter						3.0	-	-	4.3	T			-
Vinton					T	-	5.5	12.0	-	T			-
Vapello					.1	2.7	-	12.0	1.8	-			-
Washington					T	2.5	-	12.5	3.5	T			-
Waterloo					1.5	3.3	7.2	11.6	-	-	-	-	-
Waterloo AP 5 NE	-	-	-	-	-	-	-	-	-	T			-
Waukeo					T	1.5	7.5	13.0	7.1	3.0	T		32.1
Waukon	T				3.0	11.0	5.0	4.9	9.0	-			-
Webster City					T	2.0	8.5	23.0	9.3	T		T	42.8
Webster City 2 S					-	-	-	-	-	-			-
Williamsburg					1.5	2.0	7.6	-	2.1	-			-
Winterset					T	2.4	5.0	13.9	-	6.0			-
Woodward 7 N	T		T		-	2.9	-	15.0	6.0	T			-

See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
JUNE 1950

Table 5

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ALBIA	MAX MIN	77 54	75 56	65 50	74 43	78 51	81 60	84 60	84 69	82 62	78 57	81 51	81 61	86 64	86 66	86 67	88 68	63 54	71 49	77 54	85 58	84 62	85 67	87 75	85 73	87 85	78 59	82 54	78 59	82 60	76 51	78 55	78 58	79.6 59.2
ALGONA	MAX MIN	77 49	70 56	63 43	78 46	84 51	85 61	81 61	77 69	78 53	75 54	81 50	84 61	88 67	91 64	81 63	80 49	64 51	56 47	74 57	80 58	87 64	84 65	87 65	84 70	90 59	82 50	75 50	73 60	75 51	73 55	78.6 57.3		
ALLISON	MAX MIN	80 46	67 56	62 44	79 42	82 48	86 59	86 64	79 69	78 60	73 54	82 53	80 59	85 62	89 66	82 64	77 46	69 49	60 47	73 50	80 56	88 56	86 65	90 65	84 68	92 65	74 57	80 49	76 55	76 49	73 56	78.9 56.0		
ALTA	MAX MIN	77 44	68 56	64 44	76 45	85 49	85 58	81 59	82 67	78 51	78 50	82 55	84 61	90 72	83 63	86 64	76 61	65 50	58 49	73 43	83 54	87 61	86 62	88 66	85 71	91 57	81 52	74 52	74 55	77 48	78 53	79.2 56.2		
ALTON	MAX MIN	78 42	77 59	66 44	77 40	90 50	90 59	89 62	85 70	86 50	79 50	83 48	85 62	91 72	90 73	92 66	73 60	65 52	74 43	84 55	89 60	90 66	90 62	90 64	90 74	87 58	80 48	87 56	77 45	79 53	80 51	80 55	82.6 56.5	
ANAMOSA 1NW	MAX MIN	77 48	74 57	63 47	74 40	77 49	82 58	84 58	84 69	80 63	76 54	80 44	78 52	85 60	82 68	84 64	84 68	76 47	62 45	70 53	76 52	85 52	84 61	84 73	82 64	89 85	77 60	77 51	78 56	74 47	73 53	78.4 55.9		
ATLANTIC 1E	MAX MIN	76 47	66 57	65 43	74 37	83 47	85 47	83 57	78 68	80 55	79 53	83 48	88 64	91 76	87 64	90 70	88 68	71 55	68 49	75 55	80 58	87 67	88 67	91 73	88 71	95 73	80 53	80 49	81 53	79 46	81 49	81.3 56.8		
ATLANTIC AP CAA	MAX MIN	78 46	66 50	64 41	74 35	82 42	84 56	85 59	79 64	79 52	77 51	81 45	89 64	89 62	80 70	89 54	77 51	60 50	68 53	75 53	80 67	86 73	88 67	91 73	87 70	96 62	73 50	78 43	78 52	77 41	79 47	79.6 54.2		
AUDUBON 2S	MAX MIN	74 47	65 54	62 46	74 44	80 42	80 55	79 57	76 65	72 54	77 52	79 55	84 61	85 61	89 63	87 63	81 50	63 49	62 45	74 55	78 58	83 63	84 63	88 71	84 69	93 70	80 56	76 52	76 55	76 47	77 56	77.9 55.8		
BASCROFT	MAX MIN	79 46	72 56	65 41	79 43	88 49	91 60	86 61	79 69	78 52	77 53	89 49	90 61	89 66	90 66	89 63	86 63	69 49	57 50	76 42	79 55	88 58	89 65	91 65	90 65	88 65	82 69	80 55	74 48	78 60	77 48	77 54	81.5 56.0	
BEDFORD 1W	MAX MIN	74 49	68 60	62 49	74 40	78 45	80 54	81 54	78 67	78 57	76 52	78 56	86 63	90 70	85 63	88 70	87 69	73 55	75 51	71 51	78 56	83 62	85 65	85 73	87 69	93 72	86 60	78 53	84 60	79 50	82 51	80.1 58.2		
BELLE PLAINE	MAX MIN	82 49	72 59	66 47	77 40	80 45	85 56	86 58	84 69	80 63	78 52	82 49	86 57	84 64	86 69	89 63	87 70	59 50	73 48	80 51	88 53	86 64	86 73	86 65	83 73	90 65	86 57	78 51	83 58	78 48	77 55	80.4 56.8		
BELLEVUE L AND D 12	MAX MIN	78 48	77 58	65 51	75 39	78 47	84 58	85 60	85 68	82 63	72 54	80 46	73 50	84 59	85 64	83 65	86 65	71 48	61 45	71 53	75 51	84 63	84 63	85 71	84 65	90 71	85 59	77 56	81 54	76 48	72 56	78.9 55.7		
BLOOMFIELD 2W	MAX MIN	79 68	78 60	67 59	76 43	79 51	85 56	85 67		87 62	78 56	73 61	80 63	83 63	87 64	88 69	76 60	67 62	79 53	87 60	87 62	86 63	86 65	86 73									80.8 60.6	
BOONE	MAX MIN	79 52	69 59	63 48	76 45	73 51	87 61	86 62	77 70	81 52	79 56	83 53	83 63	89 67	88 68	89 67	83 66	67 52	59 51	74 50	82 56	89 61	87 64	92 74	89 66	97 68	82 62	80 55	78 61	75 51	77 54	80.4 58.8		
BRITT	MAX MIN	66 38	63 52	62 38	75 38	82 50	80 59	79 59	79 65	77 50	77 47	80 46	82 56	85 60	84 66	83 60	82 60	65 45	54 46	72 45	78 50	84 54	85 60	88 57	88 56	89 65	89 49	74 42	68 54	75 41	75 48	77.3 51.9		
BURLINGTON WB APT	MAX MIN	79 52	81 60	66 48	73 43	78 50	83 57	85 62	86 69	84 64	78 57	80 52	74 60	85 60	79 66	86 64	90 67	68 52	59 48	68 54	74 52	85 59	86 66	87 74	88 68	93 72	85 62	78 54	83 58	76 50	79 56	79.9 58.5		
CARROLL	MAX MIN	83 48	74 57	66 44	75 43	86 49	88 59	84 59	82 67	82 54	86 51	88 48	92 61	88 72	88 63	87 62	75 66	67 50	67 46	77 54	84 60	89 62	89 75	97 67	87 73	88 57	86 49	79 56	80 49	77 53	80 53	82.9 56.8		
CASCADE	MAX MIN	78 50	75 59	66 48	76 40	77 52	83 56	84 57	85 69	83 65	74 57	81 45	70 51	85 61	85 68	83 65	86 67	71 48	60 45	72 58	75 55	85 54	84 63	85 72	81 65	89 62	84 56	78 52	81 55	76 48	74 55	78.9 56.6		
CASTANA 4E	MAX MIN	75 51	66 57	61 49	72 42	82 53	83 60	80 60	83 69	78 51	77 52	80 54	85 60	98 72	85 62	87 64	77 62	63 51	64 51	72 45	81 55	85 60	86 62	88 69	86 67	92 73	78 56	73 52	75 49	77 53	83 53	79.1 57.1		
CEDAR RAPIDS NO 1	MAX MIN	79 50	72 59	65 48	76 42	79 49	85 59	85 59	84 70	81 62	75 57	82 49	73 55	88 61	84 69	86 65	85 71	73 50	60 46	73 54	79 53	87 54	87 64	84 74	83 65	90 67	85 58	79 54	81 58	77 49	75 56	79.7 57.6		
CENTERVILLE	MAX MIN	76 52	77 61	66 52	73 41	76 49	80 59	83 60	83 68	83 62	78 55	80 51	83 62	85 64	83 65	87 66	88 70	76 55	66 50	70 55	78 54	85 61	85 68	85 74	88 66	93 74	91 58	79 53	84 60	77 49	80 58	80.6 59.0		
CHARITON 3E	MAX MIN	77 49	76 61	65 50	75 39	78 45	80 58	81 59	80 69	82 62	77 52	80 48	83 60	86 66	84 64	88 63	86 67	75 54	67 50	72 53	75 55	86 57	85 66	86 74	86 67	93 75	87 53	78 50	83 55	77 47	79 51	80.2 57.3		
CHARLES CITY	MAX MIN	77 49	69 50	63 44	77 43	82 52	85 61	83 60	76 69	78 59	74 54	80 51	76 58	83 68	85 66	81 53	76 48	67 50	55 48	73 56	78 54	88 65	85 66	87 65	81 67	90 75	75 56	78 54	74 49	75 55	73 55	77.5 56.1		
CLARINDA	MAX MIN	75 48	80 61	68 47	78 38	85 44	83 55	84 68	82 69	78 59	80 54	81 51	90 63	92 70	90 63	84 78	76 69	73 53	52 48	74 52	82 56	86 66	88 66	88 73	90 69	98 78	89 54	79 49	87 60	81 48	84 50	83.3 58.1		
CLARION	MAX MIN	77 48	70 57	62 41	76 40	83 46	85 58	83 60	75 68	78 55	75 54	82 45	82 60	88 65	85 65	86 65	82 49	65 50	58 48	72 57	80 57	86 65	85 66	90 64	82 69	92 58	82 46	79 60	73 48	75 50	72 50	78.7 56.1		
CLINTON NO 1	MAX MIN	81 51	77 58	70 54	78 43	79 52	86 62	88 59	88 67	89 67	82 57	83 49	73 56	85 60	85 68	85 65	92 69	75 49	59 45	73 53	74 55	85 55	86 64	86 76	81 67	93 65	87 62	80 55	83 58	78 52	78 52	81.3 58.2		
COLUMBUS JUNCTION	MAX MIN	80 50	78 60	65 42	75 40	79 47	84 58	86 62	87 70	83 64	80 49	79 49	74 58	86 62	86 66	89 65	78 73	61 52	71 48	78 54	88 56	86 65	85 75	86 66	91 70	89 60	78 56	81 56	76 52	76 56	80.6 57.8			
CORNING 1W	MAX MIN	75 48	74 57	66 47	74 39	80 47	82 56	82	79 67	77 58	77 54	80 51	87 62	91 75	83 63	91 70	86 68	72 53	75 50	72 50	79 56	85 62	87 63	87 73	86 71	96 56	80 52	78 58	81 48	79 54	87 54	80.9 58.0		
COUNCIL BLUFFS 5NE	MAX MIN	77 48	72 59	66 46	75 38	84 48	85 57	85 56	85 60	81 55	81 48	81 47	90 71	90 55	90 70	93 85	93 54	74 48	70 53	74 48	83 52	88 61	90 67	94 74	91 64	96 73	85 51	80 47	80 54	81 45	83 47	83.2 55.3		
CRESCO	MAX MIN	74 44	73 54	66 40	75 39	80 49	85 58	82 56	80 67	73 58	73 48	79 47	80 56	81 60	83 60	80 64	77 66	63 42	72 44	76 46	85 51	83 53	84 64	80 62	89 64	85 52	76 44	75 57	75 46	74 50	77.5 53.6			
CRESTON	MAX MIN	78 48	70 59	65 48	75 41	81 43	82 52	82 55	78 67	77 59	77 54	80 53	89 63	89 73	83 64	90 66	83 66	72 54	71 50	73 50	80 52	86 52	87 65	88 72	87 71	94 53	80 50	78 55	81 49	78 52	81 52	80.5 57.0		
CUSHING 3NE	MAX MIN	79 44																																

DAILY TEMPERATURES

Table 5-Continued

IOWA
JUNE 1960

Station	Day of month																															Average							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
DES MOINES WB CITY	MAX MIN	78 53	73 55	65 49	75 43	82 50	84 61	84 60	77 71	80 81	80 81	82 55	83 63	87 70	85 67	91 66	85 60	60 54	61 51	74 53	80 56	87 60	86 67	87 75	89 70	94 74	78 62	76 57	82 61	77 55	80 57	80.1 60.0							
DUBUQUE L AND D 11	MAX MIN	75 53	70 56	61 50	73 45	74 53	82 60	83 61	84 69	82 64	70 58	78 53	70 59	83 59	82 67	80 66	83 60	65 46	62 45	53 53	72 55	81 55	80 65	80 66	78 64	89 64	84 61	74 56	72 61	72 51	88 58	75.9 57.8							
DUBUQUE WB CITY	MAX MIN	78 54	75 56	64 51	75 45	78 53	84 61	85 63	86 71	83 64	73 57	81 53	72 59	84 61	85 69	82 67	85 56	66 48	59 45	71 55	76 56	86 57	84 67	84 68	79 65	90 61	80 56	78 56	79 60	76 53	72 58	78.3 58.5							
ELKADER	MAX MIN	76 44	80 41	69 40	80 35	80 43	79 40	91 43	88 66	82 80	83 48	78 45	88 48	89 57	85 62	80 61	70 44	65 42	75 49	80 43	92 48	85 62	88 63	86 61	86 61	94 57	86 50	80 46	80 52	80 40	76 50	81.8 50.1							
EMMETSBURG	MAX MIN	78 49	73 56	64 43	77 45	86 50	87 61	82 61	78 68	78 53																			78.1 55.6										
ESTHERVILLE	MAX MIN	78 47	69 53	66 40	78 45	89 53	89 61	83 60	81 68	78 49	79 51	66 47	88 61	94 67	80 64	87 63	81 59	64 58	60 52	78 50	86 55	92 68	88 65	94 70	89 62	94 70	86 58	79 48	79 57	78 47	76 52	81.6 56.7							
FAIRFIELD	MAX MIN	81 65	78 61	67 53	77 42	80 50	82 59	87 61	87 69	87 63																			80.3 58.6										
FAYETTE	MAX MIN	78 47		64 39	78 49	79 58	85 59	83 69	84 62	80 54	73 46	81 53	73 60	86 67	82 64	80 60	66 47	60 45	73 52	77 52	86 52	84 51	85 66	81 65	89 63	83 53	78 49	78 59	77 45	74 46	78.6 54.3								
FOREST CITY	MAX MIN	78 48	69 55	63 39	79 42	85 49	86 60	82 60	76 60	78 55	75 55	82 47	83 63	89 67	83 67	82 65	75 64	66 47	54 46	74 46	78 54	87 64	86 64	88 64	82 63	91 68	79 56	77 45	79 45	73 49	73 56	78.4 54.6							
FORT DODGE	MAX MIN	78 51	73 50	63 42	76 44	84 49	85 60	84 60	77 69	80 55	78 55	83 47	83 63	89 67	87 65	88 74	64 50	64 51	75 47	82 56	88 60	87 65	90 68	87 72	94 58	81 50	76 50	76 50	77 50	76 53	80.0 56.8								
GLENWOOD 2E	MAX MIN	76 49	74 62	68 48	75 38	83 47	84 61	83 62	81 60	79 56	78 49	79 50	88 55	90 74	87 65	84 72	89 68	74 57	74 54	74 49	82 55	87 61	88 70	93 75	89 66	97 74	89 59	82 47	82 52	85 45	85 49	82.8 57.8							
GREENFIELD	MAX MIN	79 48	70 45	69 43	74 41	80 47	81 51	77 62	79 63	76 52	76 55	79 54	85 62	85 71	83 64	86 68	83 65	79 50	62 51	71 50	74 53	85 65	88 68	88 66	90 71	93 73	83 52	75 58	81 53	75 49	76 55	79.4 56.8							
GRINNELL	MAX MIN	78 47	73 48	65 45	76 38	79 49	83 58	84 54	80 68	79 61	78 52	82 50	78 60	85 64	83 68	85 65	87 69	70 51	59 48	73 50	78 51	85 55	85 64	85 73	86 65	91 69	86 56	79 50	81 57	78 46	79 52	79.7 56.1							
GRUNDY CENTER 4WE	MAX MIN	78 46	70 57	63 43	75 43	80 46	84 58	83 57	78 67	77 60	75 53	79 50	78 59	85 61	83 64	85 66	78 62	64 50	59 45	73 50	78 51	86 53	83 63	86 67	80 69	86 57	77 48	77 57	75 47	75 53	78.0 55.6								
GUTHRIE CENTER	MAX MIN	76 50	67 59	62 47	73 42	80 49	82 49	81 59	76 69	77 55	76 53	80 53	83 62	85 73	82 64	85 65	83 66																						
GUTTENBERG L D 10	MAX MIN	78 51	75 56	65 47	77 42	78 53	85 61	84 60	84 69	82 63	72 56	81 50	79 58	82 67	84 66	82 67	83 47	71 45	66 53	73 54	77 55	87 65	85 66	84 66	83 64	90 62	86 59	78 53	78 60	77 47	74 47	79.3 56.7							
HAMPTON	MAX MIN	77 50	73 57	63 43	76 46	82 52	82 62	82 61	78 69	78 58	75 51	79 60	86 63	82 65	87 65	78 67	67 49	59 48	72 49	79 49	85 56	84 65	87 66	83 68	91 68	85 59	77 49	75 63	75 49	73 53	78.3 57.5								
HARLAN	MAX MIN	78 48	69 59	63 45	75 40	83 45	82 57	81 61	79 69	82 55	80 53	82 50	88 65	90 74	89 65	92 65	92 54	71 48	62 53	74 48	80 54	87 61	87 68	92 74	88 64	93 74	85 55	77 52	75 49	79 52	80 52	81.2 57.8							
HAWARDEN	MAX MIN	79 46	70 50	66 44	78 42	90 63	91 60	85 62	84 62	78 47	79 46	85 63	90 70	94 64	85 62	90 56	82 55	68 53	61 46	75 53	84 46	91 57	89 65	90 65	90 62	89 67	76 57	76 49	75 80	78 45	83 58	81.7 56.7							
IDA GROVE 4SSE	MAX MIN	80 46	70 57	65 42	76 41	86 49	86 57	83 56	84 68	81 50	81 51	86 61	87 61	92 63	85 65	85 63	82 63	67 50	62 52	74 44	83 53	80 60	88 62	90 67															80.8 55.3
INDEPENDENCE 2W	MAX MIN	78 48	73 56	64 46	75 43	77 48	82 57	83 58	84 68	80 62	75 52	81 50	78 56	85 60	84 67	85 64	83 69	75 49	63 45	71 51	76 52	85 53	84 68	86 65	83 66	89 66	87 50	78 58	78 48	75 53	75 53	79.1 56.1							
INDIANOLA	MAX MIN	80 53	75 56	67 49	78 46	82 55	85 59	87 59	79 69	79 61	80 55	84 53	82 60	88 68	85 65	89 66	88 72	73 53	61 50	74 52	80 55	88 53	87 68	87 74	89 65	95 74	81 62	78 52	85 64	80 54	81 56	81.6 59.3							
INWOOD 2W	MAX MIN	80 45	66 56	67 39	78 42	90 53	90 60	83 60	83 67	77 44	77 46	85 61	87 60	92 61	87 62	89 50	62 51	59 49	75 44	83 49	89 61	89 65	89 63	90 74	90 53	77 48	75 55	72 43	79 55	81 48	80.7 54.4								
IOWA CITY AP CAA	MAX MIN	80 47	75 59	65 44	78 41	84 47	87 57	87 57	83 70	77 59	83 54	74 48	86 53	83 63	87 65	88 63	66 52	60 49	74 54	78 52	87 63	86 63	85 63	84 75	84 68	92 69	81 54	84 57	77 52	78 53	80.3 56.6								
IOWA FALLS 1N	MAX MIN	78 50	68 58	63 54	75 42	82 48	85 59	84 59	75 68	77 57	76 53	78 48	80 59	86 61	85 68	86 65	75 58	61 48	58 48	72 48	78 54	86 64	84 66	86 67	91 74	74 56	76 48	76 59	76 47	75 51	77.7 56.3								
JEFFERSON	MAX MIN	77 50	71 50	64 44	73 42	82 46	82 53	81 59	78 69	78 60	77 52	80 49	82 60	86 71	84 64	86 67	84 67	70 50	60 47	72 54	79 59	85 61	85 74	89 67	85 73	93 56	81 50	76 56	80 54	75 49	77 49	79.1 57.0							
KEOKUK L D 19	MAX MIN	75 58	78 65	80 58	66 49	75 58	78 62	84 63	84 70	85 68	84 64	79 61	81 65	80 70	85 62	81 69	89 75	92 57	68 51	66 52	68 57	74 62	85 69	85 72	87 70	88 71	89 62	79 65	83 59	77 62	80.5 63.2								
KEOKUK WBO	MAX MIN	78 56	80 59	65 52	74 45	78 55	81 61	84 62	86 70	85 67	79 62	83 58	78 63	87 61	88 64	90 69	71 53	64 50	68 55	74 56	84 63	84 68	86 76	89 69	92 74	86 67	78 59	83 64	77 55	81 61	80.4 61.5								
KEOSAUQUA STATE PK	MAX MIN	77 54	78 61	65 54	73 44	77 51	81 58	84 60	84 63	81 57	75 52	78 52	83 60	82 65	84 66	86 70	75 56	60 50	66 56	75 54	84 61	83 65	83 75	85 68	90 72	88 63	76 57	85 59	81 52	83 56	79.3 59.7								
KNOXVILLE 2W	MAX MIN	78 53	75 61	65 50	76 42	80 50	84 60	85 61	81 70	80 62	78 55	82 60	88 66	86 65	88 72	88 53	75 49	59 52	72 55	79 61	87 67	85 67	87 74	89 67	94 72	91 61	78 54	82 61	78 51	78 56	81.0 59.4								
LAKE CITY	MAX MIN	79 48	67 56	62 41	75 41	85 49	86 59	83 59	79 68	80 52	80 49	83 51	84 60	90 72	86 64	84 64	67 49	60 49	74 45	82 54	88 59	86 62	90 69	87 70	95 72	81 52	78 50	75 47	77 51	78 51	80.4 56.1								
LAKE PARK	MAX MIN	77 47	69 54	66 42	76 46	87 53	86 61	81 60	85 67	78 48	78 48	83 50	86 62	92 66	78 66	79 60	61 48	59 44	75 56	80 58	88 66	85 66	87 66	85 61	90 54	75 50	75 47	74 57	77 47	76 51	79.1 55.7								
LAMONI APCA 4WNW	MAX MIN	78 49	76 56	66 44	73 42	79 47	83 54	84 58	78 68	80 61	76 55	81 53	89 63	91 66	84 63	90 69	84 55	75 50	71 52	78 55	86 60	86 65	87 72	85 71	93 65	78 56	78 52	82 55	76 50	80 54	80.4 57.4								
LE CLAIRE L D 14	MAX MIN	77 55	76 60	66 54	75 45	76 55	81 63	85 65	85 72	83 66	76 55	82 62	74 62	84 63	84 64	86 74	75 49	61 49	69 54	73 57	83 60	84 67	85 76	82 67	90 70	85 65	76 57	81 64	75 54	74 59	78.9 60.8								
LE MARS	MAX MIN	80 45	70 																																				

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Table S-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MASON CITY 3N	MAX MIN	77 48	68 56	64 39	75 42	83 50	85 62	83 61	74 68	77 56	75 51	82 46	81 59	88 62	83 66	83 65	75 59	66 46	53 47	73 48	77 53	86 51	85 66	85 64	80 62	90 67	78 56	79 46	72 60	75 46	72 52	77.5 55.1	
MASON CITY AP CAA	MAX MIN	76 49	68 46	62 38	77 41	83 51	85 62	83 60	73 67	78 54	75 51	81 46	81 58	88 62	83 65	83 64	74 54	65 46	54 48	72 48	77 55	86 52	84 65	85 65	81 62	89 63	74 55	74 45	73 50	75 48	73 51	77.1 54.0	
WILFORD 4NW	MAX MIN	78 44	69 54	65 40	76 43	88 50	87 59	81 59	85 68	77 46	77 47	82 49	87 61	91 61	88 63	87 64	82 60	49 49	50 42	42 54	54 56	87 56	85 64	88 65	84 62	92 70	80 53	78 49	74 56	75 44	78 50	81.6 54.4	
WILLERTON	MAX MIN	75 52	77 59	64 51	71 42	76 47	79 55	81 58	80 68	80 61	75 50	79 54	83 60	84 64	82 63	86 67	86 68	73 54	70 49	69 53	76 54	84 60	84 66	85 73	85 67	91 73	80 57	72 52	81 58	81 49	84 55	78.7 58.0	
MISSOURI VALLEY	MAX MIN	78 51	69 59	68 46	78 41	87 53	87 61	85 62	85 71	84 53	82 53	84 52	91 64	93 74	87 64	93 70	84 66	70 55	54 48	48 59	59 65	84 71	90 71	90 76	97 76	92 71	96 69	79 56	81 51	81 57	84 50	85 52	83.5 59.1
MOUNT Ayr 2N	MAX MIN	75 49	75 60	65 50	71 49	77 41	80 56	80 58	77 68	75 55	76 61	79 52	86 64	88 68	80 70	86 69	89 55	74 51	61 52	71 52	77 56	87 62	86 66	85 73	84 71	91 73	86 55	80 52	85 58	85 47	77 54	78 55	80.7 58.6
MOUNT PLEASANT	MAX MIN	78 48	77 61	66 53	77 42	77 49	83 55	86 60	87 69	85 62	77 55	83 50	76 60	87 61	80 65	86 66	89 71	74 53	61 47	44 44	71 52	87 58	86 63	85 74	84 66	91 71	86 61	80 61	85 60	85 50	77 55	78 55	80.7 58.1
MUSCATINE NO 1	MAX MIN	80 52	79 60	69 52	80 42	81 50	85 58	87 62	89 70	87 65	80 57	87 50	72 55	90 61	86 69	87 64	91 73	76 52	61 49	54 54	75 56	81 65	86 65	86 75	86 67	88 70	93 62	86 55	82 57	85 57	80 52	80 58	82.5 58.9
NEW HAMPTON	MAX MIN	77 42	69 48	63 36	78 35	81 48	84 51	82 52	77 62	77 55	73 47	80 42	74 45	86 54	82 60	81 57	77 60	66 39				77 45	86 49	83 50	85 58	79 64	87 59	75 49	77 45	77 62	74 56	74 53	77.9 50.8
NEWTON	MAX MIN	79 50	71 61	66 47	78 42	81 51	84 59	84 60	78 71	79 63	80 55	81 54	80 61	86 62	85 68	86 67	89 73	73 54	60 50	73 52	79 54	87 60	85 66	86 75	86 67	93 72	88 61	81 52	84 61	80 49	80 55	80 55	80.7 59.1
WORTHWOOD	MAX MIN	77 48	73 54	63 40	73 43	84 51	84 62	81 59	79 66	77 54	75 51	81 48	80 55	88 62	86 65	82 64	79 61	67 43	61 46	73 46	78 52	87 51	83 62	83 65	84 61	88 65	88 55	78 46	74 58	74 46	77 49	74 49	78.6 54.3
OAKLAND 2E	MAX MIN	75 46	70 59	60 43	70 34	80 44	82 56	82 60	78 67	78 54	77 49	78 47	86 64	91 75	88 62	90 70	86 67	73 55	71 48	73 48	89 52	85 57	87 68	90 72	88 67	96 74	87 51	79 45	81 53	80 42	81 47	81 47	81.0 56.0
OWA	MAX MIN	82 45	70 59	66 44	78 40	87 57	89 61	86 55	87 67	84 54	80 50	86 48	89 65	93 73	87 63	91 64	85 65	71 56	63 54	76 48	86 57	90 63	86 67	91 72	92 67	91 67	95 67	76 54	78 50	79 56	81 48	82 47	81.0 57.1
OSAGE	MAX MIN	76 48	70 56	62 41	77 44	82 51	84 60	81 59	78 68	77 58	73 52	80 49	76 58	83 62	82 67	80 65	79 62	65 45	54 47	73 49	78 54	87 54	83 51	86 63	86 66	83 66	89 66	77 47	73 60	76 47	73 53	77.3 55.2	
OSCEOLA	MAX MIN	79 52	72 59	66 48	77 43	81 48	84 57	84 59	80 69	79 61	79 56	83 56	84 61	88 68	85 64	88 69	86 70	75 52	70 49	72 49	80 55	88 60	86 66	85 73	87 72	86 60	88 55	80 60	86 58	85 51	82 56	81.7 59.0	
OSKALOOSA	MAX MIN	78 50	77 60	65 51	75 40	79 49	82 58	84 60	85 70	81 62	77 56	81 49	80 61	88 65	82 67	89 66	84 72	59 49	71 54	78 54	86 57	85 65	87 75	86 65	87 65	92 72	86 58	79 55	83 58	76 49	77 55	80.1 58.5	
OTTUMWA AP CAA	MAX MIN	78 55	75 58	67 50	75 44	78 52	83 59	85 61	85 71	84 63	79 59	79 56	80 63	85 65	78 67	88 63	88 54	60 50	55 49	57 53	78 53	86 58	85 63	87 64	88 69	86 72	93 62	84 56	77 51	84 54	78 48	80 52	80.0 59.9
PERRY 2SE	MAX MIN	78 47	70 59	63 46	77 40	83 46	84 58	82 58	78 68	80 57	78 53	80 48	82 60	86 67	82 64	88 66	83 68	68 52	60 49	74 53	81 58	87 63	84 63	88 74	88 69	96 72	84 56	76 51	78 54	77 48	77 52	79.7 56.9	
POCAHONTAS	MAX MIN	79 46	71 56	62 44	76 45	85 49	86 60	83 58	79 68	79 61	79 53	84 46	86 60	89 72	85 65	86 65	75 58	58 50	69 51	74 45	83 55	87 60	86 64	89 67	86 66	94 71	77 56	76 47	74 56	77 49	76 52	79.7 56.2	
PRINGHAR	MAX MIN	78 47	76 58	65 42	76 42	89 51	88 59	85 60	87 68	88 48	77 48	85 58	85 63	93 71	90 64	87 65	84 61	66 50	57 43	74 50	82 55	90 60	87 64	87 65	87 65	92 72	86 55	75 51	74 58	77 45	76 54	81.4 56.4	
RED OAK	MAX MIN	74 50	71 51	67 43	74 35	81 46	82 46	82 60	79 69	74 56	78 49	79 49	88 64	89 76	86 65	92 72	87 66	75 57	76 53	74 52	80 53	85 60	87 69	89 74	88 68	95 74	80 51	80 47	81 55	81 43	82 48	81.2 56.7	
ROCK RAPIDS	MAX MIN	78 50	68 55	65 43	76 46	89 54	88 60	81 62	82 70	77 49	73 49	83 47	83 59	88 68	83 66	86 67	85 62	63 51	57 46	73 45	80 57	88 60	87 65	87 64	90 63	90 74	79 58	74 48	73 57	76 47	76 52	79.3 56.7	
ROCKWELL CITY	MAX MIN	78 46	70 58	63 43	76 43	84 49	86 61	83 58	79 69	80 53	79 51	84 50	82 61	90 71	86 65	86 65	82 50	69 45	62 45	74 45	81 60	87 63	86 69	90 69	86 71	94 56	80 56	77 50	77 56	77 47	79 51	80.2 56.3	
SAC CITY	MAX MIN	80 48	71 48	63 45	76 46	87 51	89 61	88 60	82 69	80 53	79 54	87 52	85 62	92 73	85 65	88 67	82 64	80 52	75 46	84 56	90 62	89 64	89 70	89 70	95 74	75 59	77 54	74 58	74 51	77 56	77 56	81.0 58.0	
SANBORN	MAX MIN	77 46	66 56	64 41	74 44	87 50	88 58	81 59	84 68	75 47	77 50	84 55	85 61	92 80	86 60	85 65	81 61	62 53	56 50	73 44	82 53	88 60	87 64	88 65	89 62	88 73	75 57	75 51	73 55	76 48	75 51	76.0 56.2	
SARATOGA 2E	MAX MIN	74 42	67 44	68 38	75 40	79 46	82 57	80 56	75 66	73 59	70 49	78 42	72 53	81 61	79 63	80 65	79 63	66 42	60 45	70 49	75 49	85 47	82 63	85 65	83 61	87 64	85 50	83 43	74 56	73 45	76 49	76 49	78.0 52.4
SHELDON	MAX MIN	78 42	69 56	65 42	75 41	88 51	86 58	81 60	83 69	76 48	77 50	83 49	83 61	91 70	84 64	87 66	84 62	63 50	57 42	72 55	80 59	87 64	85 65	86 64	86 64	90 73	100 65	88 56	80 51	83 61	82 50	85 52	84.0 59.7
SHENANDOAH	MAX MIN	77 53	76 62	69 47	74 42	84 47	84 59	85 62	80 69	79 58	79 54	83 53	91 65	92 75	90 63	95 74	91 70	75 58	55 53	53 59	83 63	89 69	90 75	92 69	90 75	100 70	88 65	80 56	83 51	83 61	82 50	85 52	79.3 53.6
SIBLEY	MAX MIN	75 43	72 53	64 41	74 37	86 51	85 58	84 59	81 68	78 48	76 46	82 44	82 61	90 65	89 65	85 64	85 61	46 46	52 40	40 53	78 57	87 65	87 63	87 63	86 61	90 68	85 53	74 42	74 54	77 37	76 52	79.3 53.6	
SIDNEY	MAX MIN	75 53	75 62	68 47	75 44	82 49	85 59	85 59	81 68	79 65	80 57	83 60	90 67	93 73	81 63	94 73	88 72	76 53	80 50	75 50	82 68	88 72	90 74	92 74	92 67	92 74	98 62	90 54	82 58	82 56	83 58	85 58	84.0 61.6
SIGOURNEY	MAX MIN	79 51	72 54	65 51	77 43	87 50	86 51	81 61	87 63	86 59	84 62	86 66	86 61	86 71	84 66	84 71	68 72	78 66	86 63	77 66	86 69	86 73	85 78	86 71	88 78	91 78	83 66	83 64	83 70	76 60	81 61	81.9 63.6	
SIoux CITY WB APT	MAX MIN	79 42	68 50	64 45	76 42	89 53	88 61	86 62	87 59	80 51	80 53	83 49	90 63	94 74	81 64	89 63	73 57	59 47	62 50	76 47	86 57												

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Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
TRIPOLI	MAX	79	69	64	78	80	85	83	82	77	74	80	77	84	85	82	80	69	63	74	77	87	84	86	83	89	87	77	79	77	74	78.6	
	MIN	56	48	43	42	49	59	60	68	56	53	49	57	61	68	65	67	49	46	51	53	54	65	66	66	67	58	53	49	48	55	58.0	
VINTON	MAX	79	73	65	76	80	85	85		78	76	82	78	84	84	85	83	74	63	72	88	86	86	86							79.5		
	MIN	48	59	47	41	46	59	69		62	51	42	55	62	70	65	70	51	52	56	53	52	64	74							56.7		
WASHINGTON	MAX	80	76	66	76	79	83	85	86	85	79	82	75	86	82	85	91	77	62	72	78	87	85	86	89	91	87	79	83	78	78	80.9	
	MIN	49	60	53	41	49	57	60	69	63	55	53	58	62	66	66	73	52	48	55	53	57	63	75	65	70	60	55	58	52	56	58.4	
WAUKEE	MAX	78	73	65	75	81	84	84	78	78	73	82	83	88	86	86	84	74	61	66	79	87	85	87	87	95	88	86	82	76	82	80.4	
	MIN	53	62	49	44	58	62	62	72	62	48	55	62	70	67	66	72	54	51	46	56	60	67	75	69	74	68	64	61	51	56	60.5	
WAUON	MAX	75	69	63	77	77	83	80	82	82	69	79	71	82	81	79	79	64	60	72	74	84	80	83	78	86	81	77	76	75	69	76.2	
	MIN	45	54	44	45	49	60	62	70	59	50	50	54	59	64	65	54	42	44	50	49	51	61	61	63	62	53	47	56	46	52	54.0	
WEBSTER CITY	MAX	79	72	63	78	85	86	84	78	81	78	83	83	88	87	90	85	68	61	75	83	90	82	90	88	95	83	79	71	77	76	80.6	
	MIN	48	48	41	40	43	59	58	68	56	52	46	61	67	66	66	68	50	50	48	53	54	63	67	60	70	56	48	59	47	51	55.4	
WILLIAMSBURG	MAX	78	75	64	76	78	83	83	84	80	77	79	75	84	80	85	85	75	60	71	77	85	84	85	82	89	85	76	79	76	74	78.8	
	MIN	52	60	50	43	50	57	59	69	65	59	53	59	63	67	65	73	50	48	54	53	57	64	74	64	70	62	54	59	51	51	58.5	
WINTERSET	MAX	78	74	67	78	81	84	84	78	80	81	82	85	88	86	88	88	73	66	76	80	88	85	87	88	94	88	79	86	80	82	81.8	
	MIN	52	60	47	41	48	62	58	69	60	52	53	62	69	65	67	70	53	50	51	59	59	67	74	72	74	57	50	58	49	54	58.7	
WOODWARD 7N	MAX	78	73	62	74	82	83	82	75	80	78	79	81	85	83	87	80	65	60	73	79	85	83	88	86	94	78	76	77	76	78.6		
	MIN	49	57	45	42	49	60	60	70	59	53	52	62	67	66	67	64	53	51	50	55	60	63	75	66	70	58	52	58	50	54	57.9	

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7 AM	57	63	51	52	56	64	66	70	65	60	62	66	70	72	73	73	62	56	55	59	65	68	73	73	74	68	64	66	63	65	64.4	
	12 M	78	66	65	76	77	84	76	71	77	78	85	64	78	84	74	89	63	60	74	68	86	76	82	73	87	84	87	84	83	84	77.1	
	7 PM	73	62	62	70	76	79	76	71	75	73	80	76	85	80	83	80	64	59	71	71	83	80	82	81	87	81	78	79	81	82	76.0	
2 1/4 Inches	7 AM	56	64	52	51	55	63	65	69	65	59	60	66	70	71	71	73	63	56	56	60	63	68	72	73	73	67	63	66	62	64	63.9	
	12 M	76	66	65	74	74	80	74	70	74	74	82	65	75	81	74	87	64	60	72	67	83	74	80	72	84	84	85	84	84	84	75.6	
	7 PM	72	63	62	70	75	78	75	70	75	73	79	75	83	80	82	80	64	60	71	71	81	78	80	78	85	80	77	78	80	81	75.2	
4 Inches	7 AM	58	64	55	53	57	63	66	69	66	62	63	68	70	72	71	73	67	59	58	61	63	69	72	74	73	69	66	68	65	66	65.3	
	12 M	66	64	62	64	66	72	70	70	71	69	74	66	71	74	74	81	66	61	66	64	73	70	75	72	79	76	76	75	74	76	70.6	
	7 PM	72	64	64	69	73	78	75	70	76	75	80	73	82	81	81	82	66	61	72	72	82	77	80	80	84	81	78	80	82	82	75.7	
8 Inches	7 AM	61	65	59	57	60	64	68	68	67	65	66	69	69	72	72	73	70	63	60	63	64	70	71	73	72	72	70	70	69	70	67.1	
	12 M	61	64	59	58	61	65	67	68	67	66	67	68	69	71	72	74	68	62	62	63	66	65	72	72	73	72	70	70	70	70	67.1	
	7 PM	67	64	62	65	68	73	70	68	72	72	74	69	75	77	75	78	67	62	68	67	74	72	74	75	78	76	76	77	77	78	71.7	
20 Inches	7 AM	58	59	59	58	58	59	61	62	62	62	63	63	63	64	66	66	66	64	62	62	62	64	65	66	66	68	68	67	68	68	63.3	
	12 M	58	59	59	58	58	60	61	62	62	62	63	63	64	65	66	66	66	64	62	62	63	64	65	66	67	68	68	68	68	68	63.5	
	7 PM	58	59	58	58	58	60	61	62	62	62	62	63	64	65	66	66	66	63	62	62	63	64	65	66	67	67	67	67	67	68	63.3	
40 Inches	7 PM	53	53	53	54	54	54	54	55	55	56	56	57	57	58	58	58	58	58	59	59	59	59	59	60	60	60	61	61	61	62	57.4	
	7 PM	50	50	50	50	51	51	51	51	52	52	52	52	53	53	53	54	53	53	54	54	55	55	55	55	56	56	56	56	56	56	53.2	
4 Feet Above Ground	7 AM	61	62	50	55	57	67	67	72	61	62	63	64	71	70	74	74	52	54	51	60	67	67	77	70	77	69	61	63	60	63	64.0	
	12 M	74	65	61	71	76	80	80	74	72	72	76	65	78	80	75	75	54	59	68	71	84	79	85	76	88	73	73	78	72	72	73.5	
	7 PM	68	60	57	62	73	73	77	71	73	65	70	78	81	72	83	69	57	56	64	68	76	81	80	79	84	71	67	69	70	69	70.8	

COUNCIL BLUFFS, IOWA

1 Inch	12 M	75	66	72	68	76	84	81	84	92	89	87	83	93	81	86	80	66	65	77	84	88	89	92	87	90	82	84	88	90	90	82.4
2 1/4 Inches	12 M	76	67	69	70	76	82	80	84	89	85	85	82	88	80	84	77	68	66	74	82	85	87	90	85	96	85	82	87	90	88	81.3
4 Inches	12 M	75	67	65	69	74	78	75	79	81	78	78	76	85	78	83	76	69	68	68	79	80	87	85	82	91	81	78	80	82	81	77.6
8 Inches	12 M	70	67	63	67	69	70	70	74	74	72	73	72	78	75	78	75	71	68	66	72	74	81	78	77	82	77	74	75	75	70	72.9
20 Inches	12 M	62	63	63	62	62	63	65	66	66	67	68	68	69	70	70	70	70	67	67	67	68	70	71	72	73	73	73	72	72	72	68.0
40 Inches	12 M	57	57	58	58	58	59	59	60	60	60	61	61	62	62	63	63	63	63	63	63	63	64	64	64	65	65	65	66	66	66	61.9

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
DELAYED DATA

Table 2

Station	Temperature								Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
							Max. 90° or above	Min. 32° or below					Total	Max. depth on ground	Date	.01 or more	.25 or more	1.00 or more
July 1949																		
NORTHWEST DIVISION Emmetsburg	75.4		95	3+	52	30	9	0	6.28		2.44	26	0	0		5	4	3
Sioux Rapids	76.3	2.4	99	25	49	30	18	0	2.59	-.91	1.10	26	0	0		5	3	1
SOUTHEAST DIVISION Washington																		
	77.9	2.2	96	1+	58	31	14	0	4.18	.50	1.21	24	0	0		9	6	2
October 1949																		
NORTHWEST DIVISION Frimghar	53.7	2.9	82	8	14	31	0	5	2.18	.58	1.17	10	0	0		5	3	1
WEST CENTRAL DIVISION Ida Grove 4 S	55.1	3.1	86	8	16	31	0	4	2.08	.18	1.10	20	0	0		3	3	1
SOUTHWEST DIVISION Greenfield	55.4 M	1.7	86	7	15	31	0	6	2.38	.04	.75	8	0	0		8	4	0
November 1949																		
NORTHWEST DIVISION Sioux Rapids	38.4	3.5			14	3+	0	21	T	-1.50	T	20+	T	0		0	0	0
Spencer 1 N	38.3	4.2	76	10	14	3+	0	27	.01	-1.38	.01	24	T	0		1	0	0
NORTHEAST DIVISION Delaware 2 W	39.0 M	3.6							.57	-1.27	.35	12	0	0		2	1	0
WEST CENTRAL DIVISION Audubon 2 S	41.6	4.5	74	7	14	2	0	15	.03	-1.56	.03	24	0	0		1	0	0
Ida Grove 4 S	42.5	6.0	75	7+	16	18+	0	18	.08	-1.32	.08	12	0	0		1	0	0
December 1949																		
NORTHWEST DIVISION Hawarden	24.5	1.6	54	11	- 5	14	0	31	.78	.08	.35	11	5.5	4	11+	6	2	0
SOUTH CENTRAL DIVISION Lamoni AP CAA	29.2		61	11	- 3	23	0	28	1.82		.91	11	.9			6	3	0
SOUTHEAST DIVISION Columbus Junction	31.7	4.3	68	11	1	23	0	25	3.24	-1.81	.98	20	2.0	2	21+	5	4	0
January 1950																		
SOUTH CENTRAL DIVISION Afton	21.8	-.1	52	2	-10	26	0	29	.45	-.50	.45	13	0	0		1	1	0
SOUTHEAST DIVISION Columbus Junction	26.3	3.0	60	24	0	4+	0	26	2.18	.83	1.10	13	1.0	1	13	9	3	1
February 1950																		
SOUTHEAST DIVISION Keokuk WB City	29.5 M	.7	49	5	- 3	26	0	25	1.30	.02	.40	13	1.2	1	23+	11	3	0
April 1950																		
NORTHEAST DIVISION Decorah	41.5		72	17	17	6	0	18	4.42		1.60	24	T	T	12	7	5	1
Guttenburg Lock & Dam 10	42.3	-6.7	72	16+	16	13	0	20	3.30		1.14	24	0	0		10	5	1
May 1950																		
NORTHWEST DIVISION Emmetsburg	57.4		88	23	27	1	0	1	6.16		1.60	8	0	0		12	7	3
Hawarden	57.3	-2.1	94	23	25	1	1	1	3.39	-.11	.86	8	0	T	1+	15	4	0
NORTHEAST DIVISION Decorah	59.3		84	23+	29	1	0	1	5.27		1.68	9	0	0		11	3	3
Guttenburg Lock & Dam 10	59.7	-1.1	89	23	28	1	0	1	3.55	-.50	1.50	25	0	0		10	4	1
WEST CENTRAL DIVISION Ida Grove 4 SSE	58.7	-1.3	85	4	28	1	0	2	4.30	.65	1.15	8				11	7	1
CENTRAL DIVISION Woodward 7 N	60.4	-.1	86	23	30	1	0	1	8.06	4.01	2.51	5	T	0		13	7	3
SOUTHWEST DIVISION Norwich 2 E SCS Farm	62.2	.6	91	4	32	1	1	1	7.02	2.92	3.85	9	0	0		11	7	1
SOUTHEAST DIVISION Columbus Junction	62.5	.7	89	5+	32	1	0	1	1.83	-2.13	1.22	9	0	0		5	2	1
June 1950																		
NORTHWEST DIVISION Cherokee	67.5	-1.1	91	13+	42	3+	3	0	4.13	-.07	2.55	18	0	0		6	4	1
NORTHEAST DIVISION Decorah	68.2		91	25	40	4	1	0	7.43		2.98	13	0	0		12	7	2
Independence 2 W	67.6	-.7	89	25	43	4	0	0	10.51	6.03	3.00	2	0	0		9	6	3
CENTRAL DIVISION Ames 3 SW	68.2	-1.8	93	25	41	4	1	0	7.55	3.21	2.67	18	0	0		8	6	2
EAST CENTRAL DIVISION Iowa City	68.9	-1.0	89	25	41	4	0	0	5.98	1.23	2.06	18	0	0		12	7	1
SOUTHWEST DIVISION Norwich 2 E SCS Farm	69.8		97	25	39	2	2	0	4.29	-.73	1.47	14	0	0		8	3	3

See reference notes following Station Index.

HOURLY PRECIPITATION

IOWA
DELAYED DATA

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
February 1950																											
Iowa City # 3																											
Iowa City # 3	*	*	*	*	*	*	*	*	*	*	*	*													.25		
Iowa City # 3																											
Iowa City # 3	*	*	*	*	*	.23																			.23		
June 1950																											
Ames 3 SW									.54	.26	.01	.02													.83		
Ames 3 SW																					.02	.49	.06	.36	.11	1.04	
Ames 3 SW	.49	.86	.09																							1.44	
Ames 3 SW									.01	.04	.12	.09	.08	.01												.35	
Ames 3 SW											.01															.01	
Ames 3 SW																					.01		.01		.02	.06	.10
Ames 3 SW	.83	1.03	.22	.16	.02	.12	.08	.01	.01								.01	.06	.01	.01						2.57	
Ames 3 SW										.04	.01															.05	
Ames 3 SW									.11	.08	.17	.09	.01	.01												.47	
Ames 3 SW										.02	.09	.15	.42	.01												.69	

EVAPORATION AND WIND

Table 6

Station		Day of month																															Total or ave
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
May 1950	EVAP	.13	.09	.08	.18	.33	.26	.28	.09	.27	.21	.24	.29	.18	.24	.26	.32	.20	.28	.27	.34	.09	.21	.23	.20	.24	.12	.07	.05	.09	.11	.37	8.32
Norwich 2 E SCS Farm	WIND	49	127	63	137	323	150	161	130	217	48	34	78	31	37	51	103	15	80	138	27	110	38	117	53	52	61	86	8	52	85	85	2746
June 1950	EVAP	.34	.10	.17	.26	.35	.38	.38	.14	.52	.32	.36	.08	.25	.25	.14	.27	.16	.23	.16	.17	.32	.22	.27	.24	.36	.37	.23	.26	.29	.26	7.85	
Ames 3 SW	WIND	94	73	30	52	127	146	145	148	61	33	36	82	129	53	66	39	92	81	40	96	88	118	152	66	110	60	12	36	36	33	2334	
Cherokee	EVAP	.24	.26	.13	.36	.38	.37	.26	.30	.36	.24	.30	.24	.31	.21	.14	.21	.09	.04	.26	.24	.38	.48	.20	.31	.39	.35	.17	.28	.28	.23	8.01	
	WIND	76	88	26	63	134	134	133	82	51	60	28	77	60	39	29	68	28	33	36	64	95	133	28	17	75	104	24	58	51	8	1882	
Iowa City	EVAP	.24	.18	.24	.19	.29	.27	.32	.27	.23	.37	.23	.14	.29	.25	.31	.30	.20	.20	.09	.13	.23	.25	.15	.13	.33	.36	.27	.30	.31	.32	7.39	
	WIND	48	59	102	40	49	43	59	88	63	91	18	60	88	46	50	74	74	54	52	41	36	117	49	44	76	85	52	51	69	69	1847	
Norwich 2 E SCS Farm	EVAP	.30	.22	.12	.28	.34	.47	.24	.13	.48	.33	.25	.19	.30	-	.32	.39	.11	.08	.22	.13	.29	.32	.34	.31	.44	.42	.26	.37	.29	.31	8.53B	
	WIND	93	120	46	47	80	112	143	127	50	52	39	134	130	99	99	75	22	110	31	29	35	85	110	72	76	93	24	63	30	22	2248	

See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
DELAYED DATA

Table 5

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
July 1949																																		
Emmetsburg	MAX	86	93	95	93	92	95	92	87	84	83	82	87	85	78	84	86	88	88	83	82	83	84	86	92	94	89	85	90	88	75	82	86.8	
	MIN	71	64	73	73	69	70	72	70	70	57	58	61	63	58	55	58	57	66	58	60	68	55	59	71	71	67	69	71	59	52	55	63.9	
Sioux Rapids	MAX	93	97	98	97	96	97	93	93	93	87	85	91	87	81	88	90	92	91	89	88	89	86	90	98	99	88	90	93	86	79	88	90.7	
	MIN	70	66	72	70	68	66	73	71	69	52	55	53	58	56	50	53	56	52	53	63	60	60	73	71	69	70	71	59	49	53	61.8		
Washington	MAX	96	96	95	94	90	92	88	90	91	84	85	85	89	80	86	89	88	88	87	81	91	84	90	90	91	91	86	93	83	81	81	88.2	
	MIN	74	68	72	74	72	72	72	71	73	61	60	65	62	66	60	60	65	68	68	65	72	60	63	71	71	74	74	75	68	59	58	67.5	
October 1949																																		
Greenfield	MAX	72	74	81	70	69	74	86	84	79	75	56	70	74	61	61	74	75	70	72	70	62	59	61	57	55	67	69	53	54	44	67.6		
	MIN	40	50	61	51	53	59	62	64	52	53	45	37	43	39	41	42	39	49	56	59	38	28	29	29	24	23	41	36	33	15	43.2		
Ida Grove 4 S	MAX	75	72	83	69	75	71	85	86	67	70	61	73	76	66	70	75	77	70	73	62	47	64	55	47	50	56	68	72	66	55	47	67.2	
	MIN	49	52	53	43	58	60	59	56	48	55	41	38	45	49	38	36	47	51	54	46	35	29	36	24	36	24	39	36	46	33	16	43.0	
Primghar	MAX	72	70	80	67	74	71	74	82	65	72	65	71	71	64	66	74	76	70	67	64	43	63	59	43	43	55	66	69	61	56	47	65.2	
	MIN	49	51	49	41	56	60	55	48	45	51	44	38	48	45	39	47	45	50	53	40	34	28	34	26	36	25	39	40	47	31	14	42.2	
November 1949																																		
Audubon 2 S	MAX	58	45	52	60	58	67	74	72	65	67	68	60	60	49	45	43	40	43	65	52	34	49	40	41	40	59	47	59	53	52	53.8		
	MIN	35	14	24	33	34	36	35	40	44	39	42	35	29	33	25	34	25	16	35	22	16	16	23	25	21	26	25	36	33	29	29.3		
Ida Grove 4 S	MAX	65	52	60	51	52	70	75	66	66	75	66	58	61	50	48	43	42	46	65	50	33	53	45	41	41	58	50	61	54	52	55.0		
	MIN	38	29	18	31	21	33	36	31	42	43	42	43	34	34	25	32	24	16	38	26	18	16	22	26	22	31	24	37	35	29	29.8		
Delaware 2 W	MAX	62	51	44	45	52	66	72	65	66	69	55	58	52	48	36	40	40	33															49.8
	MIN	23	29	14	27	17	26	31	31	44	44	42	42	34	24	28	22	30	30															28.2
Sioux Rapids	MAX	43	52	60	56	64	64		63	62		54	50	47	47	46	41	40	46	59	44	38	53	40	35	35	52	52	60	53	51	50.3		
	MIN	36	19	14	24	14	36	27	25	39	35	39	34	32	34	25	30	24	25	35	25	16	17	22	18	16	25	20	32	33	22	26.4		
Spencer 1 N	MAX	63	41	60	44	54	68	72	62	66	76	62	51	53	44	46	40	37	46	62	41	30	53	35	38	35	53	45	59	51	52	51.3		
	MIN	39	16	14	19	14	32	26	24	36	32	38	30	29	28	24	32	22	23	32	23	17	18	22	16	16	25	24	32	28	27	25.3		
December 1949																																		
Columbus Junction	MAX	42	47	61	54	45	52	38	28	27	40	68	53	29	21	35	44	50	44	45	52	40	22	22	30	40	38	41	48	43	51	44	41.7	
	MIN	29	17	34	28	22	29	22	9	10	25	39	14	12	4	3	21	32	36	36	37	19	9	1	7	29	16	17	20	25	27	40	21.6	
Hawarden	MAX	47	49	48	45	44	50	38	23	30	42	54	15	18	20	33	44	30	37	39	36	21	23	20	39	41	37	39	47	37	45	40	36.5	
	MIN	25	26	30	20	12	18	15	2	12	30	15	3	-1	-5	2	15	20	10	26	15	4	2	0	2	10	0	8	15	9	24	22	12.5	
Lamoni AP CAA	MAX	45	49	59	45	45	49	39	23	30	55	61	25	28	26	40	46	47	41	45	44	19	19	29	38	39	26	40	48	49	50	45	40.1	
	MIN	24	22	33	26	21	33	14	8	19	30	14	9	9	5	12	23	27	30	30	19	14	0	-3	2	14	4	14	22	23	31	38	18.3	
January 1950																																		
Afton	MAX	46	52	34	8	17	31	30	43	42	44	34	46	43	33	45	31	41	14	29	42	44	45	36	40	17	7	31	43	39	4	16	33.1	
	MIN	35	34	-3	-8	-4	6	14	23	27	12	9	30	15	2	5	-1	12	1	5	14	25	25	22	15	1	-10	4	21	1	-1	-8	10.4	
Columbus Junction	MAX	49	56	55	12	16	26	27	46	48	43	36	41	50	42	33	27	42	22	29	41	36	40	40	60	41	17	32	48	38	12	20	36.3	
	MIN	38	40	10	0	0	13	15	17	32	17	11	30	36	9	12	4	17	3	4	13	26	33	32	33	15	1	1	24	9	2	5	16.2	
February 1950																																		
Keokuk WB City	MAX	26	28	45	44	49	45	40	36	45	48	40	37	33	32	31	38	47	43	39	47	47	33	42	17	13	26	45	47			38.0		
	MIN	7	13	17	27	32	33	33	33	29	32	28	32	32	25	22	17	20	15	11	21	24	20	17	3	0	-3	16	29			20.9		
April 1950																																		
Decorah	MAX	53	66	55	39	40	47	61	59	37	61	58	41	38	50	60	71	72	70	51	46	54	68	65	56	42	37	36	48	52	47	52.7		
	MIN	32	27	33	33	29	17	36	25	27	31	30	20	19	19	22	36	37	46	35	28	21	30	38	40	35	31	29	30	38	34	30.3		
Guttenberg Lock & Dam 10	MAX	56	63	55	46	46	47	65	56	35	65	51	40	42	48	62	72	72	67	67	49	55	72	63	52	45	41	42	49	53	48	54.1		
	MIN	29	28	31	32	26	19	35	23	27	31	29	21	16	20	24	36	42	44	34	28	31	32	43	39	39	30	27	29	37	33	30.5		
May 1950																																		
Columbus Junction	MAX	56	66	75	83	89	75	66	63	66	65	72	76	79	81	75	73	78	79	71	77	68	78	87	89	85	66	64	72	78	75	74	74.2	
	MIN	32	36	53	62	53	48	45	40	50	45	48	47	52	51	51	49	44	52	52	56	53	50	56	58	64	55	53	55	55	61	50	60.8	
Decorah	MAX	50	57	73	76	76	65	62	56	59	60	72	79	80	79	72	69	71	73	70	64	63	78	84	84	74	68	71	71	79	78	74	70.5	
	MIN	29	34	48	59	50	40	41	39	46	41	35	51	47	46	45	48	44	48	51	56	56	46	52	68	56	53	46	56	52	60	47	48.1	
Emmetsburg	MAX	55	55	62	84	75	62	54	49	58	65	73	78	75	72	73	65	74	67	66	71	64	80	88	85	65	67	67	66	73	78	72	69.0	
	MIN	27	38	46	46	38	38	33	37	41	38	42	50	45	51	46	49	43	47	48	43	51	47	60	61	51	50	47	49	53	57	48	45.8	
Guttenberg Lock & Dam 10	MAX	60	58	70	74	75	68	69	51	56	57	66	82	82	83	72	64	74	71	72	71	70	85	89	88	73	69	69	68	76	78	76	71.5	
	MIN	28	36	45	52	45	45	38	37	48	44	45	50	51	53	48	45	44	47	48	54	52	49	51	60	57	54	47	52	52	58	49	47.9	
Hawarden	MAX	55	53	60	60	60	60	53	59	60	65	75	77	73	75	70	79	75	69	70	73	87	94	84	55	72	68	70	70	75	72	69.1		
	MIN	25	40	40	46	35	39	33	37	38	37	42	50	44	47	41	52	45	52	50	40	50	56	63	55	48	43	53	52	58	47	45.5		
Ida Grove 4 SSE	MAX	55	60	61	85	65	66	60	55	61	65	73	74	78	82	76	68	82																

STATION INDEX

IOWA
JUNE 1950

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	8	41 02	94 12	1200	6P	6P	CLOSED	3-23-50	Morse 4 mi. SSW	5742	Johnson	10	41 41	91 28			L. J. Fuhrmeister	3 4	
Akron	0088	Plymouth	1	42 49	96 33	1153	6P	6P	Orian C. Moore	3	Mount Apr 2 mi. N	5769	Ringgold	9	40 44	94 14	1214	6P	6P	H. L. Cornelson	2 3 4 5
Albia	0112	Monroe	6	41 02	92 48	949	8P	7P	Arthur L. Freed	2 3 5	Mount Pleasant	5796	Henry	21	40 57	91 32	730	6P	6P	A. M. Patterson	3 4
Algona	0133	Kossuth	6	43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	Noville	5823	Woodbury	11	42 29	96 04		7P	7P	Einar W. Widmark	2 3 4 5
Allerton	0149	Wayne	9	40 42	93 23				CLOSED	6-27-50	Juscantine No. 1	5837	Muscatine	14	41 26	91 03	680	7P	7P	F. J. Bauerbach	3
Allison	0157	Butler	4	42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Muscatine No. 2	5842	Muscatine	14	41 25	91 03	545	7A	7A	Robert B. Hagy	3
Alton	0173	Buena Vista	20	42 40	95 18	1513	7P	7P	F. Edna Allen	2 3 5	Muscatine 6 mi. N	5847	Muscatine	14	41 30	91 03			CLOSED	2-23-50	
Alva	0181	Sioux	7	42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Newhampton	5952	Chickasaw	27	43 04	92 19	1158	7P	7P	William A. Cory	3
Ames 3 mi. SW	0205	Story	21	42 00	93 39	1004	7P	7P	Charles F. Brown	2 3 4 5 6 7	Newton	5992	Jasper	21	41 42	93 04	950	7P	7P	Loddy Hrdlicka	2 3 5
Anamosa 1 mi. NW	0213	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	North English	6078	Iowa	4	41 29	92 05	789			Ernest E. Andrew	3 4
Atlantic 1 mi. E	0364	Cass	16	41 24	94 59	1110	8P	7A	Roy L. Fancolly	2 3 5	Northwood	6103	Worth	4	43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 4 5 6 7
Atlantic AP CAA	0369	Cass	16	41 24	95 02	1152	MID	MID	Airways Com. Sta.	2 3 4 5 7	Norwich	6119	Page	22	40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 5
Audubon 2 mi. S	0385	Audubon	10	43 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16	41 19	95 23	1150	6P	6P	Ward D. Reineke	3 4
Augusta	0389	Des Moines	21	40 46	91 17	522	7P	7P	Glen Wood	3	Oasis	6186	Johnson	10	41 43	91 24			Ed. Kadera	3 4	
Ausaroff	0463	Kossuth	28	40 53	95 44				Guy D. Hart	2 3 5	Oswego	6200	Fayette	27	42 40	91 55	1036	8P	8P	CLOSED	5-16-50
Bartlett 3 mi. E	0493	Fremont	6	42 02	94 08				E. L. Kilpatrick	3	Osage	6243	Monona	15	42 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5
Beaver	0549	Boone	28	40 41	94 44	1215	8P	6P	H. J. Chambers	2 3 5	Oscawagon	6305	Mitchell	6	43 17	92 40	813	6P	6P	L. J. Langrecht	2 3 5 7
Bedford 1 mi. N	0576	Taylor	10	41 54	92 17	855	7P	7P	Walter C. Kabe	2 3 5	Ottumwa	6316	Clarke	6	41 02	93 46	1136	6P	6P	Ray A. Kern	2 3 5 7
Belle Plaine	0600	Benton	14	42 18	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa AP CAA 5 mi. N	6389	Wapello	6	41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 4 5 7
Bellevue Lock & Dam 12	0608	Jackson	14	42 18	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa	6391	Wapello	6	41 00	92 24	820			Winifrey Kinnear	3 4
Bloomington 2 mi. S	0745	Taylor	19	40 38	94 29	1081	7P	7P	Glenn A. Cobb	2 3 5	Pella	6527	Marion	6	41 24	92 55	875	7P	7P	Arthur K. Varrips	3
Bloomfield 2 mi. N	0753	Davis	8	40 47	92 28	825	7P	7P	Mrs. Leo Foster	2 3 5	Perry 2 mi. SE	6568	Dallas	20	41 51	94 06	975	7P	7P	Eugene H. Hastie	2 3 5
Boone	0807	Boone	6	42 04	93 53	1126	6P	6P	E. G. Kolb	2 3 5	Pocahontas	6719	Pocahontas	11	43 05	95 38	1517	6P	6P	Thomas A. McMahon	2 3 5
Boone	0925	Hancock	10	43 04	93 49	1234	6P	6P	Rev. D. A. Rust	2 3 5 7	Primghar	6900	O'Brien	16	41 01	95 13	1077	9P	MID	Clarence M. Totty	2 3 5
Burlington WB Airport	1063	Des Moines	14	40 47	91 08	695	MID	MID	U. S. Weather Bureau	2 3 5	Red Oak	6940	Montgomery	16	41 01	95 14			Mrs. Z. M. Conz	3	
Carroll	1253	Carroll	20	42 04	94 52	1280	7P	7P	Ben H. Schenkelberg	2 3 4 5 7	Red Oak 1 mi. NW	6941	Montgomery	7	42 49	95 58			Municipal P & L Pl.	3 4	
Cascade	1257	Dubuque	12	42 18	91 00	890	7P	7P	C. J. Meiers	2 3 5 7	Reasens	7058	Emmet	8	43 18	94 30			Harvin A. Trees	3 4	
Cedar 4 mi. E	1277	Monona	11	42 04	95 49				Bob Zimmerman	3	Riverton	7085	Fremont	16	40 41	95 35	920			William Stubbs	2 3 5 7
Cedar Falls	1300	Black Hawk	4	42 32	92 27	875	7P	7A	E. J. Cable	2 3 5 7	Rock Rapids	7147	Lyon	1	43 26	96 10	1341	7P	7P	George Ravelling	2 3 4 5
Cedar Rapids No. 1	1319	Linn	4	41 59	91 39	813	7P	7A	John T. Wurster	2 3 5 7	Rockwell City	7161	Calhoun	20	42 24	94 37	1223	7P	7P	F. C. Beitelbacher	2 3 3
Cedar Rapids No. 2	1324	Linn	4	41 58	91 40				C. M. Simon	3	Sac City	7312	Sac	20	42 26	94 59	1274	8P	8P	W. Floyd Harvey	3 4
Centerville	1354	Appanoose	5	40 43	92 53	1013	7P	7P	Earl McIntire	2 3 4 5	Saint Ansgar 2 mi. S	7326	Mitchell	4	43 21	92 55			Irvin L. Halverson	3 4	
Chariton 3 mi. E	1394	Lucas	5	43 00	92 40	1013	MID	MID	U. S. Weather Bureau	2 3 4 5 7	Saint Charles	7340	Madison	6	41 16	93 47			Rose E. Wise	2 3 5	
Charles City	1402	Floyd	4	43 04	93 32	1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7	Sarborn	7386	O'Brien	7	43 11	95 39	1052	7P	7P	Wise Susie O. Dow	2 3 5 7
Cherokee	1442	Cherokee	11	42 43	91 03				Ronald W. Barnes	2 3 5	Saratoga 2 E	7410	Howard	22	42 22	92 22			Don A. Fairchild	2 3 5 7	
Clarion	1528	Cedar	17	40 44	95 01	1004	7P	7A	Walter L. Weakland	2 3 5	Sheldahl	7572	Franklin	4	42 54	93 13			Richard J. Galvin	3 4	
Clarinda	1533	Page	17	40 44	93 44	1170	7P	7P	George Reeder	2 3 5 7	Sheldahl	7594	O'Brien	7	43 10	95 51	1418	7P	7P	Ross E. Forward	3 4
Clarion	1541	Wright	14	41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Shell Rock	7802	Butler	4	42 43	92 55			Elmer J. Aggel	3 4	
Clatone No. 1	1635	Clatone	14	41 50	90 11				David M. Swift	3	Shenandoah	7813	Clay	16	40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5 7
Clatone No. 2	1640	Clatone	14	41 50	90 11					Sibley	7864	Oceola	1	43 24	95 45	1494	6P	6P	R. D. Steward	2 3 5	
Columbus Junction	1731	Louisa	10	41 17	91 22	695	6P	6P	Alice Best	2 3 5	Sidney	7869	Fremont	16	40 45	95 38	1050	6P	6P	James B. Shearer	2 3 5
Coon Rapids	1733	Carroll	20	41 51	94 39				Charles W. Smith	2 3 4 5	Sigourney	7878	Keokuk	21	41 20	92 12	1458	7P	7A	Grace L. Sanderson	2 3 5
Dorning 1 mi. W	1833	Adams	17	41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 4 5	Sioux Center	7700	Sioux	1	43 05	96 24			Richard J. Kroon	3 4	
Council Bluffs 6 mi. NE	1888	Pottawattamie	15	41 20	95 49				Mrs. R. O. Crane	2 3 5 7	Sioux City 8 mi. N	7703	Plymouth	15	42 32	96 23	1093	MID	MID	U. S. Weather Bureau	2 3 4 5 7
Council Bluffs 5 mi. NE	1889	Pottawattamie	15	41 19	95 49				Perry C. Crandall	2 3 5	Sioux City WB Airport	7706	Woodbury	15	42 32	96 25			Dan McKelvey	2 3 5	
Cresco	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Sioux City 4 mi. N	7713	Woodbury	11	42 53	95 08	1275	7P	7P	W. A. Simonsen	2 3 5
Creston	1962	Union	19	41 03	94 22	1390	7P	7A	Sellie Spangler	2 3 5	Soldier	7774	Monona	15	41 59	95 46			John T. Wade	3 4	
Cumberland 5 mi. NW	2007	Cass	17	41 18	94 55	1235	7P	7P	Carl E. Pollock	2 3 4 5	Spencer 1 mi. N	7844	Clay	11	43 10	95 09	1331	MID	MID	Radio Station KICD	2 3 4 5 7
Cushing 3 mi. NE	2026	Ida	11	42 30	95 39	1350	7P	7P	H. P. Lashet	2 3 4 5	Spillville	7855	Winneshiek	14	43 12	91 57			Louis J. Bends	3 4	
Dakota City	2037	Humboldt	6	42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	State Center	7925	Warren	10	42 01	93 10	1068	7P	7P	Otha A. Sweet	2 3 5
Davenport WB City	2069	Scott	14	41 30	90 38	579	MID	MID	U. S. Weather Bureau	2 3 5 7	Staten	7979	Buena Vista	20	42 30	93 11	1455	8P	8P	Radio Station KAYL	2 3 5
Decorah	2110	Winneshiek	24	43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Storm Lake 2 mi. E	8009	Clayton	14	42 41	91 31			W. E. Zwaninger	3 4	
Decorah 2 mi. S	2112	Winneshiek	24	43 13	91 47	880	7P	7P	Mora A. Carlson	2 3 5 7	Strawberry Point	8131	Mills	15	40 57	95 43			James A. Verploegh	2 3 5	
Delaware 2 mi. W	2136	Delaware	12	42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5 7	Taber 5 mi. NW	8255	Ringgold	19	40 51	94 12	1275	7P	7P	James A. Deau	2 3 5
Denslow 1 mi. S	2171	Crawford	4	42 06	95 22				E. M. Hugg	2 3 5 7	Tipton	8268	Cedar	4	41 46	91 08	818	7P	7P	Edward E. Deau	2 3 5
Derby	2195	Lucas	6	41 32	93 39	964	MID	MID	U. S. Weather Bureau	2 3 4 5	Titonka 5 mi. NE	8270	Kossuth	6	43 17	94 00			John W. Palisier	3	
Des Moines WB Airport	2203	Polk	6	41 35	93 37	800	MID	MID	U. S. Weather Bureau	2 3 4 5	Toledo	8296	Tama	10	42 00	92 34	929	6P	6P	H. P. Giger	2 3 5
Des Moines WB City	220																				

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the postoffice.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1330.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Station equipped with recording gage only.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- Z Hourly amounts from a recording gage at the same site may be found in Table 4.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 9-23-50 -- 1065

CORRECTIONS

February 1950, Clarinda, Table 2, mean temperature should be 29.2, departure +3.0, and minimum 32 or below 26.

Clarinda, Table 5, minimum for 8th should be 33 and mean minimum 16.1.

Corning, Table 2, average temperature should be 25.5 with a departure of +0.3.

Corning, Table 5, minimum for the 18th should be 12 and mean minimum 14.9.

Jefferson, Table 2, average temperature should be 22.5, departure +0.5.

Jefferson, Table 5, maximum for the 12th should be 30 and mean maximum 31.7.

Woodward, Table 2, average temperature should be 23.4, departure +0.4, and minimum 32 or below 27.

Tracy, Table 3, on 28th should be .42 with a total of 1.24.

April 1950, Clarinda, Table 2, total precipitation should be 1.60, departure -2.00, and .01 or more 9.

Clarinda, Table 3, on the 12th should be .08 with total of 1.60.

Cedar Rapids, Table 5, maximum on the 15th should be 63.

The time of observation of both temperature and precipitation at Fairfield for the period May 28, 1949, through February 28, 1950, should be 7 A.M. instead of 7 P.M. The time of temperature observation for the month of May 1950 should be 7 A.M. instead of 7 P.M. In addition, to determine the temperatures observed during the following periods, read the temperatures published on the succeeding day.

October 23, 1949, through November 30, 1949
February 2, 1950, through March 10, 1950

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

JULY 1950
Volume LXI No. 7



KANSAS CITY: 1950

IOWA - JULY, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of July 1950 was cool and wet. Temperatures for the State averaged 69.7, or 5.2° below the normal. It was the 4th coolest July of record, with lower averages recorded only in 1882, 1891, and 1915. It was also the 5th consecutive month this year with temperatures averaging below normal. There were very few days with 90° or above, and many cool nights. On the 14th, the early morning temperature dropped to 39° at Elkader.

The pattern for above normal rainfall, which began the last decade of April, continued through the second decade of July. Above-normal totals were recorded in all sections except the central, south-central and southeast. The extreme variation in the monthly totals may be seen by comparing Saratoga in the northeast, with a monthly total of 12.17 inches with State Center in the central section, with only 0.66 inch. There was a change to lighter and less frequent rains the last ten days of the month, although heavy thundershowers occurred in the northeast and locally in the southwest near the close of the month.

As the month opened, a small disturbance moved southeastward across Minnesota and Wisconsin, causing widespread showers and thunderstorms throughout Iowa. Hailstorms were reported from many localities, the most severe of which occurred in the triangle between the lower Cedar and Iowa Rivers. Crops and other property near West Liberty were heavily damaged. Following the storm, drainage dikes near Nichols were broken, flooding more than 700 acres of bottomland planted to corn and oats. More general showers fell on the 3rd, 4th and 5th, followed by a period of fair weather and cool nights that accompanied the passage of high pressure across the State. This was followed by another showery period from the 9th through the 12th. Heavy rains fell in southwestern Plymouth County, washing out railroad tracks and causing other damage. After a brief period of fair weather, another showery period set in lasting from the 15th through the 20th. On the 15th there were numerous hailstorms in the northern counties. Heavy damage was reported from Sioux and O'Brien Counties, particularly in a ten mile wide area extending from Orange City to Sheldon and Primghar. In the northeast the rains were especially heavy, with 8 1/4 inches falling near Saratoga. There were flash floods in the Little Cedar River and medium high stages in the Turkey and upper Iowa Rivers. Damages to highways and bridges were heavy, with losses in Howard County alone estimated between \$50,000 and \$60,000. Elsewhere in the northeast heavy hail damage to crops was reported.

The remainder of the month was uneventful, except for heavy showers of short duration in the northeast on the 30th and 31st. Three residents of Dubuque lost their lives in East Dubuque when they attempted to negotiate a flooded dip in the pavement in an automobile. The automobile was swept against a viaduct, and three passengers were drowned. A fourth passenger escaped.

The cool, rainy season was favorable for oats, with indications at the close of the month that the yield would be heavy and the quality excellent. The month was also favorable for forage crops, although there were some complaints of inability to harvest the hay crop because of the frequent rains. The season was too cool for the best growth of corn, but the crop showed good color in most sections. The corn crop was ten days to two weeks late, and there were indications that more small ears were being formed than are usually expected. Ideal conditions during the remainder of the growing season would be required if the corn crop were to mature before the first killing frost of the fall season.--CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 8,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages --mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
JULY 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation							Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
Burlington WB AP	S	15	7.5	26	SW	16+	85	88	58	64	2	4	2	2	2	0	12	65	6.2	See Table 2
Charles City WB City	-	-	5.0	20	S	15	-	-	-	-	2	4	3	3	2	0	14	64	4.8	
Davenport WB City	-	-	-	-	-	-	-	-	-	-	2	3	5	1	1	0	12	-	-	
Des Moines WB City	S†	12†	7.5	30	N	1	78†	85†	58†	57†	5	4	5	2	0	0	16	60	6.9†	
Dubuque WB City	-	-	4.4	35	NW	31	-	-	-	-	6	2	3	0	3	0	14	77	6.1	
Sioux City WB AP	S	17	7.3	34	SW	15	84	90	59	59	2	10	3	1	2	0	18	67	6.4	

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	74.0	96	54	2.78			1903	72.9	100	40	4.83		9	1933	76.1	105	46	3.45	7	
1874	77.8	101	56	3.04			1904	70.6	100	38	4.41		10	1934	79.7	118	40	3.85	10	
1875	72.8	97	56	6.05			1905	70.6	102	40	2.91		9	1935	79.4	107	51	3.35	7	
1876	74.2	95	54	6.15			1906	70.9	102	42	3.04		8	1936	83.4	117	43	0.51	3	
1877	74.0	97	54	2.35			1907	73.7	102	41	7.27		13	1937	75.9	107	46	2.63	7	
1878	76.5	104	52	5.13			1908	73.0	100	42	3.66		8	1938	76.5	107	48	4.24	10	
1879	76.0	102	55	2.20			1909	72.3	102	46	4.77		10	1939	76.2	113	48	3.15	7	
1880	73.8	98	48	4.16			1910	74.5	108	43	1.86		7	1940	76.7	110	42	4.57	7	
1881	75.9	100	50	5.33			1911	75.5	111	38	2.27		7	1941	75.1	106	45	2.24	7	
1882	69.1	94	46	3.66			1912	74.6	103	38	3.71		10	1942	74.3	105	42	4.89	10	
1883	72.9	100	46	5.14			1913	76.1	108	45	1.82		5	1943	75.4	98	47	4.56	10	
1884	71.0	96	50	5.41			1914	76.6	109	43	2.27		5	1944	72.6	98	42	3.73	10	
1885	74.6	102	48	4.73			1915	69.5	92	40	8.32		14	1945	72.1	102	39	2.96	8	
1886	76.2	104	48	0.50			1916	79.7	105	48	1.78		5	1946	72.8	109	36	1.72	7	
1887	77.0	105	45	2.85			1917	74.3	106	38	2.27		7	1947	73.8	100	40	2.45	4	
1888	75.8	103	38	4.31			1918	73.1	105	40	3.17		8	1948	75.0	106	38	4.14	8	
1889	72.6	102	40	4.00			1919	77.4	104	41	2.86		6	1949	76.2	100	43	3.47	7	
1890	75.2	110	45	2.04			1920	72.3	102	45	4.22		9	1950	69.7	94	39	4.65	T	
1891	68.5	99	41	4.22		8	1921	77.9	104	41	2.53		7							
1892	73.0	104	38	5.29		9	1922	71.5	98	40	6.31		11							
1893	75.0	102	47	3.33		7	1923	76.5	102	47	1.75		5	PERIOD	74.5			3.65	T	
1894	76.4	109	39	0.63		3	1924	70.2	99	41	3.67		9							
1895	72.1	104	35	3.40		7	1925	74.1	105	40	2.66		8							
1896	73.6	104	42	6.90		9	1926	74.8	109	38	3.72		10							
1897	75.6	106	42	3.26		6	1927	72.9	102	45	1.96		7							
1898	73.4	102	42	2.98		7	1928	73.9	98	43	4.43		8							
1899	73.1	101	38	3.07		7	1929	74.1	98	43	4.31		9							
1900	73.4	102	37	6.15		9	1930	77.9	112	40	1.49		4							
1901	82.4	113	46	2.34		5	1931	77.2	109	42	2.72		6							
1902	73.1	99	41	8.67		13	1932	75.8	106	40	3.12		7							

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the postoffice.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830 C.S.T.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.

+ And also on a later date or dates.

* Amount included in following measurement, time distribution unknown.

// Gage is equipped with a windshield.

8 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.

AR This entry in time of observation column in Station Index means after rain.

B Adjusted to a full month.

E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.

M One or more days of record missing; see Table 5 for detailed daily record.

R Daily values and monthly total from recording gage. All other data in Table 3 are from non-recording gages.

T Trace, an amount too small to measure.

V Includes total for previous month.

SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 9-15-50 -- 1175

CLIMATOLOGICAL DATA

Table 2

IOWA
JULY 1950

Station	Temperature										Precipitation								
	Average	Departure from normal	Highest	Date	Lowest	Date	Degrees days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max 90° or above	Min. 32° or below					Total	Max depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																			
Alta	68.6	- 5.4	88	30	46	13	13	0	0	6.72	2.97	1.70	12	T	0		13	8	1
Alton	70.1	- 4.4	89	1+	48	13	7	0	0	4.84	1.78	1.39	18	.0	0		11	7	1
Cherokee	68.6	- 5.5	89	1+	48	13	17	0	0	7.54	4.10	1.55	12	T	0		12	9	1
Emetsburg	69.2M		87	1	49	13		0	0										
Estherville	69.3	- 3.7	89	1+	46	6	8	0	0	7.20	3.72	2.50	9	.0	0		10	5	2
Hawarden	70.3	- 4.7	88	1+	48	13	7	0	0	5.49	2.39	2.00	18	.0	0		9	7	2
Inwood 2 W	68.3M	- 5.7	89	1	49	20	18	0	0	3.82	.76	2.15	19	.0	0		10	4	1
Le Mars	70.0	- 5.4	90	30	47	13	7	1	0	5.90	2.26	1.75	18	.0	0		11	6	2
Milford 4 NW	67.7	- 5.3	89	1	44	13	21	0	0	5.62	2.42	1.83	9	.0	0		11	5	3
Pocahontas	69.0	- 4.9	89	1	48	13	9	0	0	6.38	3.14	2.45	12	.0	0		9	5	3
Primghar	69.4	- 5.0	87	1+	44	13	8	0	0	9.11	5.71	2.54	15	.0	0		11	7	3
Rock Rapids	67.8	- 5.9	86	1+	47	13	18	0	0	5.94	2.88	2.16	19	.0	0		11	6	1
Sanborn	68.5	- 5.3	87	30	45	13	13	0	0	7.70	4.18	3.00	9	T	0		12	8	2
Sheldon	67.6	- 6.1	85	1+	46	13	19	0	0	5.29	1.52	1.22	18	T	0		12	6	2
Sibley	66.5	- 6.0	86	1	44	6	29	0	0	8.68	5.22	3.76	9	T	0		12	7	2
Sioux Rapids	68.0M	- 5.9	90	30	47	6		1	0	6.64	3.14	1.47	12	.0	0		11	8	3
Spencer 1 N	67.2M	- 6.6	87	1+				0	0	6.42	3.02	1.62	18	.0	0		11	9	1
Storm Lake 2 E	68.9	- 5.3	88	1	48	13	10	0	0	4.63	1.11	1.26	12	.0	0		13	7	1
DIVISION	68.6	- 5.3								6.35	2.97			T					
NORTH CENTRAL DIVISION																			
Algona	69.1	- 4.9	89	30	49	13	9	0	0	5.45	2.34	1.06	31	T	0		10	7	1
Allison	70.5	- 3.5	92	30	48	13	5	3	0	3.90	.18	1.08	23	T	0		10		1
Bancroft	70.6	- 2.6	90	1+	48	13	6	3	0	5.62	2.22	1.64	18	.0	0		10	6	3
Britt	67.7M	- 5.7	93	30	41	13	30	3	0	4.75	1.37	1.27	31	.0	0		13	6	2
Charles City	69.0	- 4.1	88	30	48	13	9	0	0	5.45	1.80	1.29	12	.0	0		12	6	2
Clarion	68.7	- 5.5	89	23	46	13	15	0	0	4.33	.73	1.52	12	.0	0		9	5	2
Dakota City	69.5	- 4.9	89	30	48	13	6	0	0	4.52	1.02	1.39	12	.0	0		8	7	1
Forest City	68.4	- 4.7	89	30	46	13	20	0	0	4.06	.75	1.73	18	T	0		12	5	1
Hampton	69.5	- 4.0	88	30	48	13	8	0	0	3.82	-.25	1.35	12	.0	0		10	5	1
Mason City 3 N	68.5	- 4.5	87	1+	46	6+	15	0	0	5.52	2.05	1.83	15	T	0		10	5	2
Mason City AP CAA	67.5	- 5.5	88	30	46	6	20	0	0	5.70	2.23	1.19	12	.0	0		10	5	4
Northwood	68.0	- 4.3	88	1	46	13	13	0	0	5.46	2.01	1.93	19	T	0		11	6	2
Osage	68.2	- 4.5	87	28	46	6	21	0	0	7.45	4.17	3.90	16	.0	0		7	6	2
DIVISION	68.9	- 4.5								5.06	1.57			T					
NORTHEAST DIVISION																			
Cascade	68.9		90	28	44	14	10	1	0	3.28		1.35	30	.0	0		8		
Cresco	68.1	- 3.4	87	11+	45	13	14	0	0	11.22	7.41	4.75	16	.0	0		7	7	4
Decorah	68.9		88	4+	46	14	10	0	0	10.73		2.46	16	.0	0		10	9	5
Decorah 2 S	65.6	- 5.4	86	28	41	7+	50	0	0	8.97	5.18	4.22	16	.0	0		8	8	2
Delaware 2 W	68.0	- 5.3	90	30	45	14	21	1	0	3.14	-.71	1.34	30	.0	0		8	4	1
Dubuque L & D 11	68.5	- 6.3	86	28	50	14	14	0	0	3.82	.48	1.27	31	.0	0		10	6	1
Dubuque WB City	71.0	- 3.8	89	28+	50	14	3	0	0	4.69	1.35	1.46	31	.0	0		8	5	3
Elkader	67.0	- 5.3	92	28	39	14	22	3	0	5.71	1.69	1.80	30	T	0		7	6	2
Fayette	68.4M	- 4.4	92	19	44	14	12	1	0	5.56	1.53	1.12	15	T	0		12	8	1
Guttenberg L & D 10	69.5	- 6.0	88	11+	48	14		0	0	4.73	.66	1.98	31	.0	0		8	5	1
Independence 2 W	69.9	- 3.6	90	28+	48	13+	7	2	0	2.71	-1.09	.85	1	.0	0		9	5	0
New Hampton	68.4M	- 4.5	88	28	47	13	10	0	0	4.86	1.18	1.75	12	.0	0		9	4	3
Saratoga 2 E	65.9		85	28	43	6	45	0	0	12.17		7.45	16	.0	0		9	6	2
Tripoli	69.7		88	28+	48	13	6	0	0	5.51		1.41	12	T	0		11	7	1
Waukon	67.6	- 4.3	86	28	46	13	21	0	0	9.85	5.66	4.46	16	T	0		10	9	2
DIVISION	68.4	- 4.7								6.46	2.55			T					
WEST CENTRAL DIVISION																			
Audubon 2 S	68.0M	- 7.0	89	2	47	13	13	0	0										
Carroll	71.0	- 3.7	94	30	47	13	3	3	0	2.95	-.49	.89	19	.0	0		6	5	0
Castana 4 E	68.7M		89	3	46	14	10	0	0	3.43		1.04	18	.0	0		10	6	1
Denison 1 S	69.3	- 5.6	88	30	48	13	4	0	0	3.89	.46	1.18	12	.0	0		8	5	1
Guthrie Center	69.5M	- 6.0																	
Harlan	69.8	- 5.2	90	1+	50	13	3	2	0	7.49	3.93	3.30	16	.0	0		10	5	2
Ida Grove 4 SSE	69.7	- 4.9	91	30	48	13	3	2	0	6.08	2.50	1.05	9	.0	0		11	7	3
Jefferson	69.8	- 5.0	90	30	49	13	6	1	0	2.57	-1.28	1.08	12	.0	0		10	4	1
Lake City	68.8M	- 6.1	89	1	45	13	12	0	0										
Logan	69.5	- 6.7	90	1+	47	13	7	2	0	5.91	2.44	1.95	12	.0	0		13	4	3
Mapleton 5 NW	69.1	- 6.2	89	1	48	13	9	0	0	6.81	3.21	1.15	17	.0	0		10	7	2
Missouri Valley	71.3	- 5.4	93	1	47	13	3	2	0	8.14	4.94	2.46	31	T	0		12	5	4
Onawa	70.4M	- 5.8	91	2	44	13+	9	3	0	3.47	-.24	1.56	17	.0	0		9	4	1
Rockwell City	69.4	- 5.2	90	30	46	13	6	1	0	3.87	-.09	1.13	9	.0	0		8	5	1
Sac City	69.2M	- 5.2	88	1	49	13		0	0	4.30	.76	1.16	12	.0	0		9	5	1
Sioux City WB AP	70.1	- 5.1	89	1+	49	13	6	0	0	4.13	.98	1.45	18	.0	0		16	3	2
DIVISION	69.6	- 5.7								4.85	1.30			T					
CENTRAL DIVISION																			
Ames 3 SW	69.5	- 5.4	90	30	47	14	8	1	0	1.92	-1.50	.66	3	.0	0		9	4	0
Boone	71.9	- 4.1	92	30	50	13	5	4	0	1.95	-1.81	.39	5	.0	0		8	3	0
Des Moines WB AP	70.9	- 4.7	89	30	51	13	3	0	0	2.93	-.40	.73	15	.0	0		10	5	0
Des Moines WB City	71.6	- 5.1	90	30	52	13	2	1	0	2.81	-.52	.80	3	T	0		11	6	0
Fort Dodge	70.1	- 4.2	90	30	48	13	5	1	0	2.83	-.91	.83	19	.0	0		9	4	0
Grinnell	70.3	- 5.1	90	30	47	14	2	1	0	2.31	-1.47	.83	31	.0	0		7	4	

CLIMATOLOGICAL DATA

IOWA
JULY 1950

Table 2-Continued

Station	Temperature										Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days			
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more	
Woodward 7 N	69.3M	- 6.2	90	1	49	13		1	0											
DIVISION	70.4	- 4.7								1.92	-1.74		T							
EAST CENTRAL DIVISION																				
Anamona 1 NW	68.3	- 5.5	87	30	45	14	14	0	0	4.88	1.08	1.23	30	.0	0			11	6	1
Belle Plaine	70.4	- 4.8	90	28+	46	14	5	2	0	1.11	-3.09	.37	5	.0	0			8	2	0
Bellevue L & D 12	68.5	- 5.5	89	30	44	14	11	0	0	4.02	.52	1.82	13	.0	0			9	3	1
Cedar Rapids No. 1	70.2	- 5.4	89	28+	47	14	3	0	0	6.16	2.48	2.71	31	T	0			10	4	2
Clinton No. 1	71.6	- 3.8	90	11	51	1	1	1	0	6.32	2.78	3.13	19	.0	0			10	4	2
Davenport WB City	73.0	- 3.8	89	12+	56	13+	1	0	0	3.36	.14	1.47	19	.0	0			10	5	1
Iowa City	70.2	- 4.9	90	30	49	1+	3	1	0	6.83	2.99	2.54	2	T	0			12	6	2
Iowa City AP CAA	70.2	- 4.9	90	30	47	1	4	1	0	7.65	3.81	2.69	1	T	0			12	7	2
Le Claire L & D 14	72.2	- 3.8	89	28	56	1+	1	0	0	3.46	.12	1.75	19	.0	0			9	4	1
Maquoketa 5 E	70.1	- 3.8	89	28+	48	14	5	0	0	2.27	-1.45	.55	19	.0	0			9	5	0
Muscatine No. 1	71.7	- 3.8	91	31	48	14		2	0	4.90	1.30	1.84	2	T	0			9	5	2
Tipton	69.7	- 5.8	89	11+	43	14	9	0	0	7.28	3.43	1.39	16	T	0			9	8	3
Vinton	70.7M	- 4.3	91	28+	45	14		3	0									9	4	0
Williamsburg	69.9	- 5.9	88	30	50	14	5	0	0	2.12	-1.58	.48	20	.0	0			9	4	0
DIVISION	70.5	- 4.5								4.64	.91			T						
SOUTHWEST DIVISION																				
Atlantic 1 E	70.1	- 5.9	92	1	47	13+	6	2	0	2.95	-.43	.93	16	.0	0			12	3	0
Atlantic AP CAA	67.7	- 8.3	91	1+	44	14	12	2	0	2.63	-.75	.67	15	.0	0			13	3	0
Bedford 1 N	69.3	- 7.2	87	1+	49	13	7	0	0	4.58	.84	2.20	17	.0	0			6	6	2
Clarinda	70.2	- 6.5	91	1	49	14	2	1	0	4.60	.72	1.36	17	.0	0			12	5	1
Council Bluffs 5 NE	69.3	- 6.5	91	1	48	6+	6	2	0	6.62		3.28	12	T	0			12	5	2
Glenwood 2 E	70.4	- 7.0	94	1	48	13	4	3	0	11.85	8.45	5.80	12	.0	0			13	5	3
Greenfield	69.4	- 5.4	90	2	47	13	11	1	0	5.35	1.67	2.54	31	.0	0			9	6	1
Oakland 2 E	69.1	- 7.3	92	1	47	6+	8	2	0	4.89	1.68	1.47	16	.0	0			14	6	2
Red Oak	69.4	- 6.9	91	1	47	6+	7	1	0	9.32	5.67	3.18	17	.0	0			13	5	3
Shanandoah	71.1	- 7.2	93	1	50	13+	2	2	0	6.59	2.89	3.29	12	.0	0			11	5	2
Sidney	71.5		94	1	49	13	3	2	0	6.35		2.74	12	.0	0			11	7	1
DIVISION	69.8	- 6.9								5.98	2.42			T						
SOUTH CENTRAL DIVISION																				
Albia	70.8	- 5.3	88	1+	48	14	4	0	0	1.54	-2.03	.42	1	.0	0			8	3	0
Centerville	70.7	- 6.6	87	11+	48	14	3	0	0	4.81	1.21	1.84	17	.0	0			11	3	2
Chariton 3 E	69.4	- 6.0	88	1+	46	14	6	0	0	2.64	-.98	1.47	17	.0	0			6	4	1
Creston	69.1	- 6.3	91	1	46	14	8	1	0	4.76	1.57	1.92	17	.0	0			12	5	2
Indianola	71.6	- 4.8	91	1+	49	13	3	4	0	2.96	-.41	.66	16	.0	0			8	6	0
Knoxville 2 W	71.4	- 4.9	89	30	50	13	3	0	0	2.30	-1.18	1.19	19	.0	0			5	3	1
Lamoni AP CAA 4 WNW	69.7	- 6.4	90	1	49	14	3	1	0	4.56		3.41	17	.0	0			9	2	1
Millerton	69.7M	- 6.4	86	14	49	13+	5	0	0	4.32	.73	2.03	17	T	0			9	6	1
Mount Ayr 2 N	69.4	- 6.8	88	1	48	14	7	0	0	4.62	.72	2.92	17	.0	0			6	3	1
Osceola	71.2	- 5.1	90	1	50	13	3	1	0	3.82	.32	1.04	17	T	0			7	5	1
Tingley	69.6M	- 7.3	87	1	48	13		0	0									8	7	0
Winterset	71.1	- 5.5	93	1	48	13	3	3	0	3.79	.35	.93	12	.0	0					
DIVISION	70.3	- 6.0								3.65	.14			T						
SOUTHEAST DIVISION																				
Bloomfield 2 W	71.1M	- 6.5	90	11+	48	14		2	0									10	5	2
Burlington WB AP	71.2	- 5.6	91	12	48	14	6	2	0	4.32	.86	1.35	17	.0	0			6	3	0
Columbus Junction	70.2	- 5.4	89	11+	46	14	5	0	0	2.14	-1.58	.97	3	.0	0			10	3	0
Fairfield	71.6	- 4.1	91	31	48	14	4	5	0	2.12	-1.65	.82	17	.0	0			11	7	2
Keokuk L & D 19	74.0	- 4.0	91	13	58	14		1	0	5.76	2.61	1.56	3	.0	0					
Keokuk WB City	72.9	- 5.1	90	12	53	14	2	1	0	5.40	2.25	1.37	3	.0	0			12	7	2
Keosauqua State Park					46	14		2	0	3.33	-.65	1.42	17	.0	0			10	3	1
Mount Pleasant	71.3	- 5.3	92	28	45	14	4	6	0	1.59	-2.22	.57	30	.0	0			4	3	0
Oskaloosa	71.3	- 4.2	90	30	46	14	5	1	0	4.04	.54	1.42	3	.0	0			9	5	1
Ottumwa AP CAA	71.7	- 5.5	89	29	52	13	1	9	0	1.71	-1.68	.75	17	.0	0			6	3	0
Sigourney	71.2	- 5.0	88	11+	51	14+	1	0	0	1.35	-2.37	.57	17	.0	0			5	2	0
Washington	71.0	- 4.7	90	28+	49	14	2	3	0	2.59	-1.09	.88	13	.0	0			9	3	0
DIVISION	71.6	- 4.8								3.12	-.54			.0						
STATE	69.7	- 5.2								4.65	1.05			T						

See reference notes following Station Index.

DAILY PRECIPITATION

IOWA
JULY 1950

Table 3-Continued

Station	Day of month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Iowa Falls 1 N				.04	.02	.26			T			.36				.02	.16	.09	.23				.18								.36	.12	1.34	
Jefferson				.04	.02	.34				.01		1.08				.02	.16	.24	.32				T	.12						.33	.10	2.57		
Jewell 2 S				.36	.04					.07		.01	.59			.14	.10		.53	.01										1.21	.04	4.18		
Kadawha				.36	.04							.40	.63			.86	.57	.39	.48													5.76		
Keokuk L & D 19		.47	1.56	.03		.01						T																						
Keokuk WB City		.50	1.37	.03		.01						.05	.05			.80	.61	.39	.50								.08			1.02	.04	5.40		
Keokuk WB City	R	.47	.02	1.40		.01						.05	.05			.70	.65	.02	.87							.08			1.06	.46	5.33			
Keosauqua St Pk		.03	.03	T		.17						.02	T			.75	1.42	.22	T							.01			.22	.46	3.33			
Keosauqua		.05				.30						.13	.04			2.42	.25	.20	.05										.14	.14	3.32			
Knoxville 2 W		T										.13				.15	.53	1.19														2.30		
Knoxville 2 W	R	.06				.30						.13				.11	.04	.53	1.17													2.34		
Lake City			T	.07	.46					.27	T	.57				.40	.70	.18					T							.72	.35	3.56		
Lake View			.02	.07	.25					.16		1.20				.04	.15	.01	.78	.03			.13						.14	.01	4.56			
Lamoni AP CAA 4 WNW					.24					T		.31				.03	T	3.41	.07	.15				T					.12			4.50		
Lamoni AP CAA 4 WNW R					.11							.33				.04		3.50	.05	.17									.12					
Lansing			.34	.16	.06																													
Larrabee	R		.15	.69	.13																													
Le Claire			.15		T	.07																												
Le Claire L & D 14			.15		.08																													
Le Mars			.88	.21																														
Lenox	R	.23			.25	.15				.03	.05	1.05				.48	.03	1.32	.10															
Logan		T		.20	.03	.02				.03	.11	1.95				1.42	.04	1.14	.08															
Lorimer					.60							.63	.33			.48	.96	.63																
Malvern 5 W					.33							3.35	3.87			.10	1.32	.22																
Mapleton 5 NW					.51	.23						.75				.15	.13	1.15	.25															
Maquoketa 5 E				.11	.26							.41	.04			T	.22	T	.55	.02														
Marion 4 NE	R	2.80			.02	.23						.20				.16			.56	.08														
Marshalltown				.02	.32	.24						.08																						
Marshalltown	R			.02	.32	.24						.68				1.83	1.12	.85	.50															
Mason City 3 N				.14																														
Mason City AP CAA	S			.16	.04							1.19				1.01	1.12	.56	1.06															
Merrill 5 W				1.02	.17							2.95																						
Milford 4 NW			.04	.10	.16							.61				.08	.32	.62	1.71															
Millerton		.55		.08	.28							.40				.63	2.03																	
Missouri Valley		T		.04	T	.21						1.80				1.84	.25	1.03	.03															
Missouri Valley	R				.18							1.80				1.80	.28	1.09																
Monona	R			.20								.59				3.37	1.37		1.19															
Montezuma				.26	.61	.31										.10	.42	.01	.51	.76														
Morse	R	2.70		.03	.09							2.25				.07	.15	.45	.03	.81														
Morse 1 NE	R	2.10			.08							2.20				*	.48	.03	.90															
Morse 4 SSW	R	3.01		.02	.16							1.07					.57	.07	.73															
Mount Ayr 2 W					.33							.79				.20	2.92	.24																
Mount Ayr 2 N	R				.33							.79				.04	2.88	.15	.09															
Mount Pleasant												T				.20	.54																	
Mount Pleasant	R			.06	.08											.24	.53	.15	.07															
Noville	R			.07								.13	.02		1.36	.04																		
Muscatine No. 1			1.94	.15	.19							.60				.08	1.05	.59	.05															
Muscatine No. 1	R	1.90		.14	.18							.60				.08	.99	.22	.35															
Muscatine No. 2			2.30	.12	.26							.04	1.01			.71	1.02	.10	.52	.10														
Nashua 2 NW				.06												.71	.35	.44	.40															
New Hampton				.08								1.75				1.00	.60	.06	1.07															
Newton		.27		.07	.18						T		.17			.15	.26	.23	T															
North English	R			.24								.30				.10	.36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Northwood				.01								.41				T	1.69	*	1.93	.37														
Norwich 2 E SCS Farm R				.05	.14							.50	.19			.54	1.24	.08																
Oakland 2 E				.02	.03	.33						.11	.25	.21			1.47	.67	.27	.09														
Oasis	R	2.08		.03	.19							2.43				.04	.68	.37																
Onawa				.07	.19							.14				.26	.19	1.56																
Osage					.57							.10	.65			3.90	1.05	.95	.25															
Osceola		.20	T			.57						.61				.73	1.04	.48																
Onkaloosa			.42	1.42	.32							T				.21	.94	.03	.22	T														
Ottumwa AP CAA			T	.25	.22							T				.33	.75	T	.02	T														
Ottumwa AP CAA	R			.32								.14				.30	.69	.03																
Ottumwa					.03	.32	.03					.02					.74	.07	.02															
Pella					.40											.25	.50	1.34																
Perry 2 SE					.07							T				.06	T	.14	.12															
Pocahontas				.13	.05							1.40					.12		1.00	.45														
Pringhar				.23	.22							2.15				2.54		.99	.84															
Red Oak				.30	.05							.22	.33	.14		.04	3.18	.04	.02															
Remsen	R		.12	.79	.25																													

HOURLY PRECIPITATION

IOWA
JULY 1950

Table 4--Continued

Station	A. M. Hour ending												P. M. Hour ending												Total			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
TRAER												.02					.01	.01			.01	.04			.01	.01	.02	
WALLIN 2WNW																											.09	
WASHINGTON	.03	.02											.05	.05			.01	.03	.01		.01	.01	.02	.33	.16	.04	.67	
WEBSTER CITY																					.01	.04	.01	.01	.05	.21	.05	
WHEATLAND																											.07	
WOODBINE 5SE																												
-19th-																												
AMES 3SW	.02	.11	.01								.01	.01															.16	
ANKENY 2SW			.09	.01	.01	.02																					.13	
BEAVER	.02	.02																				.10			.01	.02	.04	
BELLEVUE L/D 12	.03	.01	.19	.32	.04	.01	.01																				.74	
BURLINGTON WB APT			.04	.01	.06	.02		.02	.01	.02	.07											.01	.02	.01		.05	.01	1.00
CASCADE		.36	.34		.01	.01		.06	.02	.09	.01															.09		
CENTERVILLE	.01	.02	.01			.04		.01																		.91		
CHARLES CITY	.09	.05	.02	.02	.08	.07	.18	.06	.11						.04	.15	.02	.02									.09	
CHEROKEE	.07	.01	.01																							.10		
COON RAPIDS	.03	.02	.03	.01	.01																					.06		
CORYDON			.01	.01	.03	.01																				.17		
DAKOTA CITY	.08	.06	.03					.07	.02	.01	.31	.06	.02										.02	.03		1.47		
DAVENPORT WB CITY	.79	.03	.08	.03				.01																		.20		
DERBY					.05	.14																				.06		
DES MOINES WB APT				.01	.01	.04																				.09		
DES MOINES WB CITY				.01	.02	.06																	.02	.05	.01	1.00		
DUBUQUE WB CITY			.44	.21	.03		.07	.01	.01	.03		.01													.33			
GRINWELL			.05	.05			.06	.14	.03																			
IOWA CITY AP CAA	.10	*	*	*	*	*	.28	*	*	*	*	*					.15											
IOWA C RALSTON CRK1	.35					.02				.24	.05														.66			
IOWA C RALSTON CRK2	.24					.04				.31	.02	.01	.01												.63			
IOWA C RALSTON CRK3	.40	.01			.03					.34	.01		.01	.01	.03										.84			
IOWA C RALSTON CRK4	.37	.01								.31	.04														.73			
IOWA C RALSTON CRK5	.22									.29	.08	.02													.61			
IOWA FALLS 1N		.06	.03		.04					.01	.09											.02			.02			
KEOKUK WBO						.54	.59	.03	.01																	1.17		
KNOXVILLE 2W					.07	.10																				.17		
LAMONI AP CAA 4WNW																										.17		
LARRABEE	.13	.03	.01							.26																.56		
MARION 4NE	.03	.16				.04	.74	.03	.04	.26												.07						
MASON CITY AP CAA	.33	*	*					.50	.02	.03	.05	.03					.13	*	*	*		.12	.17	.03	.03	.02	1.19	
MONONA			.02	.08	.09			.01	.37	.03															.61			
MORSE	.36	.01	.01			.02		.01	.37	.03															.90			
MORSE 1NE	.39	.01						.46	.02	.01	.01														.73			
MORSE 4SSW	.33							.40																	.09			
MOUNT AYR 2N		.01	.01	.02	.05					.03	.01														.07			
MOUNT PLEASANT					.03																				.21			
MOVILLE	.01	.11	.08	.01																					.35			
MUSCATINE NO 1	.15				.04	.10	.01	.01	.01	.02	.01														.03			
OTTUMWA AP CAA						.03																			.33			
RINGSTED	.09	.01	.04	.07	.03	.06	.03																		.21			
ROCKWELL CITY	.04	.03			.05	.08	.01								.05	.10	.05	.06	.07							.80		
ST ANSGAR 2S	.04	.09	.08	.04	.11	.08	.03																		.30			
SAINT CHARLES					.29	.01																.01	.04	.02	.02	.01	.53	
SHEFFIELD			.03	.04	.04	.02		.01	.05	.02	.05	.07	.06	.03	.01						.01	.04	.02	.02		.29		
SHELL ROCK	.02	.04		.04	.04					.08	.03		.01	.01	.04	.02									.04			
SIoux CITY WB APT	.02	.01		.01																						.01		
SOLDIER		.01																									.70	
SPENCER 1N	.89	*	*	*	*	*	.98	.01	.02	.02	.05	.01					.12	.18	.05	.01							1.53	
SPILLVILLE	.04	.04	.04	.09	.01	.01		.22	.01	.51	.39		.01		.01	.01	.08	.04	.01	.02	.08	.03	.04	.03	.16			
STRAWBERRY POINT																											.09	
TRAER		.01	.01		.06	.02	.02	.01	.06	.01			.01	.01												.48		
WASHINGTON					.02	.02	.02	.01	.07																		.76	
WHEATLAND	.02	.07		.01	.01	.01	.21	.09	.07	.12	.06					.04									.02	.02		
	.23	.15	.01	.01		.07																						
-20th-																												
BELLEVUE L/D 12	.03	.03					.01																			.06		
BURLINGTON WB APT						.02	.01		.01								.01									.01		
DAVENPORT WB CITY							.07	*	*	*	*	*														.04		
IOWA CITY AP CAA																										.03		
IOWA C RALSTON CRK1		.02	.02																							.07		
IOWA C RALSTON CRK4		.01	.02	.01	.01																					.87		
IOWA C RALSTON CRK5		.02	.03	.01	.01																					.22		
KEOKUK WBO	.01	.26	.01	.05	.01	.03				.05	.36	.09														.05		
STRAWBERRY POINT	.03	.06	.10	.02	.01																					.02		
WASHINGTON	.01	.04																										
WHEATLAND	.02																											
-21st-																												
CHEROKEE			.02	.03	.03	.24	.13	.07	.03	.01																.56		
COUNCIL BLUFFS 6 NE							.02	.11	.02				.01	.06	.01	.01									.15			
DAKOTA CITY													.01	.02	.04	.03	.02				.03	.01				.09		
FOREST CITY																										.16		
HINTON 5WNW			.04		.09	.19	.53	.18	.03	.01																1.07		
HORNICK																										.70		
IDA GROVE 4SSE	.01	.02			.06	.10	.10	.04	.04	.02												.01	.01	.01		.29		

HOURLY PRECIPITATION

Table 4-Continued

IOWA
JULY 1950

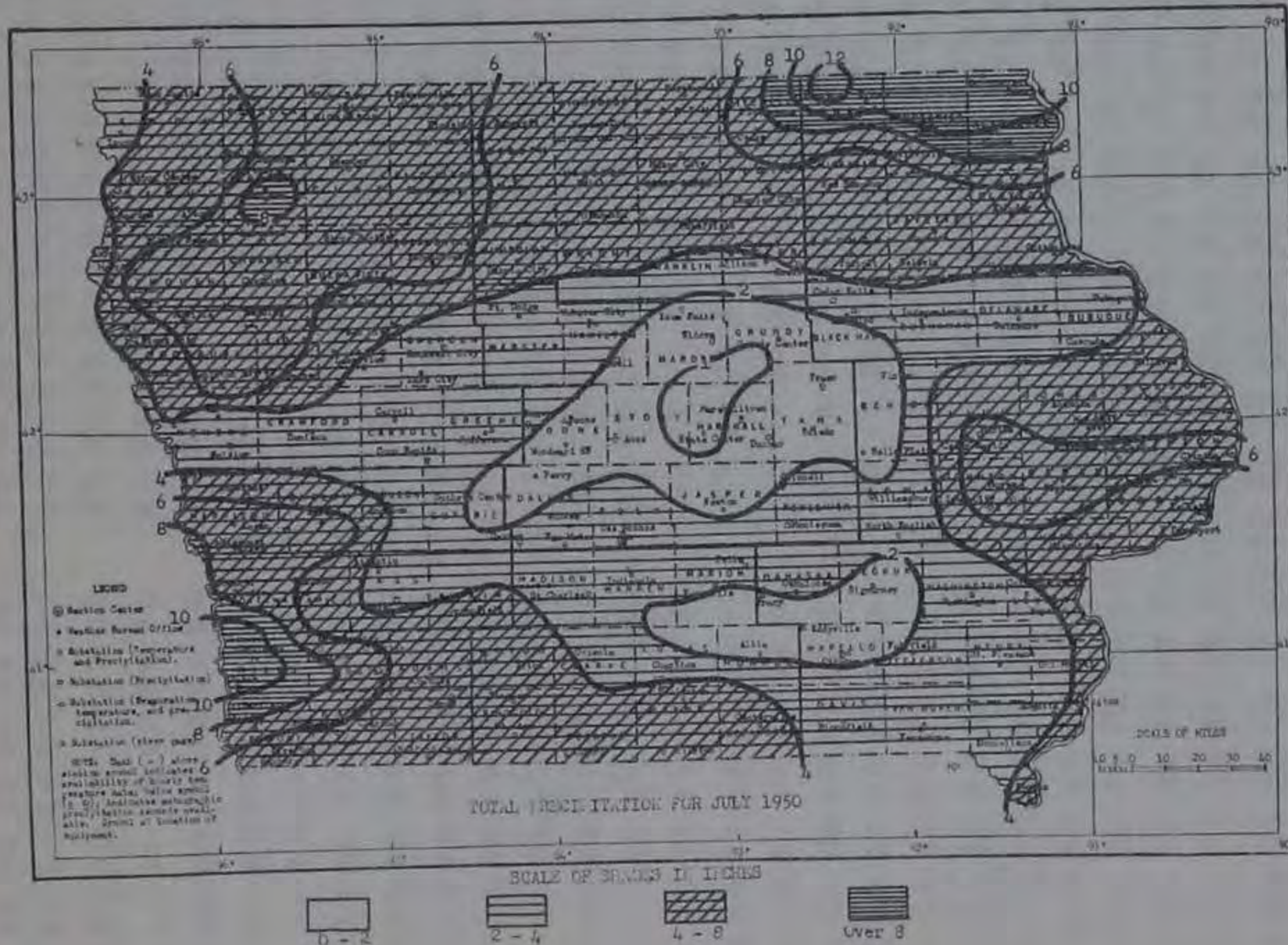
Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
CHARLES CITY															.09	.11									.20	
COON RAPIDS															.04	.01									.05	
GREENFIELD								.09		.04	.01							.15	.02						.31	
MARSHALLTOWN NO 2																	.13	.02							.15	
MOUNT AYR 2N																				.05					.05	
SHEFFIELD																										
SHELL ROCK																										
SPENCER 1N																.23	.12								.35	
STRAWBERRY POINT																										
TABOR 6NW																			.03						.03	
WALLIN 2WNW																		.07							.07	
WEBSTER CITY									.02							.02									.02	
-24th-																										
ATLANTIC AP CAA																										.03
HAMBURG								.02	.02	.08	.08														.30	
-25th-																										
BEAVER																			.03	.01					.04	
CENTERVILLE															.03	.01									.03	
CHARLES CITY															.01	.01									.02	
COUNCIL BLUFFS 6 NE								.03	.02	.01															.06	
GREENFIELD								.01	.05																.06	
HINTON 5WNW																						.04	.01		.05	
KEOKUK WBO																									.05	
LAMONI AP CAA 4WNW															.02	.06	.04	.03	.03	.02	.02	.03	.01		.08	
LENOX															.03	.02	.03	.01							.18	
MASON CITY AP CAA																									.09	
MONONA																										
MOUNT AYR 2N															.02	.02	.06	.19	.01						.20	
MOVILLE															.09	.01		.02	.02						.14	
NORWICH 2E SCS FARM															.06	.02									.10	
SHEFFIELD																									.17	
SIoux CITY WB APT									.03	.06															1.10	
TABOR 6NW									.01	.01	.02	.02													.06	
WOODBINE 5SE																									.03	
-26th-																										
AMES 3SW																									.17	
CORYDON															.02	.01	.01								.04	
LARRABEE																									1.10	
MASON CITY AP CAA																									.15	
MONONA																									.18	
SIoux CENTER																									.18	
-27th-																										
BELLEVUE L/D 12																									.08	
CENTERVILLE																									.03	
COON RAPIDS																									.03	
GRINNELL																									.03	
IOWA CITY AP CAA																									.05	
IOWA C RALSTON CRK1															.05										.07	
IOWA C RALSTON CRK2															.01	.03	.03								.02	
IOWA C RALSTON CRK3															.01	.01									.03	
IOWA C RALSTON CRK4															.02	.01									.12	
OASIS															.12										.20	
-28th-																										
TRAER																									.02	
-29th-																										
LENOX								.02		.04	.01														.07	
-30th-																										
AMES 3SW								.25	.01	.01	.01														.28	
ANKENY 2SW																									.05	
ATLANTIC AP CAA																									.17	
BEAVER																									.30	
BELLEVUE L/D 12																									.99	
BURLINGTON WB APT																									1.00	
CASCADE																									1.32	
CHARLES CITY																									1.11	
CORYDON																									.10	
DAVENPORT WB CITY																									.01	
DES MOINES WB APT																									.05	
DEXTER																									.89	
DUBUQUE WB CITY																									1.25	
GREENFIELD																									2.28	
GRINNELL																									.86	
IOWA CITY AP CAA																										
IOWA C RALSTON CRK1																									1.02	
IOWA C RALSTON CRK2																									.85	
IOWA C RALSTON CRK3																									.95	
IOWA C RALSTON CRK4																									1.41	
IOWA C RALSTON CRK5																									1.75	
IOWA FALLS 1N																									.36	
KEOKUK WBO																									1.06	
LAMONI AP CAA 4WNW								.86	.16																.12	
LENOX																									.50	
MARION 4NE																									1.80	
MARSHALLTOWN NO 2																									.16	
MONONA																									2.00	
MORSE																									1.00	
MORSE 1NE																									1.58	
MORSE 4SSW																									1.00	
MOUNT PLEASANT																									.87	
MOVILLE																									.07	
MUSCATINE NO 1																									.23	
NORTH ENGLISH																									.12	
OASIS																									.78	
RINGSTED																									.02	
ST ANSGAR 2S																									1.03	
SAINT CHARLES																									.09	
SHELL ROCK																									.22	
SIoux CITY WB APT																									.04	
SPILLVILLE																									1.43	
STRAWBERRY POINT																									.93	
TRAER																									.34	

HOURLY PRECIPITATION

IOWA
JULY 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
	WALLIN 2WNW																										.10
WASHINGTON																									.05		
WEBSTER CITY															.02	.07		.01	.01	.19	.12	.10	.01		.07		
WHEATLAND																									.46		
-31st-																											
BELLEVUE L/D 12																									.88		
CASCADE																									.28		
CHARLES CITY																									.49		
CHEROKEE		.52																							.54		
COON RAPIDS			.01	.15	.04																				.20		
COUNCIL BLUFFS 6 NE		.04	.10																						.14		
DAKOTA CITY				.11	.42	.02																			.55		
DAVENPORT WB CITY																									.22		
DES MOINES WB APT																									.01		
DES MOINES WB CITY																									.02		
DEXTER																									.57		
DUBUQUE WB CITY																									.39		
FOREST CITY																									.20		
GREENFIELD																									.13		
GRINNELL																									.25		
HAMBURG																									-		
HARTLEY 3S																									.11		
HINTON 5WNW																									1.00		
HORNICK																									1.55		
IDA GROVE 4SSE																									-		
IOWA CITY AP CAA	6	.54	.18	.90	.16	.02																			.12		
IOWA FALLS 1N																									.22		
LARRABEE			.20																						.08		
LENOX				.01	.02	.04	.01																		.05		
MARION 4NE																									-		
MASON CITY AP CAA	6																								2.55		
MISSOURI VALLEY																									1.99		
MONONA																									.75		
MORSE																									.62		
MORSE 1NE																									.17		
MOVILLE		.11	.01	.04	.01																				.08		
NORWICH 2E SCS FARM																									.39		
OASIS		.01	.01																						.05		
REMSEN																									.31		
RINGSTED		.01	.01	.22	.07																				.72		
ROCKWELL CITY																									.47		
ST ANSGAR 2S																									.01		
SAINT CHARLES																									.80		
SHEFFIELD																									1.40		
SHELL ROCK																									.07		
SIoux CITY WB APT		.04	.03																						.80		
SOLDIER			.01	.72	.01	.05	.01																		-		
SPENCER 1N	6																								.90		
SPILLVILLE		.01	.01	.01																					1.01		
STRAWBERRY POINT																									1.39		
TABOR 6NW																									.10		
TRAEER																									.45		
WALLIN 2WNW		.20	.02	.13	.05	.01	.02	.02																	.06		
WEBSTER CITY		.01	.09	.02	.01	.04	.01																		.16		
WOODBINE 5SE																									-		



See reference notes following Station index.

DAILY TEMPERATURES

IOWA
JULY 1926

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ALBIA	MAX 88	85	84	83	77	81	82	83	82	86	87	80	74	79	86	84	82	80	75	75	79	81	79	79	74	84	86	87	88	87	87	82.1	
	MIN 57	64	65	58	56	54	55	59	61	61	64	68	51	48	59	63	65	58	61	58	51	56	60	57	54	57	62	63	65	66	70	58.3	
ALGONA	MAX 86	83	83	77	76	81	80	82	77	81	82	77	71	76	78	82	77	71	88	74	70	79	80	77	78	82	86	85	85	89	84	79.3	
	MIN 58	58	62	56	53	51	58	61	62	64	61	68	49	53	62	61	63	57	58	53	60	57	60	55	60	60	58	60	60	60	65	58.8	
ALLISON	MAX 87	85	85	76	77	81	80	87	85	85	88	82	72	80	85	88	78	78	72	75	75	84	82	78	82	84	85	90	90	92	85	82.4	
	MIN 53	56	63	54	53	51	55	64	68	65	60	69	48	50	58	65	64	56	58	54	54	56	60	55	60	56	59	61	62	68	65	58.8	
ALTA	MAX 87	85	82	73	74	78	82	81	74	78	77	78	72	77	79	78	78	71	69	75	71	79	80	77	78	82	84	84	84	88	81	78.6	
	MIN 61	61	59	56	50	53	60	61	62	61	65	57	46	52	61	61	62	57	58	51	59	57	60	53	61	57	59	61	62	68	65	58.8	
ALTON	MAX 89	84	89	85	77	80	83	84	80	81	78	80	75	80	81	82	81	80	70	77	77	80	75	80	80	84	84	85	87	88	88	81.4	
	MIN 64	60	55	54	49	61	56	64	60	62	65	68	48	54	63	59	61	55	59	49	61	58	55	53	66	54	57	57	62	71	68	59.7	
AMES 3SW	MAX 88	84	84	78	76	80	80	82	78	83	83	77	73	78	86	87	80	77	70	76	75	81	81	79	79	83	87	88	87	90	88	81.2	
	MIN 53	59	64	58	55	52	53	57	63	63	62	68	49	47	57	61	68	55	61	55	51	54	57	54	55	58	58	56	59	64	66	57.8	
ANAMOSA 1NW	MAX 82	81	81	80	76	77	80	81	81	83	86	84	71	76	84	84	81	78	75	73	76	79	78	79	77	83	86	86	86	87	84	80.5	
	MIN 58	58	60	55	55	50	49	55	58	61	58	64	50	45	54	64	67	52	60	55	47	53	52	55	51	55	57	55	57	83	85	58.0	
ATLANTIC 1E	MAX 92	88	84	86	80	84	85	82	75	83	80	76	75	78	82	88	80	73	76	82	78	83	83	81	75	82	85	88	85	90	85	82.1	
	MIN 60	59	65	52	56	50	51	58	65	62	65	68	47	47	60	61	62	58	63	53	55	55	58	55	57	53	56	56	60	68	65	58.1	
ATLANTIC AP CAA	MAX 91	86	83	82	76	81	84	81	72	81	76	76	70	77	82	85	79	72	74	77	76	81	82	78	73	79	83	86	86	91	85	80.2	
	MIN 58	55	54	48	52	48	48	59	64	62	66	58	46	44	59	61	58	56	55	52	53	52	55	54	54	51	54	53	53	67	59	55.2	
AUDUBON 2S	MAX 85	89	75	77	78	79	81	79	73	79	78	75	69	76	80	85	78	70	72	75	75	78	81	79	80	80	83	82				78.3	
	MIN 59	66	56	51	58	59	61	55	63	60	62	65	47	49	59	62	63	58	58	50	56	56	58	55	56	54	57	59				57.6	
BANCROFT	MAX 90	88	85	84	78	86	87	88	83	87	83	80	75	82	79	82	79	73	68	80	77	82	80	79	85	85	89	90	90	88	84	82.8	
	MIN 57	55	62	53	51	50	56	62	61	64	61	67	48	52	62	61	63	54	58	52	60	58	60	54	57	56	56	60	61	68	67	58.3	
BEDFORD 1W	MAX 87	82	84	84	77	78	80	76	74	78	76	76	73	75	80	81	79	75	73	75	72	77	75	79	74	78	80	83	83	84	87	78.8	
	MIN 60	60	64	58	65	58	57	57	61	60	65	66	49	53	60	64	61	61	62	53	55	57	57	57	60	65	61	61	62	67	66	60.1	
BELLE PLAINE	MAX 86	84	87	80	78	79	82	83	85	84	88	82	75	80	87	88	85	79	80	75	79	83	81	81	80	85	87	90	89	90	89	83.2	
	MIN 49	59	63	55	55	52	52	56	62	66	60	68	49	46	57	64	66	56	61	57	52	55	58	54	54	55	58	57	60	64	68	57.6	
BELLEVUE L AND D 12	MAX 82	80	78	80	77	78	82	83	85	87	87	86	71	78	84	82	82	80	75	72	77	79	81	77	79	84	85	87	88	89	86	81.3	
	MIN 45	58	59	55	55	49	50	57	53	60	57	66	54	44	56	62	67	53	61	57	47	52	54	54	52	55	56	55	56	59	84	55.6	
BLOOMFIELD 2N	MAX 88	88	83	84	78	83	85	86	85	87	90	85	71	83	90	83	82	82	76	73	77											83.5	
	MIN 55	65	65	58	56	56	53	56	61	61	64	63	51	48	51	58	66	61	65	58	49											58.7	
BOONE	MAX 89	87	85	78	77	81	85	86	79	87	84	78	73	82	82	90	81	80	67	77	73	82	83	80	83	86	88	90	90	92	88	82.7	
	MIN 59	63	65	60	59	54	59	61	66	64	59	68	50	54	61	62	67	61	61	55	55	61	68	58	60	58	62	62	65	68	67	61.1	
BRITT	MAX 80	80	79	65	73	80	77	82	84		88	80	75	82	80	87	80	77	70	80		84	82	82	85	87						81.4	
	MIN 53	50	59	47	45	45	52	55	60	60	59	65	41	46	57	59	59	50	55	45	55	52											53.9
BURLINGTON WB APT	MAX 83	86	81	81	77	78	82	84	87	86	90	91	74	81	88	85	81	81	79	67	75	80	83	81	76	83	86	87	89	89	87	82.5	
	MIN 52	64	65	59	57	57	58	55	61	64	60	67	55	48	58	67	66	60	60	55	51	60	61	61	56	57	61	63	63	66	66	59.8	
CARROLL	MAX 90	88	87	83	79	82	87	83	80	84	85	80	77	82	81	88	82	80	77	83	77	83	86	82	78	84	89	89	91	94	89	83.9	
	MIN 58	58	60	54	54	50	54	58	63	59	64	68	47	51	61	60	65	55	60	53	57	55	59	54	57	56	57	60	60	68	64	58.0	
CASCADE	MAX 82	83	81	82	78	79	80	82	84	83	86	85	75	76	84	84	85	79	75	74	78	81	80	80	79	86	86	90	88	89	86	81.9	
	MIN 46	58	59	56	54	50	50	56	54	62	55	65	50	44	55	65	65	52	60	57	47	53	56	56	52	58	58	56	61	65	55.8		
CASTANA 4E	MAX 88	86	89	79	77	81	82	80	74	76	77	77	74	78	81	77	77	68	70	77	79	78	79	80	75	79						78.4	
	MIN 61	62	60	56	53	56	55	60	64	61	62	65	49	46	60	60	62	58	59	52	59	57	60	62	61	56	61	61	63	64	65	59.0	
CEDAR RAPIDS NO 1	MAX 85	83	83	79	78	80	82	83	84	83	88	83	73	80	86	84	83	79	80	75	78	83	81	80	80	85	88	89	88	89	86	82.5	
	MIN 48	59	62	56	56	52	52	55	62	65	59	64	52	47	57	66	68	56	62	57	51	58	58	57	55	57	59	58	61	63	66	57.8	
CENTERVILLE	MAX 85	85	84	82	79	80	82	83	80	85	87	83	73	79	85	84	82	79	75	72	76	80	79	79	78	83	85	86	87	85	87	81.8	
	MIN 57	62	67	57	57	55	54	58	61	59	64	67	52	48	59	65	69	60	68	58	53	55	58	57	56	55	61	60	61	68	70	59.7	
CHARITON 3E	MAX 88	85	84	82	78	80	80	82	77	84	84	81	78	78	85	84	84	78	77	74	76	80	79	80	75	83	87	88	87	87	87	81.7	
	MIN 53	61	64	66	56	49	49	55	64	56	60	66	50	46	59	62	63	56	65	58	52	50	55	52	52	52	58	56	56	63	66	57.1	
CHARLES CITY	MAX 86	82	83	75	76	79	81	82	77	82	86	74	72	79	82	83	77	75	66	75	72	81	79	77	81	82	84	88	86	89	85	79.9	
	MIN 55	57	62	55	52	51	55	59	64	64	60	57	48	52	58	65	61	56	58	54</													

DAILY TEMPERATURES

IOWA
JULY 1950

Table 5-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
DENISON 1S	MAX MIN	87 63	84 58	83 61	79 55	76 55	81 50	82 57	80 61	77 64	77 63	73 65	76 67	81 64	85 61	78 61	73 65	71 60	77 60	75 59	80 58	80 61	79 56	75 57	81 56	84 56	84 58	86 63	88 63	80 65	79.4 59.2			
DES MOINES WB APT	MAX MIN	88 57	87 62	85 64	80 59	77 57	81 55	82 59	83 61	78 65	85 64	82 64	74 61	73 51	78 52	85 61	87 63	80 66	77 61	70 60	76 58	82 60	78 54	80 60	76 58	83 62	87 63	86 64	88 68	87 65	82.0 60.4			
DES MOINES WB CITY	MAX MIN	88 58	85 64	85 67	80 60	79 57	80 56	82 58	83 63	79 66	85 66	84 66	76 62	74 52	79 62	86 65	87 66	82 61	79 60	72 58	77 54	78 60	83 62	80 58	82 60	77 59	83 63	88 63	87 64	88 69	87 67	81.1 61.1		
DUBUQUE L AND D 11	MAX MIN	77 54	78 61	74 59	75 60	72 55	75 56	77 57	78 62	80 61	82 66	83 63	82 62	67 53	72 50	80 61	79 60	77 66	76 58	70 56	70 55	75 53	75 57	76 60	72 57	79 59	82 61	83 61	86 62	85 63	85 65	77.6 59.4		
DUBUQUE WB CITY	MAX MIN	83 54	81 62	79 63	80 60	77 56	79 57	81 57	82 63	84 61	86 66	87 63	86 65	72 54	77 50	84 62	83 63	80 66	78 59	70 58	74 58	79 53	83 61	80 58	78 59	81 60	86 62	85 63	89 64	89 66	86 65	81.5 60.4		
ELKADER	MAX MIN	86 41	84 53	85 54	80 50	80 47	81 45	83 45	84 48	86 50	88 56	90 51	81 61	76 45	81 39	86 51	86 58	82 59	78 50	72 53	77 56	75 53	81 51	83 52	79 46	81 51	86 52	87 47	92 51	89 50	90 55	83.1 50.9		
EMMETSBURG	MAX MIN	87 57	82 69	82 60	79 56	75 53	78 52	80 53	83 60	78 61	80 61	78 61	78 67	72 49	78 50	79 61	79 60	78 63	75 56	66 58	72 52												78.6 58.8	
ESTHERVILLE	MAX MIN	89 56	88 55	85 60	75 54	77 50	84 46	86 52	87 60	79 48	84 62	82 61	79 65	75 48	79 52	83 60	80 62	74 54	69 58	78 50	77 59	79 58	80 60	79 54	82 57	84 56	86 55	87 61	88 62	89 66	85 66	81.5 57.1		
FAIRFIELD	MAX MIN	84 54	86 64	82 66	82 59	78 56	80 56	84 65	84 65	86 61	90 65	90 64	88 68	73 52	82 48	88 55	83 65	83 67	81 57	73 64	71 54	78 51	82 59	82 59	80 55	75 57	83 61	88 62	90 60	90 85	86 70	83.1 60.0		
FAYETTE	MAX MIN	84 46	81 56	83 59	77 54	77 51	78 48	80 49	81 54	80 58	84 60	86 54	76 67	72 47	79 44	84 58	79 63	78 63	92 52	76 58		82 48	79 54	78 60	84 53	85 56	85 53	88 54	88 57	86 62	85 64	81.4 55.4		
FOREST CITY	MAX MIN	88 52	84 54	83 61	77 53	76 50	80 48	81 54	82 58	72 64	83 62	84 62	78 68	72 46	77 51	82 60	77 62	70 52	65 57	69 50	79 58	79 56	79 60	77 54	80 56	84 54	86 57	87 58	85 61	89 66	86 66	79.5 57.2		
GLENWOOD 2E	MAX MIN	94 62	90 61	85 63	87 51	79 58	83 49	85 60	81 61	77 66	75 63	78 67	77 67	73 48	79 51	82 62	87 62	82 64	76 60	74 67	80 52	77 58	80 56	83 51	81 51	72 59	82 52	84 56	86 62	87 71	88 63	79.6 59.0		
GREENFIELD	MAX MIN	88 65	90 60	83 66	81 57	76 56	78 55	81 53	80 56	80 58	79 67	81 65	75 68	71 47	76 50	81 58	84 61	82 58	72 54	69 58	75 58	77 56	78 58	78 54	83 56	81 58	73 61	80 61	83 65	81 65	88 70	84 64	82.4 59.1	
GRINNELL	MAX MIN	85 52	85 59	83 63	81 55	78 55	81 53	82 55	83 60	84 62	85 66	87 63	78 66	74 55	79 47	85 57	86 62	83 66	78 56	75 58	82 58	77 56	76 58	80 53	79 55	80 54	85 55	87 60	88 57	87 58	85 64	81.7 58.2		
GRUNDY CENTER 4NE	MAX MIN	85 50	84 57	85 69	78 55	76 54	80 50	80 55	81 57	82 61	82 60	85 63	77 46	81 49	79 48	86 62	86 62	82 54	77 60	73 55	72 52	75 56	79 58	79 54	77 55	75 55	83 59	84 59	85 59	89 64	83 64	78.6 56.8		
GUTHRIE CENTER	MAX MIN																																	72.8 60.4
GUTTENBERG L D 10	MAX MIN	83 51	81 60	84 60	80 55	77 54	80 52	81 54	83 57	83 59	87 64	88 60	81 64	71 49	78 48	84 61	83 62	80 63	79 56	68 57	75 55	78 52	80 56	81 58	77 56	81 58	85 57	85 59	88 60	88 61	85 65	81.3 57.6		
HAMPTON	MAX MIN	86 56	82 58	82 64	75 55	76 53	79 51	80 59	82 62	80 64	83 61	84 68	80 48	72 55	77 59	83 64	84 65	77 65	73 59	67 56	74 55	73 56	80 61	80 55	76 55	78 60	81 57	82 58	85 61	85 69	88 65	79.6 59.3		
HARLAN	MAX MIN	90 62	86 61	83 65	80 54	76 58	81 51	85 55	78 60	75 64	76 64	78 66	76 67	74 50	78 51	80 60	84 61	78 66	76 59	72 62	76 55	72 58	79 58	82 60	80 57	75 60	80 55	80 57	85 58	86 61	90 67	79.9 59.6		
HAWARDEN	MAX MIN	88 61	85 55	83 60	72 53	75 50	81 50	85 58	84 65	75 68	75 68	84 71	83 68	80 48	84 55	84 67	86 60	86 59	76 55	70 60	76 49	78 64	83 58	77 58	78 58	83 56	84 56	88 58	88 58	85 65	88 68	81.1 59.5		
IDA GROVE 4SSE	MAX MIN	90 60	88 56	85 58	76 52	79 51	83 50	87 55	85 54	73 64	80 61	80 64	79 66	78 48	80 51	82 60	83 63	80 63	70 56	72 58	80 49	73 57	84 56	84 59	82 52	79 56	88 56	89 57	88 61	90 61	86 63	81.8 57.5		
INDEPENDENCE 2W	MAX MIN	83 51	82 59	83 61	81 57	76 53	78 53	80 56	81 57	83 60	83 65	86 60	83 68	71 48	78 46	84 56	86 64	83 65	81 59	74 56	76 53	78 59	82 59	79 58	77 56	84 57	85 57	85 59	90 61	89 63	86 64	81.8 58.0		
INDIANOLA	MAX MIN	91 57	86 69	87 67	82 56	78 52	80 52	84 57	85 60	78 63	87 58	87 66	79 61	75 49	82 52	86 55	88 55	84 63	78 63	74 65	77 57	78 52	83 60	80 61	81 61	79 60	85 61	89 61	89 63	90 65	90 66	83.4 59.8		
INWOOD 2W	MAX MIN	89 62	84 53	84 57	73 50	77 50	80 50	84 58	85 64	74 65	75 65	76 64	73 65			82 54	84 63	78 59	81 57	71 55	69 49	72 50	77 51	71 51	79 53	79 54	78 55	84 58	84 58	85 64	87 64	81.6 56.9		
IOWA CITY	MAX MIN	83 49	83 58	82 63	79 59	77 54	78 54	80 57	82 60	83 66	84 66	87 60	83 66	73 53	79 49	84 57	84 66	83 63	80 55	80 59	73 55	78 50	80 56	81 57	75 58	81 58	82 58	79 55	86 59	86 60	88 62	86 67	81.6 58.7	
IOWA CITY AP CAA	MAX MIN	84 47	85 60	81 62	79 58	78 57	79 54	82 54	84 58	83 63	84 58	89 62	85 62	72 53	78 48	87 57	85 66	84 63	83 55	81 59	75 55	81 50	82 56	82 57	79 58	78 53	86 54	86 59	88 59	88 60	90 62	82.8 57.5		
IOWA FALLS 1N	MAX MIN	87 50	82 56	84 63	76 52	78 53	80 47	82 48	83 56	82 63	85 64	86 61	77 63	72 46	79 50	86 62	88 65	80 65	79 52	73 55	72 55	74 51	75 56	84 57	87 54	80 59	84 53	87 54	89 53	89 56	90 63	81.9 56.2		
JEFFERSON	MAX MIN	87 65	83 59	84 64	80 54	77 56	79 51	81 54	82 58	77 67	83 60	82 68	78 66	72 49	77 50	84 60	86 62	80 57	79 58	73 54	75 58	75 56	80 56	80 59	78 56	75 59	83 56	86 59	85 60	86 61	90 66	80.7 58.8		
KROOK L D 19	MAX MIN	79 60	81 60	88 67	84 67	81 62	77 62	80 62	84 63	84 66	85 66	86 69	89 72	91 60	74 58	81 62	87 70	84 70	81 68	82 60	81 60	81 60	81 66	81 66	85 65	81 66	83 66	85 68	87 69	89 72	88 72	82.7 65.2		
KROOK WBO	MAX MIN	80 60	85 69	82 65	82 64	78 61	79 59	80 61	84 61	85 63	85 66	88 67	90 72	75 58	81 53	88 60	82 72	81 70	81 66	79 63	66 59	72 60	80 66	83 64	80 61	76 63	83 61	85 62	87 65	89 68	86 70	81.7 64.1		
KEOSAUQUA STATE PK	MAX MIN																																	91.8 59.1
KNOXVILLE 2W	MAX MIN	88 57	85 62	85 67	80 59	78 55	81 54	82 57	84 62	82 64	86 64	87 67	83 68	74 50	80 52	87 61	85 64	82 63	79 57	75 63	72 58	70 53	75 58	81 58	81 61	80 56	77 57	84 61	87 63	87 64	89 68	82.3 60.4		
LAKE CITY	MAX MIN	89 57	87 55	84 62	80 54	76 52	81 49	84 55	85 54	79 58	83 60	80 64	78 66	45 64	50 62	87 61	80 64	87 57	72 59	70 51	75 56	81 56	81 59	80 53	77 56	78 53	80 56	87 57	87 59	89 60	88 66	80.7 56.8		
LAMONI AP CAA 4NW	MAX MIN	90 58	84 61	85 63	86 55	77 55	81 53	84																										

DAILY TEMPERATURES

IOWA
JULY 1926

Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MARSHALLTOWN	MAX MIN	88 51	88 60	84 64	84 59	83 55	77 52	80 52	82 57	83 63	84 65	85 61	86 69	77 49	73 46	80 56	89 62	88 68	79 54	78 65	77 57	77 60	86 59	81 56	80 54	82 55	86 58	87 56	89 58	89 65	91 64	82.9 57.8	
MASON CITY 3N	MAX MIN	87 51	84 53	83 62	73 53	78 49	81 46	82 51	83 60	74 64	84 80	87 59	78 63	77 46	79 50	82 60	82 62	77 64	71 52	82 59	79 51	72 56	81 54	78 60	80 53	80 57	84 53	85 55	87 57	87 61	87 69	85 87	80.3 56.7
MASON CITY AP CAA	MAX MIN	86 51	83 54	82 57	73 52	77 50	81 46	82 52	83 53	74 63	82 60	86 60	77 54	72 47	78 51	78 57	82 60	76 59	72 53	61 57	77 50	71 55	80 53	78 57	80 55	82 56	85 56	86 58	86 62	88 65	88 61	85 81	79.4 55.3
MILFORD 4NW	MAX MIN	89 57	84 54	85 59	72 50	77 49	79 50	83 54	83 60	74 61	80 61	79 61	78 83	74 44	78 49	80 60	82 57	78 59	70 55	68 56	75 48	75 59	78 55	78 56	81 51	81 55	84 54	85 55	86 56	86 60	88 61	81 64	79.3 55.9
MILLERTON	MAX MIN	85 57	82 63	81 66	80 57	75 56	77 53	80 56	81 58	75 57	84 63	84 66	77 57	71 47	88 49	83 57	80 62	78 60	73 66	70 66	76 55	78 62	76 62	76 60	72 59	80 64	85 61	85 60	85 65	82 70	83 67	79.8 60.0	
MISSOURI VALLEY	MAX MIN	83 63	89 60	88 63	85 55	82 57	86 51	86 58	82 57	78 67	78 63	81 66	82 57	77 47	80 56	85 61	84 61	82 64	75 61	74 62	82 52	75 60	82 60	85 62	82 54	78 62	82 58	86 60	85 65	87 70	92 64	85 81	82.8 59.9
MOUNT AYR 2M	MAX MIN	88 60	83 60	84 65	84 56	83 56	80 53	82 54	81 58	76 66	82 60	82 66	76 67	73 50	77 48	82 60	83 65	79 62	77 60	75 64	73 55	75 53	78 58	76 57	79 54	76 56	81 55	82 55	84 54	85 67	85 66	85 85	80.2 58.3
MOUNT PLEASANT	MAX MIN	83 51	89 61	82 65	85 54	80 56	80 53	86 56	86 57	88 62	85 66	90 61	88 65	75 54	82 45	88 55	82 64	83 66	79 66	69 57	79 49	85 56	83 57	82 58	77 54	86 55	90 59	92 60	90 80	90 65	90 88	90 88	84.1 59.4
MUSCATINE NO 1	MAX MIN	85 49	87 61	79 63	83 60	81 56	84 55	85 53	86 55	86 61	85 62	89 59	88 68	78 53	82 48	87 59	84 68	85 87	83 57	82 64	75 58	82 53	84 57	82 58	76 55	86 56	87 60	90 61	89 62	88 85	91 70	84.3 59.1	
NEW HAMPTON	MAX MIN	84 51	83 57	84 62	77 54	78 52	80 49	80 53	81 56	78 61	83 60	85 59	79 55	77 47	77 49	83 55		78 65	75 55	66 57	76 54	71 55	80 58	79 61	81 55	83 53	86 56	88 59	87 65	86 60	84 65	80.2 58.6	
NEWTON	MAX MIN	81 52	86 62	87 67	82 56	79 56	81 55	83 59	83 61	86 64	82 66	79 66	76 70	80 49	87 52	88 60	84 64	79 67	79 59	77 62	78 58	83 55	79 60		78 59	86 62	88 61	90 61	89 64	90 67	90 67	83.1 60.3	
NORTHWOOD	MAX MIN	88 51	84 53	84 61	80 53	77 47	80 53	82 54	80 61	84 59	84 58	79 62	79 46	77 50	76 56	81 63	77 62	73 58	62 56	77 48	75 56	79 56	78 60	78 53	81 57	82 54	85 60	86 57	83 60	85 60	84 61	80.0 56.0	
OAKLAND 2E	MAX MIN	92 61	88 58	85 65	85 50	79 56	82 47	83 53	80 60	75 64	78 62	78 61	77 50	73 47	77 48	83 60	86 58	78 63	64 57	73 62	79 52	75 57	80 53	81 58	80 52	75 57	82 54	84 53	85 60	90 69	84 66	81.2 56.9	
ONAWA	MAX MIN	90 62	91 58	86 64	82 53	80 52	85 47	87 55	82 63	75 66	79 62	80 66	80 69	74 44	82 44	83 53	80 60	80 62	70 58	71 60	81 60	78 60	81 60	81 62	81 60	80 64	78 56	86 59	88 69	89 69	82 85	81.7 59.1	
OSAGE	MAX MIN	86 51	83 57	83 63	76 55	76 51	79 46	79 52	81 57	75 63	84 60	85 60	78 68	71 47	77 48	79 58	81 63	77 65	72 54	62 57	75 52	69 56	80 56	79 60	77 54	80 60	82 53	84 55	87 59	85 60	86 65	85 67	79.1 57.2
OSCEOLA	MAX MIN	90 60	87 60	87 66	84 58	78 54	80 56	84 58	84 58	78 65	87 60	85 63	80 63	74 50	80 51	86 58	85 62	82 60	79 64	76 58	75 55	79 58	80 58	78 58	81 60	76 60	85 62	86 62	88 62	89 62	89 67	87 67	82.5 59.8
OSKALOOSA	MAX MIN	87 54	87 62	84 65	81 57	77 55	81 53	82 53	84 59	83 62	86 66	88 65	82 69	73 51	80 46	87 58	85 64	84 70	79 57	74 62	76 58	78 52	79 55	80 59	80 63	78 65	85 65	89 60	89 66	90 71	89 66	82.7 59.9	
OTTUMWA AP CAA	MAX MIN	86 57	86 65	84 68	81 60	78 56	79 57	80 58	83 62	83 66	86 65	88 63	83 65	75 52	80 53	88 59	82 65	83 67	78 62	76 59	72 59	80 55	80 60	80 62	76 59	83 58	85 63	88 64	88 66	89 67	88 70	88 81	82.1 61.3
PERRY 2SE	MAX MIN	90 54	86 59	84 65	78 57	76 55	81 48	81 51	82 57	77 65	83 59	82 63	77 68	74 46	78 57	84 60	88 66	81 66	75 55	73 62	77 52	77 52	82 56	83 53	81 55	80 53	83 56	88 56	89 56	88 65	92 65	86 65	81.8 57.1
POCAHONTAS	MAX MIN	89 56	86 57	83 56	74 55	77 52	81 49	86 56	84 59	74 60	81 62	79 62	78 63	72 48	78 51	82 60	78 66	70 65	69 56	76 58	81 51	81 57	79 56	78 61	78 60	83 57	84 56	85 57	86 60	88 68	83 64	80.1 57.9	
PRIMGHAR	MAX MIN	87 60	85 62	82 59	78 53	75 50	80 55	83 57	84 63	77 63	79 61	78 65	77 67	78 44	79 53	79 60	79 60	79 60	75 57	78 50	77 59	75 58	81 58	77 51	77 60	80 57	84 59	85 61	85 63	87 63	87 66	79 66	80.2 58.0
RED OAK	MAX MIN	91 63	87 59	84 65	85 50	80 57	82 47	83 52	79 63	74 65	78 62	77 66	76 68	74 47	77 47	83 60	85 63	78 63	76 57	75 63	79 53	78 56	80 54	81 58	80 51	73 56	81 55	82 54	84 59	85 70	89 65	84 65	80.6 58.1
ROCK RAPIDS	MAX MIN	86 60	81 55	82 59	75 52	74 50	80 49	83 54	84 66	75 65	76 62	76 63	75 59	72 47	80 54	81 63	79 59	77 58	79 58	69 58	68 49	75 58	76 58	75 53	79 54	80 54	83 57	84 54	86 57	86 63	84 65	81 62	78.4 57.4
ROCKWELL CITY	MAX MIN	89 55	85 58	83 62	79 54	77 52	82 51	85 53	85 57	76 61	83 61	80 63	79 67	72 46	79 50	84 59	85 61	80 63	76 56	72 60	77 52	74 56	82 56	81 59	79 60	78 58	83 57	86 57	87 58	90 60	82 65	81.2 57.6	
SAC CITY	MAX MIN	86 60	86 60	82 64	74 58	75 54	83 55	87 57	84 60	72 64	81 62	78 66	75 61	73 49	80 54	83 62	83 63	78 64	73 58	69 60	82 54	74 61	84 54	73 56	76 57	83 63	85 58						79.3 59.0
SANBORN	MAX MIN	85 59	82 57	81 59	72 52	73 51	80 52	83 55	85 63	72 61	79 60	78 64	77 66	73 45	79 52	81 60	77 59	74 60	78 57	75 57	78 50	75 60	78 58	76 53	76 58	78 55	81 57	84 57	85 58	85 62	87 67	82 65	79.1 57.9
SARATOGA 2E	MAX MIN	82 44	80 53	81 60	73 51	74 49	77 43	79 46	79 55	83 59	84 59	79 54	69 63	75 45	79 45	81 55	75 60	73 64	64 49	73 55	70 51	78 52	76 56	75 60	79 58	80 51	81 51	85 54	83 56	82 63	83 64	77.7 54.1	
SHELDON	MAX MIN	85 60	83 55	80 60	74 52	74 50	78 50	81 52	83 64	74 61	77 63	76 67	76 46	72 51	79 59	79 57	77 55	74 48	69 57	75 48	75 61	77 56	75 52	76 56	78 51	81 56	82 56	83 57	85 61	85 67	79 66	78.0 57.1	
SHENANDOAH	MAX MIN	93 64	84 61	87 53	87 58	81 58	82 60	83 63	81 65	73 62	79 68	78 50	77 60	75 66	79 64	87 66	85 64	82 62	80 54	76 56	81 56	82 60	81 56	77 60	82 56	84 56	87 57	89 61	91 61	85 68	82.3 59.8		
SIBLEY	MAX MIN	86 58	82 49	80 56	79 54	75 50	81 44	84 53	80 63	77 59	75 63	71 65	78 45	79 50	78 61	76 56	76 59	76 53	67 45	72 59	74 55	74 56	75 51	76 52	75 52	71 52	81 52	82 52	84 61	83 63	83 62	77.8 55.2	
SIDNEY	MAX MIN	94 60	88 64	86 69	89 59	81 57	81 56	85 58	81 62	79 64	76 61	80 66	78 66	74 49	79 52	83 62	86 64	84 63	79 61	79 54	80 56	79 57	81 61	82 57	80 61	75 57	82 61	84 60	88 64	88 70	90 67	84 67	82.4 60.5
SIGOURNEY	MAX MIN	84 56	85 63	83 65	81 59	78 62	80 58	81 58	87 64	83 66	87 63	88 68	83 57	73 51	78 58	85 64	84 67	85 69	79 59	78 63	71 57	79 57	78 										

DAILY TEMPERATURES

IOWA
JULY 1950

Table 5-Continued

Station		Day of month																														Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
TOLEDO	MAX	85	81	83	79	75	77	80	83	83	82	86	81	72	78	86	86	81	76	77	74	77	81	79	80	79	83	87	88	87	89	86	81.3	
	MIN	53	60	64	57	55	51	52	58	63	65	62	65	49	47	58	59	67	55	61	56	52	54	59	55	54	56	59	57	60	64	64	57.8	
TRIPOLI	MAX	84	82	85	78	78	80	80	81	80	83	86	82	72	78	83	85	80	79	70	76	76	81	79	79	81	83	87	88	87	88	86	81.2	
	MIN	52	57	63	55	53	51	53	58	61	63	61	68	48	50	59	64	67	55	59	55	55	59	61	55	59	55	57	59	60	64	66	58.1	
VINTON	MAX									80	85	85	89	84	74	82	85	88	81	80	78	75	80	82	83	83	81	87	86	91	90	91	87	83.6
	MIN									62	65	56	70	49	45	58	58	67	53	61	57	49	54	59	58	54	57	56	55	58	62	66	57.8	
WASHINGTON	MAX	84	86	82	82	79	80	84	85	86	87	89	89	74	80	86	83	85	81	80	78	75	80	82	83	81	82	76	84	88	90	89	90	83.4
	MIN	50	60	62	58	56	56	55	55	59	64	60	67	52	49	55	65	67	57	63	57	51	57	58	57	55	55	55	60	62	64	68	68	58.5
WAUKEE	MAX	88	85	85	80	79	80	82	81	80	85	84	77	73	79	86	87	82	80	72	76	77	81	78	79	77	83	88	88	89	91	87	81.9	
	MIN	53	64	67	60	58	56	57	60	66	66	65	70	52	53	62	64	66	60	65	55	54	60	62	60	60	62	60	63	65	64	69	70	61.5
WAUKON	MAX	79	80	81	75	76	79	74	79	82	83	84	73	69	75	79	81	78	78	68	74	71	79	76	77	81	81	84	86	84	82	83	78.4	
	MIN	47	58	59	56	60	53	60	56	54	59	58	62	46	47	56	60	62	55	55	54	51	56	53	59	57	80	82	81	82	81	82	83	56.8
WEBSTER CITY	MAX	90	86	83	77	78	83	83	84	78	85	85	78	73	80	86	90	78	77	68	76	78	85	83	79	82	85	86	90	90	92	87	82.4	
	MIN	51	54	63	59	53	47	51	57	65	63	62	68	47	47	57	61	66	54	61	54	54	52	58	55	57	55	57	55	56	65	65	57.1	
WILLIAMSBURG	MAX	83	81	81	77	75	76	80	82	84	83	87	83	72	77	85	84	82	77	78	72	75	77	78	78	77	81	82	85	87	88	84	80.4	
	MIN	52	61	63	58	55	57	55	57	68	65	62	69	52	50	58	65	68	52	62	57	52	57	59	59	56	58	62	60	62	65	67	59.4	
WINTERSSET	MAX	93	88	89	83	80	81	84	85	76	85	84	78	75	79	85	86	83	78	75	80	83	78	83	77	85	85	88	88	91	90	82.9		
	MIN	59	62	67	55	56	52	56	58	67	80	66	68	48	50	59	62	63	58	64	54	55	57	59	54	58	55	61	59	62	66	66	59.2	
WOODWARD 7N	MAX	90	84	84	78	75	79	80	81	77	83	82	78	72	78	85	87	80	76	69	77	73	80	80	80	80	83	87	86				80.1	
	MIN	58	61	66	56	56	53	50	61	65	62	64	65	49	51	60	61	65	57	60	56	55	55	60	55	58	56	60	59				58.4	

EVAPORATION AND WIND

Table 6

Station		Day of month																														Total or ave	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
Ames 3 SW	EVAP	.27	.21	.28	.27	.21	.21	.30	.32	.20	.21	.28	.08	.25	.34	.26	.27	.22	.15	.08	.21	.16	.22	.19	.25	.21	.22	.25	.27	.37	.27	.24	7.27
	WIND	52	8	13	14	13	2	33	66	60	20	63	53	38	76	105	110	36	22	57	47	11	26	28	21	18	16	6	17	56	73	44	1204
Cherokee	EVAP	.25	.23	.44	.08	.18	.24	.31	.21	-	.15	.11	.44	.17	.30	.18	.18	.21	-	-	.20	.10	.22	.14	.28	.14	.24	.27	.24	.28	.21	.31	6.75B
	WIND	42	17	28	52	12	9	13	19	38	23	17	77	61	82	57	22	19	12	18	20	18	37	47	16	36	16	9	46	36	43	31	973
Iowa City	EVAP	.25	-	.16	.25	.25	.24	.26	.29	.28	.16	.27	.22	.30	.23	.25	.14	.17	.16	.18	.11	.16	.19	.17	.27	.11	.16	.17	.21	.24	.26	.22	6.54B
	WIND	62	37	13	46	55	27	27	41	42	12	36	28	109	32	67	46	43	10	53	83	12	16	19	55	8	17	13	12	16	39	37	1111

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																														Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
1 Inch	7 AM	64	69	70	66	64	63	65	67	69	68	70	72	59	61	66	68	72	69	69	62	62	65	66	65	66	67	67	68	70	73	70	66.8	
	12 M	86	89	84	79	78	80	83	80	78	83	84	74	76	79	81	86	83	77	70	78	83	83	77	83	83	86	88	90	90	80	87	81.9	
	7 PM	86	86	83	75	79	83	82	81	75	82	80	73	81	79	79	83	84	72	65	79	77	80	80	82	78	78	87	88	85	82	85	80.3	
2 1/4 Inches	7 AM	64	68	70	66	65	63	65	67	70	68	70	72	60	61	66	68	72	68	69	62	63	64	67	65	66	67	67	68	70	73	71	66.9	
	12 M	83	89	83	78	77	78	82	79	78	83	84	74	77	79	80	86	82	76	71	78	81	83	77	83	81	85	87	90	89	81	85	81.3	
	7 PM	85	85	82	75	77	80	79	80	75	81	80	71	77	78	79	83	82	72	66	77	76	80	78	80	79	79	84	86	84	82	84	79.2	
4 Inches	7 AM	87	71	73	70	68	66	68	70	71	70	71	73	63	65	68	70	74	70	70	63	66	66	69	67	69	69	69	71	73	75	73	69.3	
	12 M	75	80	78	75	74	75	75	74	76	76	78	73	70	72	73	76	77	76	71	71	75	76	73	76	74	78	78	81	81	78	77	75.5	
	7 PM	85	85	82	78	78	81	81	80	76	82	80	74	79	80	79	83	83	74	68	78	76	80	79	82	79	82	86	87	86	82	86	80.4	
8 Inches	7 AM	70	74	74	73	71	70	71	72	73	71	73	74	68	69	71	72	75	73	70	66	69	69	71	70	72	72	72	74	76	74	71.8		
	12 M	70	74	74	72	70	70	71	72	73	72	73	73	68	69	70	72	74	73	70	67	70	70	71	71	71	72	72	73	74	76	74	71.8	
	7 PM	78	80	78	76	75	76	77	76	74	77	77	74	74	75	75	78	79	74	70	73	73	75	75	77	76	78	80	81	81	79	80	76.5	
20 Inches	7 AM	68	68	69	70	69	69	68	69	69	68	69	69	68	69	68	68	68	69	70	69	68	68	68	68	68	68	69	69	70	71	71	68.7	
	12 M	68	69	70	70	69	69	69	69	69	69	69	69	68	68	68	68	68	69	70	69	68	68	68	68	68	68	69	69	70	71	71	69.1	
	7 PM	68	69	69	69	68	68	68	68	68	68	68	68	68	68	68	68	68	68	69	69	67	67	67	68	68	68	68	69	70	71	71	68.5	
40 Inches	7 PM	62	62	62	62	63	63	63	63	63	63	63	63	63	63	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	65	65	63.5	
	7 PM	57	57	57	57	57	58	58	58	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	59	60	60	60	60	60	60	58.6
4 Feet Above Ground	7 AM	63	67	68	65	61	63	65	67	68	66	69	71	56	60	66	66	66	69	64	70	60	59	65	65	63	61	65	67	67	69	73	68	65.4
	12 M	82	80	80	75	73	75	77	79	75	80	82	72	68	75	82	84	76	68	64	71	72	77	75	76	79	82	83	84	84	85	81	77.3	
	7 PM																																	

STATION INDEX

1954
JULY 1954

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9	41 02	94 12	1200	6P	6P	CLOSED	3-23-50	Morse 4 mi. SW	5742	Johnson	10	41 41	91 28			L. J. Fuhrmeister	3 4	
Akron	0088	Plymouth	1	42 49	96 33	1153	6P	6P	Orlan C. Moore	3	Mount Ayr 2 mi. W	5769	Ringgold	9	40 44	94 14	1214	6P	6P	H. L. Correll	2 3 4 5
Albia	0112	Monroe	6	41 02	92 46	848	6P	7A	Arthur L. Freed	2 3 5	Mount Pleasant	5796	Henry	21	40 57	91 32	720	6P	6P	A. W. Patterson	2 3 4 5
Algona	0133	Josiah	6	43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	Noville	5823	Woodbury	11	42 28	98 04			Risar W. Widmark	3 4	
Chariton	0149	Wayne	9	40 42	93 23				CLOSED	6-27-50	Muscataine No. 1	5837	Muscataine	14	41 26	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5
Allison	0157	Butler	4	42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Muscataine No. 2	5842	Muscataine	14	41 25	91 03	546		7A	Robert B. Hagy	3
Alta	0173	Buena Vista	20	42 40	95 18	1513	7P	7A	F. Edna Allen	2 3 5	Muscataine 6 mi. W	5847	Muscataine	14	41 30	91 03			CLOSED	5-23-50	
Alton	0181	Sioux	7	42 59	96 01	1303	7P	7P	W. S. Slagle	2 3 5	New Hampton	5873	Floyd	8	42 59	92 34	990	7P	7A	William A. Cory	3
Ames 3 mi. NW	0205	Story	21	42 00	93 39	1004	7P	7P	Charles M. Brown	2 3 4 5 6 7	Newton	5922	Chickasaw	27	43 04	92 19	1156	7P	7P	Loddy Rrdicka	2 3 5
Anamosa 1 mi. NW	0213	Jones	27	42 07	91 18	873	7P	7P	State Reformatory	2 3 5	North English	6076	Iowa	4	41 29	92 05	789			Ernest E. Andrews	3 4
Atlantic 1 mi. E	0364	Cass	16	41 24	94 59	1110	6P	7A	Roy L. Fancolly	2 3 5	Northwood	6103	North	4	43 27	93 13	1222	7P	7P	Charles A. Walker	2 3 5
Atlantic AP CAA	0369	Cass	16	41 24	95 02	1152	MID	MID	Always Com. Sta.	2 3 4 5 7	Korwich RCS Exp. Pm. 2E	6119	Page	22	40 45	95 12	1132	7P	7P	Soll Cons. Service	2 3 4 5 7
Audubon 2 mi. S	0385	Audubon	16	41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	16	41 19	95 23	1150	6P	6P	Ward D. Rainabe	2 3 5
Augusta	0389	Des Moines	21	40 46	91 17	522			Glen Wood	3	Oasis	6186	Johnson	10	41 43	91 24			Ed. Kadera	3 4	
Bancroft	0463	Kossuth	6	45 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	Oelwein	6200	Fayette	27	42 40	91 55	1036	6P	6P	CLOSED	5-16-50
Bartlett 3 mi. E	0493	Preston	26	40 53	95 44				R. L. Kilpatrick	3	Onawa	6243	Monona	15	42 02	98 08	1050	7P	7A	W. J. Oliver	2 3 5
Beaver	0549	Boone	6	42 02	94 08				Archie E. Sparks	3 4	Osage	6305	Mitchell	4	43 17	92 48	1170	6P	6P	L. J. Lamprecht	2 3 5
Bedford 1 mi. W	0576	Taylor	28	40 41	94 44	1815	6P	6P	H. J. Chambers	2 3 5	Osceola	6316	Clarke	6	41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5
Belle Plaine	0600	Beaton	10	41 54	92 17	855	7P	7P	Walter C. Rabe	2 3 5	Oskaloosa	6327	Mahaaka	6	41 17	92 49	813	6P	6P	Clif. Bergtresser	2 3 5 7
BelleVue Lock & Dam 13	0608	Jackson	14	42 18	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Ottumwa AP CAA 5 mi. W	6389	Wapello	6	41 05	92 27	842	MID	MID	Always Com. Sta.	2 3 4 5 7
Blockton 2 mi. S	0745	Taylor	19	40 36	94 29	1081			Glen A. Cobb	3	Ottumwa	6391	Wapello	6	41 00	92 24	820			Winfrey Elnear	3
Bloomfield 3 mi. W	0753	Davis	8	40 47	92 26	825	7P	7P	Mrs. Leo Foster	2 3 5	Pella	6527	Marietta	6	41 24	92 55	875			Arthur E. Varrick	3
Boone	0807	Boone	6	42 04	93 53	1126	6P	6P	K. G. Kolb	2 3 5	Perry 2 mi. SE	6566	Dallas	20	41 51	94 05	975	7P	7P	Thomas H. Hastie	2 3 5
Britt	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	Pocahontas	6718	Pocahontas	6	42 44	94 40	1228	3P	3P	Eugene A. Mahon	2 3 5
Burlington WB Airport	1063	Des Moines	14	40 47	91 08	895	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Pringle	6800	O'Brien	11	43 05	95 38	1517	6P	6P	H. A. Ballard	2 3 5
Carroll	1233	Carroll	20	42 04	94 52	1280	7P	7A	Ben H. Schenkelberg	2 3 5	Red Oak	6840	Montgomery	16	41 01	95 13	1077	7P	MID	Clarence H. Totty	2 3 5
Cascade	1257	Dubuque	12	42 18	91 00	880	7P	7P	C. J. Neiders	2 3 4 5	Red Oak 1 mi. NW	6841	Montgomery	16	41 01	95 14			Mrs. Z. M. Cozad	3	
Castana 4 mi. E	1277	Monona	11	42 04	95 49				Bob Zimmerman	2 3 5 7	Rensen	6975	Plymouth	7	42 49	93 58			Municipal P & L Pl.	3 4	
Cedar Falls	1300	Black Hawk	4	42 32	92 27	875	7P	7P	E. J. Cahle	3	Ringsted	7058	Emmet	6	43 18	94 30			Harvilo A. Trees	3 4	
Cedar Rapids No. 1	1319	Linn	4	41 59	91 39	813	7P	7A	John T. Wurster	2 3 5 7	Elverton	7085	Fremont	16	40 41	95 35	920			William Stubbs	3
Cedar Rapids No. 2	1324	Linn	4	41 58	91 40				C. W. Simon	3	Rock Rapids	7147	Lyon	1	43 28	96 10	1341	7P	7P	George Raveling	2 3 4 5 7
Centerville	1354	Appanoose	3	40 43	92 53	1013	7P	7P	Earl McIntire	2 3 4 5	Rockwell City	7161	Calhoun	20	42 24	94 37	1223	7P	7P	F. C. Beitelpracher	2 3 4 5
Chariton 3 mi. E	1394	Lucas	5	41 03	93 15	940	7P	7P	Ellis Shaw	2 3 5	Sac City	7312	Sac	20	42 26	94 59	1274	6P	6P	W. Lloyd Weary	2 3 5
Charles City	1402	Floyd	4	43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Saint Ansgar 2 mi. S	7326	Mitchell	4	43 21	92 55			Irvin L. Halverson	3 4	
Charokas	1442	Cherokee	11	43 45	93 35	1338	7P	7P	J. Earl Wirth	2 3 4 5 6 7	Saint Charles	7340	Madison	8	41 18	93 47			Rose E. Rice	3 4	
Clarence	1528	Cedar	4	41 53	91 03				Ronald W. Harness	3	Sandora	7386	O'Brien	7	43 11	95 29	1552	7P	7P	Mias Eunie O. Dow	2 3 5
Clarinda	1533	Page	17	40 44	95 01	1004	7P	7P	Walter L. Warkland	2 3 5	Saratoga 2 E	7410	Howard	22	42 23	92 22			Don A. Fairchild	2 3 5 7	
Clarion	1541	Wright	2	42 44	93 44	1170	7P	7P	George Reeder	3 5	Sheffield	7572	Franklin	4	42 54	93 13			Richard J. Galvin	3 4	
Clinton No. 1	1635	Clinton	14	41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Sheldon	7594	O'Brien	7	43 10	95 51	1418	7P	7P	Ross E. Forward	2 3 5
Clinton No. 2	1640	Clinton	14	41 50	90 11				David M. Swift	3	Shell Rock	7602	Butler	8	42 45	92 35			Elmer J. Apfel	3 4	
Columbus Junction	1731	Louisia	10	41 17	91 22	595	6P	6P	Alice Best	2 3 5	Shenandoah	7613	Page	16	40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5 7
Coon Rapids	1793	Carroll	20	41 51	94 39				Charles W. Smith	3 4	Sibley	7664	Osceola	1	43 24	95 45	1494	6P	6P	R. D. Steward	2 3 5
Corning 1 mi. W	1833	Adams	17	41 00	94 45	1285	7P	7A	W. Earl Gibson	2 3 5	Sidney	7669	Preston	16	40 43	95 38	1050	6P	6P	James B. Shearer	2 3 5
Council Bluffs 6 mi. NE	1888	Pottawattamie	15	41 20	95 49				Mrs. H. O. Crane	3 4	Sigourney	7678	Keokuk	21	41 30	92 12	780	7P	7A	Grace L. Sanderson	2 3 5
Council Bluffs 5 mi. NE	1889	Pottawattamie	15	41 19	95 49				Perry C. Crandall	2 3 5 7	Sioux Center	7700	Sioux	1	43 05	96 12	1456			Richard J. Kroon	3 4
Cresco	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Sioux City 8 mi. N	7703	Plymouth	15	42 36	96 54			Leo Vondrak	3	
Creston	1962	Union	19	41 03	94 22	1500	7P	7A	Willis Spangler	2 3 5	Sioux City WB Airport	7709	Woodbury	15	42 33	96 23	1093	MID	MID	U.S. Weather Bureau	2 3 4 5 7
Cumberland 5 mi. NW	2007	Cass	17	41 18	94 55	1255	6P	6P	Carl E. Pollock	2 3 5	Sioux Rapids	7713	Woodbury	15	42 32	96 25			Dan Keckley	3	
Cushing 3 mi. NE	2026	Ida	11	42 30	95 39	1350	7P	7P	H. P. Lasher	2 3 5	Spencer 1 mi. N	7744	Monona	15	41 59	95 46			John T. Wade	3 4	
Dakota City	2037	Rusholt	8	42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Spillville	7855	Winnebiek	14	43 12	91 57			Louis J. Benda	3 4	
Davenport WB City	2069	Scott	14	41 30	90 38	579	MID	MID	U.S. Weather Bureau	2 3 5 7	State Center	7925	Marshall	10	42 01	93 10	1088	7P	7P	Otha A. Sweet	2 3 5
Decorah	2110	Winnebiek	24	43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Stora Lake 2 mi. E	7979	Buena Vista	20	42 30	95 11	1455	6P	6P	Radio Station KAYL	2 3 5
Decorah 2 mi. S	2112	Winnebiek	24	43 13	91 47	880	7P	7A	Nora A. Carlson	2 3 5	Strawberry Point	8009	Clayton	14	42 41	91 31			W. H. Iwanigier	3 4	
Delaware 2 mi. W	2136	Delaware	12	42 28	91 23	1083	7P	7P	Clair E. Paris	2 3 5	Taber 6 mi. NW	8131	Willis	15	40 57	95 43			Raymond C. Tate	2 3 5	
Delmon 1 mi. S	2171	Crawford	4	42 00	95 22				E. M. Hugg	2 3 5 7	Tingley	8255	Ringgold	18	40 51	94 12	1275	7P	7P	James A. Verploegh	2 3 5
Derby	2195	Lucas	8	40 56	93 27				Lloyd A. Kirk	3 4	Tipton	8265	Cedar	4	41 46	91 04	818	7P	7P	Edward S. Dean	2 3 5
Des Moines WB Airport	2203	Polk	6	41 32	93 39	954	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Titonka 6 mi. NE	8270	Kossuth	6	43 17	94 00			John W. Palliar	3	
Des Moines WB City	2208	Polk	6	41 33	93 37	800	MID	MID	U.S. Weather Bureau	2											

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

AUGUST 1950
Volume LXI No. 8



KANSAS CITY: 1950

IOWA - AUGUST, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

August 1950 with an average temperature of 67.7 degrees, was the third coolest August since the beginning of Iowa weather records on a statewide basis in 1873. Only August 1915 with an average of 65.9 and August 1885 with an average of 66.9 have been cooler. It was the third summer month with below-normal temperatures, causing the summer as a whole to be one of the coolest during the period of comparable records. The record low temperature for the State, 30°, was equalled on the 20th of the month at Britt and Sibley. The low temperature of 30° was first recorded at Elkader on the 30th of August, 1893, and later equalled at Mason City on the 30th of August, 1915.

Precipitation totals averaged well above normal in the southwest section, near normal in the west-central and south-central sections, and below normal in all other sections of the state. The range in precipitation was from more than 9 inches near Council Bluffs to 0.36 at Emmetsburg in Palo Alto County. Most of the northeastern half of the State received less than half the normal rainfall for August.

The month in Iowa opened with a period of weak, uncertain pressure patterns and mostly fair weather with moderate temperatures. As the weak high pressure system, which had dominated the State during this period, moved eastward there were scattered showers over the Missouri Valley. The high pressure system then stagnated over the Great Lakes, and there was a return to generally fair weather over Iowa although a few scattered showers were reported. More showers occurred on the 8th when a weak squall line crossed the State. On the 10th a cold front moved southward across the State, accompanied by rather general showers and followed by cooler weather as the colder air deepened over the State. This new high pressure system also tarried over the Great Lakes and Ohio Valley. Small wave disturbances developed and moved eastward to the south of Iowa in this period, causing some of the heaviest rains of the month in the southwestern counties. On the 14th the cool air was replaced by warmer air as a warm front moved eastward across the State.

The warm weather did not last long. On the morning of the 17th, a new mass of cold air from the interior of western Canada entered the State. On the night of the 19th a brilliant aurora was observed from all parts of Iowa. This display immediately preceded a second and stronger surge of the cold air mass into Iowa. Temperatures on the morning of the 20th fell to record lows in Iowa, the date preceding the record low temperatures of earlier years by ten days. This was the strongest surge of cold air into the State during the month. It was followed by weaker surges during the last decade. Mostly fair weather prevailed during this period except for widespread showers on the 27th-28th when a weak cold front lay across the State.

STORM AND CROP DAMAGE

Storms during August were such that severe damage was limited to local areas. On the 8th of August, high winds and lightning damaged power lines in Waterloo. On the 10th, high winds damaged docks and boats on the south shore of Clear Lake. The same date, damage to crops from high winds and hail near Clear Lake and near Forest City totaled more than \$70,000. On the 14th of August another hailstorm in the vicinity of Forest City, this time near Thompson, laid waste 25 square miles of crop land, with the damage estimated at \$250,000.

While the cool weather was pleasant for most persons, it was not favorable for the development of the State's major crops. At the close of the month, corn was still retarded, with only 23 per cent of the crop in the process of denting, when at least half of the crop should have been well dented and hard. It was anticipated that only two-thirds of the crop had prospects of maturing without frost damage. A very small portion of the crop had already been damaged beyond recovery by the low temperatures of the 20th. The damage was largely limited to crops on low lying bottomlands in the northwest where air drainage was poor.--CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages --mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
AUGUST 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
Burlington WB AP	S	11	8.2	23	NW	19	88	92	68	71	7	3	2	2	0	0	14	54	6.5	See Table 2
Charles City WB City	-	-	5.0	20	SW	24	-	-	-	-	1	4	1	0	0	1	7	64	4.7	
Davenport WB City	-	-	-	-	-	-	-	-	-	-	8	1	4	1	0	0	14	-	-	
Des Moines WB City	S†	11†	8.3	25	N	10	84†	90†	64†	65†	5	5	3	1	0	0	14	56	6.3†	
Dubuque WB City	-	-	4.8	23	NW	10	-	-	-	-	7	5	1	1	0	0	14	62	6.3	
Sioux City WB AP	ESE	10	8.2	32	NW	17	84	92	61	62	6	4	4	2	1	0	17	67	5.5	

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	75.7	102	54	4.17			1873	69.1	101	41	6.64		11	1873	70.5	101	41	3.01		8
1874	74.9	99	55	3.12			1874	69.1	97	35	3.43		7	1874	73.4	116	33	2.84		9
1875	68.9	92	41	4.04			1875	74.3	104	44	4.05		9	1875	73.6	107	34	2.42		7
1876	73.2	96	46	5.15			1876	74.1	101	33	3.95		9	1876	79.2	114	46	3.48		8
1877	71.9	100	53	4.36			1877	71.1	99	37	4.33		9	1877	77.8	108	49	3.99		8
1878	74.4	100	50	3.22			1878	70.0	101	38	4.77		9	1878	75.7	105	42	3.82		7
1879	72.0	100	42	2.70			1879	76.1	103	33	1.81		5	1879	70.7	99	38	4.72		10
1880	72.5	104	41	4.77			1880	71.9	104	36	3.88		8	1880	70.7	101	39	6.44		14
1881	76.5	104	48	2.71			1881	71.7	107	34	3.32		9	1881	75.1	103	38	1.94		6
1882	71.5	96	43	1.61			1882	71.0	101	40	3.78		10	1882	72.2	102	34	3.17		7
1883	69.2	98	42	2.58			1883	76.6	108	40	2.68		6	1883	74.0	101	40	5.07		10
1884	68.5	93	44	4.09			1884	73.7	103	40	2.19		7	1884	71.8	102	41	5.88		11
1885	66.9	98	40	5.90			1885	65.9	91	30	2.81		8	1885	72.5	102	41	3.43		8
1886	74.2	103	34	2.02			1886	74.0	106	35	2.58		7	1886	68.9	100	33	3.55		9
1887	70.8	103	34	2.75			1887	69.4	102	31	2.29		7	1887	80.6	109	40	1.49		4
1888	70.4	110	40	4.37			1888	76.0	113	38	3.61		8	1888	74.0	104	37	2.54		8
1889	71.3	104	37	1.75			1889	71.5	103	38	2.59		7	1889	73.0	100	36	2.34		6
1890	68.1	102	34	3.25			1890	69.3	98	39	3.35		8	1890	67.7	95	30	2.39	T	7
1891	69.1	106	34	4.24		8	1891	72.1	102	37	5.04		8	1891						
1892	71.4	102	40	2.24		5	1892	73.8	102	42	3.06		8	1892	PERIOD	72.2		3.55	T	
1893	69.4	101	30	2.32		5	1893	70.6	102	38	5.42		12	1893						
1894	74.6	108	38	1.58		4	1894	71.7	100	40	5.35		10	1894						
1895	71.9	103	37	4.43		7	1895	72.4	99	39	3.47		8	1895						
1896	71.7	104	34	3.52		8	1896	73.5	103	47	3.80		10	1896						
1897	68.9	104	35	1.86		6	1897	67.9	99	35	2.36		8	1897						
1898	71.2	103	40	3.44		6	1898	72.7	100	37	6.42		9	1898						
1899	74.4	100	41	3.68		7	1899	71.9	102	37	2.44		6	1899						
1900	77.4	103	44	4.65		6	1900	74.4	113	41	2.42		8	1900						
1901	73.8	105	40	1.29		5	1901	72.6	102	37	3.30		8	1901						
1902	69.1	98	37	6.58		11	1902	72.2	100	43	7.10		12	1902						

See reference notes following Station Index.

CLIMATOLOGICAL DATA

Table 2

IOWA
AUGUST 1950

Station	Temperature								Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																			
Alta	67.1 M	- 5.5	90	15	39	20	36	1		1.35	- 2.10	.62	17	.0	0		7	6	0
Cherokee	67.1 M	- 5.0	90	16	34	20	33	1		1.13	- 2.17	.30	12	.0	0		6	3	0
Emetsburg	67.3		90	15	38	20	43	1		.36		.32	28	.0	0		2	1	0
Estherville	68.3	- 1.9	95	15	36	20	34	5		.70	- 2.97	.35	16	.0	0		7	1	0
Inwood 2 W	67.0 M	- 4.8	92	15+	33	20	48	3		1.30	- 1.71	.58	17	.0	0		6	2	0
Lake Park																			
Le Mars	68.9 M	- 3.3	91	16	38	20	18	4		2.12	- .76	.62	7	.0	0		7	4	0
Milford 4 NW	66.2	- 3.9	92	15	35	20	61	2		1.41	- 2.24	.54	7	.0	0		5	3	0
Pocahontas	66.3 M	- 5.2	90	9+	37	20	60	2		1.50	- 2.06	.82	28	.0	0		4	2	0
Primghar	68.1	- 4.4	91	15+	38	20	31	2		.73	- 2.77	.42	7	.0	0		5	1	0
Rock Rapids																			
Sanborn	67.1	- 4.5	91	16	34	20	46	2		.99	- 2.00	.37	10	.0	0		7	2	0
Sheldon	66.7	- 4.2	90	16	38	20	52	1		1.54	- 1.96	.73	7	.0	0		7	2	0
Sibley	66.0	- 5.6	90	16	33	20	59	1		.73	- 2.71	.38	7	.0	0		8	1	0
Sioux Rapids	65.5	- 4.1	90	15	30	20	65	1	1	.68	- 2.81	.27	27	.0	0		6	1	0
Spencer 1 N	66.7 M	- 5.2	92	15+	34	20	60	4		.85	- 2.65	.85	28	.0	0		1	1	0
Storm Lake 2 E	65.6 M	- 5.9	90	15	34	20	60	1		.69	- 2.91	.47	28	.0	0		5	1	0
DIVISION	66.6 M	- 5.3	88	8+	38	20	58			1.71	- 1.63	.87	17	.0	0		6	2	0
DIVISION	66.9	- 4.6								1.11	- 2.27			.0					
NORTH CENTRAL DIVISION																			
Algona	67.3	- 4.1	91	15	39	20	43	2		1.33	- 2.74	1.00	28	.0	0		3	1	1
Allison	68.5 M	- 2.7	92	9	37	20	30	4		.41	- 3.29	.21	10	.0	0		3	0	0
Bancroft	68.6	- 1.6	93	91	37	20	32	6		.77	- 2.93	.58	28	.0	0		3	1	0
Britt	67.4 M	- 3.9	94	15+	30	20	51	5	1	1.32	- 2.72	.80	10	.0	0		4	2	0
Charles City	66.9	- 3.4	90	9	39	20	45	1		2.27	- 1.89	2.06	10	T	0		6	1	1
Clarion																			
Dakota City	66.4	- 5.1	91	9	32	20	59	1	1	1.03	- 2.67	.65	10	.0	0		5	1	0
Forest City	67.1	- 4.5	90	9	37	20	44	1		1.57	- 1.98	.51	28	.0	0		6	4	0
Hampton	65.9	- 4.6	92	9	36	20	62	2		2.44	- 1.36	1.21	15	T	0		5	2	1
Mason City 3 N	67.4	- 4.3	89	9	38	20	37			1.06	- 2.68	.76	10	.0	0		6	1	0
Mason City CAA AP	66.6	- 3.6	92	9	35	20	50	1		1.59	- 2.57	.72	10	.0	0		3	2	0
Northwood	65.5	- 4.7	91	9	35	20	72	1		2.19	- 1.97	1.65	10	.0	0		6	2	1
Osage	66.1 M	- 3.6	91	9	36	20	57	1		1.56	- 2.60	.98	11	.0	0		5	2	0
DIVISION	68.4	- 4.5	90	9	37	20	44	1		1.19	- 2.30	1.02	11	.0	0		3	1	1
DIVISION	66.9	- 4.0								1.44	- 2.41			T					
NORTHEAST DIVISION																			
Cascade	67.0 M		90	15+	35	20	36	2		.81		.26	10	.0	0		6	1	0
Cresco	65.5	- 4.0	91	9	34	20	69	1		1.77	- 1.59	1.35	10	.0	0		3	2	1
Decorah	67.2		91	16	37	20	39	1		2.47		1.25	10	.0	0		7	3	1
Delaware 2 S	62.9	- 7.3	87	16	31	20	106		1	2.32	- 1.86	1.20	11	.0	0		6	4	1
Dubuque 2 W	65.7	- 4.7	89	9	36	20	57			1.25	- 2.45	.40	15	.0	0		6	3	0
Dubuque L & D 11																			
Elkader	67.5	- 4.6	88	15	45	20	31			1.46	- 2.20	.65	1	.0	0		7	1	0
Fayette	68.5	- 3.6	91	16	45	20	25	2		1.08	- 2.58	.58	27	.0	0		7	2	0
Guttenberg L & D	64.2 M	- 5.9	90	16+	34	20	76	2		1.37	- 2.53	.74	28	.0	0		4	2	0
Independence 2 W	66.5	- 3.6	90	16	34	20	45	1		1.42	- 2.67	.35	27	.0	0		7	3	0
New Hampton	67.6	- 4.4	90	16	41	20		1		2.25	- 1.49	.93	1	.0	0		8	4	0
Saratoga 2 E	67.5 M	- 3.7	91	9	36	20	29	2		1.65	- 2.47	1.30	10	.0	0		4	1	1
Tripoli	66.5	- 3.7	86	9	32	20	83		1	1.35		1.13	10	.0	0		3	1	1
Waukon	68.0		91	9+	38	20	29	3		1.08		.49	8	.0	0		5	1	0
DIVISION	67.6 M	- 4.4	93	10	33	20		4		.67	- 3.03	.33	28	.0	0		4	1	0
DIVISION	65.4	- 6.1	88	9	38	20	59			2.01	- 1.94	1.04	10	.0	0		4	3	1
DIVISION	66.4	- 4.5								1.53	- 2.33			.0					
WEST CENTRAL DIVISION																			
Audubon 2 S	66.2	- 6.5	87	9	39	20	52			4.03	.06	1.25	12	.0	0		9	4	2
Carroll	66.3 M	- 5.8	90	9	37	20	63	1		2.58	- 1.60	1.09	12	.0	0		6	3	1
Castana 4 E	66.5 M		89	16	40	20	52			4.60		1.71	12	.0	0		7	5	2
Denison 1 S	67.0	- 5.6	89	9	37	20	46			3.84	.13	2.45	12	.0	0		5	3	1
Guthrie Center	68.2	- 4.8			42	20	29												
Harlan																			
Ida Grove 4 SSE	68.1	- 4.6	89	16	38	20	31			2.31	- 1.61	.94	12	.0	0		7	2	0
Jefferson	67.2	- 5.3	92	16	37	20	47	4		2.05	- 1.48	.82	17	.0	0		7	3	0
Lake City	66.8	- 5.4	89	9	39	20	40			2.39	- 1.56	.71	4	.0	0		8	4	0
Logan	66.7 M	- 5.8			53														
Mapleton 5 NW	67.6	- 6.6	91	16	37	20	35	1		6.38	2.90	3.35	12	.0	0		9	6	1
Missouri Valley	66.8	- 6.1	89	16	36	20	44			5.16	1.76	1.84	12	.0	0		10	6	1
Onawa	69.7	- 5.1	91	16	41	20+	24	3		6.99	3.59	2.42	12	.0	0		11	7	3
Rockwell City	67.3	- 4.8	90	16	39	20	40	4		3.67	- .07	1.40	12	.0	0		6	5	2
Sac City	68.4	- 3.7	93	16	42	20	30	5		1.80	- 2.15	.66	17	.0	0		9	2	0
Sioux City WB AP	68.4	- 3.7	93	16	42	20	30	5		1.67	- 2.05	.95	17	.0	0		5	2	0
DIVISION	68.5	- 4.0	92	16	37	20	30	4		4.31	1.49	1.82	11	.0	0		11	4	1
DIVISION	67.4	- 5.5								3.70	.00			.0					
CENTRAL DIVISION																			
Ames 3 SW	67.9	- 4.5	90	9	38	20	30	1		1.79	- 1.91	.68	27	.0	0		6	4	0
Ankeny 2 SW	69.0		92	9	39	20	24	2		1.42		.50	28	.0	0		6	2	0
Boone	68.9	- 4.1	94	9	40	20	28	3		.95	- 2.99	.33	10	.0	0		7	1	0
Des Moines WB AP	68.4	- 4.5	88	9+	40	20	31			2.05	- 1.75	.75	4	.0	0		9	3	0
Des Moines WB City	69.2	- 4.8	90	9	42	20	22	1		1.90	- 1.90	.78	4	.0	0		9	4	0
Fort Dodge																			
Grinnell	67.6	- 4.1	91	9	38	20	40	3		1.68	- 2.36	.71	11	.0	0		9	2	0
Grundy Center 4 NE	68.4	- 4.8	90	16	36	20	28	1		.89	- 2.83	.30	27	.0	0		7	1	0
Iowa Falls 1 N	67.7 M	- 4.3	93	9	37	20	27	2		.78	- 3.02	.47	28	.0	0		7	1	0
Newton	66.7	- 4.8	94	9</															

CLIMATOLOGICAL DATA

IOWA
AUGUST 1950

Table 2-Continued

Station	Temperature								Precipitation										
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
Woodward 7 N	68.0	- 5.0	90	9	39	20	25	1		1.40	- 2.60	.50	10	.0	0		8	2	0
DIVISION	68.3	- 4.4								1.66	- 2.14			.0					
EAST CENTRAL DIVISION																			
Anamosa 1 NW	67.1	- 5.0	88	15+	37	20	35	4		1.03	- 3.77	.60	27	.0	0		8	1	0
Belle Plaine	69.0	- 3.3	93	9+	36	20	21	1		1.33	- 2.33	1.11	27	.0	0		8	1	1
Bellevue L & D	66.4	- 4.7	90	16	36	20	45	1		1.97	- 1.73	.88	1	.0	0		7	3	0
Cedar Rapids No. 1	68.4	- 4.2	92	9+	38	20	22	3		.74	- 2.95	.25	28	.0	0		9	1	0
Clinton No. 1	68.6	- 4.3	92	15	42	20	20	2		1.45	- 2.54	.44	28	.0	0		8	3	0
Davenport WB City	69.7	- 4.5	89	15+	45	20	14			1.56	- 2.30	.84	10	.0	0		6	2	0
Iowa City	68.6	- 4.1	89	16	39	20	16			2.22	- 1.74	1.24	10	.0	0		7	3	1
Iowa City AP CAA	68.6	- 4.1	89	15+	40	20	24			2.34	- 1.62	1.36	10	T	0		9	3	1
Le Claire L & D	69.5		88	15+	46	20	14			2.23	- 1.30	.67	11	.0	0		10	3	0
Maquoketa 5 E	67.8	- 3.4	93	15	38	20	29	2		1.99	- 1.91	1.04	28	.0	0		7	2	1
Muscatine No. 1	70.0	- 3.4	91	15+	42	20	13	2		1.69	- 2.36	.54	10	.0	0		8	3	0
Tipton	67.8	- 4.9	93	16	38	20	34	2		1.31	- 2.74	.35	1	.0	0		6	3	0
Vinton	67.7	- 4.6	92	9+	36	20	34	3		1.10	- 2.55	.47	27	.0	0		4	2	0
Williamsburg	68.3	- 4.3	91	16	40	20	19	1		.60	- 3.05	.25	22	.0	0		5	1	0
DIVISION	68.4	- 4.1								1.54	- 2.29			T					
SOUTHWEST DIVISION																			
Atlantic 1 E	68.9 M	- 4.9	90	16	33	20	11	1		3.75	- .34	1.06	7	.0	0		9	5	1
Atlantic AP CAA	65.8	- 8.0	87	16	33	20	65			3.28	- .81	.66	7	.0	0		8	6	0
Bedford 1 N	67.9	- 6.2	85	1+	41	20	25			4.43	.33	1.54	12	.0	0		7	5	2
Clarinda	68.1	- 6.6	87	9+	37	20	31			6.43	2.43	2.03	8	.0	0		9	6	2
Corning 1 W	66.5 M	- 7.1			38	20	38												
Council Bluffs 5 N	68.0		90	16	36	20	28	1		9.04		3.85	12	.0	0		12	7	2
Glenwood 2 E	69.3 M	- 6.1	91	16	37	20	22	1		5.69	1.96	2.00	12	.0	0		10	7	1
Greenfield	67.6	- 5.1	87	9	39	20	39			3.97	.19	.98	4+	.0	0		8	5	0
Norwich 2 E SCS Farm	69.1	- 5.9	88	16	43	21	14			5.34	1.29	2.49	12	.0	0		9	5	1
Oakland 2 E	67.5 M	- 6.7	88	16+	35	20	36			4.88	.88	1.15	12	.0	0		11	6	2
Red Oak	67.9	- 6.6	88	16	35	20	41			5.68	1.58	3.10	12	.0	0		11	6	1
Shenandoah	69.9	- 6.6	92	16	38	20	13	1		4.85	.75	2.31	12	.0	0		10	6	1
Sidney	70.1		91	16	42	20	11	1		3.51		.91	7	.0	0		10	4	0
DIVISION	68.2	- 6.4								5.07	1.12			.0					
SOUTH CENTRAL DIVISION																			
Albia	68.5	- 5.5	88	16	40	20	23			4.11	.39	1.20	8+	.0	0		8	5	2
Centerville	69.1	- 5.6	88	16	40	20	15			2.79	-.94	.95	8	.0	0		8	5	0
Chariton 3 E	67.7	- 5.8	89	9	35	20	26			3.18	-.54	1.12	7	.0	0		6	3	1
Creston	66.6	- 6.6	88	9	39	20+	42			3.78	-.21	1.16	4	.0	0		8	6	1
Indianola	69.4	- 4.7	91	9+	39	20	16	3		3.05	-.91	1.02	12	.0	0		11	4	1
Knoxville 2 W	69.6	- 4.4	90	9	41	20	17	1	3	3.44	-.74	.96	10	.0	0		8	6	0
Lamoni AP CAA 4 WNW	67.2		87	9+	40	20	38			6.38		3.03	7	.0	0		8	4	2
Millerton	68.0 M	- 6.2	86	9+	40	20	26			3.41	-.11	1.62	7	.0	0		6	5	1
Mount Ayr 2 N	67.5	- 6.9	86	16+	37	20	31			4.15	.03	1.42	12	.0	0		7	5	1
Osceola	68.8 M	- 5.2	90	16+		20	20	2		3.97	.12	1.18	4	.0	0		8	5	1
Tingley	67.5	- 6.7	86	16	37	20	28			5.88	1.78	2.16	8	.0	0		9	6	2
Winterset	68.6	- 5.7	89	9+	40	20	25			4.63	.99	2.20	12	.0	0		10	4	1
DIVISION	68.2	- 5.9								4.06	.17			.0					
SOUTHWEST DIVISION																			
Bloomfield 2 N	68.1	- 7.2	89	9+	40	20	22			2.34	- 1.11	1.23	8	.0	0		6	4	1
Burlington WB Airport	68.3	- 5.7	88	16+	41	20	24			2.44	- 1.00	.98	8	.0	0		7	3	0
Columbus Junction	68.3	- 4.7	90	16	40	20+	24	1		2.24	- 1.77	.68	8	.0	0		6	4	0
Fairfield	69.5	- 4.2	91	16	40	20	15	4		1.44	- 2.26	.89	8	.0	0		5	2	0
Keokuk L & D	70.9	- 4.9	88	11	47	20				3.26	.13	1.92	8	.0	0		9	2	1
Keokuk WB City	70.3	- 5.5	87	16+	47	20				3.06	-.07	1.89	8	.0	0		7	2	1
Keosauqua	69.8	- 4.7	89	16	40	20	13			2.26	- 1.16	1.20	8	.0	0		8	2	1
Mount Pleasant	69.1	- 5.2	91	16	40	20+	17	3		1.98	- 1.78	.90	8	.0	0		4	3	0
Oskaloosa	69.1	- 6.1	88	9+	41	20	18	1		1.13	- 2.62	.42	5	.0	0		5	2	0
Ottumwa AP CAA	69.1	- 6.1	88	9+	41	20	18			1.58	- 2.28	.63	8	.0	0		10	3	0
Sigourney	69.4	- 4.4	89	9+	40	20	15			1.23	- 2.35	.30	28	.0	0		7	1	0
Washington	69.6	- 3.7	92	16	40	20	17	3		1.22	- 2.72	.68	8	.0	0		4	2	0
DIVISION	69.3	- 4.8								2.02	- 1.62			.0					
STATE	67.7	- 4.9								2.39	- 1.37			T					

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3

IOWA
AUGUST 1950

Station	Day of month																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Akron				.07	.60		.42			.05	T	2.02	.03		.08		.06																	3.46	
Albia					.60			1.20		1.20	.43	.14	.43	T								T											4.11		
Algona										.21																								1.33	
Allison	T									.21																								.41	
Alta	T			.03			.02			.11		.40					.62						T											1.35	
Ames 3 SW				.37						.42		.28	.01																					1.79	
Ames 3 SW	R			.37						.42		.28	.01																					1.79	
Anamosa 1 NW										.16	.05																							1.03	
Ankeny 2 SW				.45				.02		.10		.23	.04																					1.42	
Ankeny 2 SW	R			.48						.10		.23	.05																					1.46	
Atlantic 1 E				.54			1.06	.03		T		.52			.49		.19																	3.73	
Atlantic AP CAA				.57			.66			T		.52	T	T	.58		.28																	3.28	
Atlantic AP CAA	R //			.57			.66			T		.47			.60		.29																	3.29	
Audubon 2 S				.85			.16	.01				1.25	T		.20		1.15							T										4.03	
Augusta								1.20				.20																						2.63	
Bancroft	T										.08																							.77	
Bartlett 3 E				.07	.51		2.75	.05				1.22	.09	.17	.29		.09																	5.85	
Beaver	R			.15						.28		.40																						1.31	
Bedford 1 N				.75			1.25					1.54		.18																				4.43	
Belle Plaine				.02			.08			.01		.01		.02																				1.33	
Bellevue L & D 12												.04	T																					1.97	
Bellevue L & D 12	R	.88									.04	T																						1.09	
Blockton 2 S				.37			.15	1.42				1.37	.37																					4.05	
Bloomfield 2 W				.33			1.23	.34						.13	T																			2.34	
Boone				.12						.33		.24																						.95	
Britt											.80																							1.32	
Burlington WB AP				.07			T			.98			T	T	T		.15																	2.44	
Burlington WB AP	R //			.07			T			.98			T	T	T		.15																	2.44	
Carroll				.45						.05		1.09	.10				.66																	2.58	
Cascade							.08			.26					.04																			.81	
Cascade	R						.08			.26					.04																			.89	
Castana 4 E				.79	T		.42			.04		1.71					1.13																	4.60	
Cedar Falls				T			.04		.23		.10																							.77	
Cedar Rapids No 1				.13			.01	.05		T		.06	T																					.74	
Cedar Rapids No 2				.28			T	.03		T		.04	T																					.87	
Centerville				T			.40	.27	.95	.20			.27	.41	.24	.05																		2.79	
Centerville	R			.38			.84	.35	.20			.72	.23	.05																				2.78	
Chariton 3 E				.82			1.12			.09		.96	.08																						3.18
Charles City										2.06																									2.27
Charles City	R									2.06																									2.27
Cherokee				T			T			.29		.05	.30	.05																				1.13	
Cherokee	R			T			T			.26		.04	.23	.01	.05		.65	.10																1.84	
Clarence												.47																							2.21
Clarinda				.77	.07			2.03				1.75	.53		.53		.03																	6.43	
Clarion										.65		.07	T				.15																		1.03
Clinton No 1				.08						.21		.35	T																						1.45
Clinton No 2				.07						.22		.35	T																						1.39
Columbus Junction				.47						.68		.24																							2.24
Coon Rapids	R			.59			.07			.09		.07		1.05	.02	.01	.04	.03	.39															2.71	
Corning 1 W				.50																															
Corydon				.74		.08	.95					.42	.43																					2.62	
Council Bluffs 6 NE	R			.37	.10		.51			.15		4.17	.03	.03	.83		.66																	7.42	
Council Bluffs 5 NE	R			.63	.32		.85	.07		.08		3.85	.02		1.34		.94																	9.04	
Cresco																																			1.77
Creston AP 3 NE				1.16	.02		.85			1.35		.55	.30	.01																				3.78	
Cumberland 5 NW				.45			1.21			.30	T			.55	.03	.03	.45		1.22															5.72	
Cushing																																			
Dakota City												.40																							
Dakota City	R											.43																							1.57
Davenport WB City										.26		.84		T																					1.56
Davenport WB City	R									.26		.84		T																					1.56
Decorah				.10						.44		1.25																							2.47
Decorah 2 S				.56	T																														2.32
Delaware 2 W										.06		.28																							1.25
Denison 1 S				.33								.35		T			.40																		3.84
Derby	R			.79			1.73	.12					.39	.04																				3.53	
Des Moines WB AP				.75			.02	T		.32	T	.45	.02		.03																				2.05
Des Moines WB AP	R			.75			.02	T		.32	T	.45	.02		.03																				2.05
Des Moines WB City				.78			T	.01		.08	T	.39	.01		.03																				1.90
Des Moines WB City	R			.78			T	.01		.08	T	.39	.01		.03																				1.90
Dexter	R			.67			.12			.08		.38																							

DAILY PRECIPITATION

IOWA
AUGUST 1950

Table 3-Continued

Station	Day of month																															Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Iowa City Rlsta Crk 5 R				.02						.99		.77	.06		.47						.52	.02			.35			.42	.04	.03			2.04
Iowa Falls 1 N											.77	.06			.47									.35				.14	.05			1.86	
Iowa Falls 1 N R				.23	.13		.85			.05		.44	T		.10							T						.15			1.84		
James Iowa				.71			T		.22	.32		.50	.04	.02													.09	.07	T	T	2.29		
Jefferson											1.04	.62	.03									.05					.02	.06	.03		1.85		
Jewell 2 S											.43																		.43			1.10	
Kanawha					.07		1.92	.10			.01		.05	.20													T	T	.03	.86	.02	3.26	
Keokuk L & D 19				.09			.05	1.89		.03	.08	T																.05	.05	.87	3.06		
Keokuk WB City				.06			.05	1.81		.03	.08																	.05	.05	.87	2.95		
Keokuk WB City R																												.10	.69		2.26		
Keosauqua				.14			1.20		.03	.02	.07	.01	T														.45	.13	.01	.62	.06	3.29	
Keosauqua No 2	.22				.14		1.30	.14		.96	.70	T										.40	.05				.35	.25	T	T	3.44		
Knoxville 2 W				.63			.09	.02		.78	.71	.12										.47					.02	.17			3.03		
Knoxville 2 W R																																	
Lake City																																	
Lake Park																																	
Lake View				.52			.03			.37	.82	.03															.13	.07				2.82	
Lamoni AP CAA 4 WNW				.92			3.03				1.47	.62	T	.10													.03	T	.20			6.38	
Lamoni AP CAA 4 WNW R				1.03			3.06				1.50	.69		.10													.15	.70	.08			6.62	
Lansing	.40	.09							.74	.34	.80																					3.35	
Larrabee									.05	.08	.01																	.22	.52			1.33	
Le Claire							T	.25	.61																		T	.11			1.66		
Le Claire L & D 14	.01						.09	.12		.87	.49	.12															.40	.11	.40	.15	.16	2.23	
Le Mars	.02						.62		.08	T	.89	.04															.26				2.12		
Lenox							.54																				.07	.36	.15	.03		3.09	
Logan				.59	.32		.73				3.35	T		.14													.06	.29				6.38	
Lorimer				1.10	T		1.03				.60			.20													.24	T	T			3.17	
Malvern 5 W				.15			1.60				1.85	.92		.55													.39	.68	.50			7.35	
Mapleton 5 NW				.48	.05		.64			.04	1.84	.04		.05	T	.96											.29	.29				5.16	
Maquoketa 5 E	.11						T			.16	T											T				.18	.33	1.04	.08	.09	1.99		
Marion 4 NE									.10																								.57
Marshalltown									.08		.20	.08																					.70
Marshalltown R							.06			.22	.07																.04	.27				1.59	
Mason 3 N										.72																		.11	.40	.01			2.19
Mason AP CAA										1.65																							3.38
Merrill 5 W				.09	.27		1.64		.18		.95		.07															.07				1.41	
Milford 4 NW	T				T		.54			.02			T															.09	.46			3.41	
Millerton				.74			1.62				.42	.33																.27				6.99	
Missouri Valley				1.06	.35		.48			.09	.09	2.42	.02	T	.44												T	.38	.03			7.00	
Missouri Valley R				1.09	.35		.44			.09	.09	2.42	.02	.38	.08													.38	.03			1.75	
Monona									.16	.01		.45																.44	.51	.01		1.49	
Montezuma											.27	.05																.41	.09	.03		1.38	
Morse	.01			.06							.45																	.23	.06	.03		1.31	
Morse 1 NE				.14							.46																	.27	.05	.08		2.18	
Morse 4 SSW				.05							.64																						4.15
Mount Ayr 2 N				.84			.84				1.42	.11		.08														.26	.60			4.16	
Mount Ayr 2 N R				.84			.86				1.41	.11		.08														T				1.98	
Mount Pleasant				.03			.90			.36																							1.88
Mount Pleasant R				.03			.90			.36																		.13					4.49
Moville				.40	.04		1.69		.16		1.15	.04																					.69
Muscataine No 1				.05			.35			.54	T	T																.36	.03	.02	.20	T	1.69
Muscataine No.11							.34			.54																		.40					1.58
Muscataine No 2				T	.02		.23	.11		.49	.71	T																.01	.29	T			1.45
Nashua 2 NW	.05										.71	T																.16	.42			1.34	
New Hampton																												.07	.22	.06			1.65
Newton				.29	.05				T	T	.05		.04	.07														.49	.03			1.03	
North English				.10																								.65	.07	.03			1.08
Northwood																												.12	.94	.21			1.56
Norwich 2 E SCS F				.50			.64				2.49	.05	.05	.34														.10	.96	.21			5.34
Norwich 2 E SCS F R				.50			.64				2.54	.05	.05	.34														.10	.96	.21			5.34
Oakland 2 E				.28	.21		.77	.10		.03	1.15			1.13														.23	.13	.03			4.88
Oasis				.02			.70																										1.44
Oaswa				1.04	.27		.30				1.40	.16	T	T														.10	.08	.09			3.67
Osage																																	1.19
Osceola				1.18			.95	.45			1.02	.85		.12														.26	.14	.02			3.97
Oskaloosa					.42				.23	.04	.38		.03																				1.13
Ottumwa AP CAA				.25			.10	.63	.01	.33		.08	.03		.11																		1.58
Ottumwa AP CAA R				.35			.70			.33		.10	.03		.11																		1.64
Ottumwa				.58			1.26	T	.03	.16	.23																	.42	.56	.54	.46		3.90
Pella											.87	.23																.02	.26	.01			2.65
Perry 2 SE																																	

DAILY PRECIPITATION

Table 3—Continued

IOWA
AUGUST 1950

Station	Day of month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Wapello	.07							.55	.05		.80										T							.01	.10	.08	.20	.10	1.96	
Washington							.68				.38																	.07	.11	.05			1.22	
Washington R							.64			.40																		.10	.33	.08			1.16	
Waterloo AP 5 NE	T							T		T	.16		T	T	T																		2.67	
Waukeo				.62								.52		T								.19						1.14	T	T			2.47	
Waukon	T										1.04																	.47	.42	.08			2.01	
Webster City				T				T			1.03		.39		.20	.20											.02	.16	.17	.04			2.32	
Webster City R											1.02		.39									.20					.02	.16	.17	.04			2.32	
Webster City 2 S												.98																.02	.14				2.17	
Wheatland									.05	.80												.15				.03	.18	.14		.04	.17		1.56	
Williamsburg																																		
Winterset				.62			.64	.23	.01	.24				T														.03	.07				.60	
Winterset R				.46			.10			.18		2.20	.04														.20	.37	.11	.04			4.63	
Woodbine 5 SE				.22								1.90		.02	.08	.32	.54																3.52	
Woodward 7 N										.50		.41	T				.02										.03	.19	.02	.01			1.40	

HOURLY PRECIPITATION

IOWA
AUGUST 1950

Table 4

Station	A. M. Hour ending												P. M. Hour ending												Total			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
HARTLEY 3S	-1st-												-4th-															
AMES 3SW					.08	.20		.06	.02	.01															.37			
ANKENY 2SW						.36		.11	.01																.48			
ATLANTIC AP CAA	//			.37	.20																				.57			
BEAVER				.02	.11	.02																			.15			
BURLINGTON WB APT	//								.02	.18		.09	.03	.02	.01										.07			
CENTERVILLE																									.38			
COON RAPIDS			.01	.48	.08	.02		.22	.18	.19		.06	.01	.03	.05										.59			
CORYDON																									.74			
COUNCIL BLUFFS 6 NE			.37																						.37			
DERBY					.01	.01		.17	.23	.19		.05	.03	.04	.06										.79			
DES MOINES WB APT						.01	.66	.11	.15	.01															.75			
DES MOINES WB CITY						.01	.66	.11	.15	.01															.78			
DEXTER						.50	.14	.01	.01	.01															.67			
GREENFIELD				.04	.29	.12		.47	.03	.01															.96			
GRINNELL								.06	.01	.04		.02	.01	.01											.15			
HAMBURG				.10					.09	.01															.20			
HORNICK		.03	.04																						.37			
IDA GROVE 4SSE			.48						.04	.02															.54			
IOWA CITY AP CAA	6	*	*	*	*	*	*	.04	*	*	*	*	*	*	.06										.05			
IOWA C RALSTON CRK1									.05																.03			
IOWA C RALSTON CRK2									.03																.04			
IOWA C RALSTON CRK3								.02	.02																.02			
IOWA C RALSTON CRK4									.02																.02			
IOWA C RALSTON CRK5									.02																.06			
KEOKUK WBO														.01	.02	.02	.01								.63			
KNOXVILLE 2W														.63											1.03			
LAMONI AP CAA 4WNW				.08	.01		.44	.34	.04	.14		.02	.17	.12											.87			
LENOX									.04	.01	.01			.01											1.09			
MISSOURI VALLEY			1.02							.04	.02														.06			
MORSE									.03	.03			.07	.01											.14			
MORSE 1NE									.03	.03															.05			
MORSE 4SSW									.03	.02															.84			
MOUNT AYR 2N						.34	.34			.02		.10	.02	.01	.01										.03			
MOUNT PLEASANT																									.40			
MOVILLE		.11	.28	.01					.03	.05		.02	.01												.10			
NORTH ENGLISH						.10		.32	.02	.07		.01													.50			
NORWICH 2E SCS FARM									.02	.07															.02			
OASIS									.05	.12		.08													.35			
OTTUMWA AP CAA	6									.12		.08													.07			
REMSEN			.07				.02	.13	.22	.08	.02				.06	.05		.01	.01	.03					.83			
SAINT CHARLES																									.42			
SIoux CITY WB APT		.01	.40	.01																					.47			
SOLDIER			.02	.38	.05	.01	.01																		.03			
TRAER							.03								.02										.92			
WALLIN 2WNW				.43	.03																				.46			
WOODBINE 5SE																												
COUNCIL BLUFFS 6 NE												.02	.24	.04											.10			
HAMBURG												.08	.06	.04											.10			
HINTON 5WNW												.02	.03	.02											.15			
HORNICK												.33													.33			
MISSOURI VALLEY								.02				.23	.10												.35			
MOVILLE									.02	.02															.04			
REMSEN								.28	.02																.30			
SIoux CITY WB APT								.42	.14	.08					.13	.07	.01	.01							.64			
TABOR 6NW																									.22			
CORYDON																	.06	.02							.08			
ATLANTIC AP CAA	//														.40	.01		.05	.16	.03	.01		.10	.28	.19	.66		
CENTERVILLE																		.24	.03							.84		
CHEROKEE											.04	.16	.01	.02	.01		.01		.02		.02	.01				.26		
COON RAPIDS																			.02		.02	.05	.15	.38	.21	.16	.07	
CORYDON																						.01	.03	.22	.27	.23	.15	.95
COUNCIL BLUFFS 6 NE											.18	.03			.06	.06	.07	.06	.01	.03	.01	.02	.27	.23	.15	.51		
DERBY																	.82					.02					1.73	
DES MOINES WB APT																						.02					.02	
DEXTER																						.04	.02				.12	
GREENFIELD															.08	.04	.01	.01	.05		.12	.03					.34	
HAMBURG								.03	.17									.06	.29	.05							.60	
HINTON 5WNW															.33	.35	.02	.08	.15	.15	.02	.02					1.12	
HORNICK												.02	.19	.17	.03	.03	.02										.46	
KEOKUK WBO																											.05	
KNOXVILLE 2W																						.03	.04	.01	.01		.09	
LAMONI AP CAA 4WNW															.01	.22					.17	2.16	.36	.14			3.06	
LENOX															.01	.01	.03	.03	.11	.22	.14						.54	
MISSOURI VALLEY											.14	.19	.01	.01	.04	.05											.44	
MOUNT AYR 2N															.18	.01	.01	.01	.05	.35	.21	.05					.86	
MOVILLE								.29	.01	.95	.19	.05	.11	.03	.03	.02	.01										1.69	
NORWICH 2E SCS FARM											.02	.02															.64	
OTTUMWA AP CAA	6														*	*	*	*	*	*	*	*	*	*	*	*	.50	
REMSEN								.04	.04	.04	.17	.11	.04	.06													.05	
ROCKWELL CITY																	.72	.47	.02		.05	.11	.08	.01			1.42	
SAINT CHARLES																											.30	
SIoux CENTER					.09	.01		.04	.06	.04	.02	.01	.01	.01	.01	.04	.01										.76	
SIoux CITY WB APT									.37	.10	.07	.16	.01	.04	.01												.20	
SOLDIER															.11		.03	.01		.03	.02							
SPENCER 1N	6							*	*	*	*	*	*	*	.03	*	*	*	*	*	*	.05					.14	
TABOR 6NW								.13	.01								.52	.99	.19									

HOURLY PRECIPITATION

IOWA
AUGUST 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MOUNT AYR 2N				.02	.48	.59		.08			.07	.06	.03	.07	.01									1.41	
MOVILLE	.01	.01	.02																	.02	.03			.04	
NORWICH 2E SCS FARM				.44	1.15	.22	.16	.09	.02	.07	.17	.17												2.54	
OTTUMWA AP CAA																								.10	
ROCKWELL CITY																								.14	
SAINT CHARLES	.01	.02		.01	.01					.01	.06	.01	.01											.01	
SIoux CITY WB APT			.17	.52	.02	.25	.25	.54	.16	.08														1.99	
SOLDIER	.07	.02	.03	.01	.02	.01				.01														.17	
TABOR 6NW	.66	.21	.12	.02	.02	.01	.01			.44	.74	.07	.03	.01	.01	.01	.01							1.05	
WALLIN 2WNW			.04	.27	.01	.21	.05	.44	.74	.07	.03	.01	.01	.01	.01									1.90	
WEBSTER CITY				.16	.50	.22	.12	.07		.21	.05	.05	.04	.01	.01				.01	.01				1.44	
WOODBINE 5SE	.08	.71	.32	.14	.16	.28	.18	.03											.01	.01				.39	
-13th-																									
AMES 3SW						.05																		.01	
ANKENY 2SW																								.05	
CENTERVILLE	.01	.01	.01							.02	.03	.03	.01	.16	.03									.23	
CHEROKEE																								.05	
COON RAPIDS	.02												.23	.17	.01	.02								.02	
CORYDON																								.43	
COUNCIL BLUFFS 6 NE			.03										.03	.01										.03	
DERBY													.03	.01										.04	
DES MOINES WB APT					.01								.01											.02	
DES MOINES WB CITY					.01								.02											.02	
GREENFIELD													.02											.27	
HAMBURG						.21	.06			.37	.09	.01	.19											.69	
LAMONI AP CAA 4WNW				.02	.01					.01	.03													.04	
LENOX										.01	.01	.03												.02	
MISSOURI VALLEY										.01	.01	.04	.01											.11	
MOUNT AYR 2N										.01	.05	.04	.01											.03	
OTTUMWA AP CAA						.03																		.01	
ROCKWELL CITY		.01																						.02	
SAINT CHARLES	.01	.01											.02	.01	.01									.04	
SIoux CENTER				.01						.01														.02	
SIoux CITY WB APT																									
-14th-																									
CHARLES CITY																				.01	.01			.02	
COON RAPIDS																								.01	
COUNCIL BLUFFS 6 NE																						.01		.03	
FOREST CITY																						.03	.01	.03	
HAMBURG						.04	.15	.02											.32	.76	.08	.01	.03	.21	
IOWA FALLS IN																						.01	.01	.47	
MISSOURI VALLEY																						.01	.01	.36	
NORWICH 2E SCS FARM							.03	.02													.01	.01		.05	
SIoux CITY WB APT																								.02	
TABOR 6NW						.04	.04	.01	.02	.01	.01													.13	
WEBSTER CITY																					.19	.01		.20	
WOODBINE 5SE																						.02		.02	
-15th-																									
ATLANTIC AP CAA	//	.03	.57																					.60	
CASCADE			.04																					.04	
CENTERVILLE						.02	.01	.02																.05	
COON RAPIDS		.03	.01																					.04	
COUNCIL BLUFFS 6 NE		.83																						.83	
DES MOINES WB APT					.02	.01																		.03	
DES MOINES WB CITY					.02	.01																		.10	
DEXTER					.07	.01																		.10	
GREENFIELD			.02	.08																				.67	
HAMBURG			.58	.01																				.10	
LAMONI AP CAA 4WNW				.06	.01	.01																		.14	
LENOX				.04	.01	.03		.02											.03	.10	.01			.18	
MARION 4NE													.02	.04	.03	.02	.02	.02	.01	.01				.02	
MARSHALLTOWN NO 2				.02																				.08	
MISSOURI VALLEY	.05	.01	.02																					.08	
MOUNT AYR 2N				.02	.01					.03	.02													.34	
NORWICH 2E SCS FARM			.31	.01		.01	.01	.01													.02			.11	
OTTUMWA AP CAA										.09														.10	
SAINT CHARLES			.05	.02	.01	.02													.24	.01				.25	
STRAWBERRY POINT										.01	.01	.02												.34	
TABOR 6NW	.28	.02																						.25	
WALLIN 2WNW		.25																						.08	
WOODBINE 5SE	.08																								
-16th-																									
CHEROKEE																					.57	.03	.05	.65	
COON RAPIDS																					.02	.08	.03	.10	
HINTON 5WNW																							1.00	1.00	
HORNICK																							.27	.27	
IDA GROVE 4SSE																					.01	.29	.04	.39	
LARRABEE																						.52	.04	.56	
MOVILLE																									
REMSEN																					.01	.01	.02	.05	
RINGSTED																						.07	.08	.15	
ROCKWELL CITY																					.28	.16	.01	.45	
SIoux CENTER																						.10	.09	.19	
SIoux CITY WB APT																							.36	.36	
SOLDIER																									
SPENCER 1N																							.32	.32	
WOODBINE 5SE																									
-17th-																									
ATLANTIC AP CAA	//	.15	.03	.06	.03	.02																		.29	
BEAVER				.03	.09	.04																		.17	
CHARLES CITY										.01														.01	
CHEROKEE		.08	.01	.01																				.10	
COON RAPIDS		.01	.04	.23	.09	.02																		.39	
COUNCIL BLUFFS 6 NE		.46	.02	.08	.07	.03																		.66	
DAKOTA CITY		.01	.09	.10	.08	.02																		.30	
FOREST CITY			.05	.04																				.09	
GREENFIELD																									

HOURLY PRECIPITATION

Table 4-Continued

IOWA
AUGUST 1950

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
SIoux CITY WB APT	.12	.05																						.17	
SOLDIER	.09	.12	.07	.01																				.29	
SPENCER 1N	.09	*	*	*	*	*	.04																	.05	
SPILLVILLE										.03	.02													.80	
TABOR 6NW		.69	.02	.01	.05	.01	.02																	.10	
WALLIN 2WNW	.07	.02	.01																					.12	
WEBSTER CITY				.02	.09	.01																		.54	
WOODBINE SSE	.29	.11	.10	.04																					
-19th-																									
BURLINGTON WB APT	//										.02													.02	
IOWA CITY AP CAA	6							*	*	*	*	*	.01											.03	
LAMONI AP CAA 4WNW				*	*	*																			
MASON CITY AP CAA	6						.01																		
-21st-																									
DES MOINES WB APT																.04	.05							.09	
DES MOINES WB CITY																.06	*	*	*		.30			.06	
IOWA CITY AP CAA	6															*	*	*			.62	.10		.72	
IOWA C RALSTON CRK1																					.53	.38		.91	
IOWA C RALSTON CRK2																					.79	.03		.82	
IOWA C RALSTON CRK3																					.31	.29		.60	
IOWA C RALSTON CRK4																					.50	.01	.01	.52	
IOWA C RALSTON CRK5																					.42	.04	.01	.47	
KNOXVILLE 2W																					.04	.42	.04	.47	
MARION 4NE																					.04			.04	
MORSE																						.23	.04	.27	
MORSE 1NE																						.18	.17	.36	
MORSE 1NE																						1.02	.02	1.05	
MORSE 4SSW																								.01	
MUSCATINE NO 1																								.11	
MUSCATINE NO 1																								.05	
ROCKWELL CITY																								.20	
STRAWBERRY POINT																								.20	
TRAEER																.20								.20	
WEBSTER CITY																								.20	
WHEATLAND																								.15	
-22d-																									
IDA GROVE 4SSE																								.06	
IOWA CITY AP CAA	6														*	*	*	*	*		.03			.06	
IOWA C RALSTON CRK1																.02								.02	
IOWA C RALSTON CRK2																.02								.02	
IOWA C RALSTON CRK3																.02								.02	
IOWA C RALSTON CRK4																.02								.02	
IOWA C RALSTON CRK5																.02								.02	
MARSHALLTOWN NO 2							.01	.01																.02	
MORSE								.01	.01							.04	.01							.07	
MORSE 1NE									.02							.01								.03	
MORSE 4SSW																.02								.04	
NORTH ENGLISH																.01	.01							.23	
OASIS																.23								.23	
REMSSEN																	.33							.33	
SHELL ROCK																						.01		.01	
SIoux CITY WB APT																						.02	.02	.02	
-23d-																									
BEAVER																								.12	
BELLEVUE L/D 12									.02															.02	
HARTLEY 3S																								.35	
IOWA FALLS 1N																	.02	.06			.26	.01		.22	
SHELL ROCK																	.12	.08					.01	.01	
STRAWBERRY POINT																					.06			.06	
-25th-																									
BEAVER															.02	.02								.04	
GREENFIELD																								.06	
HAMBURG							.05															.05	.01	.05	
WHEATLAND																.03								.03	
-26th-																									
ANKENY 2SW																	.04	.01	.05					.10	
ATLANTIC AP CAA	//																							.07	
BEAVER								.02	.02		.04	.03												.15	
BELLEVUE L/D 12										.01	.01	.06		.02	.01						.04	.13		.17	
CENTERVILLE															.01									.01	
COON RAPIDS								.01	.01	.01	.07		.02	.01	.01	.01					.08	.02		.15	
DAVENPORT WB CITY																								.10	
DERBY															.02	.06								.08	
DES MOINES WB APT																	.13	.11						.24	
DES MOINES WB CITY															.01		.19	.09						.29	
DEXTER															.10	.04	.06							.20	
DUBUQUE WB CITY																						.01		.01	
GREENFIELD								.02	.03	.02		.01	.04											.12	
GRINNELL																		.24	.06					.30	
HAMBURG						.04	.11																	.15	
HORNICK																								*	
LENOX										.04	.02	.01												.07	
MARSHALLTOWN NO 2																					.01	.02	.01	.04	
MONONA																	.07	.02						.09	
MUSCATINE NO 1																							.01	.01	
NORWICH 2E SCS FARM								.05	.05															.10	
SAINT CHARLES															.01	.09								.10	
STRAWBERRY POINT																	.04							.04	
TABOR 6NW																								*	
TRAEER																								.18	
WALLIN 2WNW								.01	.04	.01	.01					.15	.02	.01						.07	
WEBSTER CITY																		.02						.02	
WHEATLAND																						.12	.02	.01	.03
-27th-																									
AMES 3SW																.09	.24	.27	.06	.01				.68	
ANKENY 2SW																.02	.16	.01	.16	.05				.50	
ATLANTIC AP CAA	//						.13	.07	.18		.09													.47	
BELLEVUE L/D 12	//	.25	.08																			.02	.26	.02	.66
BURLINGTON WB APT	//						.01																	.01	
CASCADE																						.01	.01	.18	.23
CHARLES CITY														.03	.01	.01		.01	.01	.18	.02			.06	
CHEROKEE								.07	.08						.02	.08					.22			.47	
COON RAPIDS																									

HOURLY PRECIPITATION

IOWA
AUGUST 1950

Table 4-Continued

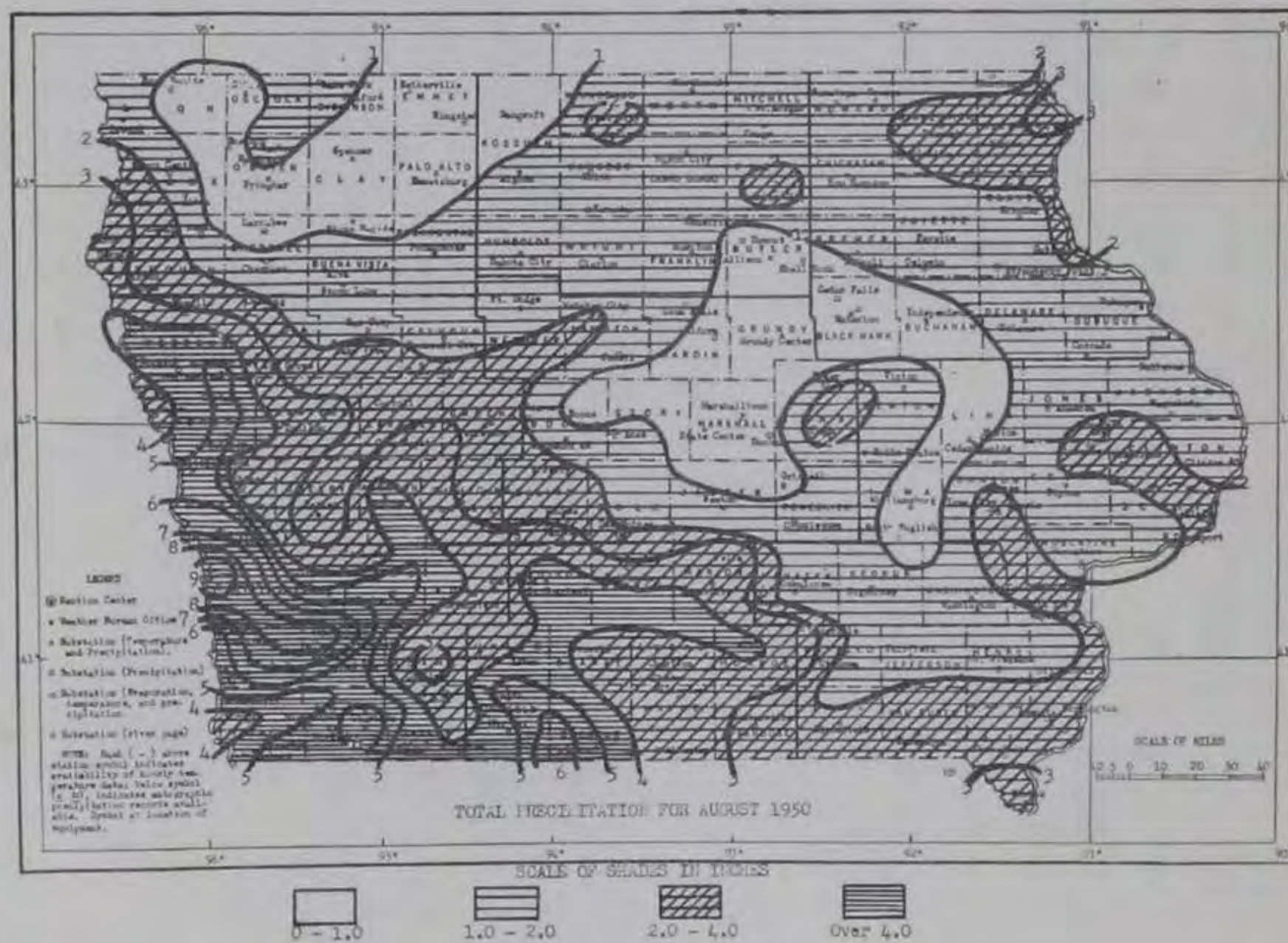
Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
DAVENPORT WB CITY															.25		.02		.01						.03
DERBY								.01	.01	.02	.05	.01	.04												.27
DES MOINES WB APT								.01		.01	.15		.06	.02											.13
DES MOINES WB CITY									.05	.10	.19	.06	.01												.25
DEXTER		.06	.03	.01	.01															.01	.46				.41
DUBUQUE WB CITY																									.58
FOREST CITY						.05	.08	.22	.17	.06	.06	.01	.02			.01	.02				.01	.04			.06
GREENFIELD	.01	.01																							.73
GRINNELL				.27	.26	.03	.19			.04			.08	.04	.03	.02	.01			.03					.07
HAMBURG									.01	.03															.75
HARTLEY 3S																									.25
IDA GROVE 4SSE																									.04
IOWA CITY AP CAA	6														.02	.23			.33	*	*	*	*	*	.31
IOWA C RALSTON CRK1																.23								.02	.04
IOWA C RALSTON CRK2																.18	.02	.01						.03	.04
IOWA C RALSTON CRK3																.12	.18	.01						.02	.03
IOWA C RALSTON CRK4																.18	.14	.03				.01	.06		.07
IOWA C RALSTON CRK5																.18	.14	.03							.38
IOWA FALLS 1N										.01	.05	.03	.01	.02	.08	.02	.05	.08							.42
LARRABEE					.23	.02	.02	.01	.03				.02	.01											.14
LENOX																			.06	.03	.01	.03	.01		.27
MARION 4NE																									.38
MARSHALLTOWN NO 2	6																								.26
MASON CITY AP CAA				.01	.09	.11	.13	.02																	.01
MISSOURI VALLEY				.02	.09	.02										.04	.01	.05					.02	.01	.26
MONONA																.10	.18	.10	.02					.04	.01
MORSE																.04	.07	.05						.04	.03
MORSE 1NE																.16	.06	.01						.04	.27
MORSE 4SSW																.24	.01								.26
MOUNT AYR 2N										.01	.02	.04	.04	.24	.01	.02									.13
MOVILLE																			.04	.23	.11	.01			.40
MUSCATINE NO 1		.01														.04									.65
NORTH ENGLISH				.44	.40	.08	.04												.02	.10				.05	.06
NORWICH 2E SCS FARM																									.23
OASIS																.03	.19	.07	.01						.30
REMSEN									.01	.05	.04	.01	.01	.01	.01	.01	.01	.01							.12
ROCKWELL CITY																									.03
ST ANSGAR 2S						.01	.04									.03	.06								.05
SAINT CHARLES																.01	.02	.05	.01	.01	.02				.09
SHEFFIELD																.02	.05	.02	.01	.01	.02				.12
SHELL ROCK																.01	.01	.02							.10
SIOUX CENTER																.02	.05	.02	.01	.01	.02				.08
SIOUX CITY WB APT				.02	.03	.01	.07	.05	.01	.02						.01									.17
SOLDIER																									.08
SPENCER 1N	6															.16								.01	.02
SPILLVILLE																.01	.01	.01	.01	.01					.07
STRAWBERRY POINT		.01	.01	.01	.01											.01	.01	.01							.38
TRAEER																.15	.14	.03	.06						.73
WALLIN 2WNW						.05	.08	.13	.41	.04	.01	.01	.01	.01	.01	.01	.01	.01				.04	.03	.07	
WASHINGTON																									.16
WEBSTER CITY									.01	.02	.06	.02	.03	.02					.12	.02					.14
WHEATLAND																									.03
-28th-																									
AMES 3SW				.01	.02	.04	.01									.07	.01								.16
ATLANTIC AP CAA	//				.03	.04	.01													.17					.19
BELLEVUE L/D 12	//	.01	.01													.03									.22
BURLINGTON WB APT		.01	.05	.02																	.01	.04	.01		.08
CASCADE																									.11
CHARLES CITY					.01																				.13
CHEROKEE																									.14
COUNCIL BLUFFS 6 NE		.01	.06	.03	.01		.01	.02					.02	.10	.01										.51
DAKOTA CITY																.20	.07	.06							.14
DAVENPORT WB CITY																.07	.01					.06			.08
DUBUQUE WB CITY		.01	.06	.01																					.20
FOREST CITY																.01	.04	.05	.02	.02	.01	.01	.03	.01	.34
GREENFIELD					.03				.01	.02						.22	.07	.01							.04
GRINNELL																									.07
HAMBURG		.01	.03	.03																					.62
HORNICK																									.04
IOWA CITY AP CAA	6	.10	*	*	*	*	*	.02																	.03
IOWA C RALSTON CRK1		.04																							.05
IOWA C RALSTON CRK2		.03																							.03
IOWA C RALSTON CRK3		.05																							.04
IOWA C RALSTON CRK4		.03	.01																						.05
IOWA C RALSTON CRK5		.03	.01																.04	.01					.20
IOWA FALLS 1N					.04											.01	.19	.12		.03	.02	.01	.02	.01	.21
KEOKUK WBO																.01	.19	.12		.03	.02	.01	.02	.01	.52
KNOXVILLE 2W																.02	.10	.03	.02	.02					.15
LAMONI AP CAA 4WNW		.07	.02	.01	.01	.02	.03	.03					.25	.10	.03	.05	.02								.03
LARRABEE																.02	*	*	*	*	*	*	*	*	.03
LENOX																.02	*	*	*	*	*	*	*	*	.95
MASON CITY AP CAA	6				.03																				.09
MISSOURI VALLEY					.02	.29	.54	.09	.01																.06
MONONA																									.05
MORSE		.07	.01	.01																					.60
MORSE 1NE		.04	.02																						.07
MORSE 4SSW		.04	.01													.52	.06	.01	.01						.21
MOUNT AYR 2N																									.13
NORTH ENGLISH					.18	.01		.01																	

HOURLY PRECIPITATION

Table 4-Continued

IOWA
AUGUST 1950

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
IOWA C RALSTON CRKS												.01	.01	.01										.03	
LENOX								.03		.08														.03	
MARION 4NE	.01	.02																						.11	
MASON CITY AP CAA	6	.04	*	*	*	*	*	.01					.02	.01	.02									.03	
MORSE														.01	.02									.03	
MORSE 1NE														.08										.08	
MORSE 4SSW														.03										.03	
NORTH ENGLISH														.03										.03	
OASIS																						.01	.01	.02	
OTTUMWA AP CAA	6																							.02	
SHEFFIELD				.03																				.03	
SHELL ROCK		.02	.03	.02	.01	.02																		.10	
SPILLVILLE			.02	.01																				.03	
STRAWBERRY POINT				.04	.01																			.09	
TRAEER				.01	.01	.01																		.03	
WASHINGTON																.04	.01							.05	
WEBSTER CITY		.02	.02																			.01	.03	.04	
WHEATLAND																								.04	
-30th-																									
BELLEVUE L/D 12		.01																						.01	
BURLINGTON WB APT	//					.03	.39	.16	.06				.04	.01		.04	.01							.69	
DAVENPORT WB CITY						.01	.04	.01	.04		.02	.01	.02	.04										.19	
DERBY																						.01		.01	
KEOKUK WBO			.01	.07	.38	.19	.17	.01	.01		.01													.87	
MOUNT PLEASANT		.03	.04	.02	.15	.25	.08	.02																.59	
MUSCATINE NO 1				.01	.03	.08	.03	.01					.01	.01										.18	
WHEATLAND							.02	.05	.03		.01	.02	.03	.01										.17	



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
AUGUST 1950

Table 5

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ALBIA	MAX MIN	83 61	76 52	83 52	71 59	85 58	86 60	84 60	83 64	87 62	82 60	80 60	66 57	68 61	80 65	86 64	88 64	81 64	77 52	68 53	69 40	76 47	82 55	86 63	85 64	79 60	75 60	78 62	77 62	71 56	71 56	81 49	78.8 58.2
ALGONA	MAX MIN	77 57	75 50	80 54	75 62	79 60	83 62	77 62	88 60	90 66	76 62	71 56	73 60	73 64	84 67	91 65	89 63	80 45	73 52	66 39	70 49	80 47	82 47	88 62	83 65	70 48	70 53	68 57	64 57	70 56	74 54	82 53	77.5 57.0
ALLISON	MAX MIN	75 57	71 53	78 53	80 56	84 57	85 61	85 58	88 64	92 70	80 62	78 56	74 59	78 56	82 64	90 64	91 65	75 58	74 47	64 60	69 37	79 47	85 51	90 64	88 64	77 48	60 60	72 60	70 60	70 57	74 51	84 64	79.4 57.5
ALTA	MAX MIN	76 54	78 50	79 53	73 61	79 62	83 63	74 61	88 58	88 65	80 65	71 58	66 62	68 65	84 58	90 64	89 64	83 60	76 58	70 49	69 39	84 49	82 50	86 50	83 50	77 47	71 50	66 60	66 56	70 53	76 51	86 53	77.8 56.3
AMES 3SW	MAX MIN	82 57	76 50	81 49	72 61	81 62	84 60	85 59	86 61	90 63	79 61	74 59	69 56	72 61	84 64	87 66	88 62	78 65	76 48	68 56	69 38	82 45	86 50	89 66	87 65	78 52	65 55	66 62	72 62	67 58	75 57	82 47	78.4 57.3
ANAMOSA 1NW	MAX MIN	83 57	74 53	79 46	75 54	79 57	81 56	83 53	79 63	87 57	83 59	76 55	70 55	75 58	78 63	88 60	88 60	83 66	74 50	71 47	68 37	78 44	85 49	86 62	88 63	81 58	71 55	78 61	77 64	71 58	67 57	78 51	78.5 55.7
ANKENY 2SW	MAX MIN	84 58	77 52	82 52	78 61	81 61	84 61	84 60	87 62	92 63	84 64	77 59	70 61	69 66	87 66	89 67	85 65	78 49	64 57	70 39	82 47	87 52	90 66	86 65	81 54	65 55	66 61	75 64	65 64	75 59	82 59	87 47	79.5 58.5
ATLANTIC 1E	MAX MIN	83 57	80 49	82 48	79 62	84 61	85 60	80 63	88 60	88 63	85 66	84 60	72 63	70 61	85 65	87 62	90 60	79 62	79 46	79 46	67 46	80 47	85 85	88 64	76 64	51 62	62 59	76 53	68 53	76 54	68 46	80 46	77.4 57.4
ATLANTIC AP CAA	MAX MIN	81 55	76 47	79 44	76 61	80 59	81 62	76 57	85 60	86 63	82 60	80 59	68 62	68 60	84 64	85 60	87 55	76 45	77 63	63 33	67 42	79 49	84 62	86 62	85 53	73 51	68 61	68 55	80 51	65 49	73 43	80 43	77.4 54.1
AUDUBON 2S	MAX MIN	80 55	75 49	79 60	72 58	75 59	80 62	77 61	85 58	87 62	82 63	75 58	67 58	69 62	84 61	86 62	86 61	78 46	76 51	62 39	67 46	80 46	82 51	86 61	82 64	72 56	64 50	66 58	72 58	66 52	70 52	79 49	76.3 56.0
BANCROFT	MAX MIN	77 56	79 48	85 52	83 60	85 60	89 62	82 61	91 60	93 62	87 61	75 55	77 61	74 59	87 64	93 64	93 63	81 63	78 43	76 51	67 37	79 49	84 45	86 59	93 64	85 48	69 54	73 55	70 55	69 54	73 54	91 52	81.3 55.8
BEDFORD 1N	MAX MIN	85 59	74 52	77 54	74 60	79 60	80 60	80 60	82 64	85 60	80 65	69 60	70 65	84 63	85 64	85 69	78 62	76 62	79 50	68 55	75 41	82 45	85 55	82 60	85 62	79 59	72 55	70 60	77 56	70 53	79 53	91 50	81.3 57.9
BELLE PLAINE	MAX MIN	85 55	75 53	82 50	76 60	80 60	87 60	86 60	85 64	93 60	85 59	78 60	70 59	77 58	83 61	90 61	93 59	85 65	78 54	71 52	72 36	83 42	89 50	91 65	87 61	79 57	69 59	73 62	77 64	66 59	72 48	80 48	80.8 57.2
BELLEVUE L AND D 12	MAX MIN	80 58	71 54	80 44	80 55	79 53	80 50	85 49	80 60	88 52	87 59	75 59	71 54	77 50	80 57	89 62	90 58	81 63	72 52	70 44	69 36	78 38	84 50	85 57	85 61	76 61	72 55	75 61	79 63	69 56	66 55	77 58	78.4 54.3
BLOOMFIELD 2N	MAX MIN	83 60	76 53	83 49	82 51	77 47	81 53	85 59	82 57	89 59	87 62	80 61	70 58	70 61	82 64	86 65	89 59	83 61	73 57	73 51	70 40	78 41	84 54	83 57	87 57	77 64	81 60	80 62	78 59	73 60	70 51	78 51	79.7 56.5
BOONE	MAX MIN	83 59	77 51	84 56	74 61	83 63	86 61	88 61	88 63	94 66	80 63	75 58	68 60	72 65	87 66	89 66	92 64	79 49	78 56	66 40	70 49	81 52	88 61	90 65	88 61	77 60	67 53	72 60	69 60	76 58	83 55	79.6 58.1	
BRITT	MAX MIN	76 51	82 53	85 55	82 50	86 52	88 58	85 57	92 57	93 59	83 55	78 49	80 55	78 54	89 59	94 60	92 60	85 60	80 38	74 46	72 30	86 41	85 41	94 56	85 60	68 41	77 44	77 61	68 66	75 59	77 61	88 52	82.3 52.4
BURLINGTON WB APT	MAX MIN	81 62	74 55	82 51	71 63	82 60	83 59	85 60	75 60	83 60	86 55	75 62	68 62	74 60	76 60	82 63	88 63	87 63	75 46	73 52	70 41	76 44	84 53	88 63	86 63	79 62	84 59	83 66	72 62	64 57	72 61	80 61	58.0
CARROLL	MAX MIN	83 56	81 50	83 52	79 60	82 61	84 59	80 60	89 57	90 64	80 64	81 57	66 57	68 59	87 83	89 63	80 63	78 63	72 46	67 52	72 37	77 48	80 48	85 63	83 64	77 49	81 50	74 60	66 58	67 53	80 51	78.8 56.0	
CASCADE	MAX MIN	78 59	71 55	80 45	79 54	81 54	83 53	85 55	81 53	88 55	85 60	77 60	72 55	78 50	79 50	90 58	85 68	75 50	72 47	70 35	80 43	84 49	85 63	83 64	77 60	70 56	74 62	78 66	66 60	67 58	80 55	78.8 55.2	
CASTANA 4E	MAX MIN	55 55	49 55	56 52	61 59	78 61	81 62	71 62	85 56	85 66	80 62	77 59	69 60	68 59	83 63	86 61	89 64	80 60	73 48	66 46	67 40	79 50	82 49	85 62	82 64	75 49	65 50	65 60	73 57	68 51	75 49	82 54	76.6 56.3
CEDAR RAPIDS NO 1	MAX MIN	80 60	73 55	82 52	73 59	81 58	83 58	85 56	82 56	92 59	84 61	78 60	69 57	77 57	78 61	90 65	92 61	83 68	77 53	70 51	72 38	80 45	85 51	89 63	85 59	77 58	70 62	73 65	76 60	67 58	81 50	79.1 57.7	
CENTERVILLE	MAX MIN	85 60	80 53	81 53	78 60	82 59	83 61	82 61	81 64	87 60	83 63	79 60	74 57	68 62	80 65	85 66	88 61	85 63	76 57	75 40	69 46	76 56	82 61	86 63	85 62	81 60	79 62	82 61	76 55	73 61	69 50	79 50	79.6 58.5
CHARITON 3E	MAX MIN	83 56	78 52	82 48	74 59	80 60	83 61	82 60	81 61	89 59	86 60	78 58	72 57	66 61	81 64	87 62	88 57	81 60	77 50	70 53	70 35	78 44	84 50	87 62	84 62	79 59	71 61	78 60	70 53	70 58	80 47	78.9 56.4	
CHARLES CITY	MAX MIN	74 57	72 54	80 53	78 60	80 59	84 61	84 60	87 65	90 62	72 61	74 58	73 59	75 58	81 65	88 64	89 64	75 54	72 50	63 45	67 39	77 50	82 52	87 65	86 61	63 50	70 53	69 60	69 58	70 53	73 49	82 56	77.0
CHEROKEE	MAX MIN	77 53	79 48	81 50	74 62	80 63	84 62	72 63	88 55	89 62	81 64	76 58	68 63	69 60	85 64	89 64	90 64	77 59	74 44	64 50	34 49	81 46	83 59	88 65	84 47	70 48	73 55	71 50	70 48	86 48	78.7 55.4		
CLARINDA	MAX MIN	84 57	76 52	80 48	78 61	82 60	82 63	81 60	84 60	87 62	85 63	82 63	74 63	78 63	86 64	87 62	87 58	78 48	67 53	70 43	78 43	83 52	87 59	84 61	85 59	75 53	69 62	66 56	71 51	75 46	85 46	77.7 56.5	
CLARION	MAX MIN	76 56	74 49	81 51	74 62	80 57	85 61	81 60	87 60	91 62	76 60	71 55	70 57	75 58	85 63	87 65	88 62	77 60	73 43	66 54	69 32	79 46	84 44	88 62	85 64	75 45	69 50	66 53	66 56	71 56	75 50	85 50	77.7 55.1
CLINTON NO 1	MAX MIN	80 60	74 55	80 48	77 57	82 54	85 55	87 65	78 57	86 64	86 60	78 55	70 60	78 54	81 58	92 65	90 64	88 66	79 56	76 42	72 45	77 52	83 58	85 64	84 60	73 60	77 67	79 67	79 57	73 58	65 61	71 58	79.5 57.7
COLUMBUS JUNCTION	MAX MIN	81 60	75 55	80 48	74 60	83 58	84 56	87 56	78 64	85 51	87 60	75 61	72 57	74 57	77 60	85 62	90 60	84 62	75 57	73 40	69 40	78 40	86 52	89 65	87 60	79 61	81 60	80 64	79 65	71 59	65 60	71 60	79.2 57.4
CORNING 1W	MAX MIN	81 56	82 59	78 51	74 60	79 60	81 61	82 63	86 50	88 63	85 65	79 60	71 58	85 64	86 60	90 59	86 60	76 47	73 51	69 36	69 47	77 47	83 50	86 60	85 63	81 52	70 56	70 55	75 60	68 55	72 48	78 48	77.3 55.7
COUNCIL BLUFFS 5NE	MAX MIN	82 53	78 49	79 49	80 61	81 62	82 61	72 63	86 50	88 63	8																						

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DENISON 1S	MAX MIN	79 57	76 51	80 54	75 62	80 62	82 62	74 65	87 55	89 65	81 64	76 58	68 61	68 60	84 64	88 63	88 70	74 62	76 47	54 52	68 37	79 50	84 50	87 65	82 65	70 50	65 50	64 61	73 58	67 52	75 48	82 48	76.8 57.0
DES MOINES WB APT	MAX MIN	83 60	76 53	81 55	73 61	82 64	84 63	83 64	85 66	88 65	79 65	76 61	66 57	69 62	86 66	86 68	88 64	77 60	77 54	63 49	69 40	79 47	84 56	87 65	84 64	76 58	65 57	68 63	74 60	65 59	74 60	82 49	77.7 59.1
DES MOINES WB CITY	MAX MIN	84 63	79 54	82 54	74 61	82 62	84 63	83 62	85 65	90 67	80 66	78 61	68 57	72 62	86 66	86 68	89 64	80 56	77 52	65 50	70 42	80 49	86 57	89 66	85 66	77 57	67 58	69 63	75 62	65 60	77 57	83 50	78.9 59.4
DUBUQUE L AND D 11	MAX MIN	78 59	72 53	79 50	79 59	78 57	78 67	80 59	79 64	86 59	85 63	74 58	72 54	75 54	78 60	88 63	87 63	77 67	71 51	67 59	67 45	77 47	80 54	82 63	79 63	87 59	69 55	72 60	78 65	68 59	64 56	75 57	76.8 58.1
DUBUQUE WB CITY	MAX MIN	78 61	70 56	80 51	80 60	79 59	81 58	85 59	81 65	89 61	86 64	74 60	72 57	77 55	79 61	90 66	91 65	81 62	72 54	69 51	69 45	78 46	82 56	87 64	84 65	75 61	70 57	73 62	78 62	65 60	67 59	79 60	76.1 58.8
ELKADER	MAX MIN	75 50	70 49	79 42	81 48	78 51	80 49	89 52	84 55	81 55	76 53	78 50	72 49	72 53	85 53	90 64	89 64	86 62	73 47	68 46	69 34	78 37	83 46	90 62	85 60	80 56	70 53	69 58	76 63	69 57	73 53	83 50	77.7 50.6
EMMETSBURG	MAX MIN	74 56	76 49	78 53	76 62	79 62	84 61	76 61	86 59	88 69	82 67	72 55	72 61	72 60	85 64	90 64	89 64	86 62	73 47	67 50	68 50	76 50	83 63	87 64	84 62	78 48	65 52	67 57	72 54	68 52	71 54	83 52	77.8 56.7
ESTHERVILLE	MAX MIN	75 55	76 47	83 52	79 60	84 62	80 64	80 64	91 65	93 65	80 70	74 56	77 59	72 60	89 62	95 63	94 65	85 59	76 43	73 48	75 36	78 50	86 42	89 60	85 65	77 47	70 50	72 57	68 56	78 53	80 55	90 54	80.7 55.8
FAIRFIELD	MAX MIN	84 61	74 54	85 49	72 61	87 58	88 60	90 61	87 64	85 58	85 62	75 59	71 58	72 62	78 61	90 64	91 60	85 62	77 58	74 51	71 40	80 45	87 53	90 60	87 61	80 63	83 59	81 62	82 65	74 57	68 60	77 53	80.8 58.1
FAYETTE	MAX MIN	76 56	71 53	80 48	80 52	78 53	81 56	83 53	85 62	89 58	77 60	73 62	71 56	74 52	80 62	88 65	90 60	76 63	72 53	66 49	68 34	78 40	83 48	88 68	84 65	77 60	78 52	67 59	73 63	68 58	69 54	78 48	77.5 55.3
FOREST CITY	MAX MIN	76 55	75 48	81 50	77 58	81 56	84 60	81 60	90 62	92 60	76 58	73 54	74 60	72 52	84 57	89 60	88 63	78 58	72 44	62 49	69 36	76 48	81 46	87 60	83 64	67 47	70 50	68 54	63 58	72 56	76 51	85 49	77.5 54.3
FORT DODGE	MAX MIN	78 57	76 50	81 52	74 61	81 63	85 60	83 60	90 63	91 62	80 62	76 57	64 59	72 60	86 65	89 67	90 66	74 64	75 46	69 54	70 38	82 49	85 47	89 65	84 65	75 48	66 50	67 59	64 59	70 57	75 53	84 48	78.2 56.9
GLENWOOD 2E	MAX MIN	81 55		77 51	79 53	81 65		82 63	87 58	87 65	87 67	86 66	78 64	74 67	85 67	91 62	84 61	78 47	74 53	70 37	60 45	80 53	85 64	88 65	86 65	80 57	73 55	75 62	77 54	71 52	84 52	80.8 57.7	
GREENFIELD	MAX MIN	81 57	73 52	79 53	72 61	80 61	80 63	81 59	81 63	87 64	79 67	78 69	74 68	72 68	83 59	83 62	86 61	78 61	75 49	67 39	77 45	82 54	81 62	85 68	81 56	68 54	69 57	75 55	68 58	75 49	80 58	90 49	77.1 58.1
GRINNELL	MAX MIN	82 55	75 52	82 51	74 60	83 60	85 60	85 67	89 62	84 65	84 60	78 56	78 60	82 65	84 60	89 65	90 60	82 65	78 50	69 52	71 36	79 43	85 50	88 64	85 63	78 55	67 58	74 61	76 62	67 58	73 48	81 58	79.5 57.3
GRUNDY CENTER 4NE	MAX MIN	78 57	73 50		73 62	82 57	87 54	83 58	88 61	93 60	78 60	73 57	71 55	75 60	83 62	88 60	90 61	80 61	77 49	69 51	71 37	81 44	85 48	89 65	86 63	80 62	69 61	68 59	73 56	69 54	74 54	84 54	79.0 56.4
GUTHRIE CENTER	MAX MIN	80 56	74 52	79 55	71 62	80 62	82 60	81 61	82 62	88 66	79 66	73 59	70 60	68 60	82 64	82 63	85 64	78 62	74 49	68 54	66 42	78 49	83 51	86 65	84 64	76 52							78.0 56.4
GUTTENBERG L D 10	MAX MIN	78 66	71 59	81 48	80 57	78 58	80 56	83 56	82 64	89 59	81 59	75 59	74 55	76 61	79 63	88 63	90 67	81 67	73 52	68 51	68 41	80 45	83 53	88 65	84 64	80 55	68 55	70 58	77 64	70 57	78 55	84 51	76.1 57.1
HAMPTON	MAX MIN	75 57	74 50	80 55	75 64	80 56	83 60	82 60	86 64	89 69	76 61	72 56	72 58	73 56	83 63	86 65	88 66	84 64	72 46	70 54	68 38	78 51	82 48	87 65	85 65	78 50	68 61	68 59	69 57	68 57	73 52	82 51	77.6 57.1
HARLAN	MAX MIN	83 58	77 54	80 52	75 63	80 63	82 62	78 64	86 58	88 64	85 65	78 61	73 63	68 61	85 65	87 63	89 62	83 63	78 49	72 53	70 38	81 45	84 52	88 61	84 54	78 53	64 55	64 60	64 55	70 52	74 54	80 49	78.7 57.5
IDA GROVE 4SSE	MAX MIN	78 55	78 47	85 61	74 60	83 61	86 62	83 63	90 63	90 63	83 63	74 58	68 58	80 58	86 61	90 62	81 62	75 46	68 52	71 37	82 50	86 47	89 63	85 65	85 48	72 49	70 50	66 56	75 51	70 46	78 51	85 46	79.5 54.8
INDEPENDENCE 2W	MAX MIN	83 56	74 52	81 54	78 58	80 56	83 57	84 57	84 63	91 59	85 61	76 60	72 56	76 60	81 63	90 63	92 61	85 65	73 51	70 53	69 38	80 46	85 50	90 64	85 60	78 50							81.0 53.9
INDIANOLA	MAX MIN	85 60	77 53	84 52	76 61	83 60	86 62	86 61	83 63	91 65	82 64	78 60	71 61	70 61	86 65	87 67	91 65	80 63	78 48	68 56	72 39	81 46	89 56	90 62	86 63	78 63	70 59	73 62	76 61	70 58	82 47	80.0 58.7	
INWOOD 2W	MAX MIN	75 51	73 45	81 51	78 61	81 62	85 65	80 65	89 54	91 57	84 64	80 60	74 62	68 60	84 64	92 57	92 63	79 56	77 46	68 49	73 33	83 49	85 46	89 51	87 45	75 45	69 54	68 59	75 50	76 47	81 44	88 50	80.0 54.0
IOWA CITY	MAX MIN	80 60	72 55	82 53	75 61	82 60	83 59	84 58	82 65	87 58	86 61	77 61	71 57	75 57	78 60	88 63	89 59	84 65	74 55	71 52	70 39	79 50	84 51	88 62	85 61	77 62	76 61	75 68	69 66	69 60	77 57	83 57	78.9 58.3
IOWA CITY AP CAA	MAX MIN	82 59	73 53	83 52	77 61	84 60	84 58	86 55	83 62	87 59	88 60	80 62	71 57	77 60	81 62	89 57	89 64	85 54	76 48	70 40	79 44	83 44	88 51	85 62	81 62	79 58	77 63	77 61	79 61	69 57	77 57	83 57	79.9 57.3
IOWA FALLS 1N	MAX MIN	78 56	75 50	83 51	75 61	83 55	86 59	86 58	90 59	94 59	77 60	72 55	68 54	74 58	84 62	90 63	75 62	76 46	67 52	75 34	80 47	85 46	90 64	87 62	85 48	77 49	67 56	68 55	71 50	74 44	82 44	78.9 54.5	
JEFFERSON	MAX MIN	80 58	74 50	79 52	75 60	78 61	80 61	84 60	89 64	75 64	72 58	70 58	69 60	83 64	83 63	86 64	78 63	73 47	63 55	68 39	78 47	83 49	86 67	84 63	76 51	64 52	67 61	70 60	68 57	72 58	80 49	76.3 57.3	
KEOKUK L D 19	MAX MIN	84 69	84 59	74 58	82 66	74 62	84 64	84 66	86 62	73 68	83 64	88 60	74 61	73 63	76 65	77 65	82 67	85 67	86 62	74 47	76 53	70 47	80 58	84 61	83 65	81 64	84 68	80 68	79 62	78 62	67 62	79.3 62.5	
KEOKUK WBO	MAX MIN	83 66	74 58	82 56	69 65	83 61	83 63	84 66	72 60	83 66	86 64	73 64	70 59	74 62	78 63	83 66	87 64	86 69	76 60	76 59	71 47	77 50	84 59	87 63	84 65	80 64	84 63	79 69	78 60	76 62	65 62	72 62	78.7 61.8
KEOSAUQUA	MAX MIN	83 61	78 55	84 50	77 59	84 57	84 58	86 58	81 64	88 68	87 61	77 60	72 60	73 62	79 64	87 58	89 62	85 61	79 40	77 53	72 43	78 43	85 58	87 64	88 64	83 61	82 63	82 65	75 57	62 54	54 58.7		
KNOXVILLE 2W	MAX MIN	89 71	80 52	82 54	78 60	82 61	85 64	84 63	84 64	90 64	83 64	77 61	73 55	70 61	82 65	86 64	89 6																

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
MAQUOKETA 5E	MAX MIN	82 59	74 52	79 47	78 57	80 56	82 54	85 55	79 63	88 53	87 60	79 57	68 53	75 51	79 58	93 63	90 60	88 63	80 50	78 49	73 38	79 44	85 48	86 59	85 61	80 60	77 55	77 62	79 65	72 55	65 55	77 58	80.0 55.5				
MARSHALLTOWN	MAX MIN	88 59	81 53	75 50	84 63	76 60	85 59	88 58	87 62	88 60	93 60	83 58	76 56	70 56	77 61	85 64	90 61	94 66	76 51																		
MASON CITY 3N	MAX MIN	75 54	75 50	82 50	80 57	81 56	85 61	84 58	87 63	92 60	75 62	74 54	73 59	72 54	85 62	88 61	89 64	74 59	74 42	65 48	68 35	78 49	83 46	89 63	87 66	69 48	70 51	69 58	65 59	71 56	76 51	85 50	78.1 55.0				
MASON CITY AP CAA	MAX MIN	74 55	74 49	80 50	78 59	81 55	86 60	82 57	88 60	91 59	74 58	73 54	73 55	73 53	83 63	88 61	89 67	74 49	73 42	63 43	68 35	76 48	82 48	88 63	86 58	62 46	70 49	67 57	63 58	71 56	74 50	85 50	77.1 53.8				
MILFORD 4NW	MAX MIN	74 51	78 45	80 48	77 61	77 61	84 61	79 61	87 57	88 61	78 62	75 58	73 60	69 59	87 60	92 61	91 60	79 56	76 42	65 45	70 35	77 47	84 43	87 65	86 64	69 44	72 51	69 57	66 52	74 51	78 49	87 48	78.3 54.0				
MILLERTON	MAX MIN	80 59	75 51	79 51	74 59	82 60	82 60	81 59	79 63	86 67	82 64	76 60	71 57	66 61	79 65	84 65	86 63	81 65	77 51	71 56	68 40	76 45	81 45	85 61	83 64	76 60	72 60	75 62	76 61	70 54	69 59	77 49	85 49	80.9 58.4			
MISSOURI VALLEY	MAX MIN	85 56	80 51	82 58	84 63	83 65	84 66	76 65	88 58	90 68	87 63	83 64	76 65	71 62	88 66	89 62	91 67	81 64	78 49	68 53	73 41	84 41	86 52	90 64	83 66	78 54	68 53	71 62	80 59	75 56	70 51	74 58	67 59	89 48	85 48	80.9 58.4	
MOUNT ATR 2N	MAX MIN	82 56	74 53	78 49	75 60	80 60	81 62	78 64	80 62	85 65	83 61	79 63	74 63	67 63	84 64	84 64	86 61	78 63	77 50	72 55	69 37	76 46	82 54	86 61	83 63	80 59	75 56	70 51	74 58	67 56	69 59	76 48	85 48	77.5 57.5			
MOUNT PLEASANT	MAX MIN	85 60	80 54	85 48	78 60	88 58	88 50	88 58	79 57	87 63	87 55	75 61	72 61	72 61	79 59	90 63	91 58	85 61	78 59	73 52	73 40	79 40	84 50	90 54	87 62	83 63	83 58	81 65	81 65	75 56	66 59	77 55	81.3 56.9				
MUSCATINE NO 1	MAX MIN	84 61	77 54	84 49	76 61	85 61	87 58	86 57	83 63	88 57	89 63	81 61	72 58	76 58	81 61	91 64	91 62	88 65	79 56	77 52	73 42	73 44	79 54	86 61	89 64	85 64	81 63	82 59	79 65	80 66	72 58	65 58	74 58	81.3 58.6			
NEW HAMPTON	MAX MIN	73 58	73 53	75 54	78 55	78 56	83 59	83 58	86 63	91 60	74 60	74 56	73 58	74 55	79 63	88 64	90 63	76 58	74 48	65 49	68 36	77 44	82 50	88 64	85 59	81 49	68 52	69 59	68 61	69 57	74 53	83 46	77.4 55.5				
NEWTON	MAX MIN	84 58	77 53	83 54	73 61	82 63	85 62	84 62	85 64	93 63	84 65	77 59	70 57	74 61	85 65	89 68	90 64	82 67	81 51	71 58	72 37	81 47	87 55	90 66	85 65	79 57	67 58	71 62	76 62	67 58	74 59	87 48	80.2 59.0				
NORTHWOOD	MAX MIN	78 55	74 48	79 49	77 55	79 55	84 59	80 57	88 62	91 57	85 60	72 54	75 57	73 53	82 61	89 59	87 61	77 63	74 42	68 49	69 36	76 47	81 44	88 61	83 62	76 46	72 49	70 54	63 58	73 55	50 49	85 49	78.3 53.8				
NORWICH 2E SCS FARM	MAX MIN	81 60	77 52	78 50	79 62	81 63	82 61	80 64	84 61	86 63	86 64	82 63	75 64	73 64	85 65	84 61	88 60	78 64	79 50	73 53	68 58	77 43	84 54	87 61	85 62	78 58	72 54	85 62	77 55	75 55	73 55	79 48	79.7 58.4				
OAKLAND 2E	MAX MIN	82 51	78 50	79 47	77 61	80 62	81 62	78 64	86 59	86 62	82 66	81 62	75 63	71 61	84 65	85 60	88 58	84 50	76 46	72 53	67 35	78 46	82 49	86 61	88 64	78 55	69 52	70 61	77 55	70 52	75 52	82 47	78.9 56.0				
ONAWA	MAX MIN	82 54	80 50	84 55	84 65	85 64	73 64	89 56	91 65	87 56	84 56	74 65	70 65	87 64	91 56	94 56	83 65	83 50	71 50	72 50	84 47	87 47	91 55	86 66	75 65	67 57	68 58	78 66	72 57	79 55	85 49	81.2 52					
OSAGE	MAX MIN	75 56	73 52	79 50	77 56	79 56	82 61	82 60	87 63	90 59	79 61	72 55	73 58	73 55	80 63	87 62	88 62	79 63	72 48	65 54	67 37	75 48	80 51	85 62	85 63	75 50	69 52	68 57	66 59	69 57	73 53	83 47	77.0 55.8				
OSCEOLA	MAX MIN	85 60	78 52	83 54	78 60	81 60	84 60	82 59	82 63	89 64	84 66	80 60	75 58	66 61	86 64	86 64	90 60	83 60	78 56	68 38	71 38	79 54	84 61	90 63	85 63	79 58	69 57	76 61	74 59	69 55	80 58	79.5 58.1					
OSKALOOSA	MAX MIN	86		79	71	79	81		80	89	78	77	72	68	75	88	90	84	79	68	71	80	86	89	85	81	72	81	80	70	72	82	79.1				
OTTUMWA AP CAA	MAX MIN	85 62	76 55	83 55	70 61	81 59	84 62	85 62	81 64	88 64	83 64	75 61	69 58	71 61	78 63	85 66	87 64	84 64	77 55	71 48	70 41	77 48	84 57	88 63	86 64	79 63	75 60	77 62	79 60	70 57	71 58	80 52	79.0 59.1				
PERRY 2SE	MAX MIN	83 55	77 51	80 48	75 59	80 60	82 59	82 59	88 58	90 58	82 60						89 58	80 62	78 47	69 55	73 36	81 45	86 46	90 65	86 63	79 51	66 52	65 59	74 60	66 56	78 58	82 44	79.3 54.9				
POCABONTAS	MAX MIN	78 49	77 52	80 52	74 60	79 62	83 64	76 61	89 58	90 62	78 60	70 56	70 58	72 56	85 63	90 64	89 65	72 65	74 45	64 50	69 37	80 49	84 47	87 62	83 67	67 47	69 48	67 56	64 55	70 49	79 50	84 50	77.2 55.4				
PRIMGHAR	MAX MIN	75 52	78 47	81 53	76 61	79 62	84 63	80 64	87 58	88 65	86 64	75 59	71 62	68 59	86 63	91 65	91 64	87 58	75 54	73 48	72 38	82 48	84 48	87 68	84 64	81 47	72 48	72 60	68 55	71 52	77 50	86 55	79.6 56.6				
RED OAK	MAX MIN	81 55	71 51	78 50	79 62	81 63	81 62	79 65	83 60	85 63	82 65	76 62	74 65	84 66	85 64	88 64	78 59	78 64	65 48	68 54	68 35	77 45	83 53	86 62	84 64	78 57	71 53	72 62	77 56	74 50	81 54	78.4 57.4					
ROCK RAPIDS	MAX MIN	73 54	77 48	80 49	79 62	80 62	84 65	77 66	86 54	89 59	85 65	79 61	75 63	68 62	87 64	90 60	91 61	82 58	76 45	65 49	71 34	79 48	84 42	88 52	83 64	72 51	69 60	67 54	72 52	74 48	80 52	87 48	79.0 55.2				
ROCKWELL CITY	MAX MIN	80 55	77 48	81 53	75 60	81 62	84 59	79 60	88 58	90 64	79 63	72 57	68 58	73 58	85 63	90 64	90 64	79 62	76 45	68 39	69 52	80 42	85 50	90 65	85 67	76 49	67 49	65 61	59 55	51 53	53 51	79.2 57.6					
SAC CITY	MAX MIN	78 57	77 52	85 55	76 56	84 64	87 61	75 63	90 59	91 66	80 65	73 59	67 61	69 60	88 65	92 66	93 78	78 49	70 52	72 42	82 50	88 65	91 67	84 65	75 67	68 49	65 49	61 59	55 51	53 51	53 51	77.7 57.6					
SANBORN	MAX MIN	74 52	75 47	81 52	79 60	78 60	83 62	76 63	85 60	87 64	80 64	75 58	71 63	69 64	84 64	88 64	90 58	81 45	75 47	70 38	68 49	79 47	82 47	87 57	81 65	71 47	70 48	67 59	67 55	73 52	77 50	85 54	77.7 55.6				
SARATOGA 2E	MAX MIN	73 55	70 51	77 51	78 50	76 56	81 57	80 56	85 61	86 57	72 61	71 55	72 53	77 54	84 62	85 62	73 63	70 65	64 43	65 49	72 32	76 44	83 47	82 63	74 49	66 48	64 56	66 60	66 56	71 47	82 45	74.8 53.5					
SHELDON	MAX MIN	72 53	76 48	79 50	76 61	78 62	82 64	75 64	84 54	85 62	79 65	75 60	70 62	68 60	84 63	88 61	90 62	82 58	73 44	67 48	70 33	80 47	86 42	89 53	86 67	72 46	69 49	66 59	68 54	73 49	77 48	85 50	77.2 54.7				
SHENANDOAH	MAX MIN	84 58	80 52	80 52	82 62	84 64	85 63	81 66	87 61	89 60	87 67	83 64	77 65	75 65	87 66	87 63	92 60	85 64	80 50	75 54	71 38	80 47	87 54	89 62	88 64	80 59	75 55	75 62	79 56	72 53	77 55	82 47	81.8 58.0				
SIBLEY	MAX MIN	76 52	75 42	77 44	76 59	76 59	81 64	76 63	82 50	86 55	85 64	79 57	71 61	70 59	86 63	90 57	89 56	89 56	75 42	74 46	68 30	74 44	83 37	86 49	85 												

DAILY TEMPERATURES

Table 5-Continued

IOWA
AUGUST 1950

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
TINGLEY	MAX	83	76	80	73	80	82	78	82	85	81	80	74	67	85	84	86	76	76	67	69	77	82	80	83	75	72	73	76	68	71	79	77.4
	MIN	56	52	53	60	59	60	60	64	63	65	60	63	63	65	64	61	63	50	55	37	45	55	60	63	59	57	62	53	51	59	50	57.6
TIPTON	MAX	81	73	80	74	82	83	84	81	84	86	74	68	76	78	92	93	77	76	71	69	77	81	86	84	77	78	76	81	73	69	76	78.7
	MIN	56	52	44	48	58	58	68	65	63	62	53	57	52	58	64	61	65	52	53	38	43	52	58	62	58	57	62	66	58	58	61	56.8
TOLEDO	MAX	82	74	82	75	85	88	85	85	89	80	75	70	74	81	87	91	81	75	69	71	80	85	88	85	80	66	68	75	68	71	80	78.9
	MIN	58	53	51	62	62	60	60	63	61	60	59	56	58	61	61	62	67	51	53	38	46	50	66	63	55	57	60	62	58	58	46	57.3
TRIPOLI	MAX	78	74	80	80	81	83	84	86	91	83	77	74	76	80	89	91	83	74	69	70	80	84	90	87	69	70	68	74	70	73	83	79.1
	MIN	57	53	53	57	56	59	59	65	61	61	58	58	55	63	65	64	67	53	55	38	45	51	66	61	51	56	60	61	58	52	46	56.8
VINTON	MAX	79	73	82	75	82	83	84	84	92	83	82	73	76	80	92	92	81	78	67	70	81	83	87	86	78	68	78	75	68	62	80	79.2
	MIN	53	54	50	59	51	59	57	64	59	60	59	56	59	62	59	59	67	53	50	36	41	49	65	62	57	59	61	63	51	58	49	56.2
WASHINGTON	MAX	84	76	84	76	85	86	88	82	87	87	76	70	74	78	90	92	85	77	73	72	80	86	90	87	82	80	80	82	74	88	78	80.9
	MIN	59	54	50	61	57	58	58	64	58	60	60	58	60	60	64	60	64	57	53	40	42	53	62	63	72	58	64	65	57	59	55	58.2
WATERLOO AP 5NE	MAX	88	79	73	82	76	82	85	85	86	93	81	77	74	78	82	90	92	76	66	71	81	87	90	87	70	71	68	74	69	70	79.4	
	MIN	60	55	50	59	56	57	57	65	61	62	59	59	57	56	64	61	68	53	52	33	43	49	57	61	52	52	56	61	50	55	48	55.7
WAUKEE	MAX	86	79	82	73	82	85	83	86	90	81	79	70	72	87	88	89	88	83	70	69	80	87	88	85	80	70	67	74	66	77	83	80.0
	MIN	64	54	54	61	62	63	62	65	66	67	60	58	63	65	65	64	62	52	58	40	49	57	66	66	57	58	53	63	59	60	50	59.5
WAUKON	MAX	71	76	79	80	78	81	82	81	88	79	70	72	74	75	86	86	76	72	65	67	76	77	86	81	78	66	65	69	66	68	81	75.8
	MIN	55	53	49	54	56	55	54	59	63	62	55	54	52	59	63	64	66	52	53	38	44	49	64	61	51	50	57	58	55	51	47	54.9
WEBSTER CITY	MAX	80	77	85	75	83	87	83	90	95	82	72	70	73	87	92	92	79	76	69	72	82	86	92	88	78	68	66	70	70	77	85	80.0
	MIN	56	50	48	60	62	61	61	58	61	61	55	58	59	63	65	62	62	45	54	35	44	46	65	63	48	50	59	59	57	51	47	55.6
WILLIAMSBURG	MAX	81	75	80	73	82	83	85	80	88	84	75	69	72	78	89	91	82	74	69	68	79	85	87	85	77	72	78	77	69	69	77	78.5
	MIN	61	55	51	61	59	59	59	64	59	60	60	58	59	61	63	62	66	55	58	40	45	54	63	62	59	57	62	60	61	57	50	58.1
WINTERSET	MAX	85	78	81	78	83	84	84	83	89	85	77	73	67	88	88	89	81	88	67	71	80	85	88	85	78	69	69	75	67	75	81	79.7
	MIN	55	53	51	60	61	61	61	64	64	61	59	58	60	64	64	62	63	48	56	40	46	55	64	64	56	55	52	59	55	60	48	57.4
WOODWARD 7N	MAX	81	76	80	73	79	83	84	88	90	78	74	68	72	84	85	87	76	76	71	70	81	85	89	86	78	66	67	72	68	74	82	78.2
	MIN	56	50	51	61	62	61	61	63	63	64	59	57	61	65	64	61	64	50	56	39	46	53	65	63	53	55	61	61	58	57	49	57.7

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7 AM	67	63	64	66	66	67	67	70	71	71	64	63	62	66	69	69	71	60	64	52	56	61	69	70	65	65	66	64	61	60	56	64.7
	12 M	86	82	82	72	82	89	87	92	92	69	72	62	70	76	86	91	79	80	76	77	78	82	85	85	78	70	68	71	64	73	81	78.6
	7 PM	80	82	83	70	82	84	80	86	83	74	70	66	67	81	85	87	78	80	70	71	77	80	83	82	73	68	67	67	64	71	77	76.4
2 1/4 Inches	7 AM	67	64	64	67	66	67	68	70	72	71	65	64	63	66	69	69	71	61	65	54	58	62	69	70	66	66	66	64	62	60	57	65.3
	12 M	86	82	82	71	80	86	84	90	92	70	71	63	70	75	86	91	79	80	76	78	79	82	85	83	78	70	68	71	65	73	80	78.3
	7 PM	80	80	81	70	80	81	79	84	84	74	70	66	66	78	83	84	77	79	70	72	77	80	82	81	73	68	67	68	64	70	75	75.6
4 Inches	7 AM	70	68	68	71	68	69	70	72	74	73	67	66	64	66	70	71	74	65	68	59	62	66	71	72	70	68	67	65	64	62	60	67.7
	12 M	78	76	75	72	74	78	78	81	82	75	69	65	66	69	77	80	76	73	72	69	70	74	77	78	75	70	68	68	65	68	72	73.2
	7 PM	82	82	82	72	80	84	81	86	85	77	72	68	68	79	85	87	80	81	74	75	78	80	83	82	77	70	68	70	66	74	79	77.6
8 Inches	7 AM	74	72	72	74	69	71	73	74	76	76	70	69	66	66	71	73	75	70	71	66	67	69	72	74	73	70	68	66	66	64	65	70.4
	12 M	74	72	72	72	70	72	73	74	76	74	70	67	66	67	71	73	74	70	70	66	66	69	72	73	72	70	68	67	65	64	65	70.1
	7 PM	78	77	77	72	75	78	78	80	82	76	71	67	67	73	78	80	77	76	72	72	73	75	78	78	75	70	68	69	66	70	73	74.2
20 Inches	7 AM	70	70	70	70	69	68	69	70	70	71	70	68	67	66	67	68	70	70	69	68	67	67	68	69	69	69	68	67	66	65	65	68.4
	12 M	71	70	70	70	69	69	70	70	72	71	70	68	67	67	67	69	70	70	69	68	68	68	68	68	69	70	69	67	66	66	66	68.7
	7 PM	70	70	70	69	68	68	69	70	70	70	69	68	67	66	67	69	70	69	68	67	67	67	68	69	69	68	67	66	66	65	65	68.1
40 Inches	7 PM	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	64	64	64	64	64.9	
	7 PM	60	60	60	60	60	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	60.7	
4 Feet Above Ground	7 AM	65	57	61	62	67	67	65	68	69	70	62	60	61	66	69	69	67	54	58	47	53	56	69	69	56	60	62	63	59	58	53	62.0
	12 M	79	70	79	69	79	81	82	85	89	64	71	58	72	76	80	86	73	72	61	65	78	80	87	83	68	64	65	69	62	70	78	74.0
	7 PM	71	72	72	69	75	73	71	76	75	71	69	66	67	75	75	78	68	68	58	58	68	75	77	78	62	65	64	63	64	65	73	69.7

COUNCIL BLUFFS, IOWA

EVAPORATION AND WIND

IOWA
AUGUST 1950

Table 6

Station		Day of month																														Total or ave	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
Ames 3 SW	EVAP	.33	.26	.33	.17	.20	.32	.26	.19	.33	.13	.12	.07	.09	.13	.25	.35	.27	.22	.27	.26	.28	.34	.42	.31	.28	*	*	.07	.06	.19	.21	6.71
	WIND	60	45	48	40	38	53	50	4	29	33	26	46	56	37	59	65	40	17	47	31	75	61	157	105	65	36	8	.23	.34	.46	.24	1458
Cherokee	EVAP	.26	.19	.20	.10	.10	.24	.05	.16	.29	.16	.13	.07	.03	.15	.25	.26	.28	.21	.25	.22	.22	.21	.22	.21	.15	*	.08	.04	.12	.13	5.15	
	WIND	41	47	12	14	17	56	8	8	25	15	14	35	23	34	11	78	48	13	76	42	62	50	82	85	32	*	21	13	14	9	996	
Iowa City	EVAP	.29	.29	.18	.12	.20	.27	.21	.21	.21	.46	.14	.11	.13	.11	.21	.25	.25	.25	.20	.19	.05	.14	.21	.09	.22	.13	.10	.10	.07	.06	5.62	
	WIND	53	120	22	22	25	35	27	19	27	23	25	26	31	25	27	25	56	69	71	32	48	36	61	56	61	38	32	31	33	38	1224	
Norwich 2 E SCS Farm	EVAP	.29	.28	.31	.18	.26	.19	.19	.13	.31	.15	.12	-	-	-	-	-	-	-	.14	.15	.19	.29	.18	.24	.20	.02	.10	.14	.11	5.71B		
	WIND	30	59	49	76	45	61	53	35	23	21	36	45	40	41	35	27	47	14	54	21	60	50	62	68	40	17	26	23	23	1214		

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the postoffice.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830 C.S.T.

- No record in Tables 3, 4, 6, 7 and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- AR This entry in time of observation column in Station Index means after rain.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record.
- R Daily values and monthly total from recording gage. All other data in Table 3 are from non-recording gages.
- T Trace, an amount too small to measure.
- Y Includes total for previous month.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual; \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 811 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 10-16-50 -- 1175

STATION INDEX

1984
AUGUST 1984

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9 41 02	94 12	1200	6P	5P	CLOSED		3-23-50	Norse 4 mi. SW	8742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4
Akron	0088	Plymouth	1 42 40	96 33	1153	6P	6P	Orlan G. Moore			Mount Apr. 2 mi. W	8789	Kinggold	9 40 44	94 18	1214				H. L. Cornelison	2 3 4 5
Albia	0113	Monroe	8 41 02	92 48	949	8P	7A	Arthur L. Freed		2 3 5	Mount Pleasant	8796	Henry	21 40 57	91 33	730				A. M. Patterson	2 3 4 5
Algona	0133	Kossuth	6 43 04	94 14	1200	7P	7P	Narry H. Nolte		2 3 5 7	Novilla	8823	Woodbury	11 42 29	96 04					Joseph H. Bahner	3 4
Allerton	0149	Wayne	9 40 42	93 33				CLOSED			Muscataine No. 1	8827	Muscataine	18 41 28	91 03	680				F. J. Bauerbach	2 3 4 5
Allison	0157	Butler	4 42 46	92 47	1060	7P	7P	D. Tellinghuisen		2 3 5	Muscataine No. 2	8842	Muscataine	14 41 25	91 03	546				Robert A. Nagy	3
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7P	F. Edna Allen		2 3 5	Muscataine 6 mi. S	8847	Muscataine	14 41 30	91 03					CLOSED	3-23-50
Alton	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. B. Sigle		2 3 5	Nashua 2 mi. NW	8872	Floyd	4 42 39	92 34	990				William A. Cory	3
Ames 3 mi. SW	0205	Story	21 42 00	93 39	1064	7P	7P	Charles M. Brown		2 2 4 5 6 7	Nes Hampton	8952	Chickasaw	27 43 04	92 10	1156				Loddy Brillicks	2 3 5
Anamosa 1 mi. NW	0213	Jones	27 42 07	91 18	873	7P	7P	State Refractory		2 3 5	Newton	8992	Jasper	21 41 42	93 04	950				Al A. Schuel	2 3 5
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59	1110	8P	7P	Roy L. Fancoll		2 3 5	North English	8076	Iowa	4 41 29	92 05	780				Barrett E. Andrews	3 4
Atlantic AP CAA	0369	Cass	16 41 24	95 02	1152	MID	MID	Always Com. Sta.		2 3 4 5 7	Northwood	8103	North	4 43 27	92 13	1222				Charles A. Walker	2 3 5
Audubon 2 mi. S	0385	Audubon	15 41 42	94 57	1297	6P	6P	Ralph E. Kirby		2 3 5	Norwich RCE Exp. W. ZE	6119	Page	22 40 45	95 12	1123				Soil Cons. Service	2 3 4 5 6 7
Augusta	0289	Des Moines	21 40 46	91 17	922	5A	5A	Glen Wood		3	Oakland 2 mi. E	6151	Pottawattamie	16 41 19	95 23	1150				Ward O. Heineke	2 3 5
Bancroft	0483	Kossuth	6 43 18	94 17	1200	7P	7P	Guy D. Hart		2 3 5	Oasis	6188	Johnson	10 41 43	91 24					Ed. Kadera	3 4
Barlett 3 mi. E	0493	Fresno	38 40 53	95 44				R. L. Kilpatrick		3	Oelwein	6200	Fayette	27 42 40	91 35	1036				CLOSED	3-16-50
Beaver	0549	Boone	6 42 02	94 08				Archie E. Sparks		3 4	Osage	6243	Monona	15 42 02	96 06	1050				W. J. Oliver	2 3 5
Bedford 1 mi. E	0576	Taylor	28 40 41	94 44	1215	6P	6P	B. J. Chambers		2 3 5	Osage	6205	Mitchell	4 43 17	92 48	1170				L. J. Lamprich	2 3 5
Belle Plaine	0600	Benton	10 41 34	92 17	855	7P	7P	Walter C. Kabe		2 3 5	Oscaloosa	8316	Clarke	6 41 02	93 40	1136				Ray A. Kerna	2 3 5 7
BelleVue Lock & Dam 12	0608	Jackson	14 42 16	90 25	803	7P	7A	U. S. Engineers		2 3 4 5	Ottumwa	8327	Mahaska	6 41 17	92 40	813				Cliff Bergstrom	2 3 5 7
Blackton 2 mi. E	0745	Taylor	19 40 36	94 28	1081	5P	5P	Glenn A. Cobb		3	Ottumwa AP CAA 5 mi. N	8369	Wapello	6 41 08	92 27	843				Always Com. Sta.	2 3 4 5 7
Bloomfield 2 mi. W	0753	Davis	8 40 47	92 26	825	7P	7P	Mrs. Leo Foster		2 3 5	Ottumwa	8391	Wapello	6 41 09	92 24	820				Frederick Kinnear	2 3 5
Boone	0807	Boone	6 42 04	93 33	1126	6P	6P	E. G. Kohn		2 3 5	Pella	8527	Warrick	6 41 28	92 55	875				Arthur E. Tavigne	3
Brist	0923	Hancock	10 43 04	93 49	1234	6P	6P	Har. D. A. Buet		2 3 5	Perry 2 mi. SE	8556	Dallas	20 41 51	94 06	975				Eugene H. Hamlin	2 3 5
Burlington WB Airport	1063	Des Moines	14 40 47	91 06	695	MID	MID	U.S. Weather Bureau		2 3 4 5 7	Pocahontas	6718	Pocahontas	8 42 44	94 40	1328				Thomas A. McBrion	2 3 5
Carroll	1233	Carroll	20 42 04	94 52	1280	7P	7A	Ben H. Schenkelberg		2 3 5	Primghar	6800	O'Brien	11 43 03	95 38	1317				A. D. Ballard	2 3 5
Cascade	1257	Dubuque	12 42 18	91 00	880	7P	7P	C. J. Welers		2 3 4 5	Red Oak	6940	Montgomery	16 41 01	95 13	1077				Clarence M. Totty	2 3 5
Castana 4 mi. E	1277	Monona	11 42 04	95 49		7P	7P	Bob Zimmerman		2 3 5 7	Red Oak 1 mi. SW	6941	Montgomery	16 41 01	95 13					W. E. M. O'Connell	3
Cedar Falls	1300	Black Hawk	4 42 32	92 37	875	7P	7P	E. J. Cable		3	Reasen	6975	Plymouth	7 42 49	95 58					Municipal P. & L. Pl.	3 4
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster		2 3 3 7	Ringsted	7058	Emmet	6 43 18	94 30					Marvin A. Treese	3 4
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40				C. M. Eison		3	Riverton	7085	Fremont	16 40 41	95 35	920				William Stubbs	3
Centerville	1354	Appanoose	5 40 43	92 53	1013	7P	7P	Earl McIntire		2 3 4 5	Rock Rapids	7147	Lyon	1 43 26	96 10	1341				George Raveling	2 3 5 7
Chariton 3 mi. E	1394	Lucas	5 41 00	93 15	940	7P	7P	Ellis Shaw		2 3 5	Rockwell City	7161	Calhoun	30 42 24	94 37	1223				F. C. Beitelbacher	2 3 4 5
Chariton City	1402	Floyd	4 48 04	92 40	1013	MID	MID	U.S. Weather Bureau		2 3 4 5	Sac City	7312	Sac	20 42 26	94 59	1274				Floyd Weary	2 3 5
Cherokee	1443	Cherokee	11 42 45	95 33	1358	7P	7P	J. Earl Wirth		2 3 4 5 6 7	Saint Ansgar 2 mi. S	7326	Mitchell	4 43 21	93 47					Irvin L. Halverson	3 4
Clarence	1528	Cedar	4 41 33	91 03				Ronald W. Harross		2 3 5	Saint Charles	7340	Madison	6 41 16	93 47					Kenn E. Wise	3 4
Clarinda	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Weikend		2 3 5	Saraborn	7386	O'Brien	7 43 11	93 39	1552				Wesley E. Dow	2 3 5
Clarion	1541	Wright	2 42 44	93 44	1170	7P	7P	George Heider		2 3 5	Sheldahl	7410	Howard	22 42 22	92 22					Don A. Fairchild	2 3 5 7
Clinton No. 1	1632	Clinton	14 41 50	90 11	389	7P	7P	Samuel W. Williams		2 3 5 7	Shelfield	7572	Franklin	4 42 54	93 13					Richard J. Galvin	3 4
Clinton No. 2	1640	Clinton	14 41 50	90 11				David M. Swift		3	Sheldon	7594	O'Brien	7 43 19	96 01	1418				Rose E. Forward	2 3 5
Columbus Junction	1731	Louisa	10 41 37	91 32	595	6P	6P	Alice Best		2 3 5	Shell Rock	7602	Butler	4 42 43	92 35					Eileen J. Apfel	2 4
Coon Rapids	1793	Carroll	20 41 51	94 39				Charles W. Smith		3 4	Shenandoah	7613	Page	16 40 46	95 23	974				Earl Ray Seed Co.	2 3 5 7
Corning 1 mi. W	1833	Adams	17 41 00	94 45	1300	7P	7A	W. Earl Gibson		2 3 5	Sibley	7664	Oswego	1 43 24	95 45	1494				R. D. Steward	2 3 5
Council Bluffs 6 mi. NE	1888	Pottawattamie	15 41 20	95 49				Mrs. H. O. Crane		3 4	Sidney	7669	Fremont	18 40 45	95 36	1050				James L. Shearer	2 3 5
Council Bluffs 5 mi. NE	1889	Pottawattamie	15 41 19	95 49				Perry C. Crandall		2 3 5 7	Sigourney	7670	Keokuk	21 41 20	93 12	780				Grace L. Schneider	2 3 5
Cresco	1954	Howard	23 43 22	92 07	1285	6P	6P	Guy D. Humphrey		2 3 5	Sioux Center	7700	Sioux	1 43 05	96 12	1456				Richard J. Kroon	3 4
Creston	1962	Union	19 41 03	94 22	1300	7P	7A	Nellie Spangley		2 3 5	Sioux City 8 mi. N	7703	Plymouth	15 42 35	96 24					Leo Vondrak	3 4
Cumberland 5 mi. NW	2007	Cass	17 41 18	94 55	1255	6P	6P	Carl E. Pollock		3	Sioux City WB Airport	7708	Woodbury	15 42 32	96 25	1093				U.S. Weather Bureau	2 3 4 5 7
Cushing	2026	Ida	11 42 28	95 40	1350	7P	8A	Walter G. Pfeiff		2 3 4 5	Sioux City 4 mi. N	7713	Woodbury	15 42 32	96 25					Dan McKelvey	3 4
Dakota City	2037	Humboldt	6 42 44	94 12	1133	7P	7P	H. S. Braadsgard		2 3 4 5	Sioux Rapids	7729	Buena Vista	11 42 53	95 08	1275				W. A. Eimerson	2 3 5
Davenport WB City	2069	Scott	14 41 31	90 34	579	MID	MID	U.S. Weather Bureau		2 2 5 7	Soldier	7774	Monona	15 41 59	95 46					John T. Wade	3 4
Decorah	2110	Winnebago	24 43 18	91 48	859	5P	5P	Walter Bates		2 3 5	Spencer 1 mi. W	7844	Clay	11 43 10	95 09	1331				Radio Station WICD	2 3 4 5 7
Decorah 2 mi. S	2112	Winnebago	24 43 13	91 47	880	7P	7A	Mora A. Carlson		2 3 5 7	Spillville	7855	Winnebago	14 43 12	91 57					Louis J. Benda	2 3 4 5
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23	1083	7P	7A	Clair E. Paris		2 3 5	State Center	7925	Marshall	10 42 01	93 10	1068				Otha A. Sweet	2 3 5
Denison 1 mi. S	2171	Crawford	4 42 00	95 22		7P	7P	E. M. Hugg		2 3 5 7	Stora Lake 2 mi. E	7979	Buena Vista	26 42 38	95 11	1425				Radio Station KAYL	3 4 5
Derby	2195	Lucas	5 40 55	93 37				Lloyd A. Kirk		3 4	Strawberry Point	8009	Clayton	14 43 41	91 31					W. R. Zwanziger	3 4
Des Moines WB Airport	2203	Polk	6 41 32	93 39	854	MID	MID	U.S. Weather Bureau		2 3 4 5 7	Tabor 6 mi. NW	8131	Wells	15 40 57	95 43					Raymond C. Yates	2 3 5
Des Moines WB City	2208	Polk	6 41 35	93 37	800	MID	MID	U.S. Weather Bureau		2 3 4 5	Tangley	8255	Ringgold	19 40 51	94 1						

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

In Cooperation With

IOWA DEPARTMENT OF AGRICULTURE

CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

SEPTEMBER 1950

Volume LXI No. 9



IOWA - SEPTEMBER, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

September 1950 averaged slightly below the normal in both temperature and precipitation. The 1st and 2nd weeks were especially cool; the 3rd week the warmest, while the last week averaged slightly below normal. From mid-June to mid-September there were thirteen consecutive weeks with below-normal temperatures, making the summer of 1950 one of the most consistently cool summers of record. The highest temperature in the State was 92° at Atlantic on the 19th; the lowest 24° at the Decorah Fish Hatchery on the 24th. Scattered frosts were reported from many sections of the State on the morning of the 24th, with indications of limited damage, particularly in the northeast.

Precipitation averaged approximately half the normal amount for September. There were wide variations in the amount of rainfall in different sections of the State. Independence reported more than nine inches; the Sioux City Airport recorded less than 1/10 inch. In general, heavy amounts were measured in the northern counties, moderate amounts in the southern counties, and very light amounts over a narrow belt extending from Harrison and Pottawattamie Counties eastward to Johnson County.

The month opened with the State covered by a weak high pressure system. Weak low pressure systems passed near the State, without materially affecting the weather. On the 4th, an intensive high pressure system, with generally fair and cool weather, moved into the upper Mississippi Valley and later drifted slowly eastward, dominating the weather in Iowa through the 8th. This was followed by another weak low pressure trough, followed in turn by another high pressure ridge with rather cool weather from the 12th through the 14th.

On the 20th a low developed over eastern Colorado, moved rapidly eastward to central Iowa by midnight, and intensified over central Iowa. This was the most severe rainstorm of the month. At Eldora, 7.45 inches of rain fell within a few hours; more than six inches were recorded at Emmetsburg, Hubbard and Independence; more than five inches at Radcliffe and Buckeye. In the City of Waterloo, basements were flooded, streets damaged, and power transmission interrupted. Further east, five homes in the town of Zwingle were flooded to a depth of five feet and the occupants were forced to flee by a flash flood in the headwaters of Otter Creek. There were numerous other flash floods in the creeks in the heavy rain area; in most cases the high water lasted approximately one hour. On Highway 20, two bridges were washed out, and elsewhere two bridges were reported under water. Rural roads were reported impassable in many sections; near Steamboat Rock the schools were forced to close temporarily. In the vicinity of Independence a freight train was derailed following the weakening of a trestle.

During the remainder of the month, there was a succession of weak pressure ridges and troughs, with high pressure especially dominant from the 22nd through the 27th. There were heavy rains locally in the State on the 21st.

The weather during September 1950 was not particularly favorable for the major crops. Damage to the corn crop by the frosts of the 24th was mainly local. However, the crop appeared slow in maturing, with indications that the moisture content at the close of the month was still very high. Ear development was smaller than in any recent year, and there were indications that a considerable portion of the crop would be lightweight and chaffy. Dry, hard ground in many sections had delayed fall plowing and the seeding of winter wheat.--CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages --mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet

the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
SEPTEMBER 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over				Total
Burlington WB Airport	NE	15	8.6	27	SW	18	86	95	65	75	4	3	2	1	0	0	10	56	6.3	See Table 2
Charles City WB City	-	-	5.0	20	S	27	-	-	-	-	1	5	2	1	1	0	10	62	4.9	
Davenport WB City	-	-	-	-	-	-	-	-	-	-	7	2	2	1	0	0	12	-	-	
Des Moines WB City	SSE†	10†	7.7	26	SW	18	78†	88†	56†	58†	2	3	2	0	0	0	7	63	5.3†	
Dubuque WB City	-	-	4.7	27	E	21	-	-	-	-	3	4	2	1	1	0	11	59	5.8	
Sioux City WB Airport	ESE	12	8.1	34	S	30	83	92	56	61	6	3	0	0	0	0	9	81	5.1	

†--airport data

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	59.1	89	33	2.18			1903	60.8	94	28	3.81	0	10	1933	69.4	105	29	4.16	0	8
1874	62.8	90	40	6.04			1904	64.0	94	30	2.78	0	7	1934	61.0	94	25	5.07	0	12
1875	60.6	92	37	5.02			1905	65.8	96	36	3.81	0	8	1935	65.0	96	25	3.46	0	8
1876	60.4	86	38	6.42			1906	67.2	100	27	4.16	0	8	1936	68.0	102	31	7.22	0	11
1877	65.4	96	40	1.95			1907	62.8	98	25	2.75	0	8	1937	65.9	103	28	1.50	0	4
1878	62.9	92	38	3.13			1908	67.9	98	20	1.20	T	3	1938	66.8	101	29	5.67	T	8
1879	59.3	90	24	2.70			1909	62.4	94	30	3.58	0	9	1939	69.3	107	16	0.82	T	3
1880	61.1	90	30	4.18			1910	63.2	99	30	3.59	0	9	1940	65.8	98	27	0.94	0	3
1881	64.5	103	37	7.14			1911	65.8	103	32	5.12	T	10	1941	66.6	95	26	7.74	0	12
1882	63.4	97	31	0.87			1912	62.1	104	24	3.98	T	11	1942	61.4	96	18	4.13	0.7	12
1883	58.5	93	30	2.04			1913	64.5	107	19	3.31	0	9	1943	60.3	94	27	2.18	0	7
1884	66.5	95	30	5.20			1914	64.5	99	30	7.88	0	10	1944	64.3	94	31	2.25	0	8
1885	61.7	92	32	3.04			1915	63.7	91	30	6.03	0	11	1945	62.9	100	21	4.37	T	11
1886	63.0	97	30	4.68			1916	62.5	98	21	3.89	T	7	1946	63.2	95	26	4.94	0	9
1887	62.1	98	30	6.17			1917	62.6	97	28	2.90	0	7	1947	67.6	104	21	2.10	T	5
1888	59.9	96	26	1.07			1918	58.6	93	20	1.87	T	6	1948	68.0	102	19	2.02	0	4
1889	60.7	96	23	2.80			1919	67.5	99	33	5.34	0	8	1949	59.2	91	16	3.21	T	7
1890	59.5	96	23	2.71			1920	66.5	98	24	3.30	0	8	1950	63.0	92	24	2.03	T	5
1891	67.3	104	28	1.33		4	1921	67.3	99	31	6.72	0	11							
1892	64.7	99	29	1.53		4	1922	67.1	103	31	2.03	0	6							
1893	64.7	102	18	2.34		4	1923	64.2	92	28	5.79	0	11	PERIOD	63.9			3.73	T	
1894	65.1	100	26	3.57		8	1924	59.1	91	25	3.13	0	8							
1895	66.8	103	22	3.03		5	1925	69.0	105	32	5.04	0	9							
1896	58.5	95	22	4.09		10	1926	63.0	92	18	9.76	T	14							
1897	70.9	106	26	2.04		4	1927	67.4	101	29	4.56	T	10							
1898	65.3	99	29	2.69		7	1928	60.5	93	24	3.08	0	6							
1899	62.5	104	15	0.93		4	1929	62.4	98	25	3.74	T	9							
1900	64.4	99	26	4.98		9	1930	66.3	101	25	2.31	0	5							
1901	63.3	102	26	4.77		9	1931	71.0	105	35	6.69	0	12							
1902	59.1	88	23	4.35		9	1932	62.2	94	27	2.05	T	5							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
SEPTEMBER 1950

Table 2

Station	Temperature										Precipitation								
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																			
Alta	63.0	-.4	86	1	39	24	98	0	0	2.44	-1.46	1.40	20	.0	0		5	2	1
Cherokee	62.2	-1.5	87	1	33	24	113	0	0	2.19	-1.61	1.87	20	.0	0		5	1	1
Emmetsburg	61.3		85	18	35	24	129	0	0	7.09		6.40	21	.0	0		4	2	1
Estherville	62.0	.5	89	1	32	24	115	0	1	4.22	.51	3.50	20	.0	0		5	2	1
Hawarden	63.4	-.1	90	1+	36	24	89	2	0	4.62	1.32	3.30	20	.0	0		7	2	1
Inwood 2 W	62.6	-.6	89	1	36	28	132	0	0	1.95	-.95	1.26	21	T	0		5	2	1
Lake Park	61.0	-.9	86	1	36	24	133	0	0	1.62	-1.98	1.14	21	.0	0		2	2	1
Le Mars	64.8	1.3	88	1	38	24	65	0	0	1.68	-1.86	1.22	20	.0	0		3	2	1
Milford 4 NW	61.4	-1.1	85	1+	36	24	124	0	0	2.18	-1.42	1.21	21	.0	0		5	2	1
Pocahontas	62.2	-1.4	87	18	33	24	112	0	0	2.23	-1.55	2.00	20	.0	0		3	1	1
Pringhar	62.9	-.8	86	1	38	24	95	0	0	3.95	.35	2.70	20	.0	0		5	2	1
Rock Rapids	62.2	-.3	87	1	35	24	163	0	0	1.90	-.95	.88	21	.0	0		5	2	0
Sanborn	61.6	-.9	85	1	34	24	123	0	0	3.32	-.23	1.35	20	T	0		7	3	2
Sheldon	61.3	-1.5	85	1	35	24	131	0	0	2.89	-.39	1.79	20	T	0		5	3	1
Sibley	60.6	-1.0	84	1+	32	24	153	0	1	2.13	-1.22	1.10	21	.0	0		6	2	1
Sioux Rapids	61.2	-2.6	87	18	32	24	135	0	1	3.98	.28	2.54	20	.0	0		4	2	2
Spencer 1 N	60.5	-3.2	85	1	31	24	151	0	1	3.18	-.46	1.60	20	.0	0		5	2	2
Storm Lake 2 E	62.1	-1.4	84	1+	36	24	108	0	0	1.96	-1.81	1.16	20	.0	0		4	2	1
DIVISION	62.0	-1.0								2.97	-.56			T					
NORTH CENTRAL DIVISION																			
Algona	61.8	-1.3	85	18	36	24	113	0	0	2.20	-2.08	1.55	21	.0	0		7	2	1
Bancroft	63.2	1.4	87	1+	34	24	84	0	0	3.11	-.64	1.80	21	.0	0		4	2	1
Britt	62.3	-.2	86	9	33	24	109	0	0	2.68	-1.44	2.07	12	T	0		6	1	1
Charles City	61.5	-.4	85	18	34	24	125	0	0	2.54	-1.46	1.01	11	.0	0		9	3	1
Clarion	61.6	-1.9	86	18	35	24	119	0	0	5.05	.90	2.60	21	.0	0		5	3	2
Dakota City	62.4	-1.1	86	18	33	24	103	0	0	3.07	-.74	1.19	21	.0	0		5	4	1
Forest City	61.8 M	-.1	82		32	23	121		1										
Hampton	61.7	-2.1	87	18	33	24	120	0	0	4.70	.60	1.85	21	.0	0		7	4	2
Mason City 3 N	60.9	-1.0	85	18	29	24	141	0	1	3.33	-.51	.85	20	.0	0		9	4	0
Mason City AP CAA	60.0	-1.9	86	18	31	24	161	0	1	2.30	-1.54	1.04	20	.0	0		9	3	1
Northwood	60.6	-.7	84	9+	31	24	145	0	1	1.68	-2.57	1.08	21	.0	0		7	1	1
Osage	60.7	-1.2	85	18	32	24	141	0	1	2.69	-1.02	1.25	29	.0	0		7	2	1
DIVISION	61.5	-1.0								3.03	-.99			T					
NORTHEAST DIVISION																			
Cascade	62.4		86	9+	30	24	108	0	1	2.93		2.20	21	.0	0		5	2	1
Cresco	61.2	1.1	83	9	31	24	127	0	1	2.37	-1.27	1.04	21	.0	0		5	2	1
Decorah	60.9		86	18	29	24	140	0	1	1.93		1.23	21	.0	0		5	3	1
Decorah 2 S	58.2 M	-2.8	84	18	24	24	218	0	5	2.24	-1.89	1.11	21	.0	0		7	3	1
Delaware 2 W	61.3 M	-1.3	85	18	33	24	123	0	0	3.77	-.62	2.64	21	.0	0		8	2	1
Dubuque L & D 11	62.5	-1.6	84	18	35	24	98	0	0	2.59	-1.33	1.75	21	.0	0		7	2	1
Dubuque WB City	63.6	-.5	85	18	37	24	75	0	0	2.72	-1.20	1.50	21	.0	0		8	3	1
Elkader	61.2	-1.3	89	18	30	24	105	0	2	1.50	-2.34	.78	21	.0	0		4	2	0
Fayette	60.3	-1.7	86	18	28	24	168	0	1	1.83	-2.45	.78	21	.0	0		8	3	0
Guttenberg L & D	62.7	-1.3	86	18	34	24	94	0	0	4.18	.37	2.39	21	.0	0		8	4	1
Independence 2 W	62.1	-1.3	86	18	34	24	108	0	0	9.02	4.79	6.35	21	.0	0		7	4	2
New Hampton	61.2	-.9	85	18	32	24	128	0	1	5.33	1.13	1.50	18	T	0		9	4	4
Oelwein 2 SE					30	24+			4										
Saratoga 2 E	58.8		82	18	29	24	188	0	1	4.90		3.25	11	.0	0		5	3	2
Tripoli	62.6		87	18	32	24	99	0	1	2.13		.85	17	.0	0		7	2	0
Waterloo AP 5 NW	62.9	-.9	90	18	34	24	141	1	0	4.16	-.19	3.08	21	.0	0		4	3	1
Waukon	60.5 M	-.8	83	18	32	24	142	0	1	2.86	-1.14	.98	20	.0	0		6	4	0
DIVISION	61.4	-1.1								3.40	-.71			T					
WEST CENTRAL DIVISION																			
Audubon 2 S	61.7	-2.5	85	18	38	24	125	0	0	.70	-3.43	.34	10	.0	0		5	1	0
Carroll	62.8	-1.0	88	18	30	24	96	0	1	.36	-3.67	.25	29	.0	0		2	1	0
Castana 4 E	61.9		86	1	38	24	117	0	0	1.42		1.24	29	.0	0		3	1	1
Denison 1 S	61.8	-2.6	86	1+	32	24	124	0	1	1.11	-2.41	.38	29	.0	0		4	3	0
Guthrie Center	62.8	-1.0	87	18	35	24	97	0	0	.60	-3.33	.27	29	.0	0		5	1	0
Harlan	62.9	-1.7	86	18	35	24	100	0	0	.18	-3.64	.09	20+	.0	0		2	0	0
Ida Grove 4 SSE	63.2	-.8	89	1+	36	24	86	0	0	.60	-3.12	.48	29	.0	0		2	1	0
Jefferson	62.4	-2.0	86	18	34	24	110	0	0	1.22	-2.98	.82	21	.0	0		3	2	0
Lake City	62.7	-1.3	87	18	33	24	92	0	0	2.63	-1.37	2.28	29	.0	0		2	2	1
Logan	62.3	-3.3	88	1+	34	24	114	0	0	.27	-2.98	.07	20+	.0	0		4	0	0
Mapleton 5NW	62.0	-2.5	85	1+	35	24	116	0	0	1.37	-2.28	.80	20	.0	0		3	3	0
Missouri Valley	64.7	-.9	89	1	35	24	65	0	0	.28	-2.92	.12	20	.0	0		4	0	0
Onawa	63.8	-1.7	90	1	35	24	82	1	0	.49	-3.12	.25	20	.0	0		4	1	0
Rockwall City	62.8	-1.2	87	18	33	24	95	0	0	2.13	-1.92	1.57	29	.0	0		3	2	1
Sac City	64.5	.7	88	18	36	24	62	0	0	1.15	-2.60	.75	29	.0	0		3	2	0
Sioux City WB AP	63.1	-.5	89	1	36	24	96	0	0	.07	-3.37	.03	15+	.0	0		3	0	0
DIVISION	62.8	-1.7								.91	-2.81			.0					
CENTRAL DIVISION																			
Ames 3 SW	63.1	-1.3	87	18	32	24	101	0	1	1.22	-3.06	.57	11	.0	0		7	1	0
Ankeny 2 SW	64.5		88	18	35	24	69	0	0	.54		.40	29	.0	0		3	1	0
Boone	64.7	-.3	88	18	38	24	61	0	0	.62	-3.87	.30	21	.0	0		4	1	0
Des Moines WB AP	65.2	.3	89	19	38	24	65	0	0	.41	-3.50	.22	28	.0	0		4	0	0
Des Moines WB City	65.9	.1	89	1+	39	24	54	0	0	.44	-3.47	.22	28	.0	0		5	0	0
Fort Dodge	62.3	-1.2	87	18	33	24	105	0	0	1.94	-2.44	1.27	29						

DAILY PRECIPITATION

IOWA
SEPTEMBER 1950

Table 3-Continued

Station	Day of month																															Total				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Lamoni CAA AP 4 WNW															T	T				2.18	.13	.04						.01	.48	.25				3.09		
Lamoni CAA AP 4 WNW R																				2.45	.13	.07							.47	.26				3.38		
Lausing											T	.15							.04		1.00	.41						.32	.33	.01			2.26			
Larrabee																				3.23	.62								.08					3.97		
Le Claire											T	.71	.17	T					.03	T	.42	.30						.10	.01	T			1.74			
Le Claire L & D 14																				.02		.48	.26						.09	.01	.01			1.82		
Le Mars															T						1.22	.44						T	T	.02			1.68			
Lenox											.13	.04								.50	.14	.09						.02	.68	.52				2.12		
Logan											.06										.07	.07							T	.07				.27		
Lorimar																					.49	.44								.70				1.63		
Malvern 5 W											.19										.20	.10									.85			1.34		
Mapleton 5 NW											.30										.80	.27												1.37		
Maquoketa 5 E											.21	.62	.14	.02						1.26	T	.96	.02					.04	T	.04				3.31		
Marion 4 NE												1.65									.36	1.57							.13					3.71		
Marshalltown												.14									.56	.08							.12	.12				1.00		
Marshalltown											.10	.09									.56	.08							.07	.11	.06				1.07	
Mason City 3 N												.82	.17	.07					.02		.85	.58						T	.08	.72				3.33		
Mason City CAA AP												.19	.02	.01					.02		1.04	.28						.01	.01	.72				2.30		
Merrill 5 W																				.16		1.82								.19				2.17		
Millford 4 NW																			.06	.07	.80	1.21							.04					2.18		
Millerton																				.10		.23								.16	.34				.83	
Missouri Valley											.04										.12	.06								T	.06				.28	
Missouri Valley											.04										.04	.11	.07							.02	.05				.33	
Monmouth 4 SW																					.46	T	1.31							T						
Monona												.30								.64	.04	.57	.54						.20	.28				2.57		
Montezuma												.35	.10																	.05	.16				.69	
Morse												.05									.07	.17	.45						.05						.79	
Morse 1 NE												.05								.04	.09	.12	.43						.03						.76	
Morse 4 SSW												.41									.03	.21	.20						.05						.90	
Mount Ayr 2 N																					.50	.08							.25	.98					1.81	
Mount Ayr 2 N																					.48	.08								.85	.40				1.81	
Mount Pleasant																					.76	.64													1.40	
Mount Pleasant																					.76	.76													1.52	
Mount Pleasant																						.31	.11												.44	
Noville																					.21	T	.68							.03	T	.02			1.39	
Muscatine No 1											.05	.37	.03	T							.19	.09	.58							.02					1.31	
Muscatine No 1											.06	.34									.19	.09	.58							.01	.02				1.60	
Muscatine No 2											.04		.68	.03	T						.76	T	.69	.14						.33	.69				3.36	
Nashua 2 NW												1.19	.04							.76	T	.67							.21						5.33	
New Hampton												.18									.05	.05	1.15	1.09					.09	.24					.51	
Newton																																				
North English												.20									.06														.34	
Northwood												.07	.09	.08									1.08	.18											.68	
Norwich 2 E SCS E Pa																					.95	.14	.14							1.16	.10				1.68	
Norwich 2 E SCS E Pa R																					1.09		.14							1.14	.12				2.67	
Oakland 3 E												.01										.12	.06							.32	.10				.61	
Oasis												.04									.15	.05	.32												.57	
Oelwein 2 SE																					.40	T	2.40							.70	.10	T			.49	
Onawa												.05										.25	.05	T						.14						
Osage												.20	.07	.10								.92	.10							1.25	T				2.69	
Osceola																						.06	.34							.18	.50				1.08	
Oskaloosa												.62									.02	.02	.26							.06	.12	T			1.10	
Ottumwa CAA AP											.04										.04	T	1.06						T	T					1.37	
Ottumwa CAA AP																					.05		1.04							*	.28				1.37	
Ottumwa																						.04	.33	.53						.28					1.18	
Pella												.10										T								.05	.70				.85	
Perry 2 SE																						T	.06												.32	
Pisgah																							.77	T											.17	
Pocahontas																							2.00													.94
Pringhar																							2.70	.96											2.23	
Red Oak												.03	.09									.18	.39							.01	.71	.21			3.95	
Remsen																					.10		.05												2.23	
Ringsted																					.08		2.35												3.51	
Riverton												.02										.03	.30							T	.87	.30			2.59	
Rock Rapids																					.05	T	.71	.88											1.90	
Rockwell City																						.07	.49							1.57					2.13	
Rockwell City																						.22	.28												2.07	
Sac City																						.15	.25												1.15	
St. Ansgar 2 S																																				

HOURLY PRECIPITATION

Table 4

IOWA
SEPTEMBER 1950

Station	A. M. Hour ending												P. M. Hour ending												Total	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
HORNICK	-1st-																									
KEOKUK WBO	-8th-																									
KEOKUK WBO									.01	.01				.01	.01										-9th-	
KEOKUK WBO	-10th-																									
WOODBINE 5SE	-10th-																									
AMES 3SW																			.01	.48	.02	.02			-11th-	
ATLANTIC AP CAA	-11th-																									
BELLEVUE L/D 12	.01													.28	.01	.02	.01		.11	.63	.06			-12th-		
DES MOINES WB APT	-12th-																									
DUBUQUE WB CITY																								.05	-13th-	
GREENFIELD																		.04	.03						-15th-	
IDA GROVE 4SSE																		.06	.01						-16th-	
IOWA FALLS 1N																								.01	-16th-	
LENOX																	.07	.01	.04	.01					-16th-	
MARSHALLTOWN NO 2																								.08	-16th-	
MISSOURI VALLEY				.01	.01	.01	.01																	.02	-16th-	
MUSCATINE NO 1		.01	.02											.02	.01										-16th-	
SOLDIER					.25	.07	.02																		-16th-	
SPENCER 1N	6																							.02	-16th-	
TABOR 6NW					.06	.06	.17	.06	.01	.01															-16th-	
WASHINGTON		.02	.03																						-16th-	
WEBSTER CITY																									-16th-	
																									-16th-	
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DAILY SOIL TEMPERATURES

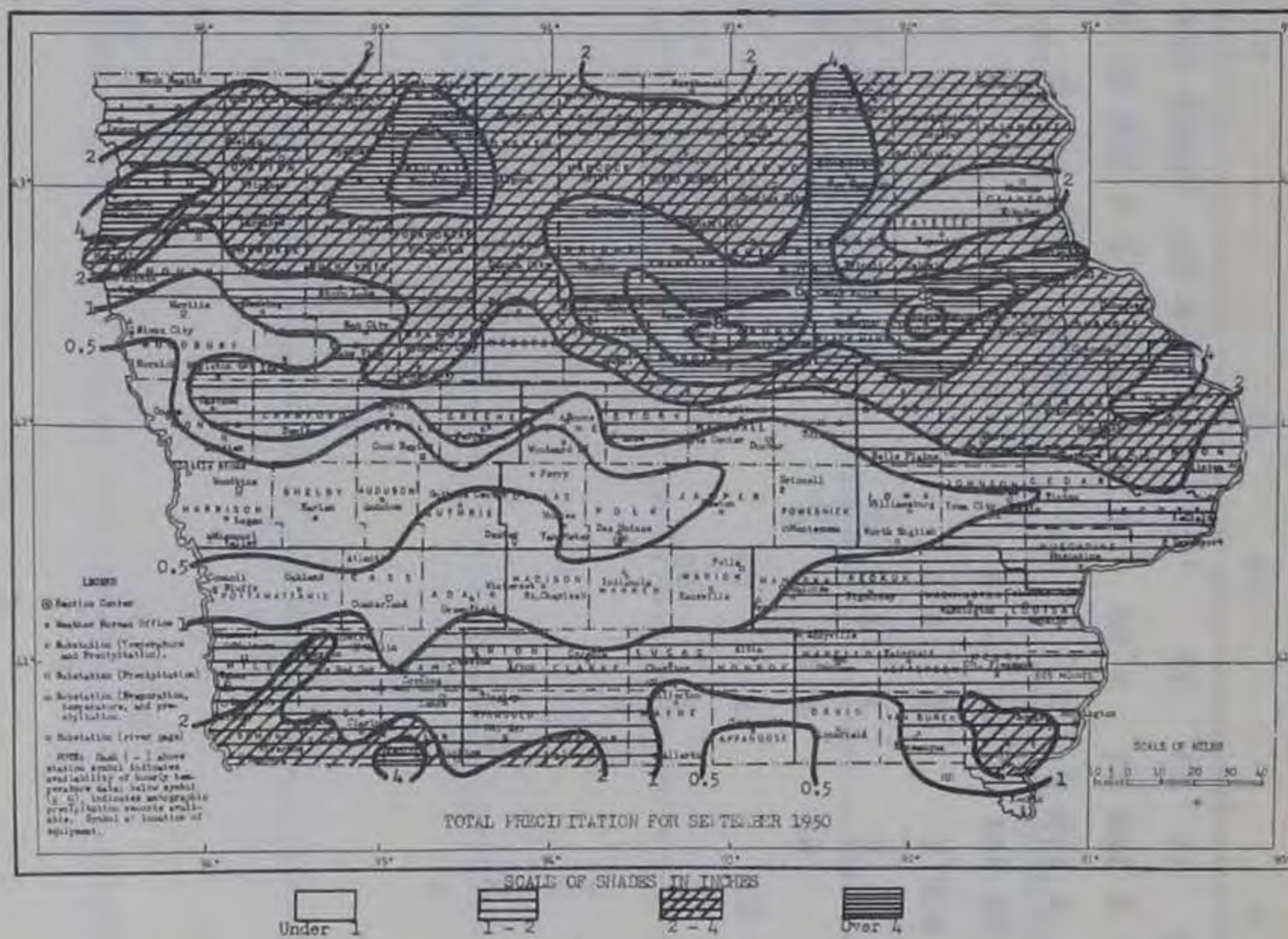
AMES, IOWA

IOWA
SEPTEMBER 1950

DEPTHS	TIME	Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
1 Inch	7AM	64	62	63	60	57	54	54	56	60	65	62	56	52	50	54	58	58	65	67	68	65	56	53	43	46	47	55	54	60	61		57.5
	12M	85	81	83	79	78	77	78	77	79	82	66	64	71	75	76	77	78	81	78	68	67	72	64	69	63	71	64	66	69		73.9	
	7PM	77	78	77	73	74	74	76	74	76	77	62	60	66	70	69	74	72	77	76	72	62	64	63	60	63	60	66	61	67	69		69.6
2 1/4 Inches	7AM	64	63	64	61	58	56	56	58	61	65	62	56	53	52	55	59	59	65	67	68	65	57	54	45	47	49	55	55	60	61		58.3
	12M	83	78	82	77	76	76	77	75	77	80	66	63	70	74	74	76	78	79	80	78	67	68	72	65	70	62	71	63	65	67		73.0
	7PM	76	76	76	72	73	73	74	72	75	76	62	60	66	69	69	73	71	77	74	72	62	65	63	60	63	60	65	61	66	68		69.0
4 Inches	7AM	66	66	67	65	63	61	61	62	64	68	66	60	57	56	59	62	63	66	69	70	67	60	58	52	52	53	57	58	60	61		61.6
	12M	76	75	76	73	71	70	70	72	75	86	63	65	66	67	70	70	72	75	74	69	64	67	59	60	59	63	62	63	64		68.2	
	7PM	80	80	81	78	77	76	78	75	78	79	67	63	70	73	72	76	74	77	78	74	66	68	69	65	67	64	67	63	66	68		72.3
8 Inches	7AM	68	70	70	70	68	66	66	66	67	69	69	64	61	61	63	65	66	67	70	70	69	63	62	59	58	58	59	62	60	62		64.9
	12M	69	69	70	69	67	66	66	66	67	69	67	63	61	61	63	65	66	67	70	70	68	63	62	58	58	58	60	61	61	62		64.7
	7PM	76	75	76	74	73	72	72	71	73	74	68	64	66	68	68	70	70	72	74	72	67	66	67	63	64	62	64	62	63	65		69.0
20 Inches	7AM	66	67	68	68	68	67	66	66	66	66	67	66	64	64	64	64	64	65	66	66	66	65	64	63	62	62	62	62	62	62		64.9
	12M	67	68	68	68	68	67	67	67	67	67	67	65	64	64	64	64	65	66	67	70	70	68	63	62	58	58	60	61	61	62		65.2
	7PM	66	67	68	68	67	66	66	66	66	66	66	66	65	64	63	64	64	65	66	66	66	65	64	63	62	62	62	62	62	62		64.8
40 Inches	7PM	64	64	64	64	64	64	64	64	64	64	63	63	63	63	63	63	62	63	63	63	63	63	63	63	63	62	62	61	61	61		62.9
72 Inches	7PM	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		60.7
4 Feet Above Ground	7AM	66	61	62	54	52	49	50	49	56	61	58	53	52	50	52	54	54	66	66	64	63	54	51	35	42	43	57	53	63	64		55.1
	12M	84	76	80	71	70	72	74	77	79	79	63	59	67	69	74	75	75	85	77	76	62	67	67	62	72	63	75	64	68	74		71.9
	7PM	71	71	69	63	64	64	67	68	72	73	58	58	60	61	64	67	64	78	69	70	61	64	57	52	55	54	65	57	71	73		64.7

COUNCIL BLUFFS, IOWA

1 Inch	12M	82	83	91	85	82	82	84	92	82		64	66	78	75	69	70		88	80	77	71	76	81	75	78	75	72	62	73	76		77.5
2 1/4 Inches	12M	85	85	91	82	79	79	80	88	80		65	65	72	73	68	68		83	85	77	70	72	75	70	72	69	69	62	70	74		75.3
4 Inches	12M	79	80	87	79	76	75	75	83	77		66	63	69	70	67	67		78	80	75	69	69	71	69	88	66	67	62	68	71		72.4
8 Inches	12M	71	72	77	71	70	68	68	71	70		66	62	62	62	65	66		71	73	72	68	65	65	63	62	62	64	62	65	67		67.1
20 Inches	12M	69	70	70	71	71	70	70	69	70		69	67	66	67	66	66		68	69	69	69	68	67	67	66	66	65	65	65	65		67.9
40 Inches	12M	67	67	67	67	67	67	67	67	67		67	67	67	67	66	65		66	66	66	66	66	66	66	66	66	65	65	65	65		66.3
72 Inches	12M	63	63	63	63	63	63	63	63	63		63	63	63	63	63	63		63	63	63	63	63	63	63	63	63	63	63	63	63		63.0



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
SEPTEMBER 1950

Table 5

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ALBIA	MAX MIN	87 56	86 55	86 53	77 49	77 41	78 41	81 44	80 47	87 55	84 57	67 54	63 49	72 45	75 47	77 49	78 49	79 50	86 61	89 68	83 62	74 58	71 54	73 50	67 34	74 42	65 45	78 53	69 53	79 57	81 61	77.4 51.6		
ALGONA	MAX MIN	81 58	78 54	74 58	72 48	72 47	75 45	77 45	81 48	79 47	80 56	71 53	58 51	67 51	73 45	74 48	73 47	77 53	85 59	78 54	68 59	66 58	76 51	67 48	64 36	75 44	70 42	70 50	66 47	69 53	74 61	73.0 50.5		
ALLISOY	MAX MIN	82 58	80 51	77 51	74 45	75 46	76 44	80 45	80 46	84 48	83 53	72 56	58 52	64 56	71 46	78 47	79 57	80 52	89 59														84 34	74.3 51.6
ALTA	MAX MIN	86 60	81 56	78 58	74 50	74 46	76 46	79 47	83 52	81 52	81 58	66 50	57 47	70 42	74 47	72 49	74 54	77 52	85 60	78 55	73 62	65 55	74 57	66 50	68 39	74 44	77 47	72 52	64 48	73 52	77 62	74.3 51.6		
AMES 3SW	MAX MIN	86 58	81 54	82 54	75 49	75 43	77 39	80 40	78 45	84 51	84 60	73 57	60 52	70 49	73 42	75 46	77 52	76 50	87 61	81 63	77 63	72 60	75 53	68 49	67 32	75 39	71 38	77 50	66 50	73 53	80 59	75.8 50.4		
ANAMOSA 1NW	MAX MIN	81 55	77 54	80 49	73 48	74 39	75 37	78 39	79 55	85 54	79 57	73 63	65 57	63 55	71 54	74 42	76 49	76 49	85 58	80 63	71 58	70 57	72 51	68 48	61 30	72 38	66 39	72 54	68 54	75 60	79 60	73.9 50.9		
ANKENY 2SW	MAX MIN	86 57	80 53	82 56	74 49	75 50	76 46	80 45	80 49	85 52	85 59	81 56	62 53	72 48	74 44	75 48	78 52	77 52	88 64	85 61	80 61	76 57	76 52	72 49	69 35	75 42	71 40	77 53	72 51	74 54	81 59	77.3 51.6		
ATLANTIC 1E	MAX MIN	88 53	85 52	84 50	81 47	79 45	79 39	83 40	85 41	83 47	84 57	63 52	58 48	73 42	78 40	77 44	82 51	79 49	86 62	92 60	81 82	75 66	73 46	84 44	70 32	74 38	73 45	76 54	64 50	80 54	74 64	78.1 48.8		
ATLANTIC AP CAA	MAX MIN	87 50	82 50	82 47	76 44	73 40	75 36	79 35	81 39	80 43	83 54	58 52	58 44	71 41	75 37	76 42	77 50	78 45	85 63	86 60	79 61	71 53	71 46	74 40	68 30	73 29	71 33	74 54	62 50	81 61	74 63	75.3 46.4		
AUDUBON 2S	MAX MIN	84 58	79 54	79 53	77 48	72 46	74 44	78 46	79 48	79 50	83 56	62 50	56 48	64 42	74 45	73 48	76 51	78 51	85 60	84 59	77 59	72 53	71 49	71 50	63 38	75 39	75 43	72 52	62 49	65 48	77 68	76.6 49.6		
BANCROFT	MAX MIN	87 58	84 54	80 50	79 45	79 46	82 45	84 45	87 46	86 48	86 54	75 52	57 51	65 50	76 41	76 45	75 45	80 53	86 59	81 53	73 58	67 58	80 49	72 47	67 34	79 43	70 44	73 49	68 47	77 52	76 60	75.1 49.7		
BEDFORD 1N	MAX MIN	86 58	80 59	86 58	75 51	72 46	73 46	77 47	79 52	81 56	78 58	65 51	63 46	72 45	75 50	71 48	78 57	76 53	84 61	85 65	79 62	75 56	76 57	68 50	67 39	74 43	69 46	74 54	68 52	77 53	82 63	75.1 52.7		
BELLE PLAINE	MAX MIN	84 57	81 55	84 51	74 49	76 44	78 42	81 45	79 49	85 55	83 52	72 58	61 53	66 54	76 51	77 45	78 54	79 59	88 65	80 63	74 60	72 53	76 50	68 33	67 36	78 40	65 54	78 51	71 56	82 61	76.3 51.5			
BELLEVUE L AND D 12	MAX MIN	77 55	75 56	77 45	70 50	73 39	74 35	77 39	78 45	80 59	79 61	67 56	68 57	74 55	76 43	75 46	78 45	84 57	79 61	83 68	84 57	73 51	70 51	73 35	65 37	60 40	70 35	65 40	67 55	67 56	75 59	72.9 50.0		
BLOOMFIELD 2N	MAX MIN	86 55	79 56	85 52	70 51	75 43	73 40	78 50	77 50	83 53	80 59	70 60	65 54		76 46	75 44		78 48	83 68	84 63	81 61	70 51	73 51	63 35	70 37	66 40	77 53			80 63	75.9 51.2			
BOONE	MAX MIN	82 52	83 54	81 59	77 48	77 50	78 50	82 50	78 49	84 53	85 60	71 55	60 52	70 48	75 46	76 52	78 54	77 55	88 63	82 63	78 63	72 61	75 52	65 51	69 38	78 49	45 45	52 52	52 53	60 60	79 60	76.3 53.0		
BRITT	MAX MIN	85 57	84 54	77 54	78 44	80 46	76 43	80 43	85 43	86 46	84 54	76 52	55 50	65 51	73 42	75 45	77 56	80 52	85 60	82 55	72 56	67 57	76 50	66 44	66 33	76 40	70 45	71 50	67 47	68 52	75 60	75.2 49.4		
BURLINGTON WB APT	MAX MIN	82 59	75 60	86 54	72 54	72 48	74 49	77 51	73 55	81 60	78 62	67 60	67 53	75 50	76 47	78 47	80 52	87 55	85 61	85 65	80 58	83 50	69 50	70 45	62 36	72 38	67 41	73 58	71 61	79 60	81 60	75.7 53.8		
CARROLL	MAX MIN	82 55	83 50	81 55	78 45	77 41	80 42	81 49	83 41	84 44	85 53	73 50	58 48	70 41	71 41	77 45	79 47	81 48	88 59	84 58	78 60	72 53	73 50	71 30	70 50	75 47	76 50	72 48	68 52	78 62	75 62	78.8 48.8		
CASCADE	MAX MIN	84 55	79 52	82 46	75 46	76 38	76 34	80 38	78 42	86 53	85 59	71 65	65 58	69 58	74 55	78 40	78 49	78 45	86 58	77 63	71 60	69 58	72 51	66 48	61 30	70 37	67 35	71 56	69 55	73 60	79 57	74.8 50.0		
CASTANA 4E	MAX MIN	86 57	81 55	79 59	75 49	73 48	74 45	79 42	81 48	72 48	71 50	58 41	69 43	68 47	70 48	76 50	77 52	85 62	82 54	75 60	70 52	73 49	71 51	68 38	74 44	72 46	73 48	65 49	65 52	80 51	78 51	74.1 49.6		
CEDAR RAPIDS NO 1	MAX MIN	84 58	80 54	82 52	75 49	76 43	77 40	80 43	79 49	85 56	82 57	72 60	62 55	63 55	73 54	76 46	77 51	78 49	86 58	79 65	76 50	69 58	74 53	68 50	63 39	75 39	66 56	73 53	65 59	80 62	83 62	75.1 51.9		
CENTERVILLE	MAX MIN	87 56	83 57	86 52	80 53	74 44	75 43	79 42	79 48	82 57	84 59	75 58	65 54	72 46	74 45	73 46	77 51	85 50	86 69	85 61	80 61	73 52	75 52	66 34	73 38	67 44	74 52	67 44	78 52	73 56	78 61	77.2 47.9		
CHARITON 3E	MAX MIN	87 50	82 55	86 51	75 45	74 40	75 38	79 40	79 42	83 53	83 52	76 55	63 53	74 48	75 40	75 48	79 45	87 57	85 60	80 57	83 57	69 52	70 49	62 34	72 33	67 35	74 52	67 35	73 52	71 55	78 55	72.3 50.7		
CHARLES CITY	MAX MIN	81 58	77 54	75 55	71 48	73 45	75 44	77 45	76 45	80 47	80 53	66 53	61 53	70 54	74 47	75 46	76 56	85 60	75 60	69 59	64 54	74 52	65 40	63 34	73 41	68 42	73 51	65 49	69 53	78 62	72.3 50.7			
CHEROKEE	MAX MIN	87 55	83 55	80 55	74 46	74 44	76 44	79 44	84 44	82 47	82 58	58 50	59 48	70 41	74 43	72 46	76 53	79 61	85 51	81 51	75 62	65 56	75 47	66 46	70 33	76 45	73 45	74 53	65 44	80 54	74.9 49.5			
CLARINDA	MAX MIN	86 53	83 54	85 52	78 58	73 48	76 41	79 41	80 44	84 52	83 59	70 52	67 43	74 41	77 46	73 44	80 58	79 48	89 59	88 62	80 53	77 54	76 50	78 48	70 37	72 33	76 39	75 54	67 53	80 60	78.1 49.8			
CLARION	MAX MIN	84 54	80 52	77 54	74 45	74 47	76 42	79 43	79 42	82 46	81 54	70 50	56 51	68 40	72 48	74 55	75 60	78 60	86 56	76 60	74 58	65 50	75 45	66 35	65 39	75 42	67 50	71 48	65 53	70 60	75 60	73.6 49.5		
CLINTON NO 1	MAX MIN	79 59	80 58	85 52	74 52	76 47	78 45	79 47	79 53	83 58	79 61	67 64	68 59	76 57	76 47	77 51	78 49	84 61	73 64	75 60	72 59	71 50	67 35	66 39	71 40	69 48	69 48	69 60	76 61	79 59	75.1 53.4			
COLUMBUS JUNCTION	MAX MIN	82 61	82 53	84 52	76 51	74 44	76 42	77 43	73 52	82 57	79 61	65 60	66 55	73 53	74 45	79 49	77 52	87 63	83 63	76 64	79 62	70 52	70 52	64 33	74 39	67 40	73 57	70 62	73 60	83 60	75.6 53.1			
CORNING 1W	MAX MIN	85 57	79 54	82 55	73 51	72 47	73 44	77 46	76 46								75 46	77 46	84 61	87 63	80 65	75 55	70 49	72 38	66 41	71 46	75 54	65 52	77 58	80 62	75.7 51.6			
COUNCIL BLUFFS 5NE	MAX MIN	87 50	84 54	84 51	80 44	74 47	75 38	78 38	82 41	79 60	78 57	71 50	61 41	69 41	74 42	73 43	75 50	85 58	86 48	83 60	73 53	71 49	74 41	70 33	73 40	72 34	71 40	68 53	80 48	77 50	76.0 47.5			
CRESCO	MAX MIN	81 58	75 53	75 54	74 45	76 46	76 42	78 46	79 44	83 52	79 52	75 58	64 54	62 45	70 44	75 55	74 51	81 56	79 57	69 54	62 5													

DAILY TEMPERATURES

Table 5-Continued

IOWA
SEPTEMBER 1950

Station	Day of month																															Average									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
DENISON 1S	MAX MIN	86 52	81 54	79 52	75 44	73 43	75 41	78 41	81 41	80 44	78 55	63 50	56 49	68 43	74 42	73 46	76 50	77 50	86 63	83 56	77 60	73 53	71 50	70 46	67 32	74 44	72 47	70 53	66 50	80 54	78 63	74.7 48.9									
DES MOINES WB APT	MAX MIN	87 59	82 56	84 57	75 53	74 49	77 46	80 49	80 49	84 57	85 61	66 56	60 54	71 50	76 43	75 50	78 56	77 53	87 63	89 66	83 63	73 58	75 54	71 48	68 38	75 41	73 43	78 55	68 54	77 58	82 63	77.0 53.4									
DES MOINES WB CITY	MAX MIN	89 59	83 57	85 58	77 52	77 49	78 46	81 48	83 50	86 55	85 61	68 57	61 54	73 51	75 46	77 50	79 56	78 53	88 64	89 66	84 63	75 58	76 54	73 48	69 39	76 42	72 42	78 55	69 54	77 58	82 62	78.1 53.6									
DUBUQUE L AND D 11	MAX MIN	78 60	76 54	75 53	71 50	73 47	73 44	74 48	77 51	80 57	76 60	72 62	65 55	64 57	66 56	73 47	74 53	84 49	79 59	68 61	67 57	73 56	66 52	59 51	69 41	67 45	65 41	75 54	72 54	76 60	72.0 52.9										
DUBUQUE WB CITY	MAX MIN	80 61	77 57	78 54	72 51	74 47	75 45	78 49	77 52	83 58	77 63	69 61	64 58	70 59	71 53	74 48	75 54	77 50	85 61	77 61	72 60	65 56	74 54	64 46	60 37	71 42	70 45	69 57	70 56	73 61	78 62	73.3 53.9									
ELKADER	MAX MIN	73 53	79 47	81 46	72 50	77 40	75 46	78 41	76 46	84 52	83 63	77 56	67 57	68 51	70 39	79 49	79 49	80 53	89 58	80 55	68 55	70 51	75 51	68 42	61 30	76 32	76 33	78 53	71 50	81 54	75.4 46.9										
EMMETSBURG	MAX MIN	82 58	79 57	74 59	73 47	73 42	75 42	77 44	80 48	80 53	80 53	66 50	57 50	66 46	71 45	72 44	74 56	77 50	85 60	75 54	77 59	65 58	75 48	69 48	65 35	74 44	71 40	71 50	64 46	69 49	75 61	73.0 49.6									
ESTHERVILLE	MAX MIN	89 56	84 52	83 56	79 44	78 45	81 40	83 46	87 45	86 45	84 50	76 50	60 49	70 46	77 42	75 44	72 52	79 50	87 56	82 50	72 55	59 50	80 42	70 45	65 32	78 46	73 41	68 50	64 42	66 50	78 60	76.2 47.8									
FAIRFIELD	MAX MIN	85 57	80 56	86 51	76 51	76 43	78 44	80 43	75 50	84 57	84 60	71 61	65 55	67 52	74 48	77 45	79 52	80 50	88 62	84 67	78 58	80 53	69 52	72 52	65 34	73 41	70 50	72 55	70 60	79 61	82 61	76.5 52.6									
FAYETTE	MAX MIN	80 55	76 48	76 50	70 41	71 38	72 36	77 37	74 41	80 46	78 51	70 64	64 56	64 56	60 50	74 39	75 52	76 50	86 57	80 62	67 57	64 58	73 52	66 45	60 28	71 34	72 34	68 53	70 50	78 53	72.1 48.4										
FOREST CITY	MAX MIN	84 58	82 56	74 54	76 48	74 42	76 41	79 41	78 43																			85 58	78 54	76 56	67 56	79 46	70 32	73 38	76 42	73 45	71 48	66 46	67 52	75 58	75.2 48.3
FORT DODGE	MAX MIN	84 59	80 50	77 56	74 45	74 42	77 43	80 42	81 46	81 53	80 55	72 51	59 47	67 44	74 46	74 46	76 56	76 49	87 62	77 57	77 62	64 60	77 52	65 49	68 33	75 42	71 44	72 53	68 50	73 53	76 60	74.5 50.1									
GLENWOOD 2E	MAX MIN	87 52	84 52	86 52	80 48	75 49	74 41	79 41	83 42	81 52	74 62	68 53	62 40	69 41	75 45	75 48	77 59	80 50	88 65	87 61	83 65	75 55	71 48	77 45	70 35	74 40	74 50	65 56	80 51	77 59	77 65	76.8 50.7									
GREENFIELD	MAX MIN	84 59	78 54	82 55	72 51	71 47	72 44	75 45	74 46	79 53	80 57	64 51	38 50	69 44	70 45	72 47	74 54	76 53	84 61	83 64	78 61	73 56	72 55	72 37	74 34	64 44	71 52	77 53	64 56	77 58	78 58	73.9 51.4									
GRINNELL	MAX MIN	87 58	81 57	85 53	76 49	76 44	77 45	81 45	79 45	85 53	85 58	72 50	60 51	62 41	75 49	77 52	79 50	79 59	88 64	84 61	78 57	72 52	74 47	71 35	62 37	76 40	67 50	77 43	74 51	80 58	76.5 51.0										
GRUNDY CENTER 4NE	MAX MIN	84 58	80 51	81 53	76 49	77 44	78 44	80 45	78 49	84 52	74 58	65 52	75 51	76 43	77 47	76 43	76 52	76 49	89 65	79 65	76 58	68 52	63 47	63 35	73 43	65 39	74 51	67 50	72 54	79 61	75.0 50.4										
GUTHRIE CENTER	MAX MIN		78 54	79 57	73 49	72 44	74 45	77 46	79 48	80 50	80 56	66 52	58 50	68 45	72 45	75 48	76 51	77 52	87 61	84 61	80 62	73 56	72 50	70 51	67 35	75 45	74 45	77 53	68 50	78 54	75 64	74.6 51.0									
GUTTENBERG L D 10	MAX MIN	77 57	76 54	75 52	74 50	74 45	75 44	77 48	81 50	78 55	73 59	67 55	68 55	70 53	76 45	75 53	78 50	86 60	83 60	71 57	70 56	75 50	68 49	61 34	72 38	69 41	70 53	67 51	72 54	79 60	73.7 51.6										
HAMPTON	MAX MIN	81 57	78 50	76 59	72 46	73 42	75 48	78 45	80 45	81 47	72 55	56 54	64 51	70 53	74 45	75 46	77 56	87 51	78 60	68 60	65 58	74 52	65 48	63 33	73 45	69 45	72 50	65 49	68 52	78 59	72.7 50.7										
HARLAN	MAX MIN	85 55	81 56	80 54	75 49	70 49	75 43	79 44	81 44	78 48	82 60	66 55	57 49	70 43	75 46	73 48	75 52	86 50	83 64	76 62	72 55	71 52	71 46	70 35	75 38	72 42	70 52	69 54	79 55	75 64	74.9 50.8										
HAWARDEN	MAX MIN	90 54	90 57	88 55	72 46	78 42	78 46	82 42	88 48	86 49	77 49	61 43	65 41	71 46	76 48	70 54	80 54	85 63	83 48	73 57	68 60	78 48	72 48	71 36	79 48	73 50	75 55	65 38	73 58	81 61	76.7 50.0										
IDA GROVE 4SSE	MAX MIN	89 51	84 52	84 57	75 46	76 47	80 47	84 47	85 46	82 52	72 49	58 45	74 40	78 41	72 45	76 50	79 53	89 54	82 50	84 52	80 55	71 46	76 46	74 36	71 43	79 45	77 49	75 49	78 54	80 63	77.7 48.6										
INDEPENDENCE 2W	MAX MIN		78 53	77 52	73 47	74 45	76 43	81 43	76 47	83 53	83 56	76 57	62 55	63 52	70 53	76 46	76 54	78 48	86 57	82 61	73 58	69 55	73 50	63 46	72 39	67 40	73 51	70 50	74 54	78 58	74.0 50.2										
INDIANOLA	MAX MIN	88 52	82 53	87 57	76 50	75 48	77 44	80 44	82 44	85 55	84 57	75 56	63 53	73 47	76 44	76 48	77 54	79 50	89 60	90 64	83 61	76 61	76 52	74 50	70 35	78 41	74 42	80 51	77 55	80 62	78.4 51.4										
INWOOD 2W	MAX MIN	89 54	86 58	83 57	77 46	77 46	81 47	88 47	83 47	79 50	60 52	65 47	72 49	75 43	70 44	74 48	78 54	87 64	82 52	66 55	68 58	79 47	71 48	70 38	77 46	71 46	75 50	62 36	66 50	80 59	75.6 49.6										
IOWA CITY	MAX MIN	82 57	79 58	82 52	73 63	75 46	77 42	78 42	76 50	84 58	81 60	73 61	62 54	65 55	73 54	76 46	77 51	88 59	80 67	74 62	73 58	74 53	68 51	65 38	75 39	67 56	74 57	67 61	77 61	81 61	75.1 53.3										
IOWA CITY AP CAA	MAX MIN	83 57	80 58	83 50	75 41	77 39	80 48	77 57	86 57	84 61	74 57	62 55	65 55	74 50	77 45	77 51	78 50	87 58	74 65	76 53	75 53	70 43	65 33	74 35	69 35	75 56	68 59	78 63	82 61	75.9 51.5											
IOWA FALLS 1N	MAX MIN	82 53	79 50	78 52	73 45	75 41	80 39	81 38	77 41	82 44	74 54	57 53	66 48	72 50	76 44	77 44	80 48	90 54	76 59	71 51	65 59	72 50	72 41	70 32	76 38	69 47	75 47	63 52	69 57	79 57	74.6 47.5										
JEFFERSON	MAX MIN	83 56	79 57	80 55	73 56	72 43	74 41	75 42	78 44	80 47	79 53	70 52	61 46	68 44	70 47	73 47	76 50	86 51	81 60	78 67	73 56	72 51	68 49	66 34	73 38	72 41	67 53	77 51	76 60	74.2 50.5											
KEOKUK L D 19	MAX MIN	73 63	81 62	75 61	83 58	72 52	73 51	73 54	75 58	71 59	79 62	77 64	73 58	71 53	68 53	69 55	74 57	75 60	84 64	84 66	78 68	84 55	69 44	70 45	63 46	69 50	66 45	74 59	74 62	78 61	74.3 56.9										
KEOKUK WBO	MAX MIN	82 63	75 64	85 66	73 57	73 53	74 51	77 53	71 58	80 63	79 64	69 55	68 51	72 51	75 54	74 57	78 57	86 62	80 68	86 67	82 60	70 54	71 51	64 45	72 46	66 46	73 59	75 64	80 63	80 62	75.3 57.6										
KEOSAUQUA	MAX MIN	86 55	77 58	87 54	77 53	75 44	76 40	80 41	73 48	84 57	81 61	74 62	68 56	74 51	75 48	76 45	77 50	89 61	87 67	86 65	84 53	73 52	75 34	65 38	75 38	65 55	77 59	73 63	82 61	83 61	77.9 52.8										
KNOXVILLE 2W	MAX MIN	87 58	82 55	85 56	76 52	76 47	82 46	80 48	81 47	84 50	83 58	76 57	62 49	71 45	74 42	77 52	79 54	88 62	89 67	83 63	78 61	74 53	75 50	68 37	75 41	69 44	79 54	73 55	78												

DAILY TEMPERATURES

IOWA
SEPTEMBER 1950

Table 5-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
MAPLETON 5NW	MAX MIN	85 54	81 55	79 55	75 46	71 46	74 44	77 45	81 44	79 47	74 59	63 46	59 46	70 42	73 45	70 47	76 50	78 50	85 62	81 53	73 62	70 54	76 50	70 48	68 35	74 40	74 48	73 54	65 48	78 50	79 64	74.4 49.6		
MAQUOKETA 5E	MAX MIN	82 56	77 54	85 50	74 46	75 42	75 41	79 43	79 49	83 52	80 57	73 62	67 56	68 56	77 54	75 46	77 51	75 47	84 55	76 62	73 58	70 56	72 48	67 46	62 32	71 35	68 40	68 54	70 55	74 61	78 59	74.5 50.8		
MARSHALLTOWN	MAX MIN		88 51	82 49	87 47	76 41	76 38	79 40	81 44	78 51	85 60	85 51	66 51	59 52	66 43	73 43	78 53	79 47	90 62	77 62	82 63	68 61	68 53	76 50	65 33	63 39	76 37	66 49	71 49	65 53	68 53	73.5 49.1		
MASON CITY 3N	MAX MIN	82 57	79 52	77 56	73 41	74 40	78 40	80 42	79 41	82 41	83 51	70 51	57 51	63 52	72 42	75 42	75 56	78 54	85 61	77 51	68 56	68 58	76 50	65 44	63 29	76 43	66 40	71 48	68 46	78 51	70 61	73.5 48.2		
MASON CITY AP CAA	MAX MIN	82 56	78 52	75 51	73 41	74 41	76 43	78 41	78 41	83 41	82 51	66 51	55 51	62 46	71 42	73 42	76 56	77 52	86 57	77 56	67 55	67 49	75 50	64 35	64 31	79 44	68 38	69 48	62 47	76 52	78 60	72.6 47.3		
MILFORD 4NW	MAX MIN	85 53	81 53	77 55	76 48	75 45	78 41	80 44	85 44	83 46	83 56	67 50	59 48	69 41	74 41	73 46	73 54	80 53	85 59	80 47	67 60	63 53	79 43	65 44	67 36	77 43	72 43	75 50	64 42	68 50	76 60	74.5 48.3		
MILLERTON	MAX MIN	85 49	81 56	84 53	76 50	74 47	76 45	80 45	79 50	83 55	83 57	75 55	63 53	71 46	75 45	74 47	78 53	79 57	86 68	90 68	84 61	76 60	71 53	73 51	68 38	73 38	71 42	79 53	72 52	79 56	83 62	77.4 52.2		
MISSOURI VALLEY	MAX MIN	89 55	85 55	86 56	80 48	77 49	78 48	80 49	84 45	84 48	75 60	67 52	63 40	72 42	76 47	77 50	78 56	81 56	87 66	88 51	78 63	72 53	75 51	77 46	75 35	77 48	75 51	71 55	66 50	82 55	81 65	77.9 51.5		
MONMOUTH 4SW	MAX MIN															76 39	74 46	77 42	81 52	72 58	73 53	70 52	72 45	67 44	61 28	72 32	69 30	71 50	67 46	73 54	79 54			
MOUNT AVE 2N	MAX MIN	84 54	75 55								81 56	67 51	58 51	71 44	73 47	72 46	78 56	85 49	87 59	79 66	75 62	70 58	73 52	66 49	72 36	72 38	77 49	69 52	75 60	75 65	74.2 52.5			
MOUNT PLEASANT	MAX MIN	83 57	77 57	88 52	80 52	75 46	78 44	78 47	73 52	83 58	82 61	72 62	66 55	67 50	78 46	79 44	79 50	80 53	88 60	84 67	79 63	83 61	71 52	71 51	67 34	75 37	65 40	76 55	72 58	80 61	83 59	77.1 52.8		
MUSCATINE NO 1	MAX MIN	86 57	82 56	86 51	78 51	78 48	80 43	82 46	77 50	88 55	83 61	78 62	63 56	66 56	76 53	77 47	80 50	81 52	87 61	82 66	77 62	78 57	74 51	73 51	65 35	74 39	66 40	74 56	73 60	82 63	82 60	77.4 53.2		
NEW HAMPTON	MAX MIN	79 59	76 53	76 54	73 45	73 44	75 43	78 43	77 46	82 50	80 55	67 55	63 55	61 55	72 47	76 45	73 55	76 52	85 55	75 59	66 57	64 58	75 52	64 46	60 32	72 38	67 41	72 49	66 48	68 52	78 61	72.3 50.1		
NEWTON	MAX MIN	89 57	83 55			78 47	79 59	83 46	78 50	86 56	85 60	71 59	63 53	71 52	77 44	77 53	80 55	79 54	89 66	87 66	78 63	74 61	77 57	72 51	70 39	78 42	69 44	77 53	72 51	82 59	82 62	77.9 53.9		
NORTHWOOD	MAX MIN	82 57	78 53	76 54	70 43	70 40	76 42	78 43	80 41	84 44	84 51	74 50	54 49	63 51	72 42	73 42	74 54	75 51	84 55	78 53	69 54	69 57	76 48	69 42	64 31	75 41	70 39	71 46	70 46	67 50	79 59	73.5 47.6		
NORWICH 2E SCS FARM	MAX MIN	86 57	81 54	85 55	77 50	74 47	75 44	79 45	80 44	78 54	80 67	69 51	70 43	76 44	73 48	76 58	79 52	87 61	89 62	78 64	89 56	76 50	63 50	74 39	69 38	72 45	72 55	72 52	65 52	79 55	75 62	75.7 51.7		
OAKLAND 2E	MAX MIN	87 52	82 55	84 51	76 48	74 44	75 41	77 40	81 42	80 46	66 61	59 51	70 44	74 40	75 42	76 45	78 54	87 48	86 61	79 61	86 62	74 54	71 48	75 42	68 34	73 34	72 46	65 55	80 51	75 63	75.8 48.9			
OELWEIN 2SE	MAX MIN															64 55	71 51	74 42														67 51	72 50	78 61
ONAWA	MAX MIN	90 53	85 56	83 53	80 47	78 47	78 45	81 47	85 43	84 50	78 55	62 50	62 38	71 40	78 45	72 48	79 48	84 47	89 65	85 52	77 62	71 53	76 52	75 46	73 35	79 42	78 48	77 55	67 49	81 55	83 63	78.0 49.6		
OSAGE	MAX MIN	79 60	76 53	74 55	71 47	72 43	75 44	77 44	76 44	79 44	79 51	60 55	62 53	70 52	73 44	71 45	75 56	85 53	75 57	68 57	65 56	76 58	64 52	62 46	72 32	68 40	71 48	66 46	67 52	77 61	71.8 49.5			
OSCEOLA	MAX MIN	87 58	83 54	86 58	76 51	76 46	76 45	80 48	79 50	85 56	83 56	75 53	62 52	73 47	76 46	75 50	79 54	78 61	86 65	90 61	82 65	75 58	73 52	74 52	67 37	74 39	72 44	76 52	73 42	79 57	79 60	77.5 51.9		
OSKALOOSA	MAX MIN	88 54	84 56	86 51	77 52	77 44	79 41	81 42	82 49	87 57	87 59	67 54	64 52	70 43	75 45	77 50	79 52	81 61	87 68	90 64	80 61	75 54	73 49	74 32	68 38	76 41	68 54	80 54	70 60	80 61	83 61	78.2 51.9		
OTTUMWA AP CAA	MAX MIN	87 58	81 57	87 55	75 52	75 47	76 45	79 48	75 51	83 57	82 59	68 54	65 53	70 53	74 47	75 50	76 52	77 61	86 68	85 63	79 58	76 54	71 46	73 39	66 43	74 46	63 55	78 56	60 62	82 61	82 61	76.1 53.6		
PERRY 2SE	MAX MIN	86 53	82 48	82 49	75 47	75 39	76 36	78 39	77 40	82 45	82 54	71 53	59 51	71 45	75 37	75 44	77 49	77 60	89 61	87 61	78 60	74 55	75 45	70 27	72 35	76 36	73 51	68 49	77 53	78 61	76.4 47.3			
POCAHONTAS	MAX MIN	83 55	80 60	76 56	74 41	74 46	76 46	79 42	83 41	82 46	80 51	68 51	60 50	69 44	75 41	74 42	78 56	87 49	82 60	80 54	76 60	73 58	74 50	67 46	74 33	72 44	76 46	72 50	76 48	73 57	79 61	49.5		
PRINGHAR	MAX MIN	86 59	84 55	77 57	75 49	82 47	78 48	79 49	85 51	80 50	65 57	56 48	68 39	75 48	70 50	73 55	78 53	83 61	78 53	73 60	72 57	75 50	70 51	68 38	76 44	71 47	71 52	66 43	71 49	77 62	74.7 51.0			
RED OAK	MAX MIN	86 50	83 52	84 51	72 47	74 47	74 37	78 39	81 41	80 49	66 60	60 52	70 44	75 39	74 43	76 46	79 58	85 48	88 64	79 60	88 64	75 56	70 44	75 35	69 36	72 43	71 57	74 53	65 57	79 64	74 64	75.6 49.5		
ROCK RAPIDS	MAX MIN	87 56	84 57	78 58	76 44	77 45	77 43	80 43	85 43	82 49	81 50	61 48	63 50	68 41	75 45	72 48	74 57	79 55	85 64	79 49	69 58	65 58	78 47	66 48	68 35	77 43	72 48	73 55	65 36	69 53	78 58	74.8 49.5		
ROCKWELL CITY	MAX MIN	86 57	84 51	79 55	76 47	77 42	78 40	81 40	84 44	83 48	69 52	62 50	70 42	75 44	77 45	78 50	80 49	87 57	80 55	79 61	70 60	77 51	69 49	70 33	77 43	76 38	73 48	67 48	77 53	76 59	76.7 48.8			
SAC CITY	MAX MIN	86 60	87 55	78 58	80 48	80 45	82 44	85 45	86 47	85 48	85 55	67 53	57 50	70 44	78 45	79 50	78 52	81 61	88 56	82 63	76 59	67 52	78 50	69 36	73 46	80 46	78 46	73 51	69 55	76 61	75 61	77.6 51.3		
SANBORN	MAX MIN	85 56	83 55	77 57	74 47	76 47	76 47	79 48	82 51	80 48	64 55	56 49	67 48	73 40	71 47	74 49	76 54	81 53	76 61	68 51	63 58	74 46	69 48	65 34	74 44	70 47	70 52	62 42	70 50	77 62	73.1 50.1			
SARATOGA 2E	MAX MIN	77 56	74 49	73 46	69 39	72 37	73 38	76 38	74 38	78 43	77 53	69 57	60 54	61 54	68 44	72 40	72 55	74 51	82 54	74 56	69 53	64 57	72 50	61 42	58 29	70 35	68 37	72 48	65 44	66 52	77 60	70.6 47.0		
SHELDON	MAX MIN	85 55	81 54	78 57	76 47	74 44	75 43	78 42	83 47	81 50	64 54	58 48	67 41	73 45	71 48	73 55	76 53	82 60	78 59	68 57	63 46	75 48	67 35	67 43	75 44	71 52	71 44	82 52	71 38	77 62	49.2			
SHENANDOAH	MAX MIN	88 53	84 54	88 54	78																													

DAILY TEMPERATURES

Table 5-Continued

IOWA
SEPTEMBER 1950

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
SPENCER 1N	MAX	85	82	78	74	75	77	80	84	81	83	56	58	68	74	71	75	78	84	78	70	63	77	85	67	75	72	73	60	71	78	73.7 47.2
	MIN	55	52	50	41	40	39	44	40	43	52	50	50	40	38	42	52	49	59	51	60	54	47	38	31	46	47	52	43	49	61	
STATE CENTER	MAX	83	80	78	74	73	75	80	78	80	80	69	59	68	68	76	76	77	87	79	83	70	72	65	65	74	70	76	70	72	80	74.6 53.3
	MIN	61	59	60	51	49	46	49	52	51	59	56	53	53	49	51	56	55	63	63	63	59	53	53	34	40	42	50	52	57	60	
STORM LAKE 2E	MAX	84	81	77	75	74	76	78	83	80	81	69	57	69	74	72	74	77	84	79	74	68	75	66	66	73	71	72	66	75	76	74.2 49.9
	MIN	58	52	58	47	43	47	48	46	47	55	50	48	42	44	48	53	49	60	52	62	57	48	47	36	49	45	49	46	53	57	
TINGLEY	MAX	85	81	86	76	75	76	80	80	83	82	67	58	71	75	74	75	78	85	87	81	74	72	75	67	73	72	78	69	75	78	76.3 51.2
	MIN	55	55	52	51	45	45	45	47	35	53	51	52	42	45	49	55	50	60	64	61	58	52	48	36	40	44	53	52	59	63	
TIPTON	MAX	82	78	82	75	75	74	77	76	83	85	74	68	67	73	74	74	78	84	77	76	74	73	69	58	71	66	72	71	77	81	74.8 52.0
	MIN	58	56	53	48	44	41	44	47	54	60	62	56	54	54	48	50	48	59	66	60	58	48	48	33	38	43	54	56	62	59	
TOLEDO	MAX	84	80	82	74	71	78	81	77	84	83	74	60	64	71	76	77	79	89	80	78	71	76	73	66	73	68	78	72	76	81	75.9 51.0
	MIN	57	53	53	49	44	43	42	46	52	54	57	52	53	47	44	53	50	62	63	62	59	53	50	33	39	41	52	49	56	61	
TRIPOLI	MAX	81	79	77	73	75	77	80	77	82	81	77	61	63	72	75	74	77	87	81	71	66	77	85	63	73	68	73	69	71	80	74.2 50.9
	MIN	58	52	54	46	43	43	43	46	51	57	57	54	55	49	45	56	52	57	60	59	59	52	47	32	40	42	52	51	54	62	
VINTON	MAX	80	81	89	79	75	78	79	80	85	85	72	61	68	72	75	76	78	88	79	75	71	73	66	66	75	67	76	71	77	79	78.9 49.9
	MIN	56	53	41	46	40	36	38	43	53	50	58	54	54	52	44	57	49	59	62	61	60	53	49	31	38	36	54	52	58	61	
WASHINGTON	MAX	85	81	86	76	77	78	81	77	85	83	73	66	67	76	78	79	80	89	86	76	82	72	71	66	74	64	76	71	80	82	77.2 52.9
	MIN	59	56	53	51	45	43	46	52	57	60	62	54	52	50	46	52	51	62	68	63	61	52	50	35	38	39	55	57	59	60	
WATERLOO AP 5NW	MAX	83	79	79	73	75	77	83	77	84	83	68	60	64	73	77	77	80	90	77	74	60	75	65	74	75	80	76	66	74	80	75.3 50.5
	MIN	41	53	51	46	43	39	42	42	49	49	55	55	55	51	52	55	53	59	63	54	60	54	49	34	39	49	54	52	56	61	
WAUKEE	MAX	88	83	85	80	77	78	81	83	86	85	80	61	73	75	77	70	78	88	89	83	78	76	72	69	76	72	78	70	76	82	78.3 53.3
	MIN	59	57	58	52	49	46	47	49	55	61	57	54	50	46	50	55	53	62	66	63	60	55	53	35	40	40	55	53	58	62	
WAUKON	MAX	76	72	75	70	73	77	78	74	77	75	68	67	66	70	75	73	76	83	77	65	64	75	63	57	71	71	70	68	67	77	71.7 49.2
	MIN	59	52	51	44	44	42	44	49	52	55	58	52	51	47		51	51	54	54	53	54	49	44	32	41	39	50	47	50	58	
WEBSTER CITY	MAX	86	82	80	76	76	79	82	80	85	85	72	58	70	75	76	77	78	90	80	76	68	79	69	70	79	70	72	68	72	77	76.2 48.3
	MIN	53	50	50	46	41	38	39	41	41	51	55	51	50	40	45	55	48	59	59	62	59	52	46	32	36	40	50	49	54	58	
WILLIAMSBURG	MAX	82	77	82	72	74	76	77	80	82	81	72	61	64	73	74	74	77	87	79	74	73	74	68	64	74	64	75	69	77	82	74.6 53.2
	MIN	59	55	56	50	46	45	46	59	59	58	59	52	54	52	45	54	50	62	67	63	58	52	50	36	38	41	55	54	62	60	
WINTERSET	MAX	86	82	85	76	75	77	79	81	84	85	75	69	75	76	77	79	79	87	88	83	78	77	76	74	76	74	78	70	76	80	78.8 51.5
	MIN	54	57	57	52	47	43	46	47	52	57	52	53	44	44	50	54	53	62	63	62	58	51	50	30	40	43	54	52	55	63	
WOODWARD 7N	MAX	76	80	81	75	75	75	78	78	82	81	76	61	70	73	74	77	75	89	83	78	73	74	69	68	74	71	76	66	75	79	75.4 52.3
	MIN	59	54	56	50	48	44	44	49	53	60	55	52	47	43	49	54	52	62	64	64	60	53	52	38	41	43	54	51	54	63	

EVAPORATION AND WIND

Table 6

Station		Day of month																														Total or ave
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Ames 3 SW	EVAP	.31	.25	.27	.26	.25	.24	.23	.19	.24	.18	.15	.08	.13	.14	.18	.18	.19	.26	.19	.13	.08	.14	.20	.16	.19	.16	.08	.12	.01	.10	5.29 1218
	WIND	36	29	29	33	21	23	12	15	24	7	30	15	24	9	27	17	32	143	50	41	67	61	48	43	59	42	91	33	67	90	
Cherokee	EVAP	.24	.20	.20	.27	.14	.22	.28	.02	.22	.10	.10	.07	.11	.14	.08	.07	.19	.15	.16	.16	.06	.16	.14	.18	.15	.10	.08	.13	.01	.09	4.22 954
	WIND	10	5	19	7	5	42	19	22	12	7	93	21	21	20	13	8	30	97	11	24	34	55	27	20	62	26	108	41	10	85	
Iowa City	EVAP	.21	.22	.23	.21	.19	.16	.16	.12	.18	.13	.07	.05	.07	.15	.13	.21	.13	.17	.08	.06	.15	.11	.17	.12	.12	.10	.10	.08	.07	.14	4.09 1176
	WIND	51	45	50	48	20	16	3	27	33	21	24	52	71	35	12	12	29	61	25	20	62	77	49	18	22	28	94	34	70	67	
Norwich 2 E SCS Exp Fm	EVAP	.19	.33	.06	.22	.20	.16	.20	.16	.14	.11	.15	.11	.15	.16	.19	.04	.11	.31	.40	.08	.10	.12	.16	.17	.14	.15	.13	*	*	.36	4.80 1360
	WIND	20	4	35	11	10	7	20	15	10	10	74	51	30	18	58	17	18	84	68	64	74	78	47	22	28	57	117	27	136	150	

See reference notes following Station Index.

STATION INDEX

IOWA
SEPTEMBER 1950

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Afton	0064	Union	9 41 02	94 12 1200	GP	GP			CLOSED -----	3-23-50	Horse 4 mi. SSW	5742	Johnson	10 41 41	91 28					L. J. Fuhrmeister	3 4
Akron	0088	Plymouth	1 42 49	96 33 1153	GP	GP			Orlan C. Moore	3	Mount Airy 2 mi. N	5769	Ringgold	9 40 44	94 14	1214				H. L. Cornellison	2 3 4 5
Albia	0112	Monroe	6 41 02	92 46 948	GP	GP			Arthur L. Fraed	2 3 5	Mount Pleasant	5796	Henry	21 40 57	91 32	730				A. M. Peterson	2 3 4 5
Algona	0133	Kossuth	6 43 04	94 14 1200	GP	GP			Harry B. Wolfe	2 3 5 7	Muscatine No. 1	5823	Woodbury	11 42 29	96 04					Joseph H. Bahrer	3 4
Allerton	0149	Wayne	9 40 42	92 47 1060	GP	GP			CLOSED -----	6-27-50	Muscatine No. 2	5837	Muscatine	14 41 26	91 03	660				F. J. Hauerbach	2 3 4 5
Allison	0157	Butler	4 42 48	92 47 1060	GP	GP			D. Tellinghuisen	2 3 5	Muscatine No. 2	5842	Muscatine	14 41 25	91 03	548				Robert B. Hagy	3
Alta	0173	Buena Vista	20 42 40	95 18 1513	GP	GP			F. Edna Allen	2 3 5	Muscatine 6 mi. N	5847	Muscatine	14 41 30	91 03	900				CLOSED -----	2-23-50
Alton	0181	Sioux	7 42 59	96 01 1303	GP	GP			W. S. Slagle	2 3 5	Nashua 2 mi. NW	5873	Floyd	4 42 59	92 34					William A. Cory	3
Ama 3 mi. SW	0203	Story	21 42 00	93 39 1004	GP	GP			Charles N. Brown	2 3 4 5 6 7	New Hampton	5952	Chickasaw	27 43 04	92 19	1156				Loddy Hrdlicka	2 3 5
Amana 1 mi. NW	0213	Jones	27 42 07	91 18 873	GP	GP			State Reformatory	2 3 5	Newton	5992	Jasper	21 41 42	93 04	950				Al A. Scheel	2 3 5
Atlantic 1 mi. E	0364	Cass	16 41 24	94 59 1110	GP	GP			Roy L. Fancolly	2 3 5	North English	6076	Iowa	4 41 29	92 05	780				Earnest E. Andrews	3 4
Atlantic AP CAA	0369	Cass	16 41 24	94 52 1152	MID	MID			Airways Com. Sta.	2 3 4 5 7	Northwood	6103	Forth	4 43 27	93 13	1222				Charles A. Walker	2 3 5
Audubon 2 mi. S	0385	Audubon	16 41 42	94 57 1297	GP	GP			Ralph E. Kibby	2 3 5	Norwich SCS Exp. Pw. 2E	6151	Page	22 40 45	95 13	1132				Soil Cons. Service	2 3 4 5 6 7
Augusta	0389	Des Moines	21 40 46	91 17 522	GP	GP			Glen Wood	2 3 5	Oakland 2 mi. E	6151	Pottawattamie	41 19	95 23	1150				Ward D. Reineke	2 3 5
Bancroft	0463	Kossuth	6 43 18	94 13 1200	GP	GP			Gay D. Hart	2 3 5	Oasis	6186	Johnson	10 41 43	91 24					Ed. Kadera	3 4
Bartlett 3 mi. E	0493	Fremont	26 40 53	95 44	GP	GP			N. L. Kilpatrick	3	Oelwein 2 mi. SE	6200	Fayette	27 42 39	91 54					Radio Station KOEL	2 3 5
Beaver	0549	Boone	6 42 02	94 08	GP	GP			Archie E. Sparks	3 4	Oeava	6243	Monona	15 42 02	96 06	1050				W. J. Oliver	2 3 5
Bedford 1 mi. N	0578	Taylor	29 40 41	94 44 1215	GP	GP			H. J. Chambers	2 3 5	Oesaga	6305	Mitchell	4 43 17	92 48	1170				L. J. Lamprecht	2 3 5
Belle Plaine	0600	Hendon	10 41 54	92 17 855	GP	GP			Walter C. Rabe	2 3 5	Oskaloosa	6316	Clarke	6 41 02	93 46	1136				Ray A. Kerns	2 3 5 7
Bellevue Lock & Dam 12	0608	Jackson	14 42 16	90 25 603	GP	GP			U. S. Engineers	2 3 4 5	Ottumwa AP CAA 5 mi. N	6389	Wapello	6 41 06	92 27	842				Airways Com. Sta.	2 3 4 5 7
Blockton 2 mi. S	0745	Taylor	19 40 36	94 29 1081	GP	GP			Glenn A. Cobb	3	Ottumwa	6391	Wapello	6 41 00	92 24	620				Winfrey Kinear	3 4 5
Bloomfield 2 mi. N	0753	Davis	8 40 47	92 26 825	GP	GP			Mrs. Leo Foster	2 3 5 6	Pella	6527	Warren	6 41 24	92 55	875				Avillar K. Warrips	2 3 5
Boone	0807	Boone	6 42 04	93 53 1229	GP	GP			E. G. Kolb	2 3 5	Perry 2 mi. SE	6566	Dallas	30 41 51	94 06	975				Eugene H. Hartie	2 3 5
Britt	0923	Bancroft	10 43 04	93 49 1234	GP	GP			Rev. B. A. Rust	2 3 5	Pocahontas	6719	Pocahontas	6 42 44	94 40	1228				Thomas A. McMahon	2 3 5
Burlington WB Airport	1063	Des Moines	14 40 47	91 05 895	MID	MID			U.S. Weather Bureau	2 3 4 5 7	Pringhar	6800	O'Brien	11 43 05	93 38	1517				H. A. Ballard	2 3 5
Carroll	1233	Carroll	20 42 04	94 52 1280	GP	GP			Ben H. Schenkelberg	2 3 5	Red Oak	6940	Montgomery	16 41 01	95 14	1077				Clarence M. Totty	2 3 5
Cascade	1257	Dubuque	12 42 18	91 00 880	GP	GP			C. J. Reiers	2 3 4 5 7	Red Oak 1 mi. NW	6941	Montgomery	16 41 01	95 14					Mrs. E. M. Conrad	3
Castana 4 mi. E	1277	Monona	11 42 04	95 49	GP	GP			Bob Zimmerman	2 3 5 7	Reussen	6975	Plymouth	7 42 49	95 55					Municipal P & L Pl.	3 4
Cedar Falls	1300	Black Hawk	4 42 33	92 27 875	GP	GP			E. J. Cable	3	Ringsted	7058	Emmet	6 43 18	94 30					Marvin A. Trees	3 4
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39 813	GP	GP			John T. Wurster	2 3 5 7	Riverton	7085	Fremont	16 40 41	95 35	920				William Stubbs	3
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40	GP	GP			C. W. Simon	3	Rock Rapids	7247	Lyon	1 43 26	96 10	1341				George Raveling	2 3 5 7
Centerville	1354	Appanoose	5 40 43	92 53 1013	GP	GP			Earl McIntire	2 3 4 5	Rockwell City	7161	Calhoun	20 42 24	94 37	1223				F. C. Deitelapacher	2 3 4 5
Chariton 3 mi. E	1394	Lucas	3 41 00	93 15 940	GP	GP			Ellis Shaw	2 3 5	Sac City	7312	Sac	20 42 26	94 59	1274				W. Floyd Weary	2 3 5
Charles City	1402	Floyd	4 43 04	92 40 1013	MID	MID			U.S. Weather Bureau	2 3 4 5 6 7	Saint Ansgar 2 mi. S	7326	Mitchell	4 43 21	92 55					Irvin L. Halverson	3 4
Cherokee	1442	Cherokee	11 42 45	95 33 1258	GP	GP			J. Earl Wirth	2 3 4 5 6 7	Saint Charles	7340	Madison	6 41 16	93 47					Rose E. Wise	3 4
Clearance	1528	Cedar	4 41 33	91 03	GP	GP			Ronald W. Harness	2 3 5	Saraboga 2 E	7386	O'Brien	7 43 11	95 39	1552				Miss Susan O. Dow	2 3 5 7
Clairinda	1533	Page	17 40 44	95 01 1094	GP	GP			Walter L. Weakland	2 3 5	Sheffield	7410	Howard	32 43 22	92 22					Don A. Fairchild	2 3 5 7
Clarton	1541	Wright	2 42 44	93 44 1170	GP	GP			George Reeder	2 3 5 7	Sheldon	7572	Franklin	4 43 54	93 13					Richard J. Galvin	3 4
Clinton No. 1	1635	Clinton	14 41 50	90 11 589	GP	GP			Samuel W. Williams	2 3 5 7	Shellon	7594	O'Brien	7 43 10	95 31	1418				Ross E. Forward	2 3 5
Clinton No. 2	1640	Clinton	14 41 50	90 11	GP	GP			David M. Swift	3	Shell Rock	7602	Butler	4 42 43	92 35					Elmer J. Apfel	3 4
Columbus Junction	1731	Louisa	10 41 17	91 22 595	GP	GP			Alice Best	2 3 5	Shennandoah	7613	Page	16 40 46	95 23	974				Earl May Seed Co.	2 3 5 7
Coon Rapids	1793	Carroll	20 41 51	94 39	GP	GP			Charles W. Smith	3 4	Sibley	7664	Osceola	1 43 24	95 43	1494				H. B. Steward	2 3 5
Corning 1 mi. W	1833	Adams	17 41 00	94 45 1300	GP	GP			Earl Gibson	2 3 5	Sidney	7669	Fremont	10 40 45	95 38	1050				James B. Shearer	2 3 5
Council Bluffs 6 mi. NE	1886	Pottawattamie	15 41 20	95 49	GP	GP			Mrs. H. O. Crase	3 4	Sigourney	7678	Keokuk	21 41 20	92 12	1456				Grace L. Sanderson	2 3 5
Council Bluffs 5 mi. NE	1889	Pottawattamie	15 41 19	95 49	GP	GP			Perry C. Crandall	2 3 5 7	Sioux Center	7700	Sioux	1 43 05	96 24					Richard J. Kroon	3 4
Cresco	1934	Howard	19 41 02	92 07 1265	GP	GP			Guy D. Humphrey	2 3 5	Sioux City 8 mi. N	7703	Plymouth	15 42 32	96 23	1093				Leo Vondrak	3
Creston Airport 3 mi. NE	1982	Union	19 41 02	92 07 1265	GP	GP			Midwest Airlines	2 3 5	Sioux City WB Airport	7708	Woodbury	15 42 32	96 23					U.S. Weather Bureau	2 3 4 5 7
Cumberland 5 mi. NW	2026	Woodbury	11 42 28	95 40 1350	GP	GP			Carl E. Pollock	3	Sioux City 4 mi. N	7713	Woodbury	15 42 32	96 23					Dan McKelvey	3
Dakota	2037	Humboldt	6 42 44	94 12 1133	GP	GP			Walter G. Pfeiffer	2 3 4 5	Sioux Rapids	7726	Buena Vista	11 42 53	95 08	1275				W. A. Simonsen	2 3 5
Davenport WB City	2069	Scott	14 41 31	90 34 579	MID	MID			U.S. Weather Bureau	2 3 5 7	Spencer 1 mi. N	7744	Clay	11 43 19	95 09	1331				John T. Wade	3 4
Decorah	2110	Winnebago	24 43 18	91 48 859	GP	GP			Walter Bates	2 3 5 7	Spillville	7855	Winnebago	14 43 12	91 57					Radio Station KICD	2 3 4 5 7
Delaware 2 mi. S	2112	Winnebago	24 43 17	91 47 880	GP	GP			Mora A. Carlson	2 3 5 7	State Center	7925	Marshall	10 42 01	93 10	1068				Louis J. Benda	3 4
Delaware 2 mi. W	2136	Delaware	12 42 28	91 23 1083	GP	GP			Clair E. Paris	2 3 5	Strawberry Point	7979	Buena Vista	20 42 38	95 11	1425				Otha A. Sweet	2 3 5
Denison 1 mi. S	2171	Crawford	4 42 00	95 22	GP	GP			E. M. Rugg	2 3 5 7	Tabor 6 mi. NW	8009	Clayton	14 42 41	91 31					Radio Station KAYL	3 4
Derby	3195	Lucas	5 40 56	93 27	GP	GP			Lloyd A. Kirk	2 3 4 5 7	Tingley	8131	Miller	15 40 57	95 43					W. H. Zwanziger	3 4
Des Moines WB Airport	2203	Polk	6 41 32	93 39 954	MID	MID			U.S. Weather Bureau	2 3 4 5 7	Tipton	8256	Ringgold	19 40 51	94 12	1275				James A. Verploegh	2 3 5
Dexter	2208	Polk	6 41 35	93 37 800	MID	MID			U.S. Weather Bureau	2 3 4 5	Tipton	8266	Cedar	4 41 46	91 08	819				Edward S. Dean	2 3 5
Donnellson 4 N	2240	Dallas	6 41 30	94 14	GP	GP			Joseph H. Harlan	3 4	Tipton	8270	Kossuth	6 43 17	94 00					John	

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and C&A stations. For these stations snow on ground values are at 1830 CST.

- No record in Tables 3, 4, 6, 7, and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record. Degree Day data, if carried for this station, have been adjusted to represent the value for the full month.
- R Daily values and monthly total from recording gage. All other data in Table 3 are from non-recording gages.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual, \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 804 Fidelity Building, Kansas City 6, Missouri.

W.B.O. Kansas City, Mo. -- 11-9-50 -- 1110

U. S. DEPARTMENT OF COMMERCE
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In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

OCTOBER 1950
Volume LXI No. 10



KANSAS CITY: 1950

IOWA - OCTOBER, 1950

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

October 1950 was an exceptionally mild month as the state-wide temperatures averaged 57.7° or 5.2° above normal. On comparison it was the 4th warmest October during the past 78 years. Precipitation was deficient except in the extreme southwest. Monthly averages ranged from 3.38 inches in the southwest district to .24 inch in the southeast. For the State, rainfall averaged 1.26 inches or 1.03 inches below normal. After the first week, no rain of consequence was reported from any portion of the State. From an agricultural standpoint, the predominance of warm and dry weather was almost ideal for reducing the moisture content of the Iowa corn crop.

The rains on the 1st and 2nd were the heaviest for the entire month. Nevertheless, they did not cover the entire State. The western third to western half received from 1/2 to over 4 inches, while the east central and southeast generally received less than 1/10 inch. In the four-county area--Mills, Montgomery, Fremont and Page Counties--four inch falls were measured within 24 hour periods. A cold wave spread across Iowa in the wake of the rains. With chilly northwest winds ushering in the cold wave, temperatures fell to a low of 25° at Britt on the morning of the 3rd. Light frosts were reported as far south as Lamoni. More general freezes or killing frosts occurred the following morning so that, with the exception of local favored spots or the lowlands along the Mississippi River, the growing season was effectively ended. Agricultural authorities reported that the killing frosts would particularly affect the corn that was immature and late. The next and last period of precipitation was on the 6th-8th. These rains were not so general nor so heavy as those of the first period. In the area bounded by Mason City, Fort Dodge, Ames and Guttenberg, moisture amounts from 1/2 to 1 inch were received. The extreme southwest also received over 1/2 inch falls. Elsewhere, amounts were very irregular and generally less than 1/4 inch.

After these rains, the remainder of the month was characterized by warm, dry and balmy weather. The regular yearly October tests for corn moisture were conducted on October 10th by the Weather Division of the Iowa Department of Agriculture. From this survey, it was revealed that the 1950 Iowa corn crop averaged 36.0% in moisture content, making it the second highest of record--exceeded only in October 1945 when the corn tested 40%. The moisture content was almost double that of the October tests in 1949 when it tested 19.6%. By areas, the driest corn was in the southeast where it averaged 32.7% and the wettest in the north central where the moisture was 39.4%. With these high moisture contents, the mild and dry weather was more than welcome to lower the moisture content. The warmest spells during the last three weeks were the periods 13th-19th and 26th-31st. The mercury reached the 90° mark at a few points during both of these periods. On the 16th, a wind squall with unusual temperature compression effects hit central and south central Iowa. At 11:15 A.M. in Des Moines, the temperature jumped 14 degrees within a period of five minutes. The upsurge from 73° to 87° broke the previous high record temperature for that date for the Des Moines station. This peak reading of 87° lasted only a very short time, as following the wind squall, the temperature receded back into the low 70's.

The last two days of the month was another period of record high temperatures. The Weather Bureau in Keokuk reported a record-breaking 92° reading on the 30th. For the month, the State high was 94° at Iowa City on the 18th; the low 19° at Saratoga on the 25th.

By the end of the month, a little of the Iowa corn was being picked. The dry weather had lessened the soft corn problem, and general harvesting was expected within a week to ten days. Many portions of the State were in need of rain. Fall seedings and pastures particularly needed moisture before the ground became frozen.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
OCTOBER 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Traces	01-09	10-49	50-99	100-199	200 and over				Total
Burlington WB Airport	S	16	9.3	35	NW	11	75	86	50	59	1	3	1	0	0	0	5	79	4.1	See Table 2
Charles City WB City	-	-	6.4	19	SE	6	-	-	-	-	2	2	3	1	0	0	8	69	3.5	
Davenport WB City	-	-	-	-	-	-	-	-	-	-	1	0	0	0	0	0	1	-	-	
Des Moines WB Airport	S	20	10.0	36	SW	31	71	80	47	52	4	0	4	0	0	0	8	75	3.5	
Dubuque WB City	-	-	5.2	17	SE	6	-	-	-	-	7	1	1	0	0	0	9	79	4.5	
Sioux City WB Airport	SE	13	10.0	40	NW	7	79	84	49	56	0	2	1	1	0	0	4	82	3.3	

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days 01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days 01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days 01 or more
1873	46.0	76	15	2.64			1903	52.2	90	16	1.95	0.0	5	1933	50.1	84	17	1.36	T	5
1874	51.2	84	25	1.52			1904	53.1	96	16	1.67	T	6	1934	56.6	92	18	1.52	T	4
1875	47.8	77	22	1.36			1905	49.2	95	16	3.40	1.6	8	1935	50.9	89	12	2.76	T	8
1876	47.0	78	18	1.16			1906	50.5	87	7	1.96	0.1	6	1936	50.9	88	10	1.69	T	6
1877	49.6	93	28	4.45			1907	50.4	85	10	1.50	0.0	5	1937	50.3	94	12	2.03	1.5	8
1878	48.9	85	10	2.73			1908	51.1	89	17	3.38	2.6	8	1938	59.4	97	20	0.88	0.2	4
1879	58.3	90	11	2.19			1909	49.7	97	10	2.22	T	6	1939	53.4	95	14	1.48	T	6
1880	47.6	83	13	1.90			1910	55.2	93	10	0.77	0.1	4	1940	57.8	90	22	2.32	0.0	7
1881	52.1	86	26	6.42			1911	48.7	87	14	3.34	0.6	10	1941	54.5	84	15	6.11	0.6	14
1882	54.4	86	23	3.97			1912	52.2	92	16	2.98	T	6	1942	53.1	90	10	1.53	T	5
1883	47.2	88	20	3.37			1913	49.2	89	2	3.03	1.2	9	1943	51.6	87	15	1.66	T	5
1884	54.2	86	17	4.20			1914	55.9	88	14	3.23	T	9	1944	53.8	84	18	1.08	0.0	4
1885	46.7	80	20	2.62			1915	54.4	86	19	1.31	T	5	1945	51.8	89	15	0.33	0.0	3
1886	55.0	88	18	2.51			1916	50.9	92	6	2.00	2.0	8	1946	55.7	89	20	3.39	T	8
1887	46.4	86	3	1.46			1917	42.9	85	0	1.41	2.2	6	1947	61.4	95	26	3.76	0.0	9
1888	47.7	84	22	1.16			1918	55.1	93	21	3.64	0.8	7	1948	51.5	80	16	1.89	T	4
1889	47.5	94	12	0.58			1919	50.7	89	8	3.02	T	10	1949	55.5	92	10	1.93	T	6
1890	49.2	84	15	3.44			1920	57.7	90	11	2.13	T	6	1950	57.7	94	19	1.26	T	3
1891	50.0	92	19	2.77		6	1921	54.6	90	21	1.96	T	6	PERIOD	52.0			2.33	0.4	
1892	54.5	96	14	1.55	0.0	4	1922	56.1	96	14	1.81	T	5							
1893	52.4	94	10	1.28	0.0	4	1923	48.5	81	10	1.22	1.7	6							
1894	51.7	90	20	2.67	0.2	8	1924	58.1	89	21	0.87	0.0	4							
1895	46.0	88	4	0.47	T	2	1925	40.2	78	15	2.91	4.9	10							
1896	47.8	88	12	3.13	T	5	1926	51.2	91	14	1.53	T	7							
1897	56.8	97	12	1.14	0.0	4	1927	55.5	91	24	3.25	T	7							
1898	47.5	88	17	3.56	3.6	8	1928	54.2	93	17	3.66	0.1	8							
1899	56.7	95	17	1.73	0.0	5	1929	51.8	84	23	3.10	0.7	9							
1900	59.3	90	21	3.91	0.0	7	1930	50.7	95	9	2.08	0.4	7							
1901	54.2	88	20	1.98	T	6	1931	56.8	92	28	3.01	T	10							
1902	53.5	83	20	2.54	T	5	1932	49.6	90	19	1.79	0.3	7							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

Table 2

IOWA
OCTOBER 1950

Station	Temperature									Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																			
Alta	56.6	5.1	87	30	27	4	272	0	3	1.44	-.48	1.22	2	0	0		3	1	1
Alton	58.5 M	7.9	89	30	26	4+	198	0	3	1.75	-.20	1.63	2	0	0		2	1	1
Cherokee	55.8	4.6	87	30	24	25	293	0	4	1.67	-.07	.85	2	0	0		3	2	0
Emmetsburg	55.1	8.4	18+	24	25	311	0	3	1.18		1.02	2	0	0		3	1	1	
Estherville	55.7	6.3	85	18+	24	25	294	0	3	.87	-.98	.75	2	0	0		3	1	0
Hawarden	55.4	4.1	85	18	25	25	301	0	3	1.16	-.34	.78	2	0	0		4	2	0
Inwood 2 W	54.3	4.2	87	30	25	4	338	0	3	1.71	-.14	1.28	2	0	0		4	2	1
Lake Park	53.6	4.3	87	30	23	25	357	0	6	.80	-.90	.80	2	0	0		1	1	0
Le Mars	58.0	6.4	87	30	29	4	231	0	3	1.46	-.19	1.12	2	0	0		3	2	1
Milford 4 NW	53.8	4.3	88	30	26	4	345	0	4	1.31	-.39	.81	2	0	0		4	2	0
Pocahontas	56.6	5.3	86	18	23	25	270	0	4	1.35	-.60	.95	2	0	0		3	2	0
Pringhar	55.5	4.7	86	30+	26	4	304	0	3	1.02	-.58	.80	2	0	0		4	1	0
Rock Rapids	53.5	4.2	89	30	23	25	358	0	4	1.16	-.47	.55	1	T	0		3	2	0
Sauborn	54.2	4.2	86	30	27	4	338	0	3	1.77	-.17	1.38	2	0	0		3	2	1
Sheldon	53.4	3.0	87	30	24	25	359	0	3	1.42	-.08	1.15	2	0	0		3	1	1
Sibley	52.3	3.3	84	30	21	4+	392	0	6	1.12	-.53	.96	2	T	0		3	1	0
Sioux Rapids	54.8	3.9	90	30	23	25	320	1	5	1.26	-.54	1.00	2	T	0		3	1	1
Spencer 1 N	53.5	2.6	88	30	21	25	355	0	5	.97	-.73	.49	2	0	0		3	2	0
Storm Lake 2 E	56.0	4.4	85	30	28	25	289	0	3	1.64	-.18	1.29	2	0	0		3	2	1
DIVISION	55.1	4.5								1.32	-.38			T					
NORTH CENTRAL DIVISION																			
Algona	56.4	5.3	85	18	26	25	285	0	3	1.12	-.95	.87	2	0	0		4	1	0
Allison	58.5	5.0	85	18	28	4+	283	0	4								3	1	0
Bancroft	58.5	6.7	88	30	25	25	279	0	4	1.05	-.95	.85	2	0	0		3	1	0
Britt	54.1 M	3.6	85	18	22	4	357	0	8	.68	-1.43	.45	6	0	0		3	1	0
Charles City	55.9	6.0	84	18	27	25	297	0	2	1.42	-.81	.65	6	0	0		6	2	0
Clarion	55.5	4.5	85	18	22	25	308	0	5	2.43	-.23	.80	7	0	0		5	3	0
Dakota City	56.8	5.1	85	18	25	25	273	0	3	1.67	-.43	.71	7	0	0		4	2	0
Forest City	54.7	4.5	86	18	22	25	328	0	5	1.54	-.72	1.03	2	0	0		4	2	1
Hampton	56.7	5.8	85	18	26	25	278	0	3	2.20	-.00	1.14	7	0	0		5	2	1
Mason City 3 N	55.5	6.1	85	18	23	25	313	0	3	1.72	-.38	.68	2	0	0		4	3	0
Mason City AP CAA	53.6	4.2	84	18	22	25	362	0	7	1.65	-.45	.52	6	0	0		5	3	0
Northwood			85	18				0		1.43	-.95	1.00	2	0	0		3	1	1
Osage	55.3	5.2	84	18	24	25	312	0	4	1.65	-.69	.90	7	0	0		3	2	0
DIVISION	55.6	5.1								1.55	-.63			0					
NORTHEAST DIVISION																			
Cascade	56.1		86	18	22	25	286	0	4	.26		.22	7	0	0		2	0	0
Cresco	55.4	6.8	86	19	24	25	309	0	4	1.30	-1.15	1.04	7	0	0		3	1	1
Decorah	55.5		85	18	24	25	307	0	4	.73		.49	7	0	0		3	1	0
Decorah 2 S	52.8 M	4.8	83	18	22	25	387	0	5	.85	-1.66	.56	7	0	0		5	1	0
Delaware 2 W	56.2	4.7	86	18	25	25	294	0	4	.32	-2.35	.15	7	0	0		4	0	0
Dubuque Lock & Dam	56.1	3.6	82	18	31	4	284	0	1	.31	-2.12	.19	8	0	0		3	0	0
Dubuque WB City	58.5	6.0	87	18	34	4	234	0	0	.27	-2.16	.20	7	0	0		2	0	0
Elkader	56.3 M	5.9	89	18	23	25	277	0	3	.13	-2.47	.07	8	0	0		2	0	0
Fayette	54.5	4.3	84	18	20	25	335	0	4	.93	-1.50	.62	7	0	0		5	1	0
Guttenberg Lock & Dam	57.7	4.9	88	18+	29	4	252	0	3	.39	-2.11	.14	3	0	0		5	0	0
Independence 2 W	56.8	5.1	85	18	26	25	269	0	4	.69	-1.76	.33	7	0	0		4	1	0
New Hampton	55.6	5.5	84	18	23	25	303	0	4	1.19	-1.19	.84	7	0	0		4	1	0
Oelwein 2 SE	56.1 M	4.8	85	17+	21	25	292	0		.70	-1.75	.40	7	0	0		3	1	0
Saratoga 2 E	53.7		81	18	19	25	361	0	5	1.03		.79	7	0	0		3	1	0
Tripoli	57.5		86	18	24	25	252	0	3	1.05		.57	7	0	0		4	1	0
Waterloo AP 5 NW	57.0	4.9	87	18	22	25	268	0	2	.81	-1.55	.49	7	0	0		3	1	0
Waukon	55.2	5.2	82	18	28	4+	312	0	4	.83	-1.77	.61	7	0	0		2	1	0
DIVISION	55.9	5.1								.69	-1.79			0					
WEST CENTRAL DIVISION																			
Audubon 2 S	57.0 M	3.6	83	30	28	4	260	0	3	2.89	.74	1.15	1	0	0		3	3	2
Carroll	57.7	5.6	86	18+	27	25	241	0	5	1.34	-.83			0	0		4	2	2
Castana 4 E	56.5 M				27	4	282	0	2	2.68		1.48	2	0	0		2	2	2
Denison 1 S	57.0	4.4	84	18	26	25	264	0	4	2.24	.22	1.68	2	0	0		4	2	1
Guthrie Center	58.6	5.2	84	18+	30	4	229	0	3	2.59	.23	1.32	2	0	0		3	3	1
Harlan	57.2	4.7	84	18	28	25	252	0	3	2.15	-.05	1.01	2	0	0		4	2	1
Ida Grove 4 SSE	57.3 M	5.3	85	18	29	3+	254	0	2	1.90	.00	1.38	2	0	0		2	2	1
Jefferson	57.7	5.5	85	17+	27	25	250	0	3	2.83	-.58	1.12	2	0	0		4	3	1
Lake City	57.1	4.6	85	18+	27	4	258	0	3	1.41	-.69	1.03	2	0	0		2	2	1
Logan	57.9	4.3	86	18	26	4	228	0	4	2.32	.28	1.50	2	0	0		3	2	1
Mapleton 5 NW	56.4	3.7	85	18	27	4+	276	0	3	2.16	.31	1.45	2	0	0		2	2	1
Missouri Valley	60.3	6.5	88	30	28	4	187	0	3	2.28	.38	1.44	2	0	0		5	2	1
Onawa	57.6	4.0	88	18	25	4	250	0	4	1.93	.02	1.40	2	0	0		3	2	1
Rockwell City	56.9	4.6	85	18+	26	25	260	0	3	1.63	-.45	.89	2	0	0		3	3	0
Sac City	58.5	6.8	86	18+	28	25	222	0	3	1.70	-.27	.95	2	0	0		4	2	0
Sioux City WB Airport	55.7	4.5	87	18	27	25	288	0	4	1.10	-.50	.59	2	0	0		4	2	0
DIVISION	57.5	4.8								2.07	.05			0					
CENTRAL DIVISION																			
Ames 3 SW	58.1	5.5	86	17+	26	25	236	0	3	1.39	-.99	.66	7	0	0		4	2	0
Ankeny 2 SW	59.3		86	17+	28	25	210	0	3	1.05		.65	2	0	0		2	2	0
Boone	59.4	5.5	87	17	30	4	205	0	2	2.16	-.26	.97	2	0	0		3	3	0
Des Moines WB Airport	60.0	6.3	87	16+	30	25	204	0											

CLIMATOLOGICAL DATA

IOWA
OCTOBER 1950

Table 2—Continued

Station	Temperature									Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
Newton	60.9	7.1	88	16+	30	4+	177	0	3	.60	-1.80	.40	7	0	0		4	1	0
Perry 2 SE	57.4	4.6	86	30	23	25	259	0	4	2.00	-.20	.85	2	0	0		3	3	0
State Center	59.0	6.0	85	17	31	4	216	0	1	1.26	-1.14	.81	7	0	0		2	2	0
Toledo	59.5	6.4	90	17+	25	25	210	2	4	.47	-1.98	.23	7	0	0		4	0	0
Waukee	59.6M	6.4			30	4+	208			1.13	-1.12	.63	2	0	0		3	2	0
Webster City	56.1	4.6	86	17+	22	25	285	0	5	2.27	.08	.96	1	0	0		4	3	0
Woodward 7 N	60.1	7.3	86	17+	29	4	184	0	1	1.15	-1.15	1.00	1	0	0		3	1	1
DIVISION	58.6	5.7								1.30	-1.06			T					
EAST CENTRAL DIVISION																			
Anamosa 1 NW	57.0	4.9	87	18	23	25	270	0	3	.18	-2.49	.07	7+	0	0		3	0	0
Belle Plaine	58.3	5.8	89	18	24	25	236	0	4	.46	-2.01	.34	7	0	0		3	1	0
Bellevue Lock & Dam	55.6M	4.4	86	18	25	25	286	0	3	.29	-2.31	.15	7	0	0		3	0	0
Cedar Rapids No. 1	58.3	5.5	88	18	26	25	244	0	3	.23	-2.04	.13	7	0	0		3	0	0
Clinton No. 1	58.6	5.0	88	17	30	25	221	0	3	.51	-2.12	.28	7	0	0		4	1	0
Davenport WB City	60.5	5.8	85	17+	33	4	185	0	0	.43	-1.93	.36	7	T	0		4	1	0
Iowa City	58.8	5.7	94	18	26	25	224	1	3	.25	-2.35	.14	7	0	0		3	0	0
Iowa City AP CAA	57.5	4.4	90	16	23	25	258	1	5	.32	-2.28	.28	7	0	0		3	1	0
Le Claire Lock & Dam	59.6		83	16+	34	4+	188	0	0	.45	-2.05	.22	8	0	0		5	0	0
Maquoketa 5 E	58.2	6.2	85	16+	28	25	235	0	3	.29	-2.41	.16	7	T	0		3	0	0
Monmouth 4 SW	55.9	3.7	86	16+	20	5	298	0	5	.37	-2.28	.25	7	0	0		2	1	0
Muscatine No. 1	59.8	6.0	87	17+	27	25	201	0	3	.36	-2.24	.28	7	0	0		3	1	0
Tipton	58.5	5.4	88	17	28	25	221	0	3	.38	-2.22	.27	7	0	0		2	1	0
Yinton	57.7M	5.1	88	18	22	25	489	0	3	.25	-2.15	.25	8	0	0		1	1	0
Williamsburg	57.8M	4.5	90	18	22	25	251	1	3	.26	-2.19	.14	7	0	0		2	0	0
DIVISION	58.1	5.3								.34	-2.20			T					
SOUTHWEST DIVISION																			
Atlantic 1 E	58.5	5.4	84	18+	26	25	221	0	3	3.04	.62	1.91	2	0	0		3	2	2
Atlantic AP CAA	55.6	2.5	83	31	25	4+	294	0	5	3.81	1.39	2.28	1	0	0		4	3	1
Bedford 1 N	59.9M	5.1	84	18+			182	0		.87	-1.83	.87	1	0	0		1	1	0
Clarinda	59.3M	4.8	85	18+	28	25	196	0	3	2.69	-.03			0	0		4		
Corning 1 W	58.0	4.2	83	17+	29	4	232	0	3	2.34	-.36	1.92	2	0	0		2	2	1
Council Bluffs 5 NE	57.6		85	18	27	4	241	0	5	3.09		1.38	1	0	0		4	3	2
Glenwood 2 E	58.9	4.4	85	18	27	4	212	0	3	3.41	1.25	1.45	2	0	0		4	3	2
Greenfield	58.0	4.3	82	18+	28	4	223	0	2	2.33	-.01	1.02	2	0	0		3	3	1
Norwich 2 E SCS	59.0	4.5	87	17	30	4	204	0	2	4.09	1.44	2.17	2	0	0		4	3	1
Oakland 2 E	57.3	3.3	83	18+	27	25	257	0	4	3.67	1.57	1.45	2	0	0		5	3	2
Red Oak	57.7	3.2	84	18+	27	25	243	0	3	5.44	2.89	2.32	2	0	0		4	3	3
Shenandoah	59.8	4.3	87	31	29	4	194	0	3	5.26	2.66	3.03	2	0	0		4	3	2
Sidney	61.0		88	16	30	4	167	0	2	3.91		1.92	2	0	0		3	3	2
DIVISION	58.5	4.3								3.38	.92			0					
SOUTH CENTRAL DIVISION																			
Albia	60.8	6.5	88	18	30	4+	182	0	3	.24	-2.05	.11	3+	0	0		3	0	0
Centerville	61.0	5.8	88	18	28	25	168	0	2	.14	-2.52	.05	3+	0	0		3	0	0
Chariton 3 E														0	0				
Indianola	61.1	6.5	89	18	29	4+	173	0	3	.57	-1.83	.29	7	0	0		3	1	0
Knoxville 2 W	61.4	6.7	88	16+	31	4	177	0	1	.32	-2.08	.21	7	0	0		3	0	0
Lamoni AP CAA 4 W	59.1		85	16+	30	4	208	0	3	.39		.17	7	0	0		3	0	0
Millerton														0	0				
Mount Ayr 2 N	59.6	4.9	85	17+	30	4	206	0	3	.79	-1.81	.45	2	0	0		2	2	0
Osceola	60.4	5.8	87	18	30	4	181	0	2	.81	-1.64	.58	7	0	0		4	1	0
Tingley	59.6	5.2	85	17+	28	4	198	0	2	.85	-1.80	.42	7	0	0		3	2	0
Winterset	60.9	6.3	87	18	29	4	170	0	3	1.00	-1.49	.62	2	0	0		3	2	0
DIVISION	60.4	6.0								.57	-1.97			0					
SOUTHEAST DIVISION																			
Bloomfield 2 N	59.7 M	4.5	87	18+	29	4+	190	0	4	.04	-2.47	.04	7	0	0		1	0	0
Burlington WB Airport	59.6	4.8	87	17+	32	4+	211	0	3	.36	-2.41	.30	7	0	0		4	1	0
Columbus Junction	60.0	5.7	90	16+	25	25	204	3	3	.31	-2.29	.23	7	0	0		2	0	0
Fairfield	59.9	6.5	88	18	29	25	203	0	2	.32	-2.18	.17	7	0	0		3	0	0
Keokuk Lock and Dam	59.9	3.5	85	31	36	4+		0	0	.37	-2.05	.23	7	0	0		4	0	0
Keokuk WB City	62.9	6.5	92	30	35	4	142	1	0	.37	-2.05	.19	8	0	0		4	0	0
Keosauqua	60.9	5.5	90	18	27	25	179	1	3	.28	-2.42	.17	7	0	0		3	0	0
Mount Pleasant	60.5	5.9	90	16+	26	25	187	2	3	.26	-2.17	.22	7	0	0		2	0	0
Oskaloosa	60.3	6.2	90	17+	23	25	195	2	4	.29	-2.11	.16	7	0	0		3	0	0
Ottumwa AP CAA	60.6	5.2	87	18	31	4	183	0	1	.07	-2.56	.04	7	0	0		3	0	0
Sigourney	60.5	6.3	89	17+	27	25	190	0	2	.07	-2.37	.05	3	0	0		2	0	0
Washington	60.0	5.9	89	17+	26	25	197	0	3	.17	-2.34	.13	7	0	0		2	0	0
DIVISION	60.4	5.8								.24	-2.30			0					
STATE	57.7	5.2								1.26	-1.03			T					

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3-Continued

IOWA
OCTOBER 1950

Station	Day of month																															Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Toledo	T	.03	.13				.23	.08									T																	.47
Tracy		.10	.08				.22	.05																										.45
Traser	R		.23				.36				.02																						.61	
Tripoli	T	.15					.57	.13								.20	T																1.05	
Van Meter		.37					.73	.06									.06										T						1.22	
Vinton								.25																									.25	
Wallin 2 WNW	R	3.20	.60			.75											.30																4.85	
Wapello			.02			.25		.07	T																								.34	
Washington			.04				.13																										.17	
Washington	R		.04				.15	.08																									.27	
Waterloo AP 5 NW			T	.24			.49	.08				T	T				T																.81	
Waukesa		.05	.63				.45										T																1.13	
Waukon							.61	.22									T										T						.83	
Webster City		.96	.70			T	.53	.08			T																						2.27	
Webster City	R	1.10	.48			.46	.10	.01																									2.15	
Wheatland	R						.38																										.38	
Williamsburg							.14	.12																										.26
Winterset		.06	.62				.32											T															1.00	
Woodbine 5 SE	R	* 2.28					.21																										2.49	
Woodward 7 N		1.00	.12														.03																	1.15

HOURLY PRECIPITATION

IOWA

OCTOBER 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
MORSE 1NE							.02	.02		.01	.01	.02					.03						.03	.14	
MORSE 4SSW							.04	.05	.01			.04	.09	.11	.06	.04								.03	.13
MOUNT AYR 2N							.10	.02	.02	.01															.34
MOUNT PLEASANT		.03																.01	.01	.01	.02	.03			.18
MOVILLE																									.08
NORTH ENGLISH																									.12
OASIS						.02	.06	.01	.01														.01	.01	.05
OTTUMWA AP CAA	6											.01	.02	.01											.04
REMSSEN																									.04
ROCKWELL CITY		.01	.01	.01	.01																	.05	.02	.01	.04
ST ANSGAR 2S																									.15
SAINT CHARLES		.01	.05	.07	.01	.01														.01	.06		.04	.03	.02
SHEFFIELD		.06																							.04
SHELBY 3SSE			.04																						.58
SHELL ROCK		.26	.17	.03	.04	.01															.01	.01	.01	.05	.12
SIoux CENTER																.03	.02	.04	.02	.01					.01
SIoux CITY WB APT																	.01								.05
SOLDIER																		.04	.01						
SPENCER 1N	6																		.05						
SPILLVILLE		.08	.25	.05	.05	.04				.01	.01														.54
STRAWBERRY POINT			.05	.17	.05	.02											.03						.02	.02	.01
TRAEr		.01	.11	.11	.05																		.02	.01	.02
WASHINGTON					.01	.10				.02	.02														.15
WEBSTER CITY		.01																				.03	.01	.01	.04
WHEATLAND										.10	.02	.01	.01	.02	.01							.14			.38
WOODBINE 5SE		.02	.01																		.18				.21
-8th-																									
AMES 3SW		.01																							.01
BURLINGTON WB APT	//									.01	.02					.01									.04
CENTERVILLE			.01	.02																					.03
CHARLES CITY		.01	.02																						.01
COON RAPIDS																									.03
DAVENPORT WB CITY																									.07
DERBY		.07																							.02
FOREST CITY		.01	.01																						.05
GRINNELL		.01	.01	.01	.01	.01																			
IOWA CITY AP CAA	6	.11	*	*	*	*			.01																.03
IOWA C RALSTON CRK1		.02	.01																						.01
IOWA C RALSTON CRK2		.01																							.02
IOWA C RALSTON CRK3		.01	.01																						.02
IOWA C RALSTON CRK4		.02																							.02
IOWA C RALSTON CRK5		.01	.01																						.03
KEOKUK WBO																									.03
KNOXVILLE 2W		.03																							.01
MARSHALLTOWN						.01																			
MASON CITY AP CAA	6	.11	*	*	*	*			.02																.12
MISSOURI VALLEY																									.07
MONONA		.01	.01	.01	.01	.03																			.15
MORSE														.01	.02	.01									.04
MORSE 1NE										.01	.02	.01													.04
MORSE 4SSW																									.31
MUSCATINE NO 1																									.14
NORTH ENGLISH																									.04
OASIS			.01	.01	.02																				.03
ST ANSGAR 2S		.03																							
SPENCER 1N	6	.06																							.05
SPILLVILLE		.03	.02																						.04
STRAWBERRY POINT		.01	.02	.01																					.08
WASHINGTON			.08																						.01
WEBSTER CITY		.01																							
-11th-																									
TRAEr											.02														.02
-15th-																									
CHARLES CITY										.01															.01
-16th-																									
ATLANTIC AP CAA	//															.07					.02	.03	.01	.12	.02
CARSON																									.07
EMERSON 2N									.08	.07		.04	.01												.25
HAMBURG																	.09	.01	.03	.07					.08
MINEOLA 3WSW																									.20
NORWICH 2E SCS FARM							.04																		.04
SPILLVILLE																									.03
STRAWBERRY POINT																									.02
TABOR 6NW																									.04
THURMAN 4S								.01	.01			.02	.01	.01	.01	.01									.04
WALLIN 2WNW																									.30
-26th-																									
BURLINGTON WB APT	//					.02				.01															.01
DAVENPORT WB CITY																									.02
-31st-																									
HARTLEY 3S																									

See reference notes following Station Index.

DAILY SOIL TEMPERATURES

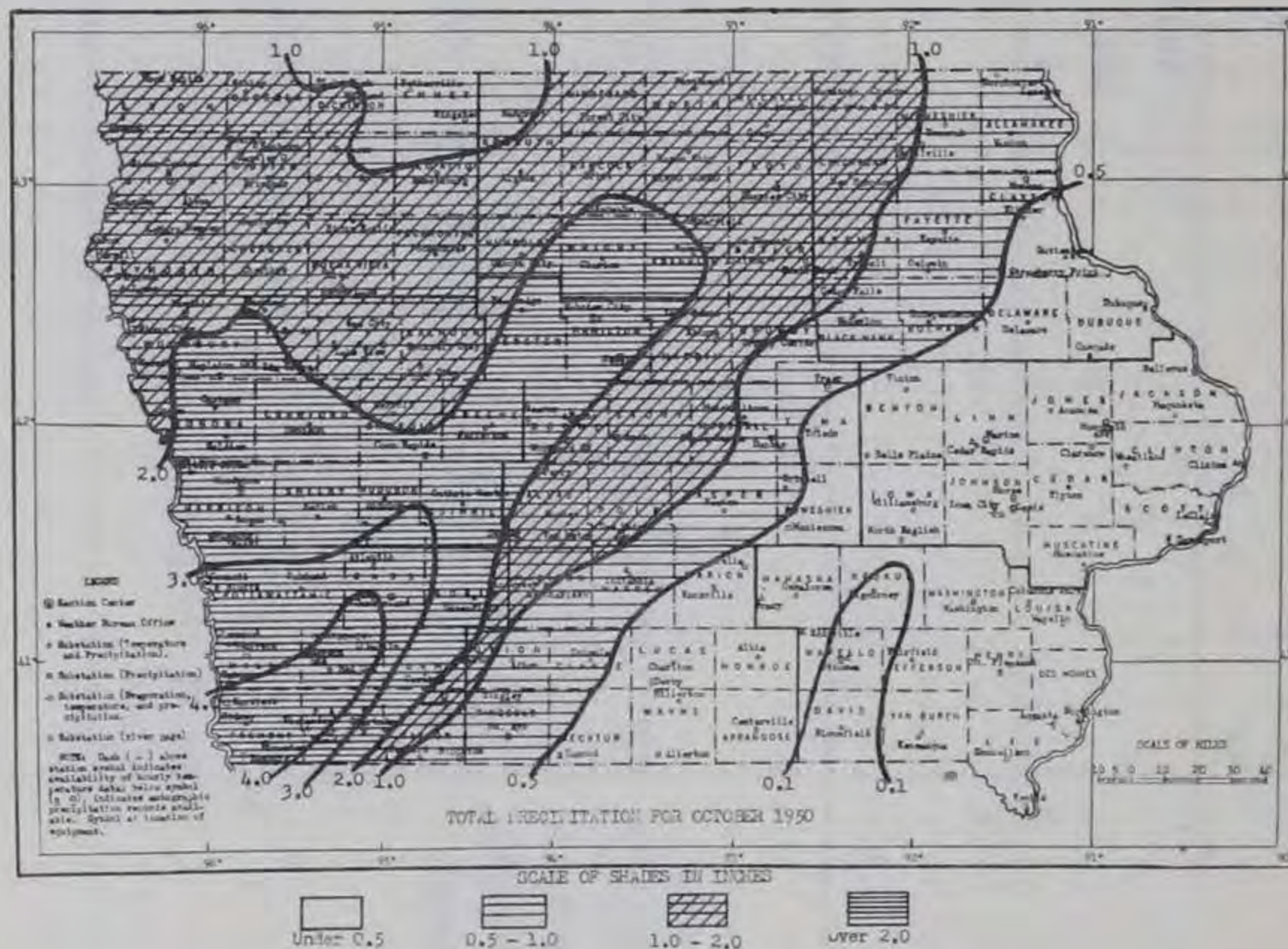
AMES, IOWA

IOWA
OCTOBER 1950

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7AM	62	65	40	36	38	49	55	48	41	47	46	44	47	53	48	59	54	55	56	46	45	47	46	39	33	46	46	49	48	47	57	48.1
	12M	76	61	51	49	50	62	59	55	56	59	59	62	60	64	63	66	67	69	65	58	60	53	52	51	49	58	59	59	60	62	66	59.4
	7PM	68	52	48	48	52	66	53	52	53	56	56	57	62	61	63	65	67	65	61	57	60	50	49	46	49	57	58	53	58	61	67	57.1
2 1/4 Inches	7AM	62	65	42	38	40	49	56	49	43	48	47	45	48	54	50	59	55	56	48	47	49	47	41	36	47	47	50	48	49	57	49.3	
	12M	75	61	55	56	50	66	62	58	60	62	63	63	67	64	65	69	70	67	61	62	53	52	54	52	58	61	61	62	64	68	61.4	
	7PM	68	54	49	50	52	66	55	53	55	57	57	58	62	62	63	65	68	66	62	58	61	51	49	48	50	57	58	54	59	61	66	57.9
4 Inches	7AM	63	66	48	44	44	51	58	52	48	50	50	49	51	56	53	60	58	59	59	53	51	52	50	46	42	49	51	52	50	52	58	52.4
	12M	68	64	53	50	48	57	60	55	54	57	57	57	57	62	59	62	63	64	64	58	57	53	51	51	48	53	56	56	54	57	61	57.0
	7PM	69	60	54	54	52	64	58	56	57	59	59	60	63	64	63	65	68	67	64	61	62	53	53	52	52	57	60	58	60	62	66	59.7
8 Inches	7AM	64	65	55	51	50	52	60	55	52	53	54	54	55	57	57	60	60	61	61	58	56	56	53	50	48	50	53	54	53	54	58	55.5
	12M	64	65	54	50	50	54	59	55	52	54	54	54	55	58	57	60	60	61	61	57	56	55	52	50	48	51	53	54	54	54	58	55.5
	7PM	66	63	56	54	52	59	59	57	56	58	58	59	60	61	60	62	64	65	64	60	59	55	54	53	52	55	57	57	57	59	62	58.5
20 Inches	7AM	62	62	61	59	58	57	58	58	58	57	58	58	58	58	58	59	59	60	60	60	60	59	59	58	56	55	55	56	56	56	57	58.1
	12M	62	62	62	60	58	58	59	59	58	58	58	58	58	58	59	59	60	60	61	61	60	59	58	57	56	55	56	56	57	57	57	58.6
	7PM	62	62	60	58	58	58	58	58	57	57	58	58	58	58	59	59	60	60	60	60	59	58	57	56	55	55	55	56	56	56	57	58.0
40 Inches	7PM	61	60	60	60	60	60	59	59	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58	57	57	57	57	56	56	56	57	58.2
72 Inches	7PM	60	60	59	59	59	60	59	59	59	59	59	59	59	59	59	59	59	59	58	58	58	58	58	58	58	58	58	58	57	57	57	58.4
4 Feet Above Ground	7AM	63	66	36	33	40	51	53	47	38	47	48	47	48	58	47	65	53	54	55	42	41	43	40	37	28	48	43	53	47	46	62	47.7
	12M	80	52	49	50	52	72	68	69	64	65	72	69	70	73	74	70	80	85	72	65	72	50	46	57	58	67	72	73	79	80	79	66.9
	7PM	68	45	43	43	54	73	52	51	53	55	57	56	62	62	67	68	72	64	59	56	61	46	45	40	51	59	60	51	60	62	70	56.9

COUNCIL BLUFFS, IOWA

1 Inch	12M	67	62	64	60	76	69	66	68	72	75	77	78	78	76	68	80	77	84	75	80	52	52	68	67	74	74	75	69	75	76	71.1
2 1/4 Inches	12M	68	62	62	58	71	66	63	65	66	69	71	72	73	69	68	74	75	75	70	73	54	52	60	59	68	67	67	65	68	71	66.7
4 Inches	12M	67	62	59	54	65	62	60	62	62	63	64	65	68	64	68	69	72	70	65	72	54	53	58	57	61	61	61	63	62	65	62.9
8 Inches	12M	67	64	54	54	57	59	56	58	57	58	59	59	61	61	64	62	67	65	60	65	56	53	52	52	55	55	56	59	56	60	58.7
20 Inches	12M	65	65	61	59	60	60	58	59	59	59	60	60	61	61	62	62	63	62	62	60	59	58	58	56	57	58	57	58	58	58	59.9
40 Inches	12M	64	64	64	63	63	62	62	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	60	60	60	59	59	61.3
72 Inches	12M	62	62	62	62	62	62	62	62	62	62	62	61	61	61	61	61	60	61	61	60	60	60	60	60	60	60	60	60	60	60	60.9



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
OCTOBER 1950

Table 5

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ALBIA	MAX MIN	82 62	72 43	58 32	55 30	59 35	80 52	71 53	58 45	72 39	78 49	76 47	73 45	82 47	80 53	77 45	86 62	87 63	88 56	79 56	73 38	81 45	62 42	56 43	63 39	65 30	72 19	81 48	76 51	83 45	87 60	87 65	74.2 47.4	
ALGONA	MAX MIN	71 64	67 44	46 31	54 28	55 35	75 48	70 48	55 43	65 33	67 47	71 43	66 44	69 45	73 49	75 45	84 63	83 48	85 61	73 50	69 35	75 45	55 38	45 36	60 37	60 26	66 45	77 40	72 50	78 48	84 49	80 55	68.5 44.3	
ALLISON	MAX MIN	82 63	64 46	51 32	54 28	55 32	75 45	68 45	65 45	70 38	68 45	70 45	68 42	72 46	71 41	74 46	80 57	84 51	85 58	69 47	71 35	78 37	65 46	52 38	56 36	60 28	60 40	74 42	73 43	80 46	84 50	83 48	69.7 43.3	
ALTA	MAX MIN	70 56	63 42	44 29	55 27	62 37	75 45	63 45	59 40	68 37	69 46	71 46	74 41	75 46	75 53	77 45	79 60	80 48	85 63	71 47	70 37	73 51	55 37	45 35	58 36	63 32	70 46	78 43	73 45	75 50	87 50	78 53	69.0 44.1	
ALTON	MAX MIN	78 43	67 43		60 26	65 38	73 46	71 42		69 35	68 45	71 43	74 47	78 46	78 48	80 47	75 61	80 47	86 63		74 40	75 40				66 26	75 40	80 44	75 49	75 50	89 44	85 45	74.3 42.7	
AMES 3SW	MAX MIN	81 62	67 45	53 34	55 30	56 32	79 48	73 52	60 45	67 37	70 44	73 42	73 42	77 44	76 55	77 45	79 60	86 51	86 53	73 54	71 39	79 40	61 39	52 40	60 34	63 26	70 44	80 42	75 48	81 45	86 45	85 59	71.7 44.4	
ANAMOSA 1NW	MAX MIN	80 62	75 49	55 33	54 29	58 29	74 50	69 54	61 45	70 40	75 36	72 43	68 41	68 47	73 41	85 51	86 57	87 51	78 56	68 40	76 38	62 40	53 41	60 43	61 23	58 40	74 42	75 41	79 33	82 41	85 48	85 54	70.7 43.3	
ANKENY 2SW	MAX MIN	78 63	57 51	55 33	56 29	58 31	80 49	76 53	65 45	79 36	70 45	75 41	79 42	80 46	77 54	85 46	86 63	86 59	80 56	72 39	80 43	52 39	54 39	61 35	63 28	73 46	80 45	75 45	81 44	85 48	85 64	72.9 45.7		
ATLANTIC 1E	MAX MIN	72 64	67 45	55 30	57 28	61 35	82 49	74 51	64 45	69 33	72 43	76 41	79 37	83 45	80 51	81 46	78 63	82 55	84 49	76 38	72 46	77 39	62 39	49 33	62 26	66 43	75 43	81 47	75 42	79 40	84 58	83 57	72.8 44.2	
ATLANTIC AP CAA	MAX MIN	68 63	66 36	55 28	54 25	61 30	80 48	70 46	63 38	67 33	70 38	74 38	77 33	81 42	77 45	79 44	81 54	82 49	82 53	73 42	71 35	78 40	48 37	49 39	60 29	64 25	73 49	79 42	73 40	78 34	82 40	83 58	70.8 40.4	
AUDUBON 2S	MAX MIN		45 40		58 30	55 28	58 34	72 42	67 41	64 39	72 34	69 43	72 45	76 45	80 54	77 46	78 61	80 54	82 58	72 49	70 38	76 49	56 35	49 36	59 34	63 31	73 44	79 42	74 47	76 49	81 50	83 56	70.7 43.3	
BANCROFT	MAX MIN	73 57	68 46	46 31	56 28	59 35	76 47	72 47	48 42	70 32	66 44	70 44	67 41	74 42	71 47	78 45	77 62	85 46	86 61	76 49	73 34	71 44	62 39	50 36	57 34	64 25	68 44	79 38	71 47	79 48	88 47	83 54	69.8 43.1	
BEDFORD 1N	MAX MIN	75 63	63 50	55 33	55 30	58 38	78 50	74 51	63 43	67 53	70 45	75 45	77 44	78 52	79 55	80 60	82 60	83 52	84 56	77 52	70 40	76 46	69 40	48 39	66 38	63 24	74 47	78 43	73 47	79 38	82 50	84 56	72.1 47.7	
BELLE PLAINE	MAX MIN	81 61	74 46	58 32	56 29	58 29	78 52	71 54	58 45	74 39	76 41	75 41	72 40	73 42	76 46	76 45	87 58	88 53	89 54	76 52	71 38	79 41	56 40	56 42	62 40	62 24	63 47	77 43	77 47	81 38	85 50	87 56	72.6 44.0	
BELLEVUE L AND D 12	MAX MIN	79 56	77 52	56 35	55 31	57 27	71 49	87 54	61 44	67 39	75 35	71 47	66 41	62 37	70 38	70 39	85 52	85 49	86 46	75 52	67 44	72 39	62 40	53 46	61 46	59 25	55 42	69 38	76 35	78 41	81 45	85 45	69.5 41.7	
BLOOMFIELD 2N	MAX MIN	81 60	73 52	57 35	54 29		78 52	69 56	63 43	69 42	78 39	74 43	73 44	81 41	81 41	78 43	86 54	86 53	87 55	80 46	73 39	63 48	58 50	66 40	60 32	71 29	78 51		81 50	86 53	87 52	73.8 45.6		
BOONE	MAX MIN	78 63	68 44	51 34	55 30	56 37	78 50	74 52	60 44	69 38	69 49	74 47	73 44	77 48	76 58	76 49	87 63	85 55	85 62	73 54	72 39	79 49	61 39	52 39	60 39	62 32	70 47	72 46	78 55	86 51	85 53	71.3 47.5		
BRITT	MAX MIN	74 40	67 25	46 22	55 29	55 29	70 45	70 45	57 38	67 28	68 40	71 40		71 32	73 38	75 40	81 57	83 49	85 58	73 47	70 31	77 47	59 36	45 35	58 32	60 23	64 42	77 35	71 47	78 48	84 53	80 58	68.8 39.4	
BURLINGTON WB APT	MAX MIN	83 62	76 44	59 35	56 32	62 32	77 54	63 54	59 44	69 42	76 40	76 48	73 41	75 41	78 53	74 46	86 58	87 52	87 55	81 47	69 38	76 41	52 44	64 38	61 32	63 47	71 57	78 47	77 41	86 58	82 58	72.8 46.3		
CARROLL	MAX MIN	74 63	67 43	52 32	58 28	61 32	72 45	68 47	62 42	70 31	70 44	74 43	74 40	84 43	78 56	84 43	78 60	82 47	86 60	74 49	73 35	72 48		53 35	62 35	65 27	75 42	72 39	78 48	86 50	82 49	71.9 43.5		
CASCADE	MAX MIN	80 62	74 47	57 34	57 31	57 27	74 47	67 59	60 49	71 41	75 35	72 46	62 40	67 43	72 40	73 43	85 55	81 51	86 49	77 55	68 37	76 39	61 42	53 42	61 22	60 35	55 42	74 34	76 32	78 43	81 47	84 47	70.1 42.1	
CASTANA 4E	MAX MIN		62 41	48 29	53 27	62 36	75 46	67 46	59 40	66 36	68 47	75 48	68 45	79 47	76 52	77 48	77 60	79 52	84 64	75 48	70 38	73 49	53 36	46 36	60 38	64 34	71 47	76 47	71 51	75 45	84 49	86 55	68.3 44.7	
CEDAR RAPIDS NO 1	MAX MIN	80 64	73 49	55 34	55 31	58 29	76 53	68 55	61 45	71 41	75 39	72 45	69 44	70 47	74 42	73 46	87 60	86 58	88 57	75 39	69 41	77 43	58 42	54 44	60 26	60 44	61 43	74 45	74 43	79 37	84 51	86 58	71.0 45.5	
CENTERVILLE	MAX MIN	80 57	75 54	57 34	56 29	59 33	79 53	75 54	64 45	77 39	79 45	78 43	75 42	83 48	82 55	79 46	86 60	87 60	88 54	80 54	72 41	81 39	68 42	55 43	65 39	63 28	74 51	83 48	79 50	82 41	86 59	86 61	75.3 46.7	
CHARITON 3E	MAX MIN															80 45	80 40	86 61	86 57	87 56	78 48	78 35	80 42	62 42	53 35	64 25	64 25	75 48	83 44	78 43	82 36	86 48	87 54	
CHARLES CITY	MAX MIN	77 64	68 41	50 33	52 30	54 34	73 46	68 48	62 44	69 38	68 44	71 47	67 43	68 49	72 45	80 56	82 52	84 57	69 44	66 38	76 44	48 41	52 38	56 34	57 27	58 44	73 42	72 45	80 44	81 49	82 54	67.9 43.8		
CHEROKEE	MAX MIN	70 49	62 43	43 27	55 26	63 36	76 44	65 45	58 40	68 31	69 39	72 41	75 35	78 48	75 47	78 45	79 61	80 46	84 62	71 45	71 36	72 50	45 39	58 35	65 35	71 24	78 46	71 45	76 51	87 48	78 53	69.1 42.5		
CLARINDA	MAX MIN	70 63		56 30		60 33	82 49	73 52		69 43	72 33	77 41	80 40	80 36	80 48	82 50	83 61	83 54	85 53	80 47	74 38	80 36	66 39	52 41	70 43	66 28	76 48	79 41	81 35	82 48	85 55	75.1 43.4		
CLARION	MAX MIN	77 63	67 45	45 31	54 27	54 32	76 46	72 48	57 43	67 32	67 45	70 40	67 38	70 45	72 46	73 44	78 60	83 51	85 59	69 33	69 47	56 37	46 33	57 22	64 44	67 38	70 48	78 43	78 48	83 48	84 44	68.5 42.5		
CLINTON NO 1	MAX MIN	80 59	77 53	62 36	59 32	59 31	71 51	64 55	60 47	70 44	74 40	73 49	71 43	65 42	72 44	85 56	88 51	87 51	87 45	69 39	69 45	78 43	69 43	57 46	65 30	62 40	61 49	79 45	79 45	83 39	84 49	84 55	71.8 45.4	
COLUMBUS JUNCTION	MAX MIN	84 64	75 50	57 36	55 32	63 30	78 53	71 55	60 45	79 38	75 44	72 44	75 44	72 47	76 44	80 62	90 55	90 58	90 52	79 42	71 35	81 37	71 44	58 41	65 25	63 46	76 49	79 46	81 36	88 59	89 62	74.3 45.7		
CORNING 1W	MAX MIN	71 63	67 43	54 32	55 29	58 37	79 49	69 50	62 42	66 33	70 45	74 44	75 41	79 46	77 44	79 49	81 60	83 58	83 57	73 40	72 37	76 38	66 40	50 37	61 32	65 48	74 43	77 47	74 47	81 48	83 52			

DAILY TEMPERATURES

IOWA
OCTOBER 1950

Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DENISON 1S	MAX MIN	71 65	67 44	49 30	54 29	61 38	76 49	66 46	60 43	66 32	68 45	72 44	73 37	79 47	81 47	77 45	78 63	79 49	84 60	72 47	70 38	75 49	58 36	48 36	59 36	62 26	72 48	75 39	69 49	75 50	83 51	80 56	69.6 44.3
DES MOINES WB APT	MAX MIN	81 64	70 40	57 35	58 31	58 34	80 51	71 47	63 44	69 36	73 46	76 44	75 44	83 51	79 56	79 47	87 63	86 58	87 60	76 50	73 40	80 46	54 39	55 41	60 36	64 30	75 51	79 45	75 51	80 48	85 53	86 60	73.4 46.5
DES MOINES WB CITY	MAX MIN	81 64	70 40	59 35	56 32	58 35	80 51	71 49	65 46	70 39	72 45	77 44	75 46	82 47	78 54	80 48	86 63	87 59	87 60	77 50	74 41	81 44	54 41	56 41	63 38	65 31	75 49	81 48	76 50	81 43	86 48	86 61	73.8 46.5
DUBUQUE L AND D 11	MAX MIN	77 62	74 50	53 38	49 31	55 35	70 54	75 54	59 45	66 44	70 50	66 45	63 43	60 43	66 45	75 45	81 57	78 54	82 57	73 56	63 43	68 44	57 45	49 40	57 45	55 34	52 41	64 46	69 42	75 41	75 50	79 50	66.3 45.9
DUBUQUE WB CITY	MAX MIN	80 64	74 43	55 38	55 34	59 35	73 53	67 50	61 47	70 45	75 41	67 52	64 47	70 46	71 46	86 57	86 58	87 60	76 53	66 45	75 46	58 45	51 43	60 44	60 35	55 41	72 47	75 45	79 42	82 55	84 58	69.8 47.2	
ELKADER	MAX MIN	76 45	77 34	58 28	55 26	58 26	72 49	72 49	67 43	74 35	76 34	72 57	68 40	70 39	72 39	73 41	85 56	85 48	89 51	77 52	68 39	77 37	55 42	53 41	61 42	64 23	72 39	75 46	87 36	82 35	85 44	71.5 41.1	
EMMETSBURG	MAX MIN	70 56	65 44	45 31	54 29	58 35	74 46	67 48	56 43	67 34	66 41	69 43	66 43	68 41	71 49	75 45	77 58	81 47	84 60	71 51	69 35	70 42	55 38	45 35	58 35	61 24	64 43	75 41	70 49	77 44	84 43	79 47	67.5 42.6
ESTHERVILLE	MAX MIN	70 54	65 45	45 29	56 26	60 38	73 42	72 45	62 42	67 34	68 43	72 42	69 40	70 41	73 50	74 42	80 52	85 44	76 62	69 46	70 33	67 44	46 38	57 34	62 37	68 24	73 45	69 50	79 48	85 46	82 54	69.0 42.4	
FAIRFIELD	MAX MIN	83 63	75 51	56 34	54 33	61 30	77 54	69 53	59 45	69 40	78 39	76 45	72 44	79 41	78 55	76 44	87 60	87 58	88 56	80 52	81 52	77 38	66 39	53 44	64 44	61 29	66 48	76 49	80 44	85 37	87 58	73.4 46.4	
FAYETTE	MAX MIN	77 64	71 48	52 40	52 28	55 30	72 50	68 50	59 44	67 35	68 36	69 44	65 40	66 45	68 38	71 40	80 57	82 48	84 58	71 44	64 32	72 43	49 41	51 40	57 46	56 20	69 36	72 39	78 37	78 34	81 45	67.0 41.9	
FOREST CITY	MAX MIN	74 63	68 42	45 29	55 26	53 34	73 45	72 45	66 42	67 31	68 45	70 42	68 39	70 42	73 42	82 49	82 50	86 62	68 43	68 32	76 43	54 37	45 36	57 35	59 22	60 45	76 36	70 47	78 43	83 46	80 55	67.8 41.6	
FORT DODGE	MAX MIN	74 64	67 46	48 33	56 29	55 37	77 48	74 50	58 44	67 35	67 47	70 42	69 42	72 44	73 53	76 43	82 49	84 59	84 51	68 36	69 48	76 38	59 37	48 38	58 37	60 25	69 47	79 47	74 48	85 44	83 57	69.4 44.6	
GLENWOOD 2E	MAX MIN	71 66	68 45	55 30	57 27	64 39	80 49	76 50	65 45	69 34	75 44	80 42	82 38	81 49	81 51	87 64	85 52	88 64	78 49	72 36	80 44	57 40	51 42	63 34	64 29	74 48	80 44	75 43	78 42	83 44	84 60	72.9 44.9	
GREENFIELD	MAX MIN	74 59	67 54	56 32	53 28	58 34	74 49	76 44	67 52	65 36	68 45	71 41	73 40	74 46	75 51	78 48	79 49	81 54	82 55	73 52	75 55	69 51	55 38	48 39	59 36	69 34	73 45	77 49	74 46	82 48	81 49	70.3 45.7	
GRINNELL	MAX MIN	81 60	72 41	56 29	55 25	58 30	78 49	71 52	60 42	70 38	73 43	74 40	72 47	77 44	77 49	76 45	87 53	87 55	88 50	76 38	71 40	78 38	63 40	55 38	62 38	63 25	65 40	77 47	76 42	83 48	85 58	86 43	72.6 43.2
GRUNDY CENTER 4NE	MAX MIN	78 62	70 45	53 32	54 30	55 32	76 49	69 50	62 45	69 38	70 45	70 45	69 42	70 45	73 42	72 43	79 59	83 50	86 57	72 51	67 36	76 43	58 42	51 40	58 38	59 24	60 41	74 42	73 47	80 42	83 49	84 54	69.5 43.9
GUTHRIE CENTER	MAX MIN	71 65	67 43	52 32	54 30	58 34	78 48	72 51	60 44	68 35	68 46	73 44	72 45	80 49	75 59	78 44	80 63	83 55	84 62	72 54	72 38	77 47	60 37	50 38	59 31	63 46	75 44	76 52	72 50	78 51	84 62	83 46	70.8 46.4
GUTTENBERG L D 10	MAX MIN	78 62	74 45	54 33	55 29	58 32	72 50	68 52	60 45	70 39	73 39	71 48	68 41	65 46	69 47	70 59	84 55	84 64	88 57	74 54	66 47	75 47	59 42	50 47	59 32	58 40	69 45	75 44	79 43	80 43	84 50	69.2 46.2	
HAMPTON	MAX MIN	79 64	68 46	51 31	52 29	53 35	75 46	72 49	65 37	67 45	67 49	70 40	68 43	69 43	72 41	73 42	79 60	85 61	85 74	73 35	68 49	76 40	65 38	61 26	61 41	75 38	78 43	80 45	83 48	83 59	89 53	69.4 43.9	
HARLAN	MAX MIN	71 65	66 46	53 33	56 29	61 35	77 48	72 50	61 45	63 34	63 43	72 42	78 38	81 44	77 50	78 38	80 61	84 53	84 57	73 50	71 38	77 44	60 39	47 31	61 28	63 47	72 39	81 43	72 43	76 43	83 47	81 52	70.8 43.6
HAWARDEN	MAX MIN	72 46	48 39	42 28	56 27	68 40	70 48	62 43	57 40	70 35	68 45	73 42	77 36	79 42	76 43	81 46	72 60	79 43	85 60	75 43	73 34	65 40	55 37	48 34	58 25	65 42	73 40	77 50	80 58	89 42	80 45	69.2 41.6	
IDA GROVE 4SSE	MAX MIN	70 55	64 43	48 29	57 29	64 37	77 46	69 47	65 43	70 38	73 47	76 45	78 41	83 49	81 52	79 46	80 62	81 50	85 61	76 46	73 37	74 50	57 36	44 36	64 36	65 33	80 46					70.6 43.9	
INDEPENDENCE 2W	MAX MIN	79 60	76 48	53 31	52 28	56 30	74 49	72 52	61 44	71 38	70 40	71 43	67 41	69 47	71 41	73 45	82 53	84 54	85 55	77 52	67 37	75 40	67 41	55 49	58 40	59 26	73 41	73 45	79 40	81 46	83 50	70.1 43.4	
INDIANOLA	MAX MIN	83 62	70 50	58 32	58 29	58 35	80 49	74 53	64 45	72 37	74 47	77 45	76 41	84 48	80 54	80 46	88 61	88 58	89 60	78 53	75 37	83 45	68 38	58 41	65 36	67 29	75 45	83 53	81 48	83 55	88 61	88 46	75.6 46.5
INWOOD 2W	MAX MIN	62 45	47 40	45 27	56 25	65 39	68 46	63 41	57 37	67 43	69 44	71 44	73 44	76 41	73 47	76 46	77 50	83 58	73 46	71 36	64 42	48 36	45 35	57 33	69 26	71 43	75 45	71 42	79 45	87 50	77 41	67.4 41.1	
IOWA CITY	MAX MIN	83 61	74 48	57 33	55 31	60 29	77 52	68 56	62 45	72 41	78 39	74 44	71 44	73 45	75 47	88 57	88 54	94 61	78 55	70 41	65 38	52 40	62 44	62 46	61 45	75 47	77 47	80 36	86 49	87 54	72.8 44.7		
IOWA CITY AP CAA	MAX MIN	84 62	74 43	57 32	55 30	61 25	79 54	68 50	60 46	74 39	78 36	74 42	71 42	74 42	78 45	90 58	89 49	89 46	79 50	72 40	78 34	65 37	53 44	62 30	62 23	61 47	75 42	76 36	80 33	85 46	88 52	73.1 41.9	
IOWA FALLS 1N	MAX MIN	80 60	68 46	51 30	58 26	54 32	76 45	71 49	59 42	70 35	69 45	71 40	67 37	72 44	76 42	77 41	85 58	86 48	70 56	70 35	76 43	58 36	49 35	58 24	60 41	62 36	76 50	72 37	80 44	85 56	84 41	69.8 41.9	
JEFFERSON	MAX MIN	74 64	67 46	51 33	53 30	58 36	78 50	74 51	59 45	66 35	67 43	72 42	70 42	75 47	73 57	76 54	85 62	84 64	81 53	72 37	78 46	63 38	49 39	59 32	62 27	72 47	75 40	71 46	78 43	85 45	82 56	70.2 45.2	
KEOKUK L D 19	MAX MIN	79 62	81 64	76 40	58 36	55 36	63 41	75 57	64 48	57 45	64 46	73 47	76 48	71 48	77 49	75 50	83 56	81 56	80 55	75 48	78 44	68 45	55 46	64 41	60 42	68 52	71 46	76 46	76 46	85 63	71.2 48.5		
KEOKUK WBO	MAX MIN	83 64	77 49	58 39	56 35	62 38	76 58	66 56	58 47	70 45	78 46	78 51	80 47	82 58	75 48	88 60	88 64	86 57	82 49	72 46	77 44	52 47	67 44	63 39	70 31	82 51	82 49	82 52	82 46	89 65	89 67	74.8 51.0	
KEOSAUQUA	MAX MIN	85 62	76 55	61 34	59 32	63 30	79 55	73 41	61 39	80 45	80 44	80 43	80 43	87 49	83 43	89 58	90 54	83 48	72 39	80 34	70 38	55 44	67 44	65 27	69 49	82 5							

DAILY TEMPERATURES

IOWA
OCTOBER 1950

Table 5--Continued

Station	Day of month																															Average			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
MAPLETON 5NW	MAX MIN	70 51	60 43	47 30	54 27	62 37	76 48	68 44	60 41	67 34	68 47	73 41	74 35	79 48	77 50	79 47	60 61	81 51	65 65	75 46	72 36	74 49	55 37	48 39	43 34	65 27	72 46	76 41	72 48	77 46	84 43	79 49	69.4 43.3		
MAQUOKETA 5E	MAX MIN	80 60	76 50	62 34	59 30	57 32	73 50	67 55	60 46	72 42	75 42	73 49	70 42	65 46	72 42	71 44	85 56	85 57	85 53	78 55	66 41	75 39	65 44	52 42	64 47	62 28	55 41	77 44	78 46	77 40	81 52	85 55	71.0 45.3		
MARSHALLTOWN	MAX MIN	82 62	69 65	54 33	54 30	57 32	79 51	79 52	68 44	71 37	70 40	73 40	70 42	74 39	78 37	76 40	88 61	88 51	85 60	69 54	69 36	77 41	50 41	47 41	58 38	58 23	59 44	77 42	70 44	78 44	83 37	86 47	73.1 44.0		
MASON CITY 3N	MAX MIN	80 64	69 42	50 30	53 28	54 35	73 50	70 47	61 44	69 34	68 45	70 43	68 42	68 41	71 39	72 42	80 60	83 49	85 63	69 46	69 33	77 42	50 40	47 37	58 36	58 23	59 41	76 36	69 45	78 41	84 43	82 55	68.5 42.5		
MASON CITY AP CAA	MAX MIN	78 63	67 39	47 29	53 26	53 31	73 41	66 46	59 37	67 32	66 41	69 41	66 39	67 40	69 43	72 43	79 50	82 48	84 61	67 41	67 31	76 41	46 39	45 37	56 28	59 22	59 42	76 36	69 40	78 48	82 43	80 5	67.0 40.1		
MILFORD 4NW	MAX MIN	69 44	58 39	42 27	55 26	62 35	70 43	68 44	54 41	66 33	67 42	70 41	67 37	69 46	72 49	75 45	70 56	79 45	84 56	69 44	70 35	64 43	50 35	43 33	57 32	61 27	67 44	76 41	70 45	77 45	88 46	79 46	66.7 40.8		
MILLERTON	MAX MIN	83 62	72 50	55 33	57 29	58 33	80 51																												
MISSOURI VALLEY	MAX MIN	71 53	64 45	58 31	58 28	66 42	80 50	73 47	67 42	72 38	73 45	78 49	80 43	85 52	83 51	82 49	82 65	83 53	87 63	79 48	74 35	82 54	55 37	53 41	66 34	67 30	76 48	80 44	77 50	79 52	88 54	83 62	74.2 46.3		
WONMOUTH 4SW	MAX MIN	81 56	75 43	57 28	56 25	59 20	74 44	67 49	60 41	71 38	76 29	72 40	69 37	66 42	73 40	72 42	86 55	85 56	86 47	79 52	67 39	75 34	70 40	53 41	61 45	61 26	58 38	72 44	77 39	78 33	82 45	84 54	71.0 40.7		
MOUNT AYR 2N	MAX MIN	78 62	68 51	56 32	56 30	58 35	79 49	73 52	65 44	67 35	73 46	75 42	79 40	81 47	79 51	84 61	85 57	85 58	80 51	73 40	78 39	60 39	51 39	64 41	64 37	76 31	83 49	78 48	80 47	84 47	85 59	73.5 45.6			
MOUNT PLEASANT	MAX MIN	85 61	75 52	60 33	58 31	61 30	78 53	70 54	61 44	73 41	79 39	77 44	74 42	79 40	80 51	78 46	90 59	89 54	90 55	81 53	74 42	82 38	75 38	55 43	66 42	65 26	66 46	80 52	82 51	80 38	88 55	88 58	75.5 45.5		
MUSCATINE NO 1	MAX MIN	82 63	74 52	60 35	58 32	61 32	77 54	72 56	63 45	73 43	76 39	75 45	73 44	73 46	77 46	85 59	87 54	87 59	82 52	70 41	76 39	68 42	52 44	65 39	62 27	62 47	77 50	79 46	78 46	85 37	87 58	73.3 46.3			
NEW HAMPTON	MAX MIN	77 62	69 44	51 31	53 28	55 31	72 43	68 51	62 46	69 39	69 43	71 45	66 41	68 48	71 41	79 46	82 59	84 53	84 55	69 45	66 35	75 42	50 41	50 38	57 42	58 23	75 40	73 40	73 47	84 42	86 52	67.8 43.3			
NEWTON	MAX MIN	83 62	72 47	58 32	57 30	60 34	79 52	73 54	63 45	71 40	74 48	76 45	72 41	83 49	79 54	88 61	88 59	88 59	79 54	73 40	80 44	66 40	55 42	64 39	64 30	70 49	82 44	78 51	84 49	86 55	87 63	74.5 47.3			
NORTHWOOD	MAX MIN	81 60	60 39	50 30	56 29	53 31	73 70	61 67	67 68	70 68	69 71	75 77	80 80	79 79	81 84	84 87	84 87	84 87	75 75	72 72	78 78	68 68	51 51	63 63	65 65	76 76	82 82	75 75	71 71	80 80	83 83	80 80	68.4		
NORWICH 2E SCS FARM	MAX MIN	71 63	67 44	56 33	56 30	61 36	75 49	64 49	69 44	36 43	43 42	40 49	49 55	48 48	63 63	54 55	55 51	51 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	41 39	72.9 45.1	
OAKLAND 2E	MAX MIN	72 64	68 46	55 29	54 28	61 35	79 48	70 49	64 44	67 35	71 41	75 39	77 34	80 48	78 46	79 49	77 64	81 53	83 58	75 47	70 33	78 44	61 37	47 40	61 31	64 27	72 46	78 39	78 41	76 38	81 45	83 56	71.5 43.0		
OELWEIN 2SE	MAX MIN			73 53	53 32	48 28	55 27	73 53	70 44	60 40	70 39	69 50	70 48	69 45	70 46	71 46	72 57	80 53	85 57	85 53	75 53	65 37	75 43	60 43	59 40	58 42	58 21	55 40	73 41	77 45	78 43	80 38	83 55	69.0 43.2	
ONAWA	MAX MIN	70 48	54 42	52 27	59 25	68 38	78 46	71 43	63 42	72 35	72 45	75 41	81 37	86 47	80 55	82 45	82 61	85 46	88 60	76 44	75 33	76 46	47 38	50 41	62 32	66 29	74 43	80 38	76 45	78 49	87 49	82 53	72.5 42.7		
OSAGE	MAX MIN	77 63	67 45	50 30	52 29	52 31	71 44	69 48	62 45	67 37	67 43	70 44	66 40	66 47	71 40	71 47	80 60	81 52	84 56	68 51	65 35	74 44	58 42	48 35	57 36	56 24	74 42	71 39	79 48	80 43	80 48	80 52	67.4 43.2		
OSCEOLA	MAX MIN	80 62	70 49	56 32	58 30	58 34	79 50	74 52	63 44	70 39	73 47	75 44	76 44	82 48	79 56	82 46	86 61	85 57	87 58	77 54	74 38	80 44	69 39	52 40	62 37	64 34	76 51	82 47	78 52	79 47	85 54	85 58	74.1 46.7		
OSKALOOSA	MAX MIN	84 62	75 49	58 31	57 30	61 31	80 45	71 54	65 44	72 37	77 40	76 40	74 42	84 43	79 52	79 45	89 61	90 60	90 56	80 52	73 40	82 41	65 43	58 39	64 23	64 49	72 45	80 47	85 39	88 55	88 65	75.5 45.1			
OTTUMWA AP CAA	MAX MIN	83 63	73 43	58 34	55 31	60 35	79 53	70 52	59 45	70 40	78 45	76 47	73 44	81 49	78 55	77 48	85 61	86 63	87 58	79 52	71 44	65 43	54 44	64 41	64 33	62 51	76 48	81 51	74 45	80 56	86 65	85 47.7			
PERRY 2SE	MAX MIN	78 64	67 45	54 32	58 28	58 33	78 45	74 50	61 43	69 33	69 42	74 38	75 36	80 44	77 45	79 45	84 58	85 50	85 60	75 52	73 33	80 40	59 37	52 39	61 29	64 23	70 40	79 40	72 45	78 39	85 43	79 59	69.8 42.2		
POCAHONTAS	MAX MIN	72 64	66 45	46 30	54 29	59 53	76 48	72 47	59 44	68 32	68 45	72 42	70 42	73 44	74 51	87 46	83 58	86 62	84 62	81 48	70 34	66 46	61 36	43 34	57 34	62 29	70 45	76 41	72 46	74 48	85 50	79 50	69.8 42.4		
PRIMGHAR	MAX MIN	73 49	57 42	45 28	54 26	62 37	73 44	67 43	64 40	67 36	72 44	75 46	72 38	79 44	79 50	80 45	79 59	82 46	84 59	75 45	70 36	72 44	65 37	50 34	63 34	64 29	74 45	81 41	74 46	77 48	80 50	84 50	71.7 42.4		
RED OAK	MAX MIN	70 65	68 45	55 31	55 28	60 36	80 50	73 52	64 45	67 33	72 43	75 40	72 35	79 51	79 46	80 49	82 63	85 54	87 57	77 46	74 34	80 44	69 39	52 41	62 34	76 27	82 50	78 39	74 38	81 38	86 42	85 58	73.5 43.6		
ROCK RAPIDS	MAX MIN	71 45	48 41	42 29	53 26	64 38	70 42	60 44	48 40	62 33	64 44	63 40	72 34	75 45	73 47	77 47	88 55	84 45	89 60	79 46	72 33	60 43	49 38	48 35	58 29	63 23	71 41	77 43	71 47	79 43	89 40	78 41	66.4 40.5		
ROCKWELL CITY	MAX MIN	73 62	67 46	48 30	56 28	59 33	78 47	72 50	62 43	69 33	70 43	73 40	75 44	77 44	76 50	78 44	83 58	85 49	86 61	72 48	73 36	78 44	58 37	49 35	60 33	63 26	72 43	79 41	73 47	77 44	85 42	81 54	70.9 42.9		
SAC CITY	MAX MIN	71 66	67 44	47 32	60 30	62 37	79 48	67 49	62 44	62 35	72 47	69 45	72 43	77 48	80 54	76 44	81 62	80 49	83 64	86 51	71 38	74 49	51 38	48 37	59 35	66 28	75 48	83 42	74 49	78 50	86 46	82 59	71.5 45.5		
SANBORN	MAX MIN	69 45	54 41	42 28	51 27	60 36	70 45	62 44	54 41	64 37	64 45	69 45	68 41	70 43	75 45	70 60	78 45	83 60	83 65	72 45	69 37	64 42	52 38	43 34	56 31	62 44	68 42	75 49	68 48	74 49	86 49	76 50	65.7 42.6		
SARATOGA 2E	MAX MIN	77 62	71 44	47 29	50 28	51 29	70 41	66 48	61 45	66 34	65 40	67 42	63 39	66 46	70 38	70 43	78 57	73 57	81 57	70 50	63 32	71 42	5												

DAILY TEMPERATURES

IOWA
OCTOBER 1950

Table 5-Continued

Station		Day of month																														Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
SPENCER 1N	MAX	69	51	44	54	62	73	65	56	68	68	71	69	71	73	78	74	81	85	68	71	66	46	45	58	62	69	78	70	77	88	79
	MIN	47	37	29	26	38	41	43	34	32	41	40	35	45	46	44	50	45	55	39	34	41	38	35	27	21	44	37	49	50	39	45
STATE CENTER	MAX	80	70	68	52	55	78	74	62	68	68	70	68	75	72	75	77	85	84	70	68	77	65	53	57	62	69	74	72	80	82	84
	MIN	60	46	33	31	33	53	52	43	40	52	47	43	49	53	48	60	59	59	54	39	47	41	39	39	33	47	45	50	49	54	63
STORM LAKE 2E	MAX	71	66	45	53	60	75	65	59	66	67	70	72	74	73	77	79	79	83	74	70	72	56	45	57	62	69	77	70	74	85	
	MIN	58	44	29	29	36	43	43	42	33	44	43	44	45	51	44	59	48	63	47	35	46	36	35	35	28	42	41	49	51	47	
TINGLEY	MAX	78	69	58	56	58	79	72	64	68	72	75	76	81	80	81	84	85	85	78	74	78	60	49	65	64	76	82	78	80	83	
	MIN	62	45	31	28	35	49	53	44	37	45	45	40	47	54	48	61	55	55	51	40	42	40	41	37	33	48	47	50	45	53	
TIPTON	MAX	82	74	59	56	61	77	68	61	72	74	74	71	70	73	74	81	88	86	76	67	78	66	54	63	61	64	75	72	81	84	
	MIN	62	48	34	31	32	53	54	46	42	44	46	49	50	42	44	51	58	52	54	40	39	41	42	45	28	42	45	48	42	42	52
TOLEDO	MAX	82	72	55	57	58	80	72	60	74	75	75	73	74	77	75	85	90	90	74	74	82	65	58	62	66	64	81	81	94	88	
	MIN	62	48	32	30	32	52	53	44	39	42	43	44	43	49	44	59	55	59	54	38	44	40	41	39	25	43	41	48	42	50	67
TRIPOLI	MAX	78	72	54	56	55	74	70	61	70	71	71	67	69	73	73	81	84	86	79	67	77	71	54	60	60	59	74	74	80	84	
	MIN	62	50	31	28	33	48	53	46	39	42	46	42	47	40	46	59	52	57	53	37	44	44	39	40	24	43	42	46	41	50	
VINTON	MAX	80	76	54	53	57	76	72	62	70	71	71	68	71	73	74	86	87	88	75	69	78	60	68	61	60	75	71	80	84	85	
	MIN	61	49	34	30	29	52	54	46	49	38	43	43	43	40	41	57	53	52	53	34	38	40	38	22	45	41	40	46	50	43.5	
WASHINGTON	MAX	83	74	59	58	61	78	71	61	73	79	77	74	77	79	78	87	89	89	80	72	80	69	51	66	65	64	78	80	81	87	
	MIN	62	49	33	29	31	54	55	44	41	40	44	39	43	50	45	59	54	55	52	41	40	42	43	44	26	45	45	48	39	55	
WATERLOO AP 5NW	MAX	80	70	52	53	57	76	73	63	67	69	70	68	70	72	74	80	84	87	70	68	76	50	54	59	58	59	72	74	80	81	
	MIN	62	66	34	30	33	50	54	47	38	43	45	41	45	40	42	58	50	56	53	38	41	44	41	41	22	42	42	45	39	47	
WAUKEE	MAX	81	75	58	55	57	80	71	63	70	72	76	75	82	79	80	86	87	87	77	73	81	75	56	62	65						
	MIN	62	52	32	30	34	50	55	45	38	45	44	45	47	57	48	64	59	60	56	40	44	42	41	35	30						
WAUKON	MAX	76	69	52	53	53	69	66	59	70	70	68	64	64	68	68	79	80	82	70	64	73	61	48	56	57	51	70	71	76	79	
	MIN	60	41	31	28	28	41	50	44	39	42	48	41	45	43	44	54	54	58	54	39	44	41	37	42	30	39	43	44	45	49	
WEBSTER CITY	MAX	78	68	50	57	55	78	73	58	69	71	73	71	72	75	77	86	86	72	72	79	60	48	59	62	69	77	72	80	85	83	
	MIN	62	46	32	27	30	48	50	43	34	42	39	35	40	44	40	59	47	55	50	37	43	38	39	31	22	46	36	41	38	44	
WILLIAMSBURG	MAX	82	76	57	54	60	78	71	62	70	77	75	73	74	75	76	89	89	90	77	71	80	63	53	63	64	64	68				
	MIN	62	48	34	30	30	52	55	44	40	41	42	42	42	47	45	57	55	51	54	40	41	41	44	41	22	45	44				
WINTerset	MAX	79	70	58	60	58	79	74	66	71	74	78	79	83	80	81	84	86	87	79	75	82	73	53	64	66	76	84	80	81	85	
	MIN	63	51	31	29	34	48	52	45	37	47	44	40	49	56	46	63	58	60	52	39	46	39	40	37	31	49	45	51	45	53	
WOODWARD 7N	MAX	75	73	72	55	57	79	75	65	67	71	73	72	72	75	78	80	86	86	73	72	80	75	57	60	63	71	78	74	81	86	
	MIN	63	50	33	29	35	51	52	45	35	47	44	40	49	53	50	63	54	62	54	40	46	39	40	34	53	47	43	51	45	50	

EVAPORATION AND WIND

Table 6

Station		Day of month																														Total or ave
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Ames 3 SW	EVAP	.09	.10	.11	.09	.09	.15	.24	.09	.10	.08	.18	.11	.12	.14	.17	.09	.20	.29	.16	.14	.14	.08	.06	.08	.10	.16	.08	.17	.18	.14	.23
	WIND	78	92	36	27	64	92	112	94	24	19	44	21	32	26	59	69	63	109	61	45	58	52	53	35	31	81	18	31	67	38	
Cherokee	EVAP	-	.17	.04	.06	.10	.03	.15	.09	.13	.07	.20	.12	.09	.15	.13	.13	.14	.32	.13	.14	.12	.06	.02	.07	.10	.10	.10	.18	.20	.14	.16
	WIND	28	116	29	34	81	47	111	55	132	23	66	36	13	21	182	48	20	133	30	53	77	30	38	74	38	36	28	82	140	62	
Iowa City	EVAP	.13	.14	.16	.08	.12	.19	.12	.11	.07	.11	.20	.23	.15	.13	.12	.15	.19	.21	.24	.10	.14	.10	.08	.13	.08	.15	.09	.14	.19	.11	.12
	WIND	63	115	92	55	36	99	73	88	37	23	79	90	27	41	35	53	30	45	78	36	21	43	89	71	12	75	42	34	39	34	
Norwich 2 E SCS Farm	EVAP	-	-	-	.10	.09	.15	.35	.17	.12	.12	.18	.14	.14	.18	.13	.18	.23	.19	.16	.15	.14	.12	.07	.05	.07	.20	.08	.18	.14	.15	.20
	WIND	122	103	56	18	91	130	160	130	36	50	56	48	46	29	46	116	67	89	27	51	40	73	67	58	24	81	23	51	17	38	

See reference notes following Station Index.

STATION INDEX

IOWA
OCTOBER 1950

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Akron	0088	Plymouth	1 43 48	96 33	1153	6P		Orlan C. Moore	3	Missouri Valley	5584	Harrison	3 41 33	95 54	1068	7P	7P	S. William Sorenson	2 3 4 5		
Albia	0112	Monroe	6 41 02	92 48	949	6P	7A	Arthur L. Freed	2 3 5	Monmouth 4 SW	5622	Jones	12 42 03	90 55	870	7P	7P	Arnold Blasinger	2 3 5		
Algona	0157	Kossuth	8 43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	Monona	5630	Clayton	14 43 03	91 22	-	-	-	Mrs. Anna M. Welter	3 4		
Allison	0157	Butler	4 42 48	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	Montezuma	5650	Poweshiek	10 41 35	92 31	-	-	-	Rob't G. Fleming Jr	3 4		
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P	7P	F. Edna Allen	2 3 5	Moravia	5732	Johnson	10 41 44	91 26	-	-	-	Margaret R. Miller	3 4		
Alton	0181	Sioux	7 42 59	96 01	1305	7P	7P	W. S. Slagle	2 3 5	Moravia 1 NE	5737	Johnson	10 41 40	91 25	-	-	-	L. J. Fuhrmeister	3 4		
Ames 2 SW	0205	Story	21 42 00	93 39	1004	7P	7P	Charles M. Brown	2 3 4 5 6 7	Moravia 2 SW	5742	Johnson	10 41 41	91 24	-	-	-	H. L. Cornelison	2 3 4 5		
Anamosa 1 SW	0213	Jones	27 42 07	91 18	873	7P	7P	State Reformatory	2 3 5	Mount Air 2 N	5769	Ringgold	9 40 44	94 14	1214	6P	6P	A. M. Patterson	2 3 4 5		
Ankeny 2 SW	0241	Polk	6 41 43	93 38	-	5P	5P	Bur. of Entomology	2 3 4 5	Mount Pleasant	5794	Henry	21 40 57	91 32	730	6P	6P	A. M. Patterson	2 3 4 5		
Atlantic 1 E	0364	Cass	16 41 24	94 59	1110	8P	7P	Roy L. Fancolly	2 3 5	Moville	5823	Woodbury	11 42 29	95 04	-	-	-	Joseph H. Bahner	3 4		
Atlantic AP CAA	0369	Cass	16 41 24	95 02	1152	MID	MID	Airways Com. Sta.	2 3 4 5 7	Muscataine No. 1	5837	Muscataine	14 41 26	91 03	680	7P	7P	F. J. Bauerbach	2 3 4 5		
Audubon 2 S	0385	Audubon	16 41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	Muscataine No. 2	5845	Muscataine	14 41 25	91 03	546	7A	7A	Robert B. Nagy	3		
Augusta	0389	Des Moines	21 40 46	91 17	522	5A	5A	Glen Wood	2 3 5	Nashua 2 NW	5873	Floyd	4 42 59	92 34	990	7A	7A	Herbert W. Swinton	3		
Bacroft	0463	Kossuth	6 42 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	New Hampton	5952	Chickasaw	27 43 04	92 19	1156	7P	7P	Lody Hrdlicks	2 3 5		
Bartlett 3 E	0493	Fremont	26 40 53	95 44	-	6P	6P	H. L. Kilpatrick	2 3 5	Newtown	5992	Jasper	21 41 42	93 04	980	7P	7A	Al A. Schell	2 3 5		
Beaver	0549	Boone	6 42 02	94 08	-	6P	6P	Archie E. Sparks	2 3 4	North English	6076	Iowa	4 41 29	92 05	780	7P	7A	Earnest E. Andrews	3 4		
Bedford 1 N	0576	Taylor	28 40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	Northwood	6103	Worth	4 43 27	93 13	1222	7P	7A	Charles A. Walker	2 3 5		
Belle Plaine	0600	Benton	10 41 54	92 17	855	7P	7P	Walter C. Babb	2 3 5	Norwich SCS Exp Pw 2 E	6119	Page	22 40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5 6 7		
Bellevue Lock & Dam 12	0608	Jackson	14 42 16	90 25	603	7P	7A	U. S. Engineers	2 3 4 5	Oakland 2 E	6151	Pottawattami	16 41 19	95 33	1150	6P	6P	Ward D. Heinke	2 3 5		
Blackfoot 2 S	0745	Taylor	19 40 36	94 29	1081	5P	5P	Glenn A. Cobb	2 3 5	Oasis	6186	Johnson	10 41 43	91 24	-	-	-	Ed Kadera	3 4		
Bloomfield 2 N	0753	Davis	8 40 47	92 28	825	7P	7P	Mrs. Leo Foster	2 3 5	Osawa 2 SE	6200	Fayette	27 42 39	91 54	-	-	-	Radio Station KOEL	2 3 5		
Boone	0807	Boone	6 42 04	93 53	1126	6P	6P	E. G. Kolb	2 3 5	Osawa	6243	Monona	15 42 02	96 06	1050	7P	7A	W. J. Oliver	2 3 5		
Britt	0823	Hancock	10 43 04	93 49	1234	6P	6P	Rev. B. A. East	2 3 5	Oswego	6305	Mitchell	4 43 17	92 48	1170	6P	7A	L. J. Lamprecht	2 3 5		
Burlington WB Airport	1063	Des Moines	14 40 47	91 08	695	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Oswego	6318	Clarke	6 41 02	93 46	1136	6P	6P	Ray A. Kerns	2 3 5 7		
Carroll	1233	Carroll	30 42 04	94 52	1280	7P	7A	Ben H. Schenkelberg	2 3 5	Oswego	6327	Wahaska	8 41 17	92 40	813	6P	6A	Cliff Bergtresser	2 3 5 7		
Carroll	1245	Pottawattami	16 41 14	95 25	-	7P	7P	Glady's M. Smith	3 4	Ottumwa AP CAA 5 W	6359	Wapello	6 41 06	92 27	842	MID	MID	Airways Com. Sta.	2 3 5 7		
Cascade	1257	Dubuque	12 42 13	91 00	680	7P	7P	C. J. Kellers	2 3 4 5	Ottumwa	6391	Wapello	6 41 00	92 24	820	7A	7A	Winfrey Kinsner	3		
Cattana 4 E	1277	Monona	11 42 04	95 49	-	7P	7P	Bob Zimmerman	2 3 5 7	Pella	6527	Marion	6 41 24	92 35	875	8A	8A	Arthur E. Verrips	3		
Cedar Falls	1300	Black Hawk	4 42 32	92 37	875	7P	7P	E. J. Cable	3	Perry 2 SE	6566	Dallas	20 41 31	94 06	975	7P	7P	Eugene W. Haslie	2 3 5		
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39	813	7P	7A	John T. Wurster	2 3 5 7	Plagah	6634	Harrison	15 41 50	95 55	-	-	-	Robert Dabe	3		
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40	-	7A	7A	C. M. Simon	3	Pocahontas	6719	Pocahontas	6 42 44	94 40	1228	7P	7P	Thomas A. McMahon	2 3 5		
Centerville	1354	Appanoose	5 40 43	92 33	1013	7P	7P	Karl McIntire	2 3 4 5	Prisbhar	6800	O'Brien	11 43 05	95 38	1517	6P	6P	R. A. Ballard	2 3 5		
Chariton 3 E	1394	Lucas	5 41 00	93 15	940	7P	7P	Ellis Shaw	2 3 5	Red Oak	6840	Montgomery	16 41 01	95 13	1077	9P	MID	Clarence W. Totty	2 3 5		
Charles City	1402	Floyd	4 43 04	92 40	1013	MID	MID	U.S. Weather Bureau	2 3 4 5	Red Oak 1 NW	6941	Montgomery	16 41 01	95 14	-	-	-	Mrs. E. M. Cosad	3		
Cherokee	1442	Cherokee	11 42 45	95 33	1358	7P	7P	J. Earl Wirth	2 3 4 5 6 7	Rensselaer	6975	Plymouth	7 42 49	95 58	-	-	-	Municipal P & L Pl.	3 4		
Clarence	1528	Cedar	4 41 53	91 03	-	7A	7A	Ronald W. Harness	2 3 5	Ringsted	7058	Emmet	6 43 18	94 30	-	-	-	Marvin A. Trees	3 4		
Clarinda	1533	Page	17 40 44	95 01	1004	7P	7A	Walter L. Wealand	2 3 5	Riverton	7085	Fremont	16 40 41	95 35	920	7P	7P	William Stubbs	3		
Clarion	1541	Wright	2 42 44	93 44	1170	7P	7P	George Heudor	2 3 5	Rock Rapids	7147	Lyon	3 43 26	96 10	1341	7P	7P	George Raveling	2 3 5 7		
Clinton No. 1	1635	Clinton	14 41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	Rockwell City	7161	Calhoun	20 42 34	94 37	1223	7P	7P	F. C. Heitelspacher	2 3 4 5		
Clinton No. 2	1640	Clinton	14 41 50	90 11	-	7A	7A	David W. Swift	3	Rockwell City	7312	Sac	20 42 26	94 59	1274	8P	8P	W. D. Heitelspacher	2 3 5		
Columbus Junction	1731	Louis	10 41 17	91 22	595	6P	6P	Alice Best	2 3 5	Saint Ansgar 2 S	7326	Mitchell	4 43 21	92 55	-	-	-	Irvin L. Halverson	3 4		
Cook Rapids	1753	Scott	20 41 51	94 39	-	7A	7A	Charles W. Smith	3 4	Saint Charles	7340	Madison	6 41 16	93 47	-	-	-	Rose E. Wise	3 4		
Corning 1 W	1833	Adams	17 41 00	94 45	1300	7P	7A	Earl Gibson	2 3 5	Sanborns	7386	O'Brien	7 43 11	95 39	1552	7P	7P	Miss Suzie O. Dow	2 3 5		
Corydon	1848	Wayne	9 40 46	93 19	-	6P	6P	Robert L. Stoffer	3 4	Saratoga 2 E	7410	Howard	22 42 22	92 22	-	-	-	Don A. Fairchild	2 3 5 7		
Council Bluffs 6 NE	1888	Pottawattami	15 41 20	95 49	-	6P	6P	Mrs. H. O. Crane	3 4	Sheffield	7410	Franklin	4 42 54	95 13	-	-	-	Richard J. Galvin	3 4		
Council Bluffs 5 NE	1889	Pottawattami	15 41 19	95 49	-	6P	6P	Perry C. Crandall	2 3 5 7	Shelby 3 SE	7582	Pottawattami	16 41 29	95 36	-	-	-	Loretta M. Denning	3 4		
Cresco	1954	Howard	23 43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	Sheldon	7594	O'Brien	4 43 10	95 51	1418	7P	7P	Rose K. Forward	2 3 5		
Creston Airport 3 NE	1962	Union	19 41 06	94 20	1312	7A	7P	Westwood Airlines	2 3 5	Shell Rock	7603	Butler	4 42 43	92 55	-	-	-	Elmer J. Apfel	3 4		
Cumberland 5 NW	3007	Cass	17 41 18	94 53	1325	5P	5P	Carl E. Pollock	3	Shenandoah	7613	Page	16 40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5 7		
Cushing	3026	Woodbury	11 42 28	95 40	1350	7P	8A	Walter G. Pfeiffer	3	Sibley	7664	Osceola	1 43 24	95 45	1496	6P	6P	R. D. Steward	2 3 5		
Dakota City	2037	Ruboldt	6 42 44	94 12	1133	7P	7P	H. S. Brandsgard	2 3 4 5	Sidney	7669	Fremont	16 40 45	95 38	1050	6P	6P	James E. Shearer	2 3 5		
Davenport WB City	2069	Scott	14 41 31	90 34	579	MID	MID	U.S. Weather Bureau	2 3 5 7	Siourney	7678	Keokuk	31 41 20	92 12	780	7P	7A	Grace L. Sanderson	2 3 5		
Decorah	2110	Winneshiek	24 43 18	91 48	859	5P	5P	Walter Bates	2 3 5	Siourney	7700	Sioux	1 48 05	96 12	1456	6P	6P	Richard J. Kroon	3 4		
Decorah 2 S	2112	Winneshiek	24 43 17	91 47	880	7P	7A	Mora A. Carlson	2 3 5 7	Sioux City 8 W	7793	Plymouth	15 42 26	96 24	-	-	-	Leo Vondrak	3 4		
Delaware 2 W	2136	Delaware	12 42 28	91 23	1083	7P	7A	Chair E. Paris	2 3 5	Sioux City WB Airport	7798	Woodbury	15 42 32	96 22	1093	MID	MID	U.S. Weather Bureau	2 3 4 5 7		
Denison 1 S	2171	Crawford	4 42 00	93 22	-	7P	7P	E. M. Hunsaker	2 3 5	Sioux City 4 W	7713	Woodbury	15 42 32	96 25	-	-	-	Dan McKelvey	2 3 5		
Derby	2195	Lucas	5 40 56	93 32	-	7P	7P	Lloyd A. Kirk	3 4	Sioux Rapids	7736	Buena Vista	11 42 53	95 08	1275	7P	7P	W. A. Simonsen	2 3 5		
Des Moines WB Airport	2203	Polk	6 41 32	93 37	800	MID	MID	U.S. Weather Bureau	2 3 4 5 7	Soldier	7774	Monona	15 42 59	95 46	-	-	-	John T. Wade	3 4		
Des Moines WB City	2208	Polk	6 41 32	93 37	800	MID	MID	U.S. Weather Bureau	2 3 5	Spencer 1 N	7844	Clay	11 48 10	95 09	1331	MID	MID	Radio Station KICD	2 3 4 5 7		
Dexter	3240	Dallas	6 41 30	94 14	-																

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830 CST.

- No record in Tables 3, 4, 6, 7, and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record. Degree Day data, if carried for this station, have been adjusted to represent the value for the full month.
- R Daily values and monthly total from recording gage. All other data in Table 3 are from non-recording gages.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual, \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 804 Fidelity Building, Kansas City 6, Missouri.

W.B.O., Kansas City, Mo. -- 12-7-50 -- 1110



IOWA

STATUTE MILES
0 10 20 30 40

STATION LEGEND

- ● ○ Precipitation only
 - ○ Precipitation, storage
 - ● ○ Precipitation and Temperature
 - ● ○ Precipitation, Temperature and Evaporation
 - ○ Section Center
- Type of gage: ○ Non-recording;
● Recording; ○ Both types
- Double circle combinations: Complete Meteorological.

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

NOVEMBER 1950

Volume LXI No. 11



C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of November was rather cold and dry. The month was also characterized by spells of extremes of temperature, both warm and cold. For the month, temperatures averaged 33.1° or 4.3° below the monthly normal. On comparison, there were only twelve Novembers colder since state-wide records began in 1873. For the fourth consecutive month, precipitation has averaged deficient for the State. For November, the total was .59 inch compared to the normal of 1.72 inches. The heaviest amounts occurred in the extreme eastern counties where totals ranged up to 1.69 inches at Maquoketa.

On the second of the month, the very warm spell that began in October was broken. Temperatures rapidly lowered to the seasonal levels and the first significant snow of the season fell on November 3. Atlantic had one inch and a few other points had similar amounts. By the end of the first week, general harvesting of the corn crop was underway over the southern part of the State. Also, the soybean harvest was completed. Most of the precipitation for the month occurred on the 8th-9th. However, moisture amounts were not sufficient to alleviate the dry soil conditions.

The period 8th-13th was rather cold and windy. In central Iowa, frost penetrated to a depth of four inches. A rapid warming trend on the 14th-15th brought temperature readings into the 60's and 70's. A high of 77° was recorded at several southeast points on the 15th. Readings on that date equalled or broke high temperature records at many points in the State.

These record temperatures were followed by a cold wave early on the 16th. The cold wave was accompanied by strong, northerly winds and a little light snow or snow flurries. The first dangerous highway conditions of the season were reported on the 19th-20th as snow and sleet mixed with rain fell in varying amounts over most of the State. Two persons were killed in separate automobile accidents; in both cases, highways were icy.

As in previous years, the second tests in the fall survey of corn moisture were conducted on November 20th by the Weather Division of the State Department of Agriculture. According to this sample survey, the 1950 Iowa corn crop averaged 18.6% in moisture content. Thus, as expected, the moisture content had been appreciably lowered from the October tests when the corn moisture averaged 36%. On a State-wide basis, the moisture content of the corn on November 20th was about the same in the fall of 1947 and 1948. In general, this year, the driest corn came from the southeast district where it tested 16.4%, while the wettest corn came from the northeast where the moisture averaged 21.0%. Besides testing these samples for moisture content, measurements of test weights were taken. These weight measurements are another factor in determining the grade and quality of the corn. This year the State-wide average weight per bushel was 55.6 pounds or nearly three pounds lighter than in 1949. There was considerable more variation in the test weights this year than in previous falls, particularly over the northern third of the State. This variation was partly due to the scattered killing frosts that hit northern Iowa both in late August and September.

The coldest weather of the month began with the cold wave which hit the State early November 23rd on Thanksgiving Day. Strong, northerly winds and a few snow flurries accompanied the near zero to sub-zero readings. The lowest recorded was 11 below zero at Cresco in Howard County on the morning of the 24th. Temperatures continued subnormal for the remainder of the month.

The cold and disagreeable weather slowed down the corn picking operations a little, but by the end of the month most of the crop was harvested. It was generally agreed that the quality of the corn was better than earlier anticipated. The drying weather of October and November eliminated the difficulty of soft corn. However, as a result of the dry weather, the soil in many sections was freezing dry. Frost penetration reached over eight inches in central Iowa by the end of the month. Reports from a few sections stated that farm wells were going dry.--MDM

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages --mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
NOVEMBER 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base	
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	01-09	10-49	50-99	100-199	200 and over				Total
Burlington WB Airport	NW	16	12.0	41	NW	26	76	78	62	68	9	2	3	0	0	0	14	44	7.0	See Table 2
Charles City WB City	-	-	7.6	22	NW	9	-	-	-	-	8	4	1	0	0	0	13	47	5.7	
Davenport WB City	-	-	-	-	-	-	-	-	-	-	7	3	1	1	0	0	12	-	-	
Des Moines WB Airport	NW	19	14.5	49	W	16	71	76	58	60	7	2	1	0	0	0	10	51	6.2	
Dubuque WB City	-	-	7.0	23	NW	23	-	-	-	-	10	2	2	1	0	0	15	46	6.5	
Sioux City WB Airport	NW	23	11.6	42	NW	22	71	75	51	59	9	3	1	0	0	0	13	62	6.3	

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation		
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more
1873	36.2	64	- 4	0.72			1903	34.2	76	- 5	0.52	1.1	3	1933	37.9	83	- 7	0.31	1.2	3
1874	32.9	74	- 6	2.21			1904	41.0	80	- 4	0.15	0.5	1	1934	41.9	79	- 11	5.03	7.2	10
1875	30.1	60	- 16	0.19			1905	38.4	70	- 12	2.84	0.6	5	1935	34.0	73	- 7	2.70	1.8	8
1876	31.3	68	- 6	1.70			1906	35.4	76	- 5	2.03	4.4	8	1936	35.5	77	- 5	0.66	2.3	4
1877	33.3	82	- 10	1.86			1907	36.7	68	- 4	1.03	0.9	4	1937	33.9	82	- 17	0.72	5.2	4
1878	39.7	72	12	0.63			1908	39.3	80	- 5	1.56	1.4	5	1938	37.6	83	- 8	2.76	3.1	6
1879	36.3	75	4	4.08			1909	42.4	84	- 3	5.39	6.8	10	1939	39.9	74	9	0.51	T	3
1880	25.3	68	- 12	1.29			1910	33.4	76	5	0.34	0.7	3	1940	33.6	78	- 12	2.45	5.0	8
1881	34.4	65	- 1	2.01			1911	29.9	79	- 8	1.42	1.6	6	1941	40.0	78	2	1.71	2.6	5
1882	37.5	76	4	1.71			1912	40.1	77	6	0.98	T	2	1942	38.8	80	- 10	1.76	5.1	8
1883	36.8	70	- 3	1.44			1913	44.1	78	10	1.18	0.4	6	1943	33.8	72	1	1.01	3.1	4
1884	35.6	68	- 15	0.79			1914	41.0	80	- 4	0.22	T	2	1944	40.4	81	0	1.73	2.6	8
1885	36.4	67	14	0.69			1915	40.2	83	- 5	1.94	1.2	6	1945	36.9	81	3	1.25	1.9	5
1886	32.1	75	- 4	1.49			1916	37.3	80	- 8	1.61	3.6	5	1946	38.1	68	1	1.74	1.5	6
1887	35.1	78	- 25	0.85			1917	40.7	77	3	0.28	1.4	3	1947	32.6	65	- 22	1.83	7.7	10
1888	37.1	82	0	1.56			1918	39.9	76	0	2.11	4.4	7	1948	39.0	76	- 4	2.68	2.1	8
1889	33.0	68	- 9	1.44			1919	33.6	68	- 12	3.40	6.3	8	1949	41.7	79	6	0.49	0.6	3
1890	38.9	78	- 2	1.31			1920	35.4	71	5	2.18	1.2	8	1950	33.1	84	- 11	0.59	1.3	4
1891	30.5	84	- 24	1.70		7	1921	33.6	70	- 5	0.58	3.4	5	PERIOD	36.4			1.59	2.6	
1892	33.3	70	- 3	1.10	1.8	4	1922	42.2	74	11	3.54	0.3	9							
1893	34.0	86	- 13	1.17	4.6	4	1923	40.1	72	9	0.58	1.2	3							
1894	32.7	72	- 5	0.92	0.4	4	1924	38.9	82	0	0.58	0.4	4							
1895	34.3	86	- 12	1.51	4.9	6	1925	36.1	68	- 6	0.71	4.0	4							
1896	29.6	82	- 15	1.83	2.9	6	1926	32.6	71	- 3	2.10	4.2	7							
1897	34.3	81	- 19	0.66	1.2	5	1927	37.7	81	0	0.87	0.6	5							
1898	32.2	78	- 17	1.50	8.7	6	1928	38.7	70	8	3.83	6.9	9							
1899	43.9	86	8	1.20	0.5	5	1929	32.3	66	- 12	1.24	2.7	6							
1900	33.5	79	- 6	1.06	3.7	6	1930	41.3	79	- 16	2.12	1.1	5							
1901	35.8	77	2	0.86	2.6	3	1931	43.9	81	1	5.76	1.6	12							
1902	41.2	79	4	2.13	1.8	7	1932	33.2	68	- 5	1.55	3.8	4							

See reference notes following Station Index.

CLIMATOLOGICAL DATA

IOWA
NOVEMBER 1950

Table 2

Station	Temperature										Precipitation								
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																			
Alta	32.8	-2.9	67	5	-4	23	960	0	25	.34	-1.23	.14	2	T	T	19+	4	0	0
Alton	33.4M	-2.0	61	1	-5	23	934	0	27					T	0		2	0	0
Cherokee	32.3	-2.8	68	5	-4	23	976	0	27	.38	-.95	.13	3+	T	0		4	0	0
Emmetsburg	31.6	-1.7	65	15	-3	23+	992	0	26	.30		.25	8	1.0	0		2	1	0
Estherville	30.7	-3.0	65	1	-5	24	1022	0	25	.55	-.87	.35	16	2.0	2	16	2	1	0
Hawarden	32.9	-2.8	70	5	-1	23	956	0	27	.28	-.82	.27	2	T	0		2	1	0
Inwood 2 W	30.7	-3.4			-5	23	1034	0	28	.37	-.72	.20	3	T	0		3	0	0
Lake Park	30.6	-2.5	71	5	-8	23	1026	0	28	.38	-.87	.20	8	3.0	2	16+	2	0	0
Le Mars	34.4	-1.7	65	5	-3	23	908	0	28	.49	-.70	.15	2	T	0		4	0	0
Milford 4 NW	30.2	-3.3	72	5	-7	23	1037	0	28	.32	-.98	.11	8+	1.2	1	16	5	0	0
Pocahontas	31.5	-4.1	70	1	-3	23+	997	0	27	.20	-1.37	.20	8	.0	0		1	0	0
Primghar	32.9	-1.6	71	1	-6	23	955	0	28	.44	-.86	.30	8	T	0		3	1	0
Rock Rapids	31.2	-1.4	70	5	-4	23	1007	0	28	.29	-.92	.19	2	T	T	8+	2	0	0
Sanborn	31.6	-2.5	67	5	-5	23	997	0	27	.22	-1.10	.10	8	.3	T	23+	5	0	0
Sheldon	30.9	-3.3	67	5	-5	23	1016	0	28	.26	-.95	.13	2	.2	T	9+	3	0	0
Sibley	29.2	-3.3	73	1	-7	24	1066	0	28	.35	-.85	.16	8	.5	1	16	6	0	0
Sioux Rapids	30.8	-4.1	70	5	-4	23	1030	0	28	.51	-.99	.33	8	1.0	0		3	1	0
Spencer 1 N	28.5	-5.6	70	5	-5	23	1088	0	28	.24	-1.15	.09	8	.5	T	16	6	0	0
Storm Lake 2 E	32.0	-4.0	66	5	-4	24	986	0	26	.34	-1.06	.14	3+	T	0		4	0	0
DIVISION	31.5	-3.1								.35	-.97			.5					
NORTH CENTRAL DIVISION																			
Algona	31.5	-3.9	70	1	-2	23+	999	0	26	.38	-1.24	.32	8	.6	T	8+	3	1	0
Allison	30.3M	-5.1	65	1	-4	24	1038	0	26	.36	-1.46	.28	8	1.0	0		2	0	0
Bancroft	31.2	-2.8	71	5	-4	23+	998	0	26	.74	-.86	.36	8	2.6	1	25	5	2	0
Britt	32.0	-2.7	78	1	-3	24	991	0	24	.84	-.74	.43	8	3.4	2	16	5	1	0
Charles City	30.1	-4.7	64	15	-2	23+	1040	0	26	.42	-1.45	.30	8	.8	T	9+	5	1	0
Clarion	30.5	-5.6	68	15	-3	24	1029	0	25	.43	-1.37	.33	8	.8	T	16+	3	1	0
Dakota City	32.0	-4.3	67	5	-1	23+	983	0	26	.46	-1.30	.28	8	.9	T	19+	4	1	0
Forest City	29.5M	-4.9	64	5	-5	23+	1053	0	26	.62	-1.08	.43	8	1.9	T	8+	3	1	0
Hampton	31.4	-4.1	74	1	-3	24	1001	0	25	.38	-1.47	.32	8	T	T	19+	5	1	0
Mason City 3 N	30.0	-4.7	66	15	-3	24	1044	0	25	.24	-1.38	.22	8	.3	0		2	0	0
Mason City AP CAA	28.1	-6.6	64	5+	-4	23+	1102	0	26	.46	-1.16	.42	8	.2	T	9+	4	1	0
Northwood	29.3	-4.7	70	1	-5	23+	1064	0	27	.47	-1.49	.27	9	T	T	22+	4	1	0
Osage	29.7M	-5.0	68	1	-5	23+	1102	0	27	.61	-1.09	.36	8	.3	T	22+	3	1	0
DIVISION	30.4	-4.7								.49	-1.26			1.0					
NORTHEAST DIVISION																			
Cascade	31.8		75	1	-5	24	993	0	24	1.30		.75	15	1.4	1	22+	6	2	0
Cresco	29.5	-4.7	71	1	-11	24	1059	0	27	.86	-.99	.58	8	3.0	3	22+	2	2	0
Decorah	30.6		73	1	-7	24		0	25	.39		.30	9	2.2	2	23	2	1	0
Delaware 2 W	31.0	-4.4	71	1	-5	24	1010	0	25	.80	-1.04	.42	15	.5	1	19	4	2	0
Dubuque Lock & Dam	32.3	-5.8	72	1	-7	24	975	0	21	1.06	-.79	.33	9	1.5	2	23	4	2	0
Dubuque WB City	33.3	-4.8	76	1	-4	24	942	0	23	1.39	-.46	.89	15	2.1	1	22+	6	2	0
Elkader	31.2M	-4.4			-7	24	1017	0	24	.51	-1.39	.29	15	1.5	0		3	1	0
Fayette	29.7	-5.4	69	1	-6	24	1053	0	26	.39	-1.62	.22	9	1.2	1	22+	6	0	0
Guttenberg Lock & Dam	33.8	-4.2	78	1	-4	24	930	0	21	.58	-1.32	.33	17	1.0	1	23+	4	1	0
Independence 2 W	30.8	-6.0	76	1	-5	24	1019	0	25	.85	-.94	.40	15	1.5	0		4	1	0
New Hampton	29.4	-5.6	66	1	-5	24	1063	0	27	.32	-1.58	.27	8	1.0	0		3	1	0
Oelwein 2 SE	31.3	-4.6	75	1	-5	24	1001	0	23	.34	-1.66	.25	6	T	T	9+	3	1	0
Saratoga 2 E	27.9		65	1	-7	24	1108	0	27	.49		.40	8	1.5	2	22	2	1	0
Tripoli	32.0		75	1	-4	24	984	0	23										
Waterloo AP 5 NW	32.3	-4.6	79	1	-1	23	975	0	24	.22	-1.59	.15	15	.0	0		2	0	0
Waukon	29.5	-4.7	71	1	-10	24	1058	0	24	.32	-1.77	.32	8	.5	1	22+	1	1	0
DIVISION	31.0	-4.7								.65	-1.26			1.4					
WEST CENTRAL DIVISION																			
Audubon 2 S	32.9	-4.2	67	1	-2	24	938	0	26	.45	-1.14	.26	3	2.0	T	3+	3	1	0
Carroll	33.5	-3.3	65	1+	0	24	933	0	25	.47	-1.04			2.5	0		3	1	0
Castana 4 E	33.1M				-2	23	968	0		.64		.42	3	2.6	2	19	3	1	0
Denison 1 S	32.8	-4.5	68	1	0	23+	962	0	24	.30	-1.11	.17	3	2.0	1	19	3	0	0
Guthrie Center	34.2	-4.2	71	1	0	24	914	0	24	.33	-1.29	.25	3	1.8	1	19+	3	1	0
Harlan	34.1	-3.1	68	1	2	23	918	0	25	.47	-.99	.30	3	2.5	2	19+	2	1	0
Ida Grove 4 SSE	32.4M	-4.1			-2	23	973	0	25										
Jefferson	34.1	-3.4	69	15	1	24	918	0	24	.15	-1.38	.15	19	1.5	2	19	1	0	0
Lake City	32.4	-4.5	66	5	-2	24	972	0	26	.24	-1.31	.15	8	.2	0		3	0	0
Logan	34.8	-3.6	70	1+	2	23	899	0	24	.49	-1.03	.29	3	3.0	3	19	2	1	0
Mapleton 5 NW	32.9	-3.9	68	5	-1	23	957	0	25	.22	-1.18	.13	2	T	T	19+	3	0	0
Missouri Valley	35.6	-2.2	74	5	2	23	846	0	22	.61	-.79	.32	3	3.0	3	19	5	1	0
Onawa	34.6	-3.5	73	5	-1	20	903	0	22	.71	-.71	.50	2	3.0	2	19	4	1	0
Rockwell City	32.5	-4.4	67	5	-2	24	968	0	25	.30	-1.41	.15	8	1.2	1	19+	3	0	0
Sac City	33.8	-2.6	69	1	-1	23+	929	0	24	.33	-1.14	.12	8	.5	1	9	5	0	0
Sioux City WB Airport	32.3	-3.7	70	5	0	23	974	0	25	.41	-.70	.35	2	.3	T	9+	4	1	0
DIVISION	33.6	-3.7								.41	-1.06			1.7					
CENTRAL DIVISION																			
Ames 3 SW	33.1	-4.5	73	15	0	24	949	0	24	.30	-1.21	.16	19	1.8	2	19	5	0	0
Ankeny 2 SW	35.7M		80	1	1	23	881	0	23	.18		.10	8	T	T	9+	3	0	0
Boone			74	1															
Des Moines WB Airport	33.9	-3.9	75	15	1	24	929	0	24	.38	-1.20	.26	8	.7	1	20	3	1	0
Des Moines WB City	34.7	-4.8	75	15	2	24													

CLIMATOLOGICAL DATA

IOWA
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Table 2-Continued

Station	Temperature									Precipitation									
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	01 or more	25 or more	1.00 or more
Newton	34.1M	-4.9	76	1	0	24	952	0	21	.30	-1.31	.12	19	2.0	2	20	4	0	0
Perry 2 SE	32.7	-5.2	73	1	0	24	959	0	26	.43	-1.46	.25	8	1.1	T	16	3	1	0
State Center	33.1	-4.9	73	1	0	24	950	0	22	.48	-1.48	.24	9	2.0	2	20	4	0	0
Toledo	33.5	-4.8	77	1	-1	24	938	0	25										
Waukeo	31.8M	-6.7			-2	24	989	0											
Webster City	31.8	-4.4	71	1	-1	24	990	0	25	.47	-1.23	.28	8	1.8	1	19+	5	1	0
Woodward 7 N	35.3	-2.6	76	1	0	24	885	0	22	.22	-1.38	.13	19	1.0	1	19+	2	0	0
DIVISION	33.1	-4.7								.36	-1.39			1.2					
EAST CENTRAL DIVISION																			
Anamosa 1 NW	32.1	-4.7	75	1	-5	24	980	0	24	1.29	-.51	.47	8	1.0	1	22+	5	2	0
Belle Plaine	32.6	-5.2	75	1	-1	24	964	0	25	1.10	-1.03	.51	15	1.3	T	9+	8	2	0
Bellevue Lock & Dam	34.4	-4.3	76	1	-3	24	911	0	21	.78	-1.22	.45	9	.8	1	23+	6	1	0
Cedar Rapids No. 1	33.1	-4.9	76	1	-2	24	947	0	23	.93	-.82	.53	9	.8	T	23+	5	1	0
Clinton No. 1	34.4	-5.1	78	1	-4	24	913	0	21	1.12	-1.04	.44	8	.6	1	22+	8	2	0
Davenport WB City	35.0	-5.2	78	1	-2	24	894	0	20	.91	-1.06	.63	8	1.7	T	8+	5	1	0
Iowa City AP CAA	32.4	-6.0	75	1+	-3	24	976	0	25	1.28	-.71	.72	8	1.0	1	22+	5	2	0
Le Claire Lock & Dam	35.4		75	1	-2	24	878	0	20	.81	-1.33	.61	9	.3	T	9+	4	1	0
Maquoketa 5 E	33.0	-4.1	77	1	-8	24	956	0	22	1.69	-.31	.80	16	2.0	1	22+	4	3	0
Monmouth 4 SW	32.7	-5.2	83	1	-8	24	964	0	23	.58	-1.32	.48	8	.8	0		2	1	0
Muscatine No. 1	34.1	-5.4	81	1	-2	24	921	0	23	1.55	-.55	.96	8	2.0	1	8+	6	1	0
Tipton	33.7	-4.5	76	1+	0	24	933	0	22	.79	-1.06	.35	8	2.0	1	22+	3	2	0
Vinton	35.5M	-1.7	75	1	-2	24	879	0	22	.90	-.90	.43	16	T	T	23+	3	2	0
Williamsburg	36.5M	-2.0	75	1+	-2	24	860	0	25	.55	-1.45	.35	8	.0	0		5	1	0
DIVISION	33.9	-4.3								1.02	-.93			1.0					
SOUTHWEST DIVISION																			
Atlantic 1 E	34.8	-3.6	69	1	2	24	900	0	25	.48	-1.21	.40	3	1.9	T	3+	4	1	0
Atlantic AP CAA	32.2	-6.2	68	15	2	20	977	0	27	.34	-1.35	.17	2	1.6	T	9+	3	0	0
Bedford 1 N	36.2	-3.5	77	1	4	24	860	0	23	.85	-1.02	.65	8	6.5	6	8+	2	1	0
Clarinda	36.2M	-3.6	78	1	5	23+	859	0	26	.79	-.93	.59	9	3.0	1	9+	4	1	0
Corning 1 W	34.7	-4.4	71	15	1	24	903	0	25	.65	-.96	.44	9	.1	0		3	1	0
Council Bluffs 5 NE	35.7M		78	1	3	20+	870	0	22	.41		.31	3	1.0	T	20	3	1	0
Glenwood 2 E	35.2M	-4.4	78	1	3	20	887	0	23	.79	-.62	.36	3	2.0	1	20	3	2	0
Greenfield	34.2	-4.7	71	15	0	24	919	0	24	.64	-.96	.24	3	1.5	1	20	3	0	0
Norwich 2 E SCS	35.8	-3.7	73	1	4	24	869	0	24	.90	-.85	.56	8	4.5	2	8	5	2	0
Oakland 2 E	34.1	-4.4	70	1	-1	24	921	0	24	.50	-.95	.40	3	3.5	2	3	2	1	0
Red Oak	34.9	-4.3	68	15	5	23+	897	0	24	.67	-.78	.33	8	1.5	T	3+	5	2	0
Shenandoah	36.8	-3.2	78	1	5	24	839	0	22	.87	-.88	.46	8	4.0	2	8	4	2	0
Sidney	38.3		81	1	5	23	792	0	21	.75		.40	8	2.5	1	8	2	2	0
DIVISION	35.3	-3.9								.66	-.95			2.6					
SOUTH CENTRAL DIVISION																			
Albia	35.0	-4.8	76	15	2	24	894	0	22	.75	-1.08	.67	9	2.0	1	9	4	1	0
Centerville	36.0	-4.8	78	1	2	24	865	0	22	.63	-1.36	.49	9	2.0	2	9	4	1	0
Chariton 3 E	35.3	-4.7	80	1	0	24	885	0	23	.62	-1.11	.62	8	T	T	8	1	1	0
Indianola	35.5	-4.2	78	1	1	24	881	0	23	.48	-1.31	.39	8	.5	0		3	1	0
Knoxville 2 W	35.9	-4.2	80	1	1	24	868	0	20	.48	-1.39	.47	8	.2	T	19+	2	1	0
Lamoni AP CAA 4 WNW	34.3		76	15	4	24	916	0	24	.65		.60	8	2.7	1	8+	3	1	0
Mount Ayr 2 N	36.0	-4.0	79	1	3	24	861	0	23	.50	-1.42	.50	8	3.0	3	8+	1	1	0
Osceola	35.5	-4.5	75	1+	1	24	878	0	24	.66	-1.14	.58	8	T	T	8	3	1	0
Tingley	35.0	-4.6	75	1+	3	24	895	0	24	.76	-1.14	.56	8	2.3	1	8	3	1	0
Winterset	36.1	-3.6	78	1	0	24	858	0	23	.54	-1.15	.31	8	.5	T	23	3	1	0
DIVISION	35.5	-4.4								.61	-1.22			1.3					
SOUTHEAST DIVISION																			
Bloomfield 2 N	34.8M	-5.7	83	1	0	24	908	0		.42	-1.38	.22	19	2.0	1	9+	4	0	0
Burlington WB Airport	33.7	-5.9	81	1	0	24	932	0	23	.71	-1.44	.28	19	1.9	T	9+	5	1	0
Columbus Junction	34.6	-5.3	79	1	-1	24	905	0	23	1.38	-.67	.78	8	1.0	1	20+	7	2	0
Fairfield	33.6	-6.3	79	1	1	24	928	0	24	1.26	-.64	.78	8	1.5	1	8+	2	2	0
Keokuk Lock & Dam	36.4	-6.0	84	1	4	24+		0	21	1.09	-.98	.46	20	.5	T	9+	5	2	0
Keokuk WB City	36.4	-6.0	82	1	1	25	851	0	21	1.07	-1.00	.38	20	.5	1	24	6	2	0
Keosauqua	35.9	-5.5	80	1	3	24	870	0	23	.83	-1.22	.36	8	T	0		6	1	0
Mount Pleasant	34.6	-6.0	80	1	0	24	909	0	25	.79	-1.29	.53	8	2.2	1	8+	3	1	0
Oskaloosa	34.7	-4.8	77	15	1	24	906	0	23	.71	-1.19	.63	9	T	T	20+	5	1	0
Ottumwa AP CAA	34.1	-6.9	75	15	2	24	918	0	23	1.10	-.74	.76	8	.5	T	8+	5	2	0
Sigourney	34.8	-4.8	78	1	0	24	897	0	24	.84	-1.06	.77	9	T	T	17+	3	1	0
Washington	33.9	-5.6	79	1	-2	24	925	0	25	.99	-.95	.85	9	T	0		3	1	0
DIVISION	34.8	-5.5								.93	-1.05			.8					
STATE	33.1	-4.3								.59	-1.13			1.3					

HOURLY PRECIPITATION

IOWA
NOVEMBER 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
-7th-																											
BELLEVUE L/D 12			.06	.04					.04	.04	.02	.03	.01												.10		
BURLINGTON WB APT	//																								.14		
CASCADE		.03	.02						.01	.01															.07		
CENTERVILLE				.02	.02	.02		.03	.01	.01															.06		
DAVENPORT WB CITY			.03	.01																					.04		
GRINNELL																									.18		
IOWA CITY AP CAA	6																								.18		
IOWA C RALSTON CRK1		.02	.01	.10	.05																				.18		
IOWA C RALSTON CRK2		.01	.04	.10	.03																				.14		
IOWA C RALSTON CRK3			.02	.09	.03																				.15		
IOWA C RALSTON CRK4			.02	.08	.04	.01																			.16		
IOWA C RALSTON CRK5		.01	.03	.10	.02																				.29		
KEOKUK WBO											.01	.03	.10	.05	.05	.02	.02	.01							.20		
MARION 4NE		.10	.07	.02	.01																				.09		
MARSHALLTOWN																									.09		
MORSE		.01	.07	.01																					.14		
MORSE 1NE																									.14		
MORSE 4SSW			.02	.09	.02	.01																			.16		
MUSCATINE NO 1			.01	.03	.05	.02	.03																		.05		
OASIS		.03	.02	.08	.01																				.05		
TRAEER																									.05		
WALLIN 2WNW		.03	.01	.01																					.05		
WEBSTER CITY			.03	.02																					.05		
WHEATLAND																									.05		
-8th-																											
AMES 3SW							.01	.05	.02	.01															.09		
ANKENY 2SW								.05	.02		.01														.13		
ATLANTIC AP CAA	//						.01	.02	.01																.04		
BEAVER																									.11		
BELLEVUE L/D 12						.07	.03																		.45		
BOYER 5SE																									.10		
BURLINGTON WB APT	//																								.19		
CASCADE																									.49		
CENTERVILLE							.01	.03	.14	.11	.01														.30		
CHARLES CITY							.01	.03	.14	.11	.01														.10		
CHEROKEE			.04	.01	.04		.02	.02	.01																.05		
COON RAPIDS																									.65		
CORYDON																									.04		
COUNCIL BLUFFS 6 NE			.01				.01	.01					.01												.32		
DAKOTA CITY							.18	.09	.04	.01				.04	.06	.09	.04	.08	.09	.07	.06	.06	.03	.01	.63		
DAVENPORT WB CITY																									.58		
DERBY																									.26		
DES MOINES WB APT				.01	.04					.03	.02	.01	.06	.02	.05	.02									.29		
DEXTER																									.24		
DUBUQUE WB CITY														.02	.04	.09	.03	.05	.01	.03	.02				.06		
EMERSON 2N														.05	.09	.09	.01								.43		
EXIRA 6ESE		.02	.01	.03	.03	.09	.19	.10	.01																.08		
FOREST CITY				.03	.04	.01																			.28		
GRANVILLE 2E																						.28			.40		
GREENFIELD																									.58		
GRINNELL																									.07		
HAMBURG																									.10		
HAWARDEN 6NNE			.01	.06																					.12		
HORNICK						.01	.07	.01	.01																.25		
IDA GROVE 4SSE							.06	.06																	.61		
IOWA CITY AP CAA	6																								.55		
IOWA C RALSTON CRK1										.01	.01	.07	.11	.09	.05	.11	.06	.07	.03	.02					.59		
IOWA C RALSTON CRK2										.01	.02	.02	.07	.12	.09	.04	.12	.04	.02	.03	.01				.59		
IOWA C RALSTON CRK3										.02	.01	.01	.06	.12	.08	.04	.07	.09	.05	.04					.61		
IOWA C RALSTON CRK4										.02	.01	.04	.08	.13	.08	.06	.09	.06	.04						.22		
IOWA C RALSTON CRK5										.02	.17	.03													.05		
IOWA FALLS 1N							.02	.03																	.20		
IRWIN																					.08	.04	.01	.02	.02	.01	.48
KEOKUK WBO									.01	.05	.02	.11	.08	.07	.08	.06									.37		
KNOXVILLE 2W									.03	.04	.07	.09	.06	.01	.06	.01									.09		
LAMONI AP CAA 4WNW				.02	.02	.04	.01	.05	.02	.18	.18	.12	.05												.60		
LARRABEE																									.13		
LENOX			.01	.02	.04	.04	.02																		.90		
LITTLE ROCK									.02	.02	.07	.12	.19	.13	.11	.16	.07								.05		
MARION 4NE																									.05		
MARSHALLTOWN							.04																		.02		
MASON CITY AP CAA	6																								.23		
MINEOLA 3SW																									.58		
MISSOURI VALLEY					.02									.04	.08	.06	.02	.03							.77		
MONONA																									.51		
MORSE																									.50		
MORSE 1NE																									.52		
MORSE 4SSW									.02	.03	.06	.11	.10	.04	.10	.04									.10		
MOUNT AYR 2N									.02	.01	.01	.01	.08	.10	.03	.07	.05	.05	.04	.03	.02				.75		
MOUNT PLEASANT							.07	.01	.02																.60		
MOVILLE														.03	.07	.12	.09	.07	.14	.11	.08	.02	.01	.01	.60		
MUSCATINE NO 1														.04	.08	.10	.07	.04	.08	.07	.03	.07			.56		
NORTH ENGLISH									.01	.09	.23	.14	.06	.03											.60		
NORWICH 2E SCS FARM									.02	.01	.02	.05	.13	.09	.04	.08	.06	.08	.02						.69		
OASIS									.02	.01	.07	.10	.10	.10	.09	.11	.08	.01							.08		
OTTUMWA AP CAA	6		.01	.02	.03	.02																			.20		
REMSEN							.04	.11	.04	.01															.15		
RINGSTED								.03	.09	.03															.48		
ROCKWELL CITY								.06	.11	.21				.08	.02	.05	.03	.02	.03	.01					.36		
ST ANSGAR 2S									.03					.04	.15												

HOURLY PRECIPITATION

IOWA
NOVEMBER 1950

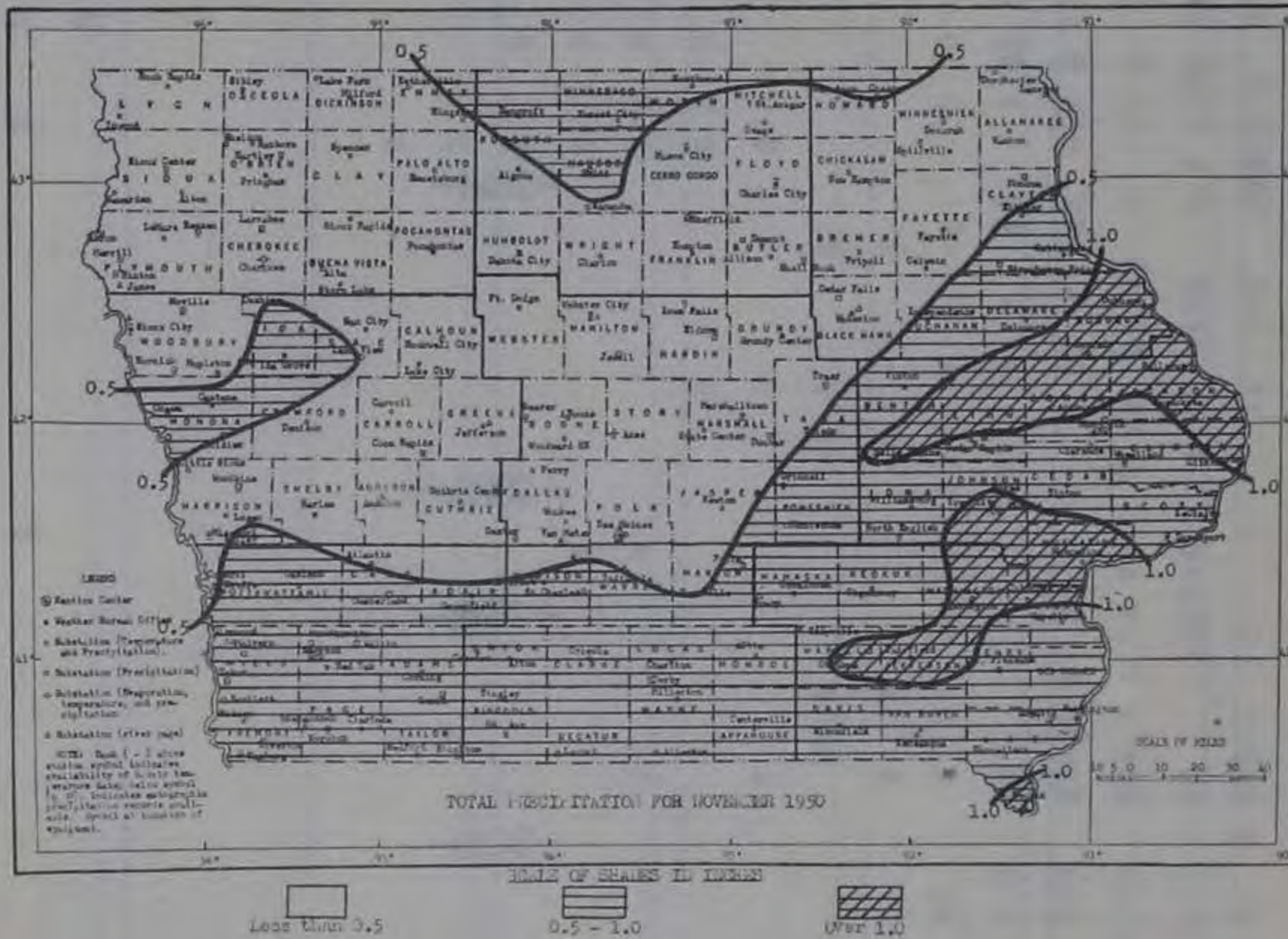
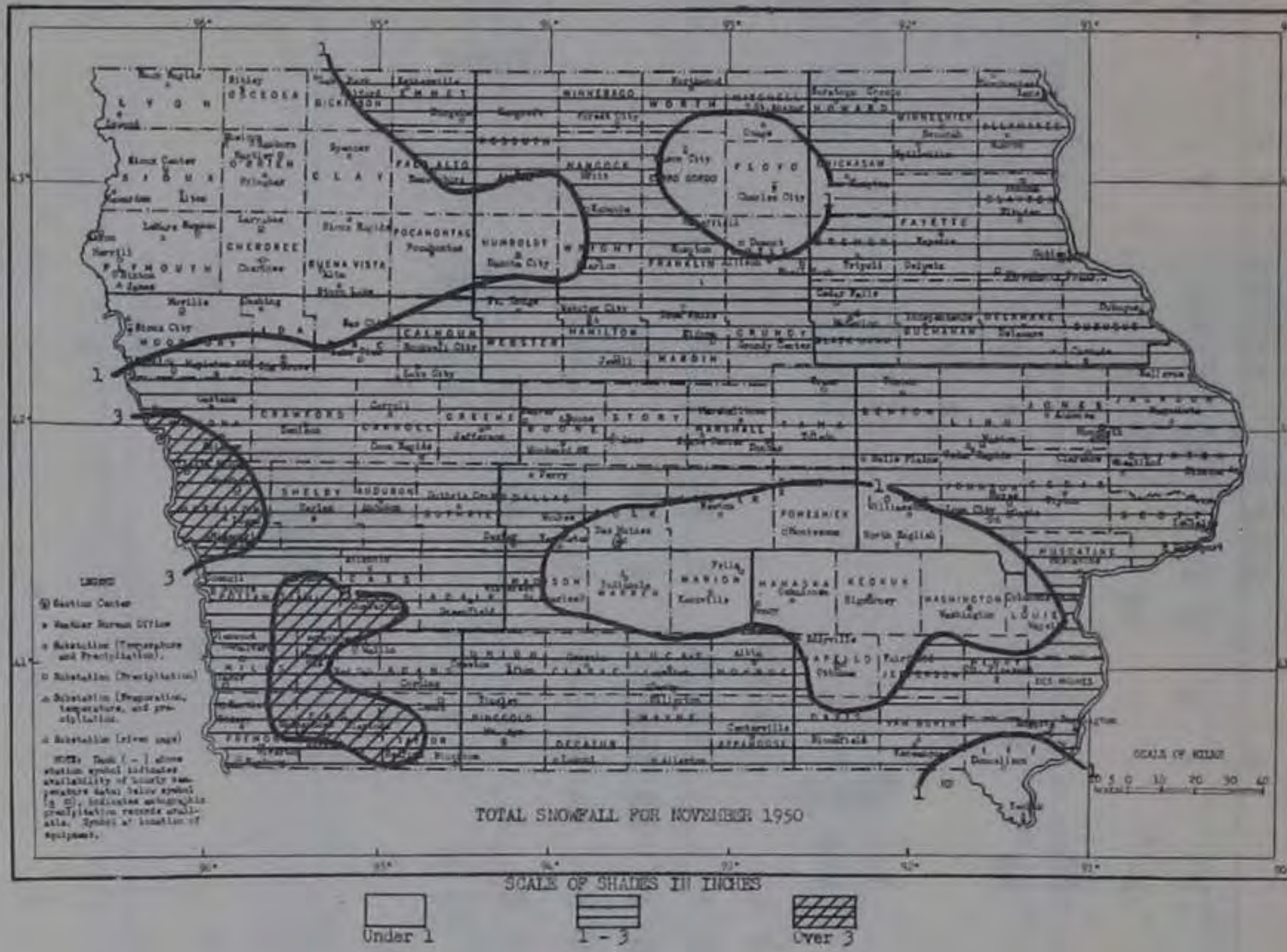
Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
WOODBINE 5SE																									.20
-20th-																									
IOWA CITY AP CAA	.01																								.04
KEOKUK WBO	.01	.02	.01																						.01
LITTLE ROCK	.01																								
-21st-																									
CHEROKEE																									.01
HAWARDEN 6NNE																									.06
IDA GROVE 4SSE																									.06
MOVILLE																									.04
SIoux CITY WB APT																									.01
SPENCER 1N																									.03
THURMAN 4S																									.03
-22d-																									
AMES 3SW																									.02
BELLEVUE L/D 12																									.13
BURLINGTON WB APT																									.09
CASCADE																									.08
CHARLES CITY																									.06
CHEROKEE	.05	.01																							.03
COON RAPIDS	.03																								.03
COUNCIL BLUFFS 6 NE																									.10
DAVENPORT WB CITY																									.12
DUBUQUE WB CITY																									.02
EMERSON 2N																									.07
FOREST CITY																									.05
GRINNELL																									.02
HAMBURG																									.02
IDA GROVE 4SSE	.01	.01																							.06
IOWA CITY AP CAA																									.13
IOWA C RALSTON CRK1																									.12
IOWA C RALSTON CRK2																									.14
IOWA C RALSTON CRK3																									.12
IOWA C RALSTON CRK4																									.02
IOWA C RALSTON CRK5																									.01
KEOKUK WBO																									.02
LAMONI AP CAA 4WNW																									.09
MARION 4NE																									.01
MARSHALLTOWN																									.06
MASON CITY AP CAA																									.05
MINEOLA 3SW																									.11
MONONA	.02	.01	.01	.01																					.57
MORSE																									.10
MORSE 1NE																									.08
MORSE 4SSW																									.01
MOUNT PLEASANT																									.13
MOVILLE	.01																								.01
MUSCATINE NO 1																									.06
NORWICH 2E SCS FARM																									.10
OASIS																									.02
REMSEN																									.04
RINGSTED																									.08
ROCKWELL CITY																									.02
ST ANSGAR 2S																									.05
SHEFFIELD																									.02
SHELL ROCK																									.02
SOLDIER	.01	.01																							.10
SPENCER 1N	.03																								.05
SPILLVILLE																									.08
STRAWBERRY POINT																									.02
TABOR 6NW	.02	.01	.02	.03																					.04
THURMAN 4S	.02																								.09
TRAER																									.15
WASHINGTON																									.04
WHEATLAND																									.03
-23d-																									
CASCADE																									.03
DAVENPORT WB CITY																									.02
DUBUQUE WB CITY																									.02
IOWA C RALSTON CRK1	.02	.01																							.03
IOWA C RALSTON CRK2	.01	.01																							.02
IOWA C RALSTON CRK3	.01	.01	.01																						.02
IOWA C RALSTON CRK4	.01	.01	.02																						.04
IOWA C RALSTON CRK5																									.03
KEOKUK WBO	.01	.01	.01																						.01
OASIS	.01	.01																							.01
STRAWBERRY POINT																									.01
WASHINGTON	.01																								.01
-24th-																									
AMES 3SW																									.01
KNOXVILLE 2W																									.02
LARRABEE																									.02
-25th-																									
AMES 3SW	.01																								.01
CENTERVILLE																									.03
CHARLES CITY																									.02
DAKOTA CITY																									.03
MASON CITY AP CAA																									.02
SAINT CHARLES																									.03
TRAER																									.04
WEBSTER CITY	.01	.02	.01																						.04
-30th-																									
HARTLEY 3S																									
IOWA FALLS 1N																									
NORTH ENGLISH																									
SIoux CENTER																									

See reference notes following Station Index.

PRECIPITATION AND SNOWFALL MAPS

IOWA
NOVEMBER 1950



See reference notes following Station Index.

DAILY TEMPERATURES

IOWA
NOVEMBER 1950

Table 5

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ALBIA	MAX MIN	75 45	56 35	42 35	44 20	65 29	57 44	50 37	42 32	33 25	27 18	36 22	39 27	51 34	63 55	76 26	56 26	47 18	61 34	54 25	29 10	51 21	52 30	40 4	13 2	24 8	38 18	31 15	27 14	46 15	38 21	45.4 24.5
ALGONA	MAX MIN	70 41	51 28	43 28	42 20	66 32	57 38	53 34	42 32	34 22	24 10	31 10	32 11	43 17	56 30	66 48	49 20	46 15	60 27	52 16	32 8	45 20	50 22	40 2	13 2	27 10	29 17	27 12	28 10	42 14	32 18	42.7 20.2
ALLISON	MAX MIN	65 45	48 29	40 33	41 18	62 26	54 39	51 35	40 33	33 25	26 12	36 9	34 16	45 18	28 28	64 48	48 25	40 21	58 26	51 18	28 9	44 20		29 0	12 4	24 8	21 15	25 12	25 10	40 10	31 16	39.8 20.7
ALTA	MAX MIN	62 41	53 30	40 30	49 20	67 33	56 35	54 33	41 30	37 21	26 8	29 12	39 14	45 17	58 30	62 46	46 27	54 20	60 30	50 17	34 6	48 18	50 29	39 4	16 2	35 12	38 16	36 13	38 13	42 14	54 17	44.6 20.9
ALTON	MAX MIN	61 43	56 32	45 19	49		56 32	51 28	36 32	27 23	29 14	31 13	48 12	60 32	27 27	51 29	59 18	64 22	60 25	50 7	54 20	57 28		18 5	40 3	43 15		42 15	44 15	40 11	34 11	47.3 19.5
AMES 3SW	MAX MIN	72 48	53 31	47 34	43 16	66 27	58 42	54 37	42 33	34 26	27 13	35 10	37 16	47 16	63 26	73 54	54 26	49 12	61 25	53 19	24 7	48 11	51 26	40 2	16 0	27 7	36 18	32 14	28 11	36 15	33 18	44.9 21.3
ANAMOSA 1NW	MAX MIN	75 47	50 35	44 26	43 24	59 19	56 40	46 35	45 30	40 25	28 18	35 8	38 21	46 17	51 25	73 48	61 34	37 23	54 25	50 32	34 10	45 15	38 28	33 1	10 5	25 1	32 16	28 14	29 17	36 8	33 18	42.5 21.7
ANKENY 2SW	MAX MIN	80 49	54 30	50 33		66 19	55 39	53 35	46 25	35 14	27 15	32		48 18	63 31	75 55	69 33	49 16			46 8	52 14	47 28	16 1			38 8	31 11	40 16	38 20	48.3 23.0	
ATLANTIC 1E	MAX MIN	69 46	58 28	50 30	43 19	65 32	57 38	52 38	42 34	35 24	30 12	37 15	41 19	54 17	63 31	68 51	55 31	54 16	60 27	51 20	30 3	51 17	53 29	41 3	20 2	39 9	41 16	40 19	37 12	43 11	41 18	47.3 22.2
ATLANTIC AP CAA	MAX MIN	58 30	56 24	38 22	44 18	64 32	54 34	51 33	42 30	31 21	28 11	38 15	40 15	50 16	62 31	68 40	45 13	53 12	59 22	46 20	29 2	48 23	51 30	35 4	17 3	37 16	40 19	39 19	36 13	43 9	40 15	44.7 19.7
AUDUBON 2S	MAX MIN	67 41	60 31	44 27	44 26	64 19	57 30	52 37	30 30	27 20	34 9	38 13	42 18	62 20	65 31	49 49	42 26	59 36	49 15	27 3	42 16	50 30	40 1	6 2	36 16	37 15	37 16	35 10	42 16	43 24	44.1 21.7	
BANCROFT	MAX MIN	70 41	49 28	44 30	38 17	71 32	60 39	56 33	46 31	34 23	25 10	30 9	32 9		57 15	65 29	55 44	46 25	59 13	50 28	31 16	41 8	50 22	41 4	13 4	24 3	27 16	26 11	31 9	44 16	35 15	43.1 19.3
BEDFORD 1N	MAX MIN	77 48	58 35	52 30	45 28	65 32	69 37	48 40	45 30	32 20	27 15	36 16	39 19	57 24	62 35	73 53	53 31	53 22	59 32	54 27	29 8	54 30	51 7	42 30	10 7	38 4	41 8	42 12	37 21	40 13	40 19	47.6 24.7
BELLE PLAINE	MAX MIN	75 46	50 32	43 34	44 19	62 22	58 41	48 38	42 31	34 27	29 15	36 10	39 19	47 21	56 29	74 52	59 30	40 22	57 28	51 24	26 9	44 14	40 24	32 3	12 1	25 7	33 18	28 14	26 15	40 11	35 17	42.8 22.4
BELLEVUE L AND D 12	MAX MIN	76 47	50 38	47 25	43 28	58 20	55 39	50 32	45 39	41 31	34 24	40 16	45 30	52 25	66 34	64 50	64 39	40 26	54 34	50 39	39 12	47 18	41 20	34 5	23 3	34 0	32 17	30 14	31 29	46 17	39 18	43.4 25.4
BLOOMFIELD 2N	MAX MIN	83 53	58 40	45 31	45 20	63 30	58 35			33 25	27 18			48 30	63 48	76 33	53 17	48 33	60 32	52 10	49 32	43 21	37 7	12 0	27 5	30 15	38 20	31 10	46 12	39 12	42 20	46.0 23.5
BOONE	MAX MIN	74 45	50 34	42 30																52 32	52 18	32 8	48 20	50 23	14 0	29 10	37 21	33 13	31 12	39 20	42 20	
BRITT	MAX MIN	78 51	54 35	42 28	43 33	62 32	69 39		47 33	32 22	25 10	32 8	33 10	43 17	54 32	65 49	61 22	43 11	55 29	50 25	30 7	42 18	49 26	42 2	12 3	25 6	27 15	25 10	28 7	39 14	36 16	42.9 21.0
BURLINGTON WB APT	MAX MIN	81 46	53 38	45 32	44 25	62 41	58 39	48 32	46 26	34 18	28 15	35 25	41 15	49 15	58 34	74 50	51 21	45 17	58 33	56 28	28 14	46 17	36 24	32 3	10 0	23 3	33 19	28 16	28 14	42 14	40 21	43.7 23.7
CARROLL	MAX MIN	65 41	57 26	51 29	45 18	65 30	58 38	55 33	44 30	35 20	25 10	35 16	45 15	48 15	64 34	65 48	52 30	52 16	61 28	52 15	27 4	47 18	51 26	44 1	16 0	33 10	39 17	36 15	35 12	42 15	37 18	46.0 20.9
CASCADE	MAX MIN	75 44	50 36	42 28	45 27	58 20	55 42	46 35	42 30	36 28	28 17	35 8	40 23	42 18	51 26	69 48	58 35	35 20	53 28	49 28	28 12	45 17	33 18	31 0	14 5	25 2	30 18	31 16	30 20	35 11	32 14	41.4 22.2
CASTANA 4E	MAX MIN			41 28	44 23	69 32	58 38	53 35	42 31	32 21	28 8	32 15	37 18	46 19	61 36	60 42	50 28	54 22	61 30	56 18	20 2	48 16	52 33	43 2	15 1	35 11	36 14	37 17	35 13	42 20		44.0 22.1
CEDAR RAPIDS NO 1	MAX MIN	76 47	50 36	43 33	43 20	60 25	56 42	47 38	43 32	35 28	26 17	36 10	37 22	47 22	54 32	74 53	61 34	39 25	55 29	53 27	27 11	45 16	36 23	32 2	12 2	25 6	33 18	28 16	29 18	39 12	33 20	42.5 23.7
CENTERVILLE	MAX MIN	78 51	56 34	49 35	45 20	65 26	59 43	48 39	43 31	32 24	27 16	37 15	41 22	58 26	64 32	76 56	67 35	48 17	61 33	57 29	32 11	53 18	52 24	42 7	14 2	28 6	40 19	35 17	31 12	46 16	39 21	47.4 24.6
CHARITON 3E	MAX MIN	80 50	56 32	48 36	43 18	65 24	58 44	48 36	45 30	33 24	27 14	37 12	40 18	52 18	64 25	76 55	69 35	47 15	61 34	58 30	30 9	53 12	55 20	49 5	14 0	29 5	40 17	37 18	32 14	48 20	40 20	47.8 22.8
CHARLES CITY	MAX MIN	63 38	49 31	37 25	40 19	59 32	53 39	50 36	40 29	22 13	35 12	33 16	42 22	53 30	64 44	44 27	40 22	55 30	49 28	28 14	48 10	43 21	31 2	11 2	25 2	29 11	23 18	23 13	25 12	38 9	26 17	39.2 20.9
CHEROKEE	MAX MIN	58 42	54 26	42 30	45 20	68 32	52 34	55 31	39 30	30 22	27 6	30 12	38 13	46 15	60 32	62 39	44 20	54 19	62 29	48 18	32 5	48 23	49 32	40 4	17 1	37 14	38 17	38 14	38 10	42 14	33 15	44.2 20.3
CLARINDA	MAX MIN	78 47	58 30	50 30	43 18	73 30	60 36		45 37	38 30	23 15	14		40 17	59 20	65 32	75 50	56 30	54 17	60 28	61 21	32 7	57 18	52 25	43 5	18 8	38 19	40 22	43 12	38 13	46 19	49.7 22.6
CLARION	MAX MIN	66 43	52 24	41 31	42 12	66 29	57 37	52 35	41 33	24 23	29 11	33 10	24 11	29 13	33 32	44 51	58 22	45 13	59 27	51 18	31 7	35 16	50 17	39 1	13 3	23 5	28 14	26 10	28 7	39 12	29 14	41.8 19.2
CLINTON NO 1	MAX MIN	78 48	52 38	50 33	48 30	59 25	59 43	50 37	44 35	37 28	29 21	37 12	41 27	48 24	52 28	67 48	58 36	41 22	56 28	38 16	49 18	34 22	30 2	13 4	23 2	30 20	33 18	31 20	35 16	37 19	43.7 25.0	
COLUMBUS JUNCTION	MAX MIN	79 50	53 37	45 30	44 23	64 21	59 40	50 37	45 32	33 28	28 21	38 11	39 22	50 20	58 31	76 54	70 35	42 25	59 32	53 35	36 12	48 10	37 21	32 5	11 1	25 6	34 19	32 16	28 20	43 11	38 19	45.0 24.1
CORNING 1W	MAX MIN	65 45	55 31	50 29	43 20	64 31	58 40	50 38	42 31	33 21	28 13	38 16	39 16	51 21	63 34	71 51	53 31	54 20	60 31	50 20	29 6	52 19	52 29	39 3	17 1	36 8	39 18	39 21	36 14	43 15	39 21	46.3 23.1
COUNCIL BLUFFS 5NE	MAX MIN	78 47	56 29	52 31			71 38	51 40	43 36	36 25	32 13	38 18	40 23	50 17	67 34	63 56	57 30	55 18	60 30	50 20	30 3	51 20	54 28	46 3	19 5	38 10	40 19	40 21	39 12	39 13	40 15	47.7 23.6
CRESCO	MAX MIN	71 42	51 32	48 30	45 14	57																										

DAILY TEMPERATURES

Table 5-Continued

IOWA
NOVEMBER 1950

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
DES MOINES WB APT	MAX MIN	69 39	54 32	41 30	42 20	65 34	56 43	52 38	43 31	31 23	26 15	36 16	37 19	51 23	62 33	75 43	45 25	49 21	61 31	51 19	26 8	47 22	52 31	42 2	15 1	28 10	38 19	35 15	31 13	42 19	36 20	44.6 23.2	
DES MOINES WB CITY	MAX MIN	69 40	56 35	41 30	43 22	66 35	57 44	53 39	44 31	30 23	26 16	36 17	38 21	50 23	63 33	75 42	46 24	50 19	62 31	51 19	27 10	48 22	53 33	43 4	16 2	30 13	40 20	37 17	31 14	42 19	36 23	45.3 24.0	
DUBUQUE L AND D 11	MAX MIN	72 46	46 39	40 32	38 28	53 27	52 42	50 35	45 33	41 27	31 20	33 11	34 25	41 20	50 30	64 44	64 33	39 33	51 29	50 33	37 12	43 17	38 21	31 -2	10 -7	22 1	33 19	29 17	27 21	27 14	28 19	40.6 24.0	
DUBUQUE WB CITY	MAX MIN	76 45	49 38	42 34	43 30	57 31	55 42	47 35	43 34	35 28	31 15	34 13	40 25	45 24	54 31	67 49	49 32	39 25	53 32	51 27	28 14	47 20	33 23	32 -1	14 -4	26 6	31 22	30 19	30 25	33 18	31 20	41.5 25.1	
ELKADER	MAX MIN		51 45	41 34	44 31	59 22	55 39	48 32	42 27	36 28	31 16	34 6	38 15	44 15	52 20	63 49	53 34	46 18	55 25	52 28				32 11	32 23	18 -3	26 -7	33 9	32 19	30 10	30 21	35 12	41.2 21.1
EMMETSBURG	MAX MIN	64 43	49 29	41 32	45 20	63 30	60 37	42 33	42 31	33 23	24 9	30 10	33 10	44 15	57 30	65 41	48 28	49 17	61 24	47 21	35 8	43 19	51 24	37 -3	15 -3	31 12	33 18	30 13	35 12	43 18	31 14	42.7 20.5	
ESTHERVILLE	MAX MIN	65 42	50 26	43 28	42 17	69 34	55 34	59 26	40 35	39 23	20 10	26 8	35 12	40 18	54 29	63 35	52 29	46 25	56 18	50 6	30 6	42 22	48 22	39 -4	9 -5	30 8	30 12	26 13	28 10	42 18	32 15	42.0 19.4	
FAIRFIELD	MAX MIN	79 46	54 29	45 31	43 22	62 32	57 44	51 38	44 30	27 26	16 16	15 15	24 24	38 34	48 60	60 50	51 28	42 33	54 33	54 28	28 12	48 14	35 12	5 5	10 1	24 6	37 19	29 16	28 15	43 16	40 22	43.9 23.2	
FAYETTE	MAX MIN	69 44	48 32	42 30	40 18	56 20	52 36	47 30	40 21	35 26	27 16	34 5	34 14	42 14	50 23	63 48	59 33	37 22	53 22	49 25	29 9	46 14	34 13	32 -2	12 -6	25 8	30 12	26 14	28 17	34 8	28 14	40.0 19.3	
FOREST CITY	MAX MIN	62 40	51 25	42 30	42 15	64 30	55 37	51 31	40 33	33 22	23 9	31 9	34 9	42 16	54 29	63 47	51 22	38 14	54 24	49 15	30 5	41 22	49 19	37 -5	12 -5	24 5	25 8	22 6	25 12	38 6	26 15	40.3 18.6	
FORT DODGE	MAX MIN	69 42	54 28	43 30	45 18	68 33	58 38	55 34	40 33	34 24	25 11	32 11	36 14	47 16	61 31	67 52	51 30	62 18	52 30	32 17	48 8	52 19	38 25	15 0	31 -1	34 10	32 18	32 13	40 12	30 18	44.5 21.7		
GLENWOOD 2E	MAX MIN	78 48	58 30	48 31	46 19	71 36	59 37	51 36	41 32	35 25	31 14	40 17	40 16	50 18	62 34	67 52		55 20	60 29	53 21	31 3	52 22	53 27	41 6	19 6	38 9	40 12	40 21	37 11	40 14	40 19	47.4 22.9	
GREENFIELD	MAX MIN	69 41	53 32	47 30	45 19	62 34	55 38	50 33	41 32	33 22	26 13	37 13	40 18	49 21	62 32	71 51	59 29	57 19	59 35	42 22	27 6	49 16	54 30	41 4	16 0	31 9	38 18	37 19	35 12	42 18	35 22	45.4 22.9	
GRINNELL	MAX MIN	75 42	53 28	43 33	43 16	64 23	56 40	50 37	45 30	35 24	28 12	37 9	37 18	47 20	69 29	74 52	58 24		60 26	51 20	24 6	46 12	34 25	13 -3	24 5	35 14	29 11	27 12	40 11	35 15	44.0 20.2		
GRUNDY CENTER 4NE	MAX MIN	73 47	50 30	41 32	41 18	63 25	55 40	46 35	42 32	33 25	26 13	37 9	34 15	45 29	58 50	72 28	54 20	39 27	59 20	28 5	45 12	43 20	35 0	13 -3	24 8	30 16	26 12	25 12	40 12	31 18	41.9 20.9		
GUTHRIE CENTER	MAX MIN	71 45	54 33	48 31	42 21	64 31	56 40	52 36	42 32	32 23	25 13	36 15	38 17	49 20	63 33	70 53	53 26	52 19	61 30	50 17	27 6	47 18	51 30	40 2	17 0	32 11	38 18	36 13	34 19	45 19	36 21	45.4 23.0	
GUTTENBERG L D 10	MAX MIN	78 46	50 40	45 38	43 33	58 29	56 45	48 37	43 34	37 28	31 18	35 12	38 24	44 22	50 30	62 48	59 33	37 24	53 30	52 28	32 13	47 21	35 22	35 -2	28 -4	25 7	32 20	29 18	30 23	28 17	42.4 25.1		
HAMPTON	MAX MIN	74 45	49 28	43 33	42 18	64 30	56 39	51 34	42 32	33 24	26 12	32 9	35 13	44 18	57 29	67 51	55 27	42 18	58 29	53 20	30 8	46 18	49 19	36 -2	10 -3	23 6	28 15	25 11	25 10	41 9	31 18	42.2 20.6	
HARLAN	MAX MIN	68 46	55 28	50 31	44 20	66 31	59 40	52 37	42 35	35 24	28 13	36 14	38 19	49 19	64 32	64 40	54 31	53 16	59 26	51 19	26 2	47 16	50 28	42 2	17 3	37 10	38 21	38 21	35 14	42 15	35 18	45.8 22.4	
HAWARDEN	MAX MIN	60 40	58 28	42 28	48 21	70 30	53 37	55 25	42 30	32 21	34 11	37 10	50 15	53 13	55 30	43 25	56 16	43 19	58 25	67 18	52 6	33 26	49 33	53 -1	33 2	18 17	37 11	35 16	40 11	38 15	45 17	35 17	46.0 19.8
IDA GROVE 4SSE	MAX MIN				43 29	66 32	58 38	55 35	40 32	33 22	26 8	35 12	37 14	42 17	59 33	62 46	51 30	53 18	60 29	52 17	26 4	50 18	44 31	33 -2	39 0	39 -1	40 17	35 16	32 12	36 16	42 16	36 18	44.7 20.0
INDEPENDENCE 2W	MAX MIN	76 44	49 30	44 34	41 19	62 24	55 38	47 34	42 30	36 24	28 14	36 8	35 18	45 17	53 25	71 46	63 31	37 21	55 25	50 22	26 7	44 11	32 11	32 -3	10 -5	25 7	31 15	26 13	28 15	36 11	34 15	41.6 20.0	
INDIANOLA	MAX MIN	78 48	56 31	45 33	45 17	67 30	61 41	53 41	43 34	35 25	30 14	38 15	41 17	51 21	62 32	77 54	60 33	49 17	62 32	54 23	29 7	53 17	55 29	41 3	16 1	30 8	40 18	37 15	33 10	45 19	40 20	47.5 23.5	
INWOOD 2W	MAX MIN		49 41	43 26		70 31	60 34	46 26	43 29	29 20	28 6	30 10	39 16	43 13	54 27	57 26	43 21	57 17	67 26	51 15	33 2	48 21	51 28	33 -5	17 -2	36 13	35 9	33 13	39 8	44 13	32 13	43.2 18.2	
IOWA CITY AP CAA	MAX MIN	75 47	53 30	44 34	43 18	63 18	57 36	49 36	44 32	34 27	27 11	37 8	39 19	48 21	57 26	75 49	49 30	41 25	60 25	50 26	26 12	49 14	36 23	31 0	13 -3	25 8	33 19	29 17	28 13	42 7	35 21	43.1 21.6	
IOWA FALLS 1N	MAX MIN	74 44	51 25	45 31	43 15	65 27	56 37	51 33	41 32	33 22	26 10	32 7	34 10	46 14	58 29	68 48	60 29	44 13	59 24	52 20	27 7	45 14	46 17	38 -4	13 -5	24 3	31 13	28 10	27 7	38 10	32 13	42.9 18.5	
JEFFERSON	MAX MIN	66 45	52 30	48 31	43 20	65 33	56 39	54 36	43 33	34 25	27 13	35 12	36 16	48 19	62 51	69 30	53 17	52 29	62 18	53 5	26 17	48 29	50 4	41 1	18 12	33 18	39 16	36 13	35 18	41 18	35 20	45.3 22.8	
KEOKUK L D 19	MAX MIN	84 60	78 42	53 38	48 27	60 35	60 44	51 39	48 29	34 25	31 20	37 31	43 31	51 32	59 33	69 43	43 25	44 36	58 17	58 16	31 17	46 16	39 27	23 4	17 4	26 12	37 18	31 17	32 19	42 21	45.9 26.9		
KEOKUK WBO	MAX MIN	82 48	54 42	46 35	46 27	65 32	60 47	49 41	48 34	34 26	28 20	39 19	44 29	54 32	63 35	76 52	52 27	47 23	61 40	59 26	29 15	50 23	38 31	32 4	10 2	23 1	38 20	32 17	27 16	44 19	44 28	45.8 27.0	
KEOSAUQUA	MAX MIN	80 53	58 37	47 30	46 24	64 22	60 45	50 39	45 30	34 27	29 20	39 15	43 23	51 33	64 33	77 56	70 32	45 16	61 34	54 30	30 13	51 15	41 24	36 9	12 3	27 6	40 20	33 17	29 16	45 12	42 22	46.8 24.9	
KNOXVILLE 2W	MAX MIN	80 46	57 33	47 33	43 19	65 29	57 44	59 43	52 33	36 25	28 15	37 16	39 19	51 27	63 35	77 56	63 34	48 21	61 33	54 25	28 9	50 19	53 29	44 4	14 1	26 8	38 18	34 15	29 10	44 17	40 20	47.2 24.5	
LAKE CITY	MAX MIN	65 39	52 27	49 28	43 15	66 31	55 36	55 35	40 30	33 22	27 9	33 10	36 12	46 17	62 27	65 47	50 29	53 19	62 27	51 15	26 1	47 13	49 29	42 -1	16 -2	33 10	38 12	36 10	36 10	42 18	35 18	44.8 20.0	
LAKE PARK	MAX MIN	67 39	46 26	39 28	44 20	71 32	60 35	54 25	46 32	32 20	6 7	8 8	14 14	30 30	44 28	54 25																	

DAILY TEMPERATURES

IOWA
NOVEMBER 1950

Table 5--Continued

Station	Day of month																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MARSHALLTOWN	MAX MIN	66 50	52 30	44 35	42 19	66 24	56 42	52 36	46 34	37 22	26 13	39 9	37 15	48 20	61 28	74 52	52 33	44 16	61 26	54 32	32 8	47 13	48 24	36 4	13 0	24 7	33 20	26 13	25 10	40 8	38 19	44.0 22.1
MASON CITY 3N	MAX MIN	62 41	52 27	40 31	41 15	63 33	54 36	52 33	41 32	33 23	23 11	33 9	32 12	45 18	54 26	66 47	51 25	40 21	57 26	50 16	31 7	42 20	47 17	30 -2	11 -3	24 6	27 14	23 10	24 8	38 12	27 17	40.4 19.6
MASON CITY AP CAA	MAX MIN	56 33	51 25	37 21	42 13	64 32	52 34	50 33	40 28	28 20	22 7	33 7	33 11	42 14	54 27	64 39	39 22	37 20	55 24	47 12	29 7	42 17	48 18	25 -4	11 -4	23 7	26 14	21 9	25 8	37 12	27 15	38.7 17.4
MILFORD 4NW	MAX MIN	59 38	47 27	41 29	45 17	72 30	58 33	54 28	40 28	30 18	23 5	28 10	33 8	44 13	56 29	60 31	44 23	49 14	60 26	48 13	33 4	43 19	48 26	37 -7	14 -5	32 11	32 15	31 10	36 9	43 16	39 13	42.6 17.7
MISSOURI VALLEY	MAX MIN	70 46	60 32	45 32	46 21	74 36	61 36	56 36	42 34	34 24	36 10	39 20	40 21	52 18	68 36	67 50	58 30	63 29	53 34	31 18	53 5	58 22	45 2	21 4	41 11	42 15	42 19	40 13	40 19	39 20	48.9 24.2	
MONMOUTH 4SW	MAX MIN	83 50	64 45	45 26	45 24	58 20	51 41	50 35	44 30	36 27	29 19	36 6	40 21	45 18	50 25	70 45	64 33	37 17	53 27	49 37	37 11	47 14	41 17	32 2	15 -8	24 -5	31 10	31 15	30 19	36 18	33 19	43.4 21.9
MOUNT Ayr 2N	MAX MIN	79 48	56 32	47 32	46 19	66 30	57 40	49 38	46 31	33 23	27 15	40 16	40 18	52 23	64 34	75 55	57 33	52 17	61 38	51 25	32 9	55 20	54 26	42 5	18 3	35 6	41 19	41 19	38 12	48 15	39 20	48.0 24.0
MOUNT PLEASANT	MAX MIN	80 50	72 38	45 31	45 22	63 21	57 43	48 38	45 30	33 25	28 17	37 11	40 22	50 23	58 30	77 54	66 31	45 21	54 31	52 32	34 12	48 12	38 24	32 5	11 0	25 6	36 18	31 16	28 16	45 13	38 21	45.4 23.7
MUSCATINE NO 1	MAX MIN	81 50	55 37	45 31	45 25	59 24	59 42	51 39	48 33	33 28	29 19	37 13	39 25	47 22	43 32	71 51	62 35	41 23	56 32	52 30	30 14	47 15	38 23	32 5	12 -2	24 4	32 20	30 17	30 20	40 13	38 22	43.5 24.7
NEW HAMPTON	MAX MIN	66 42	49 30	38 28	42 18	57 25	53 35	49 32	40 32	33 25	27 9	33 7	34 11	42 18	52 28	63 47	50 32	37 22	54 25	48 21	27 8	42 18	34 15	32 -4	11 -5	25 7	29 15	23 14	26 14	35 15	25 15	39.2 19.6
NEWTON	MAX MIN	76 44	56 31	44 35	44 18	65 30	58 42	53 40	45 34	35 26	26 14																	44.9 23.2				
NORTHWOOD	MAX MIN	70 43	52 28	43 32	42 15	62 27	56 38	52 30	40 31	31 23	25 10	32 9	33 10	41 12	50 26	61 41	54 28	37 21	53 24	48 18	29 6	39 20	46 17	36 -5	10 -5	22 4	26 13	20 9	23 7	35 11	29 15	39.9 18.6
NORWICH 2E SCS FARM	MAX MIN	73 47	57 32	52 31	45 21	68 31	62 41	48 39	42 33	29 23	41 15	39 14	52 19	65 22	70 35	55 52	53 21	59 30	51 20	31 7	53 20	38 5	55 30	38 5	19 4	37 9	40 18	41 22	37 12	41 15	41 21	47.6 24.0
OAKLAND 2E	MAX MIN	70 46	57 28	50 30	44 18	66 32	55 35	51 33	43 34	35 23	30 13	38 15	38 14	51 18	64 34	66 53	54 31	54 14	59 25	52 19	28 3	50 19	53 24	39 3	18 -1	38 7	39 19	40 20	37 11	41 11	41 13	46.7 21.5
OELWEIN 2SE	MAX MIN	75 45	49 31	44 33	41 18	62 22	56 39	48 34	43 33	35 25	27 15	35 7	35 18	40 13	68 28	64 47	37 33	55 21	48 27	28 9	46 14	34 15	32 -2	12 -5	25 8	32 16	27 14	27 16	37 8	37 14	41.9 20.7	
ONAWA	MAX MIN	65 45	57 29	44 32	48 23	73 33	56 34	56 33	45 34	34 24	33 9	34 17	40 19	49 17	63 36	62 46	51 30	58 21	62 33	49 18	26 -1	49 19	55 31	43 1	17 4	38 13	37 14	39 18	37 12	44 15	36 17	46.7 22.5
OSAGE	MAX MIN	68 43	49 29	43 31	43 17	50 26	42 37	32 32	25 24	32 11	32 8	32 11	44 16	51 29	62 38	56 31	38 21	54 25	49 19	29 8	41 19	36 17	33 -5	12 -5	24 6	29 14	22 10	25 9	35 7	31 15	40.2 19.2	
OSCEOLA	MAX MIN	75 49	55 34	48 31	40 20	65 30	58 42	49 39	43 31	34 23	27 14	37 14	39 20	52 24	64 33	75 53	57 32	51 19	61 32	54 22	34 9	53 18	55 19	42 4	17 1	32 9	40 19	37 18	35 11	46 20	40 23	47.2 23.8
OSKALOOSA	MAX MIN	75 45	57 33	47 35	45 20	65 24	60 44	52 39	42 33	28 26	38 16	39 14	50 20	62 21	77 32	57 56	48 30	62 14	55 31	28 27	51 11	50 15	38 25	14 5	25 1	38 7	32 17	29 14	43 15	38 18	46.0 23.3	
OTTUMWA AP CAA	MAX MIN	74 45	54 36	44 34	43 23	63 28	58 45	50 35	44 32	27 17	37 16	39 22	50 27	61 33	76 47	47 24	43 20	59 32	53 22	27 12	49 21	44 28	36 3	12 2	24 8	37 18	31 15	27 17	44 16	38 21	44.1 24.1	
PERRY 2SE	MAX MIN	73 46	55 26	47 31	45 14	68 30	56 38	53 34	45 32	34 24	26 13	36 13	38 15	42 15	65 23	72 35	55 32	52 12	61 24	51 17	26 6	41 12	42 25	37 2	17 0	32 8	39 18	36 15	34 11	42 15	38 17	45.3 20.1
POCAHONTAS	MAX MIN	70 21	47 26	47 26	43 19	69 34	54 39	55 32	41 32	33 24	25 9	30 8	35 12	40 15	56 30	66 45	45 29	52 15	62 20	50 12	33 7	42 12	51 24	44 -3	16 -3	34 12	37 17	34 13	36 10	40 18	30 17	43.9 19.1
PRIMGHAR	MAX MIN	71 40	50 28	44 29	44 21	68 31	65 34	53 31	52 29	32 20	26 12	30 9	36 15	44 16	55 31	59 37	54 26	53 20	60 32	57 5	32 18	45 29	48 -6	51 -2	15 11	34 15	37 13	35 11	43 11	41 18	45.6 20.2	
RED OAK	MAX MIN	63 49	58 29	50 31	44 18	65 32	61 38	48 35	43 36	36 24	30 15	38 16	40 16	50 18	63 36	68 31	55 16	54 30	59 22	48 8	32 18	45 27	49 5	35 5	17 9	33 18	36 24	35 11	41 13	40 16	47.0 22.7	
ROCK RAPIDS	MAX MIN	55 43	55 25	46 29	47 19	70 28	59 36	55 27	41 29	30 21	25 10	30 11	36 17	44 13	54 27	63 47	52 30	42 15	56 24	63 17	44 3	34 13	45 28	49 -1	35 -2	17 11	33 17	36 13	35 11	44 17	31 17	43.4 19.0
ROCKWELL CITY	MAX MIN	64 42	54 29	42 28	44 17	67 31	55 36	55 34	41 33	25 10	32 9	38 13	46 15	61 27	66 47	49 30	51 15	62 24	52 17	28 3	48 13	50 28	41 -1	16 -2	34 11	39 17	36 13	35 11	41 17	35 17	44.7 20.3	
SAC CITY	MAX MIN	69 41	57 31	39 30	43 22	68 35	55 38	57 38	48 33	33 22	27 10	32 12	39 15	49 19	56 29	65 48	49 28	54 20	61 30	50 18	28 6	47 18	50 32	39 -1	16 -1	33 13	38 18	35 16	37 15	42 19	36 19	45.1 22.4
SANBORN	MAX MIN	65 41	49 29	40 30	44 21	67 31	57 35	53 28	43 30	31 19	22 8	30 9	33 13	43 15	55 31	59 36	45 26	51 21	58 32	53 17	32 5	43 19	47 28	41 -5	14 -3	34 12	36 17	34 14	34 12	43 19	35 15	43.0 20.2
SARATOGA 2E	MAX MIN	65 42	48 29	43 31	40 15	57 21	53 35	49 27	38 30	32 24	26 13	29 5	32 9	39 12	48 24	60 44	50 31	36 22	53 22	48 20	26 6	40 13	34 11	33 -5	9 -7	22 6	27 14	21 12	24 10	32 12	25 4	38.0 17.7
SHELDON	MAX MIN	59 41	52 26	40 30	44 18	67 29	58 35	53 27	40 29	30 19	24 8	30 10	35 15	43 11	54 27	59 32	44 17	52 25	60 17	50 16	31 6	44 19	48 28	41 -5	15 -2	33 14	37 15	35 14	42 11	40 13	30 15	42.8 18.9
SHENANDOAH	MAX MIN	78 47	58 33	50 31	47 22	70 34	59 39	47 39	44 31	32 24	31 16	42 19	41 19	53 22	67 37	70 53	53 32	55 19	60 33	52 22	34 7	55 25	54 28	43 6	21 5	41 10	41 18	42 22	38 13	45 23	48.8 24.7	
SIBLEY	MAX MIN	73 41	52 21	40 30	42 15	63 27	62 35	49 22	49 30	32 20	25 6	27 7	35 11	35 10	47 30	46 23	45 26	46 14	57 22	56 17	30 3	41 19	43 25	42 -6	13 -7	26 11	27 16	27 13	34 9	36 10	36 7	41.4 16.9
SIDNEY	MAX MIN	81 48	57 38	51 31	47 34	72 38	69 42	53 40	44 31	33 24	39 15	40 19	40 22	52 25	68 36	68 54	57 31	55 29	60 34	55 24	32 9	55 24	53 32	44 5	21 6	39 13	41 17	43 24	39 15	43 21	41 26	49.7 26.9
SIGOUR																																

DAILY TEMPERATURES

Table 5-Continued

IOWA
NOVEMBER 1950

Station		Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
TINGLEY	MAX	75	58	44	44	64	56	47	43	31	29	38	39	52	59	75	51	52	60	50	30	53	53	37	18	29	41	40	38	47	39	46.4 23.5	
	MIN	45	31	31	16	29	40	38	31	22	15	12	19	23	39	51	33	21	30	21	8	18	29	5	3	9	19	19	11	17	20		
TIPTON	MAX	76	54	42	48	63	57	49	41	36	32	32	39	48	53	76	58	37	58	50	29	46	36	33	12	23	33	31	36	40	34	43.4 24.0	
	MIN	48	37	28	23	26	42	38	36	24	18	12	22	23	31	48	34	23	33	28	11	18	22	4	0	11	16	12	20	16	17		
TOLEDO	MAX	77	51	41	47	62	58	49	42	34	28	38	41	50	59	75	61	40	52	51	28	50	46	36	15	25	33	29	28	44	36	44.5 22.5	
	MIN	47	32	35	19	25	42	37	32	26	15	12	16	24	32	52	28	20	28	23	7	14	23	2	-1	9	16	13	15	13	19		
TRIPOLI	MAX	75	50	47	44	60	55	48	45	37	29	35	36	45	54	65	65	38	55	50	30	47	37	32	14	28	31	28	27	39	32	42.6 21.4	
	MIN	45	31	34	16	26	39	35	34	24	14	8	18	19	30	51	33	22	27	25	9	17	17	-3	-4	6	16	14	15	9	16		
VINTON	MAX	75	50	46	42	62	55	50	45	38	37	36	36	47	73	73	61	40	48													46.3 24.6	
	MIN	50	33	34	20	21	40	37	31	27	19	9	16	17	37	49	33	23	24														
WASHINGTON	MAX	79	53	46	45	63	60	51	45	34	30	36	40	50	57	76	65	43	59	53	31	51	38	32	13	25	36	28	27	43	39	44.9 22.6	
	MIN	49	35	32	20	25	42	38	30	26	17	11	20	22	27	53	27	22	28	30	10	12	20	4	-2	8	17	14	16	12	20		
WATERLOO AP 5NW	MAX	79	49	43	42	61	58	55	45	35	28	35	34	44	56	70	63	39	57	50	29	45	40	35	28	25	31	29	26	37	31	43.3 21.2	
	MIN	47	32	33	18	24	40	36	34	26	14	9	16	17	29	57	30	22	25	22	9	11	12	-1	9	0	12	14	11	11	16		
WAUKEE	MAX										30	28	38	38	50	62	75	58	50	61	51	26	48	45	45	17	30	39	37	31	42	36	42.6 21.0
	MIN										27	15	17	21	23	32	55	35	20	31	21	11	20	28	3	-2	12	21	17	14	17	24	
WAUKON	MAX	71	49	40	41	56	53	46	39	33	26	27	31	39	48	59	55	34	52	48	28	42	33	32	11	23	29	25	27	30	26	38.5 20.4	
	MIN	42	34	34	18	24	39	30	32	25	11	7	18	19	27	46	33	22	25	25	8	15	16	-6	-10	6	16	14	19	11	11		
WEBSTER CITY	MAX	71	52	44	41	65	57	53	44	34	26	32	34	45	60	69	52	48	61	54	26	47	55	38	14	25	31	29	28	39	30	43.5 20.9	
	MIN	43	25	32	13	28	38	36	33	25	13	11	13	13	29	51	24	13	25	19	7	14	21	0	-1	9	16	13	10	11	15		
WILLIAMSBURG	MAX	75	52	45	46	62	58	48	44	44	28	35	39	48	56	75	59	41	58	52	28	51	41	34	17							48.2 24.8	
	MIN	52	33	32	19	20	41	38	32	26	18	11	19	23	28	54	28	20	25	28	10	13	20	3	-2								
WINTERSET	MAX	78	58	49	48	66	60	52	45	35	31	37	42	52	63	75	62	52	62	54	34	54	56	45	19	35	40	40	37	49	40	49.0 23.2	
	MIN	49	32	32	17	30	37	38	33	24	12	15	17	20	33	54	33	17	32	20	5	18	29	4	0	12	18	17	10	18	20		
WOODWARD 7H	MAX	76	55	49	43	67	60	53	49	35	27	35	38	48	63	72	45	50	61	56	35	46	50	43	13	30	36	33	31	40	37	45.9 24.7	
	MIN	47	30	33	26	32	39	34	25	13	13	25	30	33	41	33	26	30	29	13	19	30	3	0	8	19	15	11	16	29			

DAILY SOIL TEMPERATURES

AMES, IOWA

DEPTHS	TIME	Day of month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1 Inch	7AM	55	38	39	27	34	41	42	40	31	24	21	28	25	31	51	39	26	30	39	29	30	31	26	13	19	21	18	16	19	23	30.1 35.9 35.0	
	12M	56	51	43	37	49	48	49	43	32	29	30	31	32	42	58	40	32	42	38	30	32	33	21	18	24	27	25	29	30			
	7PM	53	50	39	35	49	47	46	36	32	28	31	31	32	49	54	35	36	46	33	29	32	34	15	17	24	27	25	30	30			
2 1/4 Inches	7AM	56	41	41	29	36	42	43	41	32	27	24	27	27	32	50	40	28	31	40	27	29	31	27	17	21	23	21	19	21	24	31.6 37.4 35.9	
	12M	57	52	44	42	50	50	49	43	35	31	31	32	35	42	57	41	35	42	38	30	34	36	25	22	26	29	27	26	30	30		
	7PM	54	50	41	38	49	47	46	38	34	30	31	30	34	49	53	36	37	46	33	27	32	36	20	20	25	28	26	26	30	30		
4 Inches	7AM	59	46	46	36	39	45	45	44	36	33	30	30	32	34	48	44	33	34	42	35	33	33	32	22	23	24	24	22	24	28	35.2 36.7 38.4	
	12M	57	50	46	40	44	48	47	44	36	32	31	32	33	37	51	42	34	38	40	34	34	35	30	24	26	27	26	27	29			
	7PM	57	53	44	42	50	49	49	42	37	34	32	32	37	45	54	42	39	44	38	34	35	38	28	25	27	29	28	28	30	30		
8 Inches	7AM	60	52	50	44	43	47	48	47	42	38	36	35	35	37	45	47	39	38	44	39	36	36	35	31	28	28	28	28	30	39.1 38.6 39.8		
	12M	58	51	49	43	44	47	48	46	40	37	36	35	36	37	47	45	39	39	42	38	36	36	35	30	28	28	28	28	30			
	7PM	58	53	48	45	48	49	49	46	40	37	35	35	38	42	50	45	40	42	42	37	36	38	34	30	29	30	29	29	30		30	
20 Inches	7AM	58	57	55	53	52	51	52	52	50	48	47	45	44	45	46	47	47	46	46	45	45	44	44	42	41	40	39	38	38	38	46.5 46.6 46.1	
	12M	58	57	55	54	52	52	52	51	50	48	47	46	45	45	46	48	47	46	46	46	45	44	43	42	41	39	39	38	38	38		
	7PM	58	56	54	52	52	52	52	51	49	48	46	45	44	45	47	47	46	45	46	45	44	44	42	41	40	39	38	38	38	38		
40 Inches	7PM	56	56	56	55	55	54	54	53	52	52	51	51	51	50	50	50	50	49	49	49	49	47	47	47	46	46	45	45	44	50.5 54.0 25.2		
	7PM	57	57	56	56	56	56	56	56	55	55	55	55	55	55	54	54	54	53	53	53	53	52	52	52	51	51	51	51	50			
	7AM	50	32	35	18	34	42	39	39	27	14	13	19	19	36	56	34	18	28	30	7	25	31	6	2	14	22	15	12	18		20	
4 Feet Above Ground	12M	50	49	37	39	60	52	49	40	29	23	33	34	43	54	68	35	42	54	28	20	43	47	7	10	24	33	27	26	38	30	37.5 32.5	
	7PM	49	48	35	30	50	46	41	34	27	20	31	29	33	60	54	27	37	53	20	12	33	36	2	11	22	29	21	24	32	29		

COUNCIL BLUFFS, IOWA

1 Inch	12M	63	58	41	45	48	56	50	40	35	35	39	38	42	56	59	50	48	53	38	37	48	51	28	29	38	39	40	39	35	35	43.8
2 1/4 Inches	12M	61	55	41	41	44	52	48	41	34	32	33	33	35	50	57	58	44	48	40	33	42	45	30	28	32	33	33	33	32	32	40.7
4 Inches	12M	59	53	43	42	43	49	47	43	37	34	34	34	36	44	53																

SNOWFALL AND SNOW ON GROUND

IOWA
NOVEMBER 1950

Table 7

Station	Snowfall SN ON GND	Day of month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Algona	SNOWFALL SN ON GND									T							0.3	T					T		T	0.3						
Ames 3 SW	SNOWFALL SN ON GND									T	T						T				1.8	T		T		T	T					
Atlantic CAA AP	SNOWFALL SN ON GND			0.8					T	T	T										0.8	T			T							
Burlington WB AP	SNOWFALL SN ON GND			T					0.6	T	T										T	T		1.3	T	T				T		
Castana 4 E	SNOWFALL SN ON GND			0.8					T	T	T				T						1.8	2	1	T		T						
Cedar Rapids No. 1	SNOWFALL SN ON GND									T	T	T												0.8	T	T	T	T	T	T	T	
Cherokee	SNOWFALL SN ON GND	T	T							T	T										T											
Clinton No. 1	SNOWFALL SN ON GND									T	T											T		0.5	0.1	T	T	T				
Council Bluffs 5 NE	SNOWFALL SN ON GND			T																		1.0	T									
Davenport WB City	SNOWFALL SN ON GND								0.3	T	T	T	T	T								T		1.0	0.4	T	T	T	T	T	T	
Decorah	SNOWFALL SN ON GND																							2.2	2	1	T	T	T	T	T	
Denison 1 S	SNOWFALL SN ON GND		T	T										1.0								1.0	1	T								
Des Moines WB AP	SNOWFALL SN ON GND			T					T	T												0.7	T	1		T	T	T	T			
Dubuque WB City	SNOWFALL SN ON GND								T	T	T							T				0.3	T		1.5	0.3	T	T	T	1	T	
Fort Dodge	SNOWFALL SN ON GND									T	T							T				1.0	1		T	T	T	T				
Grinnell	SNOWFALL SN ON GND																							0.5	T	T	T	T				
Guthrie Center	SNOWFALL SN ON GND			1.0							T											0.8	1	1								
Iowa City CAA AP	SNOWFALL SN ON GND								T	T	T												T		1.0	T	T	1	1	1	1	T
Iowa Falls 1 N	SNOWFALL SN ON GND									T								0.3					1.0	1	T	T	1.0					
Keokuk WB City	SNOWFALL SN ON GND									T	T	T											T	T		0.5	1	T	T	T		
Lamoni CAA AP 4 WNW	SNOWFALL SN ON GND			T					2.0	0.5	0.2		T	T	T							T	T		T	T	T	T				
Maquoketa 5 E	SNOWFALL SN ON GND								T	T	T												T		2.0	1	1	1	1	1	1	T
Marshalltown	SNOWFALL SN ON GND																						1.0	1								
Mason City CAA AP	SNOWFALL SN ON GND									T	T							T						T	T	T	0.2	T	T	T	T	
Norwich 2 E SCS Farm	SNOWFALL SN ON GND			1.0					3.0	2	1												T	0.5	T							
Oelwein 2 SE	SNOWFALL SN ON GND								0.1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Osceola	SNOWFALL SN ON GND			T					T	T															T		T					
Oskaloosa	SNOWFALL SN ON GND										T													T	T		T	T				
Ottumwa CAA AP	SNOWFALL SN ON GND								0.3	T	T	T	T									T		0.1	T	T	0.1	T	T	T	T	
Rock Rapids	SNOWFALL SN ON GND			T						T	T															T	T					
Saratoga 2 E	SNOWFALL SN ON GND											T													1.5	2	1	1	1	1	1	1
Shenandoah	SNOWFALL SN ON GND			0.5					3.0	2	1	1	T										0.5									
Sioux City WB AP	SNOWFALL SN ON GND			T	T					T	T	T											0.3	T		T		T				
Spencer 1 N	SNOWFALL SN ON GND																						0.5	T								

See reference notes following Station Index.

STATION INDEX

1954
NOVEMBER 1950

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Akron	0888	Plymouth	1 43 49	98 33	1153	6P		Orlan C. Moore	3	Missouri Valley	5584	Harrison	3	41 33	95 54	1068	7P		S. William Sorensen	3 3 4 5	
Albia	0114	Monroe	6 41 02	92 48	949	5P		Arthur L. Freed	3 3 5	Honmouth 4 SW	5622	Jones	12	42 03	90 55	870	7P		Arnold Winkler	3 3 4 5	
Algona	0133	Kossuth	6 43 04	94 14	1300	7P		Harry H. Nolte	3 3 5 7	Monona	5630	Clayton	14	43 03	91 23	-	-	-	Ers. Anna M. Weiler	3 3 4	
Allison	0157	Butler	6 42 48	92 47	1060	7P		D. Tellinghousen	3 3 5	Montezuma	5650	Poweshiek	10	41 35	92 31	-	-	-	Rob't G. Fleming Jr.	3 4	
Alta	0173	Buena Vista	20 42 40	95 18	1513	7P		F. Edna Allen	3 3 5	Morse	5732	Johnson	10	41 44	91 28	-	-	-	Margaret R. Miller	3 4	
Alton	0181	Sioux	7 42 59	96 01	1305	7P		W. S. Slagle	2 3 5	Morse 1 NE	5737	Johnson	10	41 45	91 28	-	-	-	Lawrence J. Wall	3 4	
Ames 3 SW	0205	Story	21 42 00	93 39	1004	7P		Charles W. Brown	2 3 4 5 6 7	Morse 4 SW	5742	Johnson	10	41 41	91 28	-	-	-	Hazel Furumister	3 4	
Anamosa 1 SW	0213	Jones	27 42 07	91 18	873	7P		State Reformatory	2 3 5	Mount Ayr 2 W	5769	Ringgold	9	40 44	94 14	1214	6P		H. L. Corneliann	3 3 4 5	
Ankeny 2 SW	0241	Polk	6 41 43	93 38	-	5P		State Reformatory	2 3 5	Mount Pleasant	5798	Henry	21	40 37	91 32	730	6P		A. W. Patterson	3 3 4 5	
Atlantic 1 E	0364	Cass	16 41 24	94 59	1110	6P		Ray L. Faccolly	2 3 5	Noville	5823	Woodbury	11	42 29	98 04	-	-	-	Joseph H. Hahaar	3 4	
Atlantic AP CAA	0369	Cass	16 41 24	95 02	1102	MID		Airways Com. Sta.	2 3 4 5 7	Muncatine No. 1	5837	Muscataine	14	41 26	91 03	680	7P		F. J. Bauerbach	2 3 4 5	
Audubon 2 W	0385	Audubon	16 41 43	94 57	1297	6P		Ralph E. Kibby	2 3 5	Muncatine No. 2	5842	Muscataine	14	41 25	91 03	546	7P		Robert H. Hagy	3	
Augusta	0389	Des Moines	21 40 46	91 17	522	5A		Glen Wood	3	Nashua 2 NW	5873	Floyd	4	42 39	92 34	900	7P		Herbert E. Swinton	3	
Bancroft	0463	Kossuth	6 43 18	94 13	1200	7P		Cuy D. Hart	2 3 5	New Hampton	5852	Chickasaw	27	42 04	92 18	1156	7P		Loddy Hedricka	3 3 5	
Bartlett 3 E	0493	Fremont	26 40 53	95 44	-	6P		R. L. Kilpatrick	3	Newton	5895	Jasper	21	41 42	93 04	950	7P		Al A. Schuel	3 3 5	
Beaumont	0549	Boone	6 42 02	94 08	-	6P		Archib E. Sparks	3 4	North English	6076	Iowa	4	41 29	92 05	780	7P		Earnest E. Andrews	3 3 5	
Bedford 1 N	0576	Taylor	28 40 41	94 44	1215	6P		H. J. Chambers	2 3 5	Northwood	6103	North	4	43 27	93 13	1322	7P		Charles A. Walker	3 3 5	
Belle Plaine	0630	Boone	16 41 34	92 17	855	7P		Walter C. Habe	2 3 5	Norwich SCS Exp Pa 2 X	6119	Page	23	40 45	93 12	1332	7P		Earl Conr. Service	2 3 4 5 7	
Bellevue Lock & Dam 12	0609	Jackson	14 42 16	90 25	603	7P		U. S. Engineers	2 3 4 5	Oakland 2 E	6151	Pottawattamie	16	41 18	95 23	1150	6P		Ward D. Relaske	3 3 5	
Blackton 2 S	0745	Taylor	18 40 36	94 29	1081	5P		Glenn A. Cobb	3	Oasis	6180	Johnson	10	41 43	91 24	-	-	-	Ed Raders	3 4	
Bloomfield 3 W	0753	David	8 40 47	92 36	825	7P		Mrs. Leo Foster	2 3 5	Oelwein 2 NE	6200	Fayette	27	42 39	91 54	-	-	-	Radio Station KOEL	3 3 5	
Boone	0807	Boone	6 42 04	93 53	1126	6P		E. G. Kolb	2 3 5	Opawa	6243	Monona	15	42 02	96 08	1050	7P		W. J. Oliver	2 3 5	
Britt	0923	Hancock	10 43 04	93 49	1234	6P		Rev. B. A. Hunt	2 3 5	Osceola	6305	Mitchell	6	43 17	92 46	1170	6P		L. J. Lamprecht	3 3 5	
Burlington WB Airport	1063	Des Moines	14 40 47	91 07	695	MID		U.S. Weather Bureau	2 3 4 5 7	Oskaloosa	6316	Clarke	6	41 02	93 46	1136	6P		Ray A. Kerou	2 3 5	
Carroll	1233	Carroll	20 42 04	94 32	1260	7P		Ben H. Schenkelberg	3 3 5	Ottumwa AP CAA 5 N	6389	Mahaska	8	41 17	92 40	813	6P		Cliff Bergstrom	2 3 5	
Carson	1245	Pottawattamie	16 41 14	95 35	-	6P		Glady M. Smith	3 4	Ottumwa	6391	Wapello	6	41 00	92 24	820	MID		Airways Com. Sta.	2 3 4 5 7	
Cascade	1257	Dubuque	12 42 18	91 06	840	7P		C. J. Nelson	2 3 4 5	Pella	6397	Marion	6	41 24	92 55	878	7P		Wilfred Kinnear	3	
Cassia 4 E	1277	Monona	11 42 04	95 49	-	7P		Bob Zimmerman	2 3 5 7	Perry 2 SW	6566	Dallas	20	41 51	94 06	975	7P		Eugene W. Haeftle	2 3 5	
Cedar Falls	1300	Black Hawk	4 43 32	92 27	873	7P		E. J. Cable	3	Plagah	6634	Harrison	15	41 50	93 55	-	-	-	Robert Haba	3	
Cedar Rapids No. 1	1319	Linn	4 41 59	91 39	813	7P		John T. Wurster	2 3 5 7	Pocahontas	6719	Pocahontas	8	42 44	94 40	1328	7P		Thomas A. McShan	3 3 5	
Cedar Rapids No. 2	1324	Linn	4 41 58	91 40	-	7A		C. W. Simon	3	Pringhar	6800	O'Brien	11	43 05	95 28	1517	6P		R. A. Ballard	3 3 5	
Centerville	1354	Appanoosa	5 40 43	92 53	1013	7P		Earl McIntire	2 3 4 5	Red Oak	6840	Montgomery	16	41 01	95 13	1077	9P		Clarence W. Totty	2 3 5	
Chariton 3 E	1394	Lucas	5 41 00	92 15	940	7P		Ellis Shaw	2 3 5	Red Oak 1 NW	6941	Montgomery	16	41 01	95 14	-	-	-	Mrs. E. W. Cosad	3	
Charles City	1402	Floyd	4 43 04	92 40	1013	MID		U.S. Weather Bureau	2 3 4 5 7	Sheldahl	6970	Plymouth	7	42 49	95 38	-	-	-	Municipal P & L Pl.	3 4	
Cherokee	1442	Cherokee	11 42 45	95 33	1358	7P		J. Earl Wirth	3 4 5 6 7	Shelton	7058	Emmet	6	43 18	94 30	-	-	-	Marvin A. Trees	3 4	
Clarence	1528	Cedar	4 41 53	91 03	-	7A		Ronald W. Harless	3	Shelton	7085	Fremont	16	40 41	95 35	930	7P		William Stubbs	3	
Clarksdale	1533	Page	17 40 44	95 01	1004	7P		Walter L. Weikland	2 3 5	Shelton	7147	Lyon	1	43 26	95 10	1341	7P		George Kaveling	2 3 5 7	
Clarion	1541	Wright	2 42 44	93 44	1170	7P		George Reeder	2 3 5	Shelton	7147	Lyon	1	43 26	95 10	1341	7P		George Kaveling	2 3 5 7	
Clinton No. 1	1635	Clinton	14 41 50	90 11	589	7P		Samuel W. Williams	3 3 5 7	Shelton	7147	Lyon	1	43 26	95 10	1341	7P		George Kaveling	2 3 5 7	
Clinton No. 2	1640	Clinton	14 41 50	90 11	-	7A		David M. Swift	3	Shelton	7147	Lyon	1	43 26	95 10	1341	7P		George Kaveling	2 3 5 7	
Columbus Junction	1731	Louisa	10 41 17	91 22	595	6P		Alice Best	3 3 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Cook Rapids	1793	Carroll	20 41 51	94 39	-	6P		Charles W. Smith	3 4	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Coring 1 W	1830	Adams	17 41 00	94 45	1300	7P		W. Earl Gibson	2 3 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Corydon	1848	Wayne	9 40 46	93 19	-	7A		Robert L. Stoffer	3 4	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Council Bluffs 8 NE	1888	Pottawattamie	15 41 20	95 49	-	6P		Mrs. H. O. Crane	3 4	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Council Bluffs 5 NE	1889	Pottawattamie	15 41 19	95 49	-	6P		Mrs. H. O. Crane	3 4	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Cresco	1954	Howard	23 42 22	92 07	1285	6P		Perry C. Crandall	2 3 5 7	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Creston Airport 3 NE	1962	Union	19 41 06	94 20	1312	7A		Guy D. Humphrey	2 3 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Cumberland 3 NW	2007	Cass	17 41 18	94 55	1225	6P		Midwest Airlines	2 3 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Cushing	2026	Woodbury	11 42 28	95 40	1350	7P		Carl E. Pollock	3	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Dakota City	2037	Humboldt	6 43 44	94 12	1133	7P		Walter G. Pfeiffer	3	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Davenport WB City	2069	Scott	14 41 31	90 34	579	MID		H. S. Brandgard	2 3 4 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Decorah	2110	Winnebago	24 43 18	91 48	559	7P		U.S. Weather Bureau	2 3 5 7	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Decorah 2 E	2112	Winnebago	24 43 17	91 47	880	7P		Philip M. Johnson	2 3 5 7	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Delaware 2 W	2136	Delaware	12 42 28	91 23	1083	7P		CLOSED	11-1-50	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Denison 1 S	2171	Crawford	4 42 00	93 27	-	7P		Clair E. Paris	2 3 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Derby	2195	Lucas	5 40 56	93 27	-	7P		E. M. Hugg	2 3 5	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Des Moines WB Airport	2203	Polk	6 41 32	93 39	954	MID		Lloyd A. Kirk	3 4	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Des Moines WB City	2208	Polk	6 41 35	93 37	800	MID		U.S. Weather Bureau	2 3 4 5 7	Sibley	7654	Osceola	1	43 24	95 43	1494	6P		R. D. Stewart	2 3 5	
Dexter	2240	Dallas	6 41 30	94																	

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

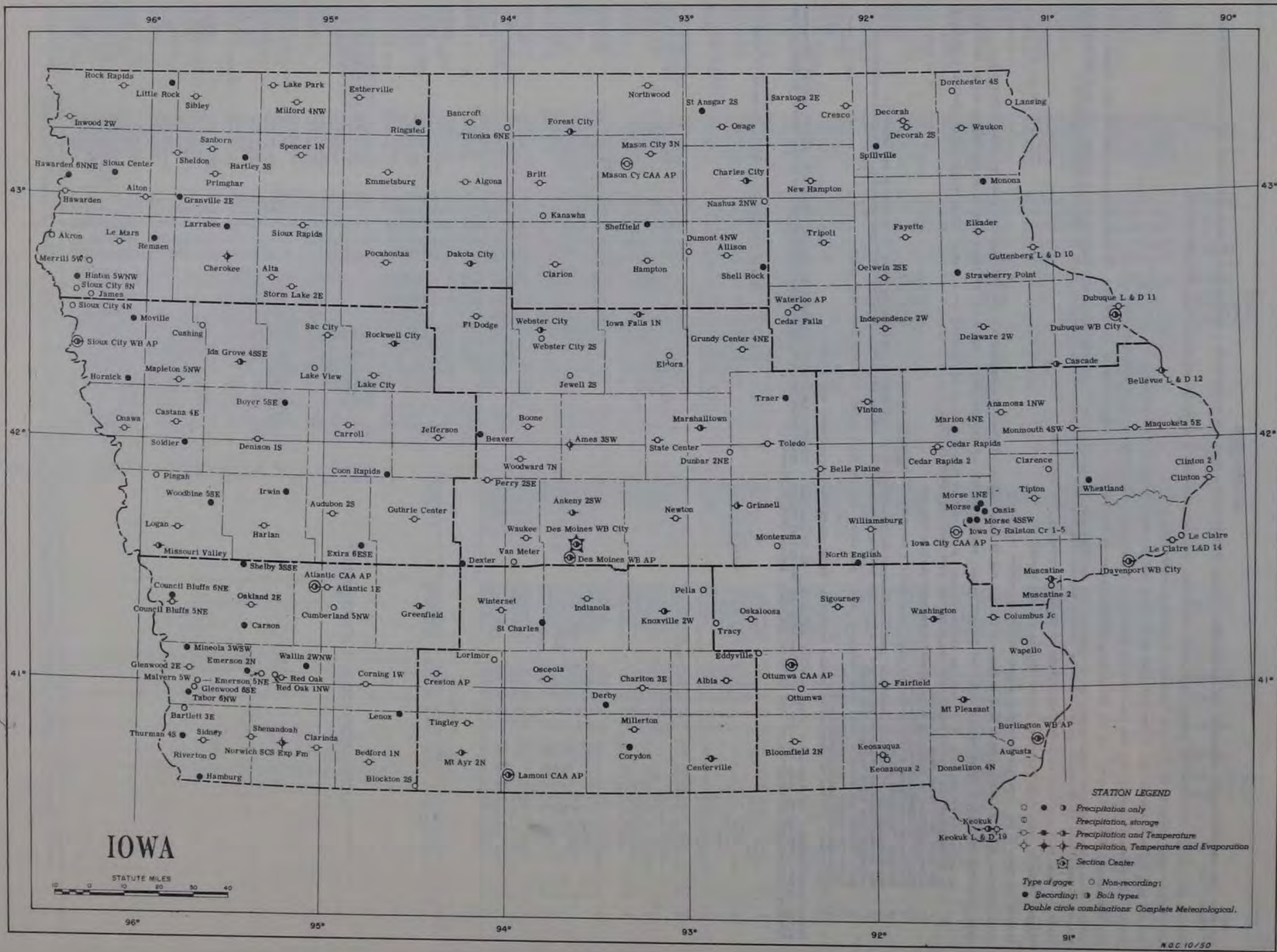
Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830 CST.

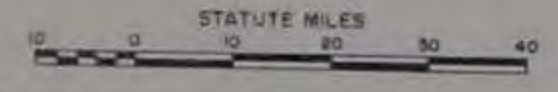
- No record in Tables 3, 4, 6, 7, and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates;
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record. Degree Day data, if carried for this station, have been adjusted to represent the value for the full month.
- R Daily values and monthly total from recording gage. All other data in Table 3 are from non-recording gages.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- SS This entry in time of observation column in Station Index means observation made near sunset.

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W.B.O., Kansas City, Mo. -- 1-16-51 -- 1110



IOWA



- STATION LEGEND**
- Precipitation only
 - Precipitation, storage
 - Precipitation and Temperature
 - ◆ Precipitation, Temperature and Evaporation
 - ⊙ Section Center
- Type of gage: ○ Non-recording;
 ● Recording; ○● Both types.
 Double circle combinations: Complete Meteorological.

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

DECEMBER 1950

Volume LXI No. 12



KANSAS CITY: 1951

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

The month of December 1950 was cold and dry. Temperatures for the month averaged 5.6° below the normal. It was the second coldest December in the past twenty years and the 17th coldest for the period of record beginning in 1873. The lowest temperature in the State was -36° at Decorah on the morning of the 27th. This low temperature had been exceeded once and equaled once during the period of December record. On December 29, 1917, a record of -40° was recorded at Washta in the northwestern section of the State, and a low temperature of -39° was recorded at Inwood on the same date. The low temperature of -36° was equaled on December 10, 1919, at Thurman in the southwestern section of the State.

Total precipitation for the State averaged three-quarters of an inch. During the 78 years of record, amounts of three-quarters inch or less were measured on 23 years. Normal or greater precipitation occurred only in the northeastern third of the State, with two inches or more reported from the extreme northeast. Snowfall varied from a trace in the extreme southwest to more than 24 inches in Chickasaw County in the northeast. As the month closed, snow in appreciable amounts lay on the ground only in the northeastern third of the State, with ten inches or more in the extreme northeast.

Snow that fell early in the month caused icy conditions on the highways in the northern counties, persisting in some sections the entire month. Early in the month, accidents caused by icy roads were responsible for six deaths in Iowa. Fuel requirements, as measured by degree-day data, were 13 per cent greater than normal. In the south-central section of the State, an area comprising approximately 20 counties, there was a pronounced water shortage in rural areas. Many farmers were hauling water for stock and for domestic uses. Water shortages were also reported from northwestern sections. In the central portion of the State, where snow cover had been relatively light, frost penetrated to a depth of 20 inches. In the northeast, where snow cover had been heavy, frost penetration was relatively shallow.

The month opened with a narrow ridge of high pressure and mostly fair weather predominating. On the 2nd, an extensive low pressure area developed south and southwest of Iowa, with widespread light snow over Iowa and heavier falls in the northeastern counties. This condition was succeeded by another alternation of high pressure ridges and low pressure troughs. The last towboat of the season passed Clinton on the 5th but was halted by ice below Davenport on the 7th. The barges were broken loose and floated southward on the 11th. On the 7th of the month, a disturbance moved northward up the Mississippi Valley, deepening and overspreading Iowa from the east. It caused milder weather and moderate to heavy snows in eastern Iowa, particularly the northeastern counties. On the following days, this storm continued northward into the western Hudson Bay region.

From the 10th through the 21st, there was a succession of high pressure ridges and low pressure troughs, with high pressure and cold weather predominant. There were frequent light snows during this period, but no outstanding snowstorm. On the 22nd, a deep low pressure area developed in western Canada which moved slowly eastward to the James Bay region on the 24th. This low pressure system, in conjunction with a high pressure system over the southeastern states, gave Iowa the most consistently warm period of the month. This warm period brought the State's high temperature of 62° to Clarinda on the 23rd.

The high pressure system which followed centered over Iowa on the 27th, and was responsible for the extremely low temperatures of that date. Minimum temperatures of 30 degrees below zero or lower were reported from several northeastern localities, with Decorah reporting the lowest temperature for the State, -36°. Temperatures moderated quickly with the approach of another low pressure trough, which in turn was followed by high pressure and cool weather. The month closed with a change to warmer weather as an extensive low pressure system developed over the mountain and western Plains States.--CEL

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

SUPPLEMENTAL DATA

IOWA
DECEMBER 1950

Station	Wind direction		Wind speed m. p. h.				Relative humidity averages - percent				Number of days with precipitation						Percent of possible sunshine	Average sky cover sunrise to sunset	Degree days 65° base
	Prevailing	Percent of time from prevailing	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	12:30a CST	6:30a CST	12:30p CST	6:30p CST	Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over			
Burlington WB Airport	NW	19	10.3	32	NW	14	81	81	71	79	11	4	1	0	0	0	16	47	6.8
Charles City WB City	-	-	6.1	23	S	31	-	-	-	-	6	8	4	0	0	0	18	42	6.4
Davenport WB City	-	-	-	-	-	-	-	-	-	-	9	5	5	0	0	0	19	-	-
Des Moines WB Airport	NW	20	12.3	47	NW	14	77	79	69	73	14	3	1	0	0	0	18	35	7.2
Dubuque WB City	-	-	5.4	17	E	1+	-	-	-	-	12	6	5	0	0	0	23	43	6.5
Sioux City WB Airport	NW	21	9.8	29	NW	5	76	79	66	71	12	5	1	0	0	0	18	43	7.3

See Table 2

COMPARATIVE DATA

Table 1

Year	Temperature			Precipitation			Year	Temperature			Precipitation			Year	Temperature			Precipitation			
	Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more		Average	Highest	Lowest	Average	Average snowfall	No. of days .01 or more	
1873	22.6	65	-10	2.51			1903	19.6	58	-27	0.41	3.7	4	1933	27.1	69	-30	1.05	2.8	5	
1874	24.0	60	-18	0.84			1904	23.4	67	-19	1.44	12.3	5	1934	21.5	48	-17	0.57	5.5	5	
1875	30.0	68	-18	2.06			1905	27.0	62	-11	0.52	4.2	3	1985	22.4	59	-19	0.95	7.6	5	
1876	11.9	56	-28	0.24			1906	25.7	65	-9	1.43	1.4	6	1936	28.7	65	-16	1.55	5.1	5	
1877	36.8	65	-11	2.18			1907	28.8	62	-9	1.00	4.7	5	1937	22.8	59	-11	0.74	5.4	6	
1878	17.2	52	-17	0.77			1908	27.2	67	-17	0.57	3.8	3	1938	26.3	56	-15	0.71	4.7	5	
1879	16.1	58	-35	1.40			1909	15.1	60	-26	2.18	13.7	11	1939	32.4	74	-9	0.62	4.2	4	
1880	16.1	55	-25	0.85			1910	23.4	57	-14	0.37	3.0	3	1940	28.4	68	-32	1.36	10.0	6	
1881	33.8	60	-10	1.24			1911	27.9	60	-24	2.57	12.6	7	1941	32.1	67	-15	1.91	9.5	7	
1882	21.0	54	-23	1.57			1912	29.2	64	-13	0.74	1.1	3	1942	20.3	53	-20	1.59	6.5	7	
1883	24.8	62	-24	1.03			1913	32.0	65	-13	1.02	1.3	4	1943	26.2	65	-13	0.52	1.1	2	
1884	16.2	59	-30	2.15			1914	15.7	63	-31	1.30	11.1	9	1944	20.6	47	-25	1.29	10.2	7	
1885	24.6	55	-22	1.45			1915	25.0	56	-10	0.69	4.6	5	1945	18.0	60	-24	2.03	10.6	9	
1886	14.4	55	-32	0.80			1916	18.7	67	-25	1.04	6.7	6	1946	29.5	73	-27	0.63	3.3	4	
1887	20.3	57	-25	2.17			1917	14.5	62	-40	0.56	6.7	6	1947	26.8	65	-13	1.47	3.1	4	
1888	28.6	66	-6	1.46			1918	32.7	68	-7	1.30	5.1	8	1948	25.4	66	-21	1.65	8.0	7	
1889	35.8	69	-2	1.06			1919	15.0	52	-36	0.54	5.8	4	1949	27.1	68	-22	1.07	3.5	5	
1890	28.5	68	-18	0.58			1920	26.4	65	-26	1.16	7.4	5	1950	18.8	62	-36	0.74	7.1	6	
1891	32.3	62	-14	2.41			1921	28.2	69	-22	1.02	2.9	4								
1892	18.9	68	-29	1.65	10.9	8	1922	24.0	65	-25	0.37	2.2	3								
1893	22.0	66	-21	1.31	7.6	7	1923	33.5	68	-21	0.76	4.4	4								
1894	30.1	73	-17	0.95	1.3	3	1924	15.4	62	-33	1.79	8.1	8								
1895	25.4	63	-16	1.63	4.1	5	1925	21.0	64	-25	1.30	10.6	5								
1896	30.8	66	-10	0.65	1.6	4	1926	21.9	58	-21	1.06	5.7	4								
1897	18.0	60	-25	1.65	15.9	6	1927	18.7	59	-22	1.04	4.4	5								
1898	18.1	60	-25	0.48	3.9	3	1928	28.7	57	-15	0.89	2.3	5								
1899	22.6	61	-19	1.61	4.3	5	1929	24.8	65	-13	0.39	3.8	5								
1900	26.9	63	-10	0.45	2.4	4	1930	26.7	65	-10	0.57	3.0	4								
1901	20.5	64	-31	0.93	5.4	6	1931	54.1	61	3	2.48	5.7	8								
1902	20.1	59	-20	2.23	12.9	8	1932	21.9	64	-27	1.44	5.5	5								
														Period	24.2			1.19	5.9		

See reference notes following Station Index.

Table 2

CLIMATOLOGICAL DATA

IOWA
DECEMBER 1950

Station	Temperature										Precipitation								
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	.01 or more	.25 or more	1.00 or more
NORTHWEST DIVISION																			
Alta	18.3	-4.4	45	23	-12	6	1441	0	31	.30	-.64	.18	2	3.5	4	5+	3	0	0
Alton	19.4M	-2.9	45	21+	-10	6	1439	0	31										
Cherokee	17.7	-5.1	45	23	-11	6	1458	0	31	.45	-.25	.16	5	4.0	3	5+	5	0	0
Emmetsburg	16.8M		45	23	-13	27	1487	0	31	E .86		.42	1	8.0	4	5+	6	1	0
Estherville	15.6M	-4.9	42	23			1523	0	31										
Hawarden	20.5	-2.4	54	23	-11	6	1372	0	31	.32	-.38	.17	2	3.0	2	2+	8	0	0
Inwood 2 W	17.8	-3.7	52	23	-13	6	1457	0	31	.32	-.39			3.6	4	7+	6	0	0
Lake Park	15.9	-4.6	45	23	-14	27	1517	0	31	.36	-.39	.16	3	5.5			3	0	0
Le Mars	21.0	-2.3	52	23	-10	6	1358	0	31	.37	-.37	.15	1			6+	4	0	0
Milford 4 NW	14.9	-5.7	43	23	-15	27	1546	0	31	.40	-.40	.12	2	5.0	4	7	6	0	0
Pocahontas	16.6	-6.0	44	23	-13	27	1493	0	31	.08	-.80	.04	2	2.0	2	7	2	0	0
Pringhar	17.4	-4.6	45	23	-13	6	1472	0	31	1.00	-.30	.36	7	4.6	4	5	3	0	0
Rock Rapids	17.8	-2.8	51	23	-10	6	1458	0	31	.29	-.41	.12	2+	3.0	3	7+	3	0	0
Sanborn	16.9	-3.5	47	23	-13	6	1487	0	31							25			
Sheldon	16.9	-4.0	48	23	-12	6	1486	0	31	.26	-.44	.10	2	4.4	3	5+	5	0	0
Sibley	14.9	-5.1	41	23	-14	27	1546	0	31	.30	-.45	.17	2	4.0	4	6	4	0	0
Sioux Rapids	16.1	-6.4	45	23	-14	27	1511	0	31	.80	-.05	.40	5	6.0	6	5+	3	2	0
Spencer 1 N	14.3M	-7.1	43	23	-15	27	1566	0	31	.35	-.50	.11	1	3.1	3	6+	6	0	0
Storm Lake 2 E	17.5	-5.2	45	23+	-12	6	1466	0	31	.28	-.50	.22	2	5.3	4	6+	4	0	0
DIVISION	17.1	-4.6								.42	-.35			4.3					
NORTH CENTRAL DIVISION																			
Algona	16.3	-5.6	43	23	-14	27	1503	0	31	.98	.04	.20	1	7.4	3	7+	10	0	0
Allison	14.7M	-7.2+	45	23	-20	27	1555	0	31	.98	-.17	.25	5	11.5			6	1	0
Bancroft	15.9	-4.6	40	23	-19	27	1516	0	31	1.93	1.08	.53	1	15.6	8	7	9	4	0
Britt	15.0	-6.2	40	23	-20	27	1548	0	31	1.42	.64	.32	7				10	1	0
Charles City	13.4	-7.5	40	23	-25	27	1594	0	31	1.54	.34	.41	25	20.5	11	7	12	3	0
Clarion	14.7	-7.7	43	23	-20	27	1554	0	31	.70	-.25	.20	5	5.0	4	7+	6	0	0
Dakota City	15.9M	-7.1	44	23	-13	27	1512	0	31	.31	-.49	.12	5	4.0	4	7+	4	0	0
Forest City	13.2	-7.3	41	23	-25	27	1599	0	31	E1.01	.05			11.2	7	5+	5	2	0
Hampton	15.3	-7.1	42	23	-18	27	1536	0	31	1.26	.11	.41	5	13.5	7	5+	9	2	0
Mason City 3 N	14.3	-6.8	42	23	-26	27	1565	0	31	1.20	.25	.24	6+	18.8	10	7	10	0	0
Mason City AP CAA	12.8	-8.3	41	23	-26	26+	1614	0	31	.90	-.05	.25	25	12.3	8	14	12	1	0
Northwood	13.2M	-7.1	41	23	-25	27	1603	0	31	1.26	.03	.35	7	14.0	10	19+	12	1	0
Osage	12.8	-8.1	39	23	-30	27	1616	0	31	1.83	.63	.60	7	17.1	12	25+	10	3	0
DIVISION	14.4	-7.1								1.18	.16			12.6					
NORTHEAST DIVISION																			
Cascade	17.1		42	23	-29	27	1478	0	31	1.35		.41	1	12.3	7	25+	8	2	0
Cresco	12.4	-7.7	38	23	-28	27	1627	0	31	2.09	.85	.48	25	21.3			6	5	0
Decorah	13.1		40	23	-36	27	1601	0	31	1.52		.47	26	19.9	12	26+	11	2	0
Delaware 2 W	15.1	-7.3	38	2	-25	27	1539	0	31	1.84	.49	.65	2	12.5	10	11+	8	3	0
Dubuque Lock & Dam	15.3	-9.7	39	23+	-30	27	1536	0	31	1.36	.09	.31	2	14.1	10	26+	11	2	0
Dubuque WB City	18.3	-6.7	44	23	-21	27	1444	0	31	1.52	.25	.40	25	13.7	7	26+	11	1	0
Elkader	15.2	-7.0	43	23	-31	27	1537	0	31	2.03	.68	.67	2	18.5	14	26	9	2	0
Fayette	13.6	-8.1	40	23	-34	27	1591	0	31	2.15	.85	.58	2	20.0	14	26+	9		0
Guttenberg Lock & Dam	17.5	-7.5	43	23	-27	27	1466	0	31	1.78	.33	.67	2	18.1	14	26+	12	3	0
Independence 2 W	14.2	-9.0	40	24	-25	27	1568	0	31	1.95	.77	.70	2	14.1	10	7	8	3	0
New Hampton	12.3M	-8.7	38	23	-26	27	1630	0	31	E1.30	.15	.30	25	24.5	24	26+	9	2	0
Oelwein 2 SE	15.2M	-8.2	42	23	-28	27	1539	0	31	2.14	.94	1.40	6	10.9	7	7+	8	2	1
Saratoga 2 E	10.4		37	23	-34	27	1690	0	31	1.07		.60	25	18.0	12	7	6	1	0
Tripoli	15.5		42	23	-27	27	1531	0	31	2.17		.84	6	14.7	11	8+	8	3	0
Waterloo AP 5 NW	16.1	-7.2	42	2	-26	27	1509	0	31										
Waukon	14.4	-7.1	38	23+	-24	27	1562	0	31	.58	-.72			14.0	10	25+	6	0	0
DIVISION	14.7	-7.7								1.66	.42			16.4					
WEST CENTRAL																			
Audubon 2 S	20.3M	-4.2			-13	6	1377	0	31										
Carroll	19.9	-4.1	53	23	-9	6+	1390	0	31	.34	-.62			2.8			3	0	0
Castana 4 E	20.8		54	23	-8	6	1364	0	31	.16		.10	2				3	2	0
Denison 1 S	20.6	-3.8	53	23	-10	6	1371	0	31	.23	-.49	.12	5	1.7	1	2+	2	0	0
Guthrie Center	21.3	-4.4	54	23	-10	6	1346	0	30	.11	-.93	.05	5	1.5	2	6+	3	0	0
Harlan	22.8	-1.8	55	23	-9	6	1303	0	31	.36	-.48	.16	2	2.5	2	5+	4	0	0
Ida Grove 4 SSE	19.7	-3.9	50	23	-12	6	1396	0	31	.31	-.56	.17	2	6.0	6	5+	4	0	0
Jefferson	20.9	-4.0	52	23	-8	6	1358	0	31	.30	-.65	.20	5	3.0	3	6+	2	0	0
Lake City	19.3	-4.6	52	23	-10	6	1412	0	31	.15	-.80	.06	2	1.8	2	5+	3	0	0
Logan	23.5	-2.3	55	23	-10	6	1280	0	31	.43	-.44	.20	2	3.5	3	7	3	0	0
Mapleton 5 NW	21.0M	-3.2	54	23	-11	6	1357	0	31								6+		
Missouri Valley	25.3	-1.2	60	23	-10	6	1223	0	30	.43	-.45	.18	2	2.6	2	6+	5	0	0
Onawa	22.9	-2.5	59	23	-10	6	1299	0	31	.30	-.60	.15	2	3.7	3	5+	5	0	0
Rockwell City	18.2	-5.3	50	23	-11	6	1444	0	31	.38	-.58	.17	5	3.6	3	6+	5	0	0
Sac City	19.6	-3.8	50	23	-10	6	1399	0	31	.34	-.54	.17	5	3.0	3	6+	4	0	0
Sioux City WB Airport	20.9	-1.1	58	23	-11	6	1362	0	31	.34	-.46	.11	1	2.8	2	5+	6	0	0
DIVISION	21.1	-3.4								.30	-.59			3.0					
CENTRAL DIVISION																			
Ames 3 SW	18.5	-5.9	46	23	-12	27	1432	0	31	.36	-.69	.11	6	4.7	4	7+	6	0	0
Ankeny 2 SW	20.0		56	23	-11	27	1389	0	31	.28		.11	5	3.0	3	7+	4	0	0
Boone	19.6	-5.4	52	23	-7	27	1404	0	31	.56	-.38	.18	5	4.3	4	7+	8	0	0
Des Moines WB Airport	20.1	-5.5																	

CLIMATOLOGICAL DATA

IOWA
DECEMBER 1950

Table 2—Continued

Station	Temperature										Precipitation								
	Average	Departure from normal	Highest	Date	Lowest	Date	Degree days	No. of days		Total	Departure from normal	Greatest day	Date	Snow, Sleet, Hail			No. of days		
								Max. 90° or above	Min. 32° or below					Total	Max. depth on ground at obsn.	Date	01 or more	25 or more	100 or more
Newton	20.2M	-5.3	46	23	-11	27	1380	0	31	.95	-.20	.26	2	7.0	4	7+	9	1	0
Perry 2 SE	19.6	-5.4	55	23	-11	27	1403	0	31	.30	-.72	.17	5	3.3	3	6+	5	0	0
State Center	20.0	-4.5	42	23	-8	27	1388	0	31	.60	-.81	.12	6+	8.9	4	7+	9	0	0
Toledo	18.1	-6.6	44	23	-18	27	1451	0	31	1.34	-.14	.52	2	8.5	2	6+	10	2	0
Waukee	21.7	-4.2	58	23	-9	27	1334	0	31	.30	-.76	.10	5+	3.0	2	6+	3	0	0
Webster City	16.9	-6.0	45	23	-17	27	1487	0	31	.36	-.54	.09	5+	6.5	6	11+	6	0	0
Woodward 7 N	21.7	-3.3	50	23	-13	27	1335	0	30	.27	-.73	.17	5	4.0	3	6+	4	0	0
DIVISION	18.8	-5.8								.56	-.54			5.2					
EAST CENTRAL DIVISION																			
Anamosa 1 NW	16.0	-8.2	41	23	-27	27	1513	0	31	1.20	-.15	.32	2		11	26+	8	2	0
Belle Plaine	17.4	-7.0	46	23	-20	27	1469	0	31	1.37	-.06	.45	2	13.2	9	7	9	3	0
Bellevue Lock & Dam	18.2	-7.3	45	23	-26	27	1444	0	31	1.60	.30	.52	26		6	11+	11	2	0
Cedar Rapids No. 1	17.6	-7.2	44	23	-19	27	1464	0	31	1.31	.19	.47	2	9.3	7	7+	11	3	0
Clinton No. 1	18.9	-8.4	42	23	-19	27	1423	0	31	E1.26	-.29	.46	2	12.3	6	26+	11	2	0
Davenport WB City	20.0	-7.4	44	23	-7	27	1385	0	31	1.14	-.30	.31	2	7.1	4	11	10	2	0
Iowa City AP CAA	16.6	-8.8	42	23	-16	27	1497	0	31	1.13	-.28	.48	1	7.1	6	19+	10	1	0
Le Claire Lock & Dam	19.6	-7.3	43	24	-11	27	1400	0	31	1.14	-.30	.41	3		5	12+	8	1	0
Maquoketa 5 E	17.5	-6.5	58	24	-18	27	1466	0	31	1.61	.27	.57	2	14.6	11	19	8	2	0
Monmouth 4 SW	17.3M	-7.2	40	23	-27	27	1473	0	31						5	25+			
Muscataine No. 1	19.5	-7.5	43	23	-10	27	1402	0	31	.49	-.91	.18	6	6.5	4	7+	5	0	0
Vinton	16.9M	-7.0	42	23+	-24	27	1484	0	31	1.65	.35	.50	2	11.5	9	4+	5	3	0
DIVISION	18.0	-7.3								1.26	-.10			10.2					
SOUTHWEST DIVISION																			
Atlantic 1 E	23.0	-2.6	58	23	-11	6	1294	0	31	.25	-.76	.15	5	2.4	2	5+	4	0	0
Atlantic AP CAA	21.1	-4.5	57	23	-13	27	1354	0	31	.35	-.66	.19	5	3.0	2	5+	7	0	0
Bedford 1 N	23.2M	-3.6	58	23	-9	6	1275	0	31							6+	2	0	0
Clarinda	24.9	-.9	62	23	-10	6+	1236	0	31	.05	-.98					2	6+	2	0
Corning 1 W	23.1	-3.3	56	23	-11	6	1293	0	31	.07	-.94	.06	5	1.1			2	0	0
Council Bluffs	24.8		57	23	-10	6	1237	0	31	.08		.06	5	1.1			2	0	0
Glenwood 2 E	24.7M	-2.8	59	23	-8	6+	1241	0	31	.10	-.72	.10	5	1.0			1	0	0
Greenfield	20.6M	-5.4			-11	6	1391	0	31	.27	-.82	.17	5	7.0			3	0	0
Norwich 2 E SCS	24.8	-1.1	57	23	-10	6	1239	0	31	.05	-1.00	.05	5	2.0	2	5+	1	0	0
Oakland 2 E	23.1	-2.5	56	23	-10	6+	1294	0	31	.19	-.66	.08	2+		1	5	3	0	0
Red Oak	24.0	-1.6	57	23	-10	27	1267	0	31	.09	-.88	.06	5	1.5	1	5+	3	0	0
Shenandoah	25.7	-1.3	58	23	-9	6	1209	0	31	.17	-.88	.15	5	1.8	2	5	2	0	0
Sidney	27.4		58	23	-9	6	1233	0	31						1	5+			
DIVISION	23.8	-2.5								.15	-.84			2.3					
SOUTH CENTRAL DIVISION																			
Albia	21.0	-6.0	52	23	-10	27	1356	0	31	.92	-.38			4.2	4	11	6	1	0
Centerville	22.2	-5.1	53	23	-10	27	1317	0	31	.50	-.86	.27	2		4	5+	4	1	0
Chariton 3 E	21.1	-5.9	55	23	-13	27	1354	0	31	.36	-.71	.18	1	5.0	5	6+	3	0	0
Indianola	21.6	-5.0	56	23	-10	27	1336	0	31	.70	-.45	.27	5	6.0	6	6	4	1	0
Knoxville 2 W	21.8	-5.3	56	24	-8	18+	1330	0	31	.63	-.67	.38	2	4.4	4	6+	4	1	0
Lamoni AP CAA	22.1		56	23	-8	6+	1323	0	31	.28		.16	1	3.7	3	5+	3	0	0
Millerton	23.0M	-4.5	52	23	-11	27	1294	0	31					3.0	3	6	3	0	0
Mount Ayr 2 N	23.5	-3.8	57	23	-11	27	1280	0	31	.28	-.88			3.4	3	6+	3	0	0
Osceola	22.8	-4.0	58	23	-7	6+	1298	0	31	.47	-.63	.22	2	2.3	2	5+	2	0	0
Tingley	22.9	-4.5	58	23	-10	6+	1298	0	31	.21	-.89	.17	5						
Winterset	23.2	-3.6	60	23	-10	27	1292	0	31	.17	-.86	.11	7	3.0			2	0	0
DIVISION	22.3	-4.7								.45	-.70			3.9					
SOUTHEAST DIVISION																			
Bloomfield 2 N	18.6M	-8.7	49	23	-12	27	1434	0	31	.55	-.88	.28	5	3.5	3	5	3	1	0
Burlington WB Airport	20.2	-7.5	49	2	-9	18	1379	0	31	.34	-1.28	.14	6	5.6	4	6+	5	0	0
Columbus Junction	19.2	-8.2	44	23	-15	27	1413	0	31	.65	-.78	.43	2		6	11	6	1	0
Fairfield	20.3	-6.9	47	23	-11	18+	1379	0	31	.35	-1.05	.15	5	6.0	3	6+	5	0	0
Keokuk Lock & Dam	22.4	-7.8	48	24	-3	18+		0	31	.58	-.88	.15	6+	6.9	4	11+	8	0	0
Keokuk WB City	22.3	-7.9	54	2	-7	18	1318	0	30	.44	-1.02	.12	6	4.0	3	7+	8	0	0
Keosauqua	21.8	-7.2	50	23	-8	18+	1333	0	31	.60	-.81	.20	2		4	7+	6	0	0
Mount Pleasant	19.5M	-8.5	46	23	-12	18	1405	0	31	.90	-.56	.60	6	5.0	5	11	3	1	0
Oskaloosa	20.5	-6.1	52	23	-13	27	1372	0	31	.90	-.40	.36	2	6.3	5	7	6	1	0
Ottumwa AP CAA	19.2	-9.1	48	23	-9	27	1409	0	31	1.04	-.21	.56	1	5.1	4	7+	8	1	0
Sigourney	19.2	-7.5	44	23	-14	27	1415	0	31	.89	-.42	.44	2				9	1	0
Washington	19.0	-7.5	44	23	-13	27	1418	0	31	.87	-.53	.28	2	5.5	5	7+	7	1	0
DIVISION	20.2	-7.5								.68	-.73			5.3					
STATE	18.8	-5.6								.74	-.35			7.1					

See reference notes following Station Index.

DAILY PRECIPITATION

Table 3

IOWA
DECEMBER 1950

Station	Day of Month																															Total			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Akron	T	.10			.05		.03				T		.02	T																				.20	
Albia	*	.65			.05	.13	.03	T			T			T																			.92		
Algona	.20	.15	T		.18	.08	.12	.04	T					T	.03																		.98		
Allison	T		T		.25	.15	.20	T						T	.08																		.98		
Alta	.02	.18			.10									T																			.30		
Alton						T	T																												
Asen 3 SW		.06			.09	.11	.05	T		T				.02																				.36	
Asen 3 SW R		.06			.09	.11	.05							.02																				.36	
Anamosa 1 NW		.32			.15	.26	T		T	T				.01																				1.20	
Ankeny 2 SW					.11	.10	.02	T																										.28	
Ankeny 2 SW R					.08	.03	.08																												.22
Atlantic 1 E		.06			.15	T	T																											.25	
Atlantic AP CAA	.03	.02		T	.19	.04	.02																											.35	
Atlantic AP CAA R //	.05	.03		*	.19	*	.06																											.38	
Audubon 2 S					.18	.01	T																												
Augusta		.06			.22	.20	.25	.05																										.73	
Bancroft	.53	.12			.35	.10	.35																											1.93	
Bartlett 3 E																																			
Beaver	R	.03	.07	.04	.15	.05	.04																												
Bedford 1 N					.20																														
Belle Plaine	T	.45			.30	.33	.11	T	T	T				.09	T	.01	.01	T																1.37	
Bellevue L & D 12		.45	.02		T	.18	.20	.09																										1.60	
Bellevue L & D 12 R	.35	.11	.02		.13	.18																												1.49	
Blockton 2 S				.12																														.12	
Bloomfield 2 N		.15			.28																														.55
Boone		.06			.18	.12	.05	T																										.56	
Boyer 5 SE R	.04	.10			.17	.10	.03																											.46	
Britt	.15		.03		.18	.10	.32																											1.42	
Burlington WB Airport R //	T	T	T		.06	.14	.04		T	T																								.34	
Carroll		.11			*		.23																											.34	
Carson R	.08	.02			.07																													.20	
Cascade	.41				.13	.19	.06																											1.35	
Cascade R	.36	.08			.16	.30	.04																											1.52	
Castana 4 E		.10	.06		T	T																												.16	
Cedar Falls	T	.28			.28	.33	.22																											1.39	
Cedar Rapids No. 1	.47	T	T		.05	.25	.31	.01	T	T				.03	.05	T	T	.01	T														1.31		
Cedar Rapids No. 2	.45				.03	.23	.27	.02	T	T				.03	.04	T	T	T																1.19	
Centerville	.27		.08		.13	.02																												.50	
Centerville R	.26	.04			.07	*	.19							.05																				.61	
Chariton 3 E	.18				*	.18																												.36	
Charles City	R	.04	.05		.26	.38	.16	T	T	T				.08	.01	T	.04	T																1.54	
Cherokee	.10	.05	.11		.16	.03								T	T	T	T	T															.45		
Cherokee R	.12	.10		.04	.12	.05																												.45	
Clarence		.46					.24																											.82	
Clarinda					*	.05	T																											.05	
Clarion	.10	.10			.20	.10	.10																											.70	
Clinton No. 1		.46			.02	.20	.08		T					.05	.01	T	.02	.02	T														1.26		
Clinton No. 2		.28	.13		T	.11	.05	.13		T				.03	.02			.06																1.19	
Columbus Junction		.43			.03	.12	.03																											.85	
Coon Rapids R	.05	.03			.10	.05								.03																				.26	
Corning 1 W			T		.06	T																												.07	
Corydon R	.39				.13	.06	.01																											.59	
Council Bluffs 6 NE R	.05	.03			.06	.03																												.17	
Council Bluffs 5 NE		.02			.06	T																												.08	
Creco		T			.42	.43	.33																											2.09	
Cumberland 5 NW		.10			.10	.05																												.25	
Dakota City	T	T	T		.12	.09	.06																											.31	
Dakota City R	.02				.08	.17	.02																											.33	
Davenport WB City	R	.18	.31	T	.11	.25	.01		T	T				.10	T	T	.01	T	T														1.14		
Decorah	T	.14	.08		.02	.33	.21	.09	T	T				.02	.05	T	.06	T															1.52		
Delaware 2 W	T	.65			.33	.52	.05		T	T				.05	T		.01	T															1.84		
Denison 1 S		.11			.12																													.23	
Derby R	.25				.13	.03	.09							.01																				.51	
Des Moines WB Airport R	T	T			.14	.03	.02		T	T				.08	T	T	T	T	T														.27		
Des Moines WB City	T	T	T		.05	.06	.06	T	T	T				.07	T	T	T	T	T														.24		
Dexter R					.06	.03	.06							.02																					
Donnellson 4 N			.12		.18	.02								.12																				.44	
Dorchester 4 S					.60	.40	.60																											2.32	
Dubuque L & D 11		.31	T		T	.19	.22	.13	T	T				.02	.04	T	T	.04																1.36	
Dubuque WB City R	.21	.14	T		.19	.21	.07	.08	T	T				.06	T	T	.06	T															1.52		
Dumont 4 NW		.02	.01		.11	.21	.33	.03						.04																				.97	
Dunbar 2 NE	T	.33			.16	.32	.01																												

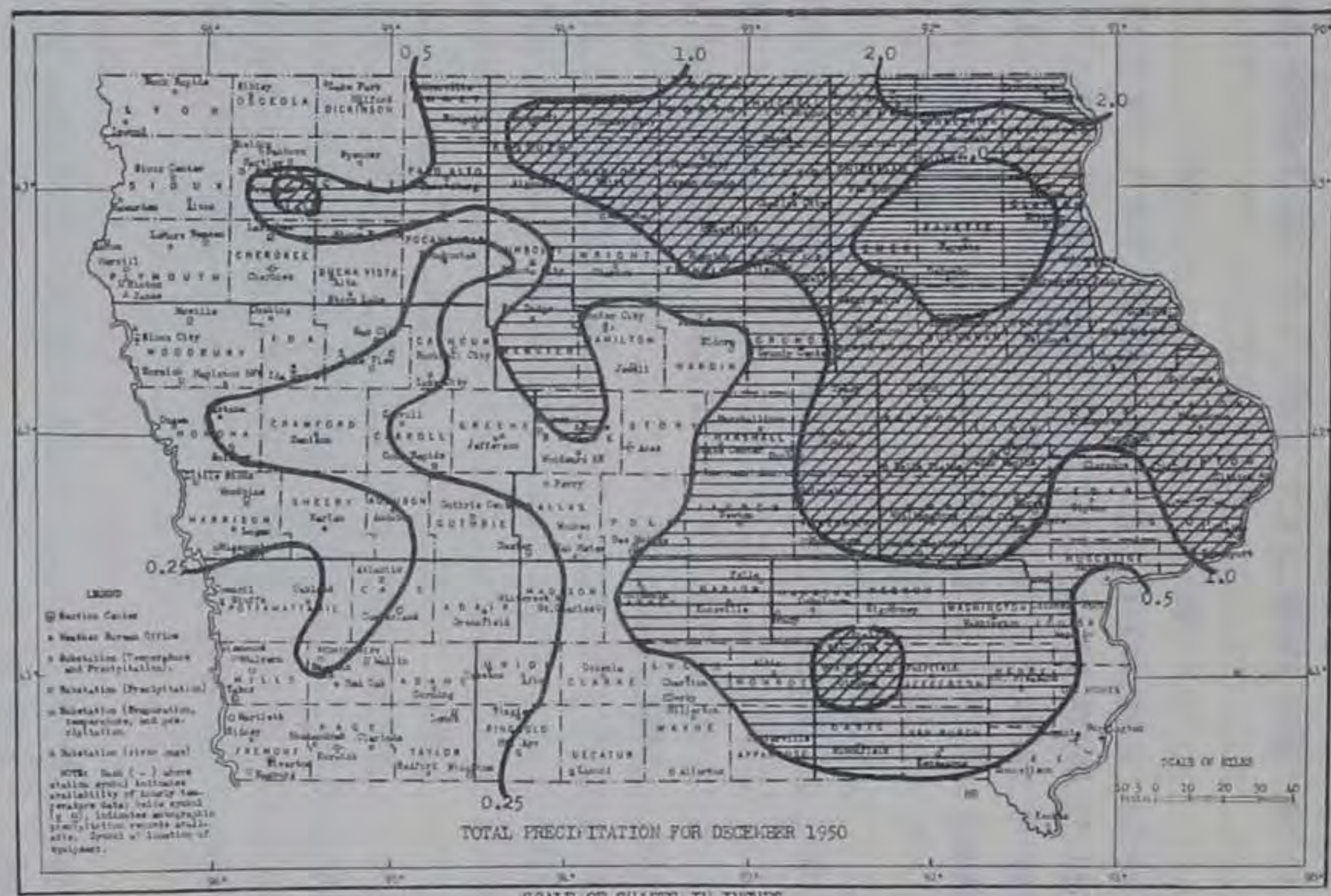
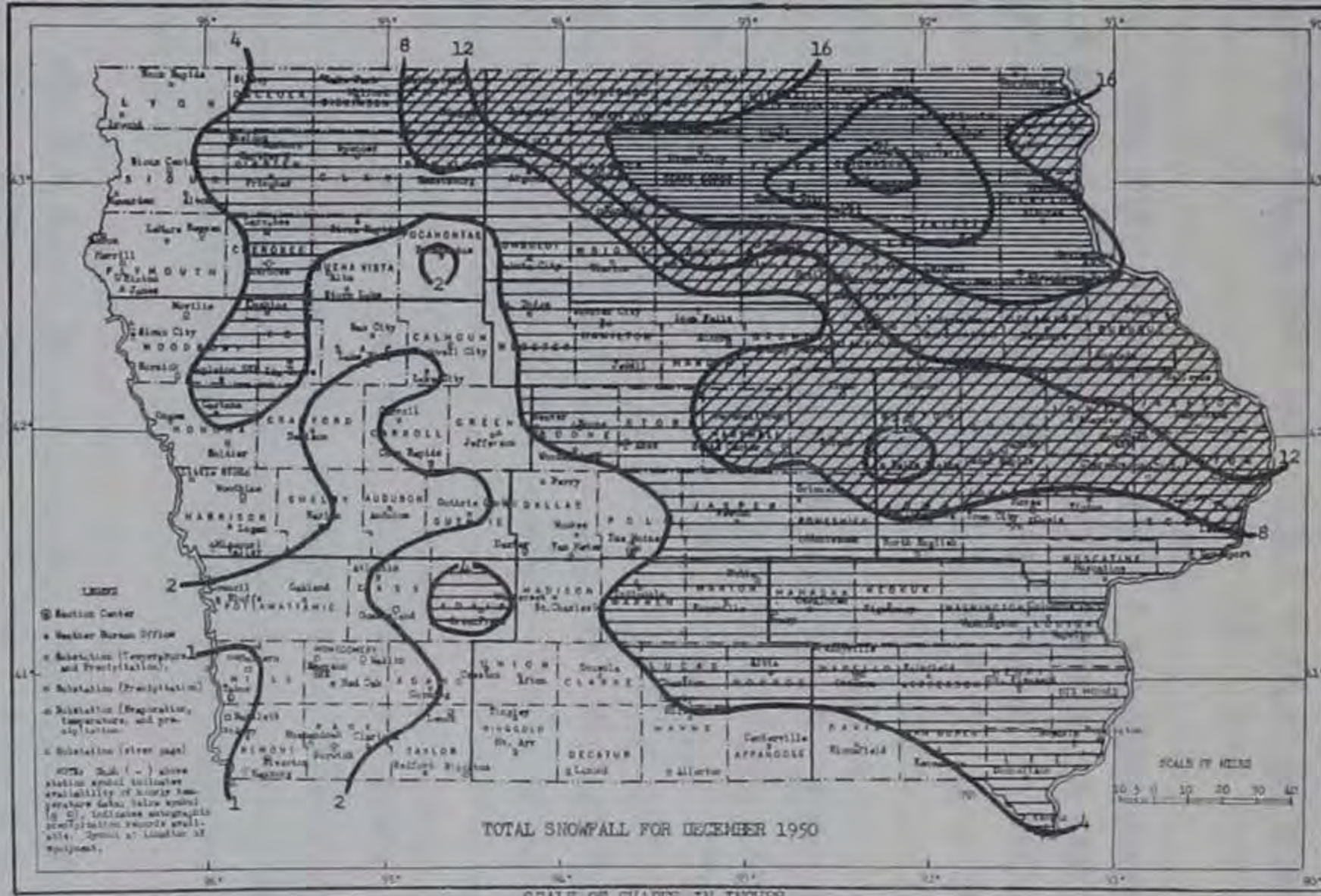
Table 3-Continued

DAILY PRECIPITATION

IOWA
DECEMBER 1950

Station	R	Day of month																															Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Wallis 2 WNW	R		.08																																	.08
Wapello			.10																																	.08
Washington			.28																																	.63
Washington	R	.26	.04		.08	.09	.18	.06	.01			.04	.03		T	T				.01		.04													.87	
Waterloo AP 5 NW	R		.22	T		T		T	.01	T	T	T	T	T	T		T				.05														.93	
Wauke			T	T		.10	.10					.10		T	T																				.30	
Waukon			T	T		.06	.08					.20				.10																			.58	
Webster City			.04		.09	.09	.07				.04			.03	T																				.36	
Webster City	R	.04			.09	.10	.08				.04			.03																					.38	
Wheatland	R	.48	.05		.03	.20	.08				.12										.06														1.10	
Winterset			T		.06	T	.11					T	T																					.17		
Woodbine 5 SE	R	.07	.10				.20				.02																								.38	
Woodward 7 N			T		.17	.05	.02				.03	T	T		T						T	T		T										.27		

PRECIPITATION AND SNOWFALL MAPS



HOURLY PRECIPITATION

IOWA
DECEMBER 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
STRAWBERRY POINT					.02	.06	.04	.04	.02	.02	.01	.01	.02	.01	.01	.01	.01	.01	.02		.02	.01	.01	.35	
TEURMAN 4S					.01	.03	.01	.01	.02	.01	.01								.01	.01	.01	.01	.01	.10	
TRAEER					.02	.02	.03	.02	.03	.01	.01	.01		.01	.01				.01	.01	.01	.01	.01	.24	
WASHINGTON							.03	.04	.02	.01	.01	.01							.01	.01	.01	.01	.01	.18	
WEBSTER CITY					.01	.03	.01	.01	.02	.01									.01	.01	.01			.09	
WHEATLAND																								.03	
WOODBINE 5SE																								.	
-6th-																									
AMES 3SW						.01				.01	.01	.01	.01	.01		.01	.01	.01	.01	.01	.01			.11	
ANKENY 2SW				.02	.01																			.03	
ATLANTIC AP CAA	//																							.05	
BEAVER		.01	.02						.01	.01													.01	.18	
BELLEVUE L/D 12		.03	.02	.01	.01						.02	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.10	
BOYER 5SE										.01	.03	.03	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.14	
BURLINGTON WB APT	//									.04			.01	.03	.02	.01	.01	.01	.06	.01	.01	.01	.01	.30	
CASCADE		.02	.03	.01															.01	.01	.01	.01	.01	.	
CENTERVILLE		.02	.01	.01															.02	.02	.03	.02	.03	.38	
CHARLES CITY		.01	.01	.01	.01	.01	.01	.01	.02	.01	.01	.02	.01	.02	.01	.01	.02	.03	.02	.02	.03	.02	.03	.05	
CHEROKEE													.01	.01					.01	.01	.01	.01	.01	.05	
COON RAPIDS																			.01	.01	.01	.01	.01	.06	
CORYDON																			.01	.01	.01	.01	.01	.03	
COUNCIL BLUFFS 6 NE		.01	.01	.01						.01	.01	.01	.01	.02	.01	.01	.01	.02	.01	.02	.01	.02	.01	.17	
DAKOTA CITY										.01	.01	.01	.02	.01	.01	.02	.01	.01	.03	.01	.02	.01	.01	.25	
DAVENPORT WB CITY		.01	.01	.01	.02					.01	.01	.01	.02	.01	.01	.01	.01	.03	.01	.02	.01	.01	.01	.03	
DERBY													.01	.01										.03	
DES MOINES WB APT																						.01	.01	.03	
DEXTER			.01	.02																		.01	.01	.21	
DUBUQUE WB CITY		.02	.01	.02						.01	.03	.01	.01	.01							.01	.02	.01	.02	
EXIRA 6ESE																							.02	.17	
GRINNELL		.01	.01	.01	.01	.01			.02	.02	.01	.05												.03	
HAMBURG		.01	.02																		.01	.01	.01	.03	
HORNICK																								.02	
IDA GROVE 4SSE											.01	.01	.01	.01					.04					.	
IOWA CITY AP CAA	6	.03								.01			.04								.04			.20	
IOWA C RALSTON CRK1		.01	.02	.01						.01	.01	.02	.02	.02	.02				.01	.02	.02	.01	.01	.11	
IOWA C RALSTON CRK2		.01								.01	.01		.01	.01					.01	.01	.01	.01	.01	.12	
IOWA C RALSTON CRK3		.01	.01	.01						.01	.02	.01	.01	.01					.01	.02	.01	.01	.01	.14	
IOWA C RALSTON CRK4		.01	.01							.01	.02	.03	.01	.01					.04	.01	.01	.01	.01	.17	
IOWA C RALSTON CRK5		.01	.01							.01	.01		.01	.02	.01	.01	.01	.01	.04	.01	.02	.01	.01	.07	
IRWIN																						.01	.01	.11	
KEOKUK WBO		.01	.01	.01						.02	.01	.01	.01	.01								.01	.01	.08	
KNOXVILLE 2W										.03	.01	.02												.03	
LENOX		.01	.01	.01																		.01	.01	.09	
LITTLE ROCK													.01	.01	.01	.01	.02	.01	.01	.03	.02	.02	.01	.20	
MARION 4NE													.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.25	
MARSHALLTOWN		.02		.01	.01	.02			.02	.02	.04		.01	.02	.01				.02					.	
MASON CITY AP CAA	6																						.04	.04	
MINEOLA 3SW																								.04	
MISSOURI VALLEY																					.02	.01	.01	.23	
MONONA		.02	.01							.03		.01	.01	.01	.01	.02	.01	.01	.03	.02	.02	.01	.01	.16	
MORSE										.01	.01	.01	.01	.02	.01	.01	.01	.01	.02	.01	.01	.01	.01	.12	
MORSE 1NE										.01	.02	.01		.01	.02	.01	.01	.02	.01	.02	.01	.01	.01	.16	
MORSE 4SSW																.01	.01	.01	.01	.01	.01	.01	.01	.02	
MOUNT AYR 2N																.01	.02	.01	.01	.02	.01	.01	.01	.06	
MOVILLE													.01	.01	.01	.02	.02	.01	.01	.02	.01	.01	.01	.20	
MUSCATINE NO 1		.01	.01	.01	.01	.01				.01	.01	.01	.02		.02	.01	.01	.02	.01	.03	.01	.02	.02	.09	
NORTH ENGLISH										.03	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.24	
OASIS		.01	.01	.01	.01					.02	.01	.01	.02	.01	.03	.01				.01	.01	.02	.02	.11	
OTTUMWA AP CAA	6															.01	.02	.01	.02	.01	.02	.01	.01	.13	
RINGSTED													.02	.01		.01	.02	.01	.02	.01	.02	.01	.01	.10	
ROCKWELL CITY										.01	.01	.01	.01	.01	.03	.02	.03	.02	.02	.04	.04	.01	.02	.38	
ST ANSGAR 2S		.01											.01	.01	.01									.04	
SAINT CHARLES										.01	.01	.01												.12	
SHELBY 3SSE										.04	.01													.	
SHELL ROCK		.02	.01																.02	.02	.02			.04	
SIOUX CITY WB APT																			.01					.01	
SOLDIER																								.	
SPENCER 1N	6																		.05					.31	
SPILLVILLE		.01	.01	.02	.02	.02	.02	.01	.02	.03		.02	.01	.01	.01	.01	.02	.03	.06	.03	.03	.01	.03	.31	
STRAWBERRY POINT																								.08	
TABOR 6NW																					.01	.02	.01	.20	
TRAEER		.01	.01							.06	.01	.01	.01	.01					.02	.02	.01	.02	.01	.26	
WASHINGTON		.02	.02	.01																	.01	.02	.01	.10	
WEBSTER CITY			.01	.01	.01					.01		.01	.03	.01	.02	.01			.03	.01	.01	.01	.01	.20	
WHEATLAND			.01	.02																				.	
-7th-																									
AMES 3SW				.01					.01	.01	.01	.01												.05	
ANKENY 2SW		.02	.01	.01	.01					.03												.06		.08	
ATLANTIC AP CAA	//																							.06	
BEAVER			.03	.01																.01	.01	.01	.01	.16	
BELLEVUE L/D 12		.02	.02	.02							.01	.01	.01	.01	.01					.01	.01	.01	.01	.03	
BOYER 5SE			.02	.01												.01	.01							.04	
BURLINGTON WB APT	//																							.04	
CASCADE			.01	.01						.01														.19	
CENTERVILLE											.15													.16	
CHARLES CITY		.02																							

HOURLY PRECIPITATION

IOWA
DECEMBER 1950

Table 4-Continued

Station	A. M. Hour ending												P. M. Hour ending												Total		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
MONONA																	.02	.01							.03		
ST ANSGAR 2S																		.03								.03	
SOLDIER																										.03	
SPENCER 1N	6																									.05	
SPILLVILLE																										.03	
STRAWBERRY POINT																										.03	
WEBSTER CITY																										.03	
-16th-																											
ATLANTIC AP CAA	//		.02																							.02	
CARSON			.01																							.01	
LARRABEE			.01																							.01	
SIoux CENTER																											
-18th-																											
CHARLES CITY																										.05	
CHEROKEE																										.02	
MARSHALLTOWN																										.04	
MASON CITY AP CAA	6																									.01	
MONONA																										.04	
ST ANSGAR 2S																										.02	
SHEFFIELD				.01	.01																					.05	
SPILLVILLE																										.02	
STRAWBERRY POINT																										.06	
TRAEr																										.06	
-19th-																											
BELLEVUE L/D 12	//		.01	.04																						.05	
BURLINGTON WB APT			.01									.01	.01													.03	
CASCADE																										.08	
CHARLES CITY				.01																						.02	
DAVENPORT WB CITY																										.06	
DUBUQUE WB CITY																										.07	
IOWA CITY AP CAA	6																									.08	
IOWA C RALSTON CRK1		.01	.02	.01																						.08	
IOWA C RALSTON CRK2			.01																							.09	
IOWA C RALSTON CRK3		.01	.01																							.14	
IOWA C RALSTON CRK4																										.08	
IOWA C RALSTON CRK5			.01																							.03	
KEOKUK WBO		.01	.02																							.04	
MARION 4NE						.01	.01																			.05	
MASON CITY AP CAA	6	.08	*	*	*	*	*																			.06	
MONONA		.02	.01									.01	.01													.06	
MORSE						.01	.01	.02	.01			.01														.06	
MORSE 1NE						.01	.01	.04				.01														.06	
MORSE SSW							.01	.03	.01			.01														.05	
MUSCATINE NO 1																										.05	
OASIS							.01	.03	.01																	.06	
RINGSTED																										.08	
SHELL ROCK	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	
SPILLVILLE		.01	.01																							.07	
STRAWBERRY POINT	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.05	
WASHINGTON	.01	.02	.01	.01																						.06	
WHEATLAND							.04	.01	.01																	.06	
-20th-																											
BELLEVUE L/D 12		.02	.01																							.03	
-24th-																											
-25th-																											
BELLEVUE L/D 12									.04	.05	.04	.02	.01													.30	
CASCADE									.07	.01	.02	.05	.04	.01												.31	
CHARLES CITY					.04	.04	.04	.04	.04	.04	.01							.01	.04	.04	.05	.04	.01	.01	.01	.41	
DAKOTA CITY																										.04	
DAVENPORT WB CITY									.02	.01	.03	.02														.09	
DUBUQUE WB CITY									.02	.05	.04	.05	.02	.01		.01	.01	.01	.02	.02	.03	.05	.03	.03	.40		
GREENFIELD																											
IOWA CITY AP CAA	6																									.03	
LITTLE ROCK																										.10	
MARION 4NE																											
MASON CITY AP CAA	6																									.23	
MONONA																										.07	
RINGSTED																										.37	
ST ANSGAR 2S						.06	.04	.03	.04	.03	.01	.01	.02	.01	.01										.10		
SHEFFIELD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.18	
SHELL ROCK	.01	.03	.04	.02	.01																					.18	
SPILLVILLE							.04	.01	.02	.02	.01	.01	.01	.01	.01			.01	.01	.01	.01	.01	.01	.01	.01	.46	
STRAWBERRY POINT							.05	.05	.06	.04	.01	.01	.01	.01	.01			.01	.01	.02	.04	.05	.04	.02	.03	.06	
TRAEr																										.06	
WHEATLAND											.01	.01														.08	
-26th-																											
BELLEVUE L/D 12		.01	.02	.01	.01																					.05	
CASCADE		.01	.03	.01		.04																				.09	
CHARLES CITY		.02	.01	.01																						.04	
DAVENPORT WB CITY																										.02	
DUBUQUE WB CITY		.01	.01	.01	.02																					.03	
GRINNELL																										.01	
IOWA CITY AP CAA	6	.02	*	*	*	*	*	*																		.02	
MASON CITY AP CAA	6	.12	*	*	*	*	*	*																		.04	
MONONA		.02	.02																							.02	
OTTUMWA AP CAA	6						.01	.01																		.03	
SPILLVILLE			.01	.01	.01																					.04	
STRAWBERRY POINT		.01	.03																							.04	
TRAEr			.01	.01																						.02	
-31st-																											
BEAVER																											
FOREST CITY																											
HAWARDEN 6NNE																											
IOWA FALLS 1N																											
MONETA																											

See reference notes following Station Index.

DAILY TEMPERATURES

Table 5

IOWA
DECEMBER 1950

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ALBIA	MAX 38	35	30	34	32	8	20	26	28	24	30	30	31	37	26	17	12	19	23	23	40	40	52	44	31	15	22	39	25	36	46	29.5		
	MIN 23	26	13	14	8	-2	-2	14	17	17	19	24	21	24	8	10	-4	-8	9	0	18	22	29	21	15	1	-10	14	8	13	27	12.5		
ALGONA	MAX 30	30	19	26	24	12	24	25	24	24	28	29	24	31	19	13	5	17	24	20	35	33	43	39	12	9	21	34	18	36	37	24.7		
	MIN 18	14	6	7	-1	-8	12	15	15	10	21	22	13	13	10	0	-8	-9	5	-7	14	19	24	10	7	-9	-14	10	-4	14	24	7.8		
ALLISON	MAX	30	24	25	24	25	31	25	25	20	28	27	24	30	30	10	5	12	20	20	22	31	45	34	12	8	22	34	8	34	35	24.0		
	MIN		8	4	8	-1	13	11	16	11	17	16	18	14	6	-1	-13	-15	10	-9	4	12	20	4	3	-3	-20	0	-2	9	20	5.4		
ALTA	MAX 30	30	20	27	25	8	20	25	29	26	32	32	27	34	20	16	11	23	25	24	38	36	45	40	22	13	24	34	24	40	43	27.2		
	MIN 20	12	1	6	-3	-12	6	12	16	12	20	23	16	16	7	5	-7	-1	7	-1	16	15	28	16	11	-2	-7	14	0	16	29	9.4		
ALTON	MAX 33	35		31	17	8	23	28	33	31	34	34	29	36	31	18	13	26	24	28	45	45	45			14	28		23	41	40	29.4		
	MIN 23	17	0	10	2	-10	5	13	12	15	19	19	18	15		8	-5	-1	10	-4	14	13			27	15	-1	-5	15	2	13	9.3		
AMES 3SW	MAX 34	31	25	30	29	6	24	27	26	24	29	30	27	36	28	12	7	17	23	20	37	36	46	44	18	13	23	40	26	40	42	27.4		
	MIN 20	22	9	7	3	-5	6	10	9	15	20	25	18	19	5	2	-6	-11	8	-6	10	22	23	17	11	-1	-12	14	5	15	22	9.5		
ANAMOSA 1NW	MAX 31	35	32	28	31	21	18	25	24	23	22	26	26	29	30	13	10	14	20	21	30	35	41	36	13	12	11	29	26	27	35	25.0		
	MIN 15	29	13	6	21	10	5	11	13	12	6	16	13	15	7	-1	-14	-15	3	-10	10	20	19	10	4	1	-27	8	4	0	14	7.0		
ANKENY 2SW	MAX 37	33	27	32	28	9	22	29	28	28	29	30	29	38	21	14	11	19	24	21	39	30	56	28	22	13	23	41	35	39	45	28.4		
	MIN 18	29	12	13	7	-5	3	11	14	14	16	25	21	20	3	6	-7	-8	14	-3	13	23	27	18	12	6	-11	16	8	18	25	11.6		
ATLANTIC 1E	MAX 42	37	29	38	35	4	19	32	31	27	36	34	40	45	33	23	19	26	27	26	45	50	58	47	30	20	24	44	32	44	54	33.9		
	MIN 25	20	8	12	0	-11	-5	7	16	16	18	27	24	20	9	13	-2	-3	16	0	17	17	25	24	19	5	-10	15	6	18	27	12.0		
ATLANTIC AP CAA	MAX 43	32	27	39	32	2	19	29	31	28	36	33	39	45	21	23	16	27	27	26	44	51	57	36	30	16	24	42	32	44	53	32.4		
	MIN 25	13	7	12	-7	-11	2	3	18	18	16	26	25	18	10	10	-2	-3	4	-1	16	10	21	20	14	-7	-13	10	7	15	26	9.7		
AUDUBON 2S	MAX 48	36	26	36	30	0	18	22	26	28	32	33	31	39	21	16	14	25	27	27	43	45											29.8	
	MIN 31	15	6	10	-2	-13	0	5	12	13	15	22	21	18	6	6	-4	-4	10	-2	18	23										26	51	10.8
BANCROFT	MAX 31	31	20	26	25	9	23	26	25	24	27	28	24	33	25	16	6	17	24	20	36	34	40	39	12	10	22	33	18	39	37	25.2		
	MIN 17	14	4	5	0	-9	7	17	14	8	19	22	12	11	10	-1	-10	-10	8	-8	12	21	22	8	5	-10	-19	10	-8	10	22	6.5		
BEDFORD 1N	MAX 42	40	31	36	31	8	21	30								29	27	28	22	29	45	51	58	43	38	29	25	39	37	44	53	34.8		
	MIN 27	24	10	12	-5	-9	-6	6								13	1			6	14	20	26	24	23	5	-6	12	7	23	26	11.5		
BELLE PLAINE	MAX 32	34	29	31	30	10	25	23	25	25	30	29	32	30	15	10	14	21	17	35	36	46	40	14	12	15	34	24	32	38	26.2			
	MIN 17	29	13	10	10	3	4	19	9	10	12	16	14	17	9	2	-9	-12	5	-6	11	22	22	11	9	-4	-20	8	5	8	19	8.5		
BELLEVUE L AND D 12	MAX 32	36	35	29	32	34	34	27	27	24	24	30	27	22	30	16	15	17	21	21	31	34	45	40	15	11	10	29	26	25	35	26.9		
	MIN 18	31	18	9	26	21	9	11	15	15	14	17	15	11	11	2	-5	-9	6	-5	9	24	14	14	6	6	-26	-2	12	-1	8	9.5		
BLOOMFIELD 2N	MAX 38	39	32	38	31	19	20	28	21	22	20	20	31	34	35	20	13	14	18	26	30	35	49	44	25	18	20	36	32			27.9		
	MIN 22	21	13	12	14	-1	-4		11	12	13	20	21	13	11	4	-5	-9	-1	2	10	15	28	20	16	7	-12	0	8			9.3		
BOONE	MAX 33	31	23	31	29	8	23	29	26	24	30	30	29	34	25	21	9	21	24	20	40	46	52	40	19	11	24	41	23	40	45	28.4		
	MIN 19	17	8	10	0	-6	7	9	15	12	20	24	21	19	7	5	-5	-6	13	0	18	22	26	10	10	-3	-7	17	3	19	27	10.7		
BRITT	MAX 33	29	20	25	24	14	25	24	24	20	26	26	24	30	28	20	4	12	22	18	33	29	40	37	11	9	19	32	16	35	37	24.1		
	MIN 14	10	7	5	4	-6	6	15	12	8	20	20	7	11	8	-3	-13	-12	10	-10	10	20	22	7	5	-12	-20	9	-8	8	25	5.8		
BURLINGTON WB APT	MAX 45	49	32	37	34	13	23	29	27	23	25	28	29	35	24	14	13	16	23	23	38	37	45	37	21	18	20	35	23	33	41	28.7		
	MIN 27	28	17	13	13	5	0	13	14	10	15	20	19	22	9	1	-6	-9	12	-1	19	21	26	15	15	1	-6	8	11	8	24	11.7		
CARROLL	MAX 35	32	23	34	28	4	18	26	29	26	32	32	29	36	23	15	13	25	26	26	41	42	53	44	25	16	23	29	28	40	50	29.1		
	MIN 25	13	13	13	2	-9	4	12	12	10	22	18	18	23	10	11	-5	-9	-5	-4	17	15	30	20	12	1	-8	17	5	19	31	10.7		
CASCADE	MAX 32	35	32	28	34	33	26	26	27	24	24	30	25	28	30	16	13	15	21	23	32	33	42	39	10	15	11	28	27	26	34	26.4		
	MIN 14	31	15	8	25	15	10	20	16	14	10	18	16	17	8	1	-10	-11	5	-13	7	21	15	9	5	-5	-29	-1	5	-2	9	7.8		
CASTANA 4E	MAX	25	21	35	31	0	18	27	29	28	35	32	30	40	30	18	14	26	27	26	42	47	54	47	29	21	26	40	25	46	49	30.6		
	MIN	12	2	9	-1	-8	-6	7	18	21	21	16	18	22	12	10	-3	0	10	0	16	20	32	24	16	0	-4	18	3	17	29	11.0		
CEDAR RAPIDS NO 1	MAX 32	36	30	29	32	15	26	26	24	23	23	28	26	31	31	14	7	12	21	21	34	36	44	40	11	12	13	32	28	30	37	25.9		
	MIN 17	30	14	8	15	6	5	21	15	13	10	18	15	17	10	2	-10	-13	7	-5	13	21	22	11	7	-2	-19	9	4	5	19	9.2		
CENTERVILLE	MAX 40	38	33	36	34	10	20	29	30	28	31	31	30	38	37	20	15	21	25	23	42	41	53	45	40	27	23	39	33	36	48	32.1		
	MIN 26	31	12	14	9	-3	-5	12	13	16	13	25	21	11	8	12	-4	-7	16	-1	17	23	28	22	18	8	-10	12	8	11	23	12.2		
CHARITON 3E	MAX 39	37	30	35	33	7	21	28	30	27	33	32	30	39	36	18	13	20	23	23	41	39	55	44	26	20	22	38	33	37	47	30.8		
	MIN 23	30	14	10	7	-6	-4	7	8	17	20	26	22	22	8	10	-6	-12	9	-6	12	18	26	26	17	8	-13	14	8	15	20	11.3		
CHARLES CITY	MAX 29	29	19	25	25	29	33	25	24	20	23	27	21	29	18	10	4	11	18	16	30	31	40	31	9	6	11	30	8	28	36			

DAILY TEMPERATURES

IOWA
DECEMBER 1950

Table S-Continued

Station	Day of month																															Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
DES MOINES WB CITY	MAX MIN	38 21	33 16	27 12	33 13	32 -1	8 -5	23 7	30 13	29 16	24 17	31 20	32 25	30 23	40 17	21 9	15 3	12 -1	23 -4	25 8	22 2	42 17	39 23	58 31	37 18	19 11	16 -3	24 -6	42 14	25 9	42 19	48 26	29.7 11.9	
DUBUQUE L AND D 11	MAX MIN	27 15	34 27	30 13	26 6	28 22	31 16	31 11	25 11	23 14	22 12	22 12	26 14	24 15	18 6	22 7	14 0	7 -9	7 -10	16 4	18 -5	28 8	32 21	39 18	39 10	10 2	-2 -2	-30 3	25 10	25 -8	22 16	34 16	23.2 7.4	
DUBUQUE WB CITY	MAX MIN	34 18	37 25	26 14	28 10	33 22	35 19	28 14	25 19	27 17	23 15	22 14	28 19	24 17	30 10	22 8	15 0	12 -5	18 -6	19 9	24 14	34 23	33 24	44 7	39 5	9 -7	12 -21	12 10	29 7	27 4	25 16	37 16	26.2 10.4	
ELKADER	MAX MIN	30 15	35 30	31 13	25 5	26 5	32 22	33 13	32 18	30 19	25 5	30 5	24 17	26 15	25 6	24 -19	14 -4	14 -18	15 -18	20 -1	20 -15	32 -5	34 12	43 18	42 8	10 -1	15 3	10 -31	30 -1	28 4	28 -6	36 9	26.4 4.0	
EMMETSBURG	MAX MIN	30 18	28 17	22 5	27 4	19 4	10 -9	25 9	28 15	25 14	26 10	29 15	29 26	23 14	32 13		10 2	6 -6	21 -12	18 11	20 -8	36 9	32 16	45 24	36 11	14 8	8 -4	24 -13	35 13	25 -3	39 15	39 27	25.4 8.2	
ESTHERVILLE	MAX MIN	30 16								23 15	22 10	29 16	30 16	21 16	26 13	16 8	10 0	8 -10	20 -11	12 -4	21 -6	32 13	28 16	42 25	32 10	20 5	10 -6	20 -15	32 18	20 -4	36 15	39 15	24.1 7.1	
FAIRFIELD	MAX MIN	38 29	39 31	33 15	34 13	34 10	10 3	19 0	27 15	27 15	25 18	27 15	29 16	29 21	33 24	34 12	23 4	9 -3	11 -11	22 8	19 -3	38 18	37 21	47 25	43 16	21 14	15 3	20 -11	35 11	29 8	37 12	42 23	28.6 12.0	
FAYETTE	MAX MIN	27 13	32 26	28 10	25 3	29 15	30 10	32 15	28 18	24 3	22 11	23 2	27 15	24 8	25 4	28 6	11 -1	4 -22	10 -21	20 2	19 -18	29 3	30 10	40 16	38 4	9 0	11 -6	7 -34	26 3	27 1	26 -11	34 10	24.0 3.1	
FOREST CITY	MAX MIN	28 15	28 10	18 3	23 2	22 -2	21 -7	26 18	25 12	24 12	21 7	28 19	26 18	21 -10	30 4	23 1	11 -4	11 -15	15 -17	20 -10	20 -13	34 15	28 19	41 23	36 2	15 2	8 -18	17 -25	32 3	14 -10	34 19	36 19	23.7 2.7	
FORT DODGE	MAX MIN	30 19	30 14	23 7	29 8	27 -1	6 -8	26 5	27 15	26 18	24 10	29 17	29 24	29 17	38 15	19 9	13 0	9 -7	20 -10	17 13	20 -6	39 16	34 26	47 26	39 14	16 9	9 -5	24 -11	39 16	21 -1	42 16	43 28	26.6 9.3	
GLENWOOD 2E	MAX MIN	44 28	39 20	30 8	40 21	35 2	4 -8	22 8	33 1	34 16	30 21	41 20	35 21	46 27	49 17	40 10	31 11	22 7	27 1	30 18	27 2	45 11	54 16	59 22	48 24	41 6		27 6	45 18	32 8	46 15	54 23	37.0 12.4	
GREENFIELD	MAX MIN	37 19	34 28	29 10	38 10	20 0	14 -11	18 -2	27 5	30 12	28 15	32 19	33 25	30 21	37 20		8 -3	-3 -2	13 11	20 -2	27 15	39 21		54 18		18 12	22 5	8 -8	38 13	49 6	47 14	30.6 10.5		
GRINNELL	MAX MIN	33 15	33 25	29 9	30 8	31 6	9 -2	24 0	24 13	24 11	23 12	27 16	31 19	29 16	33 17	32 6	12 0	8 -11	13 -13	21 6	20 -6	36 12	37 21	44 22	44 12	17 8	13 4	19 -17	34 10	26 5	37 10	40 22	28.9 8.3	
GRUNDY CENTER 4NE	MAX MIN	30 16	31 18	23 9	26 4	26 8	13 -1	28 12	23 10	23 9	20 13	24 17	27 15	26 14	31 15	30 12	4 -5	10 -11	6 -6	2 -6	10 10	21 21	34 6	34 5	41 5	40 -11	9 -22	13 9	32 2	14 4	32 19	36 6.6		
GUTHRIE CENTER	MAX MIN	38 21	32 19	25 8	34 10	30 1	2 -10	18 2	28 9	29 17	26 14	32 20	32 25	30 19	40 8	29 11	17 -1	12 -3	26 14	27 -1	28 18	45 23	43 33	54 21	43 14	25 1	15 -7	23 17	41 5	27 19	42 29	50 29	30.4 12.2	
GUTTENBERG L D 10	MAX MIN	31 17	33 30	33 14	27 8	32 23	35 17	34 17	26 21	24 14	24 13	29 12	26 17	22 15	30 3	40 10	29 1	17 -9	12 -11	26 6	27 -10	45 5	43 20	54 21	43 7	25 3	15 -2	23 -27	43 10	12 8	28 10	29 8	37 11	26.5 8.5
HAMPTON	MAX MIN	28 16	28 20	22 8	24 4	23 5	12 -3	30 12	23 16	23 13	21 15	28 19	29 20	25 16	31 13	29 9	11 -3	3 -11	13 -12	20 -4	19 -7	35 10	35 23	42 23	39 8	10 -4	5 -9	18 -18	18 14	12 -1	34 4	36 23	23.5 7.1	
HARLAN	MAX MIN	41 27	39 19	24 7	37 15	35 1	1 -9	19 0	25 7	30 14	28 22	36 22	39 24	42 25	36 20	20 10	15 2	27 0	27 17	25 16	43 17	49 26	55 26	46 28	28 19	21 5	25 -7	42 10	29 8	42 15	52 26	32.6 13.0		
HAWARDEN	MAX MIN	34 23	30 15	22 -1	28 9	23 1	14 -11	18 4	26 12	30 14	28 22	34 20	33 17	29 20	36 15	23 8	20 8	25 -8	20 -2	28 10	28 -3	45 18	52 25	54 20	40 23	28 15	23 -4	32 9	24 2	42 13	44 26	30.5 10.4		
IDA GROVE 4SSE	MAX MIN	34 23	34 15	18 2	30 9	30 -2	2 -12	18 0	22 12	30 17	26 22	33 24	33 21	30 21	36 15	23 7	16 10	12 -6	25 -4	22 9	25 -3	39 17	43 19	50 31	42 21	23 14	17 -1	25 -6	34 3	38 2	41 16	47 30	29.0 10.4	
INDEPENDENCE 2W	MAX MIN	32 14	32 25	30 10	27 5	27 12	19 3	22 7	26 16	23 11	23 9	21 6	26 19	30 8	30 9	13 6	5 -2	11 -15	20 -16	15 -2	31 11	32 17	39 15	40 7	11 2	9 -6	10 -25	28 -5	27 0	28 -2	31 12	23.9 4.5		
INDIANOLA	MAX MIN	39 21	34 28	31 10	34 11	32 6	6 -6	22 2	29 11	31 15	27 16	33 19	33 26	31 21	41 28	36 7	17 10	11 -4	22 -7	24 13	24 -1	41 16	38 19	56 26	45 20	24 14	15 7	23 -10	40 15	32 7	40 17	47 25	30.9 12.3	
INWOOD 2W	MAX MIN	32 19	30 14	21 -7	24 5	16 -6	12 -13	20 -4	26 15	29 12	27 21	33 16	32 24	26 17	35 12	19 5	12 6	16 -12	27 -6	27 7	27 -4	45 7	47 16	52 23	40 18	23 10	12 -4	28 -6	31 15	21 -2	40 11	41 22	28.1 7.5	
IOWA CITY AP CAA	MAX MIN	35 19	36 22	29 15	32 10	34 11	12 6	23 1	25 12	24 10	23 7	24 13	27 19	28 18	33 19	19 5	-2 -10	-12 -12	5 -8	21 -5	22 -8	36 9	34 19	42 16	38 11	14 9	14 -16	33 7	18 5	33 4	38 10	25.8 7.3		
IOWA FALLS 1N	MAX MIN	29 15	30 21	22 5	25 3	25 5	7 -6	28 4	25 14							15 -6	5 -16	16 -8	21 -12	20 7	33 20	35 43	40 21	14 8	4 4	3 -3	-20 10	0 2	17 17	3.5				
JEFFERSON	MAX MIN	35 21	33 16	24 9	30 10	29 4	7 -8	22 7	30 14	30 15	26 14	32 24	29 23	40 17	30 8	15 8	13 -2	25 -5	25 15	41 14	39 19	52 25	43 19	22 13	15 3	24 -7	41 18	25 4	43 16	49 26	29.8 11.9			
KEOKUK L D 19	MAX MIN	43 29	50 29	40 19	34 18	37 18	35 7	12 2	25 17	32 19	32 17	31 21	32 22	35 17	24 14	20 -2	15 -3	24 -3	27 12	26 10	40 21	37 25	48 30	33 20	28 13	20 -2	-1 -1	14 14	14 18	13.9				
KEOKUK WBO	MAX MIN	49 30	54 28	33 20	36 11	33 4	11 -2	23 18	34 20	30 16	23 17	25 20	28 20	28 18	36 11	24 5	15 0	15 -7	22 9	23 8	44 20	38 25	51 35	42 18	25 14	17 8	24 -5	38 13	26 12	35 11	44 24	30.4 14.2		
KEOSAUQUA	MAX MIN	40 27	40 32	34 15	36 11	34 14	14 3	19 -2	32 16	30 10	26 17	32 10	30 22	31 21	37 15	35 11	17 10	16 -4	19 -8	25 9	23 -2	41 16	40 24	50 25	45 23	25 17	21 9	24 -8	38 10	32 8	37 22	31.2 12.4		
KNOXVILLE 2W	MAX MIN	47 22	42 30	32 11	32 13	33 7	10 -4	23 -1	27 11	28 15	25 18	30 18	31 24	31 20	36 23	34 7	19 9	13 -5	20 -8	23 15	23 0	40 18	39 28	52 27	56 19	25 14	14 -8	22 14	39 8	32 15	38 27	45 27	31.0 12.6	
LAKE CITY	MAX MIN	33 20	32 16	20 4	30 9	28 0	6 -10	19 5	26 13	28 15	26 11	31 16	32 22	29 18	37 17	20 8	13 8	11 -5	24 -4	25 10	25 -2	41 15	37 17	52 27	40 17	22 12	20 0	24 -8	38 16	26 0	42 17	47 25	28.5 10.0	
LAKE PARK	MAX MIN	31 17	30 13	17 0	21 0	20 -1	10 -11	22 5	25 15	26 15	25 11	30 14	30 22	23 13	30 12	21 8	14 -5	10 -9	21 -6	25 5	21 -8	38 10	37 11	45 24	42 8	19 5	8 -8	22 -14	31 12	22 -6	38 14	37 26	25.5 6.2	
LAMONI AP CAA 4WNW	MAX MIN	41 26	35 14	31 11	36 18	33 -1	4 -8	21 -4	29 7	30 14	27 18	36 27	33 22	38 18																				

DAILY TEMPERATURES

Table 5--Continued

IOWA
DECEMBER 1950

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MASON CITY 3N	MAX MIN	29 15	27 13	18 6	24 3	23 1	23 -2	31 19	24 15	25 15	20 13	25 18	28 19	22 10	30 4	17 2	10 -5	-3 -13	15 -18	21 3	17 -12	34 12	31 22	42 23	36 3	20 3	6 -18	16 -26	32 10	25 -7	34 8	36 14	23.8 4.8
MASON CITY AP CAA	MAX MIN	28 15	28 8	17 3	24 2	21 -3	27 -4	29 18	23 15	24 15	20 11	26 19	26 18	19 8	30 6	14 -4	6 -8	0 -15	15 -18	20 -3	16 -13	33 10	30 20	41 25	31 3	8 3	6 -26	15 -26	31 4	15 -8	31 8	35 18	22.2 3.3
MILFORD 4NW	MAX MIN	30 17	30 10	19 -1	22 3	18 -6	22 -11	24 5	26 14	26 16	30 10	30 13	22 30	31 13	15 5	11 -2	10 -8	21 -9	25 1	20 -9	37 13	31 24	43 8	38 5	13 -12	12 -15	21 8	31 -5	22 12	27 5	37 12	38 25	24.5 5.3
MILLERTON	MAX MIN									31 12	27 17	33 18	32 27	29 22	41 16	38 5	19 12	17 -3	24 -6	26 16	25 0	42 16	42 26	52 27	47 21	29 18	21 8	23 -11	40 12	33 6	39 16	49 23	33.0 13.0
MISSOURI VALLEY	MAX MIN	44 27	36 16	29 4	42 20	35 0	6 -10	21 0	32 6	34 22	30 24	42 26	34 20	44 27	50 23	26 10	28 15	22 8	30 5	28 14	26 6	46 21	56 23	60 32	44 27	38 22	22 4	29 0	49 11	30 5	47 15	54 34	35.9 14.7
MONMOUTH 4SW	MAX MIN	30 15	38 30	33 16	30 12	32 24	32 25	28 5	32 19	26 13	25 12	24 8	28 12	25 15	28 17	15 7	10 -2	15 -11	20 -13	22 3	30 -9	34 8	40 16	38 11	13 3	22 5	12 -27	28 4	20 5				26.2 8.4
MOUNT AYR 2N	MAX MIN	40 28	38 25	32 10	36 17	35 5	17 -10	20 -5	29 5	30 9	29 14	37 19	34 28	40 25	47 18	42 8	25 11	21 0	26 -2	24 7	27 0	45 18	48 20	57 26	44 25	34 23	24 8	25 -11	40 8	38 20	44 25	44 25	34.6 12.3
MOUNT PLEASANT	MAX MIN	37 26	40 30	32 14	35 11	35 15	16 4	17 -1	28 15	27 10	22 15	25 9	28 20	29 19		33 8	21 4	12 -7	14 -12	23 5	24 -4	38 15	38 15	46 22	42 21	22 11	17 5	20 -10	35 7	29 10	34 5	42 22	28.7 10.2
MUSCATINE NO 1	MAX MIN	35 21	35 21	33 18	33 13	39 21	21 11	17 4	28 16	26 16	24 15	24 11	29 20	27 16	32 22	30 10	15 3	11 -6	14 -8	24 9	20 -4	37 15	37 24	43 22	38 13	16 11	17 5	17 -10	32 9	28 9	33 7	38 24	27.5 11.5
NEW HAMPTON	MAX MIN	28 11	30 15	18 7	23 2	24 8	29 4	31 22	25 11	21 7	19 7	22 10	25 6	23 1	27 3	22 -7	9 -17	1 -17	8 -17		16 -8	29 5	29 19	38 13	37 -1	7 -1	6 -16	9 -26	28 5	15 -4	27 -4	33 12	22.0 2.5
NEWTON	MAX MIN	35 20	35 27	28 10	32 12	31 6	11 -2	25 4	28 14	28 15		30 19	34 22	35 17	35 20	33 8	23 4	15 -8	15 -9	26 12	19 -2	37 16	38 24	46 16	45 12	18 0	14 -11	21 13	38 7	28 15	38 25	41 15	29.4 11.0
NORTHWOOD	MAX MIN	27 11	27 16	17 4	24 -2	19 4	15 -3	32 15	24 18	23 10	19 11	23 15	26 18	22 4	28 -3	23 11	2 -14	12 -15	20 -7	15 -10	32 6	32 21	41 17	38 5		5 -15	13 -25	29 -10	13 7	30 15	34 15	22.5 3.8	
NORWICH 2E SCS FARM	MAX MIN	43 27	39 23	39 9	39 20	36 1	4 -10	22 -5	33 4	34 18	29 20	41 20	36 22	46 27	49 19	40 9	33 11	20 2	27 2	27 17	27 3	46 15	54 20	57 25	48 25	43 22	23 5	27 -8	43 11	32 8	45 14	54 25	36.6 12.9
OAKLAND 2E	MAX MIN	42 26	37 18	28 8	41 18	35 1	2 -10	20 -2	30 1	32 13	29 21	39 17	35 21	44 26	46 17	38 9	26 9	19 -1	27 -1	29 16	25 0	44 15	52 13	56 20	42 24	36 21	22 5	25 -10	43 13	32 6	43 11	54 30	34.6 11.5
ORLWEIN 2SE	MAX MIN	30 13	32 27	29 11	27 5	29 14	27 7	30 11	27 17	23 11	22 5	26 15	28 10	24 8	25 6	30 -1	11 -16	4 -14	15 -4	19 -11	19 7	29 17	35 17	42 17	36 8	15 -5	8 -3	10 -28	28 5	29 -4	35 16		24.8 5.5
ONAWA	MAX MIN	39 26	39 13	24 1	38 16	30 -1	1 -10	20 0	28 5	32 17	28 24	36 17	33 24	39 26	42 21	24 10	22 13	18 7	28 4	29 12	28 3	44 19	51 16	59 27	37 23	29 21	22 2	29 0	42 15	26 5	45 17	50 32	32.6 13.1
OSAGE	MAX MIN	28 11	28 15	18 6	24 -2	22 6	20 6	33 12	25 17	23 6	20 8	23 13	27 17	22 11	28 4	28 6	11 -2	3 -13	7 -21	20 6	14 -13	30 2	29 21	39 13	38 8	10 0	7 -13	11 -30	29 -5	15 -7	27 -2	35 17	22.4 3.1
OSCEOLA	MAX MIN	39 23	36 27	32 10	36 13	34 6	8 -7	21 -2	30 8	32 14	29 14	35 19	32 27	33 22	44 7	40 12	19 -1	16 -2	25 -14	27 4	25 14	43 17	42 24	58 30	46 23	27 17	20 7	24 -7	40 12	31 6	41 20	49 24	32.7 12.9
OSKALOOSA	MAX MIN	38 21	35 29	30 13	33 11	32 10	1 -1	23 15	27 12	29 19	24 18	30 24	30 18	35 26	19 10	15 6	10 -7	16 -10	22 -5	20 12	39 16	35 23	52 26	44 21	24 14	15 3	22 -13	32 9	29 12	39 12	44 24	29.2 11.8	
OTTUMWA AP CAA	MAX MIN	38 22	35 21	29 14	34 13	32 5	22 0	28 -1	27 13	22 14	28 13	30 17	30 22	35 19	19 9	15 2	10 -5	16 -7	21 6	21 0	40 17	35 23	48 30	38 17	20 13	15 -4	20 -9	37 10	23 8	36 12	43 24	27.5 10.9	
PERRY 2SE	MAX MIN	36 19	33 21	25 8	31 7	26 3	4 -9	18 0	28 10	28 9	27 11	29 11	30 24	40 21	32 19	22 6	12 -6	24 -3	24 -8	24 12	24 -5	42 11	35 17	55 21	45 18	21 12	14 4	25 -11	41 13	31 4	43 17	47 22	29.7 9.4
POCABONTAS	MAX MIN	30 17	30 12	19 4	30 5	25 -4	6 -10	25 5	24 13	30 12	24 9	31 12	27 22	34 15	19 7	11 -2	9 -8	23 -11	24 2	21 -8	39 11	33 17	44 25	37 13	15 8	9 -9	24 -13	35 13	23 -2	39 17	43 26	26.3 6.9	
PRIMGHAR	MAX MIN	32 19	31 10	18 -2	23 5	25 -1	4 -13	21 3	21 11	27 15	25 11	31 16	32 23	32 16	37 15	17 7	10 3	22 -10	25 -2	23 3	37 15	37 15	45 27	43 15	20 9	13 -4	23 -8	32 4	25 -3	38 15	42 28	26.9 7.8	
RED OAK	MAX MIN	42 28	39 21	29 10	40 20	35 3	5 -9	21 -1	30 14	35 19	30 17	40 24	36 27	45 18	49 11	39 11	30 3	20 0	27 15	29 1	26 11	47 13	53 21	57 24	38 20	40 1	22 -10	25 15	43 9	33 16	44 29	54 29	35.6 12.3
ROCK RAPIDS	MAX MIN	34 22	30 14	18 -2	22 4	15 -5	10 -10	21 13	25 18	29 19	27 15	33 25	33 17	25 17	34 9	29 -1	15 -8	26 -7	26 -4	42 9	40 10	51 21	42 15	16 5	10 -4	28 -8	30 11	21 0	39 12	42 30	27.4 8.1		
ROCKWELL CITY	MAX MIN	32 20	31 16	22 4	29 6	27 0	11 -11	24 6	24 14	29 13	25 10	30 22	31 18	29 16	37 6	22 12	13 -7	24 -7	25 9	24 11	40 18	35 23	48 36	38 20	15 12	20 -1	37 -9	23 16	33 0	42 17	35 22	27.5 8.9	
SAC CITY	MAX MIN	33 22	32 13	20 5	32 8	28 -1	8 -10	20 8	21 14	28 18	26 13	32 19	32 24	30 19	37 17	20 8	14 4	10 -4	25 -4	25 5	40 19	37 18	50 32	39 18	20 9	26 -1	24 -5	38 15	25 1	41 18	48 30	28.6 10.6	
SANBORN	MAX MIN	32 20	30 12	16 -1	23 5	23 -7	6 -13	20 6	21 11	27 16	25 13	31 18	31 22	23 15	31 15	18 8	11 -2	10 -8	22 -2	24 5	23 -2	37 15	36 17	47 28	43 13	18 5	7 -4	23 -8	31 13	19 -2	38 16	40 30	25.4 8.3
SARATOGA 2E	MAX MIN	27 5	27 20	25 7	11 -6	20 10	28 4	33 18	30 18	22 2	19 9	21 4	23 8	20 -5	22 -13	23 0	7 -7	-2 -20	5 -24	16 -2	14 -15	28 2	29 20	37 16	36 0	5 -6	6 -15	25 -34	25 5	25 -5	32 -7	20.8 -0.1	
SHELDON	MAX MIN	33 21	30 12	17 -1	24 4	18 -6	8 -12	20 7	21 11	28 13	26 14	32 18	31 23	25 16	32 15	16 7	12 -2	11 -8	23 -6	25 7	23 -6	38 11	38 10	48 24	41 15	21 7	8 -3	25 -10	32 11	23 -2	39 13	41 28	26.1 7.6
SHENANDOAH	MAX MIN	43 29	37 20	34 9	40 21	36 3	6 -9	23 -4	35 5	36 21	32 23	45 33	38 22	49 23	51 19	39 9	34 11	23 4	27 2	28 16	28 2	48 15	57 16	58 20	46 27	43 26	28 6	28 -7	44 15	34 8	47 22	54 20	37.7 13.7
SIBLEY	MAX MIN	30 19	29 15	17 -4	20 -2	19 0	6 -11	20 4	19 12	25 14	24 10	31 22	30 17	26 14	21 8	19 -10	10 -13	22 -6	21 10	22 6	37 15	35 9	41 19	40 10	20 7	10 -5	24 -14	23 13	21 -4	36 9	40 27	24.4 5.4	
SIDNEY	MAX MIN	44 29	39 22	33 10	40 22	36 4	4 -9	23 -1																									

DAILY TEMPERATURES

IOWA
DECEMBER 1950

Table 5--Continued

Station		Day of month																														Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
TINGLEY	MAX	40	37	33	36	32	13	20	30	30	28	38	33	39	47	36	24	22	27	22	25	45	48	58	43	30	17	24	38	29	40	50	33.4
	MIN	26	25	9	16	5	-10	-5	5	15	13	19	28	24	20	8	12	-1	-1	15	2	17	19	27	23	17	5	-10	12	7	20	22	12.4
TIPTON	MAX	34																															26.8
	MIN	16																															
TOLEDO	MAX	31	33	28	30	28	10	26	24	25	25	30	29	33	32	17	7	17	21	20	36	36	44	43	13	11	18	35	27	37	39	26.8	
	MIN	17	28	12	8	8	0	5	18	15	13	15	18	18	17	10	2	-10	-13	7	-7	13	24	23	12	8	-4	-18	12	7	8	21	9.3
TRIPOLI	MAX	30	32	28	27	24	25	31	27	23	23	29	25	27	30	13	7	10	19	16	30	33	42	38	38	9	12	29	29	30	35	25.6	
	MIN	16	26	9	2	11	3	15	19	11	13	8	12	5	9	7	-4	-15	-17	5	-10	10	22	18	7	2	-10	-27	6	0	-4	16	5.3
VINTON	MAX		32	30	27	30	15	27	26	23	22	22	27	27	30	30	12	10	10	21	19	30	36	42	42	12		12	32	25	31	38	25.5
	MIN		30	15	9	14	4	13	19	11	15	8	11	14	16	9	0	-10	-14	4	-10	9	20	20	11	8	8	-24	8	4	5	23	8.3
WASHINGTON	MAX	37	37	32	34	33	15	19	30	27	24	25	30	30	34	30	15	11	15	24	22	36	38	44	40	22	15	18	35	33	39	41	28.5
	MIN	19	30	11	10	13	4	0	12	12	11	9	18	17	22	7	0	-8	-11	8	-4	14	23	21	22	10	0	-13	9	7	5	17	9.5
WATERLOO AP 5NW	MAX	32	42	23	27	31	25	29	29	25	31	25	28	26	31	31	11	8	10	20	17	34	35	41	35	11	11	12	31	30	30	38	26.1
	MIN	16	21	11	4	9	1	13	15	14	9	9	17	11	12	8	-4	-14	-20	8	-10	7	20	18	9	4	1	-26	10	6	-2	12	6.1
WAUKEE	MAX	38	33	27	32	32	6	23	30	29	25	31	32	29	40	25	15	12	19	25	23	42	35	58	50	22	16	23	42	35	42	48	30.3
	MIN	31	26	12	12	6	-5	4	13	16	17	20	26	23	23	9	11	-7	-6	7	0	17	23	27	20	14	7	-9	17	6	20	26	13.1
WAUKON	MAX	26	31	26	19	28	30	33	31	23	21	21	25	20	18	23	10	5	10	16	18	29	29	38	38	6	9	5	25	18	23	34	22.2
	MIN	11	24	11	2	14	10	28	19	8	7	6	13	2	7	7	-1	-9	-9	3	-1	6	16	19	5	-2	2	-24	5	8	1	13	6.5
WEBSTER CITY	MAX	30	33	22	28	28	8	27	25	25	23	29	31	29	36	23	11	7	17	23	20	36	32	45	39	16	11	22	38	21	39	39	26.2
	MIN	19	17	8	4	-4	-6	8	11	9	11	21	23	17	16	10	0	-12	-15	11	-10	11	19	25	13	9	-9	-17	12	-1	12	23	7.6
WINTERSET	MAX	40	36	30	35	34	9	21	32	33	30	37	32	32	45	38	20	18	27	27	28	46	42	60	50	26	20	25	44	40	45	48	33.9
	MIN	23	28	8	11	7	-9	0	8	15	14	18	28	22	21	7	13	-2	-4	15	-1	16	20	28	24	16	7	-10	12	4	20	26	12.4
WOODWARD 7N	MAX	35	33	25	30	29	12	23	29	27	26	29	30	28	38	34	18	12	20	24	21	40	39	50	45	35	23	23	40	33	40	46	30.2
	MIN	21	31	8	9	8	6	5	13	13	11	19	26	21	21	5	6	7	10	2	5	15	22	24	28	11	4	-13	15	4	16	36	13.2

DAILY SOIL TEMPERATURES

		Day of month																														Average			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31		
AMES, IOWA																																			
1 Inch	7AM	24	30	18	15	25	13	24	24	24	26	28	26	26	22	20	14	8	21	12	17	24	26	25	17	14	-2	13	13	18	22	19.7			
	12M	28	31	21	22	23	16	25	26	26	25	28	29	28	29	25	22	15	13	22	16	23	27	29	24	20	15	10	22	16	26	29	22.9		
	7PM	30	29	20	25	19	20	26	23	25	25	28	28	28	30	23	20	14	17	19	18	27	26	32	21	17	9	15	25	18	25	32	23.0		
2 1/4 Inches	7AM	25	30	20	17	25	14	24	24	24	26	28	27	27	23	22	17	12	22	15	19	25	26	26	19	15	3	15	15	20	23	21.0			
	12M	29	31	24	23	24	17	26	26	26	25	28	29	28	29	26	23	19	17	23	19	24	27	30	26	21	16	12	22	19	26	29	24.0		
	7PM	30	29	22	26	20	20	26	23	25	25	28	28	28	30	24	22	18	19	20	20	27	26	32	23	19	12	16	25	20	26	31	23.9		
4 Inches	7AM	28	30	25	22	27	20	25	27	27	27	28	29	28	29	28	25	22	17	22	20	22	25	26	28	22	18	8	17	17	20	24	23.6		
	12M	29	31	26	24	26	21	26	28	27	28	29	29	29	28	25	21	18	23	20	22	26	27	27	27	22	19	13	20	20	24	26	24.5		
	7PM	30	30	26	26	25	23	27	28	28	28	29	29	29	30	28	25	21	20	23	21	25	27	29	26	22	17	18	25	22	26	29	25.5		
8 Inches	7AM	31	31	30	27	28	25	27	28	28	28	29	30	30	30	30	28	26	23	24	23	24	26	27	29	26	23	17	20	21	23	25	26.4		
	12M	31	31	30	27	28	25	28	29	28	29	30	30	30	30	30	28	25	23	24	23	24	26	28	28	25	22	17	20	21	24	26	26.5		
	7PM	31	31	30	28	28	26	28	29	29	29	30	30	30	30	30	28	25	23	25	23	25	27	28	28	25	22	19	23	23	26	27	27.0		
20 Inches	7AM	38	38	38	37	37	36	36	36	36	36	36	36	36	36	36	36	35	34	33	32	32	32	32	32	32	32	32	31	31	31	31	34.4		
	12M	38	38	38	38	36	36	36	36	36	36	36	36	36	36	36	36	35	34	33	33	33	32	32	32	32	32	32	31	31	31	31	34.6		
	7PM	38	38	38	37	36	36	36	36	36	36	36	36	36	36	36	35	34	34	33	32	32	32	32	32	32	32	32	31	30	30	31	34.3		
40 Inches	7PM	44	44	43	43	42	42	42	41	41	41	41	41	41	40	40	40	40	39	40	39	39	39	38	38	38	38	37	37	37	37	37	39.8		
	7PM	50	50	50	49	49	48	48	48	48	48	48	48	47	47	47	46	46	46	46	46	46	46	46	46	45	45	44	44	44	44	44	46.7		
72 Inches	7AM	20	30	10	11	16	-4	23	15	24	17	21	26	22	21	8	8	-4	-10	20	-4	11	24	30	18	12	7	-10	16	8	19	25	13.9		
	12M	33	31	22	24	10	0	25	22	25	22	28	30	27	30	17	10	5	12	17	15	30	27	43	21	17	10	15	31	15	35	38	22.2		
	7PM	32	22	15	28	4	7	20	10	22	22	28	26	26	28	10	6	0	14	12	14	36	26	44	17	12	-1	17	26	18	26	40	19.6		
COUNCIL BLUFFS, IOWA																																			
1 Inch	12M	39	30	33	35						31	31	31	33	32	38	44	28	30	31	30	32	23	35	41	43	37	36	31	29	36	36	39	40	34.1
	12M	34	32	31	32	27	14	13	28	30	30	32	32	32	32	35	29	29	30	29	29	26	32	33	33	33	33	28	27	30	31	32	35	29.7	
2 1/4 Inches	12M	33	32	31	32	29	26	28	29	30	30	32	32	32	34	29	29	30	29	29	26	31	30	32	33	33	33	29	26	28	29	30	31	30.1	
	12M	34	34	33	33	32	29	28	28	30	30	31	32	32	33	31	30	30	30	30	27	30	30	3											

DAILY TEMPERATURES

IOWA
DELAYED DATA

Table 5-Continued

Station	Day of month																															Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Fort Dodge	MAX	89	85	83	76	77	80	83	84	76	85	84	77	73	79	85	86	79	76	68	75	76	82	80	79	80	83	86	87	87	90	85	81.1
	MIN	58	59	64	56	54	50	54	62	63	63	60	68	48	51	61	63	65	57	61	53	58	54	61	56	60	58	58	58	63	69	65	59.0
Norwich 2 E SCS Farm	MAX	91	86	85	86	79	84	82	80	75	78	77	75	73	77	82	84	79	75	75	78	76	79	80	80	72	80	82	85	85	88	83	80.4
	MIN	61	58	63	56	57	53	55	60	64	62	66	67	50	50	61	63	64	61	63	54	57	56	58	57	59	55	59	58	62	68	66	59.5
Tingley	MAX	87	84	86	84	78	80	83	82	78	85	83	74	73	78	83	84	80	78	77	75	77	79	77	80	73	80	83	84	85	85	85	80.6
	MIN	60	60	65	54	55	52	55	57	66	60	66	66	48	50	59	64	61	60	63	55	54	56	57	54	52	55	60	60	62	62	61	58.4
Waterloo AP 5 NW	MAX	75	86	85	84	77	78	79	83	84	85	83	87	74	73	80	86	87	80	81	71	75	78	83	80	78	82	86	86	89	88	91	81.7
	MIN	50	56	61	56	56	52	52	55	62	65	57	68	55	55	60	68	67	52	62	60	61	57	59	57	56	57	61	58	58	63	66	58.8
Woodward 7 N	MAX	90	84	84	78	75	79	80	81	77	83	82	78	72	78	85	87	80	76	69	77	73	80	80	80	80	83	87	86	83	89	86	80.7
	MIN	58	61	66	56	56	53	50	61	65	62	64	65	49	51	60	61	65	57	60	56	55	55	60	55	58	56	60	59	61	67	66	59.0
August 1950																																	
Alton	MAX	88	79	79	79	80	75	84	86	89	89	83	75	80	86	90	80	90	75	77	71	83	85	87	89	85	73	71	72	74	79	85	81.2
	MIN	55	51	51	62	60	60	63	54	62	66	61	64	63	61	63	63	60	46	50	35	48	46	54	67	48	51	52	55	52	48	51	55.5
Hawarden	MAX	75	79	85	83	81	84	78	86	90	87	80	73	69	88	90	93	86	78	70	74	84	88	88	84	76	78	68	73	76	80	88	81.0
	MIN	55	48	64	63	62	68	65	54	60	67	62	64	62	59	60	63	60	45	46	34	50	46	53	64	46	56	60	53	54	48	53	56.3
September 1950																																	
Alton	MAX	87	87	85	86	83	83	79	84	85	80	65	62	70	72	74	75	77	85	85	77	67	79	76	69	76	74	72	71	75	80	77.3	
	MIN	56	56	55	56	45	76	45	44	49	50	49	50	42	45	49	48	55	64	52	59	59	48	49	36	44	49	54	42	53	65	51.5	
Audubon 2 S	MAX	84	79	79	77	72	74	78	79	79	83	62	56	64	74	73	76	78	85	84	77	72	71	71	63	75	75	72	62	65	72	73.7	
	MIN	58	54	53	48	46	44	46	48	50	56	50	48	42	45	48	51	51	60	59	59	53	49	50	38	39	43	52	49	48	51	49.6	
Bloomfield 2 N	MAX	86	79	85	70	75	73	78	77	83	80	70	65	76	75	78	83	84	81	70	73	63	70	66	77	80	83	80	83	76.2			
	MIN	55	56	52	51	43	40	40	53	57	59	60	54	46	44	48	68	63	61	51	51	35	37	40	53	63	61	63	61	51.6			
Delaware 2 W	MAX	80	78	80	72	75	76	80	78	84	80	67	63	68	72	75	76	78	85	76	70	67	74	65	62	70	67	72	72	71	78	73.7	
	MIN	54	52	48	45	43	39	43	48	53	55	59	53	54	50	42	50	45	55	59	55	51	48	42	33	38	43	53	51	58	60	49.3	

See reference notes following Station Index.

STATION INDEX

IOWA
DECEMBER 1950

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Observation time		Observer	Refer to tables
							Temp.	Precip.										Temp.	Precip.		
Akron	0088	Plymouth	1	42 49	96 33	1153		6P	Orlan C. Moore	3	Missouri Valley	5584	Harrison	3	41 33	95 34	1068	7P	7P	S. William Sorenson	2 3 4 5
Albia	0112	Monroe	6	41 02	92 48	949	8P	7A	Arthur L. Freed	2 3 5	5622	Jones	12	43 03	90 55	870	7P	7P	Arnold Hisinger	2 3 5	
Algona	0133	Kossuth	6	43 04	94 14	1200	7P	7P	Harry B. Nolte	2 3 5 7	5630	Clayton	14	43 03	91 22	-	-	-	-	Mrs. Anna W. Weiler	3 4
Allison	0157	Butler	4	42 46	92 47	1060	7P	7P	D. Tellinghuisen	2 3 5	5650	Montezuma	10	41 35	92 31	-	-	-	-	Roy Alexander, Jr.	3
Alta	0173	Buena Vista	30	42 40	95 18	1513	7P	7P	W. S. Slagle	2 3 5	5732	Johnson	10	41 44	91 26	-	-	-	-	Margaret R. Miller	3 4
Alton	0181	Sioux	7	42 59	96 01	1305	7P	7P	Charles H. Brown	2 3 4 5 6 7	5737	Johnson	10	41 45	91 25	-	-	-	-	Laurence J. Wall	3 4
Ames 3 SW	0205	Story	21	42 00	93 39	1004	7P	7P	State Reformatory	2 3 5	5743	Johnson	10	41 41	91 28	-	-	-	-	Habel Fuhrmeister	3 4
Anamosa 1 NW	0213	Jones	27	42 07	91 18	873	7P	7P	Bur. of Entomology	2 3 4 5	5769	Hinggold	9	40 44	94 14	1214	6P	6P	H. L. Cornelison	2 3 4 5	
Ankeny 2 SW	0241	Polk	6	41 43	93 38	-	5P	5P	Roy L. Fancolly	2 3 5	5796	Henry	21	40 37	91 32	730	6P	6P	A. W. Patterson	2 3 4 5	
Atlantic 1 E	0364	Cass	16	41 24	94 59	1110	6P	7P	-	-	5823	Woodbury	11	42 20	96 04	-	-	-	-	Joseph H. Bahner	3 4
Atlantic AP CAA	0369	Cass	16	41 24	95 02	1152	MID	MID	CLOSED - - - - -	12-1-50	5837	Muscataine	14	41 26	91 03	680	7P	7P	Y. J. Bauerback	2 3 4 5	
Audubon 2 E	0385	Audubon	16	41 42	94 57	1297	6P	6P	Ralph E. Kibby	2 3 5	5842	Muscataine	14	41 25	91 03	546	7A	7A	Robert B. Hagy	3	
Augusta	0389	Des Moines	21	40 46	91 17	523	3A	3A	Glen Wood	3	5872	Floyd	4	42 59	92 34	990	7A	7A	Herbert S. Swinton	3	
Bancroft	0463	Kossuth	6	43 18	94 13	1200	7P	7P	Guy D. Hart	2 3 5	5952	Chickasaw	27	43 04	92 19	1156	7P	7P	Lody Brulicka	2 3 5	
Bartlett 3 E	0453	Fremont	26	40 53	95 44	-	6P	6P	R. L. Kilpatrick	3 4	5992	Jasper	21	41 42	93 04	950	7P	7A	Al J. School	2 3 5	
Beaver	0549	Boone	6	42 02	94 08	-	6P	6P	Archie E. Sparks	3 4	6076	Iowa	4	41 29	95 05	780	7A	7A	Harriet E. Andrews	3 4	
Bedford 1 E	0576	Taylor	28	40 41	94 44	1215	6P	6P	H. J. Chambers	2 3 5	6103	Northwood	7	42 07	95 13	1222	7P	7A	Charles A. Walker	2 3 5	
Belle Plaine	0600	Benton	10	41 54	92 17	855	7P	7P	Walter C. Habe	2 3 5	6119	Page	22	40 45	95 12	1132	7P	7P	Soil Cons. Service	2 3 4 5 6 7	
Bellevue Lock & Dam 12	0608	Jackson	14	42 16	90 25	503	7P	7P	U. S. Engineers	2 3 4 5	6186	Johnson	10	41 43	91 24	-	-	-	-	Ward D. Reineke	2 3 5
Blackton 2 S	0745	Taylor	19	40 36	94 29	1081	7P	7P	Glenn A. Cobb	2 3 5	6200	Fayette	27	42 39	91 54	-	-	-	-	Ed Kadara	3 4
Bloomfield 2 N	0753	Davis	8	40 47	92 26	825	7P	7P	Mrs. Leo Foster	2 3 5	6243	Monona	15	42 02	96 06	1050	7P	7P	Thomas A. McMahon	2 3 5	
Boone	0807	Boone	6	42 04	93 53	1126	8P	6P	E. G. Kolb	2 3 5	6305	Mitchell	4	43 17	92 48	1170	6P	7A	R. A. Ballard	2 3 5	
Britt	0923	Hancock	10	43 04	93 49	1234	6P	6P	Rev. B. A. Rust	2 3 5	6316	Clarke	6	43 02	93 46	1136	6P	6P	Clarence W. Toity	2 3 5	
Burlington WB Airport	1063	Des Moines	14	40 47	91 07	595	MID	MID	U. S. Weather Bureau	2 3 4 5 7	6337	Wabasha	6	41 17	92 40	813	6P	6P	Mrs. E. W. Conard	3	
Carroll	1233	Carroll	20	42 04	94 52	1280	7P	7A	Hess H. Schenkelberg	2 3 5	6389	Wapello	6	41 06	92 27	842	MID	MID	Municipal P. & L. Pl.	2 3 4 5 7	
Carson	1243	Pottawattamie	16	41 14	95 25	-	6P	6P	C. J. Weira	2 3 4 5	6392	Wapello	6	41 06	92 24	620	7A	7A	Marvin A. Trees	3 4	
Cascade	1257	Dubuque	12	42 18	91 00	880	7P	7P	Bob Zimmerman	2 3 5 7	6406	Pella	6	41 24	92 55	875	7A	7A	William Stubbs	3	
Castana 4 E	1277	Monona	11	42 04	95 49	-	7P	7P	E. J. Cable	3	6456	Dallas	20	41 51	94 06	975	7P	7P	George Kaveling	2 3 5 7	
Cedar Falls	1300	Black Hawk	4	42 32	92 27	875	7P	7A	John T. Wurster	2 3 5 7	6566	Dallas	20	41 51	94 06	975	7P	7P	F. C. Beitelbacher	2 3 4 5	
Cedar Rapids No. 1	1319	Linn	4	41 59	91 29	813	7P	7A	John T. Wurster	2 3 5 7	6634	Harrison	15	41 50	95 55	-	-	-	-	Robert Babo	2 3 5
Cedar Rapids No. 2	1324	Linn	4	41 58	91 40	-	7A	7A	C. M. Simon	3	6719	Pocahontas	6	42 44	94 40	1228	7P	7P	Thomas A. McMahon	2 3 5	
Centerville	1354	Appanoose	5	40 43	92 53	1013	7P	7P	Karl McIntire	2 3 4 5	6800	O'Brien	11	43 05	95 38	1517	6P	6P	R. A. Ballard	2 3 5	
Chariton 3 E	1394	Lucas	5	41 09	93 15	940	7P	7P	Ellis Shaw	2 3 5	6840	Montgomery	16	41 01	95 13	1077	7P	7P	Clarence W. Toity	2 3 5	
Charles City	1402	Floyd	4	43 04	92 40	1013	MID	MID	U. S. Weather Bureau	2 3 4 5	6941	Montgomery	16	41 01	95 13	1077	7P	7A	Mrs. E. W. Conard	3	
Cherokee	1442	Cherokee	11	42 45	95 33	1358	7P	7A	J. Earl Wirth	2 3 4 5 6 7	6975	Flymouth	6	43 18	94 30	-	-	-	-	Municipal P. & L. Pl.	2 3 4
Clarece	1528	Cedar	4	41 53	91 03	-	6P	6P	Ronald W. Harness	3	7058	Emet	16	40 41	95 25	920	7P	7P	William Stubbs	3	
Clarinda	1533	Page	17	40 44	95 01	1004	7A	7A	Walter L. Weakland	2 3 5	7147	Fremont	1	43 28	96 10	1341	7P	7P	George Kaveling	2 3 5 7	
Clarion	1541	Wright	3	42 44	93 44	1170	7P	7P	George Reeder	2 3 5	7161	Calhoun	20	42 24	94 37	1223	7P	7P	F. C. Beitelbacher	2 3 4 5	
Clinton No. 1	1635	Clinton	14	41 50	90 11	589	7P	7P	Samuel W. Williams	2 3 5 7	7312	Sac	20	42 26	94 59	1274	6P	6P	W. Floyd Wery	2 3 5	
Clinton No. 2	1640	Clinton	14	41 50	90 11	-	7A	7A	David W. Swift	3	7326	Mitchell	4	43 21	92 55	-	-	-	-	Irvin E. Halverson	3 4
Columbus Junction	1731	Louisa	10	41 17	91 22	595	6P	6P	Alice Best	2 3 5	7340	Madison	6	41 16	93 47	-	-	-	-	Rose E. Wise	3 4
Coon Rapids	1793	Carroll	20	41 51	94 39	-	7A	7A	Charles E. Smith	3 4	7386	O'Brien	7	43 11	95 39	1552	7P	7P	Miss Susie O. Dow	2 3 5	
Coring 1 W	1833	Adair	17	41 00	94 45	1200	7P	7A	W. Earl Gibson	2 3 5	7410	Howard	22	42 22	92 22	-	-	-	-	Don A. Fairchild	2 3 5 7
Corydon	1848	Wayne	9	40 46	93 19	-	6P	6P	Robert L. Staffer	3 4	7572	Franklin	4	43 54	93 13	-	-	-	-	Richard J. Galvin	3 4
Council Bluffs 3 NE	1888	Pottawattamie	15	41 20	95 49	-	6P	6P	Mrs. H. O. Crane	3 4	7582	Pottawattamie	16	41 29	95 26	-	-	-	-	Loretta M. Denning	3 4
Council Bluffs 5 NE	1889	Pottawattamie	15	41 19	95 49	-	6P	6P	Perry C. Crandall	2 3 5 7	7594	O'Brien	7	43 10	95 51	1418	7P	7P	Ross E. Forward	2 3 5	
Cresco	1954	Howard	23	43 22	92 07	1285	6P	6P	Guy D. Humphrey	2 3 5	7602	Butler	7	42 43	92 35	-	-	-	-	John J. Apfel	2 3 4 5 7
Creston Airport 3 NE	1962	Union	19	41 06	94 20	1312	7A	7P	Midwest Airlines	2 3 5	7613	Page	16	40 46	95 23	974	6P	6P	Earl May Seed Co.	2 3 5 7	
Cumberland 5 NW	2007	Cass	17	41 18	94 55	1225	6P	6P	Carl E. Pollock	3	7664	Oceola	1	43 24	95 45	1494	6P	6P	Earl May Seed Co.	2 3 5	
Desh Moines	2026	Woodbury	11	42 28	95 40	1350	7P	7A	CLOSED - - - - -	12-1-50	7669	Fremont	16	40 45	95 38	1050	6P	6P	J. A. Shearer	2 3 5	
Dakota City	2037	Humboldt	5	42 44	94 12	1133	7P	7P	H. S. Brandegard	2 3 4 5	7678	Keokuk	31	41 20	92 12	780	7P	7P	Grace L. Sanderson	2 3 5	
Davenport WB City	2063	Scott	14	41 31	90 34	579	MID	MID	U. S. Weather Bureau	2 3 5 7	7700	Sioux Center	15	42 36	96 24	1456	7P	7P	Richard J. Kroon	3 4	
Decorah	2110	Winnebago	24	43 18	91 48	859	7A	7A	Phillip M. Johnson	2 3 5 7	7703	Plymouth	15	42 32	96 22	1093	MID	MID	U. S. Weather Bureau	2 3 4 5 7	
Decorah 2 S	2112	Winnebago	24	43 17	91 47	880	7P	7A	CLOSED - - - - -	11-3-50	7708	Woodbury	15	42 23	96 25	-	-	-	-	Don McKeever	3
Delaware 2 W	2136	Delaware	19	42 28	91 23	1083	7P	7A	Clair E. Paris	2 3 5	7726	Buena Vista	11	42 53	95 08	1275	7P	7P	W. A. Simonsen	2 3 5	
Des Moines 1 S	2171	Crawford	4	42 00	95 22	-	7P	7P	E. M. Hugg	3 4	7774	Monona	15	43 59	95 46	-	-	-	-	John T. Wade	2 3 4
Derby	2195	Lucas	5	40 56	93 27	-	6P	6P	Lloyd A. Kirk	2 3 4 5 7	7844	Clay	11	43 10	95 09	1331	MID	MID	Radio Station KICD	2 3 4 5 7	
Des Moines WB Airport	2203	Polk	6	41 33	93 39	954	MID	MID	U. S. Weather Bureau	2 3 5	7855	Winnebago	14	42 12	91 57	-	-	-	-	Louis J. Benda	3 4
Des Moines WB City	2208	Polk	6	41 35	93 37	800	M														

REFERENCE NOTES

The four digit identification numbers in the index number column of the Station Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

Observation times given in the Station Index are in local standard time.

Delayed data and corrections will be carried only in the June and December issues of this bulletin.

Monthly and seasonal snowfall for the preceding 12 months will be carried in the June issue of this bulletin.

Stations appearing in the Index, but for which data are not listed in the tables, are either missing or received too late to be included in this issue.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in °F, precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured in the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 6.

Sleet and hail were included in snowfall averages in Table 1, beginning with July 1948.

Amounts in Table 4 are from recording gages. Traces are not shown.

Amounts in Table 3 are from non-recording gages, unless otherwise indicated.

Data in Tables 3, 5, 6, and snowfall data in Table 7 are for the 24 hours ending at time of observation. See the Station Index for observation time.

Snow on ground in Table 7 is at observation time for all except Weather Bureau and CAA stations. For these stations snow on ground values are at 1830 CST.

- No record in Tables 3, 4, 6, 7, and the Station Index. No record in Tables 2 and 5 is indicated by no entry. When hourly precipitation is missing or accumulated for several days, only the first and last days are shown in Table 4.
- + And also on a later date or dates.
- * Amount included in following measurement, time distribution unknown.
- // Gage is equipped with a windshield.
- 6 Station not equipped with a recording gage. See Table 4 for 6-hourly measured amounts.
- B Adjusted to a full month.
- E Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of new snowfall.
- M One or more days of record missing; see Table 5 for detailed daily record. Degree Day data, if carried for this station, have been adjusted to represent the value for the full month.
- R Daily values and monthly total from recording gage. All other data in Table 3 are from non-recording gages.
- T Trace, an amount too small to measure.
- V Includes total for previous month.
- SS This entry in time of observation column in Station Index means observation made near sunset.

Subscription Price: 15 cents per copy; monthly and annual, \$1.50 per year. (Yearly subscription includes the Annual Summary.) Checks, postal notes and money orders should be made payable to the Treasurer of the United States. Remittances and correspondence regarding subscriptions should be sent to the Weather Records Processing Center, 804 Fidelity Building, Kansas City 6, Missouri.

CORRECTIONS

October 1950, Pocahontas, Table 2, Mean Temperature should be 56.3, Departure 5.0.

Pocahontas, Table 5, 4th Max should be 54, Min 29; 5th Max should be 59, Min 53; Mean Min should be 42.7.

Corning, Table 2, Mean Temperature should be 58.2, Departure 4.4.

Corning, Table 5, 30th Min should be 52, 31st Min should be 59, and Mean Min 45.0.

W.B.O., Kansas City, Mo. -- 2-20-51 -- 1110

U. S. DEPARTMENT OF COMMERCE
CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

In Cooperation With
IOWA DEPARTMENT OF AGRICULTURE
CLYDE SPRY, Secretary

CLIMATOLOGICAL DATA

IOWA

ANNUAL SUMMARY 1950

Volume LXI No. 13



KANSAS CITY: 1951

C. E. Lamoureux, Section Director - Des Moines

WEATHER SUMMARY

In Iowa the year 1950 was the ninth coolest of record. It was also rather dry despite above-normal precipitation during late spring and early summer. The average temperature for the year was 46.0°. Excepting October, which was unusually warm, all monthly temperature averages were below normal. July was the fourth coolest and August the third coolest of record, and combined with a moderately cool June to produce the second coolest summer average of record. Temperatures were persistently below normal for a 13 week period, from mid-June to mid-September. In contrast October was the fourth warmest of record, but the warm spell did not develop until after a general freeze on the 3rd and 4th brought the growing season to an end. Except for March, precipitation averaged above-normal amounts during the first seven months of the year, but the deficiency in soil moisture that developed late in 1949 was not overcome until May. Even during the wet months, inequalities in distribution caused some areas to suffer from lack of moisture at the same time that excessively heavy rains caused soil erosion and crop destroying floods in nearby areas. Precipitation became deficient in mid-August and thereafter, amounts were well below normal during the remainder of the year. As in 1949, a serious water shortage developed in some rural areas, especially in the south-central counties and in the northwest. The cool summer and the early general frost caused fear that there would be considerable spoilage of the unusually wet and immature corn crop, but the warm dry October weather provided ideal drying and harvesting conditions. New high temperature records were set at most stations during the last half of October.

The most outstanding single weather event of the year was an intense windstorm with speeds of gale and hurricane force over the entire state from 9 a.m. until midnight on May 5. Wind speeds in gusts reached an official peak of 90 mph at the Des Moines Airport at 1:31 p.m., and other airport locations reported unofficial readings of gusts up to 100 mph. The path of the low pressure area which gave these extreme winds was such that the counties bordering the Missouri and Big Sioux Rivers, especially north of Sioux City, experienced velocities of 20 to 30 mph less than the rest of the state. The center line of most extensive destruction was close to the 93rd meridian. This windstorm on a statewide basis was one of the most destructive in history. The lowest barometer reading for any date in May was recorded at Des Moines and Charles City. The storm left a trail of broken glass, tangled telephone and power lines, unroofed buildings, toppled trees, and miscellaneous damage. It made highway travel hazardous and most of the accidents that day could be attributed to the gusty winds. Reports from several Iowa insurance companies attested to the severity and widespread character of the storm. The number of claims made upon these companies was twice that of the windstorm of October 10, 1949, which was also outstanding. Several companies reported loss claims for damage would exceed anything experienced in their history. One, operating mainly in rural areas, received over 44,000 claims totaling over \$3,000,000. Another firm, operating mainly in towns, received over 17,000 claims. A conservative estimate of the damage was placed at over five million dollars. Three persons were killed and 22 were injured.

January was an open winter month with near normal temperatures and precipitation. Average temperatures varied from 7 to 9 degrees below normal in the northwest counties to slightly above in the east. A severe cold wave on the 25th-27th and another cold period at the end of the month, brought sub-zero readings to all except the southeast quarter of the state; Decorah reported -31° on the 27th. Precipitation amounts varied widely with greatest falls in the southeast and east-central counties. The average was slightly above normal for the first time since June 1949. Late in the month, moderate snow fell over all except the southeast section.

February temperatures averaged near normal, but precipitation was again slightly above. The average snowfall, 11.5 inches, was six inches more than normal and the sixth greatest for February in 59 years. The coldest period was the 24th-26th with Clarion reporting -24° on the 26th. Thereafter, temperatures rose rapidly and there were numerous

thunderstorms the night of the 27th. Flooding occurred in the southwest and Highway No. 2, east of Sidney, was closed by high water. Near Missouri Valley, levees on the Boyer River broke.

March was cold and dry. The four days 4th-7th, the 26th and 31st were warm, but otherwise temperatures were consistently low. Blizzard conditions were reported in parts of the northern and western sections on the 7th. Near Council Bluffs the wind velocity averaged 61 mph for five minutes with gusts up to 82 mph. Power and communication lines were down and buildings damaged. Heaviest snow was in the northwest. Heavy rains in northeast Iowa the 26th-28th caused the Cedar River to flood at Charles City and required evacuation of 75 families. Damaging hail attended the rain in east-central Iowa. In the quad-cities, greenhouses, windows and roofs sustained \$7500 damage.

April was cold, windy and cloudy and was the most backward spring month since 1920. Consistently cool temperatures prevailed three-fourths of the time. The first three weeks were dry, but much needed rains came the 22nd-25th, and again on the 29th-30th. Locally strong winds and hail caused some damage. On the 8th-9th freezing rain fell in the area north of Highway No. 6 and east of Highway No. 69, covering the section with a sheet of ice. The storm was worst at Clinton with estimates of \$1,000,000 loss, of which \$200,000 was to telephone lines. The National Guard was called out to help clear away the wreckage, but electric power service at Clinton was not restored until April 14.

May was cool and wet with temperatures slightly lower than usual. Measurable precipitation occurred at some station or other on every day during the month with rather general falls on about 15 days. The heaviest amounts were in a wide zone extending from southwest to northeast. Several stations in the southwest quarter, and others near the center of the State, received more than 8 inches. Freezing temperatures occurred on the first with a state low of 22° at New Hampton. In the next two days, temperatures went from cold to hot and maxima reached 90° in the southwest on the 4th. A severe windstorm on the 5th was the most remarkable feature of the year's weather and is discussed in a preceding paragraph. Seasonable or above temperatures were the rule the last two-thirds of the month. A reading of 94° was observed at Inwood and Sioux City on the 23rd. General rains on the 8th-9th were heaviest in the southwest and south-central counties where amounts of 4 to 5 inches were common. Streams in the area overflowed adjacent lowlands. Heavy rains on the 23rd sent the Boyer and Nishna-botna rivers out of their banks.

June was cool and wet. It was the fourth consecutive month with subnormal temperatures and crop growth remained behind schedule. A low of 34 was recorded at Oakland on the 4th, while the month's high was 100° at Shenandoah on the 25th. On the 5th a tornado cut a 300 yard wide path for a distance of five miles, passing south of Nevada and Ames. Extensive hail damage occurred in western counties on the same day with greatest loss in Crawford County near Schleswig, Dow City and Manilla. Locally heavy rains fell on the 9th and again on the 12th-13th. Some flooding was reported on the west Boyer River west of Denison. Flash floods occurred northwest of Indianola on the 13th. Heavy rains that covered most of the state the 17th-19th were followed by flooded farm bottom lands along the lower Iowa and lower Des Moines Rivers the 18th-20th. Heavy precipitation along the middle portions of the Iowa and Cedar watersheds preceded more floods along the Iowa River Valley.

July was the 4th coolest of record, and the 5th consecutive month with below-normal temperatures. Only 1882, 1891, and 1915 had lower average temperatures. There were few days with 90° readings and the state low was 39° at Elkader on the 14th. For the fourth successive month, precipitation exceeded the normal, most of it coming during the first two-thirds. Totals at individual stations ranged from 0.66 at State Center to 12.17 inches at Saratoga. Thundershowers at the beginning of the month were attended by hailstorms in many localities. Heavy crop damage was reported near

Tipton. Broken drainage dikes near Nichols flooded more than 700 acres. During a showery period the 9th-12th, railroad tracks were washed out and other damage caused in Plymouth County. Showers in the period 15th-20th were attended by numerous hailstorms in the northern counties. Considerable loss was reported in Sioux and O'Brien Counties, especially in a ten-mile-wide strip from Orange City to Sheldon and Primghar. Flash floods occurred in the Little Cedar and fairly high stages were reached in the Turkey and upper Iowa Rivers. Damages to highways and bridges were estimated at \$50,000 to \$60,000 in Howard County. The northeast counties also had spotted heavy hail damage.

August was the third coolest of record, ranking behind August 1915 and 1885. The average of the three summer months was the second coolest of record. The August record low of 30° was equaled at Britt and Sibley on the 20th. The original record set at Elkader August 30, 1893, was equaled at Mason City August 30, 1915. This year's low came ten days earlier than it had in the previous years. After four consecutive wet months, precipitation averaged well-below normal. Most of the northeast half had less than 50% of the usual amount and only the southwest corner received above-normal amounts. Station totals ranged from more than nine inches near Council Bluffs to only 0.36 inch at Emmetsburg. A brilliant aurora was observed the night of the 19th.

September was rather cool and dry. Temperatures were below normal except for moderately warm readings during the third week. This warm spell broke a string of 13 consecutive weeks with subnormal temperatures that began back in mid-June. Scattered frost was reported from many stations on the 24th with some damage, especially in the northeast. The month's low of 24° occurred that morning at Decorah. The highest was 92° at Atlantic on the 19th. Precipitation amounts again varied greatly and ranged from less than 1/10 inch at Sioux City, to more than nine inches at Independence. Excessively heavy rains fell in northern counties on the 20th. Eldora had 7.45 inches in a few hours, more than six inches fell at Emmetsburg, Hubbard and Independence and more than five inches at Radcliffe and Buckeye in 24 hours. Basements were flooded and streets damaged in Waterloo. Otter Creek flooded five homes in Zwingle. Numerous flash floods occurred at other points. Two bridges were washed out, two others covered by flood waters. Near

Independence, a freight train was derailed as a result of a trestle being weakened by the heavy rain.

Dry weather continued through the fourth warmest October of record. Most of the precipitation occurred during the first week and only the extreme northwest received more than the normal amount. The heaviest falls came on the 1st-2nd, with over four inches in Mills, Montgomery, Page and Fremont Counties. A cold wave followed the rains and the temperature fell to 25° at Britt on the 3rd. A more general freeze occurred the next morning, and the growing season was effectively ended except for a few sheltered spots, and in lowlands along the Mississippi River. After the 8th the weather was warm and dry and was ideal for drying the late and wet corn crop. Record high temperatures for individual dates were set on the 16th, and again during the last two days of the month. The state high was 94° at Iowa City on the 18th; the low 19° at Saratoga on the 25th.

November was cold and dry and was marked by rapid temperature changes with periods of both cold and warm extremes. The October warm spell carried over only through the first of November. A colder change that moved in on the 2nd brought the first snow of the season. The cold continued until a warm wave on the 14th-15th brought record high temperatures on the latter date at many points. This was followed by a change to much colder. Another cold wave overspread the state on Thanksgiving Day, the 23rd, with strong northerly winds, snow flurries, and zero or near zero temperatures. The lowest was -11° at Cresco on the 24th.

December was also cold and dry, the 2nd coldest in the past twenty years. The state low of -36° at Decorah on the 27th, has been exceeded only once and equaled only once during December, in the entire period of record. Snowfall amounts varied from a trace in the southwest to more than 24 inches in Chickasaw County. Snow that fell early in the month caused icy conditions on highways in the northern counties that continued the entire month in some sections. The persistent dry weather brought on a pronounced water shortage in the south-central district. In an area comprising about twenty counties, farmers had to haul water for livestock and domestic uses. Water shortages were also reported in the northwestern sections.--SED

ACKNOWLEDGMENTS

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclimatic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$25,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Federal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Table 1

IOWA
1950

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	Temp	Departure	
Albia	24.6	1.5	26.7	1.1	34.2	-3.8	45.0	-5.5	62.5	-.9	89.4	-1.2	70.8	-5.3	68.5	-5.5	64.5	-1.5	60.8	6.5	35.0	-4.8	21.0	-6.0	48.6	-2.0	
Algona	12.1	-4.6	20.0	-.4	28.3	-4.8	40.3	-7.3	57.6	-2.0	68.0	-.8	69.1	-4.9	67.3	-4.1	61.8	-1.3	56.4	5.3	31.5	-3.9	16.3	-5.6	44.1	-2.8	
Allison	18.0M	1.5	19.5	-1.0	28.7	-4.8	-	-	59.1	-2.7	67.5	-1.3	70.5	-3.5	68.5M	-2.7	-	-	56.5	5.0	30.3M	-5.1	14.7M	-7.2	-	-	
Alta	11.4	-6.2	21.1	-.9	28.3	-4.0	41.1	-6.2	56.8	-3.2	67.7	-1.2	68.6	-5.4	67.1M	-5.5	63.0	-.4	58.6	5.1	32.6	-2.9	18.3	-4.4	44.4	-2.9	
Alton	12.8M	-4.0	22.5M	1.3	30.8M	-2.4	42.3	-5.0	58.2	-.8	69.6	-.7	70.1	-4.4	68.4	-3.6	64.4	1.1	58.5M	7.9	33.4M	-2.0	19.4M	-2.9	45.9	-1.1	
Ames 3 SW	18.4	-1.5	21.6	-1.2	31.1	-4.8	43.2	-5.8	59.7	-.9	68.2	-1.8	69.5	-5.4	67.9	-4.5	63.1	-1.3	58.1	5.5	33.1	-4.5	18.5	-5.9	46.1	-2.6	
Anamosa 1 NW	21.8	2.8	21.3	-.7	30.4	-3.8	42.0	-5.6	60.0	-.1	67.2	-2.0	68.3	-5.5	67.1	-5.0	62.4	-.7	57.0	4.9	32.1	-4.7	16.0	-8.2	45.5	-2.3	
Ankeny 2 SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atlantic 1 E	19.6	-1.7	25.3	1.1	33.1	-4.0	44.4	-5.6	60.6	-.5	69.1	-1.3	70.1	-5.9	68.9M	-4.9	63.5	-1.7	58.5	5.4	34.8	-3.6	23.0	-2.6	47.5	-2.2	
Atlantic CAA AP	17.4	-3.9	23.1	-1.1	31.1	-6.0	42.7	-7.3	58.7	-2.4	66.9	-3.5	67.7	-8.3	65.8	-8.0	60.9	-4.3	55.6	2.5	32.2	-6.2	21.1	-4.5	45.3	-4.4	
Audubon 2 S	16.4	-3.6	23.1	-.4	30.2	-5.4	42.5	-6.4	57.7	-2.6	66.9	-2.5	68.5	-6.5	66.2	-6.5	61.7	-2.5	57.0M	3.6	32.9	-4.2	20.3M	-4.2	45.3	-3.3	
Bancroft	12.1	-3.0	20.5	2.6	27.9	-3.6	40.4	-6.4	58.0	-.0	68.8	1.5	70.6	-2.6	68.6	-1.6	63.2	1.4	56.5	6.7	31.2M	-2.8	15.9	-4.6	44.5	-1.0	
Bedford 1 N	23.1	-.2	27.4M	-.9	34.4	-4.3	45.2	-5.8	61.2	-.3	69.2	-2.0	69.3	-7.2	67.9	-6.2	63.9	-2.6	59.9M	5.1	36.2M	-3.5	23.2M	-3.6	46.4	-2.5	
Belle Plaine	21.5	1.4	23.2	-1.1	31.4	-4.6	43.0	-6.1	61.0	-.3	68.6	-2.6	70.4	-4.8	69.0	-3.3	63.9	-.5	58.3	5.8	32.6	-5.2	17.4	-7.0	46.6	-2.2	
Bellevue L & D 12	23.7M	2.4	23.0	-.5	30.1	-6.1	41.7	-6.0	59.2	-1.4	67.3	-1.7	68.5	-5.5	66.4	-4.7	61.5	-2.5	55.6M	4.4	34.4	-4.3	18.2	-7.3	45.8	-2.7	
Bloomfield 2 N	24.3M	-.1	26.6	-.9	34.8M	-4.1	45.6M	-4.7	63.7M	1.6	70.3M	-1.4	71.1M	-6.5	68.1	-7.2	63.9M	-3.3	59.7M	4.5	34.8M	-5.7	18.6M	-8.7	49.5	-3.0	
Boone	17.6	-2.4	22.8	-.5	31.3	-5.2	43.1	-5.8	60.6	-.4	69.6	-.4	71.9	-4.1	68.9	-4.1	64.7	-.3	59.4	5.5	-	-	19.6	-5.4	-	-	
Britt	10.2M	-5.6	14.3	-4.6	23.1	-9.5	37.3	-9.3	54.9	-3.8	64.6	-3.4	67.7M	-5.7	67.4M	-3.9	62.3	-2.5	54.1M	3.6	32.0M	-2.7	15.0	-6.2	41.9	-4.3	
Burlington WB AP	26.5	2.6	26.8	-.4	34.2	-3.7	44.6	-6.8	62.4	-.3	69.2	-2.3	71.2	-5.6	66.3	-5.7	64.8	-1.8	59.6	4.8	33.7	-5.9	20.2	-7.5	48.5	-2.5	
Carroll	17.1	-2.1	23.2	1.3	31.5	-3.6	43.1	-5.3	60.4	-.5	69.9	-.8	71.0	-3.7	66.3M	-5.8	62.8	-1.0	57.7M	5.6	33.5	-3.3	19.9	-4.1	46.4	-1.7	
Cascade	21.9M	21.4	29.8	41.7	59.9	67.8	68.9	67.0M	62.4	56.1	31.8	17.1	45.5	45.3													
Castana 4 E	14.2	22.4	30.4	42.5M	58.4	68.1	68.7M	66.5M	61.9	56.5M	31.8	17.1	45.5	45.3													
Cedar Rapids No 1	22.2	1.9	23.1	-.2	31.9	-4.0	42.9	-6.1	61.0	-.1	68.7	-1.6	70.2	-5.4	68.4	-4.2	63.5	-1.4	58.3	5.3	33.1	-4.9	17.6	-7.2	46.7	-2.3	
Centerville	26.4	2.3	27.9	1.1	35.7	-3.1	46.1	-5.1	63.4	-.7	69.8	-1.8	70.7	-6.6	69.1	-5.6	64.7	-2.3	61.0	5.8	36.0	-4.8	22.2	-5.1	49.4	-2.1	
Chariton 3 E	24.2	1.3	25.5	-.1	34.1	-3.8	45.8M	-4.2	61.5	-.7	68.8	-1.0	69.4	-6.0	67.7	-5.8	62.6M	-3.1	-	-	35.3	-4.7	21.1	-5.9	-	-	
Charles City	13.7	-1.7	17.9	-.6	27.1	-5.2	39.6	-6.8	58.3	-.2	66.8	-1.0	69.0	-4.1	66.9	-3.4	61.5	-.4	55.9	6.0	30.1	-4.7	13.4	-7.5	43.3	-2.5	
Cherokee	11.2	-6.2	21.3	-.8	28.5	-5.1	40.4	-7.1	56.9	-2.7	67.5	-1.1	68.6	-5.5	67.1M	-5.0	62.2	-1.5	55.8	4.6	32.3	-2.8	17.7	-5.1	44.2	-3.0	
Clarinda	21.3	-1.7	29.2	3.0	35.5	-3.3	47.1	-4.1	62.8	1.0	70.7	-.6	70.2	-6.5	68.1	-6.6	64.0	-2.1	59.3M	4.8	36.2M	-3.6	24.9	-.9	49.1	-1.7	
Clarion	13.8	-3.2	17.7	-2.6	27.6	-6.1	40.1	-7.7	57.3	-2.2	67.4	-1.6	68.7	-5.5	68.4	-5.1	61.6	-1.9	55.5	4.5	30.5	-5.8	14.7	-7.7	43.8	-3.8	
Clinton No 1	26.8	3.8	25.4	-.9	32.7	-4.1	43.6	-6.2	62.7	1.5	69.8	-.6	71.6	-3.8	68.8	-4.3	64.3	-.8	58.6	5.0	34.4	-5.1	18.9	-8.4	48.1	-1.9	
Columbus Junction	26.3	3.0	25.6	-.2	33.8	-4.3	45.0	-5.7	62.5	-.7	69.2	-1.4	70.2	-5.4	68.3	-4.7	64.4	-.9	60.0	5.7	34.6	-5.3	19.2	-8.2	48.2	-2.2	
Corning 1 W	20.2	-2.3	25.5	-.3	33.6M	-3.9	42.7M	-7.3	61.4	-.6	69.5M	-.7	-	-	66.5M	-7.1	63.7M	-1.8	58.2	4.4	34.7	-4.4	23.1	-3.3	-	-	
Council Bluffs 5 NE	18.8	25.9	34.2	45.6	60.6	69.3	69.3	68.0	61.6	57.6	35.7M	24.8	47.6														
Cresco	15.9	1.9	18.1	-.6	25.9	-4.1	40.0	-5.5	56.8	-.7	65.6	-.9	68.1	-3.4	65.5	-4.0	61.2	1.1	55.4M	6.8	29.5	-4.7	12.4	-7.7	42.9	-1.7	
Creston 2 SW	21.0	-.3	24.6M	-.8	33.0	-2.7	44.7	-5.2	61.1	1.0	68.8	-1.0	69.1	-6.3	66.6	-6.6	63.1	-2.0	-	-	-	-	-	-	-	-	-
Cushing 3 NE	12.0	-6.7	21.7	-.2	30.0	-4.7	42.2	-6.1	58.7	-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dakota City	13.6	-4.1	20.6	-.2	28.8	-5.4	41.0	-7.1	58.0	-1.7	68.0	-.9	69.5	-4.9	67.1	-4.5	62.4	-1.1	56.8	5.1	32.0	-4.3	15.9M	-7.1	44.5	-3.0	
Davenport WB City	26.0	2.8	25.7	-.3	33.3	-4.4	43.9	-6.2	62.8	-.9	70.5	-.8	73.0	-3.8	69.7	-4.5	65.2	-1.2	60.5	5.8	35.0	-5.2	20.0	-7.4	48.8	-2.0	
Decorah	17.9	18.4	26.5	41.5	59.3	68.2	68.9	67.2	60.9	55.5	30.6	13.1	44.0														
Decorah 2 S	16.1	1.6	16.7	-.5	25.3	-5.7	39.0	-5.8	56.7	-.5	64.8	-.7	65.6	-5.4	62.9	-7.3	58.2M	-2.8	52.8M	4.8	-	-	-	-	-	-	
Delaware 2 W	18.8	1.1	19.8	-.4	27.5	-5.4	40.7	-5.9	58.8	-1.1	65.6	-2.8	68.0	-5.3	65.7	-4.7	61.5	-1.1	56.2	4.7	31.0M	-4.4	15.1	-7.3	44.0	-2.7	
Dennison 1 S	13.9	-5.7	21.6	-1.0	30.3	-5.6	42.3	-6.8	59.0	-1.2	68.3	-1.1	69.3	-5.6	67.0	-5.6	61.8	-2.6	57.0	4.4	32.8	-4.5	20.6	-7.3	44.5	-3.3	
Des Moines WB AP	19.7	-1.3	23.1	-.7	32.2	-4.3	43.8	-5.4	61.1	1.6	68.0	-1.2	70.9	-4.7	68.4	-4.5	65.2	-.3	60.0	6.3	33.9	-3.9	20.1	-5.5	47.3	-2.1	
Des Moines WB City	20.4	-1.8	23.9	-1.0	32.5	-5.0	44.2	-5.8	61.7	-1.7	70.1	-1.0	71.6	-5.1	69.2	-4.8	65.9	1.6	60.2	5.9	34.7	-4.8	20.8	-5.7	47.8	-2.5	
Dubuque L & D 11	21.9	1.6	20.0	-2.6	27.7	-7.4	40.3	-8.4	57.6	-2.7	66.9	-2.5	68.5	-6.3	67.5	-4.6	62.5	-1.6	56.1	3.6	32.3	-5.8	15.3	-9.7	44.7	-3.9	
Dubuque WB City	21.6	1.3	23.3	-.7	30.3	-4.8	41.7	-7.0	60.8	-.5	68.4	-1.0	71.0	-3.8	68.5	-3.6	63.6	-.5	58.5	6.0	33.3	-4.8	18.3	-6.7	48.6	-2.0	
Elkader	17.8	-.8	18.8	-.9	27.3	-5.3	40.2	-7.4	57.9M	-.7	65.8	-1.4	67.0	-5.3	64.2M	-5.9	61.2	-1.3	56.3M	5.9	31.2M	-4.4	15.2	-7.0	43.6	-2.7	
Emetsburg	10.8	20.0	28.0	40.2	57.4	67.0M	68.7M	67.3	61.3	55.1	31.6	16.8M	43.7														

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

IOWA
1950

Table 1-Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure	Temp.	Departure
Pocahontas	12.5M	-4.4	20.2	-.2	28.0M	-6.0	38.6M	-9.4	56.7	-2.5	68.0	-.6	69.0	-4.9	66.3M	-5.2	62.2	-1.4	56.3	5.0	31.5	-4.1	16.6	-6.0	43.8	-3.3
Primghar	10.3	-5.5	22.5	2.7	28.7	-3.3	40.4	-6.6	57.7	-1.1	68.9	-.4	69.4	-5.0	68.1	-4.4	62.9	-.8	55.5	4.7	32.9	-1.6	17.4	-4.6	44.5	-2.1
Red Oak	20.3	-2.6	26.0	-.2	33.7	-5.4	45.6	-5.6	61.0	-.6	69.0	-2.6	69.4	-6.9	67.9	-6.6	62.6	-3.4	57.7	3.2	34.9	-4.3	24.0	-1.6	47.6	-3.1
Rock Rapids	7.1	-7.7	20.1	1.7	27.1	-5.4	39.1	-7.7	55.6	-2.8	68.0	-.4	67.9	-5.8	67.1	-4.5	62.2	-.3	53.5	4.2	31.2	-1.4	17.8	-2.8	43.0	-2.8
Rockwell City	14.4	-3.8	21.3	-.3	29.9	-5.0	42.2	-6.2	58.9	-.9	68.3	-1.2	69.4	-5.2	67.3	-4.8	62.8	-1.2	56.9	4.6	32.5	-4.4	16.2	-5.3	45.2	-2.8
Sac City	13.4	-5.2	22.7	1.2	30.6	-3.9	42.8	-5.8	59.2	-.5	69.5	-.5	69.2M	-5.2	68.4	-3.7	64.5	-.7	58.5	6.8	33.8	-2.6	19.6	-3.8	46.0	-1.8
Sanborn	8.4	-6.4	20.7	1.8	26.9	-4.6	39.4	-6.8	56.2M	-2.2	67.7	-.3	68.5	-5.3	66.7	-4.2	61.6	-.9	54.2	4.2	31.6	-2.5	16.9	-3.5	43.2	-2.6
Saratoga 2 E	14.2	-	18.1	-	24.8	-	38.2	-	55.2	-	64.2	-	65.9	-	64.2	-	58.8	-	53.7	-	27.9	-	10.4	-	41.1	-
Sheldon	8.3	-6.7	20.0	1.1	26.8	-5.1	39.1	-7.4	56.0	-2.5	67.3	-.6	67.5	-6.1	66.0	-5.6	61.3	-1.5	53.4	3.0	30.9	-3.3	16.9	-4.0	42.8	-3.2
Shenandoah	22.3	-1.5	28.7	2.0	35.8	-4.2	47.5	-4.5	63.0M	-.0	71.9	-.6	71.1M	-7.2	69.9	-6.6	64.6M	-2.4	59.8	4.3	36.8	-3.2	25.7	-1.3	49.8	-2.1
Sibley	6.7	-7.1	18.9	1.9	26.0	-4.8	38.2	-7.8	54.8	-2.6	66.5	-.8	66.5	-6.0	65.5	-4.1	60.6	-1.0	52.3	3.3	29.2	-3.3	14.9	-5.1	41.7	-3.1
Sidney	21.3	29.3	29.3	35.5	47.5	63.0	72.8	72.8	72.8	72.8	72.8	72.8	71.5	70.1	65.0	65.0	61.0	61.0	61.0	61.0	38.3	37.4	27.4	27.4	50.3	50.3
Sigourney	24.8	2.4	25.0	-.2	33.3	-3.9	44.9	-5.8	62.5	-.7	72.8	-2.0	71.2	-5.0	69.4	-4.4	65.4M	-.4	60.5	6.3	34.8	-4.8	19.2	-7.5	45.6	-1.8
Sioux City WB AP	12.4M	-5.9	21.1	-.3	29.5	-4.6	42.8	-6.3	58.1	-1.8	68.7	-.8	70.1	-5.1	68.5	-4.0	63.1	-.5	55.7	4.5	32.3	-3.7	20.9	-1.1	45.3	-2.4
Sioux Rapids	7.4	-9.0	16.2	-3.6	26.1	-6.9	38.8	-8.2	56.8M	-2.7	67.7	-1.1	68.0M	-5.9	66.7M	-5.2	61.2	-2.6	54.8	3.9	30.8M	-4.1	16.1	-6.4	42.5	-4.4
Spencer 1 N	10.0	-4.8	17.4	-.7	27.8M	-4.1	-	-	-	-	-	-	67.2M	-6.6	65.6M	-5.9	60.5	-3.2	53.5	2.6	28.5	-5.6	14.3M	-7.1	-	-
State Center	21.1M	1.1	23.4	-.4	31.2	-4.7	-	-	61.4	-.9	69.4	-.4	71.3	-3.7	69.2	-3.5	64.0	-.3	59.0	6.0	33.1	-4.9	20.0	-4.5	-	-
Storm Lake 2 E	11.8	-5.8	20.0	-.2	28.8	-5.2	41.1	-6.3	57.8	-1.4	68.2	-.3	68.9	-5.3	66.6M	-5.3	62.1	-1.4	56.0	4.4	32.0	-4.0	17.5	-5.2	44.1	-3.1
Tingley	20.1	-2.6	24.0	-1.3	32.2	-5.6	44.5	-6.0	61.5	-.1	68.7	-2.0	69.5	-7.4	67.5	-6.7	63.8	-2.0	59.6	5.2	35.0	-4.6	22.9	-4.5	47.4	-3.2
Tipton	24.9	4.1	24.4	-.9	31.8	-4.6	43.7M	-5.2	60.5	-.4	67.5	-2.5	69.7	-5.8	67.8	-4.9	63.4	-1.2	58.5	5.4	33.7	-4.5	-	-	-	-
Toledo	21.2	-.6	22.6	-.4	31.0	-5.1	43.0	-6.1	60.4	-.0	68.0	-1.2	69.6	-5.0	68.1	-4.1	63.5	-1.0	59.5	6.4	33.5	-4.8	18.1	-6.6	46.5	-2.3
Tripoli	18.9	-	20.4	-	29.0	-	41.6	-	59.7	-	67.4	-	69.7	-	68.0	-	62.6	-	57.5	5.1	32.8M	-4.4	16.9M	-7.0	46.3	-2.3
Vinton	21.2	-1.7	21.2	-1.7	30.6M	-5.4	42.8	-6.7	62.7	1.8	68.1M	-1.5	70.7M	-4.3	67.7	-4.6	62.9	-.8	57.7M	5.9	33.9	-5.6	19.0	-7.5	48.4	-2.0
Washington	25.3	2.6	25.7	-.2	33.7	-4.5	44.9	-5.7	62.8	1.0	69.7	-.9	71.0	-4.7	69.6	-3.7	65.1	-.6	60.0	-	-	-	-	-	-	-
Waterloo	18.3	-.9	19.8	-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	32.3	-4.6	16.1	-7.2	-	-
Waterloo	-	-	-	-	28.4	-6.3	40.2	-8.2	59.5	-.6	-	-	70.3	-4.3	67.6M	-4.4	62.9	-.9	57.0	4.9	32.3	-4.6	16.1	-7.2	-	-
Waukeese	21.4	-.6	25.1	-.8	33.7	-3.0	45.6	-4.0	61.7	-.5	70.5	-.1	71.7	-3.9	69.8	-3.5	65.8	-.4	59.6M	6.4	31.8	-6.7	21.7	-4.2	48.2	-1.4
Waukon	16.7	1.0	19.3	1.6	27.6M	-3.7	39.8	-6.8	57.2	-1.3	65.1	-1.9	67.6	-4.3	65.4	-6.1	60.5M	-.8	55.2	5.2	29.5	-4.7	14.4	-7.1	43.2	-2.4
Webster City	15.2	-2.0	18.6	-2.3	29.4	-5.1	41.9	-5.7	58.9	-.8	68.0	-.8	69.8	-4.7	67.8	-3.9	62.3	-1.6	56.1	4.6	31.8	-4.4	16.9	-6.0	44.7	-2.7
Williamsburg	22.6	1.9	22.8	-1.0	31.9	-5.1	44.2M	-5.5	61.7	-.6	68.7	-1.5	69.9	-5.9	68.3	-4.3	63.9	-1.1	58.8	5.5	36.5M	-2.0	-	-	-	-
Winterset	23.1	-.5	25.9	-.4	33.9	-4.0	45.9	-4.7	61.9	-.0	70.3	-.8	71.1	-5.5	68.6	-5.7	65.1	-1.0	60.9	6.3	36.1	-3.6	23.2	-3.6	48.8	-1.8
Woodward 7 N	20.8M	-.3	23.4	-.4	32.6	-4.0	44.6	-4.3	60.4	-.1	68.3	-1.8	69.9	-5.6	68.0	-5.0	63.9	-.6	60.1	7.3	35.3	-2.6	21.7	-3.3	47.4	-1.6
Section Average	18.4	-1.3	22.4	-.2	30.7	-5.0	42.6	-6.3	59.8	-.6	68.4	-1.1	69.7	-5.2	67.7	-4.9	63.0	-1.4	57.7	5.2	33.1	-4.3	18.8	-5.6	46.0	-2.6

See reference notes following Station Index.

SOIL TEMPERATURES

IOWA
1950

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.

AMES

At a depth in the soil of 1 inch													
Average 7 AM	18.4	25.0	28.6	38.4	54.6	64.4	66.8	64.7	57.5	48.1	30.1	19.7	43.0
12 Noon	22.4	26.9	33.4	47.9	67.2	77.1	81.9	78.6	73.9	59.4	35.9	22.9	52.3
7 PM	22.1	27.5	32.3	47.0	63.9	76.0	80.3	76.4	69.6	57.1	35.0	23.0	50.9
Highest	39°	32°	54°	69°	84°	89°	90°	92°	85°	76°	58°	32°	92°
Date	2	6+	26	22	24	16	28+	8+	1	1	13	23	8-8+
Lowest	5°	13°	19°	31°	33°	51°	59°	52°	43°	33°	13°	-2°	-2°
Date	16	3+	13	6+	1	3	13	20	24	25	24	27	12-27
At a depth in the soil of 2 1/4 inches													
Average 7 AM	19.4	25.3	28.7	38.7	53.6	63.9	66.9	65.3	58.3	49.3	31.6	21.0	43.5
12 Noon	22.6	26.9	33.4	46.8	65.4	75.6	81.3	78.3	73.0	61.4	37.4	24.0	52.2
7 PM	22.9	27.7	32.4	47.2	63.6	75.2	79.2	75.6	69.0	57.9	35.9	23.9	50.9
Highest	38°	32°	53°	63°	80°	87°	90°	92°	83°	75°	57°	32°	92°
Date	2	6+	26	22+	24	16	28	9	1	1	1	23	8-9
Lowest	7°	15°	18°	31°	35°	51°	60°	54°	45°	36°	17°	3°	3°
Date	16	4	13	6+	1	4	13	20	24	25	24	27	12-27
At a depth in the soil of 4 inches													
Average 7 AM	21.9	26.1	30.4	40.5	54.7	65.3	69.3	67.7	61.6	52.4	35.2	23.6	45.7
12 Noon	23.6	28.7	31.8	45.1	60.6	70.6	75.5	73.2	68.2	57.0	36.7	24.6	49.5
7 PM	24.4	27.4	32.4	48.0	63.7	75.7	80.4	77.6	72.3	59.7	38.4	25.5	52.1
Highest	34°	31°	45°	63°	75°	84°	87°	87°	81°	69°	59°	31°	87°
Date	2	7	31	22	23+	25	28	16	3	1	1	2	7-28+
Lowest	12°	16°	25°	34°	37°	53°	63°	59°	52°	42°	22°	8°	8°
Date	16+	3+	2	4+	1	4	13+	20	24+	25	24+	27	12-27
At a depth in the soil of 8 inches													
Average 7 AM	25.0	26.6	30.8	43.1	56.4	67.1	71.8	70.4	64.9	55.5	39.1	26.4	48.1
12 Noon	25.1	28.8	30.9	43.2	56.9	67.1	71.8	70.1	64.7	55.5	38.8	26.5	48.1
7 PM	25.8	27.0	31.4	46.8	60.6	71.7	76.5	74.2	69.0	58.5	39.8	27.0	50.7
Highest	32°	30°	40°	58°	71°	78°	81°	82°	76°	66°	60°	31°	82°
Date	1+	8+	31	23	24	16+	28+	9	1+	1	1	1+	8-9
Lowest	17°	18°	27°	36°	41°	57°	66°	64°	58°	48°	28°	17°	17°
Date	30	3	2+	5+	1	4	20	30	24+	25	25+	27	1-30+
At a depth in the soil of 20 inches													
Average 7 AM	31.4	29.5	31.5	42.1	53.1	63.3	68.7	68.4	64.9	58.1	46.5	34.4	49.3
12 Noon	31.7	29.8	31.6	42.4	53.4	63.5	69.1	68.7	65.2	58.6	46.6	34.6	49.6
7 PM	31.5	29.6	31.6	42.1	53.2	63.3	68.5	68.1	64.8	58.0	46.1	34.3	49.3
Highest	35°	31°	34°	49°	60°	68°	71°	72°	68°	62°	58°	38°	72°
Date	1+	10+	31	24	25	26+	29+	9	2+	1+	1	1+	8-9
Lowest	27°	26°	30°	35°	43°	58°	67°	65°	62°	55°	38°	30°	26°
Date	31	3+	1+	1	1	1+	20+	30+	25+	25+	27+	29+	2-3+
At a depth in the soil of 40 inches													
Average 7 PM	36.1	32.7	32.9	38.7	48.0	57.4	63.5	64.9	62.9	58.2	50.5	39.8	48.8
Highest	39°	33°	34°	42°	53°	62°	65°	65°	64°	61°	56°	44°	65°
Date	1+	1+	25+	22+	30+	30	30+	1+	1+	1	1+	1+	7-30+
Lowest	33°	32°	32°	34°	42°	53°	62°	64°	61°	56°	44°	37°	32°
Date	31	11+	1+	1+	1+	1+	1+	28+	28+	28+	30	26+	2-11+
At a depth in the soil of 72 inches													
Average 7 PM	43.1	39.6	38.3	40.5	46.1	53.2	58.6	60.7	60.7	58.4	54.0	46.7	50.0
Highest	46°	41°	39°	42°	50°	56°	60°	61°	61°	60°	57°	50°	61°
Date	1	1+	1+	22+	30+	25+	25+	8+	1+	1+	1+	1+	8-8+
Lowest	41°	39°	38°	39°	43°	50°	57°	60°	60°	57°	50°	44°	38°
Date	26+	16+	8+	1+	1+	1+	1+	1+	21+	28+	30	26+	3-8+

COUNCIL BLUFFS

At a depth in the soil of 1 inch													
Average 12 Noon *	67.8	82.4	82.5	79.6	77.5	71.1	43.8	34.1	-	-	-	-	-
Highest	82°	93°	99°	92°	92°	84°	63°	44°	99°	-	-	-	-
Date	23	13	30	1	8	19	1	14	7-30	-	-	-	-
Lowest	48°	65°	68°	69°	62°	52°	28°	23°	-	-	-	-	-
Date	5	18	18	13	28	22+	23	20	-	-	-	-	-
At a depth in the soil of 2 1/4 inches													
Average 12 Noon *	68.0	81.3	81.9	80.2	75.3	66.7	40.7	29.7	-	-	-	-	-
Highest	81°	90°	96°	92°	91°	75°	61°	35°	96°	-	-	-	-
Date	14+	23+	30	1	3	18+	1	14+	7-30	-	-	-	-
Lowest	50°	66°	68°	69°	62°	52°	28°	13°	-	-	-	-	-
Date	5	18	18	13	28	23	24	7	-	-	-	-	-
At a depth in the soil of 4 inches													
Average 12 Noon *	66.2	77.6	77.9	76.6	72.4	62.9	39.7	30.1	-	-	-	-	-
Highest	79°	91°	90°	85°	87°	72°	59°	34°	91°	-	-	-	-
Date	24	25	2	1	3	18+	1	14	6-25	-	-	-	-
Lowest	51°	65°	69°	69°	62°	53°	29°	26°	-	-	-	-	-
Date	2	3	10+	13	28	23	24	6+	-	-	-	-	-
At a depth in the soil of 8 inches													
Average 12 Noon *	62.7	72.9	74.3	72.8	67.1	58.7	40.8	30.5	-	-	-	-	-
Highest	74°	82°	83°	79°	77°	67°	59°	34°	83°	-	-	-	-
Date	24	25	2	1	3	1+	1	1+	7-2	-	-	-	-
Lowest	48°	63°	68°	66°	62°	52°	33°	26°	-	-	-	-	-
Date	2	3	13	20	12+	24+	24+	27	-	-	-	-	-
At a depth in the soil of 20 inches													
Average 12 Noon *	56.5	68.0	71.4	71.7	67.9	59.9	47.0	35.4	-	-	-	-	-
Highest	63°	73°	75°	75°	71°	65°	59°	39°	75°	-	-	-	-
Date	24+	25+	31	1+	4+	1+	1	1	7-31+	-	-	-	-
Lowest	46°	62°	69°	69°	65°	56°	39°	34°	-	-	-	-	-
Date	1	1+	13+	21+	27+	26	29+	20+	-	-	-	-	-
At a depth in the soil of 40 inches													
Average 12 Noon *	52.5	61.9	66.8	67.9	66.3	61.3	52.7	42.2	-	-	-	-	-
Highest	57°	66°	68°	69°	67°	64°	59°	46°	69°	-	-	-	-
Date	26+	28+	30+	6	1+	1+	1+	1	8-6	-	-	-	-
Lowest	47°	57°	66°	67°	65°	59°	47°	40°	-	-	-	-	-
Date	1+	1+	1+	29+	16+	29+	28+	26+	-	-	-	-	-
At a depth in the soil of 72 inches													
Average 12 Noon *	63.0	60.9	56.8	50.0	63.0	60.9	56.8	50.0	-	-	-	-	-
Highest	83°	62°	59°	53°	83°	62°	59°	53°	-	-	-	-	-
Date	1+	1+	1+	1	1+	1+	1+	1	-	-	-	-	-
Lowest	63	60	54	48	63	60	54	48	-	-	-	-	-
Date	1+	16+	27+	26+	1+	16+	27+	26+	-	-	-	-	-

* Observations taken at 5 PM in May and at 12 Noon June through December.

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

IOWA
1950

Table 2

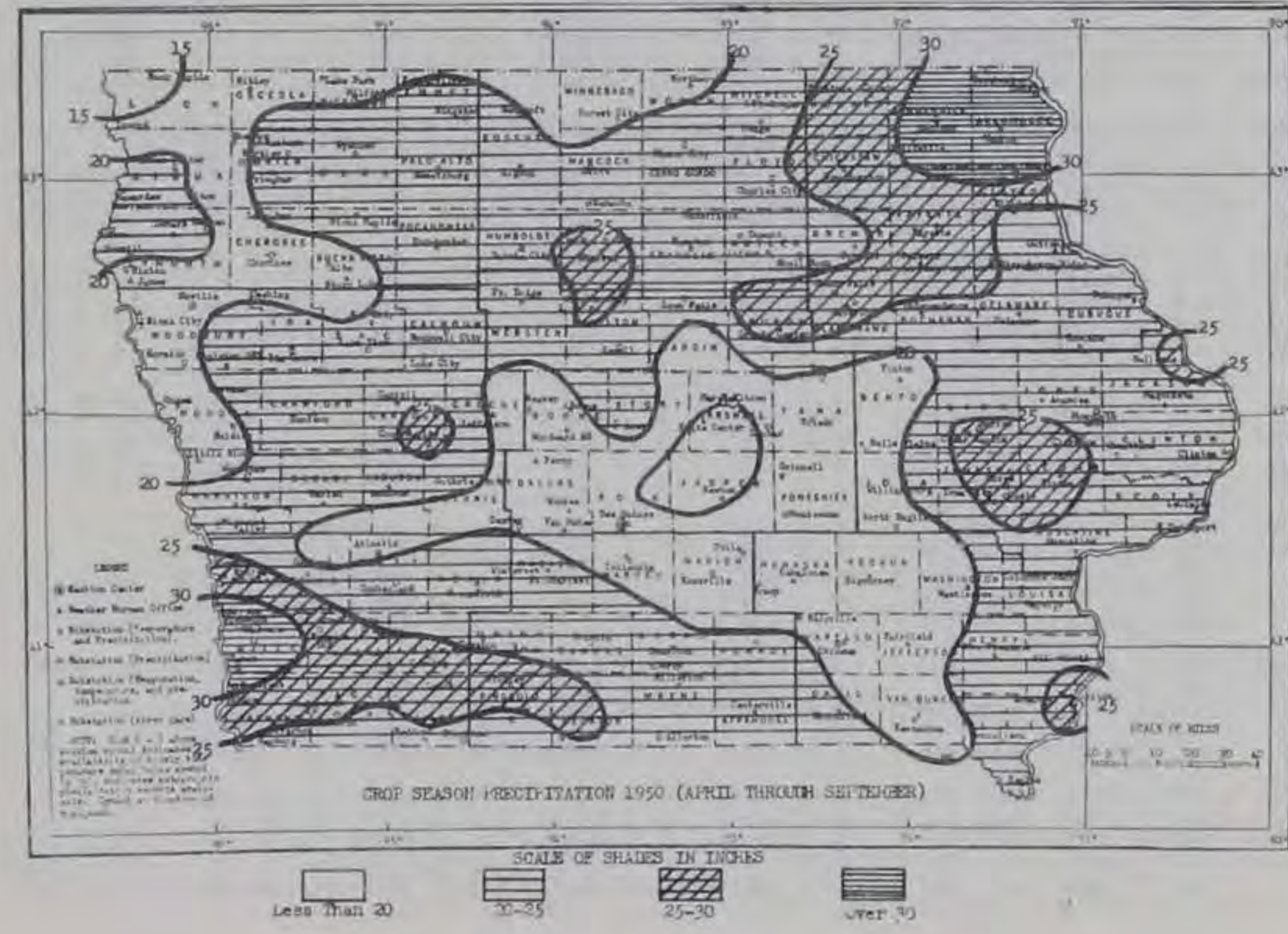
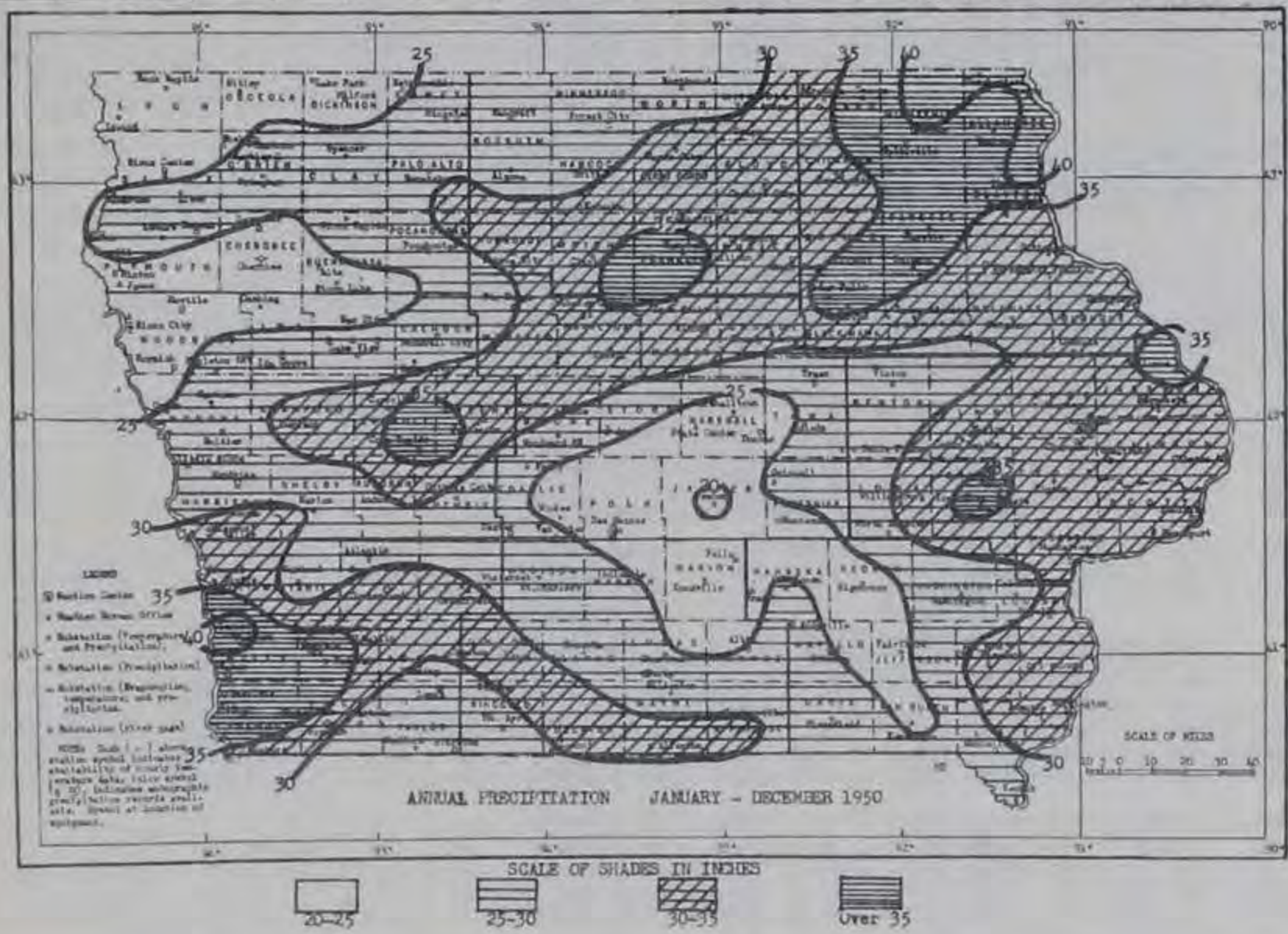
Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual			
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure		
Afton	0.45																											
Akron	0.53	-.07	0.83	.06	0.84	-.42	0.80	-1.60	3.61	.01	5.23	1.23	3.91	.76	3.46	.56	5.27	1.97	1.45	-.05	0.28	-.82	0.20	-.50	26.41	1.13		
Albia	2.06	.95	2.20	.94	0.55	-1.38	2.84	.04	4.39	.31	5.08	.43	1.54	-2.03	4.11	.39	1.95	-2.22	0.24	-2.05	0.75	-1.08	0.92	-.38	26.63	-6.08		
Algona	1.17	.35	1.17	.20	0.99	-.40	3.13	.70	6.55	2.43	5.09	.81	5.45	2.34	1.33	-2.74	2.20	-2.08	1.12	-.95	0.38	-1.24	0.98	.04	29.56	-.54		
Allerton	1.73		1.39		0.63		1.76		2.69		9.51																	
Allison	1.79	.69	2.36	1.24	2.02	-.22	2.68	-.35	7.85	3.50	8.15	3.70	3.90	.18	0.41	-3.29					0.36	-1.46	0.98	-.17				
Alta	0.84	.03	1.12	.10	1.15	-.31	1.46	-1.18	3.77	-.62	3.53	-1.20	6.72	2.97	1.35	-2.10	2.44	-1.46	1.44	-.48	0.34	-1.23	0.30	-.84	24.46	-6.13		
Alton	0.78	.10	0.95	.15			0.91	-1.33	3.40	-.35	4.23	.13	4.84	1.78	1.88	-1.37	0.54	-3.01	1.75	.20								
Ames 3 SW	1.07	.20	1.29	.31	0.53	-.90	1.40	-1.21	7.14	2.96	7.55	3.21	1.92	-1.50	1.79	-1.91	1.22	-3.06	1.39	-.99	0.30	-1.21	0.36	-.69	25.96	-4.79		
Anamosa 1 NW	2.41	1.21	1.63	.53	0.89	-.91	3.90	1.30	3.31	-.63	7.68	3.08	4.88	1.08	1.03	-2.77	2.67	-1.53	0.18	-2.49	1.29	-.51	1.20	-.15	31.07	-1.79		
Ankeny 2 SW									4.50		5.90		1.73		1.42		0.54		1.05		0.18							
Atlantic 1 K	1.08	.13	1.28	.21	0.79	-.68	1.78	-.79	3.87	.32	3.37	-1.43	2.95	-.43	3.75	-.34	0.51	-3.45	3.04	.62	0.48	-1.21	0.25	-.76	23.13	-7.81		
Atlantic AP CAA	0.70	-.25	1.47	.40	0.58	-.89	1.51	-1.04	3.41	-.14	4.31	-.49	2.63	-.75	3.28	-.81	0.51	-3.45	3.81	1.39	0.34	-1.35	0.35	-.66	22.90	-8.04		
Audubon 2 S	1.11	.16	1.49	.39	1.03	-.40	2.50	.12	6.18	2.87	4.88	.36	3.48	-.05	4.03	.06	0.70	-3.43	2.89	.74	0.45	-1.14						
Augusta			2.92		0.25		7.19		2.48		5.91		3.15		2.63		2.21		0.45		0.66							
Bancroft	1.49	.84	1.26	.38	1.63	.23	1.80	-.50	6.41	2.36	3.33	-1.12	5.62	2.22	0.77	-2.93	3.11	-.64	1.05	-.95	0.74	-.86	1.93	1.08	29.14	-.11		
Bartlett 3 E	0.55		1.53		0.59		1.70		10.41		3.64		7.82		5.85		1.85		4.76		1.01							
Beaver					0.90	-.71	1.54	-1.20	4.79	-.65	5.17	.07	4.58	.84	4.43	.33	5.60	1.48	0.87	-1.83	0.85	-1.02						
Bedford 1 N					0.65	-1.56	2.93	.04	3.40	-.80	7.56	2.91	1.11	-3.09	1.33	-2.33	1.57	-2.82	0.46	-2.01	1.10	-1.03	1.37	-.06	25.06	-9.89		
Belle Plaine	1.95	.60	1.63	.26	0.65	-1.56	2.93	.04	3.40	-.80	7.56	2.91	1.11	-3.09	1.33	-2.33	1.57	-2.82	0.46	-2.01	1.10	-1.03	1.37	-.06	25.06	-9.89		
Belleve L & D 12	2.87	1.57	1.65	.35	1.80	-.30	4.14	1.48	2.01	-1.79	9.68	5.28	4.02	.52	1.97	-1.73	5.05	.85	0.29	-2.31	0.78	-1.22	1.60	.30	35.86	3.01		
Blockton 2 S			1.38	.19	0.20	-1.52	1.86	-1.04	6.01	1.93	5.29	.22	4.62	.91	4.05	-.06	1.34	-3.00	0.92	-1.73	0.24	-1.66	0.12	-.98				
Bloomfield 2 N	2.29	.99	1.67	.27	0.33	-1.96	3.55	.45	1.91	-2.39	10.14	5.84			2.34	-1.11	0.70	-3.45	0.04	-2.47	0.42	-1.38	0.55	-.88				
Boone	2.06	1.09	2.62	1.61	1.14	-.36	1.52	-1.11	7.48	3.33	5.59	.98	1.95	-1.81	0.95	-2.99	0.62	-3.87	2.16	-.26								
Boyer 5 SE																												
Britt	2.03	1.30	1.98	1.23	1.45	.17	4.07	1.89	3.71	-.59	4.81	.50	4.75	1.37	1.32	-2.72	2.68	-1.44	0.68	-1.43	0.84	-.74	1.42	.64	29.74	-.18		
Burlington WB AP	2.76	1.01	2.32	.68	0.80	-1.74	6.24	3.06	3.10	-1.04	8.41	3.70	4.32	.86	2.44	-1.00	1.29	-2.97	0.36	-2.41	0.71	-1.44	0.34	-1.28	33.09	-2.57		
Carroll	0.93	.15	1.92	.92	0.61	-.78	2.16	-.16	6.43	2.61	9.39	4.67	2.95	-.49	2.58	-1.60	0.36	-3.87	1.34	-.83	0.47	-1.04	0.34	-.62	29.48	-.84		
Carson																												
Cascade	1.87		1.28		1.04		3.90		2.95		9.00		3.28		0.81		2.93		0.26		1.30							
Castana 4 E	0.91		1.04		0.55		0.81		5.53		6.54		3.43		4.80		1.42		2.68		0.64							
Cedar Falls	1.57	.42	2.22	1.12	1.66	-.14	4.21	1.81	5.79	1.87	7.37	2.95	3.68	-.22	0.77	-2.93	5.55	1.25	1.82	-.73	0.39	-1.51	1.39	.24	36.22	4.13		
Cedar Rapids No. 1	2.37	1.28	1.28	.22	0.81	-.90	4.65	2.13	3.63	-.09	8.89	4.78	6.16	2.48	0.74	-2.95	2.21	-1.91	0.23	-2.04	0.93	-.82	1.31	.19	33.21	2.37		
Cedar Rapids No. 2	2.18		1.71		0.83		4.84		3.56		8.00		3.96		0.87		1.73		0.24		0.76							
Centerville	2.63	1.52	2.46	1.16	0.71	-1.15	3.66	.46	3.67	-.63	7.82	2.99	4.81	1.21	2.79	-.94	0.45	-3.70	0.14	-2.52	0.63	-1.36	0.50	-.86	30.27	-3.82		
Charles City	1.88	.83	1.56	.52	0.36	-1.32			8.33	4.59	7.04	2.38	2.64	-.98	3.18	-.54	1.53	-2.68			0.62	-1.11	0.36	-.71				
Charlton 3 E	1.37	.28	2.10	.99	1.61	-.26	2.95	.43	6.28	1.85	5.20	.94	5.45	1.80	2.27	-1.89	2.54	-1.46	1.42	-.81	0.42	-1.45	1.54	.34	33.15	-.76		
Cherokee	0.66	.04	0.81	-.09	0.72	-.58	1.03	-1.29	4.15	.35	4.13	-.07	7.54	4.10	1.13	-2.17	2.19	-1.61	1.67	-.07	0.38	-.95	0.45	-.25	24.86	-2.59		
Clarence			1.26		1.13		4.48		3.28		7.28		5.18		2.31		3.37		0.45		0.85							
Clarinda	0.59	-.32	1.18	.11	0.68	-.93	1.60	-2.00	5.66	1.60	3.24	-1.80	4.60	.72	6.43	2.43	1.80	-2.16	2.69	-.03	0.79	-.93	0.05	-.98	29.31	-4.29		
Clarion	0.68	-.32	1.87	.20	0.64	-.86	2.72	.12	6.10	2.05	6.51	1.86	4.33	.73	1.03	-2.67	5.05	.90	2.43	.23	0.43	-1.37	0.70	-.25	32.49	.62		
Clinton No. 1	2.81	1.29	1.99	.57	1.24	-1.12	6.47	3.52	1.36	-2.67	6.90	2.55	6.32	2.78	1.45	-2.54	1.73	-2.51	0.51	-2.12	1.12	-1.04	1.26	-.29	33.16	-1.58		
Clinton No. 2	3.11		1.99		1.10		6.81		1.45		6.76		6.86		1.39		1.88		0.55		1.19							
Columbus Junction	2.18	.83	1.87	.49	0.63	-1.67	6.20	3.15	1.83	-2.13	6.71	1.87	2.14	-1.56	2.24	-1.77	1.53	-2.47	0.31	-2.29	1.38	-.67	0.65	-.78	27.67	-7.02		
Coon Rapids	1.22		1.63		0.67		3.06		9.07		10.05		2.89		2.71		0.81		2.48		0.43							
Corning 1 W			0.51	-.55	0.34	-1.30			6.27	2.10	2.99	-1.55							2.34	-.36	0.65	-.96	0.07	-.94				
Corydon									2.96		2.96		2.96		2.62		0.89		0.24		0.69							
Council Bluffs 6 N	1.10		1.73		0.89		2.00		5.84		2.19		6.69		7.42		0.54		2.73		0.41							
Council Bluffs 5 NE	1.11		1.54		0.84		2.09		5.91		1.94		6.62		9.04		0.65		3.09		0.41							
Cresco	1.16	.04	2.05	1.00	1.88	.03	3.91	1.48	4.83	.43	4.52	-.18	11.22	7.41	1.77	-1.59</												

Table 2-Continued

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

IOWA
1950

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	Precip	Departure	
Tipton	2.48	1.18	1.45	.20	1.14	-.96	6.67	3.73	3.56	-.14	5.94	1.62	7.28	3.43	1.31	-2.74	1.13	-2.97	0.38	-2.22	0.79	-1.06	-	-	-	-	-
Tiptonka 6 NE	1.06	-	1.03	-	1.06	-	2.09	-	5.06	-	3.07	-	5.85	-	1.19	-	1.69	-	1.00	-	0.47	-	1.55	-	24.92	-	
Toledo	1.71	.60	1.47	.37	0.68	-1.19	2.99	.29	5.11	.85	6.31	1.55	1.31	-2.65	2.62	-.92	1.03	-3.62	0.47	-1.98	0.48	-1.48	1.34	.14	25.52	-8.04	
Tracy	2.42	1.32	1.24	-.01	0.48	-1.42	1.86	-.89	4.51	.76	4.06	-.54	1.42	-1.98	2.44	-1.61	0.79	-3.56	0.45	-1.85	0.63	-1.22	0.36	-.94	20.66	-12.04	
Traer	1.75	-	2.28	-	0.96	-	4.09	-	3.78	-	5.09	-	1.77	-	1.40	-	2.85	-	0.61	-	0.51	-	1.14	-	26.24	-	
Tripoli	1.97	-	2.06	-	2.27	-	3.53	-	4.84	-	6.51	-	5.51	-	1.08	-	2.13	-	-	-	-	-	2.17	-	-	-	
Van Meter	-	-	1.89	.79	0.55	-.95	1.96	-.24	4.57	.67	5.89	1.49	3.20	-.30	3.88	-.07	0.40	-3.77	1.22	-1.08	0.26	-1.65	0.06	-.99	-	-	
Vinton	1.93	.85	0.85	-.30	-	-	1.87	-.53	3.86	-.24	-	-	-	-	1.10	-2.55	3.17	-1.18	0.25	-2.15	0.90	-.90	1.65	.35	-	-	
Wallin 2 WNW	0.59	-	1.22	-	0.55	-	1.65	-	4.60	-	2.37	-	4.86	-	4.39	-	1.20	-	4.85	-	0.80	-	0.08	-	27.16	-	
Wapello	3.33	1.93	2.30	.95	0.64	-1.66	5.99	2.84	1.87	-2.08	6.72	1.92	5.63	1.93	1.96	-1.94	1.35	-2.55	0.34	-2.31	0.85	-1.25	0.63	-.77	31.61	-2.99	
Washington	2.44	1.12	2.66	1.24	1.08	-1.24	4.43	1.37	3.10	-.61	6.00	1.44	2.59	-1.09	1.22	-2.72	1.24	-2.84	0.17	-2.34	0.99	-.95	0.87	-.53	26.79	-7.15	
Waterloo	1.53	.48	1.81	.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Waterloo AP 5 NW	-	-	-	-	-	-	3.26	.92	4.31	.47	-	-	2.35	-1.64	0.67	-3.03	4.16	-.19	0.81	-1.53	0.22	-1.59	-	-	-	-	
Waukeo	1.34	.22	2.06	.99	0.87	-.78	2.65	-.28	4.78	.91	6.01	1.56	2.97	-.95	2.47	-1.46	0.60	-3.62	1.13	-1.12	-	-	0.30	-.76	-	-	
Waukon	0.41	-.74	0.15	-1.17	3.14	1.29	4.06	1.60	4.89	.49	6.57	2.17	9.85	5.66	2.01	-1.94	2.86	-1.14	0.83	-1.77	0.32	-1.77	1.40	.10	36.49	2.78	
Webster City	1.50	.56	2.04	1.09	0.73	-.86	2.57	.01	6.28	2.23	7.78	3.28	2.74	-.74	2.33	-1.37	5.66	1.56	2.27	.08	0.47	-1.23	0.36	-.54	34.73	4.07	
Webster City 2 S	-	-	-	-	-	-	2.38	-	6.46	-	-	-	2.39	-	2.17	-	7.30	-	-	-	-	-	-	-	-	-	
Wheatland	2.36	-	1.23	-	0.87	-	5.56	-	2.54	-	6.33	-	2.70	-	1.56	-	1.66	-	0.38	-	2.07	-	1.10	-	28.36	-	
Williamsburg	2.27	1.07	0.97	-.23	0.29	-1.86	2.73	-.07	3.10	-.80	7.01	2.23	2.12	-1.58	0.60	-3.05	0.72	-3.50	0.26	-2.19	0.55	-1.45	-	-	-	-	
Winterset	1.15	.22	2.13	1.03	0.77	-.94	1.69	-1.07	5.24	1.32	5.53	1.22	3.79	.35	4.63	.99	0.54	-3.53	1.00	-1.49	0.54	-1.15	0.17	-.86	27.18	-3.91	
Woodbine 5 SE	0.89	-	1.21	-	0.63	-	1.05	-	6.43	-	3.16	-	5.67	-	3.52	-	0.70	-	2.49	-	0.50	-	0.39	-	26.64	-	
Woodward 7 N	-	-	2.24	1.19	0.51	-1.04	1.33	-1.22	8.06	4.01	4.94	.44	0.95	-2.95	1.40	-2.60	0.49	-3.61	1.15	-1.15	0.22	-1.38	0.27	-.73	-	-	
Section Average	1.51	.50	1.56	.47	1.03	-.66	2.76	.15	4.89	.93	5.70	1.16	4.65	1.05	2.39	-1.37	2.03	-1.98	1.26	-1.03	.59	-1.13	0.74	-.35	29.12	-2.25	



See reference notes following Station Index.

TEMPERATURE EXTREMES AND FREEZE DATA

IOWA
1950

Table 3

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
Albia	92	6-25	-10	12-27	4-14 (20°)	4-21 (26°)	5- 1 (31°)	10- 3 (32°)	11- 4 (20°)	11- 4 (20°)	204	197	155
Algona	91	6-14+	-20	1-27	4-14 (19°)	5- 1 (28°)	5- 5 (32°)	10- 3 (31°)	10- 4 (28°)	11- 4 (20°)	204	156	151
Allison	92	6-25+	-20	12-27	4-21 (24°)	5- 1 (28°)	5- 1 (28°)	10- 3 (32°)	10- 4 (28°)	11- 4 (18°)	196	156	155
Alta	91	6-25	-21	1-26	4-26 (24°)	5- 1 (26°)	5- 7 (32°)	10- 3 (29°)	10- 4 (27°)	11- 4 (20°)	192	156	149
Alton	93	5-24	-21	1-26	5- 1 (24°)	5- 1 (24°)	5- 1 (24°)	10- 3 (29°)	10- 4 (26°)	11- 4 (19°)	187	156	155
Ames 3 SW	93	6-25	-16	1-31	4-15 (23°)	5- 1 (27°)	5- 1 (27°)	9-24 (32°)	10-25 (26°)	11- 4 (16°)	203	177	146
Anamosa 1 NW	89	6-25	-27	12-27	4-21 (21°)	5- 1 (26°)	5- 1 (26°)	9-24 (30°)	10- 4 (29°)	10-25 (25°)	187	156	146
Ankeny	-	-	-	-	-	-	-	10- 5 (31°)	10-25 (28°)	11- 4 (19°)	-	-	-
Atlantic 1 E	95	6-25	-18	1-31	4-27 (23°)	5- 1 (28°)	5- 1 (28°)	9-24 (32°)	10- 4 (28°)	11- 4 (19°)	191	156	146
Atlantic AP CAA	96	6-25	-23	1-31	4-27 (23°)	5- 1 (28°)	5- 1 (28°)	9-24 (30°)	10- 3 (28°)	11- 2 (24°)	189	155	146
Audubon 2 S	93	6-25	-20	1-26	4-27 (24°)	4-27 (24°)	5- 1 (29°)	10- 3 (30°)	10- 4 (28°)	11- 5 (19°)	192	160	155
Bancroft	93	8- 9+	-20	1-26	4-21 (23°)	5- 1 (27°)	5- 1 (27°)	10- 3 (31°)	10- 4 (28°)	11- 4 (17°)	197	156	155
Bedford 1 N	93	6-25	- 9	1-26+	4-14 (24°)	4-27 (26°)	5- 1 (31°)	10- 4 (30°)	11- 4 (28°)	11- 9 (20°)	209	191	156
Belle Plaine	93	8- 9+	-20	12-27	4-21 (24°)	5- 1 (27°)	5- 1 (27°)	10- 3 (32°)	10-25 (24°)	10-25 (24°)	187	177	155
Bellevue Lock & Dam 12	90	6-25+	-26	12-27	4-21 (23°)	4-28 (25°)	5- 1 (30°)	9-24 (30°)	10- 5 (27°)	11- 5 (20°)	197	160	146
Bloomfield 2 N	-	-	-	-	4-15 (20°)	4-21 (26°)	5- 1 (30°)	10- 4 (29°)	11- 4 (20°)	11- 4 (20°)	203	197	156
Boone	97	6-25	-13	1-26	4-15 (20°)	4-25 (25°)	5- 1 (31°)	10- 4 (30°)	-	-	-	-	156
Britt	94	8-15+	-22	1-26+	4-21 (21°)	5- 1 (25°)	5- 9 (32°)	8-20 (30°)	10- 3 (25°)	10- 4 (22°)	166	155	103
Burlington WB Airport	93	6-25	-11	2-26	4-14 (23°)	4-15 (27°)	4-27 (31°)	10- 4 (32°)	11- 4 (25°)	11-10 (16°)	210	203	160
Carroll	97	6-23	-18	1-26	4-14 (15°)	4-27 (26°)	5- 1 (29°)	9-24 (30°)	10- 4 (28°)	11- 4 (18°)	204	160	146
Cascade	90	7-28+	-29	12-27	4-21 (20°)	4-28 (26°)	5- 1 (30°)	9-24 (30°)	10- 5 (27°)	10-25 (22°)	187	160	146
Castana 4 E	98	6-13+	-19	1-26+	4-27 (24°)	4-27 (24°)	5- 1 (30°)	10- 3 (29°)	10- 4 (27°)	11- 4 (23°)	191	160	155
Cedar Rapids No. 1	92	8- 9+	-19	12-27	4-15 (23°)	5- 1 (27°)	5- 1 (27°)	10- 4 (31°)	10-25 (26°)	11- 4 (20°)	203	177	156
Centerville	93	6-25	-10	12-27	4-15 (23°)	4-27 (28°)	5- 1 (29°)	10- 4 (29°)	10-25 (28°)	11- 4 (20°)	203	181	156
Chariton 3 E	93	6-25	-13	12-27	4-15 (19°)	5- 1 (26°)	5- 1 (26°)	-	10-25 (25°)	11- 4 (18°)	203	208	-
Charles City	90	6-25+	-25	12-27	4-14 (22°)	5- 1 (30°)	5- 1 (30°)	10- 4 (30°)	10-25 (27°)	11- 4 (18°)	204	177	156
Cherokee	91	6-13+	-24	1-26	4-26 (16°)	5- 1 (25°)	5- 7 (31°)	10- 3 (27°)	10- 3 (27°)	10-25 (24°)	182	155	149
Clarinda	98	6-25	-16	1-31	4-21 (23°)	4-27 (26°)	5- 5 (32°)	10- 3 (30°)	10-25 (28°)	11- 4 (18°)	197	181	151
Clarion	92	6-25	-24	2-26	4-28 (23°)	5- 1 (28°)	5- 1 (28°)	8-20 (32°)	10- 4 (27°)	10-25 (22°)	180	156	111
Clinton No. 1	93	6-25	-19	12-27	4-13 (20°)	4-21 (28°)	5- 1 (31°)	10- 4 (32°)	11- 5 (25°)	11-10 (21°)	211	198	156
Columbus Junction	91	6-25	-15	12-27	4-21 (24°)	4-21 (24°)	5- 1 (32°)	10- 4 (32°)	10-25 (25°)	11- 4 (23°)	197	187	156
Corning 1 W	96	6-25	-11	1-26+	4-14 (19°)	4-29 (28°)	5- 1 (31°)	10- 3 (32°)	11- 4 (20°)	11- 4 (20°)	204	189	155
Council Bluffs 5 NE	96	6-25	-22	1-31	4-14 (16°)	5- 1 (28°)	5- 2 (32°)	10- 3 (30°)	10- 4 (27°)	-	-	156	154
Cresco	91	8- 9	-28	12-27	4-14 (18°)	5- 1 (27°)	5- 7 (32°)	9-24 (31°)	10- 3 (28°)	10-25 (24°)	194	155	140
Creston	94	6-25	-	-	4-14 (23°)	4-27 (26°)	5- 1 (32°)	-	-	-	-	-	-
Cushing 3 NE	-	-	-	-	4-14 (18°)	5- 1 (28°)	5- 1 (28°)	-	-	-	-	-	-
Dakota City	93	6-25	-17	1-26+	4-14 (18°)	5- 1 (28°)	5- 1 (28°)	10- 3 (31°)	10-25 (25°)	11- 4 (18°)	204	177	155
Davenport WB City	92	6-25	- 7	2-26+	4-13 (21°)	4-14 (26°)	4-28 (32°)	11- 4 (29°)	11-10 (19°)	11-10 (19°)	211	210	190
Decorah	91	6-25+	-36	12-27	4-21 (21°)	4-21 (21°)	5- 1 (29°)	9-24 (29°)	10- 5 (28°)	10-25 (24°)	187	167	146
Decorah 2 S	88	6-25	-	-	4-21 (20°)	5- 1 (27°)	5- 7 (31°)	8-20 (31°)	9-24 (24°)	9-24 (24°)	156	146	105
Delaware 2 W	90	7-30	-25	12-27	4-21 (22°)	5- 1 (26°)	5- 1 (26°)	10- 3 (32°)	10-25 (25°)	11- 4 (24°)	197	177	155
Denison 1 S	93	6-23+	-20	1-26+	4-26 (24°)	4-27 (25°)	5- 1 (29°)	9-24 (32°)	10-25 (26°)	11- 4 (19°)	192	181	146
Des Moines WB Airport	93	6-25	-11	1-31	4-14 (21°)	4-14 (21°)	5- 1 (32°)	10- 4 (31°)	11- 4 (20°)	11- 4 (20°)	204	204	156
Des Moines WB City	94	6-25	- 9	1-31	4-13 (20°)	4-14 (25°)	5- 1 (32°)	10- 4 (32°)	11- 4 (22°)	11- 4 (22°)	205	204	156
Dubuque L & D 11	89	6-25	-30	12-27	4-13 (19°)	4-14 (25°)	5- 1 (30°)	10- 4 (31°)	11- 4 (28°)	11-10 (20°)	211	204	156
Dubuque WB City	91	8-16	-21	12-27	4-13 (21°)	4-14 (26°)	4-21 (30°)	11- 4 (30°)	11- 9 (28°)	11-10 (15°)	211	209	187
Elkader	94	6-25	-31	12-27	4-21 (18°)	5- 2 (28°)	5- 2 (28°)	9-24 (30°)	10- 4 (28°)	10-25 (23°)	187	155	145
Emetsburg	-	-	-23	1-27	4-28 (24°)	5- 1 (27°)	5- 1 (27°)	10- 3 (31°)	10-25 (24°)	10-25 (24°)	180	177	155
Estherville	95	8-15	-	-	4-15 (23°)	5- 1 (26°)	5- 7 (32°)	9-24 (32°)	10- 4 (26°)	10-25 (24°)	193	156	140
Fairfield	-	-	-11	12-18+	4-14 (24°)	4-20 (25°)	4-29 (31°)	10- 5 (30°)	11- 4 (22°)	11- 4 (22°)	204	198	159
Fayette	92	7-19	-34	12-27	4-21 (20°)	5- 1 (26°)	5- 2 (31°)	9-24 (28°)	9-24 (28°)	10-25 (20°)	187	146	145
Forest City	92	8- 9	-25	12-27	4-21 (24°)	5- 1 (28°)	5- 7 (31°)	9-23 (32°)	10- 4 (26°)	10-25 (22°)	187	156	139
Fort Dodge	94	6-25	-16	1-26+	4-15 (24°)	5- 1 (27°)	5- 1 (27°)	10- 4 (29°)	10-25 (25°)	11- 4 (18°)	203	177	156
Glenwood 2 E	97	6-25	-17	1-31	4-27 (23°)	4-27 (23°)	5- 1 (31°)	10- 3 (30°)	10- 4 (27°)	11- 4 (19°)	191	160	155
Greenfield	93	6-25	-12	1-26	4-27 (24°)	4-27 (24°)	5- 1 (29°)	10- 3 (32°)	10- 4 (28°)	11- 4 (19°)	191	160	155
Grinnell	91	6-25	-17	12-27	4-14 (20°)	5- 1 (26°)	5- 1 (26°)	10- 5 (30°)	10- 4 (25°)	11- 4 (16°)	204	156	157
Grundy Center 4 NE	93	8- 9	-22	12-27	4-21 (22°)	5- 1 (26°)	5- 1 (26°)	10- 3 (32°)	10-25 (24°)	10-25 (24°)	187	177	155
Guthrie Center	-	-	-14	1-26	4-14 (19°)	4-28 (28°)	5- 1 (29°)	10- 3 (32°)	11- 4 (21°)	11- 4 (21°)	204	190	155
Guttenberg L & D 10	90	6-25+	-27	12-27	4-15 (24°)	5- 1 (28°)	5- 1 (28°)	10- 4 (29°)	11- 9 (28°)	11-10 (18°)	209	192	156
Hampton	91	6-25	-18	1-27+	4-21 (21°)	4-28 (26°)	5- 1 (29°)	10- 3 (31°)	10-25 (26°)	11- 4 (18°)	197	180	155
Harlan	93	6-25	-20	1-31	4-14 (16°)	4-27 (26°)	5- 1 (29°)	10- 4 (29°)	10-25 (28°)	11- 4 (20°)	204	181	156
Hawarden	94	5-23+	-22	1-26	4-15 (18°)	5- 1 (25°)	5- 1 (23°)	10- 3 (28°)	10- 3 (28°)	11- 4 (21°)	203	155	155
Ida Grove 4 SSE	92	6-13+	-21	1-26	4-27 (24°)	5- 1 (28°)	5- 7 (32°)	10- 3 (29°)	-	11- 9 (22°)	196	-	149
Independence 2 W	-	-	-25	12-27	4-28 (24°)	5- 1 (28°)	5- 1 (28°)	10- 3 (31°)	10- 4 (28°)	11- 4 (19°)	190	156	155
Indianola	95	6-25	-10	2- 1+	4-14 (20°)	4-27 (27°)	5- 1 (31°)	10- 3 (32°)	11- 4 (17°)	11- 4 (17°)	204	191	155
Inwood 2 W	94	5-23	-26	1-26	5- 1 (23°)	5- 7 (28°)	5- 7 (28°)	10- 3 (27°)	10- 3 (27°)	11- 4 (21°)	187	149	149
Iowa City	-	-	-	-	-	4-28 (28°)	5- 1 (29°)	10- 4 (31°)	10-25 (26°)	-	-	180	156
Iowa City AP CAA	93	6-25	-16	12-27	4-21 (23°)	5- 1 (28°)	5- 1 (28°)	10- 3 (32°)	10- 5 (25°)	10-25 (23°)	187	157	155
Iowa Falls 1 N	94	8- 9	-21	1-27	4-21 (24°)	5- 1 (27°)	5- 1 (27°)	9-24 (32°)	10- 4 (26°)	10-25 (24°)	187	156	146
Jefferson	93	6-25	-15	1-26+	4-15 (24°)	5- 1 (28°)	5- 1 (28°)	10- 4 (30°)	10-25 (27°)	11- 4 (20°)	203	177	156
Keokuk L & D 19	92	6-17+	- 3	12-18+	4-13 (21°)	4-14 (25°)	4-15 (32°)	11- 4 (27°)	11- 4 (27°)	11-11 (20°)	212	204	203
Keokuk WB City	92	6-25+	- 7	12-18	4-13 (13°)	4-14 (26°)	4-27 (32°)	11- 4 (27°)	11- 4 (27°)	11-10 (20°)	211	204	191
Keosauqua State Park	-	-	- 8	12-18+	4-14 (24°)	4-21 (26°)	5- 1 (32°)	10- 4 (32°)	10-25 (27°)	11- 4 (24°)	204	187	156
Knoxville 2 W	94	6-25	- 8	12-18+	4-14 (21°)	4-27 (28°)	5- 1 (32°)						

TEMPERATURE EXTREMES AND FREEZE DATA

IOWA
1950

Table 3-Continued.

Station	Highest	Date	Lowest	Date	Last spring minimum of			First fall minimum of			No. of days between dates		
					24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
Norwich 2 E SCS Exp. Fm	97	6-25	-10	1-26+	4-14 (20°)	4-27 (26°)	5- 1 (32°)	10- 4 (30°)	11- 4 (21°)	11- 4 (21°)	204	191	156
Oakland 2 E	96	6-25	-21	1-31	4-27 (24°)	5- 1 (28°)	5- 1 (28°)	10- 3 (29°)	10- 4 (28°)	11- 4 (18°)	191	156	155
Oelwein	-	-	-28	12-27	4-15 (24°)	5- 1 (28°)	5- 1 (28°)	9-24 (30°)	10- 4 (28°)	10-25 (21°)	193	156	146
Onawa	95	6-25	-24	1-26	4-27 (22°)	4-27 (22°)	5- 1 (29°)	10- 3 (27°)	10- 3 (27°)	11- 4 (23°)	191	159	155
Osage	90	8- 9	-30	12-27	4-14 (21°)	5- 1 (28°)	5- 1 (28°)	9-24 (32°)	10-25 (24°)	10-25 (24°)	194	177	146
Osceola	95	6-25	- 8	1-26	4-14 (22°)	4-27 (25°)	5- 1 (31°)	10- 3 (32°)	11- 4 (20°)	11- 4 (20°)	204	191	155
Oskaloosa	92	6-25	-13	12-27	4-21 (23°)	4-27 (28°)	5- 1 (31°)	9-24 (32°)	10-25 (23°)	10-25 (23°)	187	181	146
Ottumwa AP CAA	93	6-25	- 9	12-27	4-14 (22°)	4-14 (22°)	5- 1 (32°)	10- 4 (31°)	11- 4 (23°)	11- 4 (23°)	204	204	156
Perry 2 SE	96	6-25	-20	1-31	4-15 (21°)	5- 1 (27°)	5- 1 (27°)	9-24 (27°)	9-24 (27°)	10-25 (23°)	193	146	146
Pocahontas	94	6-25	-22	1-27	4-14 (18°)	5- 1 (27°)	5- 7 (32°)	10- 3 (30°)	10-25 (23°)	10-25 (23°)	194	177	149
Pringhar	93	6-13	-23	1-26	4-20 (24°)	5- 1 (25°)	5- 7 (31°)	10- 3 (28°)	10- 3 (28°)	11- 4 (21°)	198	155	149
Red Oak	95	6-25	-21	1-31	4-20 (23°)	4-27 (25°)	5- 1 (31°)	10- 3 (31°)	10- 4 (28°)	11- 4 (18°)	196	160	155
Rock Rapids	92	5-23	-24	1-26	4-14 (18°)	5- 1 (27°)	5- 7 (31°)	10- 3 (29°)	10- 4 (26°)	10-25 (23°)	194	156	149
Rockwell City	94	6-25	-18	1-26	4-15 (23°)	4-28 (27°)	5- 1 (29°)	10- 3 (30°)	10- 4 (28°)	11- 4 (17°)	203	159	155
Sac City	95	6-25	-19	1-26	4-14 (20°)	4-26 (26°)	5- 1 (31°)	10- 3 (32°)	10-25 (28°)	11- 4 (22°)	204	182	155
Sanborn	92	6-13	-23	1-26	4-28 (23°)	5- 1 (27°)	5- 7 (31°)	10- 3 (28°)	10- 3 (28°)	11- 4 (21°)	190	155	149
Saratoga 2 E	87	6-25	-34	12-27	4-21 (19°)	5- 7 (28°)	5-11 (31°)	8-20 (32°)	10- 4 (28°)	10-25 (19°)	187	150	101
Sheldon	91	6-13	-25	1-26	5- 1 (24°)	5- 1 (24°)	5- 7 (31°)	10- 3 (27°)	10- 3 (27°)	10-25 (24°)	177	155	149
Shenandoah	100	6-25	-15	1-31	4-14 (19°)	4-27 (26°)	5- 1 (32°)	10- 3 (32°)	11- 4 (22°)	11- 4 (22°)	204	191	155
Sibley	90	6-13+	-28	1-27	4-28 (20°)	5- 1 (25°)	5- 7 (30°)	8-20 (30°)	10- 3 (26°)	10- 4 (21°)	159	155	105
Sidney	98	6-25	-12	1-26	4-14 (21°)	4-27 (27°)	4-30 (32°)	10- 3 (31°)	11- 9 (24°)	11- 9 (24°)	209	196	156
Sigourney	91	6-25	-14	12-27	4-14 (22°)	4-22 (26°)	5- 1 (30°)	10- 4 (28°)	10- 4 (28°)	11- 4 (21°)	204	165	156
Sioux City WB Airport	94	5-23+	-23	1-26	4-27 (24°)	4-27 (24°)	5- 1 (28°)	10- 3 (29°)	10- 4 (28°)	11- 4 (22°)	191	160	155
Sioux Rapids	94	6-13	-27	1-27	5- 1 (24°)	5- 1 (24°)	5- 7 (32°)	9-24 (32°)	10- 3 (28°)	10-25 (23°)	177	155	140
Spencer 1 N	-	-	-29	1-26	-	-	-	9-24 (31°)	10- 4 (26°)	10-25 (21°)	-	-	-
State Center	92	6-25	-	-	-	-	5- 1 (31°)	10- 4 (31°)	11- 4 (21°)	11- 4 (21°)	-	-	156
Storm Lake 2 E	91	6-25	-20	1-27	4-28 (23°)	4-28 (23°)	5- 7 (31°)	10- 3 (29°)	10-25 (28°)	11- 4 (17°)	190	180	149
Tingley	92	6-25	-14	1-31	4-14 (20°)	4-27 (26°)	5- 1 (31°)	10- 3 (31°)	10- 4 (28°)	11- 4 (16°)	204	160	155
Tipton	93	8-16	-	-	4-21 (24°)	5- 1 (28°)	5- 1 (28°)	10- 4 (31°)	10-25 (28°)	11- 4 (23°)	197	177	156
Toledo	91	8-16	-18	12-27	4-15 (23°)	5- 1 (27°)	5- 1 (27°)	10- 3 (32°)	10-25 (25°)	11- 4 (19°)	203	177	155
Tripoli	91	8- 9+	-27	12-27	4-21 (23°)	5- 1 (28°)	5- 1 (28°)	9-24 (32°)	10- 4 (28°)	10-25 (24°)	187	156	146
Vinton	-	-	-24	12-27	4-21 (22°)	4-28 (26°)	4-28 (26°)	9-24 (31°)	10-25 (22°)	10-25 (22°)	187	180	149
Washington	92	8-16	-13	2-26+	4-14 (23°)	4-21 (26°)	5- 1 (30°)	10- 4 (29°)	10-25 (26°)	11- 4 (20°)	204	187	156
Waterloo AP 5 NE	-	-	-26	12-27	4-21 (24°)	4-28 (25°)	5- 1 (32°)	10- 4 (30°)	10-25 (22°)	10-25 (22°)	187	180	156
Waukee	95	6-25	-11	1-26+	4-13 (20°)	4-15 (28°)	5- 1 (32°)	10- 3 (32°)	-	-	-	-	155
Waukon	88	8- 9	-24	12-27	4-14 (21°)	5- 1 (28°)	5- 2 (31°)	9-24 (32°)	10- 4 (28°)	11- 4 (18°)	204	156	145
Webster City	95	6-25+	-20	1-27+	4-15 (21°)	5- 1 (25°)	5- 1 (25°)	9-24 (32°)	10- 4 (27°)	10-25 (22°)	193	156	146
Williamsburg	91	8-16	-	-	4-15 (23°)	4-21 (25°)	5- 1 (30°)	10- 4 (30°)	10-25 (22°)	10-25 (22°)	193	187	156
Winterset	94	6-25	-11	11-31	4-14 (18°)	4-27 (25°)	5- 1 (30°)	9-24 (30°)	11- 4 (17°)	11- 4 (17°)	204	191	146
Woodward 7 N	94	6-25	-	-	4-12 (23°)	4-26 (28°)	5- 1 (30°)	10- 4 (29°)	11- 4 (26°)	11-10 (13°)	212	192	156

TOTAL EVAPORATION AND WIND MOVEMENT

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Ames 3 SW	EVAP	-	-	-	3.86	5.48	7.85	7.27	6.71	5.29	4.16	-
	DEP	-	-	-	-1.04	-1.09	.05	-1.98	-.84	-.30	-.54	-	-	-
	WIND	-	-	-	3194	2715	2334	1204	1458	1218	1776	-	-	-
Cherokee	EVAP	-	-	-	3.77	5.30	8.01	6.75B	5.15	4.22	3.76B	-	-	-
	DEP	-	-	-	-.72	-.87	1.14	-1.44	-1.74	-.98	.31	-	-	-
	WIND	-	-	-	3750	2526	1882	973	996	954	1989	-	-	-
Iowa City	EVAP	-	-	-	4.17B	5.91	7.39	6.54B	5.62	4.09	4.28	-	-	-
	DEP	-	-	-	-.75	.20	.85	-1.26	-.69	-.93	.96	-	-	-
	WIND	-	-	-	3245	2243	1847	1111	1224	1176	1699	-	-	-
Norwich 2 E SCS Farm	EVAP	-	-	-	-	8.32	8.53B	-	5.71B	4.80	4.63B	-	-	-
	DEP	-	-	-	-	1.64	.52	-	-2.12	-1.59	.18	-	-	-
	WIND	-	-	-	-	2746	2248	-	1214	1360	2078	-	-	-

See reference notes following Station Index.

STATION INDEX

IOWA
1950

Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables	Station	Index No.	County	Drainage†	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables		
							Temp.	Precip.	Evap.	Month opened	Month closed									Temp.	Precip.	Evap.	Month opened	Month closed			
Afton	0064	Union	9	41 02	94 12	1200	55	89				Mar.	1 2 3	Lake Park	4561	Dickinson	11	43 27	95 19	1479	36	39				1 2 3	
Akron	0088	Plymouth	1	42 49	98 33	1153		24						Lake View	4569	Sac	20	42 18	95 03	1238		11					
Aibis	0113	Monroe	5	41 02	92 48	949	52	60						Lamoni	4585	Decatur	8	40 37	93 57	1140	43			Apr.	1 2 3		
Algona	0133	Kossuth	6	43 04	94 14	1200	77	90						Lamoni CAA AP 4 NW	4587	Decatur	9	40 39	94 00	1173	1	1				1 2 3	
Allerton	0149	Wayne	9	40 42	93 23	-		9				June	2	Lanning	4620	Allamakee	14	43 22	91 13	832		2				2	
Allison	0157	Butler	4	42 46	92 47	1080	36	37						Larrabee	4644	Cherokee	11	43 52	95 33	-		10					2
Alta	0173	Buena Vista	20	42 40	95 18	1513	80	61						Le Claire	4700	Scott	14	41 38	90 21	576		55					2
Alton	0181	Sioux	7	42 59	96 01	1305	45	46						Le Claire Lock & Dam 14	4705	Scott	14	41 35	90 24	578	13	13				1 2 3	
Ames 3 SW	0205	Story	21	42 00	93 39	1004	70	75	17					Le Mars	4735	Plymouth	7	42 48	96 10	1230	56	64				1 2 3	
Anamosa 1 NW	0213	Jones	27	42 07	91 18	873	14	22						Lenox	4746	Taylor	28	40 53	94 34	-		5				2	
Ankney 2 SW	0241	Polk	6	41 43	93 38	-						Apr.	1 2 3	Little Rock	4863	Lyon	1	43 27	95 53	-				Sept	2		
Atlantic 1 E	0364	Cass	16	41 24	94 59	1110	60	64						Little Sioux	4867	Harrison	11	41 49	96 01	-	45	49				2	
Atlantic AP CAA	0389	Cass	16	41 24	95 02	1152	8	8				Dec.	1 2 3	Logan	4894	Harrison	3	41 38	95 49	1120	84	85				1 2 3	
Audubon 2 S	0385	Audubon	16	41 42	94 57	1297	55	58						Lorimer	4926	Union	9	41 07	94 03	-				Apr.	2		
Augusta	0389	Des Moines	21	40 46	91 17	522		13						Malyers 5 W	5080	Wills	26	41 01	95 40	1000		4				2	
Bancroft	0463	Kossuth	6	43 18	94 13	1200	8	8						Mapleton 5 NW	5123	Woodbury	11	42 14	95 48	1250	12	12				1 2 3	
Bartlett 3 E	0493	Fremont	26	40 53	95 44	-		4						Mapleton 2 SW	5127	Monona	11	42 10	95 48	-		2				2	
Beaver	0549	Boone	6	42 02	94 08	-		10						Maquoketa 5 E	5131	Jackson	12	42 02	90 35	-	47	58				1 2 3	
Bedford 1 N	0576	Taylor	28	40 41	94 44	1215	47	47						Marion 4 NE	5163	Line	4	42 03	91 33	-		4				2	
Belle Plaine	0600	Benton	10	41 54	92 17	855	60	75						Marshalltown	5198	Marshall	10	42 04	92 56	898		10				1 2 3	
Bellevue Lock & Dam 12	0608	Jackson	14	42 16	90 25	803	14	14						Mason City 3 N	5230	Cerro Gordo	4	43 11	93 12	1148	53	59				1 2 3	
Blackton 2 S	0745	Taylor	19	40 36	94 29	1081		7						Mason City AP CAA	5235	Cerro Gordo	4	43 09	93 20	1194	6	9				1 2 3	
Bloomfield 2 N	0753	Davis	8	40 47	92 26	825	32	36						Merrill 5 W	5418	Plymouth	7	42 43	96 20	-		4				2	
Boone	0807	Boone	6	42 04	93 53	1126	46	67						Wilford 4 NW	5493	Dickinson	18	43 23	95 11	1402	12	12				1 2 3	
Boyer 5 SE	0853	Crawford	3	42 09	93 12	-						Oct.	2	Willerton	5517	Wayne	5	40 50	93 18	1070	57	67				1 2 3	
Britt	0923	Hancock	10	43 04	93 49	1234	53	66						Wineola 3 SW	5549	Wills	15	41 08	95 44	-				Sept	2		
Burlington WB Airport	1063	Des Moines	14	40 47	91 07	695	54	61						Missouri Valley	5584	Harrison	3	41 33	95 54	1068	10	10				1 2 3	
Carroll	1233	Carroll	20	42 04	94 52	1280	61	65						Moneta	5613	O'Brien	11	43 08	95 23	-				Nov.	2		
Carson	1245	Pottawattamie	16	41 14	95 25	-								Monmouth 4 SW	5622	Jones	12	42 03	90 55	870	10	10				1 2 3	
Cascade	1257	Dubuque	12	42 16	91 06	880	3	9				Sept.	1 2 3	Monona	5630	Clayton	14	43 03	91 22	-		10				2	
Castana 4 E	1277	Monona	11	42 04	95 49	-	2	2						Montezuma	5650	Poweshiek	10	41 35	92 31	-		1				2	
Cedar Falls	1300	Black Hawk	4	42 32	92 27	875		30						Morse	5732	Johnson	10	41 44	91 26	-		10				2	
Cedar Rapids No. 1	1319	Linn	4	41 59	91 39	813	68	69						Morse 1 NE	5737	Johnson	10	41 45	91 25	-		7				2	
Cedar Rapids No. 2	1324	Linn	4	41 58	91 40	-		19						Morse 4 SW	5742	Johnson	10	41 41	91 28	-						2	
Centerville	1354	Appanoose	5	40 43	92 53	1013	47	58						Mount Air 2 N	5769	Ringgold	9	40 44	94 14	1214	57	59				1 2 3	
Chariton 3 E	1394	Lucas	5	41 00	93 15	940	58	57						Mount Pleasant	5796	Henry	21	40 57	91 32	730	69	75				1 2 3	
Charles City	1402	Floyd	4	43 04	92 40	1013	60	76						Noville	5823	Woodbury	11	42 29	96 04	-		10				2	
Cherokee	1442	Cherokee	11	42 45	95 33	1258	29	31						Muscataine No. 1	5837	Muscataine	14	41 26	91 03	680	60	106				1 2 3	
Clarence	1529	Cedar	4	41 53	91 03	-		1						Muscataine No. 2	5842	Muscataine	14	41 25	91 03	546		46				2	
Clarks	1533	Page	17	40 44	95 01	1004	61	79						Muscataine 6 N	5847	Muscataine	14	41 30	91 03	-		5				2	
Clarion	1541	Wright	2	42 44	93 44	1170	6	6						Nashua 2 NW	5872	Floyd	4	42 59	92 34	980		1				2	
Clinton No. 1	1635	Clinton	14	41 50	90 11	589	81	80						New Hampton	5952	Chickasaw	27	43 04	92 19	1156	53	54				1 2 3	
Clinton No. 2	1640	Clinton	14	41 50	90 11	-		18						Newton	5992	Jasper	21	41 42	93 04	950	41	53				1 2 3	
Columbus Junction	1731	Louisa	10	41 17	91 22	595	50	60						North English	6076	Iowa	4	41 29	92 05	780		10				2	
Coon Rapids	1793	Carroll	20	41 31	94 39	-		10						Northwood	6103	Worth	4	43 27	93 13	1222	55	55				1 2 3	
Corning 1 W	1833	Adams	17	41 00	94 45	1300	58	63						Norwich SCS Exp. Farm 2 E	6119	Page	32	40 45	95 12	1132	12	12				1 2 3 4	
Corydon	1848	Wayne	9	40 46	93 19	-						June	2	Oakland 2 E	6151	Pottawattamie	16	41 19	95 23	1150	32	38				1 2 3	
Council Bluffs 6 NE	1888	Pottawattamie	15	41 20	95 49	-								Oasis	6186	Johnson	10	41 43	91 24	-		9				2	
Council Bluffs 5 NE	1889	Pottawattamie	15	41 19	95 49	-		2						Oelwein 2 SE	6200	Fayette	37	42 39	91 54	-		27	27			1 2 3	
Cresco	1954	Howard	23	43 22	92 07	1285	14	14						Onawa	6243	Monona	15	42 02	96 06	1050	49	66				1 2 3	
Creston Airport 3 NE	1962	Union	19	41 06	94 20	1312	46	50						Osage	6305	Mitchell	4	43 17	92 48	1170	50	66				1 2 3	
Cumberland 5 NW	2007	Cass	17	41 18	94 55	1225		52						Osceola	6316	Clarke	6	41 02	93 46	1136	26	30				1 2 3	
Cushing	2026	Woodbury	11	42 28	95 40	1350	17	17				Dec.	2	Oskaloosa	6327	Mahaska	8	41 17	92 40	813	68	75				1 2 3	
Dakota City	2037	Humboldt	6	42 44	94 13	1133	59	67						Ottumwa AP CAA 5 W	6389	Wapello	6	41 06	92 27	842	5	5				1 2 3	
Davenport WB City	2089	Scott	14	41 31	90 34	578	79	80						Ottumwa	6391	Wapello	6	41 00	92 24	620		36				2	
Decorah																											

CHANGES IN STATION NAMES

Moneta: Hartley 3 S prior to November 28.

RELOCATIONS OR CHANGES IN EXPOSURE OF INSTRUMENTS

Beaver: Rain gage moved 2 blocks north and 3 blocks east of old site on May 13.
Boyer 5 SE: Rain gage moved 1.8 mile east-northeast of old site on October 18.
Creston AP 3 NE: Equipment moved 3.5 miles northeast of old site on September 7.
Cushing: Rain gage moved 3 miles southeast of old site on August 18.
Decorah: Equipment moved 2 miles north of old site on November 4.
Estherville: Equipment moved 1500 feet northwest of old site on June 20.
Forest City: Equipment moved 40 feet south on September 1.
Ida Grove 4 SSE: Standard rain gage moved 150 feet west of old site on August 17.
Keosauqua: Equipment moved 2 miles northeast of old site on June 28.
Lamoni CAA AP: Recorder rain gage moved from downtown location to airport on March 23.
Merville: Rain gage moved 1000 feet north-northwest of old site on August 18.
Muscatine No. 1: Equipment moved 30 feet north of old site on June 30.

REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F; precipitation and evaporation in inches, and wind movement in miles. Evaporation is measured on the standard Weather Bureau type pan of 4 foot diameter unless otherwise shown by footnote following Table 4.

The four digit identification numbers in the Index are assigned on a state basis. There will be no duplication of numbers within a state.

Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

Delayed data and corrections will be carried in the June and December issues of Climatological Data.

- No record.

+ Also later date (dates) or months.

* Amount included in following measurement.

// Gage is equipped with a windshield.

B Adjusted to full month.

E Water equivalent of snowfall wholly or partially estimated, using a ratio of 1 inch of water equivalent to every 10 inches of new snowfall.

M 1 to 9 days' record missing; see monthly Climatological Data for detailed daily record.

R Station equipped with a recording gage only.

T Trace, an amount too small to measure.

V Includes total for previous month.

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W.B.O., Kansas City, Mo. -- 5-4-51 -- 1125



IOWA

STATUTE MILES
0 10 20 30 40

- STATION LEGEND**
- ● ○ Precipitation only
 - ○ Precipitation, storage
 - ● ○ Precipitation and Temperature
 - ● ○ Precipitation, Temperature and Evaporation
 - Section Center
- Type of gage: ○ Non-recording;
● Recording; ○ Both types
Double circle combinations: Complete Meteorological.

STATE LIBRARY OF IOWA



3 1723 02105 6742