

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, JANUARY, 1926 No. 1

GENERAL SUMMARY

Mild winter weather prevailed during most of January, with a mean temperature of more than four degrees above the normal. Temperature fluctuations were numerous and sudden, but the periods that were above normal were more protracted than those below; in fact, there was but a single cold period that continued for more than two days in the whole State, that from the 19th to 25th, inclusive, and during this period there were several days in all portions of the State that were just normal or slightly above. Sudden changes were common and at a few stations the warmest day followed the coldest, and over a large portion of the State the warmest and coldest occurred within three days of each other. Thawing weather occurred frequently, beginning during the first week, which caused the snow cover to diminish rapidly and to disappear entirely over a large portion of the State. In level fields and some north slopes the melted snow covered the ground with a solid sheet of ice in many localities and this condition is thought to have injured winter grain and clover and alfalfa fields.

There were no severe storms, but there was considerable wind on the 11th and 27th that caused the snow to drift somewhat but not enough to interfere with traffic. There were four periods of precipitation that were general over most of the State. The first storm, on the 3rd and 4th, began as rain over most of the State and changed to sleet or snow, which caused considerable damage to automobiles from skidding. The storm that occurred over most of the western half of the State on the 30th and 31st was in the form of rain that fell with the temperature near the freezing point. This condition caused a glaze storm over a large area. At Rock Rapids the storm was the worst in recent years, resulting in numerous injuries from falling and many automobiles were damaged in skidding. Trees and wires suffered very little as there was very little wind accompanying and the ice soon melted. While the average precipitation was above normal, over most of the State, it was deficient, the excess being due to rather marked excesses at stations in the western and extreme northeastern portions.

Conditions were favorable for out door work almost all of the month, the usual farm activities being carried on with little inconvenience. Building operations continued with very little interruption, though there was very little in progress. Some corn was gathered in the

southeastern portion. The ice harvest was completed in all sections of the State, and, as a rule, a good quality of the desired thickness was secured, but in localities the snow prevented it from freezing and much of the top had to be cut away, leaving in some cases not more than 5 inches of good ice.

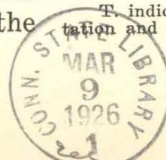
Stock wintered well and much rough feed was conserved, which is becoming scarce in localities in the northwest portion. The frequent freezing and thawing kept the surface of all unpaved roads soft most of the time, but they were fair and passable during the entire month, except some dirt roads in the southern portion were impassable for a few days after the rain of the 3rd and during the last week.

F. L. D.

COMPARATIVE DATA FOR THE STATE—JANUARY

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre-.01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	12.0	- 6.5	55	-38	2.53	+ 1.45	3.56	0.50					
1874.....	19.6	+ 1.1	64	-24	1.67	+ 0.59	4.72	0.22					
1875.....	4.9	-13.6	48	-30	0.82	0.26	1.61	0.38					
1876.....	23.5	+ 5.0	62	-16	1.49	+ 0.41	3.96	0.00					
1877.....	13.7	- 4.8	58	-31	1.09	+ 0.01	3.04	0.37					
1878.....	25.4	+ 6.9	55	-13	0.48	0.60	5.00	0.00					
1879.....	16.1	- 2.4	54	-30	0.48	0.60	1.48	0.00					
1880.....	32.0	+13.5	68	- 6	1.36	+ 0.28	4.52	0.20					
1881.....	9.6	- 8.9	48	-40	0.94	+ 0.14	3.10	0.04					
1882.....	23.4	+ 4.9	60	-17	0.65	0.43	1.80	0.09					
1883.....	8.0	-10.5	46	-38	1.31	+ 0.23	2.85	0.35					
1884.....	13.3	- 5.2	52	-38	0.52	0.56	1.50	0.02					
1885.....	9.4	- 9.1	51	-42	1.28	+ 0.20	3.72	0.18					
1886.....	8.1	-10.4	52	-33	2.59	+ 1.51	4.85	0.68					
1887.....	8.8	- 9.7	55	-34	1.13	+ 0.05	2.92	0.04					
1888.....	5.4	-13.1	58	-43	1.30	+ 0.22	4.00	0.40					
1889.....	21.6	+ 3.1	62	-25	1.22	+ 0.14	2.30	0.50					
1890.....	18.0	- 0.5	64	-27	1.79	+ 0.71	3.46	0.35					
1891.....	26.0	+ 7.5	58	- 4	1.75	0.67	3.99	0.61		4	13	7	11
1892.....	15.3	- 3.2	76	-38	1.09	+ 0.01	3.13	0.10	6.9	5	16	9	6
1893.....	9.3	- 9.2	54	-34	0.74	+ 0.34	3.20	0.13	6.9	6	11	9	11
1894.....	19.3	+ 0.8	69	-37	1.09	+ 0.01	2.24	0.31	6.0	5	14	9	8
1895.....	13.6	- 4.9	68	-31	0.85	0.23	2.65	0.09	8.7	4	15	7	9
1896.....	23.4	+ 4.9	68	-20	0.48	0.60	2.10	T. 2.8	3	10	10	11	
1897.....	17.2	- 1.3	66	-30	2.01	+ 0.93	6.16	T. 8.2	7	12	7	12	
1898.....	23.4	+ 4.9	52	-11	1.60	+ 0.52	5.32	T. 12.6	5	15	6	10	
1899.....	19.8	- 1.3	68	-34	0.28	0.80	1.15	T. 1.5	3	15	10	6	
1900.....	25.6	+ 7.1	66	-20	0.53	0.55	2.47	T. 2.3	3	16	7	8	
1901.....	23.7	+ 5.2	60	-21	0.74	0.34	2.34	T. 6.2	4	14	9	8	
1902.....	22.4	+ 3.9	63	-31	0.88	0.20	2.83	T. 1.9	9.4	4	17	8	6
1903.....	23.0	+ 4.5	60	-12	0.28	0.80	1.46	T. 2.0	4	13	7	11	
1904.....	14.0	- 4.5	57	-32	1.18	+ 0.10	3.68	T. 6.1	6	12	8	11	
1905.....	11.2	- 7.3	56	-30	0.91	0.17	1.82	T. 11.1	7	14	7	10	
1906.....	24.6	+ 6.1	69	-19	1.52	+ 0.44	4.71	T. 11.3	5	14	6	11	
1907.....	18.8	- 0.3	68	-22	1.52	+ 0.44	5.30	T. 10.0	6	7	8	16	
1908.....	24.9	+ 6.4	60	-18	0.44	0.64	1.50	T. 0.6	4.8	2	17	8	6
1909.....	21.2	+ 2.7	72	-25	1.66	+ 0.58	3.74	T. 0.41	7.8	6	9	6	16
1910.....	18.1	- 0.4	56	-35	1.57	+ 0.49	3.15	T. 5.5	12.6	6	13	7	11
1911.....	20.2	+ 1.7	66	-35	0.97	0.11	3.73	T. 0.11	7.3	5	9	8	14
1912.....	4.2	-14.3	49	-47	0.53	0.55	1.90	T. 5.5	5	14	7	10	
1913.....	20.9	+ 2.4	62	-25	0.77	0.31	2.05	T. 0.04	7.2	5	14	9	8
1914.....	27.8	+ 9.3	64	-10	0.88	0.20	2.34	T. 5.1	5	11	8	12	
1915.....	17.5	- 1.0	59	-32	1.63	+ 0.55	3.15	T. 10.0	7.3	8	13	8	10
1916.....	17.8	- 0.7	63	-34	2.62	+ 1.54	6.07	T. 0.85	7.2	10	12	6	13
1917.....	17.0	- 1.5	60	-28	0.83	0.25	2.07	T. 0.17	7.2	4	17	8	6
1918.....	8.6	- 9.9	53	-35	1.02	0.06	2.79	T. 2.6	11.2	7	13	8	10
1919.....	26.8	+ 8.3	64	-32	0.24	0.84	0.86	T. 2.8	2	20	5	6	
1920.....	16.7	- 1.8	58	-26	0.42	0.66	1.05	T. 4.6	4	12	8	11	
1921.....	28.4	+ 9.9	67	- 9	0.51	0.57	1.92	T. 10.0	4.1	4	11	7	13
1922.....	19.8	- 1.3	57	-29	0.89	0.19	2.30	T. 0.32	5.3	4	17	6	8
1923.....	26.7	+ 8.2	58	-10	0.85	0.23	2.34	T. 6.5	6	10	7	14	
1924.....	13.9	- 4.6	59	-36	0.89	0.19	2.47	T. 0.6	5.5	5	17	7	7
1925.....	19.4	+ 0.9	55	-24	0.40	0.68	1.23	T. 0.05	4.2	3	17	7	7
1926.....	22.7	+ 4.2	58	-22	1.09	+ 0.01	2.68	T. 0.31	6.0	7	10	9	12

T indicates an amount too small to measure, or less than .005 inch precipitation and less than .05 inch snowfall.



Climatological Data for January, 1926

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit							Precipitation, in inches				Number of Days				OBSERVERS		
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy		Prevailing direction of wind	
<i>Northern Division</i>																					
Algona	Kossuth	1,213	52	19.9	+ 4.5	39	16†	-12	28	39	0.58	- 0.24	0.28	5	16	3	12	nw.	W. E. Laird		
Allison (near)	Butler	1,044	13	18.6	+ 3.3	42	16	-16	28	45	0.75	+ 0.45	0.40	3.5	4	9	15	7	nw.	J. A. Bell	
Alta	Buena Vista	1,513	34	19.3	+ 3.3	39	29	-13	22	39	1.52	+ 0.76	0.56	6.0	10	9	7	15	nw.	D. E. Hadden	
Alton	Sioux	1,305	20	18.6	+ 3.1	38	18	-13	12†	46	1.14	+ 0.38	0.53	7.0	6	7	11	13	nw.	W. S. Slagle	
Belmond	Wright	1,181	15	19.0	+ 4.3	41	17	-15	28	41	1.02	- 0.24	0.45	4.2	9	5	7	19	nw.	H. F. Luick	
Britt	Hancock	1,236	38	18.8	+ 4.6	39	31	-14	28	41	0.61	- 0.07	0.28	2.0	3	10	13	8	nw.	James S. Ross	
Charles City	Floyd	1,015	34	17.8	+ 4.1	40	30	-15	28	45	1.09	+ 0.06	0.53	4.8	8	8	11	12	nw.	U. S. Weather Bureau	
Cherokee	Cherokee	1,196	3	18.4	.....	38	18	-16	22	41	1.37	.....	0.66	5.0	4	11	9	11	s.	J. E. Wirth
Decorah	Winneshiek	875	32	17.0	+ 1.8	39	4†	-19	28	44	1.31	+ 0.07	0.68	8.0	6	13	10	8	nw.	M. D. Whitney	
Dubuque	Dubuque	698	52	22.2	+ 3.1	48	30	-13	12	36	1.40	- 0.16	0.67	7.4	7	7	7	17	nw.	U. S. Weather Bureau	
Estherville	Emmet	1,298	30	17.4	+ 4.3	42	17	-14	28	32	0.92	+ 0.34	0.35	3.5	8	12	9	10	nw.	A. O. Peterson	
Fayette	Fayette	1,003	37	18.4	+ 3.0	41	16†	-18	12	47	1.31	+ 0.06	0.41	11.5	8	13	6	12	nw.	R. Z. Latimer	
Forest City	Winnebago	1,226	31	18.6	+ 4.3	40	16†	-15	28	38	0.93	+ 0.05	0.27	8.1	7	8	4	19	nw.	Dr. M. B. Neil	
Hampton	Franklin	1,145	.....	18.9	+ 3.0	41	29	-13	28	39	0.31	+ 0.90	0.14	1.4	5	13	8	10	sw.	L. H. Davis
Humboldt	Humboldt	1,095	37	20.4	+ 3.9	41	17	-12	28	40	0.64	- 0.17	0.38	2.0	4	4	11	16	nw.	H. C. Snitkey	
Independence	Buchanan	921	61	21.0	+ 4.1	46	31	-14	22†	37	0.51	- 0.66	0.21	4.3	5	10	5	16	nw.	Dr. George Boody	
Inwood	Lyon	1,474	21	16.4	+ 2.4	39	2	-20	28	47	1.33	+ 0.68	0.65	4.3	9	12	9	10	nw.	A. C. Hanson	
Lansing	Allamakee	632	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	29	20.0	+ 2.9	40	29	-14	28	38	1.49	+ 0.92	0.82	7.5	6	9	12	10	nw.	Mrs. M. C. Woolley	
Mason City	Cerro Gordo	1,148	28	18.2	+ 4.0	38	17†	-15	28	41	0.86	- 0.11	0.56	3.0	5	16	7	8	nw.	American Beet Sugar Co.	
Milford (near)	Dickinson	1,430	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Hunt
New Hampton	Chickasaw	1,169	28	16.0	+ 1.5	38	21	-18	28	40	1.06	+ 0.08	0.65	4.0	5	7	20	4	s.	E. J. Feuling	
Nora Springs	Floyd	1,064	13	18.8	+ 2.4	42	16	-15	12†	43	1.77	+ 0.67	0.58	5.5	11	12	9	10	s.	Arthur Betts	
Northwood††	Worth	1,222	29	38k	18	-16l	28	35l	0.80	- 0.34	0.30	6.0	6	sw.	Charles Dwell
Oelwein	Fayette	1,036	1	19.6	.....	42	30	-17	12	40	1.12	.....	0.32	14.0	4	9	7	15	w.	John T. Ridler
Osage	Mitchell	1,163	.....	16.9	.....	39	16	-18	28	39	0.80	.....	0.37	7	5	14	12	nw.	W. G. Mee	
Pocahontas	Pocahontas	1,248	21	19.6	+ 3.6	40	16†	-14	22	43	1.24	+ 0.46	0.52	3.5	8	10	7	14	nw.	F. E. Hronek	
Postville	Clayton	1,180	26	16.0	+ 0.8	40	16	-22	28	48	1.61	+ 0.38	0.80	14.0	7	7	9	15	sw.	F. L. Williams	
Rock Rapids	Lyon	1,358	26	18.2	+ 4.7	40	4	-15	22	38	1.53	+ 0.84	0.60	11.4	10	11	11	9	sw.	J. K. Medberry	
Sanborn	O'Brien	1,553	11	18.0	+ 3.4	38	3	-15	22†	42	2.68	+ 1.98	1.35	6.0	8	10	5	16	nw.	J. W. Dow	
Sheldon	O'Brien	1,418	.....	18.0	.....	39	18	-14	22	43	1.36	.....	0.67	6.6	13	10	11	10	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	26	18.2	+ 3.1	42	16	-14	28	39	1.84	+ 1.10	1.28	14.0	8	9	5	17	nw.	J. De Ruyter	
Spencer	Clay	1,319	11	18.5	+ 3.8	40	18	-12	22†	39	1.10	+ 0.40	0.53	7.5	7	10	7	14	nw.	E. W. Little	
Storm Lake	Buena Vista	1,440	36	20.6	+ 3.8	39	17†	-12	22	37	1.02	+ 0.32	0.40	2.6	9	12	4	15	nw.	George H. Fracker	
Washta	Cherokee	1,157	27	21.1	+ 4.5	42	17	-15	28	38	1.49	+ 0.88	0.87	2.5	4	11	5	15	n.	H. L. Felter	
Waterloo	Black Hawk	854	42	21.0	+ 3.6	44	29	-15	12	41	0.80	- 0.32	0.46	3.9	6	11	8	12	nw.	R. B. Slippy	
Waverly	Bremer	936	29	18.0	+ 1.8	40	16†	-16	12†	43	1.18	+ 0.07	0.62	6.5	5	20	4	7	nw.	D. H. Murphy	
West Bend	Palo Alto	1,197	32	19.5	+ 4.5	40	18†	-13	28	43	0.67	- 0.28	0.32	4.0	6	10	13	8	nw.	Jos. Dorweiler	
Means and extremes				18.8	+ 3.4	48	30	-22	28	48	1.15	+ 0.21	1.35	6.0	7	10	9	12	nw.		
<i>Central Division</i>																					
Ames	Story	926	48	23.2	+ 4.7	47	29	- 7	22†	38	0.66	- 0.24	0.50	1.8	4	13	5	13	se.	Iowa State College	
Audubon	Audubon	1,297	30	21.4	+ 4.3	46	17†	-10	22	45	1.78	+ 0.95	0.98	2.3	6	11	8	12	sw.	George Kibby	
Baxter	Jasper	998	25	23.4	+ 4.0	48	30	- 9	12	41	0.58	- 0.32	0.50	8.0	3	11	10	10	sw.	Henry Geise	
Belle Plaine††	Benton	866	35	23.8	+ 5.0	49	30	-12	12	40	1.03	- 0.53	0.61	5.8	8	4	17	10	nw.	O. C. Burrows	
Boone (near)	Boone	1,134	20	23.0	+ 5.1	47	29	-12	12	44	0.88	+ 0.04	0.65	1.3	7	11	7	13	nw.	C. F. Henning	
Carroll	Carroll	1,265	35	22.0	+ 4.6	43	29	- 9	22	37	1.33	+ 0.55	0.75	2.5	3	13	6	12	nw.	Mrs. Jos. J. Wolfe	
Cedar Rapids	Linn	737	43	22.8	+ 2.9	50	30	-13	12	40	0.70	- 0.70	0.50	2.0	4	10	4	17	nw.	J. T. Wurster	
Clinton	Clinton	595	52	24.6	+ 4.0	53	30	-15	22	46	0.81	- 1.01	0.45	4.7	7	12	6	13	sw.	Dr. A. P. Bryant	
Davenport	Scott	550	54	25.8	+ 4.0	56	30	- 9	22	38	0.94	- 0.61	0.54	6.1	9	9	6	16	w.	U. S. Weather Bureau	
Davenport (No. 2)	Scott	690	.....	26.2	.....	56	30	-11	22	41	1.02	.....	0.52	5.3	8	.....	.....	.....	.....	Rex Shriver
Denison	Crawford	1,171	31	22.2	+ 4.0	43	29	- 8	22†	34	1.40	+ 0.74	0.65	4.5	5	11	6	14	nw.	V. L. Byers	
Des Moines	Polk	861	47	25.4	+ 5.3	50	30	- 5	22	38	0.95	- 0.18	0.59	4.3	11	8	7	16	n.	U. S. Weather Bureau	
Fairport	Muscatine	567	4	26.2	.....	55	30	-14	22	45	0.98	.....	0.48	5.8	8	9	6	16	w.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	20.3	+ 3.6	42	18†	-12	22†	42	0.62	- 0.22	0.42	2.0	4	14	5	12	nw.	Samuel Sampson	
Grinnell	Poweshiek	1,031	31	24.4	+ 4.2	51	30	-10	12	39	0.54	- 0.61	0.25	4.1	6	12	11	8	w.	Paul P. Meyers	
Grundy Center	Grundy	976	34	20.4a	+ 1.9	45a	30	-12a	28	34a	1.26	+ 0.29	0.35	12.6	8	n.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	.....	.....	45	16†	- 8c	22	33c	0.86	+ 0.08	0.34	6.0	6	16	6	9	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	21.3	+ 3.2	43	29†	- 8	22	39	n.	Nels Bisgard
Iowa City	Johnson	733	65	24.6	+ 4.6	52	30	-10	22	41	0.95	- 0.69	0.61	4.5	7	12	8	11	nw.	Prof. J. F. Reilly	
Iowa Falls	Hardin	1,107	32	19.8	+ 4.1	41	16†	-14	12	43	0.84	- 0.40	0.48	5.1	8	10	13	8	nw.	J. B. Parmelee	
Jefferson	Greene	1,052	26	21.6	+ 3.5	44	29	- 8	22†	36	0.63	- 0.23	0.45	1.5	4	15	5	11	sw.	W. I. Lyon	
Le Claire	Scott	576	25	Margaret T. Disney
Little Sioux	Harrison	1,040	20	23.9	+ 4.6	46	29	- 7	22	36	0.90	+ 0.15	0.38	1.4	7	10	6	15	nw.	H. W. Kerr	
Logan	Harrison	1,035	58	25.0	+ 4.7	46	29	- 7	22	37	0.37	- 0.63	0.1								

Daily Precipitation for January, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals
		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	
<i>Southern Division</i>																																	
Afton	Grand		T.	.70	.10							.05									.08					T.						.24	
Albia	Des Moines			.72	.03						.02	.01	T.								.11	.06				T.	.03	T.			.08		
Atlantic	Nishnabotna		T.	.69	T.	.03				T.	.09		.08	.05							T.	.15				.05	.05	.08			.01		
Bonaparte (near)	Des Moines	T.		.72						T.	.05		.05	T.			T.			.12	T.	.08				T.	.06	T.			1.03		
Burlington	Mississippi			.82	.02				.03	T.		.05	.06	T.						.20	T.	.10					.21	T.			1.49		
Centerville	Chariton	T.		.89							.03	.04	T.					T.				.02	.05			T.	T.	.04		.01			
Chariton (near)	Chariton			.37																		.24								.20			
Clarinda	Nodaway			.67	.04							.20										.15				.05		.10		.32			
Columbus Jct.	Iowa			.30	.03					.02		.03	.04				.01		T.			.20	.10			.10	.09	T.		.01			
Corning	Nodaway	T.		.75	T.						T.										.20				T.				T.	.64			
Corydon	Chariton			.71	.02							T.	T.									.18				.03	T.			T.	.94		
Creston	Missouri	T.		.33							.05	.01									.08				.03					.25			
Cumberl'd (near)	Nodaway	T.	T.	.61	.07	T.					.03		T.	T.							T.	.01	T.			T.	T.		T.	.43			
Earlham (near)	Des Moines			.40	.13						T.	.20	.10									.20	.10			T.	T.	T.		.31			
Fairfield	Skunk			.14	.06						T.		.02	.04					T.			.20				.10	.10		T.	.06			
Glenwood	Missouri		.04	.65		.03					T.	T.										.20								.20			
Indianola	Des Moines			.02							.05	.10	.15									.20	.10			.05		T.		.30			
Keokuk***	Mississippi	.01	T.	.59					.06		.03	T.	.02	T.			T.	.04	.04		.09	T.			.03	.10	.01			.01			
Keosauqua	Des Moines	T.		.53					T.	.05		.05	.05	T.			T.	.02	.04		.10	.15			T.	T.	T.		T.	.95			
Knoxville	Des Moines			.65							T.	.10	.10								.05				T.	T.	T.		T.	.20			
Lacona	Des Moines			1.20				.10														.10	.05			.25	.01		.02	.40			
Lamoni	Grand	.01	T.	.62	.03						.01		.01		.10						.15				.02	T.			T.	.85			
Lenox	Missouri	.03	T.	.88							.03		T.								.10	.10			T.	.03	.03		T.	.65			
Mount Ayr	Grand	.04	T.	.54	.02						T.	.02	T.	T.							.04	.06			T.	T.	T.		T.	.27			
Mt. Pleasant	Skunk			.60							T.	.25	.02	T.							.02	.06				.03			T.	.98			
Oakland	Nishnabotna			.58				.10			T.										.20				T.	T.	T.	T.	T.	.18			
Oskaloosa	Des Moines			.67	.08	T.					.09	.07	.02				T.				.02	.12			T.	T.	T.	T.	T.	.04			
Ottumwa	Des Moines			.79							.03		T.								T.	.10			T.	.02				.02			
Red Oak (near)	Missouri	T.	T.	.98						T.	T.	T.	T.								.02	.10			T.	T.	T.		T.	.20			
Sigourney	Skunk			.30	.05	T.						.13	.04	.03				T.			T.	.27	.10			T.	.06	T.		.88			
Stockport	Skunk	T.		.82								.25	T.									.18				T.	.20			T.	1.55		
Thurman	Missouri	T.	T.	.82	.08	.05					T.	T.	T.								T.	.32			T.	T.	.02		T.	.06			
Tingley	Platt	.05	T.	.65	.17						.03	T.	T.								.04	.05			T.	T.	.02		T.	.22			
Washington	Skunk			.76	.02					.12		.16	.08								T.	.08	.24			T.	T.	T.		T.	1.46		
Wescott (near)	Mississippi			.20					.10			T.	.10								.05				.10	.20				.85			
Winterset	Des Moines			.40							T.	.08	T.									.16	.08			T.				.25			
Omaha, Neb.***	Missouri		.20	.59	.01		T.		.01			T.	.01									.12				.01	T.	T.		T.	.97		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

- |||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
- ***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.
- **Incomplete.
- *Precipitation included in the next following measurement.
- T. Precipitation is less than .01 inch rain or melted snow.

(Continued From Page 3)

SNOWFALL

The average snowfall for the State was 5.0 inches, or 1.7 inches less than the normal. The greatest amount, 14.0 inches, occurred at Oelwein, Postville and Sioux Center, and the least, 0.9 inch, occurred at Mt. Pleasant. Most of the northern division was snow covered the entire month, but in small areas in the west-central, east-central and along the southern border the snow cover remained less than 10 days.

MISCELLANEOUS PHENOMENA

- Aurora: 13th, 26th.
- Fog: 1st, 2d, 4th, 5th, 9th, 17th, 18th, 19th, 30th, 31st.
- Halos (lunar and solar): 1st, 2d, 6th, 7th, 8th, 10th, 11th, 16th, 21st, 24th, 25th, 28th, 30th.
- Haze: 1st.
- Parhelia: 11th, 25th.

- Sleet: 3d, 5th, 12th, 19th, 30th, 31st.
- Thunderstorms: 31st. (Two stations.)
- Winds (strong): 11th, 23d, 27th.

RIVERS

Low stages prevailed on all rivers bordering the State with very little fluctuation. The Mississippi was frozen the entire month and also the Missouri except there were some open spaces south of Omaha during the last week. The interior rivers were low and remained frozen most of the month, but the warm weather during the latter part of the month in connection with rather heavy rainfall over the western portion of the State caused rapid rises and streams went out of banks, the Nishnabotna, Boyer and East Boyer Rivers being affected most. Heavy gorges appeared on many streams in the western half of the State. The Boyer and East Boyer Rivers in the vicinity of Denison reached the highest stage ever known at this time of the year.

Daily Maximum and Minimum Temperature for the Month of January, 1926

Stations	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	Mean
<i>Northern Division</i>																																
Algona.....	(Maximum 30)	32	34	35	35	33	24	27	25	35	33	31	24	36	33	39	36	39	32	30	19	10	30	27	25	27	26	9	36	37	38	29.9
	(Minimum 22)	14	25	32	28	20	8	8	5	20	-4	-8	1	20	10	20	15	18	10	-3	-3	-10	0	-7	9	12	1	-12	5	23	28	9.9
Alta.....	(Maximum 32)	30	34	35	33	26	21	26	24	35	33	31	30	34	35	38	38	37	29	14	10	9	30	14	23	26	29	13	39	35	36	28.4
	(Minimum 19)	14	30	32	26	13	3	9	14	20	-6	-8	3	25	11	21	17	23	7	-2	-8	-13	0	-2	7	8	5	-11	12	27	21	10.2
Alton.....	(Maximum 27)	33	33	35	33	27	19	25	27	36	34	33	32	34	35	37	37	38	25	16	14	8	30	27	21	28	28	10	36	35	35	28.6
	(Minimum 11)	5	26	33	26	11	-2	7	20	22	0	-13	4	25	9	17	11	15	8	-3	-4	-12	-2	-2	8	5	8	-13	10	18	20	8.6
Belmond.....	(Maximum 30)	30	34	36	36	34	25	29	27	33	33	30	24	35	33	40	41	38	33	17	17	11	32	28	20	27	22	8	40	37	40	29.7
	(Minimum 22)	12	23	33	27	21	-2	0	3	17	-3	-11	-2	18	5	18	10	16	-1	-5	-13	-2	-3	7	8	-2	-15	5	25	33	8.2	
Charles City.....	(Maximum 31)	28	34	35	33	29	21	24	20	33	33	27	20	36	28	39	31	38	33	17	12	8	32	11	23	26	22	6	39	40	38	27.3
	(Minimum 22)	17	20	33	28	15	3	7	12	20	-12	-13	1	20	6	20	16	10	16	2	-11	-14	-4	-4	6	2	-7	-15	6	24	32	8.2
<i>Central Division</i>																																
Dubuque.....	(Maximum 31)	32	34	39	35	28	23	27	23	32	32	15	19	35	35	37	32	35	35	30	14	15	31	24	17	26	18	14	38	39	39	28.5
	(Minimum 20)	18	11	30	23	19	-5	5	10	10	-5	-17	-2	13	1	18	15	5	18	4	-10	-16	-9	-7	1	7	-11	-19	6	28	29	5.4
Forest City.....	(Maximum 30)	33	33	35	34	33	25	25	27	34	25	28	28	38	32	40	37	40	35	18	13	30	13	18	25	22	9	37	37	37	28.7	
	(Minimum 20)	12	22	30	26	21	3	5	10	18	0	-10	1	17	6	13	15	17	-1	-2	-13	-3	-5	6	12	-2	-15	2	22	22	8.6	
Independence.....	(Maximum 32)	28	36	36	37	34	28	24	24	33	34	16	25	36	35	38	36	39	37	36	17	11	32	35	19	27	25	18	40	41	46	30.8
	(Minimum 21)	20	19	32	30	24	20	17	12	10	7	-12	4	11	8	20	15	8	14	11	0	-14	-4	-2	8	7	4	-14	4	32	31	11.2
Inwood.....	(Maximum 29)	39	33	36	33	26	18	31	37	35	33	32	34	33	35	35	38	35	24	14	10	7	29	21	21	27	26	9	37	33	28.5	
	(Minimum 10)	6	27	32	22	5	-8	4	16	21	-3	-11	2	12	1	12	13	15	2	-9	-9	-18	-12	-4	4	10	7	-20	10	-3	18	4.3
Mason City.....	(Maximum 32)	33	33	34	35	29	22	24	24	33	32	28	25	34	30	35	38	37	32	18	17	9	31	25	20	25	21	3	37	37	38	28.1
	(Minimum 20)	13	20	32	26	21	0	3	5	13	-4	-13	-1	6	20	15	21	11	1	0	-7	-13	0	-4	7	7	0	-15	3	25	32	8.4
Milford (near).....	(Maximum 27)	31	32	35	36	32	30	24	23	22	33	16	23	29	35	28	34	35	35	33	16	4	7	30	10	23	26	22	10	33	38	26.2
	(Minimum 4)	18	17	30	27	21	1	3	10	10	16	-15	-4	1	5	8	20	10	11	3	-2	-17	-15	-6	6	6	-5	-18	4	8	33	5.8
Northwood.....	(Maximum 27)	31	32	35	36	32	30	24	23	22	33	16	23	29	35	28	34	35	35	33	16	4	7	30	10	23	26	22	10	33	38	26.2
	(Minimum 4)	18	17	30	27	21	1	3	10	10	16	-15	-4	1	5	8	20	10	11	3	-2	-17	-15	-6	6	6	-5	-18	4	8	33	5.8
Pocahontas.....	(Maximum 32)	31	34	35	34	31	24	30	25	35	32	29	35	35	40	39	40	34	17	15	10	30	29	21	26	30	21	11	38	36	29.9	
	(Minimum 22)	10	25	31	28	14	0	4	7	22	-4	-11	-2	22	5	24	11	16	11	1	-4	-14	-3	-2	9	9	6	-11	10	23	28	9.3
Postville.....	(Maximum 32)	25	33	35	35	29	22	22	20	30	32	17	19	36	30	40	29	37	33	32	16	13	29	27	18	26	19	1	38	37	37	27.4
	(Minimum 17)	17	12	29	23	12	-4	-5	10	10	-3	-17	-5	9	0	23	14	4	14	9	-10	-21	-7	-7	1	6	-11	-22	10	30	28	4.6
Rock Rapids.....	(Maximum 32)	32	34	40	37	32	20	25	27	36	35	33	32	33	35	35	37	38	25	15	13	4	28	25	15	28	25	12	35	37	38	28.8
	(Minimum 9)	8	22	32	26	8	-3	5	20	23	-3	-5	3	25	5	15	12	12	5	-5	-6	-15	-5	-5	7	5	9	-14	9	17	20	7.6
<i>Southern Division</i>																																
Belle Plaine.....	(Maximum 37)	32	35	37	38	34	26	28	25	36	38	28	31	40	35	45	36	42	40	26	19	10	32	31	32	30	31	17	45	49	46	33.3
	(Minimum 25)	20	29	34	31	25	10	18	13	12	-2	-12	3	18	11	27	19	15	24	15	2	-7	0	2	11	16	7	-8	5	36	36	14.2
Boone.....	(Maximum 38)	31	34	37	35	34	27	33	29	34	36	32	32	38	37	43	40	45	37	20	18	12	34	32	33	38	34	18	47	46	45	33.5
	(Minimum 25)	12	30	34	30	20	9	9	7	16	1	-12	1	23	6	19	13	12	20	6	6	-7	-3	3	10	18	9	-7	8	28	37	12.4
Carroll.....	(Maximum 36)	33	34	36	35	32	25	31	28	34	32	32	30	38	36	40	42	42	32	18	17	12	34	32	33	30	32	14	43	42	39	31.7
	(Minimum 23)	15	31	32	26	16	7	8	9	22	-2	-5	5	13	14	25	19	24	14	3	1	-9	3	2	11	13	11	-8	6	25	29	12.4
Cedar Rapids.....	(Maximum 35)	29	35	38	38	34	29	28	31	38	34	24	26	37	33	43	31	41	44	29	20	10	30	31	24	31	28	15	43	50	49	32.5
	(Minimum 23)	19	24	32	30	24	11	17	14	11	0	-13	4	18	10	25	17	12	19	16	-1	-10	-2	10	18	5	-10	3	38	35	13.2	
Davenport.....	(Maximum 39)	37	37	41	43	34	27	28	32	35	34	25	24	40	36	47	39	47	50	29	23	9	32	29	25	34	30	7	44	56	50	34.4
	(Minimum 25)	23	34	37	33	25	18	22	17	19	0	-4	11	24	19	32	27	25	27	23	-3	-9	-2	8	13	12	1	-6	6	42	35	17.2
Des Moines.....	(Maximum 39)	34	36	39	37	32	26	31	30	36	36	33	31	40	40	45	41	48	39	21	20	13	34	31	32	32	36	14	48	50	48	34.5
	(Minimum 23)	18	32	34	31	23	15	19	16	21	-3	10	29	20	31	23	23	17	11	-2	-5	0	8	13	14	6	-2	14	37	32	16.3	
Ft. Dodge.....	(Maximum 34)	32	34	36	36	34	27	29	25	34	33	32	31	36	34	40	40	42	37	19	25	10	34	30	22	23	30	16	42	39	40	31.5
	(Minimum 22)	10	27	30	27	17	2	7	3	18	-3	-10	-3	20	7	21	15	15	0	-4	-12	0	-2	6	10	4	-12	6	27	18	9.1	
Grinnell.....	(Maximum 36)	32	35	38	38	34	28	28	28	35	35	20	29	38	36	44	40</															

OLD TEMPERATURE RECORDS

On this page appears for the first time a table of monthly mean temperatures for the State of Iowa for the period 1873 to 1890 in a form fairly comparable with those published since 1890.

In computing these State-wide means for the earlier years, great care has been exercised to correct for faulty distribution of stations, and hours and methods of observation so that the means have been reduced very nearly to what they would have been if a station had reported regularly from each county, with observations taken each of the 24 hours of the day.

Necessarily the main reliance was placed in the records at the regular Signal Corps offices in and near Iowa. Records for these stations in various combinations were compared with the State-wide records of the same years to determine corrections for distribution of stations.

During the period August, 1878, to December, 1890, temperatures are available on the "homogeneous 24-hour mean" basis in U. S. Weather Bureau Bulletin S, for the stations at Davenport, Des Moines, Dubuque, Omaha, and Yankton. Excellent records of temperature were maintained on a farm near Cresco, Iowa, by Gregory Marshall from October, 1872, to September, 1901, and by others until October, 1905.

Fortunately, Mr. Marshall continued to take readings of the temperature at 7 A. M., 2 P. M. and 9 P. M. from the beginning until the close of 1900, from which monthly mean temperatures were computed by adding together the means of each of these hours and dividing by three. Parallel with these he took daily readings of maximum and minimum thermometers from which monthly means were computed and comparisons made for the seven years, 1894 to 1900. From U. S. Weather Bureau Bulletin S, corrections were interpolated between Charles City and La Crosse to reduce the maximum plus minimum divided by 2 series to the 24-hour mean. These corrections are shown in the table, Series I. They amount to nothing in March, May, June, July and for the year; and the greatest is only -0.3° in October. The means for the period 1894-1900, thus converted into 24-hour means, were compared with means of 7 A. M., 2 P. M. and 9 P. M. readings for the same period to determine the corrections to reduce the entire record to the 24-hour system. These corrections are numbered II in the table.

The monthly means of these six stations for the years 1894 to 1900 were compared with the means of all available stations approximating one in each county and corrections, Series III, were determined to correct the means of the six stations for geographical position or distribution. For convenience, this correction is called the "area correction." Keokuk data were omitted for the reason that they increased all corrections without apparently increasing the accuracy of the work.

From January, 1874, to July, 1878, no temperature records were made at Des Moines, so another set of "area corrections" for the five remaining stations was determined. These are Series IV in the table. For the year 1873 Dubuque records are not available, so a set of corrections for the remaining stations—Cresco, Davenport, Omaha and Yankton—was used and these appear in the table as Series V.

Means for the year 1890 were recomputed and revised. Those heretofore published were based on a limited number of stations not well distributed, during the early organization period of the Iowa Weather and Crop Service cooperating with the U. S. Weather Bureau.

Monthly means since 1890, also published on this page, are the same as have appeared in "Climatological Data" in the table of "Comparative Data for the State" except in a few cases where topographical errors have crept in through frequent repetition. The figures here published have been compared with the originals and in two or three cases the originals have been recomputed.

Since 1890, the means are based on daily readings of maximum and minimum thermometers which are closely comparable with the means of the period 1873-1890 reduced to the 24-hourly reading basis. The corrections needed, though not here applied, to reduce the later series to the earlier is shown in the table of "Miscellaneous Corrections," Series VI. It will be observed that these corrections are small, being zero in the months of May, June, July and December, and averaging only -0.1° for the year. The greatest correction is only -0.3° .

Several temperature records other than those used are available during the period 1873 to 1890, but the unknown, and therefore unmeasurable, differences in exposure and kind of instruments and hours and methods of observation made it doubtful if greater accuracy could have been attained by using these other records. The purpose of this study was to place the temperature of the State on a comparable, area basis rather than on a station basis. So far as known, data for other States have not been carried back so far or with such care. Still older records are available in Iowa, the oldest known beginning in October, 1819, at Council Bluffs. It is hoped that some time State means on an area basis can be carried back that far.

Hereafter, from month to month, the table of "Comparative Data for the State" on the first page of Climatological Data will include the mean temperature in the table herewith and, also, the extremes of temperature derived from all available records. Here-

tofore, these data have not been readily available. This table will, also, show comparable precipitation data back to 1873, but of this more will be said next month.

Other Useful Corrections

At the present time, seven Weather Bureau Offices, Charles City, Davenport, Des Moines, Dubuque, Keokuk, Sioux City and Omaha, report weekly mean temperatures by telegraph each Tuesday morning from which it is possible to compute a fairly accurate weekly mean temperature for the State of Iowa. The straight means of these seven stations should be corrected as shown by Series VII in the table to give means approximating those of the 100 or more stations at which records are maintained. This is based on a comparison of the normals of the whole number of stations with the normals of the seven stations. These normals have in each case been reduced to the "homogeneous 46-year" system.

Because of its nearly central location in the State, the Des Moines temperature record gives a quick means of approximating State-wide mean temperatures before records of the 100 or even the seven stations can become available. The possible error is, of course, relatively large, yet the mean thus obtained often serves a useful temporary purpose. The average corrections to reduce Des Moines mean temperatures to State-wide means appear in the table as Series VIII. These are simply a comparison of normals for the 46-year period to which all Iowa normals have been reduced.

Monthly and Annual Mean Temperatures for the State of Iowa

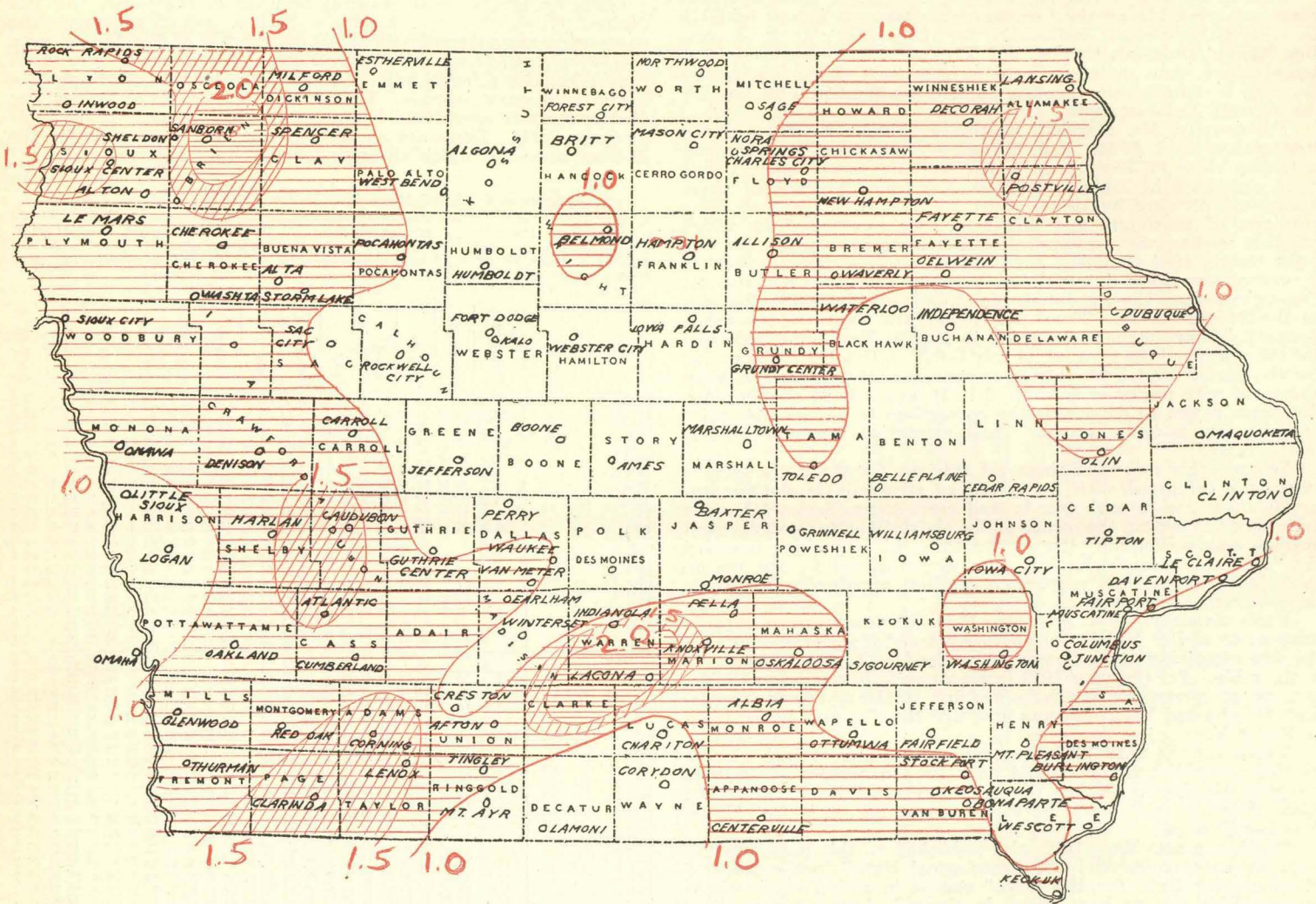
Based on the records of the stations at Cresco, Davenport, Des Moines, Dubuque, Omaha, and Yankton, or such combinations of these records as are available, reduced to a 24-hour homogeneous system and corrected for geographical position of the several combinations of the stations.
See U. S. Weather Bulletin, S.

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1873	12.0	19.2	34.0	43.2	56.5	74.5	74.0	75.7	59.1	46.0	36.2	22.6	46.1
1874	19.6	21.2	31.7	41.9	64.1	71.4	77.8	74.3	62.8	51.2	32.9	24.0	47.7
1875	4.9	6.4	26.9	43.0	60.5	67.5	72.8	68.9	60.6	47.8	30.1	30.0	43.3
1876	23.5	25.5	27.2	48.1	61.1	67.6	74.2	73.2	60.4	47.0	31.3	11.9	45.9
1877	13.7	34.0	27.3	47.5	60.3	66.9	74.0	71.9	65.4	49.6	33.3	36.8	48.4
1878	25.4	34.4	45.6	52.4	55.7	66.7	76.5	74.4	62.9	48.9	39.7	17.2	50.0
1879	16.1	21.6	37.2	50.3	62.9	69.4	76.0	72.0	59.3	58.3	36.3	16.1	48.0
1880	32.0	27.4	33.6	47.9	66.3	71.0	73.8	72.5	61.1	47.6	25.3	16.1	47.9
1881	9.6	17.0	27.1	42.5	66.7	70.4	75.9	76.5	64.5	52.1	34.4	33.8	47.5
1882	23.4	33.5	36.3	48.8	54.3	68.1	69.1	71.5	63.4	54.4	37.5	21.0	44.4
1883	8.0	17.7	30.6	49.9	54.6	67.6	72.9	69.2	58.5	47.2	36.8	24.8	44.8
1884	13.3	18.3	32.0	46.8	59.6	70.2	71.0	68.5	66.5	54.2	35.6	16.1	46.0
1885	9.4	12.5	31.3	47.5	57.4	67.9	74.6	66.9	61.7	46.7	36.4	24.6	44.7
1886	8.1	21.2	30.6	50.3	62.5	69.3	76.2	74.2	65.0	55.0	32.1	14.4	46.4
1887	8.8	17.1	33.5	51.1	64.6	72.1	77.0	70.8	62.1	46.4	35.1	20.3	46.6
1888	5.4	20.2	26.4	48.8	53.8	69.4	75.8	70.4	59.9	47.7	37.1	28.6	45.3
1889	21.6	17.8	39.7	50.3	59.2	66.7	72.6	71.3	60.7	47.5	33.0	35.8	48.0
1890	18.0	25.1	28.1	51.2	56.5	72.2	75.2	68.1	59.5	49.2	38.9	28.5	47.5
Means	15.2	21.7	32.2	47.9	59.8	69.4	74.4	71.7	61.7	49.8	31.6	23.5	46.8
1891	26.0	19.4	26.8	50.6	58.3	69.1	68.5	69.1	67.3	50.0	30.5	32.3	47.3
1892	15.3	23.1	31.9	45.4	54.0	69.2	73.0	71.4	64.7	54.5	33.9	18.9	46.6
1893	9.3	16.0	31.8	45.5	56.6	71.2	75.0	69.4	64.7	52.4	34.0	22.0	45.7
1894	19.3	19.7	41.0	51.7	61.1	73.2	76.4	74.6	65.1	51.7	32.7	30.1	49.7
1895	13.6	16.4	34.4	54.2	61.7	69.7	72.1	71.9	66.8	46.0	34.3	25.4	47.2
1896	23.4	27.4	30.9	54.5	65.5	69.1	73.6	71.7	58.5	47.8	29.6	30.8	48.6
1897	17.2	24.7	32.0	47.9	58.5	69.1	75.6	68.9	70.9	56.8	34.3	18.0	47.8
1898	23.4	24.2	37.5	48.1	59.6	71.4	73.4	71.2	65.3	47.5	32.2	18.1	47.7
1899	19.8	12.2	23.0	48.9	60.2	70.7	73.1	74.4	62.5	56.7	43.9	22.6	47.3
1900	25.6	14.8	30.7	52.2	63.2	69.7	73.4	77.4	64.4	59.3	33.5	26.9	49.3
1901	23.7	17.5	34.2	49.9	60.7	72.3	82.4	73.8	63.3	54.2	35.8	20.5	49.0
1902	22.4	17.6	39.1	48.2	63.8	65.2	73.1	69.1	59.1	53.5	41.2	20.1	47.7
1903	23.0	19.8	38.8	49.8	61.6	64.6	72.9	69.1	60.8	52.2	34.2	19.6	47.2
1904	14.0	14.8	34.8	44.1	59.0	67.1	70.6	69.1	64.0	53.1	41.0	23.4	46.3
1905	11.2	12.8	41.5	47.5	58.3	69.9	70.6	74.5	65.8	49.2	38.4	27.0	47.2
1906	24.6	23.6	27.1	52.5	60.8	67.9	70.9	71.1	67.2	50.5	35.4	25.7	48.4
1907	18.8	25.0	40.6	41.5	53.5	66.5	73.7	74.1	62.8	50.4	36.7	28.8	47.4
1908	24.9	24.3	37.9	50.5	59.4	67.1	73.0	70.0	67.9	51.1	39.3	27.2	49.4
1909	21.2	26.2	32.5	43.8	57.9	69.1	72.3	76.1	62.4	49.7	42.4	15.1	47.4
1910	18.1	17.8	48.9	52.5	55.4	69.5	74.5	71.9	63.2	55.2	33.4	23.4	48.6
1911	20.2	27.3	39.4	46.8	64.9	75.7	75.5	71.7	65.8	48.7	29.9	27.9	49.5
1912	4.2	18.1	24.9	49.9	62.7	66.2	74.6	71.0	62.1	52.2	40.1	29.2	46.3
1913	20.9	20.2	31.9	50.2	59.4	71.5	76.6	76.6	64.5	49.2	44.1	32.0	49.7
1914	27.8	16.8	34.7	48.6	62.2	72.2	76.6	73.7	64.5	55.9	41.0	15.7	49.1
1915	17.5	29.1	29.3	57.2	56.1	65.1	69.5	65.9	63.7	54.4	40.2	25.0	47.8
1916	17.8	19.0	35.2	47.1	59.9	64.5	79.7	74.0	62.5	50.9	37.3	18.7	47.8
1917	17.0	15.2	34.6	45.5	55.1	66.0	74.3	69.4	62.6	42.9	40.7	14.5	44.2
1918	8.6	23.0	42.9	44.8	64.9	70.8	73.1	76.0	58.6	55.1	39.9	32.7	49.2
1919	26.8	24.9	37.5	48.4	58.2	71.9	77.4	71.5	67.5	50.7	33.6	15.0	48.6
1920	16.7	24.0	38.0	42.4	59.4	70.7	72.3	69.3	66.5	57.7	35.4	26.4	48.2
1921	28.4	31.0	42.8	52.4	63.3	74.7	77.9	67.1	67.3	54.6	33.6	28.2	52.2
1922	19.8	23.7	38.3	49.9	63.4	72.2	71.5	73.8	67.1	56.1	42.2	24.0	50.2
1923	26.7	20.1	29.4	48.4	59.6	70.9	76.5	70.6	64.2	48.5	40.1	33.5	49.0
1924	13.9	25.8	31.9	50.5	54.1	66.8	70.2	71.7	59.1	58.1	38.9	15.4	46.4
Means	19.4	21.2	34.9	48.9	59.9	69.4	73.9	71.9	64.2	52.3	36.9	23.9	48.1

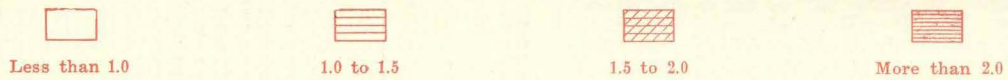
Temperature Corrections (F°)

Series	January	February	March	April	May	June	July	August	September	October	November	December	Year
I	+0.1	+0.1	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.2	-0.3	-0.2	+0.1	0.0
II	-0.5	-0.1	-0.1	-0.2	-0.5	-0.8	-0.7	-0.1	+0.2	0.0	-0.5	-0.3	-0.3
III	-0.6	-0.5	-0.3	-0.4	-0.5	-0.2	-0.4	-0.7	-0.9	-0.7	-0.4	-1.0	-0.6
IV	-0.3	-0.1	+0.1	-0.2	-0.4	-0.1	-0.3	-0.6	-0.7	-0.4	-0.1	-0.9	-0.3
V	-0.2	-0.1	-0.4	-0.2	-0.3	0.0	0.0	-0.7	-0.7	-0.3	+0.2	-0.8	-0.2
VI	-0.1	-0.1	-0.2	-0.2	0.0	0.0	0.0	-0.1	-0.2	-0.3	-0.2	0.0	-0.1
VII	-1.4	-0.6	-0.3	-0.6	-0.8	-0.8	-1.2	-0.9	-0.5	-0.7	-0.9	-1.2	-0.8
VIII	-1.6	-1.1	-1.2	-1.2	-1.1	-1.3	-1.6	-1.4	-1.3	-1.5	-1.8	-1.9	-1.4

TOTAL PRECIPITATION, JANUARY, 1926



SCALE OF SHADES IN INCHES



CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, FEBRUARY, 1926 No. 2

GENERAL SUMMARY

Unusually mild weather prevailed during the entire month of February and from a comparison with all available records the mean temperature for the State was the highest since 1882, when the mean was considerably higher at all stations from which records are available. However, at several stations in the eastern portion of the State, this February was not as warm as in 1915 and 1921. A rather unusual feature in connection with the mild condition was the uniformity of temperature. At stations along the Missouri River there was not a single day during the entire month on which the temperature was below normal and the greatest number of days on which the temperature was below normal was three, in the extreme eastern portion. Zero weather occurred at only a few stations, and the minimum for the State, -2° , was the highest of record for February. The excess was uniform over all divisions, but it was least over the eastern portion, where it amounted to less than 7° , and increased gradually to the Missouri River where it amounted to more than 10° .

The precipitation was unevenly distributed, varying from less than 0.10 inch at several stations in the northern division, to slightly more than 2.00 inches in the extreme eastern portion. The deficiency was general over all divisions, no station reporting an excess of more than 0.20 inch, and the number reporting slight excesses were small. All stations in the northern division were deficient. Most of the precipitation was in the form of rain, occurring in four well distributed periods. In the northern division, the precipitation was nearly all snow, but in the central division more than half was rain and in the southern division more than 75 per cent. There were no heavy falls except a locally heavy fall of 10.0 inches at Fort Dodge. There was very little drifting except during the storm of the 17th-18th, which was accompanied by considerable wind. But, as warm weather immediately followed, no serious delays resulted. The worst feature in connection with the weather was thawing that occurred almost daily. Dirt roads and many graveled roads became very soft and over most of the southern division and limited areas in other sections they were badly cut up, making travel

very difficult, and, in some cases, impossible by automobile. Rural mail carriers had to resort to the use of horses to carry mail in Henry county.

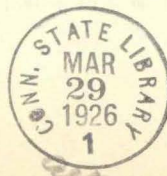
Frost was leaving the soil rapidly in most of the State but at the end of the month conditions were generally unfavorable for any extensive farm operations. Weather conditions were favorable for stock and the mild conditions were welcomed in the northwest portion where there has been a shortage of hay. Building operations were carried on with practically no interruption on account of weather.

F. L. D.

COMPARATIVE DATA FOR THE STATE—FEBRUARY

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	19.2	- 3.4	49	-25	1.17	- 0.03	2.52	0.30					
1874.....	21.2	- 1.4	59	-20	1.28	- 0.08	2.88	0.16					
1875.....	6.4	-16.2	48	-31	1.72	+ 0.52	6.75	0.82					
1876.....	25.5	+ 2.9	68	-16	1.11	- 0.09	3.63	0.15					
1877.....	34.0	+11.4	63	- 5	0.21	- 0.99	0.65	0.00					
1878.....	34.4	+11.8	60	- 8	0.59	- 0.61	2.95	0.00					
1879.....	21.6	- 1.0	57	-20	0.68	- 0.52	1.90	0.10					
1880.....	27.4	+ 4.8	68	-12	0.64	- 0.56	2.15	0.02					
1881.....	17.0	- 5.6	57	-24	3.10	+ 1.90	6.35	0.97					
1882.....	33.5	+10.9	72	-12	0.91	- 0.29	1.85	0.10					
1883.....	17.7	- 4.9	62	-33	1.89	+ 0.69	6.13	0.06					
1884.....	18.3	- 4.3	56	-23	1.32	+ 0.12	3.50	0.30					
1885.....	12.5	-10.1	54	-32	0.82	- 0.38	2.50	0.10					
1886.....	21.2	- 1.4	56	-34	0.59	- 0.61	1.96	0.24					
1887.....	17.1	- 5.5	60	-25	2.14	+ 0.94	5.64	0.12					
1888.....	20.2	- 2.4	64	-34	1.01	- 0.19	3.10	0.15					
1889.....	17.8	- 4.8	62	-28	0.47	- 0.73	1.70	0.00					
1890.....	25.1	+ 2.5	68	-24	0.83	- 0.37	2.18	0.25					
1891.....	19.4	+ 3.2	70	-31	1.16	- 0.04	2.41	0.55	3	13	7	8	
1892.....	28.1	+ 5.5	68	-20	1.20	0.00	2.18	0.12	5.0	6	6	7	16
1893.....	16.0	- 6.6	60	-28	1.39	+ 0.19	2.91	0.06	8.1	6	10	8	10
1894.....	19.7	- 2.9	60	-19	0.89	- 0.31	2.41	T.	8.4	3	16	8	4
1895.....	16.4	- 6.2	73	-33	0.49	- 0.71	1.34	0.02	3.3	4	13	9	6
1896.....	27.4	+ 4.8	78	-13	0.71	- 0.49	2.40	0.04	5.4	4	12	9	8
1897.....	24.7	+ 2.1	61	-24	0.89	- 0.31	1.81	0.22	8.0	5	6	10	12
1898.....	24.2	+ 1.6	62	-18	1.20	0.00	3.65	0.10	7.8	5	10	9	9
1899.....	12.2	-10.4	75	-40	0.89	- 0.31	4.32	0.12	7.1	5	11	10	7
1900.....	14.8	- 7.8	60	-27	1.30	+ 0.10	4.57	0.18	9.9	6	10	8	10
1901.....	17.5	- 5.1	49	-21	1.01	- 0.19	3.00	0.12	9.7	4	15	7	6
1902.....	17.6	- 5.0	62	-21	0.73	- 0.47	2.39	0.02	2.6	4	13	8	7
1903.....	19.8	- 2.8	56	-21	1.18	- 0.02	3.25	0.30	7.9	4	13	7	8
1904.....	14.8	- 7.8	70	-26	0.41	- 0.79	1.99	T.	4.5	4	10	9	10
1905.....	12.8	- 9.8	69	-41	1.57	+ 0.37	2.97	0.44	15.5	7	14	6	8
1906.....	23.6	+ 1.0	66	-32	1.29	+ 0.09	2.91	0.20	6.1	5	14	7	7
1907.....	25.0	+ 2.4	65	-31	0.71	- 0.49	1.95	0.06	4.6	4	14	6	8
1908.....	24.3	+ 1.7	59	-16	1.69	+ 0.49	3.95	0.23	8.9	6	12	6	11
1909.....	26.2	+ 3.6	62	-26	1.54	+ 0.34	4.72	0.30	7.7	5	11	6	11
1910.....	17.8	- 4.8	58	-21	0.46	- 0.74	2.09	T.	4.0	3	14	8	6
1911.....	27.3	+ 4.7	71	-13	2.76	+ 1.56	5.46	0.50	7.0	6	12	6	10
1912.....	18.1	- 4.5	57	-30	1.21	+ 0.01	3.25	0.04	11.2	5	10	9	10
1913.....	20.2	- 2.4	70	-24	0.82	- 0.38	2.39	0.07	7.3	4	14	7	7
1914.....	16.8	- 5.8	59	-29	0.87	- 0.33	1.99	0.32	9.2	6	10	9	9
1915.....	29.1	+ 6.5	62	- 8	2.93	+ 1.73	5.39	0.43	9.4	9	9	5	14
1916.....	19.0	- 3.6	62	-32	0.55	- 0.65	1.38	0.05	6.0	4	14	8	7
1917.....	15.2	- 7.4	68	-37	0.36	- 0.84	1.19	T.	3.5	3	14	8	6
1918.....	23.0	+ 0.4	70	-36	0.95	- 0.25	2.10	0.09	6.0	5	14	7	7
1919.....	21.9	+ 2.3	65	-16	2.42	+ 1.22	4.12	1.32	9.9	8	11	5	12
1920.....	24.0	+ 1.4	59	-22	0.56	- 0.64	1.75	0.04	4.1	5	9	6	14
1921.....	31.0	+ 8.4	76	- 5	0.77	- 0.43	2.00	T.	6.5	5	13	7	8
1922.....	23.7	+ 1.1	70	-20	1.59	+ 0.39	4.56	0.40	1.3	4	14	7	7
1923.....	20.1	- 2.5	61	-23	0.40	- 0.80	1.71	0.00	3.2	3	13	8	7
1924.....	25.8	+ 3.2	70	-15	1.27	+ 0.07	4.00	0.30	11.2	7	15	5	9
1925.....	28.4	+ 5.8	66	-16	0.82	- 0.38	3.69	T.	2.6	4	11	7	10
1926.....	31.2	+ 8.6	67	- 2	0.76	- 0.44	2.13	0.04	3.3	4	10	7	11

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Daily Precipitation for February, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals		
		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			
<i>Southern Division</i>																																			
Afton	Grand																	.19	.20						.39										0.78
Albia	Des Moines								T.	T.								.65	.35						.14	.15	T.							1.29	
Atlantic	Nishnabotna		.03						T.	.01								.51	.10						.43	T.	T.		.05					1.16	
Bonaparte (near)	Des Moines		T.	.08					T.	T.	T.			T.				.43	.43						.02	.32	T.							1.28	
Burlington	Mississippi		.06							.02	T.							.33	.50						.03	.38	T.							1.34	
Centerville	Chariton	T.	T.	T.					.01		T.							.76	.25						.10	.22	T.							1.34	
Chariton (near)	Chariton																	.59	.19	T.	T.				.12	.10								1.00	
Clarinda	Nodaway		.03															.24	.10						.45	.04								0.86	
Columbus Jct.	Iowa		.03	.07					T.	.02	T.		T.				.01	.42	.24						.01	.41	T.							1.21	
Corning	Nodaway		T.															.29							.25									0.54	
Corydon	Chariton																	.43	.18						T.									0.61	
Creston	Missouri																	.37	.10						.16				T.					0.63	
Cumberl'd (near)	Nodaway		T.						T.									.10	.08						.22									0.40	
Earlham (near)	Des Moines								T.									.08	.30						.18	.21	T.							0.77	
Fairfield	Skunk									T.								.27	.07						.09	.35	.01							0.79	
Glenwood	Missouri	T.	T.															.28							.22	.02								0.52	
Indianola	Des Moines	.10	T.							T.	T.							.05	.27						.11	.21	T.							0.74	
Keokuk**	Mississippi		.05	T.					T.	T.	T.			T.				.54	.32						.19	.04	T.							1.14	
Keosauqua	Des Moines								T.	T.	T.			T.				.47	.20						.30	.26	T.							1.23	
Knoxville	Des Moines								T.	T.	T.			T.				.55	.20						.10		T.							0.85	
Lacona	Des Moines	.05																.01	.30	.10					.12	.10	.10							0.78	
Lamoni	Grand	.10	T.															.78	.10						.15	.04								1.17	
Lenox	Missouri																	.20	.10						.15									0.45	
Mount Ayr	Grand								T.	T.								.35	.14						.08	.05	T.							0.62	
Mt. Pleasant	Skunk		.02						T.	T.								.47	.25						.06	.30								1.10	
Oakland	Nishnabotna		T.																.20															**	
Oskaloosa	Des Moines		T.	T.					T.	.02	T.							.43	.28						.05	.42	T.							1.20	
Ottumwa	Des Moines								T.	T.								.57	.34						.06	.30	T.							1.27	
Red Oak (near)	Missouri																	.10	.30						.40	T.								0.80	
Sigourney	Skunk		T.	T.						T.			T.					.49	.45						T.	.37	T.							1.31	
Stockport	Skunk		T.						T.									.49	.18						.06	.36	T.							1.09	
Thurman	Missouri	T.	T.	T.					T.									.14	.30						.42	T.	T.							0.86	
Tingley	Platt	T.	T.						T.									.20	.18						.13	.20	T.		.03					0.74	
Washington	Skunk		.01						T.	.02			T.					.55	.25						.08	.12	T.							1.03	
Wescott (near)	Mississippi		.05															1.05	.30						.45									1.85	
Winterset	Des Moines																	.15	.20						.30									0.65	
Omaha, Neb.***	Missouri	.01	T.						T.		T.	T.						.34							.42	T.	T.							0.77	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

- |||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
- ***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.
- **Incomplete.
- *Precipitation included in the next following measurement.
- T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 10)

SNOWFALL

The average snowfall for the State was 3.3 inches, or 3.7 inches less than the normal. The heaviest snowfall reported was 10.0 inches at Fort Dodge, and the least was a trace at Chariton, Corning and Ottumwa. The longest time that the snow remained on the ground was 25 days in a small area in the northeast portion; and at several stations in the southern division the period was less than one day. Over most of the State snow cover lasted less than a week.

MISCELLANEOUS PHENOMENA

- Aurora: 23d.
- Fog: 1st, 2d, 3d, 7th, 11th, 13th, 17th, 20th, 21st, 24th, 25th.
- Hail: 8th, 13th, 25th.
- Halos (lunar and solar): 4th, 5th, 6th, 8th, 11th, 16th, 18th, 20th, 25th, 27th.
- Haze: 12th, 20th.
- Sleet: 1st, 2d, 3d, 7th, 11th, 12th, 17th, 18th, 24th, 25th, 26th.
- Thunderstorms: 13th (two stations), 17th (1 station).
- Winds (strong): 5th, 8th, 9th, 11th, 14th, 16th, 25th, 28th.

THE WINTER OF 1925-1926

The mean temperature for the three winter months was 25.0°, which is 3.3° higher than the normal for the State, and 3.9° higher than the mean of 1924-1925. The winter was the warmest since the winter of 1920-1921, which had a mean temperature of 28.6°. The highest temperature reported was 67°, at Washington on

February 28th, and the lowest was -29°, at Waverly on December 29th.

The average monthly precipitation for the State was 1.05 inches, and the average total precipitation was 3.15 inches, or 0.27 inch less than the normal. The average total snowfall was 19.9 inches, or 0.2 inch more than the normal.

The average number of days with 0.01 inch or more of precipitation was 16, or 1 more than the winter of 1924-1925. The average number of clear days was 32, partly cloudy 24 and cloudy 34, as compared with 40 clear days, 20 partly cloudy days, and 30 cloudy days during the winter of 1924-1925.

RIVERS

Low stages prevailed on the Mississippi River throughout the entire month with very little fluctuation. The range at Dubuque was only 0.5 foot, but due to ice conditions in the lower course the range was greater with numerous fluctuations. Above Dubuque the river was frozen the entire month, but opposite that city an opening appeared on the night of the 27th-28th. Moderate stages prevailed on the Missouri River with a general falling tendency though there were numerous slight fluctuations due to ice gorges. It was frozen most of the month at Sioux City. The flood conditions that prevailed on the smaller streams in the extreme western portion of the the State the last of January continued into early February, after which rapidly falling stages occurred. On all other interior rivers the highest stages occurred generally at the first of the month and a falling tendency prevailed thereafter. Menacing ice situations developed on interior rivers but the mild weather caused a rapid melting and softening of the ice and the gorges did very little damage when they went out.

Daily Maximum and Minimum Temperature for the Month of February, 1926

Table with columns for Stations, days 1-31, and Mean. Rows are categorized into Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

FIFTY-THREE IOWA WINTERS

More than a half century of winter records are now available in comparable form in Iowa on a State-wide area basis.

In the fifty-three winters beginning with 1873-74, the coldest was 1874-75, when the mean temperature of the three winter months—December, January and February—was 11.8°; next stands 1884-85 with 12.7°; and 1880-81 with 14.2°.

The warmest winter was 1877-78 with a mean temperature of 32.2°; next stands 1881-82 with 30.2°; and 1920-21 with 28.6°.

In the last three decades the winters have not been as extremely warm or as extremely cold as in the preceding two decades. From 1874 to 1905 there was a general tendency for the winters to grow colder, but since then the tendency has been to grow warmer. Such long period variations have probably been going on for centuries.

There is slight evidence of a periodicity of twelve to fourteen years from one outstanding warm winter to the next, or from one extremely cold winter to the next. After an exceptionally warm winter there is, of course, more or less of fluctuation but a fairly well marked downward tendency, reaching an outstanding cold winter about the eighth or ninth winter, followed by a rather outstanding warm winter again about the twelfth or thirteenth.

If the periodicity of the past is maintained, the tendency of the next few winters will be to colder, reaching an outstanding cold winter in 1928-29 or 1929-30. As such periodicities often suddenly disappear, no positive prediction can be based on them.

Forty-seven below zero is the lowest official reading with a standard thermometer recorded in Iowa in the last fifty-three years. This was at Washta, Cherokee County, on January 12, 1912. The month of January, 1912, with a State mean of 4.2° is the coldest month of record; January, 1875, stands next with a mean of 4.9°. The warmest January was in 1880 when the State mean temperature was 32.0°.

The wettest winter was 1914-15 when the average for the State for the three winter months combined was 5.86 inches of rain and melted snow. The driest winter was 1919-20 with 1.52 inches of rain and melted snow. The greatest snowfall was in 1897-98, 36.3 inches, but snowfall records extend back to 1892-93, only.

Notable blizzards occurred January 7th-9th, 1873; January 7th-8th, 1886; January 12th, 1888; December 26th-28th, 1904; November 21st-22nd, 1898; January 28th-30th, 1908; February 9th, 1908; and March 18th, 1923.

IOWA WINTERS December, January and February for 53 years

Table with columns: Winter, Temperature (Mean, Departure, Highest, Lowest), Precipitation (Total, Departure, Snowfall), Number of Days (With pre. 01 in. or more, Clear, Partly cloudy, Cloudy). Rows list years from 1873-74 to 1925-26.

IOWA PRECIPITATION

53 Years, 1873-1925, inclusive

In the years 1873 and 1874 reliable precipitation records were maintained at only 15 places in Iowa. Upon the organization of the Iowa Weather Service in 1875, under Dr. Gustavus Hinrichs of the State University at Iowa City, the number of stations quickly expanded to 76 and by 1879 to 103. Later, the number decreased somewhat to 55 in 1889.

During all this time the stations were much more numerous in the more thickly populated eastern counties where the rainfall is considerably greater, so it is obvious that a straight average of all reports received would not be a fair average for the area of Iowa.

To correct this difficulty, the State has been divided into nine nearly equal districts of about 11 counties to the district, viz: northwest, north-central, northeast, west-central, central, east-central, southwest, south-central and southeast. All available records for each month of each year were retabulated by districts, questionable records eliminated and district averages computed. Then the nine district averages were brought together to make a State average for each month of each year. In this way a single station, if it was the only one in some dry western district, might have as much weight in the State average as 10 stations all in some normally wetter eastern district. In cases where a district average could be improved by considering a record near the border in an adjacent district this was done. The State averages thus obtained for the earlier years are believed to be comparable with the averages from approximately one station in each county after 1890. The averages for 1890 heretofore published have been revised on account of faulty distribution of records.

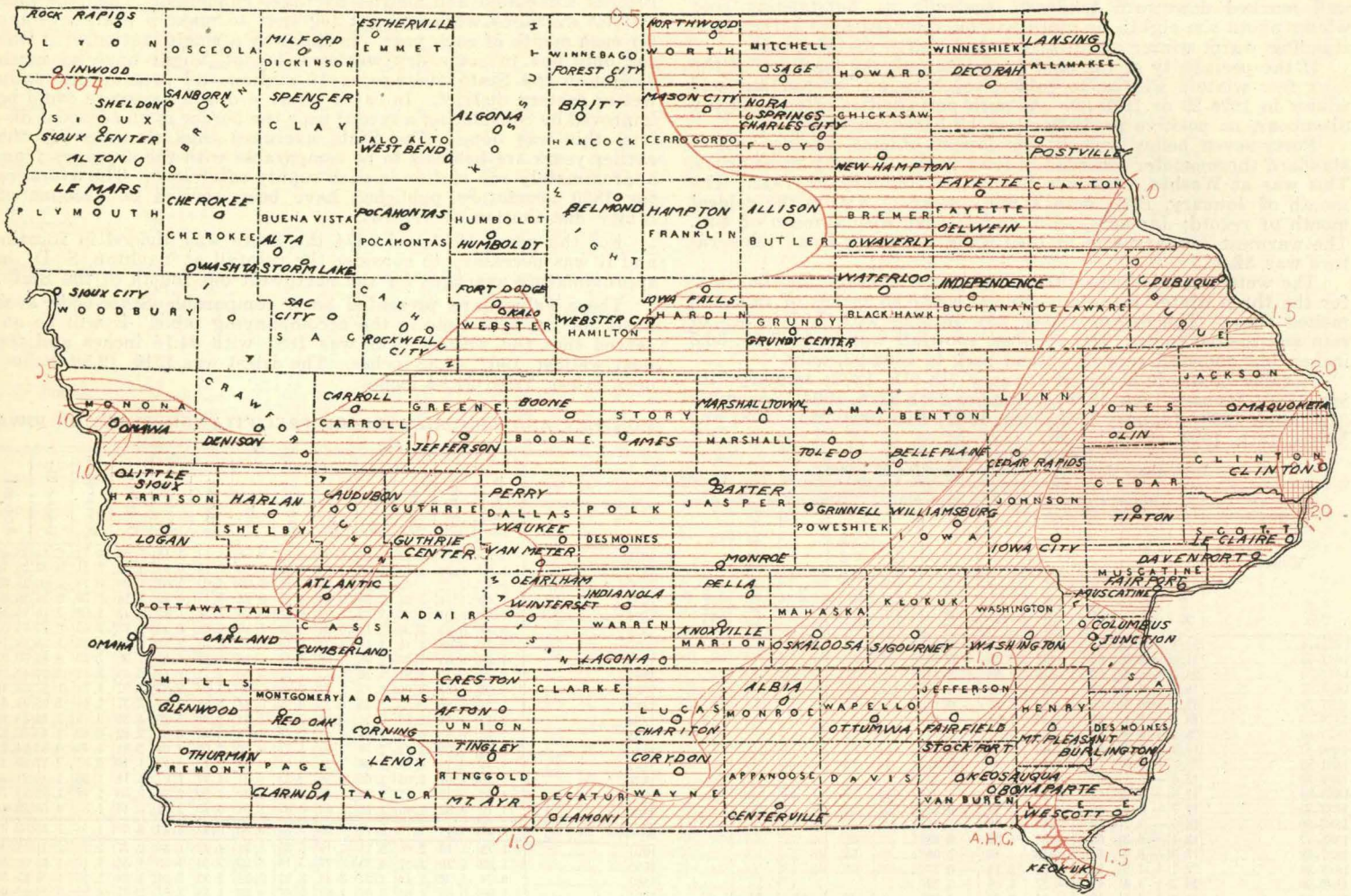
For the years 1873 and 1874 the State was divided in fourths and it was necessary to consider the rainfall at Yankton, S. D., in approximating averages for the northwest one-fourth of the State.

These values are presented on a comparable State-wide area basis for the first time in the accompanying table. It will be observed that the wettest year was 1881 with 44.16 inches and the next wettest, 1902, 43.82 inches. The driest was 1910, 19.89 inches; next driest, 1894, 21.94 inches.

MONTHLY AND ANNUAL AVERAGE PRECIPITATION—STATE OF IOWA

Table with columns: Year, and monthly precipitation from January to December, plus Annual. Rows list years from 1873 to 1925, with summary rows for 18 yrs, 35 yrs, and 53 yrs.

TOTAL PRECIPITATION, FEBRUARY, 1926



SCALE OF SHADES IN INCHES



CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII · DES MOINES, IOWA, MARCH, 1926 No. 3

GENERAL SUMMARY

The principal feature of the weather during March was the protracted periods of disagreeable weather that prevailed during most of the month. Conditions were more favorable over the extreme western portion of the State, but at many stations in the eastern half of the State the temperature did not go above normal during the first 16 days and during the last week cold, stormy weather prevailed over the entire State. The only mild period extended from the 17th to 24th, but during this period there was some precipitation and considerable wind.

The temperature averaged 2.6° below normal and was quite uniform over all divisions, but there was a decided contrast between the eastern and western portions; at several stations along the Mississippi River the deficiency averaged more than 5° daily, while at several stations in the extreme western portion there was an excess, the greatest being at Sioux City, where it amounted to 1.2° daily.

Stormy weather occurred at frequent intervals during the month, beginning on the 1st, but as this storm was accompanied by very little precipitation the only damage resulting was due to wind alone. The first storm of more than ordinary severity began as rain on the 5th in the western portion of the State and spreading over the State, ended as a snow storm accompanied by very strong wind. The attending damage and inconvenience was greatest in the northern half of the State. Huge drifts were formed that retarded rail traffic, made general automobile travel impossible and caused a temporary suspension of motor traffic. No highway travel was possible until passages could be cut through the drifts. The storm was generally referred to as a "Blizzard" in most of the northern half of the State. During the rest of the month there were several wind storms but very little precipitation. This caused the soil to dry rapidly and on the 24th and 25th dust storms developed over large areas in the western portion of the State, causing the soil to drift and causing the sun to appear red over sections farther east.

By far the worst storm of the month, and one of the most severe in the history of the State, occurred on the 30th-31st. This storm was due to an energetic barometric depression, the center of which passed northeastward from Texas across southern Illinois. The storm was most severe over the eastern portion of the State, but the entire State was affected by strong winds and all but about one-fifth by snow that gradually diminished from the southeast corner northwestward. Stations in the eastern portion reported the greatest March snowfall of record. The storm raged for from 24 to 36 hours and during its progress, and after, caused great inconvenience to every phase of life. The greatest damage and inconvenience resulted to counties along the Mississippi River and a number of counties in the southeastern and south central sections. Conditions were particularly bad in Dubuque. The snowfall, which began on the morning of the 30th,

lasting 36 hours and amounting to 8.6 inches, was the greatest amount ever recorded during a single storm in March. The high wind that accompanied the snow caused it to drift badly and completely blocked country roads and city streets. Street car service was abandoned throughout the city on the 31st. One line resumed operation at 4:00 p. m., but complete service was not resumed until noon of April 1st. Somewhat similar conditions prevailed in all river cities, and in the rural sections enormous drifts were reported, as high as 15 feet, that stopped all transportation temporarily. All railway traffic was delayed from 1 to 12 hours in the eastern portion of the State and travel by automobile was almost entirely abandoned.

Very little farm work was accomplished except there was some plowing and seeding in the northwestern portion. Conditions were not favorable for lambs and young pigs, the loss to both being considerable. During the mild weather, from the 17th to 24th, the frost left the ground rapidly but the cold weather during the last week caused it to freeze except where it was protected by snow.

F. L. D.

COMPARATIVE DATA FOR THE STATE—MARCH

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre-.01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	31.0	-0.7	72	-18	1.42	-0.33	3.70	0.33					
1874.....	31.7	-3.0	68	-4	1.43	-0.32	2.80	0.17					
1875.....	26.9	-7.8	80	-10	1.62	-0.13	3.80	0.45					
1876.....	27.2	-7.5	75	-6	3.24	+1.49	5.78	1.16					
1877.....	27.3	-7.4	72	-14	2.28	+0.53	6.54	0.20					
1878.....	37.2	+2.5	80	-3	1.18	-0.57	4.50	0.20					
1879.....	33.6	-0.8	80	-21	1.26	-0.49	3.90	0.15					
1880.....	37.2	+2.5	80	-3	1.18	-0.57	4.50	0.20					
1881.....	27.1	-7.6	56	0	1.91	+0.16	4.50	0.75					
1882.....	36.3	+1.6	78	4	1.82	+0.07	4.52	0.50					
1883.....	30.6	-4.1	72	-13	0.55	-1.20	1.40	0.00					
1884.....	32.0	-2.7	72	-16	2.57	+0.82	5.90	0.70					
1885.....	31.3	-3.4	65	-16	0.24	-1.51	1.25	0.00					
1886.....	30.6	-4.1	74	-9	1.72	-0.03	4.47	0.40					
1887.....	33.5	-1.2	76	-8	0.93	-0.82	3.50	0.00					
1888.....	26.4	-8.3	78	-12	3.04	+1.29	6.20	0.29					
1889.....	39.7	+5.0	80	8	0.47	-1.28	2.40	0.00					
1890.....	28.1	-6.3	75	-24	1.49	-0.26	3.67	0.32					
1891.....	26.8	-7.9	66	-19	2.60	+0.85	4.58	1.33		10	6	8	17
1892.....	31.9	-2.8	84	-6	2.22	-0.47	4.58	0.57	3.9	6	11	8	12
1893.....	31.8	-2.9	84	-8	2.14	-0.39	4.40	0.64	4.0	8	9	11	11
1894.....	41.0	+6.3	84	-5	2.03	+0.28	4.52	0.26	2.7	6	13	10	8
1895.....	34.4	-0.3	94	-11	0.83	-0.92	2.60	0.22	2.9	4	16	8	7
1896.....	30.9	-3.8	81	-12	1.10	-0.65	3.99	0.16	5.4	5	12	9	10
1897.....	32.0	-2.7	72	-22	2.39	+0.64	6.16	0.29	5.5	8	9	8	14
1898.....	37.5	+2.8	72	-2	1.94	+0.19	6.21	0.33	3.7	6	12	9	10
1899.....	23.0	-11.7	75	-16	1.62	-0.13	5.90	0.37	8.0	6	7	12	12
1900.....	30.7	-4.0	81	-13	2.06	+0.31	5.15	0.45	6.6	5	12	9	10
1901.....	34.2	-0.5	76	-8	2.64	+0.89	5.25	0.70	12.6	7	10	8	13
1902.....	39.1	+4.4	79	-12	1.45	-0.30	4.33	0.13	1.3	7	9	11	11
1903.....	38.8	+4.1	82	6	1.38	-0.37	3.90	0.15	3.9	7	11	7	13
1904.....	34.8	-0.1	78	3	2.18	+0.43	4.57	0.50	4.4	7	8	8	15
1905.....	41.5	+6.8	84	1	2.04	+0.29	3.70	0.89	4.1	7	8	8	15
1906.....	27.1	-7.6	65	-14	2.34	+0.59	4.55	0.58	8.9	10	8	7	16
1907.....	40.6	+5.9	92	-7	1.35	-0.40	5.05	0.23	4.1	6	14	7	10
1908.....	37.9	+3.2	85	-8	1.58	-0.17	3.74	0.45	1.1	6	13	7	11
1909.....	32.5	-2.2	71	-15	1.53	-0.22	5.00	0.28	9.8	6	12	10	9
1910.....	48.9	+14.2	92	-10	0.17	-1.58	1.37	0.00	T.	1	23	6	2
1911.....	39.4	+4.7	83	2	0.93	-0.82	4.81	T.	1.9	5	16	9	6
1912.....	24.9	-9.8	70	-19	2.01	+0.26	5.25	0.60	19.1	7	15	6	10
1913.....	31.9	-2.8	78	-23	2.48	+0.73	5.88	0.74	5.3	9	11	10	10
1914.....	34.7	0.0	78	-5	1.69	-0.06	3.84	0.28	1.8	7	12	8	11
1915.....	29.3	-5.4	61	-5	0.96	-0.79	2.12	0.17	8.8	5	8	9	14
1916.....	35.2	+0.5	80	-18	1.57	-0.18	5.80	0.23	2.9	6	11	9	11
1917.....	34.6	-0.1	85	-12	1.84	+0.09	4.35	0.57	6.2	6	14	8	9
1918.....	42.9	+8.2	85	0	0.63	-1.12	2.12	0.03	2.6	3	19	7	5
1919.....	37.5	+2.8	78	-11	2.33	+0.58	5.40	0.81	1.1	6	15	8	8
1920.....	38.0	+3.3	80	-21	3.02	+1.27	5.70	0.47	2.4	7	15	7	9
1921.....	42.8	+8.1	86	4	1.57	-0.18	6.62	0.17	0.2	7	14	8	9
1922.....	38.3	+3.6	74	-5	1.97	+0.22	3.73	0.76	3.4	7	12	6	13
1923.....	29.4	-5.3	78	-22	2.87	+1.12	5.08	0.71	18.5	7	13	9	9
1924.....	31.9	-2.8	72	3	2.65	+0.90	4.76	1.26	10.5	8	8	8	15
1925.....	40.1	+5.4	82	-6	0.93	-0.82	2.34	0.10	2.9	4	17	9	5
1926.....	32.1	-2.6	78	-4	1.06	-0.69	2.62	0.20	8.1	6	12	9	10

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for March, 1926—Continued

Main climatological data table with columns for Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of Days (Precipitation, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, and Observers.

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means. Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Table with columns for Stations, Barometric Pressure (Mean, Highest, Date, Lowest), Relative Humidity (Mean, 7 a. m., 12 Noon, 7 p. m., Lowest), Wind (Total movement, Average hourly velocity, Miles, From, Date), Sunshine (% possible, Departure from normal).

§Sioux City. *Des Moines. †Local mean time. ‡And other dates.

TEMPERATURE

The mean temperature for the State, as shown by the records of 102 stations, was 32.1°, or 2.6° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 29.8°, or 2.3° lower than the normal; Central, 32.0°, or 3.1° lower than the normal; Southern, 34.5°, or 2.3° lower than the normal. The highest monthly mean was 38.2°, at Clarinda, and the lowest was 25.8°, at Postville. The highest temperature reported was 78°, at Little Sioux on the 23d, and the lowest was -4°, at Decorah, Osage and Postville on the 13th. The temperature range for the State was 82°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 109 stations, was 1.06 inches, or 0.69 inch less than the normal. By divisions, the averages were as follows: Northern, 0.72 inch, or 0.84 inch less than the

(Continued on Page 21)

Daily Precipitation for March, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals	
		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		
Southern Division																																		
Afton	Grand					.19			.25	.28		.06											.06	.28										
Albia	Des Moines	T.		T.		.02	T.	.01	.50	T.	.13	T.	.08	.05							T.				T.	T.	T.	.08	.59	.39		1.85		
Atlantic	Nishnabotna				T.	.04	.05		.16	.05	.20	.20														T.			.70	.20	.10		2.06	
Bonaparte (near)	Des Moines	T.		.10		.22	T.		.36	.07	.02												.08		T.		T.		.27	.13		1.25		
Burlington	Mississippi	T.		.01	T.	.26	.06		.36	.06	.07												.45			T.	T.	T.	.07	.73	.28		2.54	
Centerville	Chariton	T.		T.		.17	T.	.02	.33	.01	.02		.03	.01									T.			T.	T.		.03	.40	.22		1.24	
Chariton (near)	Chariton	T.				.11			.56		T.		.08	.08												T.			.22	.31			1.36	
Clarinda	Nodaway					.20			.22																			.14	.30			0.86		
Columbus Jct.	Iowa	T.		.04	T.	.20	.02		.15	.01	.03		.12											T.				.20	.20	.48		1.47		
Corning	Nodaway					T.			.45																		T.			.20				0.65
Corydon	Chariton					.04			.12		T.		T.																			.90		1.06
Creston	Missouri					.10	T.		.15				.04		.01														.08	.16			0.54	
Cumberl'd (near)	Nodaway					T.			.04		T.		T.		T.												T.		.32	.02			0.58	
Earlham (near)	Des Moines					.14	T.		.16		.22		.08	.04													T.		.16	.16	.16		1.12	
Fairfield	Skunk	T.		.17		.11	T.		.15		.08		T.		T.									.02			T.		.50	.40			1.93	
Glenwood	Missouri					.30			.20		T.		T.																.50				1.00	
Indianola	Des Moines	.02				.11	.05		.22		T.		T.		.05													.11	.25	.15		0.96		
Keokuk**	Mississippi	.04	T.	.14		.19	T.		.51	.05	.03		.09													T.	T.	.01	T.	.81			1.92	
Keosauqua	Des Moines			.10		.30	.02	T.	.30	T.	.15	T.	.15		.15												T.	T.	.01	.50	.15		1.72	
Knoxville	Des Moines	T.			T.	.28	T.		.20	T.	.20	T.	.05	.05												T.	T.	.20	.70			1.68		
Lacona	Des Moines	.01				.48	.10		.46		.12		.10	.10															.40	.60	.10		2.47	
Lamoni	Grand					.18			.31		.08	T.	T.		.45													.11	.45	.12		1.25		
Lenox	Missouri					.15			.17		.03		.04	.03															.10	.25			0.77	
Mount Ayr	Grand					.13			.29		.06	T.	.03	.02															.13	.25	T.		0.91	
Mt. Pleasant	Skunk	T.		.07		.23	T.		.27		.05	T.	.08																.10	.10	.49		1.43	
Oakland	Nishnabotna				.35	T.			.20		T.		T.																	.10				1.25
Oskaloosa	Des Moines	.06		.08		.33	.02	.03	.35	T.	.37		.14	T.														.17	.32	.20		2.12		
Ottumwa	Des Moines	T.		.03		.21	T.	T.	.26	T.	.10		.02	T.															.05	.21	.44		1.32	
Red Oak (near)	Missouri					.10			.40		.04		T.																.02	T.	.03		0.59	
Sigourney	Skunk	.03		.11		.21	T.		.30	T.	.03		.05																.19	.67	.46		2.05	
Stockport	Skunk	.07		.20		.28	T.		.31	T.	.08	T.	.05																	.28	.32		1.74	
Thurman	Missouri					T.	.38	T.	.32		T.		.16																.22	.10			1.18	
Tingley	Platt					.13			.45		.04		T.	.03															.09	.23	.03		1.00	
Washington	Skunk	T.		T.	T.	.28	T.		.18		.08	T.	.08																.22	.58	.18		1.52	
Wescott (near)	Mississippi	.05		.20		.30	.10		.45		.05		.10																.22	.70	.30		2.62	
Winterset	Des Moines					.08			.25		.10																			.20	.40	.20		1.23
Omaha, Neb.***	Missouri					T.	.47	T.		T.	.06	T.	T.	.01	T.														.23	.13	T.		0.90	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
 ***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.
 **Incomplete.
 *Precipitation included in the next following measurement.
 T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 19)

normal; Central, 1.07 inches, or 0.75 inch less than the normal; Southern, 1.38 inches, or 0.50 inch less than the normal. The greatest amount, 2.62 inches, occurred at Wescott, and the least, 0.20 inch, occurred at Harlan. The greatest amount in 24 consecutive hours, 1.36 inches, occurred at Davenport on the 30th-31st.

SNOWFALL

The average snowfall for the State was 8.1 inches, or 2.7 inches more than the normal. The greatest amount, 21.3 inches occurred at Oskaloosa, and the least 1.2 inches occurred at Sioux City. The snowfall was heaviest in southeastern Iowa. Keokuk reported the greatest March snowfall of record, 17.9 inches, and with the exception of February, 1900, when 18.6 inches fell, the greatest for any month. Much of the snow that fell on the 30th-31st, fell with the temperature considerably below freezing, consequently it settled or melted very little, and over many places in the eastern part of the State the amount on the ground at the end of the month was the greatest ever experienced so late in the season.

MISCELLANEOUS PHENOMENA

Aurora: 9th, 10th, 17th, 18th, 19th.
 Birds (migration of): Earlham, blue birds, 9th, meadow

larks and blackbirds, 18th; Little Sioux, meadow larks, 19th; Oskaloosa, robins, 13th, meadow larks, 17th; Postville, robins, 18th.

Dust storms: 24th, 25th, 31st.

Fog: 18th, 19th, 20th, 21st, 22d, 23d, 29th.

Halos (lunar and solar): 2d, 8th, 19th, 20th, 21st, 27th, 29th, 30th, 31st.

Haze: 20th, 21st, 22d, 24th, 25th.

Parhelia: 2d, 8th.

Sleet: 3d, 5th, 6th, 7th, 8th, 10th, 11th, 14th, 24th, 25th, 30th.

Thunderstorms: 11th, 18th, 19th.

Winds (strong): 1st, 2d, 3d, 5th, 6th, 7th, 15th, 16th, 17th, 24th, 25th, 26th, 31st.

RIVERS

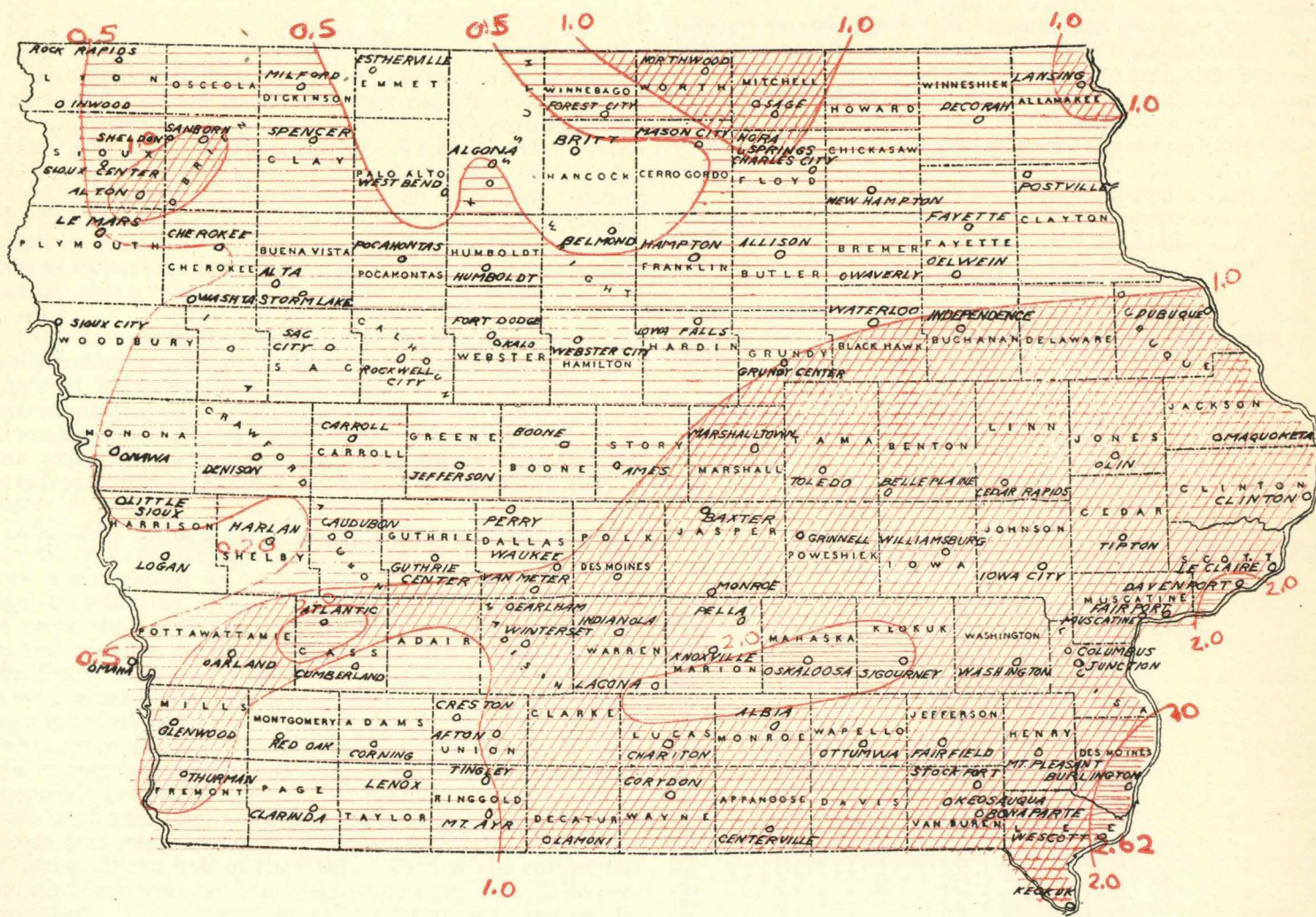
Low and nearly stationary stages prevailed on all rivers generally though there were some sharp fluctuations on the Missouri River, and moderate fluctuations on the other rivers due to ice conditions. A general movement of the ice in the Mississippi River began on the 19th at Dubuque but the channel was not entirely clear till the 24th. All the interior rivers were clear of ice before the end of the third week with very little damage, the principal gorges having moved out during February.

Daily Maximum and Minimum Temperature for the Month of March, 1926

Table with columns for Stations, days 1-31, and Mean. Rows are categorized into Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

TOTAL PRECIPITATION, MARCH, 1926




SCALE OF SHADES IN INCHES

 Less than 0.5

 0.5 to 1.0

 1.0 to 2.0

 More than 2.0

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, APRIL, 1926 No. 4

GENERAL SUMMARY

The principal feature of the weather during April was the extreme dryness that prevailed throughout the State. Every station reported a deficiency in precipitation, and the average for the State, 0.91 inch, shows that this month broke all records for April, the least previous to this year, since State-wide records became available in 1873, being 1.13 inches in 1879. The number of days on which 0.01 inch or more of precipitation occurred was the least of record for April; the greatest monthly amount for any station was also the least of record; and the number of clear days equalled the April record. The average total precipitation in the State since January 1, is 3.82 inches. Only twice in 54 years has there been a less amount in a similar period for the State as a whole, while in the western portion of the State the total for this period is the least of record, several stations reporting a total of less than two inches.

The lack of precipitation showed its effects by unusually low humidity and the development of dust storms at frequent intervals from the 13th to 27th. While the dust storms were confined mainly to the western portion of the State, and in that section are not uncommon, the storm that occurred on the 27th covered practically the entire State and was pronounced the worst in the history of the State. There was considerable drifting of soil in every storm but the earlier storms were more local in character and in a mild form are frequently experienced. The dust was driven by a strong northwest wind on the 27th and during most of the day was sufficient to entirely obscure the sun. A heavy deposit of brown dust, was deposited on all objects and sprinkles of rain in the late afternoon in some localities left a distance deposit of mud where each raindrop struck. In the western portion of the State the soil drifted sufficiently to fill ditches along highways and drifts as deep as two feet impeding automobile travel. Grain and other growing vegetation suffered from having the soil blown away from the roots and some fields were damaged by being covered with drifts.

Temperature conditions were similar to those in March. The deficiency was about the same, being greatest in the eastern portion and gradually diminishing to the west where a small area in the northwest portion showed a slight excess. There were no unusually low temperatures but temperatures below freezing occurred on an unusually large number of days. The longest period on which the temperature was above normal ranges from five days in the western portion to four in the eastern portion, while there were three periods, ranging from five to nine days, on which the temperature was below normal. This condition retarded the development of all vegetation. Fruit bloom was beneficially retarded so that at the end of the month only the earliest fruits were showing bloom in the south central, southwest and west central districts.

The heavy snowfall delayed farm work over the eastern portion of the State and in this section some oats were seeded in mud. Over the rest of the State cond-

tions were favorable for all farm work and fine progress was made but on account of the extreme dryness a rather large amount of oats failed to germinate that will either result in a very poor stand or cause other crops to be planted instead. Corn planting made a good start and some of the earlier planted fields had begun to show rows. The dry weather was seriously injuring meadows and pastures, and over much of the State the prospect for hay was bad. Early truck crops made very poor progress except where irrigation was practicable.

An unusual auroral display occurred during the night of the 14th-15th. The phenomenon was generally observed throughout the State but the brilliancy apparently varied as well as the time of visibility. Telegraph companies experienced difficulty in maintaining service during the time of the most intense display and at times the use of some batteries was dispensed with.

Roads were good throughout the month except in the eastern portion of the State where the heavy March snowfall, followed by the heavy fall at the first of the month caused many roads to be impassable for several days and dirt roads remained in bad condition till near the middle of the month.

F. L. D.

COMPARATIVE DATA FOR THE STATE—APRIL

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873	43.2	- 5.7	83	24	3.13	+ 0.14	5.65	1.24					
1874	41.9	- 7.0	76	16	1.90	- 1.09	3.15	0.65					
1875	43.0	- 5.9	77	10	2.20	- 0.79	4.00	0.89					
1876	48.1	- 0.7	78	24	3.06	+ 0.07	6.80	0.85					
1877	47.5	+ 1.4	91	14	3.33	+ 0.34	8.61	1.10					
1878	52.4	+ 3.5	82	26	3.14	+ 0.15	5.87	1.32					
1879	50.3	+ 1.4	88	12	1.13	- 0.86	3.70	0.00					
1880	47.9	- 1.0	92	15	2.08	- 0.91	5.65	0.35					
1881	42.5	- 6.4	84	10	2.26	- 0.73	5.40	0.45					
1882	48.8	- 0.1	91	20	3.73	+ 0.74	8.08	1.60					
1883	49.9	+ 1.0	90	24	2.25	- 0.74	5.00	0.58					
1884	46.8	- 2.1	86	18	2.54	- 0.45	5.40	0.83					
1885	47.5	- 1.4	80	16	2.94	- 0.05	7.82	0.73					
1886	50.3	+ 1.4	88	4	2.70	- 0.29	6.90	0.70					
1887	51.1	+ 2.2	94	9	1.38	- 1.61	2.65	0.10					
1888	48.8	- 0.1	90	20	2.65	- 0.34	7.80	0.40					
1889	50.3	+ 1.4	86	10	2.35	- 0.64	6.03	0.25					
1890	51.2	+ 2.3	88	2	1.73	- 0.26	5.15	0.25					
1891	50.6	+ 1.7	93	13	2.15	- 0.84	5.06	0.59		8	14	7	9
1892	45.4	- 3.5	88	14	4.75	+ 1.76	8.38	2.43	5.7	9	8	9	13
1893	45.5	- 3.4	96	15	4.21	+ 1.22	8.51	1.24	6.0	10	8	9	13
1894	51.7	+ 2.8	93	12	3.07	- 0.08	6.91	0.55	0.2	9	11	11	8
1895	54.2	+ 5.3	98	8	2.62	- 0.37	5.88	0.28	2.1	5	14	8	8
1896	54.5	+ 5.6	94	10	5.02	+ 2.03	9.67	2.35	4.5	11	11	10	9
1897	47.9	- 1.0	89	19	5.35	+ 2.36	9.86	2.22	T.	11	9	9	12
1898	48.1	- 0.8	91	14	2.56	- 0.43	4.82	0.27	T.	8	13	9	8
1899	48.9	- 0.0	89	1	2.40	- 0.59	5.76	0.56	2.0	7	12	11	7
1900	52.2	+ 3.3	89	19	2.67	- 0.32	6.62	0.43	0.9	6	12	9	9
1901	49.9	+ 1.0	92	15	1.79	- 1.20	3.47	0.66	2.0	5	14	8	8
1902	48.2	- 0.7	96	9	1.71	- 1.28	4.15	0.40	T.	5	14	11	5
1903	49.8	+ 0.9	86	17	2.98	- 0.01	6.00	0.74	0.8	9	11	9	10
1904	44.1	- 4.8	86	13	3.63	- 0.64	8.97	1.52	1.4	7	15	6	9
1905	47.5	- 1.4	90	10	3.03	+ 0.04	5.49	0.63	1.2	8	12	8	10
1906	52.5	+ 3.6	94	22	2.42	- 0.57	5.55	0.53	0.6	8	14	9	7
1907	41.5	- 7.4	80	10	1.32	- 1.67	3.22	0.24	2.7	6	12	8	10
1908	50.5	+ 1.6	91	8	2.24	- 1.75	4.59	0.67	0.3	8	14	8	8
1909	43.8	- 5.1	86	14	4.58	+ 1.59	9.43	0.83	3.1	12	9	9	12
1910	52.5	+ 3.6	99	15	1.48	- 1.51	4.86	1.10	3.0	7	14	7	9
1911	46.7	- 2.2	86	3	3.09	+ 1.10	6.04	1.33	3.6	9	11	8	11
1912	49.9	+ 1.0	84	20	2.66	- 0.33	5.66	0.78	1.1	8	13	8	9
1913	50.2	+ 1.3	88	16	3.28	+ 0.29	7.43	1.12	2.7	9	15	5	10
1914	48.6	- 0.3	88	11	2.52	- 0.47	5.03	0.37	0.3	8	10	8	12
1915	57.2	+ 8.3	95	18	1.41	- 1.58	4.02	0.05	T.	7	15	10	5
1916	47.1	- 1.8	90	11	2.62	- 0.37	5.92	1.13	1.1	10	10	9	11
1917	45.5	- 3.4	88	17	4.55	+ 1.56	7.84	2.05	3.8	11	9	7	14
1918	44.8	- 4.1	79	12	2.32	- 0.67	4.20	1.01	3.5	9	12	8	10
1919	48.4	- 0.5	81	20	4.78	+ 1.79	9.00	1.94	0.7	14	8	8	14
1920	42.4	- 6.5	78	22	4.59	+ 1.60	7.13	1.93	2.0	12	8	9	13
1921	52.4	+ 3.5	88	14	3.34	- 0.35	6.69	0.99	3.6	10	13	7	10
1922	49.9	+ 1.0	87	21	3.06	- 0.07	6.70	1.04	1.0	9	11	9	10
1923	48.4	- 0.5	85	11	2.09	- 0.90	4.26	0.47	0.8	8	15	7	8
1924	50.5	+ 1.6	90	- 8	1.38	- 1.61	4.53	0.38	1.4	7	16	8	6
1925	56.5	+ 7.6	95	21	2.20	- 0.79	5.34	0.71	T.	8	14	9	7
1926	46.1	- 2.8	95	9	0.91	- 2.08	2.29	0.06	1.5	4	16	7	7

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for April, 1926—Continued

Main climatological data table with columns for Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of Days (Precipitation, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, and Observers.

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means. Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Table with columns for Stations, Barometric Pressure (Mean, Highest, Date, Lowest, Date), Relative Humidity (Mean, 7 a. m., 12 Noon, 7 p. m., Lowest, Date), Wind (Total movement, Average hourly velocity, Maximum, Miles, From, Date), Sunshine (% possible, Departure from normal).

§Dubuque *Davenport ¶Sioux City †Local mean time. ‡And other dates.

TEMPERATURE

The mean temperature for the State, as shown by the records of 101 stations was 46.1°, or 2.8° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 45.0°, or 2.1° lower than the normal; Central, 46.4°, or 2.8° lower than the normal; Southern, 46.8°, or 3.7° lower than the normal.

PRECIPITATION

The average precipitation for the State, as shown by the records of 107 stations, was 0.91 inch, or 2.08 inches less than the normal. By divisions, the means were as follows: Northern, 0.94 inch, or 1.83 inches less than the

(Continued on Page 29)

Daily Precipitation for April, 1926—Continued

Stations	Drainage Basin	Day of Month																														Totals				
		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			
Southern Division																																				
Afton	Grand	.07				.03	.08					.03												.48												0.60
Albia	Des Moines	T.	.29				.01	.04															T.	.45	.02										0.81	
Atlantic	Nishnabotna				.10	T.	.03								.02												.01								0.50	
Bonaparte (near)	Des Moines	.40	.02				.12											T.					.53	.30	.03			T.							1.40	
Burlington	Mississippi	.12	.45				.05	.21															.25	.63	.17	.04		T.	T.						1.92	
Centerville	Chariton	.40	T.			.03	.01	.01																	.32										0.77	
Chariton (near)	Chariton	T.																						.42	T.										0.42	
Clarinda	Nodaway	.03									.02														.32										0.40	
Columbus Jct.	Iowa	.25	.03				.16	.09										T.					T.	.01	.32	.26									1.12	
Corning (near)	Nodaway					T.	T.												T.				T.	.27	.33	T.									0.60	
Corydon	Chariton	.60				T.	.02																	.34	T.										0.96	
Creston	Missouri	.03					.03	.03			.05													.35		.15										0.64
Cumberl'd (near)	Nodaway					.05	T.			T.									T.				T.	.33	T.	T.									0.38	
Earlham (near)	Des Moines	T.				T.	T.								T.									.37	.02										0.39	
Fairfield	Skunk	.35				T.	.04	.02																.10	.50	.08									1.09	
Glenwood	Missouri					T.	.02								T.									.30											0.32	
Indianola	Des Moines	T.				T.	.04																T.	.28	.03	T.									0.35	
Keokuk***	Mississippi	.02	.74	T.		.05	.15	T.															T.	.55	.27	T.			T.						1.85	
Keosauqua	Des Moines	.40					.06												.07					.49	.45	.02									1.42	
Knoxville	Des Moines	.10	T.			.05	.15																T.	.75	.05	T.		T.							1.10	
Lacona	Des Moines	.10	.02		.10	.20	.02		.01															.42	.03	.02									0.92	
Lamoni	Grand	.26	.17				.01																	.19	T.										0.63	
Lenox	Missouri	.04	T.		.02	.03			.03														T.	.15	.35	T.	.06								0.68	
Mount Ayr	Grand	.22	.01			T.																	T.	.40	T.	.01			T.						0.65	
Mt. Pleasant	Skunk	.33	.02				.33	.03																.26	.35	.17									1.49	
Oakland	Nishnabotna					T.	T.			.25														.40											0.65	
Oskaloosa	Des Moines	.15	T.	T.		.01	.09	.05															T.	.04	.41	.09									0.87	
Ottumwa	Des Moines	.21				T.	.04	T.																.03	.58	.09									0.95	
Red Oak (near)	Missouri									T.														.50											0.50	
Riverton (near)	Nishnabotna	T.				T.	.01																	.30											0.31	
Sigourney (near)	Skunk	.14				T.	.16	.14										T.					.04	.64	.07				T.					1.19		
Stockport	Skunk	.60					.20																	.32	.31	T.									1.43	
Thurman	Missouri					T.	T.								T.										.28			T.							0.28	
Tingley	Platt	.07	.04		.03	.04				T.														T.	.36										0.54	
Washington	Skunk	.30				T.	.62																	T.	.40	.18			T.						1.50	
Wescott (near)	Mississippi	.60				T.	.05																	.85	.30	T.									1.80	
Winterset	Des Moines						.08	.06																	.25										0.39	
Omaha, Neb.***	Missouri					.01	T.		.08	.06				T.	T.									.26	T.	T.	T.								0.41	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.
 |||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours, except the amount entered on April 1 at Decorah is for 12 hours ending 7:00 A. M., April 1.
 ***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.
 **Incomplete.
 *Precipitation included in the next following measurement.
 T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 27)

normal; Central, 0.93 inch, or 2.10 inches less than the normal; Southern, 0.86 inch, or 2.32 inches less than the normal. The greatest amount, 2.29 inches occurred at Clinton, and the least, 0.06 inch, occurred at Harlan. The greatest amount in any 24 consecutive hours, 1.38 inches, occurred at Dubuque on the 23rd-24th.

SNOWFALL

The average snowfall for the State was 1.5 inches, or 0.4 inch less than the normal. The snowfall was the heaviest in the northeast and southeast corners and over most of the State the average was less than 0.5 inch. The heaviest fall reported was 11.5 inches at Decorah. About one-half of the State had a trace or none.

MISCELLANEOUS PHENOMENA

Aurora: 11th, 14th, 15th, 16th, 17th.
 Dust Storms: 13th, 17th, 20th, 21st, 22d, 24th, 26th, 27th.
 Fog: 6th, 22d, 23d.

Hail: 23d.

Halos (lunar and solar): 1st, 2d, 8th, 11th, 17th, 20th, 22d, 23d, 24th, 26th, 28th.

Haze: 6th, 20th.

Parhelio: 26th.

Rainbow: 25th.

Sleet: 4th, 5th, 6th, 17th.

Thunderstorms: 17th, 23d, 24th, 25th.

RIVERS

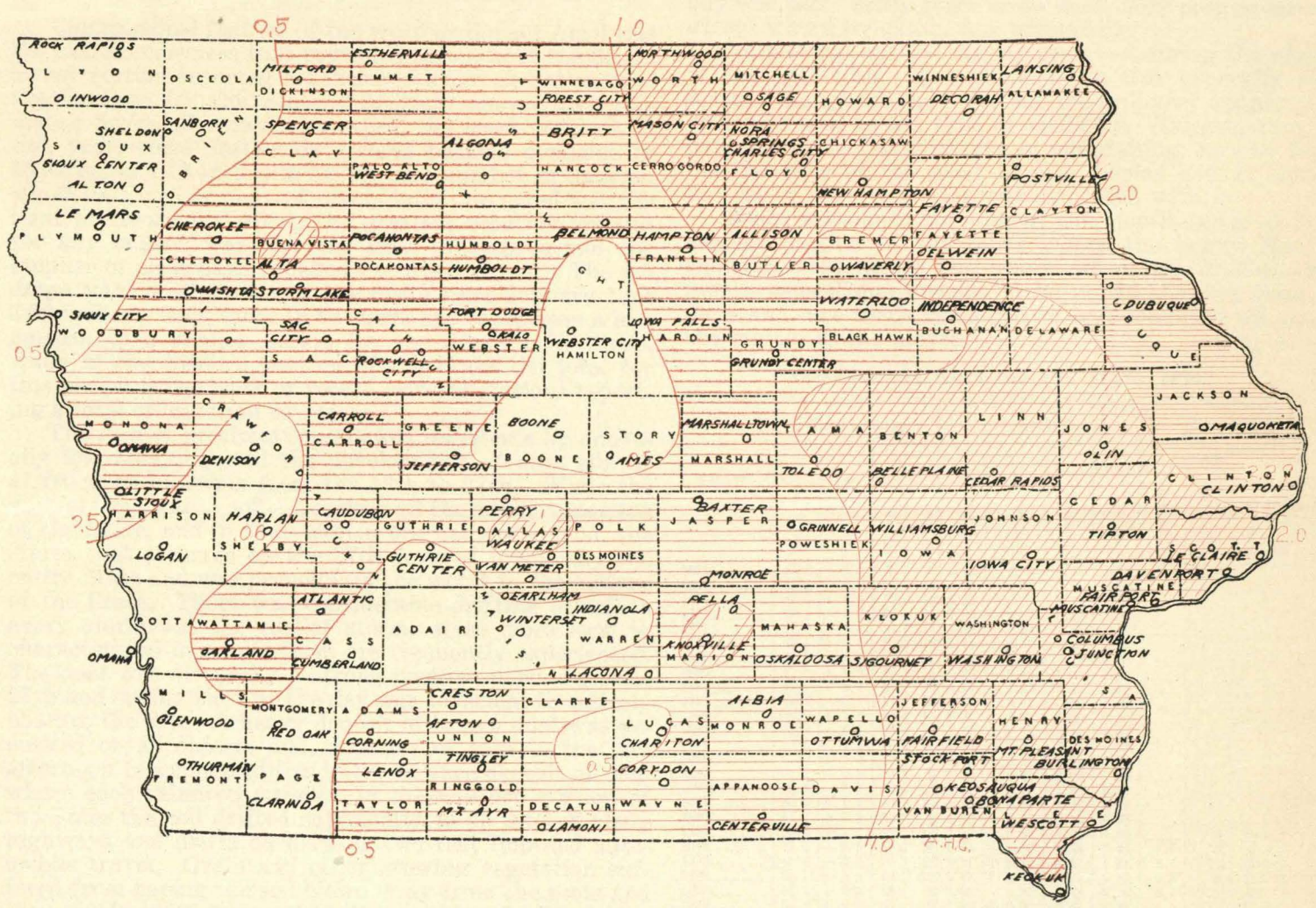
Moderate stages prevailed on the Mississippi River with very little fluctuation with the average somewhat below the April normal. The extreme stages did not exceed two feet except at Dubuque. Low stages prevailed on the Missouri River with only slight fluctuations, the extreme fluctuation for the month being 1.6 feet. Low stages also prevailed on the interior rivers, except melting snow at the beginning of the month caused moderate rises in the lower courses of all streams emptying into the Mississippi. During the rest of the month nearly stationary stages prevailed.

Daily Maximum and Minimum Temperature for the Month of April, 1926

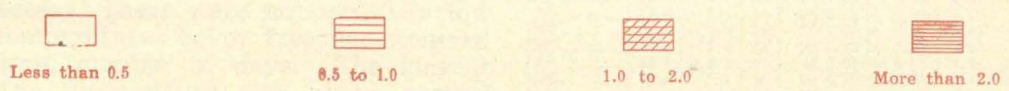
Table with columns for Stations, days 1-31, and Mean. Rows are categorized by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

TOTAL PRECIPITATION, APRIL, 1926



SCALE OF SHADES IN INCHES



CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, MAY, 1926 No. 5

GENERAL SUMMARY

There was a marked excess in temperature during May, the average excess for the State being 4.3° and as was the case in the two preceding months, the western portion of the State was the warmest. There were numerous fluctuations in temperature, being most frequent over the eastern portion of the State, where the longest period above normal was six days, while in the western portion there was a period of six days above normal during the first and second weeks and another nine days at the end of the month. The temperature was below normal for only short periods. The date of the last frost was the 22d but the damage was not severe. A rather hard freeze occurred on the 3d but crops had not developed to a point where there could be much damage and truck crops were generally protected. The frosts that occurred on the 14th and 15th damaged tender vegetation considerably and strawberries were damaged somewhat. The greatest damage to truck crops was due to cut worms. Cabbage and tomato plants were destroyed in great numbers and replanting was necessary to such an extent that surplus stock was exhausted and the destruction was continuing at the end of the month.

There were no destructive storms but there was minor damage from straight winds, lightning and hail in small areas in all portions of the State. Lightning killed a number of cattle and horses, the total damage from hail amounted to a few thousand dollars and wind destroyed property valued at less than \$20,000. While the precipitation averaged more than twice that of May, 1925, the total for the two preceding months was more than an inch less than the same period last year, and at the end of the month there was a rather severe drouth over a large portion of the State, the only large area where this was not true was in the north-central portion. The drouth was aggravated by the prevalence of strong winds on a large number of days and an average relative humidity 10 per cent below the normal. This condition caused the soil to become dry and dusty and in sections to drift badly. Dust storms again developed and in some areas in the western and central portions the dust was sufficiently dense to obscure the sun. Crops suffered both from being covered with dust and having the soil blown from the roots. There was considerable damage to corn from cut worms and much replanting was necessary. However, the general condition of the corn crop was better than the adverse weather conditions would indicate. Pastures and meadows suffered most from the dry weather. In some of the drier sections pastures were brown and bare and hay was making very poor progress.

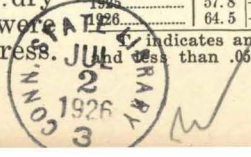
Small streams were unusually low and some wells were beginning to fail. Farm work made good progress though there were still some corn fields unplanted and some replanting was unfinished at the end of the month. Some early planted corn was being cultivated the second time and fields were generally free from weeds. The prospect for tree fruit was unusually good but the hot weather during the last week reduced the probable yield of strawberries; and raspberries were not very promising on account of being winter killed. Winter wheat was heading short in some of the drier localities and spring wheat and oats were showing a few yellow spots.

F. L. D.

COMPARATIVE DATA FOR THE STATE—MAY

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873	56.5	- 3.7	86	38	5.90	+ 1.38	9.10	3.42					
1874	64.1	+ 3.9	94	41	1.88	+ 2.73	4.49	0.50					
1875	60.5	+ 0.3	91	26	2.94	+ 1.67	6.70	1.63					
1876	61.1	+ 0.9	90	32	2.84	+ 1.77	7.38	1.09					
1877	60.3	+ 0.1	92	29	4.30	+ 0.31	11.00	1.60					
1878	55.7	- 4.5	88	32	5.01	+ 0.40	11.95	2.14					
1879	62.9	+ 2.7	93	26	4.38	+ 0.23	8.70	1.40					
1880	66.3	+ 6.1	96	37	4.06	+ 0.55	8.45	1.47					
1881	66.7	+ 6.5	95	35	3.73	+ 0.88	9.30	0.40					
1882	54.3	- 5.9	83	24	5.42	+ 0.81	12.55	1.50					
1883	54.6	- 5.6	90	31	6.25	+ 1.64	11.68	1.30					
1884	59.6	+ 0.6	88	33	3.15	+ 1.46	6.36	1.00					
1885	57.4	- 2.8	86	27	3.44	+ 1.17	9.33	1.05					
1886	62.5	+ 2.3	96	30	3.38	+ 1.23	7.63	1.30					
1887	64.6	+ 4.4	96	34	1.55	+ 3.06	5.84	0					
1888	53.8	- 6.4	88	22	6.58	+ 1.97	10.85	2.00					
1889	59.2	- 1.0	92	22	4.06	+ 0.55	8.54	1.40					
1890	56.5	- 3.7	96	26	3.64	+ 0.97	6.44	1.60					
1891	58.3	- 1.9	94	21	3.18	+ 1.43	7.10	1.46					
1892	54.0	- 6.2	88	29	8.77	+ 4.16	12.64	4.87	T.	16	5	9	17
1893	56.6	- 3.6	96	26	3.45	+ 1.16	5.82	1.65	0	9	13	9	9
1894	61.1	+ 0.9	96	22	1.87	+ 2.74	4.77	0.33	0	6	17	10	4
1895	61.7	+ 1.5	104	24	3.19	+ 1.42	5.79	0.84	0	9	11	12	8
1896	65.5	+ 5.3	100	34	6.69	+ 2.08	11.79	3.40	0	12	11	12	8
1897	58.5	- 1.7	96	20	1.92	+ 2.69	3.59	0.21	0	5	16	10	5
1898	59.6	- 0.6	92	26	4.67	+ 0.06	7.82	2.22	0	12	9	10	12
1899	60.2	+ 0.0	90	27	6.23	+ 1.62	11.47	3.09	0	13	9	12	10
1900	63.2	+ 3.0	98	22	3.31	+ 1.30	6.98	0.96	0	8	14	10	7
1901	60.7	+ 0.5	95	28	2.35	+ 2.26	4.57	0.72	0	7	16	9	6
1902	63.8	+ 3.6	97	25	5.39	+ 0.78	18.04	0.87	0	13	10	12	9
1903	61.6	+ 1.4	91	24	8.55	+ 3.94	15.45	2.88	0	16	9	12	10
1904	59.6	- 0.6	93	27	3.78	+ 0.83	8.15	1.50	0	8	13	10	8
1905	58.2	- 1.9	88	28	5.95	+ 1.34	10.83	2.57	0	14	12	11	8
1906	60.8	+ 0.6	95	24	3.54	+ 1.07	10.72	0.89	0	11	13	10	8
1907	53.5	- 6.7	96	14	3.48	+ 1.13	7.68	0.71	1.0	10	11	10	10
1908	59.4	- 0.8	93	13	8.34	+ 3.73	14.33	1.33	0	15	9	11	11
1909	57.9	- 2.3	87	18	4.34	+ 0.27	7.85	1.86	0.1	9	12	12	7
1910	55.4	- 4.8	89	18	3.41	+ 1.20	6.91	1.29	T.	10	15	7	9
1911	64.9	+ 4.7	98	23	3.76	+ 0.85	8.73	0.42	0.7	9	16	9	6
1912	62.7	+ 2.5	97	29	3.53	+ 1.27	6.41	0.72	0	10	14	11	6
1913	59.4	- 0.8	102	30	6.24	+ 1.63	10.25	3.14	0	13	11	8	12
1914	62.2	+ 2.0	98	25	3.31	+ 1.30	6.90	0.30	T.	10	14	11	6
1915	56.1	- 4.1	99	25	7.34	+ 2.73	13.21	3.82	T.	14	9	9	13
1916	59.9	- 0.3	94	27	4.93	+ 0.32	10.44	2.14	T.	12	13	10	8
1917	55.1	- 5.1	95	18	3.87	+ 0.74	7.33	1.69	0.6	10	15	8	8
1918	61.9	+ 4.7	98	25	6.87	+ 2.26	11.98	2.72	T.	13	13	11	7
1919	58.2	- 2.0	93	30	3.11	+ 1.50	7.14	0.73	0	9	13	11	7
1920	59.4	- 0.8	89	29	3.26	+ 1.35	5.73	0.62	0	8	14	9	8
1921	63.3	+ 3.1	99	25	4.23	+ 0.38	9.41	1.32	0	10	14	10	7
1922	63.4	+ 3.2	91	34	3.53	+ 1.08	8.36	0.47	0	12	13	10	8
1923	59.6	- 0.6	90	20	2.84	+ 1.77	6.55	1.07	T.	10	14	10	7
1924	54.1	- 3.1	94	26	1.71	+ 2.90	3.28	0.78	0.1	9	13	9	9
1925	57.8	- 2.4	102	20	1.16	+ 3.45	2.62	0.30	T.	6	19	8	4
1926	64.5	+ 4.3	97	25	2.76	+ 1.85	6.83	0.52	0	9	15	11	5

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for May, 1926—Continued

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit							Precipitation, in inches				Number of Days			OBSERVERS		
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy		Cloudy	Prevailing direction of wind
<i>Southern Division</i>																				
Afton	Union	1,212	32	66.5a	+ 5.1	97a	26	38a	3	37a	3.46	- 1.31	1.65	11			sw.	S. R. Brown		
Albia	Monroe	959	28	65.8	+ 4.5	94	26	38	3	40	1.87	- 3.12	0.85	7	12	10	9	sw.	O. E. McBride	
Atlantic	Cass	1,164	35	66.6	+ 5.9	96	26	33	14	39	1.89	- 2.34	0.44	11	8	11	12	sw.	T. H. Whitney	
Bonaparte (near)	Van Buren	563	35	65.0	+ 3.7	93	26	37	15	40	1.92	- 2.71	0.81	6	21	7	3	sw.	B. R. Vale	
Burlington	Des Moines	544	30	66.4	+ 3.5	96	26	38	15	41	2.79	- 1.74	1.08	8	20	6	5	sw.	John W. Donnelly	
Centerville	Appanoose	1,013	21	64.8	+ 3.4	93	26	31	2	38	2.32	- 2.27	1.35	6	19	6	6	sw.	Thomas Wood	
Chariton (near)	Lucas	1,042	31	64.1	+ 4.0	94	26	37	3†	46	3.23	- 1.29	1.25	5	22	7	2	sw.	C. C. Burr	
Clarinda	Page	1,009	36	66.0	+ 3.1	94	26	35	14	42	3.00	- 1.95	1.43	12	17	11	3	sw.	Dr. H. C. Hawley	
Columbus Jet	Louisa	595	25	64.9	+ 2.7	92	24†	38	15	39	2.93	- 1.38	1.13	12	13	16	2	sw.	Miss Musa Todd	
Corning (near)	Adams	1,117	34	65.0	+ 4.5	95	27	34	14	42	2.93	- 2.11	1.25	5	21	7	3	sw.	Jerome Smith	
Corydon	Wayne	1,101	33	65.1	+ 3.8	91	24†	38	15	41	2.97	- 1.70	1.16	8	18	11	2	sw.	A. T. Gallagher	
Creston	Union	1,312	21	65.0	+ 4.3	94	26	36	14†	40	3.23	- 1.31	1.43	11	16	9	6	sw.	C. C. Burr	
Cumberland (near)	Cass	1,225	27								2.65	- 1.53	0.60	8	15	7	9	sw.	Carl E. Pollock	
Earlham (near)	Madison	1,126	24	65.0	+ 4.8	92	24†	29	15	42	2.13	- 2.31	0.54	8	20	7	4	sw.	George Phillips	
Fairfield	Jefferson	780	42	64.6	+ 3.5	96	26	34	15	43	1.67	- 3.77	0.61	8	14	8	9	sw.	Prof. R. M. McKenzie	
Glenwood	Mills	1,100	28	67.0	+ 5.7	94	26	34	14	36	3.13	- 1.48	0.88	11	13	15	3	sw.	Dr. George Mogridge	
Indianola†	Warren	972	35	65.4	+ 3.9	91	24†	37	15	42	2.47	- 1.98	1.14	6	16	13	3	sw.	Seth F. Shenton	
Keokuk	Lee	614	55	65.8	+ 2.0	93	29	42	15	33	3.14	- 1.05	1.06	10	9	13	9	sw.	U. S. Weather Bureau	
Keosauqua	Van Buren	644	34	63.8	+ 2.5	95	26	31	15	46	1.76	- 3.12	0.86	4	15	10	6	sw.	J. H. Landes	
Knoxville	Marion	920	31	65.2	+ 3.7	92	24	36	15	42	2.58	- 1.67	1.18	7	16	9	6	sw.	W. J. Casey	
Lacona	Warren	824	27								2.78	- 2.05	1.60	13	9	15	7	sw.	J. B. Alter	
Lamoni	Creighton	1,123	19	64.6	+ 3.4	93	26	39	3†	38	3.99	- 0.96	1.23	10	16	9	6	sw.	F. S. Parks	
Lenox	Taylor	1,250	31	65.9	+ 4.0	94	24†	33	14	39	3.04	- 1.64	1.25	11	17	12	2	sw.	J. L. Hurley	
Mount Ayr	Ringgold	1,245	33	65.5	+ 4.2	93	26	38	22	39	2.51	- 2.96	0.65	10	17	8	6	sw.	Alex Maxwell	
Mt. Pleasant	Henry	729	45	65.8	+ 3.3	95	24†	37	15	41	1.12	- 3.50	0.43	7	13	14	4	sw.	J. H. Jericho	
Oakland	Pottawattamie	1,105	7	64.4a	+ 3.2	95a	26	31a	14	38a	2.40		0.65	8	22	2	7	sw.	M. E. Gray	
Oskaloosa	Makaska	835	50	64.9	+ 3.7	94	24†	37	3†	43	2.05	- 2.20	0.73	10	12	12	7	sw.	Roy R. Robinson	
Ottumwa	Wapello	649	31								2.37	- 2.28	1.16	8	18	7	6	sw.	C. L. Mikesell	
Red Oak (near)	Montgomery	1,030	1								4.79		2.00	7	15	13	3	sw.	B. R. Bridge	
Riverton (near)	Fremont	920		66.7		98	26	34	14†	43	4.09		1.91	9	16	6	9	sw.	George C. Rader	
Sigourney (near)	Keokuk	790	30	64.9	+ 4.1	96	26	36	15	44	2.08	- 2.19	0.74	4	20	6	5	sw.	W. E. Utterback	
Stockport	Van Buren	747	24	64.3	+ 3.8	95	26	33	14†	48	1.81	- 2.85	0.72	9	20	8	3	sw.	C. L. Beswick	
Thurman	Fremont	975	29	67.6	+ 5.1	95	26	35	14†	50	5.24	+ 0.29	1.44	11	7	21	3	sw.	C. R. Paul	
Tingley	Ringgold	1,275	1	66.0		95	26	39	3†	37	3.49		1.21	10	15	10	6	sw.	James A. Verploegh	
Washington	Washington	769	44	66.0	+ 4.5	95	26	37	3†	49	1.59	- 2.57	0.72	7	19	7	5	sw.	D. D. Sherman	
Wescott (near)	Lee	523	4	65.0		96	26	35	20	43	1.75		0.60	6	20	9	2	sw.	Lester J. Larson	
Winterset	Madison	1,129	35	66.2	+ 4.6	94	24†	36	3†	39	2.18	- 2.34	0.58	11	19	9	3	sw.	H. S. Ely	
Omaha, Neb.		1,103	55	67.0	+ 4.6	95	24	40	14	33	1.87	- 2.63	0.46	14	12	13	6	sw.	U. S. Weather Bureau	
Means and extremes				65.6	+ 4.1	97	1†	29	15	50	2.69	- 1.93	2.00	9	16	10	5	sw.		
State means and extremes				64.5	+ 4.3	97	1†	25	3	51	2.76	- 1.85	2.63	9	15	11	5	sw.		

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.

†Also other dates.

‡Received too late to be included in means and summaries.

T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level)					Relative Humidity, %				Wind				Sunshine			
	Mean	Highest	Date	Lowest	Date	Mean		Lowest	Date	Total movement	Average hourly velocity	Maximum			% possible departure from normal		
						7 a. m.	12 Noon†					Miles	Date				
Charles City	29.90	30.31	3	29.41	20	69	45	50	19	15	5,958	8.0	30	sw.	20	72	+11
Davenport	29.90	30.26	4	29.54	21	71	45	48	23	6	5,943	8.0	25	ne.	26	62	-2
Des Moines	29.87	30.30	3	29.51	9	68	44	44	15	15	6,895	9.3	32	sw.	2	72	+1
Dubuque	29.88	30.22	3	29.46	21	68	47	50	20	6	5,268	7.1	21	n.	2	65	+7
Keokuk	29.91	30.27	3	29.52	9	66	45	53	20	6	6,109	8.2	48	s.	29	74	+9
Sioux City	29.86	30.33	3	29.39	20	72	44	43	18	14†	10,281	13.8	54	s.	28	63	+6
Omaha, Neb.	29.86	30.27	3	29.50	20	67	45	44	18	15	6,356	8.5	32	ne.	18	70	+9
Means and extremes	29.88					69	45	47				9.0				68	+7
Normals and records	29.95		4th		7th	77		59		3d		8.7			1st	61	
		*30.58	1910	‡29.02	1875						‡10	1889					

*Dubuque. †Omaha. ‡Sioux City. †Local mean time. †And other dates.

TEMPERATURE

The mean temperature for the State, as shown by the records of 103 Stations, was 64.5°, or 4.3° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 63.3°, or 4.7° higher than the normal; Central, 64.7° or 4.3° higher than the normal; Southern, 65.6°, or 4.1° higher than the normal. The highest monthly mean was 67.6°, at Thurman, and the lowest was 60.0° at Postville. The highest temperature reported was 97° at Fort Dodge on the 24th, and at Afton, Audubon, Carroll and Little Sioux on the 26th, and the lowest was 25°, at Milford, on the 3d. The temperature range for the State was 72°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 111 stations, was 2.76 inches, or 1.85 inches less than the normal. By divisions, the averages were

Daily Precipitation for May, 1926

Stations	Drainage Basin	Day of Month																															Totals
		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	
<i>Northern Division</i>																																	
Algona	Des Moines	.76						.05	.24				.24					.86		.61	.24			.90						.10		.36	3.75
Allison (near)	Cedar	.52						.05											.61		.23			.47							.44	3.70	
Alta	Raccoon	.65						.10	.36	1.02	.02		.02	.02				.25	.30	.08		.02		.06	1.25	.47	.07				.54	3.38	
Alton	Floyd	T.	.08				.13	.67	.48				.02					.57			.07			.70	.02	.02				.10		.28	2.86
Belmond	Iowa	.63						.01	.15	T.			.02	.02				.66		.03				.13	1.31	1.53				.33	.58	5.47	
Britt	Iowa	.66						.28	.18				.05					.76		.06	.15			.08	.91	2.63			.47	.60	6.83		
Charles City ***	Cedar	.33	.01	.01					.42	.09			.05	.03				.66		.11			.25	.49	.48	T.		.24	.38	3.55			
Cherokee	Little Sioux	T.	.38	T.			.35	.75	.35	.47			.02			T.		.45		.04			.09	.23	T.			.53	.05	3.71			
Decorah	Mississippi	.37		.03									.12					.54		.05	.08			.05	.06	.16			.01		1.46		
Dubuque ***	Mississippi	.23		T.									.49	.13	.01	.01	.34		.01	.09			.06	.56	.05	.02			T.	.46	2.47		
Estherville	Des Moines	.42						T.		.05			.03	T.			.05	.70	.05	T.		.05		.05					.45		1.90		
Fayette	Mississippi			T.					.66	.03			.08	T.				.49		.11			.64	.29	T.			.05		.56	2.75		
Forest City	Cedar	.63		.02					.10	.06			.07					.12	.59	.02	T.	.17	.18	.26	.43			1.10	.10	3.85			
Hampton	Cedar	.34	.04					T.	.40	.02			.03					.45			.02		.12	.11	1.61				.65		3.77		
Humboldt	Des Moines	.48		T.					.25	.38	.05		T.					.63			.09			.12					T.	.56	2.56		
Independence	Wapsipinicon	.27								T.																					.06	2.48	
Inwood	Big Sioux	.06						.25	.28	.20	.03			.02	.01			.22		T.			.15		1.36					.06	2.42		
Lansing	Mississippi	.17	.25	.01										.02	.57					.43		.07	.03			.01			T.	.05	1.48		
Le Mars	Floyd	.10					.33	.66	.01	.61	T.			.04				.60		.03			.05	.05		.01	.28			.37	2.07		
Mason City	Cedar	.45		.03				T.	T.	1.05			.07			T.		.78		.11	.06			.27	.39	.09			.71	.48	4.49		
Milford (near)	Little Sioux							.18		.65						.80												1.50		.40	3.53		
New Hampton	Wapsipinicon	.40							.41	.06				T.				.65	.05		.15		.27			.01				.40	2.40		
Nora Springs	Cedar	.52		.12				.22	.97				.11					.81		.15	.10		.25	.41	.09	.05			.45	.88	5.13		
Northwood	Cedar	.57		.03				.25	1.70				.08					.83		.10	.10		.28	T.	.07				.25	1.08	5.34		
Oswein	Wapsipinicon	.40							.30									.55		.30			.20	.50	.80					.45	3.50		
Osage	Cedar	.37						T.	T.									.85		T.	.18		.37	T.	.33	.28			.11	1.05	3.57		
Pocahontas	Des Moines	.82		.05				.03	.06	.35			.02	.03				.75		.02	.08		.02	T.	.53				.03		2.76		
Postville	Mississippi	.25											.35					.38	.04		.20		T.	.29	.25	.22				T.	.66	2.64	
Rock Rapids	Big Sioux	.02					.15	.47	.50	.14			.07					.17		.05	.09			.02						.13	.04	1.85	
Sanborn	Floyd	.46						T.	1.03		.31			.07				1.12			.14			.20						T.	4.70		
Sheldon	Floyd	.14	T.				.13	.46	.02	.28			.02					.60		.05	.07			.12					.19	.01	2.09		
Sioux Center	Floyd	T.	.04	T.			.14	.54	.74	.13			T.					.61		.10				.68	.02	T.			.33	3.33			
Spencer	Little Sioux	.39						.11	.03	.90			.03					.73		.03	.05		T.	.33	.03				.65		.20	3.51	
Storm Lake	Raccoon	.80						.23	.71	.14			.03					.54		.08	.02		.01		.06	.02					.24	2.64	
Washta	Little Sioux	T.	.40				.13	.53	T.	.80			.02					.50		.04				.08	.03				T.	.41	T.	2.94	
Waterloo	Cedar	.10	.05												.20			.02		.46			.25	.14		1.60					2.82		
Waverly	Cedar	.33		.05				.04	.02					.10				.56		.33			.20	.49	.65				.16	.45	3.44		
West Bend	Des Moines	.82		.03				.10	.30				.05					.50		T.	.10			T.	1.43				.03	.29	3.65		
<i>Central Division</i>																																	
Ames	Skunk	.03							.01									.72	T.		.18								.43	1.68			
Audubon	Nishnabotna	.02						T.	.09	.03								.45		.04	.02					.08		.23	.05	1.13			
Baxter	Skunk	T.						.05						T.				.72		T.	.16		T.	.05	.05			T.	.54	1.57			
Belle Plaine	Iowa	.07							.02	.10				T.	.12			.64		T.	.10			.01	.13				.09	1.28			
Boone	Des Moines	T.	T.						T.	T.	T.							.75		T.	.14			.04				.03		0.96			
Carroll	Raccoon	.05						.04	.20	.16								.05	.40		.06	.19		.05				.50	.03	.40	.02	2.15	
Cedar Rapids	Cedar		.04												.01				.45		T.	.04		.01	.53	.96	.04			T.	1.55		
Clinton	Mississippi	.32		.01					.98				.50	.68				.24		.02	.03		.06	.53	.04				.27	3.68			
Davenport ***	Mississippi	.26		T.				.18	.15				.29	.09				.23		T.	.05		T.	.66	.03			.04	.12	2.10			
Davenport (No.2)	Mississippi	.29							T.	.42			.24	.32				.21		.02	.08		.02	.18	.22		.03		.17	19.	2.39		
Denison	Missouri	1.73						.72	.13	.08								.33		.05	.05								T.	3.36			
Des Moines ***	Des Moines	.08	T.					T.	T.	.02						.09		1.08		.04	.16		.01	.06		.17	.05	.05	.06	.24	2.11		
Fairport	Mississippi	.22							.97				.20	.07				.32	.03		.01			.04	.11				T.	1.97			
Fort Dodge	Des Moines	.35							.02	.02			.02					.37			T.		.05	.03	.10				.12	.16	1.22		
Grinnell	Iowa	.08								.35				T.	.02			.03	.55		T.	.10		.01		T.	.03		.41	1.58			
Grundy Center	Cedar																																
Guthrie Center	Raccoon	.03						.10	.14	.06								.30	.60		.17		.03				1.03		T.	.24	2.70		
Harlan	Nishnabotna	.01					.03	.03	.01									.18			.04			.04					.16		0.52		
Iowa City	Iowa	.03	.08												.04	T.			.35		T.	.02			.17		T.		.06	1.93			
Iowa Falls	Iowa	.04	.22						.63	T.					.10			.01			.42	T.	T.	.23	.05		2.27		.21		4.18		
Jefferson	Raccoon	.04						T.	.04	.11								.43		.09	.08		T.	.04		.10		T.	.06	.02	.12	1.09	
Le Claire	Mississippi	.34	T.						.13				.39	.16				.21		.21	.03		T.	.04		.02			.29	.02	1.60		
Little Sioux	Little Sioux	* 1.15					.06	.40	2.56	.03								.22		.03	.15								.04	4.76			
Logan	Missouri	.30	.70				.20	.58		.37								.30												.04	2.86		
Maquoketa	Maquoketa	.06		T.					.57					.13	.79				.31				T.			.15	1.07		.17	3.25			
Marshalltown	Iowa		.10						.02	T.								.08			T.	.81	T.	.16	.01				T.	1.19			
Monroe	Des Moines	.08																.93		.11			T.		T.				.20	1.80			
Muscatine	Mississippi		.10												.48	.03		.48			.40		.02										

Daily Precipitation for May, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals				
		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					
<i>Southern Division</i>																																					
Afton	Grand	.05						.08	.02	.77	.12							.10	.35			.07												1.65	.10	.15	3.46
Albia	Des Moines		.08							T.	.41						.09		.01	T.	.85	T.	T.	.02		T.							.41			1.87	
Atlantic	Nishnabotna	.19								.11	.16								.24	.35	.07	.02	.02	.02								.26			.44	1.89	
Bonaparte (near)	Des Moines	T.								T.									.19	.11		T.	T.		.05		T.				.81		.11	.65	1.92		
Burlington	Mississippi		.13								1.08					.08	T.		T.			.03		.70							.11	.12	.54		.65	2.79	
Centerville	Chariton	T.								T.	.47				.02	.01																		1.35		.01	2.32
Chariton (near)	Chariton									T.	.60	.15							T.	1.25			T.										.95		.28	3.23	
Clarinda	Nodaway	.10								.02	.33	1.43	.05						.07	.15	.03		.28								.09		.13	.32	.30	3.00	
Columbus Jct.	Iowa	.02									1.05	.05			.14	.03		T.	.02	.29	.01		.03				1.13				.01			.15	.23	2.93	
Corning (near)	Nodaway	.05								T.	.50																						1.25		.67	2.93	
Corydon	Chariton	.02						.07			.26									1.09			.10		.01							1.16			.26	2.97	
Creston	Missouri	.13						.02	.03		.90								.10	.22	.10		.05	.03							1.43			.22	3.23		
Cumberland (near)	Nodaway	.27						.06	T.	.60	T.									.37	.44		T.	.02								.36			.53	2.65	
Earlham (near)	Des Moines	T.						T.		.29	T.									.38	.38			.15		.11					.54		.10	.18	.23	2.13	
Fairfield	Skunk	.03								.61	.04					.03						.30						.07	.19				.40		.16	1.67	
Glenwood	Missouri	.30						.03	.10	.68	.14									.12	.42		.88								.26		.16	.04	.33	3.13	
Indianola	Des Moines									.10	T.								.34	1.14			.13				T.	T.	.64			.12		.12	.27	2.47	
Keokuk	Mississippi	.22								T.	T.									.14		.24		.03		.03				.68	.14	1.06	.16	.44	.37	3.14	
Keosauqua	Des Moines	T.								T.	T.									T.	T.	.37								.08	.78			.53	.16	1.76	
Knoxville	Des Moines	.08								.42	.37									.05		.25	1.18								.23			T.	.44	2.58	
Lacona	Des Moines	.05									.20	.20		.01	.01					.10	1.60		.01		.01			.01	.50		.01	.07		.07	2.78		
Lamoni	Grand									T.	.22	.30	.68							.01	.17	1.08		.15	.05					1.23		.10		.37	3.99		
Lenox	Missouri	.06								.06	.02	.60	.05							.05	.40		.18		.02						.35			1.25	.04	3.04	
Mount Ayr	Grand	T.								.03	T.	.43	.11							.14	.53		T.	.13		.03				.65	T.	.09		.37	.25	3.51	
Mt. Pleasant	Skunk	.08									.18	.04									.14	.14		.03				T.	.22				.43		1.12		
Oakland	Nishnabotna	.14								.06	.50	.20									.28		.58								.65				.65	2.49	
Oskaloosa	Des Moines	.04								T.	T.	.08	.02							T.	T.		T.	.11	.73					.05	.03		.66	.03	.30	2.05	
Ottumwa	Des Moines	T.									.08										.04		.79	.02						.06		T.	.66	.50	.22	2.37	
Red Oak (near)	Missouri	.24								T.	.18	2.00								.50			.80								.47			.60	.47	4.79	
Riverton (near)	Nishnabotna	.14								.17	.04	1.91									.03		.33		.35						.33			.79	.49	4.09	
Sigourney (near)	Skunk	.15									T.	T.																							.65	2.08	
Stockport	Skunk	.04									.02									.01	.16		T.							.36	.36		.06	.76	1.81		
Thurman	Missouri	T.	.44							T.	.12	1.44	.18	T.						.05	.75		.68							1.38		.08	.09	.03	5.24		
Tingley	Platt	.04								T.	1.00										.08	.46		.13						1.21	.07	.30		.14	3.49		
Washington	Skunk	T.	T.								.05	.04								.04	T.		.06							.72			.34		1.59		
Wescott (near)	Mississippi										T.									.10										.25	.20		.60		.50	1.75	
Winterset	Des Moines	.04								.02	.04	.25								.28	.58			.09		.15	T.			.52		.05	.16	.28	2.18		
Omaha, Neb.	Missouri	.27	.03							T.	.04	.04	.20	.04						.08			.02	.44					.28	.01	T.		.10	.06	1.87		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

**Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.

**Incomplete.

*Precipitation included in the next following measurement.

T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 35)

as follows: Northern, 3.31 inches, or 1.29 inches less than the normal; Central, 2.29 inches, or 2.32 inches less than the normal; Southern, 2.69 inches, or 1.93 inches less than the normal. The greatest amount, 6.83 inches, occurred at Britt, and the least, 0.52 inch, occurred at Harlan. The greatest amount in any 24 consecutive hours, 2.63 inches, occurred at Britt, on the 25th.

MISCELLANEOUS PHENOMENA

Aurora: 3d, 4th, 5th.

Fog: 18th, 22d.

Frost: 3d, 14th, 15th, 22d.

Hail: 1st, 8th, 9th, 16th, 20th, 24th, 26th, 29th.

Halos (lunar and solar): 4th, 9th, 12th, 16th, 25th, 28th, 29th, 30th.

Haze: 6th.

Rainbows: 24th, 25th.

Thunderstorms: 1st, 2d, 4th, 7th, 8th, 9th, 13th, 16th,

17th, 18th, 20th, 21st, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st.

Dust Storms: 4th, 5th, 6th, 7th, 15th, 21st.

RIVERS

Low stages prevailed on the Mississippi River with a general falling tendency. At almost all stations the highest stage occurred on the 1st and the lowest on the last day of the month. There was a rather sharp rise on the Missouri River during the first week after which moderate and nearly stationary stages prevailed. Low stages prevailed on all interior rivers but there were several slight rises in the rivers in the eastern and central portions. Unusually low stages prevailed in the north-western portion of the State.

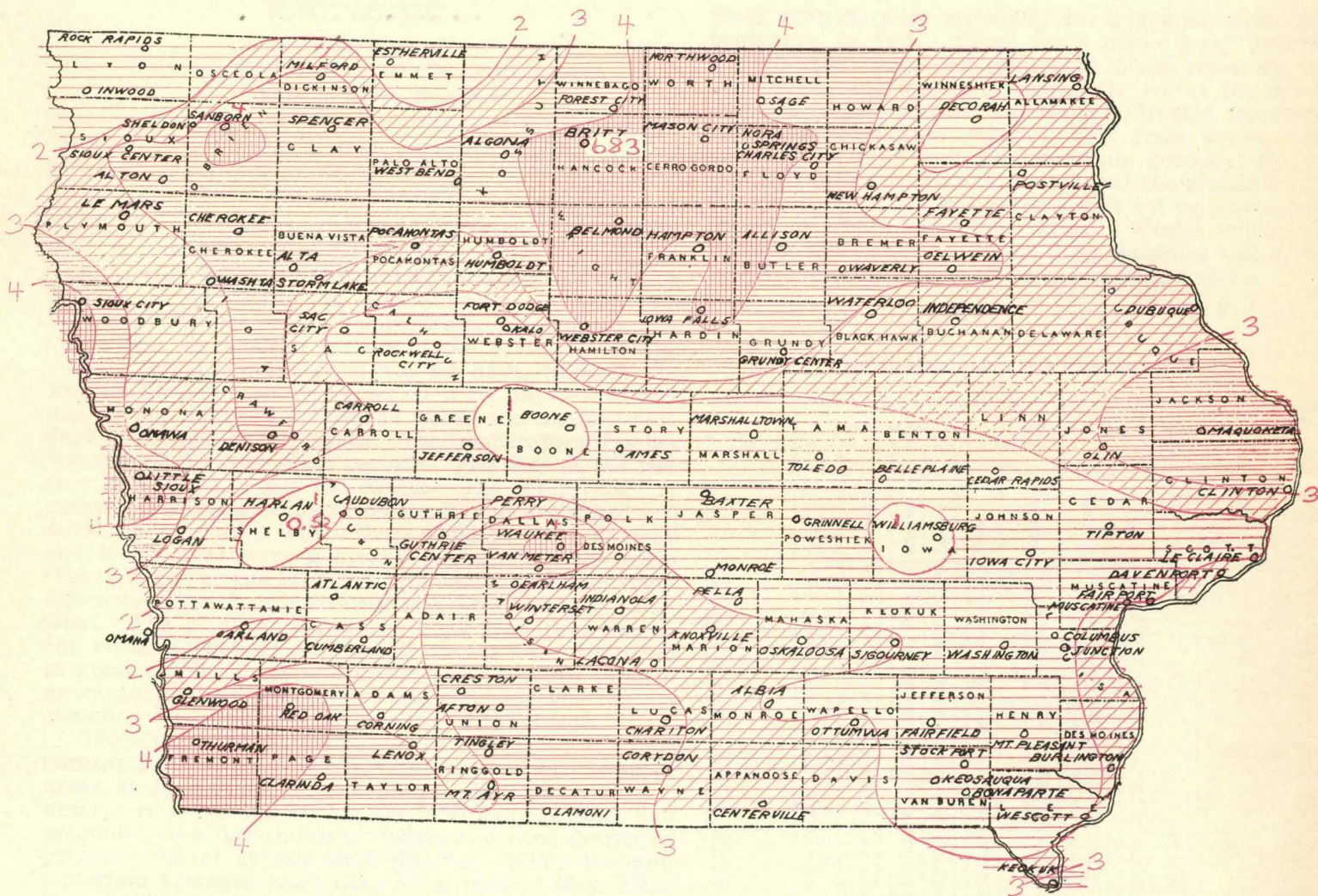
ERRATA

Report for April, 1926. Page 26; Britt, prevailing wind direction recorded northeast, should be northwest.

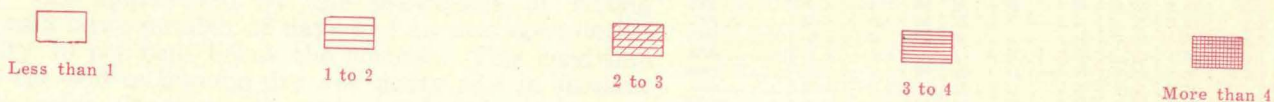
Daily Maximum and Minimum Temperature for the Month of May, 1926

Stations	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	Mean		
<i>Northern Division</i>																																		
Algona	Maximum	85	85	50	80	83	83	77	76	75	66	77	65	66	72	42	52	54	49	46	45	49	65	86	92	87	85	77	80	82	90	82	78.5	
	Minimum	58	55	30	48	57	54	57	58	53	50	42	44	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
Alta	Maximum	85	64	64	82	84	84	76	70	74	64	66	68	56	67	78	80	78	64	66	78	69	73	90	93	89	93	80	86	79	88	70	76.1	
	Minimum	58	50	31	49	59	58	59	54	52	48	45	44	40	35	43	52	54	48	46	47	44	37	53	66	63	66	57	59	62	59	60	51.5	
Alton	Maximum	87	71	64	85	85	83	73	69	73	63	65	69	64	69	82	79	80	69	68	82	74	74	91	91	88	90	78	87	89	75	77.4		
	Minimum	58	55	29	54	60	60	61	58	50	49	45	43	47	29	37	50	46	49	45	50	55	34	56	63	65	65	58	60	61	55	62	51.9	
Belmond	Maximum	85	74	58	82	84	84	79	79	80	67	66	72	60	65	80	83	80	69	63	75	70	66	89	94	88	83	74	78	82	89	78	76.6	
	Minimum	55	53	30	47	58	52	58	57	50	46	38	44	40	32	38	51	47	49	43	43	48	36	51	61	62	65	52	52	55	54	59	49.3	
Charles City	Maximum	85	67	56	81	83	84	82	81	81	68	66	71	61	65	79	80	78	60	63	71	69	63	86	90	87	81	74	76	85	86	73	75.2	
	Minimum	49	42	32	44	56	51	59	57	55	45	41	45	41	37	41	53	51	44	41	42	41	37	47	63	61	57	52	56	57	59	52	48.6	
Decorah	Maximum	85	75	58	75	82	83	83	83	82	79	69	73	66	62	78	80	72	65	63	66	66	64	85	88	84	77	75	77	90	88	81	75.9	
	Minimum	43	52	30	37	54	50	58	53	53	44	37	35	41	35	34	50	48	50	40	33	45	35	40	57	54	53	46	48	55	54	56	45.8	
Dubuque	Maximum	84	71	53	68	82	84	83	81	79	65	64	70	61	61	76	82	80	61	65	67	76	63	81	85	85	74	74	75	89	86	75	74.2	
	Minimum	46	50	38	41	55	58	59	61	56	47	43	45	45	40	42	57	55	49	47	41	46	42	45	63	57	54	51	54	59	67	61	50.8	
Forest City	Maximum	85	78	56	81	84	84	77	76	78	65	65	72	65	65	80	80	79	78	83	72	70	75	87	89	87	83	73	76	83	88	76	77.1	
	Minimum	53	45	28	42	58	52	57	56	52	48	42	44	47	33	40	49	54	49	42	40	55	36	48	62	61	62	52	54	56	55	61	49.5	
Independence	Maximum	86	81	64	75	82	84	84	84	82	74	68	71	68	64	78	84	81	81	64	69	71	62	82	90	89	88	78	75	90	89	75	77.8	
	Minimum	51	55	32	41	52	51	57	67	54	45	40	45	40	45	40	35	52	50	42	43	40	55	40	43	62	60	58	50	54	69	64	49.6a	
Inwood	Maximum	90	70	66	91	88	84	75	68	71	61	67	73	61	70	87	80	81	75	70	88	75	76	96	94	92	89	81	90	82	96	78	79.5	
	Minimum	56	49	27	56	61	61	59	56	50	47	41	38	45	28	41	48	43	49	40	50	32	55	64	65	62	59	60	58	54	58	50.4		
Mason City	Maximum	86	75	60	82	85	84	80	78	80	65	65	70	63	64	80	79	78	67	67	72	68	63	88	90	87	81	73	75	84	88	78	76.0	
	Minimum	49	54	29	45	58	50	54	50	51	48	38	43	40	34	38	51	49	40	42	43	47	36	47	59	61	59	50	54	55	55	59	48.0	
Milford (near)	Maximum	85	81	63	82	85	85	76	74	79	62	61	69	66	67	81	80	72	62	64	77	79	65	90	93	90	87	75	89	80	82	80	76.9	
	Minimum	56	53	25	58	52	66	62	55	46	50	45	38	45	27	40	50	45	40	40	48	43	30	46	62	60	62	54	54	52	48	45	43.3	
New Hampton	Maximum	85	73	55	80	86	84	83	83	83	69	66	73	69	65	81	82	80	73	64	69	70	65	85	91	87	85	77	84	88	89	73	77.3	
	Minimum	41	50	30	42	54	51	56	55	54	43	39	42	43	38	40	51	55	44	39	43	49	35	46	62	59	55	48	52	58	61	59	48.2	
Northwood	Maximum	83	77	53	80	81	81	80	80	80	69	62	64	62	64	76	78	77	66	63	71	67	63	85	88	88	80	80	78	78	87	75	75.0e	
	Minimum	47	29	21	41	56	56	54	51	40	40	39	42	42	33	44	51	52	48	44	42	47	36	45	60	60	50	52	56	56	57	47.7f		
Pocahontas	Maximum	86	77	63	87	85	85	76	76	79	66	67	71	62	68	80	83	78	68	65	79	75	70	89	96	89	89	76	89	88	92	77	78.4	
	Minimum	56	55	32	48	58	53	57	58	52	46	45	45	44	32	38	53	52	53	45	45	52	33	47	67	61	65	56	56	66	54	60	51.2	
Postville	Maximum	83	76	56	72	81	81	80	80	76	64	63	68	64	50	75	79	77	63	61	65	70	58	79	85	81	77	70	73	86	83	72	72.5	
	Minimum	57	53	29	43	61	55	59	59	48	42	37	35	42	35	38	58	49	44	38	34	47	36	49	59	53	52	45	48	55	57	57	47.4	
Rock Rapids	Maximum	87	75	64	88	86	85	77	70	72	64	67	70	65	70	82	88	78	72	70	84	80	75	95	95	91	85	82	90	86	93	82	79.4	
	Minimum	55	54	30	54	60	58	59	57	51	45	42	39	45	31	35	48	42	51	41	48	51	33	54	68	65	62	59	60	60	50	60	50.5	
<i>Central Division</i>																																		
Belle Plaine	Maximum	87	81	61	80	85	84	82	83	81	69	67	74	71	65	80	87	87	77	67	72	75	63	85	95	94	90	80	80	93	91	81	79.6	
	Minimum	68	58	34	45	55	51	56	59	52	47	41	43	48	40	35	50	56	50	40	40	54	39	47	53	62	53	62	55	62	55	62	50.2b	
Boone	Maximum	89	76	66	85	85	84	79	80	82	72	70	74	63	70	80	87	85	78	67	77	70	67	89	94	91	93	78	87	86	91	81	79.9	
	Minimum	51	59	34	50	59	45	61	58	50	52	39	43	47	32	29	45	44	47	37	54	36	53	60	64	63	60	67	67	68	63	69.8		
Carroll	Maximum	85	78	67	83	81	83	76	74	77	72	71	74	65	69	80	86	86	74	68	79	74	71	87	93	90	87	86	84	90	80	79.6		
	Minimum	59	57	33	49	60	55	59	55	52	49	43	50	45	31	42	52	50	49	46	47	46	35	47	61	60	66	56	67	56	64	51.5		
Cedar Rapids	Maximum	87	75	60	76	85	85	85	83	81	70	68	72	71	60	80	86	85	74	73	71	78	66	86	95	92	85	75	78	93	90	80	78.9	
	Minimum	48	59	35	43	54	48	55	58	51	50	43	39	42	32	49	52	50	45	35	55	42	40	63	61	66	52	56	60	61	64	50.0		
Davenport	Maximum	84	76	60	89	82	84	83	82	80	64	66	72	71	54	76	84	83	66	68	70	81	65	79	93	91	86	74						

TOTAL PRECIPITATION, MAY, 1926



SCALE OF SHADES IN INCHES



CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, JUNE, 1926 No. 6

GENERAL SUMMARY

During the greater part of the month, June was persistently and disagreeably cool. The only warm periods were from the 6th to the 12th and on the last three days of the month, while there was a continuous cool period of 14 days, 14th-27th. There were stations in the eastern portion of the State in each division where the temperature failed to reach 90 degrees while there were several stations in the extreme western portion that recorded 100 degrees or higher. The greatest deficiency occurred over the eastern portion of the State gradually diminishing to the Missouri River, this being the third consecutive month that this condition has obtained. Light frost occurred in low lands on the 3rd, with a minimum temperature of 32 degrees at Decorah, and again on the 26th many fields of corn in low lands were blackened; beans and tomatoes also were injured in localities, but there was no permanent damage.

The drouth that had prevailed over much of the State was completely broken during the 2nd week, starting on the 10th. Unusually heavy rains occurred over much of the central and southern divisions. For the State as a whole there was a deficiency of only 0.01 inch of precipitation, the average for the central division being practically normal, and the deficiency of 1.73 inches in the northern division was exactly offset by the same excess in the southern division. There was considerable damage, amounting to probably more than \$1,000,000 from wind, hail and floods, but this was but a small per cent of the benefit that accrued to many counties in sections of the State where the drouth had persisted. In Dallas and the western portion of Polk Counties there was considerable damage due to excessive rainfall on the 12th-13th, where small streams that are normally dry became raging torrents. At Perry, 7.57 inches of rain fell in 19½ hours. Cultivated land with a slight slope was badly eroded and hundreds of acres of bottom land was covered with water for periods ranging from a few hours to more than two days. There was also considerable damage in the south-central portion of the State from floods due to excessive rainfall in that section. At Lacona a rainfall of 7.75 inches occurred in 17 hours on the 13th. Much bottom land in this section was flooded and a number of washouts occurred on the main line of the Burlington Railroad in the vicinity of Melrose. The total length of track washed out amounted to more than one mile, and as soon as the damage was repaired a second washout in the same track occurred from heavy rains farther up stream. It was necessary to detour trains over other lines for several days. Hail storms occurred on numerous days but they were not unusually destructive. During the storm period from the 10th to 13th hail storms occurred daily in some part of the State. The worst reported occurred in Hancock County, where stones as large as goose eggs were reported, causing damage to buildings of about \$10,000 and \$50,000 to crops. A destructive tornado occurred

in Page County on the afternoon of the 16th and passed over the extreme southern portion of the City of Clarinda, causing a property damage of \$250,000 and the loss of two lives and twenty-four people rather seriously injured. On the same afternoon another tornado occurred in Ringgold County but it passed over a sparsely settled area and the damage was light in comparison with the Page County tornado. On the 20th a tornado touched the ground in a few places in the extreme northeast corner of Pottawattamie and the northwest township of Cass Counties.

The rains came too late to be the most benefit to hay and small grain. Over most of the State oats headed short and the hay crop was rather light. The weather was too cool for the best development of corn but at the close of the month the general condition compared favorably with the average of past years, and fields were generally clean except in small areas in the southeast portion.

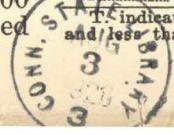
Details of hail storms, wind storms and tornadoes appear on page 47.

F. L. D.

COMPARATIVE DATA FOR THE STATE—JUNE

YEAR	Temperature				Precipitation					Number of Days			
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	71.5	+ 5.3	96	56	4.68	+ 0.15	8.40	1.20					
1874.....	71.4	+ 2.1	98	47	5.83	+ 1.30	8.55	2.60					
1875.....	67.5	+ 1.8	92	45	7.81	+ 3.28	10.80	1.63					
1876.....	67.6	+ 1.7	92	41	4.09	+ 0.44	10.34	0.25					
1877.....	66.9	+ 2.4	92	40	6.80	+ 2.27	13.12	3.21					
1878.....	66.7	+ 2.6	94	44	6.34	+ 1.81	11.60	2.78					
1879.....	69.4	+ 0.1	92	40	5.12	+ 0.59	10.60	1.47					
1880.....	71.0	+ 1.7	96	42	4.40	+ 0.13	11.12	1.03					
1881.....	70.4	+ 1.1	100	40	7.37	+ 2.84	17.37	2.75					
1882.....	68.1	+ 1.2	98	33	7.48	+ 2.95	15.41	2.93					
1883.....	67.6	+ 1.7	96	38	6.69	+ 2.16	14.20	1.30					
1884.....	70.2	+ 0.9	95	36	3.65	+ 0.88	8.80	0.70					
1885.....	67.9	+ 1.4	89	42	5.08	+ 0.55	11.04	1.31					
1886.....	69.3	+ 0.0	98	34	1.73	+ 2.80	3.42	0.10					
1887.....	72.1	+ 2.8	103	40	2.93	+ 1.60	7.92	0.96					
1888.....	69.4	+ 0.1	102	34	2.93	+ 1.60	6.01	0.96					
1889.....	66.7	+ 2.6	98	33	4.75	+ 0.22	9.87	1.69					
1890.....	72.2	+ 2.9	106	39	6.67	+ 2.14	16.53	1.57		11	12	10	8
1891.....	69.1	+ 0.2	99	37	5.39	+ 0.86	19.88	1.68		11	8	10	7
1892.....	69.2	+ 0.1	102	42	5.19	+ 0.66	14.16	0.67		10	12	11	7
1893.....	71.2	+ 1.9	100	40	3.91	+ 0.62	7.56	1.36		8	15	11	4
1894.....	73.2	+ 3.9	104	34	2.67	+ 1.86	6.20	0.57		7	16	10	4
1895.....	69.7	+ 0.4	102	34	4.32	+ 0.21	9.26	0.98		10	11	11	8
1896.....	69.1	+ 0.2	100	40	3.11	+ 1.42	7.89	0.81		9	12	13	5
1897.....	69.1	+ 0.2	103	29	3.81	+ 0.72	9.38	1.03		10	10	12	8
1898.....	71.4	+ 2.1	99	42	4.72	+ 0.19	12.48	1.90		9	13	10	7
1899.....	70.7	+ 1.4	100	42	5.04	+ 0.51	11.99	1.10		10	12	13	5
1900.....	69.7	+ 0.4	102	38	3.98	+ 0.55	12.35	0.67		5	17	10	3
1901.....	72.3	+ 3.0	106	30	3.71	+ 0.82	7.84	1.05		9	15	11	4
1902.....	65.2	+ 4.1	97	32	7.16	+ 2.63	16.04	1.46		14	8	11	11
1903.....	64.6	+ 4.7	96	30	2.86	+ 1.67	6.04	0.75		10	13	10	7
1904.....	67.1	+ 2.2	94	35	3.45	+ 1.08	8.35	0.44		7	13	10	7
1905.....	69.9	+ 0.6	100	36	5.53	+ 1.00	14.89	1.80		10	12	11	7
1906.....	67.9	+ 1.4	99	37	3.92	+ 0.61	8.27	1.48		8	15	10	5
1907.....	66.5	+ 2.8	98	36	5.35	+ 0.82	9.33	2.07		11	14	9	7
1908.....	67.1	+ 2.2	94	35	5.66	+ 1.13	11.88	1.77		13	12	10	8
1909.....	69.1	+ 0.2	96	40	6.41	+ 1.88	13.30	2.80		13	12	10	8
1910.....	69.5	+ 0.2	105	33	1.99	+ 2.54	5.51	0.05		7	18	7	5
1911.....	75.7	+ 6.4	108	36	1.82	+ 2.71	6.28	0.06		5	20	8	2
1912.....	66.2	+ 3.1	101	34	2.74	+ 1.79	5.71	0.78		7	15	9	6
1913.....	71.5	+ 2.2	102	33	3.31	+ 1.22	8.95	0.74		7	19	8	3
1914.....	72.2	+ 2.9	101	40	5.57	+ 1.04	13.24	1.17		13	12	14	4
1915.....	65.1	+ 4.2	91	31	4.16	+ 0.37	9.99	1.72		11	12	12	6
1916.....	64.5	+ 4.8	96	38	3.71	+ 0.82	7.96	1.41		10	13	11	6
1917.....	66.0	+ 3.3	100	32	6.65	+ 2.12	13.82	3.04		12	13	10	7
1918.....	70.8	+ 1.5	104	38	5.29	+ 0.76	10.19	1.55		11	16	10	4
1919.....	71.9	+ 2.6	98	41	6.13	+ 1.60	12.25	1.82		13	12	12	6
1920.....	70.7	+ 1.4	99	40	3.56	+ 0.97	8.48	1.25		9	16	10	4
1921.....	74.7	+ 5.4	100	40	3.76	+ 0.77	8.85	0.56		9	16	10	4
1922.....	72.2	+ 2.9	104	38	1.82	+ 2.71	7.19	0.28		6	19	8	3
1923.....	70.9	+ 1.6	100	40	4.93	+ 0.40	7.69	2.43		12	14	10	6
1924.....	66.8	+ 2.5	96	35	8.10	+ 3.57	14.92	4.00		14	11	14	5
1925.....	70.4	+ 1.1	98	38	6.64	+ 2.11	13.30	2.99		12	15	9	6
1926.....	66.2	+ 3.1	105	32	4.52	+ 0.01	12.09	1.05		8	16	9	5

* Indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for June, 1926

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit						Precipitation, in inches				Number of Days				OBSERVERS		
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy		Cloudy	Prevailing direction of wind
<i>Northern Division</i>																				
Algona	Kossuth	1,213	53	65.0	- 3.6	92	28	44	2†	39	3.29	- 1.22	1.55	0	6	25	2	3	se.	W. E. Laird
Allison (near)	Butler	1,044	14	63.8	- 4.3	95	28	39	26	39	1.32	- 3.63	0.63	0	6	15	11	4	nw.	J. A. Bell
Alta	Buena Vista	1,413	35	66.4	- 1.4	97	11	45	26	37	3.70	- 1.46	2.12	0	8	11	16	3	nw.	D. E. Hadden
Alton	Sioux	1,305	21	67.1	- 1.3	99	11	39	4	45	2.50	- 1.46	1.42	0	7	9	17	4	nw.	W. S. Slagle
Belmond	Wright	1,181	16	64.0	- 4.5	95	11†	40	4	41	1.99	- 2.77	0.70	0	8	11	9	10	nw.	H. F. Luick
Britt	Hancock	1,236	29	63.7	- 3.7	92	28	42	2†	39	2.62	- 1.91	1.10	0	7	23	4	3	nw.	James S. Ross
Charles City	Floyd	1,015	35	63.2	- 3.3	94	28	42	26	37	1.28	- 3.40	0.77	0	11	15	9	6	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	4	65.0a		97a	11	40a	26	41a	4.74		2.64	0	11				n.	J. E. Wirth
Decorah	Winneshiek	875	33	61.5	- 6.5	95	28	32	3	50	1.60	- 2.92	0.47	0	7	15	9	6	nw.	M. D. Whitney
Dubuque	Dubuque	698	53	64.4	- 5.0	86	12	45	3	32	3.76	- 0.59	2.55	0	8	9	12	9	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	31	66.0	- 0.9	96	11	43	2	37	2.94	- 1.40	1.10	0	10	16	13	1	s.	A. O. Peterson
Fayette	Fayette	1,003	38	63.1	- 4.2	91	28	38	3†	45	2.65	- 2.19	2.15	0	5	23	4	3	nw.	R. Z. Latimer
Forest City	Winnebago	1,226	32	63.6	- 4.2	92	28	43	3	38	4.89	+ 0.34	1.38	0	9	14	11	5	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	1	63.8g	- 4.2	94g	11†	41g	19	46g	1.14	- 3.80	0.58	0	5				se.	L. H. Davis
Humboldt	Humboldt	1,095	38	65.5	- 3.8	99	11	40	4	49	2.01	- 2.37	1.03	0	6	17	7	6	nw.	H. C. Snitkey
Independence	Buchanan	921	62	64.8	- 3.5	89	11†	42	3	35	4.76	+ 0.14	2.04	0	7	17	7	6	nw.	Dr. George Boody
Inwood	Lyon	1,474	22	67.4	- 0.3	103	28	39	4	42	1.96	- 0.55	2.78	0	11	21	4	5	nw.	A. C. Hanson
Lansing	Allamakee	632	19								1.90	- 2.58	0.78	0	10				nw.	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	30	67.9	- 0.7	101	11	41	4†	46	3.58	- 0.80	2.33	0	6	25	2	3	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	29	62.6	- 5.0	93	28	39	4	42	2.50	- 2.64	1.15	0	6	12	14	4	nw.	American Beet Sugar Co.
Milford (near)	Dickinson	1,430	6	65.4		98	28	36	17	51	1.50		0.60	0	5	15	9	6	nw.	Leslie E. Douglas
New Hampton	Chickasaw	1,169	29	63.8	- 3.9	95	28	42	3†	38	1.05	- 3.52	0.70	0	6				nw.	E. J. Feuling
Nora Springs	Floyd	1,064	14	63.3	- 5.4	94	28	40	3†	41	2.75	- 2.34	0.92	0	11	21	6	3	s.	Arthur Betts
Northwood	Worth	1,222	30	63.6d	- 3.1	92d	28	41c	3	36e	3.05	- 1.81	0.72	0	7	8	17	5	nw.	Charles Dwelle
Oelwein	Fayette	1,036	2	63.8		88	28	40a	3	36a	3.80		2.30	0	6	23	3	4	s.	John T. Ridler
Osage	Mitchell	1,163	1	63.2		93	28	39	3	39			1.83	0	11				nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	22	63.8	- 2.5	97	28	42	1	44	2.37	- 1.77	0.90	0	4				se.	F. E. Hronek
Postville	Clayton	1,180	27	60.6	- 5.1	86	29	38	3†	38	2.32	- 1.84	1.05	0	8	8	16	6	nw.	F. L. Williams
Rock Rapids	Lyon	1,358	27	66.5	- 1.4	101	28	39	4	50	2.97	- 1.65	1.18	0	11	23	5	2	nw.	J. K. Medberry
Sarnborn	O'Brien	1,553	12	65.6	- 2.1	100	28	40	26	41	1.62	- 3.11	0.55	0	6	15	10	5	nw.	J. W. Dow
Sheldon	O'Brien	1,418	1	66.8		102	28	39	4†	46	2.03		0.78	0	10	17	10	3	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	27	66.4	- 1.1	99	11	42	3	48	3.51	- 0.55	1.74	0	8				nw.	J. De Ruyter
Spencer	Clay	1,319	12	65.8	- 2.7	99	11	39	4	44	3.53	- 0.67	1.40	0	7	16	10	4	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	37	67.0	- 1.5	96	11	45a	26	33a	3.26	- 1.74	2.18	0	8	22	6	2	s.	George H. Fracker
Washta	Cherokee	1,157	28	65.8	- 2.3	98	11	38	4	49	6.32	+ 1.74	2.37	0	6	18	9	3	s.	H. L. Felter
Waterloo	Black Hawk	854	43	65.3	- 4.1	95	11	39	5	43	1.80	- 2.33	0.81	0	5	19	8	3	nw.	R. B. Shippy
Waverly	Bremer	936	30	64.4b	- 3.8	93b	28	40b	3†	41b	2.70	- 1.57	2.06	0	7				n.	D. H. Murphy
West Bend	Palo Alto	1,197	33	64.6	- 3.8	94	28	40	4	46	2.48	- 1.81	0.82	0	6	12	13	5	nw.	Jos. Dorweiler
Means and extremes				65.0	- 3.0	103	28	32	3	51	2.88	- 1.73	2.78	0	8	17	9	4	nw.	
<i>Central Division</i>																				
Ames	Story	926	49	66.8	- 3.1	95	11†	43	5	41	2.02	- 2.35	1.52	0	7	22	4	4	w.	Iowa State College
Audubon	Audubon	1,297	31	66.2	- 2.1	94	28	44	19†	40	7.71	+ 3.69	3.95	0	10	18	9	3	nw.	George Kibby
Baxter	Jasper	998	26	66.0	- 3.6	92	11†	43	26	37	3.51	- 1.08	1.75	0	8	15	9	6	nw.	Henry Geise
Belle Plaine	Benton	866	36	65.1	- 4.1	93	11	39	5	42	3.76	- 0.59	1.30	0	8	14	12	4	nw.	O. C. Burrows
Boone (near)	Boone	1,134	21	65.1	- 3.9	95	11	37	5	48	2.90	- 1.63	1.64	0	8				se.	C. F. Henning
Carroll	Carroll	1,265	36	67.1	- 1.3	97	12	44	19	39	3.78	- 1.00	1.98	0	9	21	5	4	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	44	65.2	- 6.2	94	11	39	5	42	2.88	- 1.47	1.20	0	9	13	5	12	nw.	J. T. Wurster
Clinton	Clinton	595	53	65.8	- 4.6	94	11	44	26	36	5.04	+ 0.65	1.95	0	8	19	8	3	sw.	Dr. A. P. Bryant
Davenport	Scott	580	55	67.4	- 3.1	92	11	48	26	29	5.13	+ 1.13	2.25	0	9	11	14	5	w.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	1	67.2		94	11	44	3†	39	5.80		2.29	0	9					Rex Shriver
Denison	Crawford	1,171	32	67.0	- 2.1	98	11	42	19	38	4.49	+ 0.40	2.19	0	7	17	7	6	nw.	V. L. Byers
Des Moines	Polk	861	48	67.9	- 2.7	92	28	47	26	32	6.11	+ 1.51	3.94	0	6	11	10	9	w.	U. S. Weather Bureau
Fort Fairfield	Muscatine	567	5	67.0		93	11	45	3†	34	5.56		2.16	0	11	16	7	7	s.	Bureau of Fisheries
Fort Dodge	Webster	1,114	26	65.4	- 3.6	99	28	40	4†	44	1.58	- 2.84	0.56	0	8	22	3	5	s.	Samuel Sampson
Grinnell	Poweshiek	1,031	32	68.2	- 1.4	95	12	45	26	35	3.16	- 1.39	1.42	0	7	6	17	7	nw.	Paul P. Meyers
Grundy Center	Grundy	976	35	66.4c	- 3.3	94c	11	44c	26	35c	2.60	- 2.48	1.05	0	5				nw.	W. G. Heiberger
Guthrie Center	Guthrie	1,077	31	65.0	- 4.0	91	28	43	19	34	4.82	+ 0.36	3.03	0	7	18	7	5	nw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	27	67.6	- 1.5	96	11†	43	26	42	5.48	+ 0.85	4.05	0	10	14	11	5	n.	Gerald L. Larson
Iowa City	Johnson	733	66	65.3	- 3.8	92	11	40	5	40	6.14	+ 1.65	2.89	0	9	17	6	7	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	33	63.8	- 4.1	94	11	40	5†	39	2.10	- 3.36	0.79	0	7	15	9	6	nw.	J. B. Parmelee
Jefferson	Greene	1,052	27	65.6	- 3.6	94	28	42	4	42	5.17	+ 0.97	4.07	0	6	18	4	8	sw.	W. I. Lyon
Le Claire	Scott	576	26								4.84	+ 0.68	1.70	0	10				sw.	Margaret T. Disney
Little Sioux	Harrison	1,040	21	68.6	- 1.5	105	28	43	19†	44	6.23	+ 1.97	2.58	0	10	15	12	3	sw.	H. W. Kerr
Logan†	Harrison	1,035	59	68.0	- 1.8	100	11†	41	19	48	1.81	- 3.37	1.75	0	3	18	6	6	sw.	Mary Jean Stern
Maquoketa	Jackson	692	1	63.4		90	11	37	19	42	4.26		1.78	0	9	19	4	7	w.	John Strothoff
Marshalltown	Marshall	947	34	66.5	- 3.8	94	11	44	5	37	3.15	- 1.42	1.23	0	8					

Climatological Data for June, 1926—Continued

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit							Precipitation, in inches				Number of Days				OBSERVERS	
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy		Prevailing direction
Southern Division																				
Afton	Union	1,212	32	66.5g	- 2.9	91g	28	45g	26	40g	6.31	+ 1.33	2.00	0	7				nw.	S. R. Brown
Albia	Monroe	959	23	67.2	- 3.2	96	12	41	5	39	7.40	+ 3.08	2.33	0	11	16	5	9	nw.	O. E. McBride
Atlantic	Cass	1,164	35	68.0	- 1.4	96	28	44	19	41	3.07	- 1.99	1.65	0	12	9	8	13	nw.	T. H. Whitney
Bonaparte (near)	Van Buren	563	35	66.6	- 3.5	91	11	43	4	35	5.38	+ 1.02	1.52	0	8	22	4	4	sw.	B. R. Vale
Burlington	Des Moines	544	30	68.7	- 3.0	94	11	47	4	30	8.64	+ 4.35	2.30	0	10	17	8	5	sw.	John W. Donnelly
Centerville	Appanoose	1,013	21	66.0	- 4.5	90	11	44	5	34	6.88	+ 2.48	2.22	0	10	19	6	5	nw.	Thomas Wood
Chariton (near)	Lucas	1,042	31	66.5	- 2.3	95	29	46	5	34	7.57	+ 3.19	3.20	0	6	19	8	3	sw.	C. C. Burr
Clarinda	Page	1,009	36	68.3	- 3.1	94	12	46	19	40	4.61	- 0.10	1.60	0	11	13	14	3	nw.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	25	68.5	- 2.2	91	11	51	4	28	8.14	+ 3.84	3.26	0	9	9	10	2	w.	Miss Musa Todd
Corning (near)	Adams	1,117	34	66.3	- 3.2	95	12	41	3	42	6.26	+ 2.13	3.80	0	4	21	4	5	sw.	Jerome Smith
Corydon	Wayne	1,101	33	66.4	- 3.8	92	11	41	5	39	6.44	+ 1.80	2.01	0	7	17	7	6	se.	A. T. Gallagher
Creston	Union	1,312	21	66.8	- 1.9	91	12	43	19	34	8.07	+ 3.12	4.00	0	10	19	4	7	nw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	27								3.18	- 1.14	1.75	0	6	11	9	10	nw.	Carl E. Pollock
Earlham (near)	Madison	1,126	24	66.0	- 2.5	91	28	40	5	44	4.16	- 0.27	1.70	0	7	22	4	4	se.	George Phillips
Fairfield	Jefferson	780	42	66.0	- 3.8	93	11	40	4	45	5.51	+ 0.68	2.32	0	9	14	5	11	n.	R. M. McKenzie
Glenwood	Mills	1,100	28	69.6	- 0.8	98	28	46	19	40	2.69	- 2.18	1.13	0	7	10	17	3	nw.	Dr. George Mogridge
Indianola	Warren	972	35	67.3	- 2.7	90	11	44	26	35	6.74	+ 2.30	4.13	0	7	18	10	2	sw.	Seth F. Shenton
Keokuk	Lee	614	55	68.6	- 3.9	94	11	50	26	29	7.57	+ 3.23	2.93	0	9	9	14	7	w.	U. S. Weather Bureau
Keosauqua	Van Buren	644	34	65.4	- 4.8	89	11	44	9	36	6.69	+ 2.22	2.53	0	9	14	9	7	se.	J. H. Landes
Knoxville	Marion	920	21	66.7	- 3.8	91	11	42	26	40	5.70	+ 1.60	2.40	0	5	20	4	6	nw.	W. J. Casey
Lacona	Warren	824	27								12.09	+ 7.52	7.75	0	9	8	11	11	n.	J. B. Alter
Lamoni	Decatur	1,123	19	67.5	- 2.1	94	12	45	26	35	7.46	+ 2.61	2.08	0	10	17	7	6	ne.	F. S. Parks
Lenox	Taylor	1,250	31	67.4	- 3.4	96	12	45	26	37	6.11	+ 1.94	3.57	0	6	19	8	3	nw.	J. L. Hurley
Mount Ayr	Ringgold	1,245	33	66.8	- 3.2	94	12	44	26	35	7.90	+ 3.16	3.09	0	7	20	5	5	s.	Alex Maxwell
Mt. Pleasant	Henry	729	45	67.4	- 4.2	93	11	45	4	37	9.49	+ 4.46	5.08	0	9	8	16	6	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	7	67.0	- 3.2	95	12	41	5	47	3.68		2.28	0	5	16	2	12	n.	M. E. Gray
Oskaloosa	Makaska	835	50	66.2	- 3.4	91	30	44	5	37	5.56	+ 1.58	2.12	0	7	16	6	8	nw.	Roy R. Robinson
Ottumwa	Wapello	649	31	68.0		92	29	43	5	40	6.82	+ 2.81	1.98	0	9	22	2	6	nw.	C. L. Mikesch
Red Oak (near)	Montgomery	1,030	1								2.81		1.56	0	3	12	17	1	nw.	B. R. Bridge
Riverton (near)	Fremont	920		68.7		94	28	46	26	34	4.77		2.27	0	7	11	10	9	s.	George C. Rader
Sigourney (near)	Keokuk	790	30	66.0	- 3.7	91	30	43	5	42	7.31	+ 3.05	2.25	0	8	18	6	6	nw.	W. E. Utterback
Stockport	Van Buren	747	24	66.2	- 3.5	92	29	40	15	35	6.08	+ 1.59	1.77	0	11	18	5	7	w.	C. L. Beswick
Thurman	Fremont	975	29	70.4	- 1.4	98	12	44	27	41	1.90	- 3.30	1.28	0	3	4	25	1	nw.	C. R. Paul
Tingley	Ringgold	1,275	1	67.4d		94d	12	43d	26	35d	9.60		3.98	0	5				nw.	James A. Verploegh
Washington	Washington	769	44	67.2	- 3.0	92	11	43	5	38	8.00	+ 4.09	2.34	0	10	14	11	5	n.	D. D. Sherman
Wescott (near)	Lee	523	4	68.0b		91d	11	45	4	31d	9.55		2.60	0	7	19	6	5	sw.	Lester J. Larson
Winterset	Madison	1,129	35	67.6	- 2.8	92	28	44	26	36	5.08	+ 0.21	1.88	0	7	20	6	4	nw.	H. S. Ely
Omaha, Neb.		1,103	55	70.6	- 1.0	101	28	50	19	36	2.01	- 3.04	1.32	0	10	15	10	5	nw.	U. S. Weather Bureau
Means and extremes.				67.3	- 2.7	101	28	40	4	47	6.24	+ 1.73	7.75	0	8	15	9	6	nw.	
State means and extremes.				66.2	- 3.1	105	28	32	3	51	4.52	- 0.01	7.75	0	8	16	9	5	nw.	

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.

†Also other dates.

‡Received too late to be included in means and summaries.

T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level)				Relative Humidity, %				Wind				Sunshine				
	Mean	Highest	Date	Lowest	Date	Mean		Date	Total movement	Average hourly velocity		Date		% possible			
						7 a. m.	12 Noon			Miles	From						
Charles City	29.91	30.22	18	29.50	6	70	48	53	22	7	4,895	6.8	26	se.	20	72	+ 4
Davenport	29.92	30.22	19	29.49	14	71	48	54	19	7	5,488	7.6	33	w.	1	65	+ 6
Des Moines	29.90	30.23	18	29.51	6	70	46	47	15	6	5,144	7.1	32	sw.	11	79	+ 12
Dubuque	29.89	30.22	19	29.45	6	71	48	52	23	7	4,835	6.7	38	nw.	11	72	+ 8
Keokuk	29.94	30.20	3	29.53	14	72	49	54	20	8	5,462	7.6	34	nw.	7	80	+ 8
Sioux City	29.91	30.32	18	29.56	13	68	47	45	13	7	8,532	11.8	46	nw.	6	65	+ 2
Omaha, Neb.	29.90	30.27	18	29.49	20	64	44	43	16	6	5,420	7.5	34	nw.	6	77	+ 9
Means and extremes.	29.91					70	47	50				7.9				73	+ 5
Normals and records.	29.93		10th		5th	79		60			7th	7.6			22d	68	
		*30.61	1913	§29.04	1880						13	1926				8.5	w.

*Dubuque. §Omaha. ¶Sioux City. †Local mean time. ‡And other dates.

TEMPERATURE

The mean temperature for the State, as shown by the records of 106 stations, was 66.2°, or 3.1° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 65.0°, or 3.0° lower than the normal; Central, 66.2°, or 3.4° lower than the normal; Southern, 67.3°, or 2.7° lower than the normal. The highest monthly mean was 70.4°, at Thurman, and the lowest was 60.6°, at Postville. The highest temperature reported was 105°, at Little Sioux, on the 28th, and the lowest was 32° at Decorah on the 3rd. The temperature range for the State was 73°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 113 stations, was 4.52 inches, or 0.01 inch less than the normal. By divisions, the averages were as follows: Northern, 2.88 inches, or 1.73 inches less than the normal; Central, 4.44 inches, or 0.02 inch less than the normal; Southern, 6.24 inches, or 1.73 inches more than the normal. The greatest amount, 12.09 inches occurred at Lacona, and the least, 1.05 inches occurred at New Hampton. The greatest amount in 24 consecutive hours, 7.75 inches, occurred at Lacona on the 13th.

(Continued on Page 45)

Daily Precipitation for June, 1926

Stations	Drainage Basin	Day of Month																															Totals	
		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		
<i>Northern Division</i>																																		
Algona	Des Moines										.32		.70			.50						1.55	.12							.10			3.29	
Allison (near)	Cedar									.63		.11	.42	.05		.07																	1.32	
Alta	Raccoon		.02									.18	2.12	.60		.30	.17						.25		.06						T.		3.70	
Alton	Floyd									.06	T.	.15	1.27	.26		.43						T.									.03		2.50	
Belmond	Iowa										.55	.10	.70	.10		.19							.13	.05	.17					T.	T.		1.99	
Britt	Iowa										.03		.70	.11		.18						1.10	.45		T.					.05			2.62	
Charles City ***	Cedar				.01	.02				T.	.76	.02	.23	.03		.08						.08	.02		.01				.02				1.28	
Cherokee	Little Sioux		T.								.09	2.64	.07		.93	.02	T.				.62	.22	.04	.08	.02				.01			4.74		
Decorah	Mississippi	.36				.07					.37	.47	.25		.03															.05			1.60	
Dubuque ***	Mississippi				T.	T.	T.				.80	1.98		.18	.50							T.	T.	.01		.01			.21			3.76		
Estherville	Des Moines	.20									.08	.15	.32	.16	.02	T.	.48					1.10		.35						.08			2.94	
Fayette	Mississippi										2.15	.08	.16	.18		T.														.08			2.65	
Forest City	Mississippi	1.38									.11	.82	.03	1.11		T.		.28				.86	T.	.29		.01				T.			4.89	
Hampton	Cedar										.24		.58	.15		.13						.04											1.14	
Humboldt	Des Moines										T.	.16	1.03	.03		.30							T.	.27	.22								2.01	
Independence	Wapsipinicon	.27			T.						.15	.32	2.04	.62	1.32							.04				T.				T.			4.76	
Inwood	Big Sioux										.10	.29	.08	2.78	.40	T.	.95	.04				T.			.01	.04			.06	.01			4.76	
Lansing	Mississippi	.78				.04		.01			.08	.25	.02	.57	.01	.01	.06													.08			1.90	
Le Mars	Floyd		T.								.04	T.	.05	2.03	.30		.87																3.58	
Mason City	Cedar										.27	.24		.36			.14					1.15		.29		T.							2.50	
Milford (near)	Little Sioux			.10									.60		.50								.07						.23				1.50	
New Hampton	Wapsipinicon										.70		.10	.10		.03							.07	T.				.05					1.05	
Nora Springs	Cedar				.07						T.	.92	.10	.47	.17		.17					.50	.04	.23		.04		.04					2.75	
Northwood	Cedar										.55		.68	.17		.25						.72		.40				.28					3.05	
Oelwein	Wapsipinicon										.10	2.30	.10	.40	.30														.60				3.80	
Osaga	Cedar					.02					.82	.02	.16	.23		.11	.10					1.83	.02			.01			.08				3.40	
Pocahontas	Des Moines										.82	.65	.90			.50							T.						T.				2.87	
Postville	Mississippi	.05				T.	T.				.78	1.05	.20	.08	.20	T.							.13			T.		.33					2.82	
Rock Rapids	Big Sioux										.24	.01	.04	.90	.07	.02	1.18					.06		.16		.16		.13					2.97	
Sanborn	Floyd										T.	T.	.35	.21		.55						.11			.11			.29					1.62	
Sheldon	Floyd										.02	.01	.03	.74	.14		.78						.01		.04		.01		.25					2.03
Sioux Center	Floyd										.42	T.	.06	1.74	.12		.43	T.					.02	.66				.06					3.51	
Spencer	Little Sioux											.95	.73	.54	.44		.02	1.14					.20		.23			.29					3.53	
Storm Lake	Raccoon			.02								.08	2.18	.12		.97	T.					.09	.35	.03				T.					3.26	
Washta	Little Sioux										T.	T.	.17	2.37		1.08	T.					1.85		.23				.02					6.32	
Waterloo	Cedar	.21									.01	.72		.81									.05										1.80	
Waverly	Cedar										2.06		.04	.28	.21		.04						.05			.02							2.70	
West Bend	Des Moines										T.	.10	.82	.03		.58						.70		.25									2.48	
<i>Central Division</i>																																		
Ames	Skunk										.01		.13	1.52	.07		.04					.18			.07					T.			2.02	
Audubon	Nishnabotna		T.	.05							.75		.55	3.95		.04						.04		.06		.03							7.71	
Baxter	Skunk										.26		27	1.75	.65		.10	.14					.18		.16								3.51	
Belle Plaine	Iowa										.20	T.	1.02	1.30	.96		.09						.04	.11		T.	.04						3.76	
Boone	Des Moines	.12									.05	.10	.70	1.64			.03						.18			.08					T.		2.90	
Carroll	Raccoon			T.							.11	.10	.15	1.98	.63		T.	.10				.55		.07					.09				3.78	
Cedar Rapids	Cedar	.32				T.					.09	.90		1.20	.02		.08						.04		.20		.03						2.88	
Clinton	Mississippi										1.95	.73	.54	.44		.02	1.14						.20		.02								5.04	
Davenport ***	Mississippi				T.						.26	1.87	.38	.89	.24		1.25						.15	.02		.07							5.13	
Davenport (No.2)	Mississippi				T.						T.	.27	2.29	1.02	.61		.10	1.22					.21	T.	.05	.03							5.80	
Denison	Missouri											.52	2.19	.12		.09							1.29	.17	.11								4.49	
Des Moines ***	Des Moines		T.			T.					.75	2.63	2.15	.10		.19						.29		T.		T.							6.11	
Fairport	Mississippi	.09									.05	.36	1.42	.58	.58		2.16						.13	.02	.15	.02							5.56	
Fort Dodge	Des Moines	.22										.05	.52	.56		.07	.09						.03		.04								1.58	
Grinnell	Iowa										.36	T.	.27	1.42	.80		.10						.08	T.		.13							3.16	
Grundy Center	Cedar										1.05		1.00	.45		T.							.08	.02			T.						2.60	
Guthrie Center	Raccoon										.33		.20	3.03	.03		.07						.03				T.							4.82
Harlan	Nishnabotna			.05							.10		.04	4.05	.02		.02					.02		.11	.11		.01						5.48	
Iowa City	Iowa	.19									.23	2.88	.25	1.88			.33						.11		.09		.18						6.14	
Iowa Falls	Iowa	.55				T.						.47	.16	.79	T.		.06						.03		.04		T.						2.10	
Jefferson	Raccoon			T.							.12	.23	4.07	.12		.43						T.	.28	T.		T.			.04				5.17	
Le Claire	Mississippi	.08			T.						.27	1.70	.04	.97	.15		1.32						.20		.05		.06						4.84	
Little Sioux	Little Sioux			T.							.11	.70	.03	2.48	.13		.09					2.58		.07	.03								6.23	
Logan	Missouri										.01		1.75																.05					1.81
Maquoketa	Maquoketa										.24	1.78	.17	.51	.77		.67						.06	T.		.03			.03					4.26
Marshalltown	Iowa	.57									T.	.05	.80	.38	1.23	T.	.03	T.					.03			T.	T.	.06					3.15	
Monroe	Des Moines										.77		.74	1.58	.94		.2																	

Daily Precipitation for June, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals	
		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		
<i>Southern Division</i>																																		
Afton	Grand			.13						2.00	1.75		.75	1.10		.55					.03													6.31
Albia	Des Moines	.16	.05							.31	2.02	.14	1.33	1.83	T.	.30	.42			T.	.80		.04	T.									7.40	
Atlantic	Nishnabotna	.02	.07							T.	.45	.07	T.	1.65	.69		.05	.03			.01			.01	.01						.01		3.07	
Bonaparte (near)	Des Moines			.08	T.					.99		1.04	1.52	.62		.15	.72	T.			.26		T.	T.									5.38	
Burlington	Mississippi	.42			T.	T.					.92	2.30	1.46	1.92	.01	T.	.65			T.	.74				.06	.16							8.64	
Centerville	Chariton		.02	.32						1.49		.40	2.22	.45		.41	1.35	T.			.19	.03											6.88	
Chariton (near)	Chariton			.16						1.30		.31	3.20	1.78		T.					.82	T.											7.57	
Clarinda	Nodaway	.12	.37							1.60	.20		.46	.87		.14	.10				.03					.07						.65	4.61	
Columbus Jct.	Iowa			.37						3.50	.01	3.26	2.00	.54		.04	1.70				T.		.07	.02									8.14	
Corning (near)	Nodaway									3.80			1.56	.40		.50			T.		T.												6.26	
Corydon	Chariton			.26						2.01		1.17	.69		1.73						.47		.11								T.		6.44	
Creston	Missouri	.05	.15							2.10	1.90	.05	1.70	1.45		4.0	.20						.07								T.		8.07	
Cumberl'd (near)	Nodaway		T.	.07						2.94		T.	1.75	.12		.15						.15									T.		3.18	
Earlham (near)	Des Moines			.18						.94		.24	1.70	.59		.43	.08				T.	T.									T.		4.16	
Fairfield	Skunk									1.01		.61	1.92	.40		.37	.69				.38			.03	.10								5.51	
Glenwood	Missouri			.10						1.10			1.13	.11		.10										.03				.12			2.69	
Indianola	Des Moines			.04						1.37		.04	4.13	.54		.54						.08											6.74	
Keokuk**	Mississippi									.08		2.33	2.89	.26		1.37		.08			.23			.03	.30								7.57	
Keosauqua	Des Moines		.01	.11						.54		.90	2.07	.46		.68	T.							T.	1.60	.32							6.69	
Knoxville	Des Moines									1.22		.50	2.40	1.10		.48					T.		T.	T.	1.60	.32							5.70	
Lacona	Des Moines			.08						1.75		.25	7.75	1.75		.25	.24				.01	.01											12.09	
Lamoni	Grand	.07	.27							2.08	.09	.01	1.52	1.09		.33	1.59				.41												7.46	
Lenox	Missouri		T.	.28						3.57		.80	1.12		.33						.01	T.											6.11	
Mount Ayr	Grand		T.	.30						3.09		.10	.87	2.11		1.37					.06	T.		T.									7.90	
Mt. Pleasant	Skunk									.75	.05	.86	5.08	.46		1.37					1.65		.06	.43	.15								9.49	
Oakland	Nishnabotna		.15							.99			2.28	.06		.20																	3.68	
Oskaloosa	Des Moines			T.						1.10		.67	2.12	1.07		.38					.13		T.	.09	T.								5.56	
Ottumwa	Des Moines									1.43	.09	.47	1.98	.74		.34	.86				.71				.20								6.82	
Red Oak (near)	Missouri									1.00		1.56											T.	T.									T.	2.81
Riverton (near)	Nishnabotna			.54						1.35			2.27			.02					.53		T.	.05	.01									4.77
Sigourney (near)	Skunk									.98		1.05	2.25	.95		1.67					.18	.04		.19									7.31	
Stockport	Skunk		.06							1.34		1.00	1.77	.31		.06	.64				.55			.04	.31								6.08	
Thurman	Missouri		T.			T.	T.			.48	T.		1.28	T.							.14		T.		T.								1.90	
Tingley	Platt		.17							3.98			1.30	2.94		1.21																		9.60
Washington	Skunk					T.				.78		2.34	2.21	.42		.02	1.67				.22		.12	.04	.18								8.00	
Wescott (near)	Mississippi									.80		2.50	2.60	1.55		.75					.90			.45									9.55	
Winterset	Des Moines			.11						1.44		.21	1.88	.88		.36					.20	T.											5.08	
Omaha, Neb.**	Missouri		.05							.35	T.	.10	1.31	.01		.12		.01			T.		T.	.01	.04						.01		2.01	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.

**Incomplete.

*Precipitation included in the next following measurement.

T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 43)

MISCELLANEOUS PHENOMENA

- Aurora: 1st, 2nd, 7th, 8th.
- Fog: 3rd.
- Frost: 3rd, 26th.
- Hail: 10th, 11th, 12th, 13th, 16th, 20th, 22nd, 24th, 25th, 29th, 30th.
- Halos: (lunar and solar): 5th, 15th, 18th, 21st,
- Haze: 1st, 20th.
- Rainbows: 11th, 17th, 24th, 30th.
- Storms (dust): 1st, 5th, 6th, 7th, 8th, 17th, 21st, 22nd.
- Thunderstorms: 2nd, 3rd, 5th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 29th.
- Tornado: 16th.

RIVERS

Low stages prevailed on the Mississippi River, with very little fluctuation, the heavy rains on the 11th and 13th affecting the stage very little except in the extreme lower course. Low and nearly stationary stages also prevailed on the Missouri River, the extreme for the entire month not exceeding two feet. High stages were produced on the interior rivers following the heavy rains on the 13th over most of the central and southern divisions. High stages prevailed on the Raccoon River and most of its tributaries were out of bank flooding many thousand acres of bottom land. The Des Moines River reached flood stage southward from Ottumwa and nearly all streams in the South-central and the eastern portion of the southwestern divisions were out of banks. Small streams in Dallas and the western portions of Polk Counties were reported the highest ever known.

EXCESSIVE RAINFALL AT PERRY AND LACONA

Perry, Iowa, on June 12th-13th and Lacona, Iowa on the 13th were centers of the most intense rainstorm that has visited the State in nearly 14 years. Beginning at 6:30 P. M., of the 12th, 7.57 inches fell at Perry in the next 19½ hours ending at 2 P. M.

of the 13th. The official cooperative observer at Perry, Mr. Eugene N. Hastie, is deserving of special commendation in that he took measurements of the rainfall at frequent intervals through the night.

Details of the Storm at Perry

Date	Hour	Amount Measured	Rate per Hour	Accumulated Amounts
12th	7 P. M.	0.64	1.28	0.64
	9 P. M.	2.47	1.24	3.11
	11 P. M.	1.22	0.61	4.33
13th	1 A. M.	0.85	0.42	5.18
	5 A. M.	0.25	0.06	5.43
	10 A. M.	0.94	0.19	6.37
	2 P. M.	1.20	0.30	7.57

While there have been rainstorms of greater intensity for shorter periods of time at this station, such a large total in the same number of hours has never before been recorded in the nearly 26 years of record. In 1907, 2.24 inches fell in 1 hour on October 2; and 3.84 inches fell in 2 hours on August 28. On June 24th-25th, 1909, 6.00 inches fell in 9 hours.

If the soil had contained the normal amount of moisture just prior to June 12th, this unprecedented rain associated as it was with excessive rains throughout the drainage basin of the Raccoon River, would have caused a serious flood in the lower river. But the storage capacity of the drainage basin was at the maximum, due to deficient precipitation generally for several months and the rain while unprecedented in amount was spread over a relatively large number of hours, which afforded better than the usual opportunity for it to soak and settle into the ground. Corn fields which constitute a large per cent of the drainage basin were well cultivated and unusually receptive.

At Lacona 7.75 inches of rain fell in 17 hours indicating slightly greater intensity for short periods, than at Perry. Detailed measurements are not available but the flood results indicate great intensity.

Daily Maximum and Minimum Temperature for the Month of June, 1926

Table with columns for Stations, days 1-31, and Mean. Rows are categorized by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

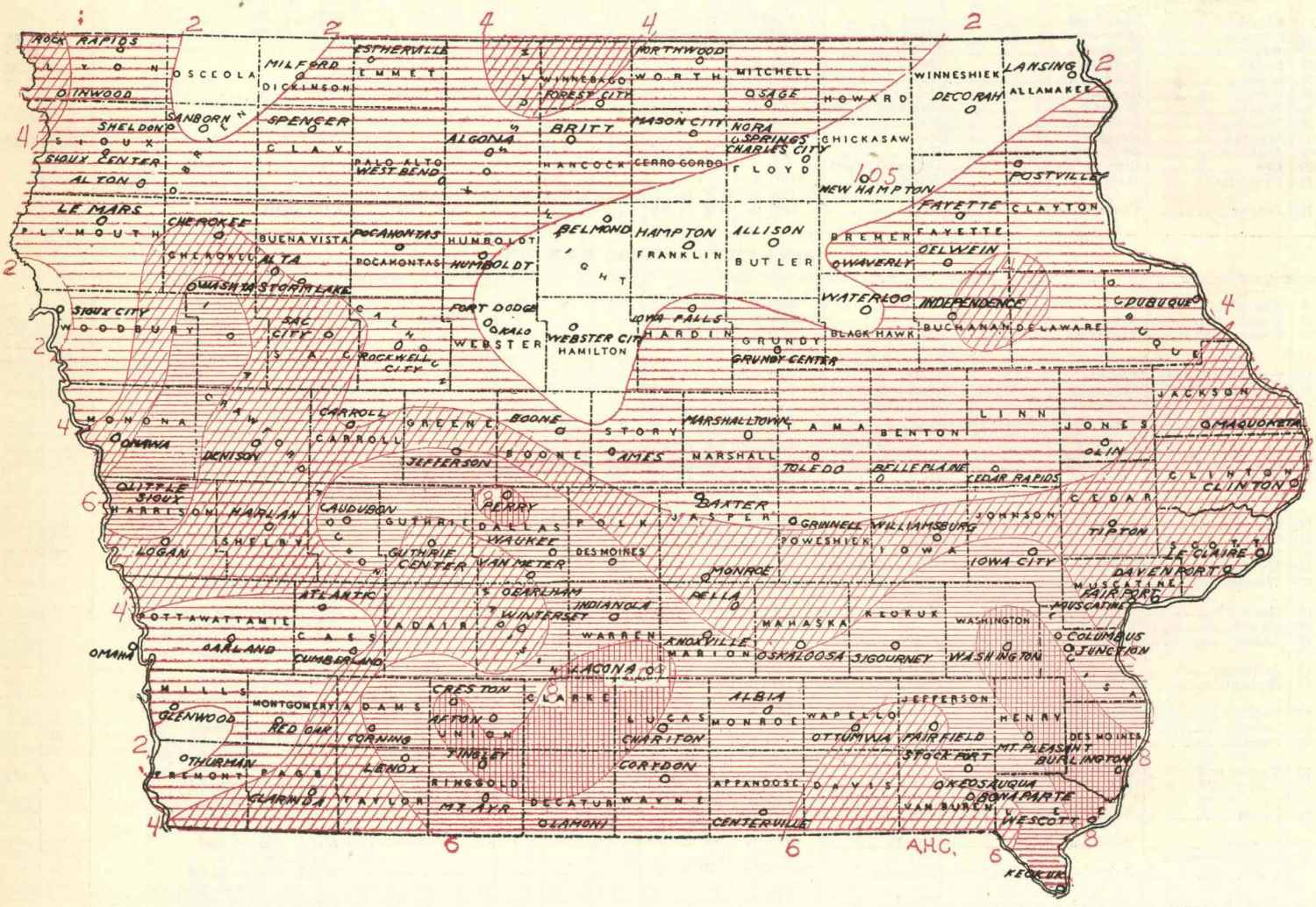
IOWA STORMS DURING MAY, 1926

Date	County	Township	Nature of Storm	Time	Storm Moved From	Width of Path Miles	Length of Path Miles	Area Sq. Miles	Size of Hailstones Inches	DAMAGE	Persons	
											Injured	Killed
17	Jones	Richland	Hail						1 1/2	None		
20	Washington	Brighton	Hail	5:30 p.	NW to SE				Sparrow eggs	None		
22	Buchanan	Buffalo	Hail	3:00 p.	S to N	3	6	18	Hickory nuts	Crops \$500		
24	Buchanan	Madison	Hail	3:00 p.	W to E							
24	Buchanan	Middlefield	Hail	2:00 p.	SE to NW				Robin eggs	Slight		
24	Cerro Gordo	Daugherty	Hail and Wind	2:00 p.	SW to NE	3	7	21	1			
24	Cerro Gordo	Mason City	Hail						Largest 1"			
24	Floyd	Rock Grove	Wind	1:00 a.	SW to NE	2	6	12		Bldgs. \$10,000		
24	Iowa	Iowa	Wind	7:00 p.						Bldgs. \$ 2,000		
24	Bremer	Warren	Hail	2:00 p.	SW to NE	4	6	24	1	Broke windows		
24	Jackson	Richland	Hail	4:00 p.	SW to NE	2	6	12	Walnuts	None		
24	Mitchell	Cedar	Wind	1:00 a.	SW to NE					Bldgs. \$2,000		
24	Polk	Jefferson	Hail and Wind	4:00 p.	NW to SE			3	1/2 to 3/8"			
24	Worth	Deer Creek	Hail	3:30 p.	SW to NE				Largest 3/8"			
24	Worth	Lincoln	Wind	1:00 a.	SW to NE							
25	Bremer	Maxfield	Hail and Flood	3:00 p.	W to E	2	7	14	1/2"	Bldgs. \$800		
										Crops, hail \$200		
										flood \$350		
25	Floyd	Rockford	Wind	Night	W to SE		6			Bldgs. \$ 300		
26	Lucas	Warren	Wind	6:00 p.	E to W	6	6	36		Bldgs. \$1,000		
26	Appanoose	Walnut	Hail	5:30 p.	NW to SE				1/4"	None		
26	Iowa	Troy	Hail	5:30 p.						None		
26	Iowa	Pilot	Hail	5:30 p.						None		
26	Iowa	Greene	Hail	5:00 p.						None		
26	Wayne	Wright	Hail and Wind	6:00 p.	SW to NE	6	6	36	1/2"	Bldgs.; wind \$1,000	1	
26	Woodbury	Liston	Hail	4:30 p.	NW to SE	2	3	6	Pea to marble			
27	Monroe	Urbana	Hail	4:00 p.		1	4	6		Gardens		
29	Jackson	Richland	Hail	5:00 p.	NW to SE	2	3	6	Hickory nuts			
29	Lee	City of Keokuk	Hail and Wind							Bldgs. blown down		
31	Franklin	Morgan	Wind	10:00 a. & 4:00 p.	NW to SE			8				
31	Jasper	Clear Creek	Hail	2:00 p.	NW to SE				Very small	Crops several thousand dollars		
										Very little		

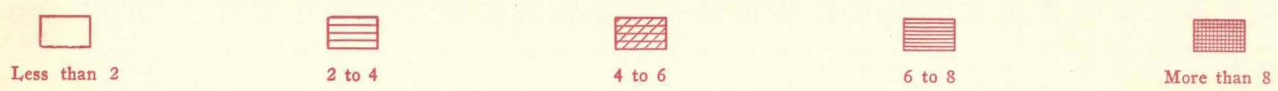
IOWA STORMS DURING JUNE, 1926

1	Kossuth	Lotts Creek	Wind	9:00 a.	NW to SE	6	6	36		Crops, Wind, 25%		
10	Pocahontas	Grant	Hail	3:30 p.	SW to NE			2	Marbles			
10	Pocahontas	Sherman	Hail and Wind	3:30 p.	SW to NE			3	Marbles	Bldgs., Wind, \$500		
										Crops, Hail, \$30,000		
										Livestock, Hail \$1,000		
10	Pocahontas	Lincoln	Hail	3:40 p.	S to N			1	Marbles			
11	Bremer	Maxfield	Hail and Wind	3:00 p.	NW to SE	6	6	36	Peas	Crops, Hail \$1,200		
11	Buchanan	Fairbank	Hail and Wind	3:15 p.	NW to SE					Damage by Water		
11	Hancock	Twin Lake, Liberty	Hail	3:00 p.	NW to SE	1 1/2	9	13	Goose Eggs	Hail, Bldgs. \$10,000		
										Crops \$50,000		
11	Ida	Galva	Hail and Wind	7:00 p.	W to E	4	6	24	Walnuts	Hail, Crops \$10,000		
11	Pocahontas	Cummins	Hail	9:30 p.	SW to NE		6		3/4" Dia.	Hail, Crops, slight		
11	Wright	Belmond, Norway	Hail	3:00 p.	NW to SE			2	Walnuts	Hail, Crops, considerable		
12	Dallas	Spring Valley	Hail	8:00 p.	E to W				Marbles	Hail, Crops \$3,000		1
										Lightning, Bldgs. \$4,000		
12	Green	Jackson	Hail	7:30 p.	W to E				Walnuts			
12	Iowa	English	Hail	10:00 p.	NE to SW	1	4	4	Marbles	Hail, Crops, some		
12	Madison	Penn	Hail	11:00 p.	W to E	2	6	12	Peas	Hail, Gardens, some		
12	Monona	Willow	Hail and Wind	10:15 p.	SW to NE	1	6	6	1/2	Hail, Crops, some		
12	Winneshiek	Lincoln, Orleans	Hail and Wind	9:00 p.	N to S	1	4	4		Hail, Crops \$1,100		
										Wind, Bldgs. \$275		
13	Hancock	Twin Lake, Avery	Hail	6:30 p.	SW to NE	1	7	7	Goose Eggs	Hail, Roofs and Grain, some		
13	Henry	Trenton	Flood							Flood, Crops, \$8,000		
13	Lucas	Cedar	Flood			6	6	36		Flood, Bldgs. \$5,000		
										Lightning, Bldgs. \$3,000		
13	Jefferson	Round Prairie	Hail and Wind	2:00 a.	NE to SW				Peas			
13	Wright	Pleasant	Hail	4:00 p.	NW to SE	2	5	10	Marbles	Hail, Crops, \$2,000		
										Windows and Roofs, some		
13	Polk	Western Part	Rain and Hail	12:01 a.				50		Hail, Crops, \$50,000		
13	Dallas	Vicinity, Perry	Rain	a. m.						Flood, considerable		
16	Page	Town of Clarinda	Tornado	3:00 p.	SW to NE	75yds.	6			Tornado, Bldgs. \$200,000	24	2
										Crops \$ 50,000		
16	Taylor and Ringgold	Jefferson, Middlefork and Clinton	Tornado	3:30 p.	SW to NE	1/4	7	2	Small	Tornado, Bldgs. \$ 90,000	5	0
										Crops \$ 25,000		
20	Jones	All of County	Wind	11:30 p.						Wind, Bldgs. \$500,		
										small grain, some		
20	Kossuth	German	Wind	9:00 p.	SW to NE	1 1/2	3	4		Wind, Bldgs. and		
20	Pottawattamie and Cass	Brighton and Layton	Tornado	7:30-8:00 p.	W to E	1/4				Poultry, some		
										Wind, Bldgs. \$2,000		
										Crops \$50		
20	Shelby	Douglas	Flood	7:00 p.						Flood, Fences and Culverts,		
										some, 40 hogs killed		
24	Henry	Jackson	Hail	4:00 p.	W to E				Hickory Nuts	Hail, Crops, some		
24	Johnson	Madison	Hail	7:30 p.	W to E	4	5 1/2	22	1	Hail, Crops, some		
24	Van Buren	Van Buren	Hail	8:30 p.	NW to SE	1	7	7	Marbles	Hail, Crops, slight		

TOTAL PRECIPITATION, JUNE, 1926



SCALE OF SHADES IN INCHES



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, JULY, 1926 No. 7

GENERAL SUMMARY

The mean temperature for the State averaged one degree above normal and was uniform over each division, but there was the same contrast between the eastern and western portions that has existed for several months. The western portion was decidedly the warmer with a general excess that exceeded three degrees at two stations while several stations in the eastern portion had a deficiency that exceeded one degree at two stations. Temperature extremes were quite marked. During the last 54 years only three times has the maximum been higher, twice has the minimum been lower and once has the monthly range been greater in July. There were numerous fluctuations in temperature but they were more frequent over the eastern portion of the State. During the third week temperatures of 100 degrees or higher occurred over most of the State, but particularly in the northern division where the number of stations reporting 100 degrees or higher was considerably larger than the combined number in the central and southern divisions. At Inwood, Lyon County, readings of 109 degrees were recorded on the 19th and 20th.

Though for the State as a whole the precipitation averaged only slightly below normal, there was a decided deficiency over practically the entire western half. However, several stations in the western half had excesses, while over the eastern half there was a general excess but with several stations showing deficiencies. More than 75 per cent of the precipitation occurred on the first three and last four days. Only a few scattered showers occurred from the 10th to 21st and a rather severe drouth developed in areas in the western portion of the State. The drouth was aggravated by high temperatures and hot winds from the 16th to the 20th. Conditions were most severe in the southwest and extreme northwest portions. Much upland corn in these areas was permanently injured before the drouth was completely broken at the end of the month. Hail storms were numerous but there was only one that was unusually severe. This storm occurred in Calhoun and Webster Counties during the night of the 27th. About 120 square miles in seven townships were affected. Crops were damaged to the extent of \$640,000 and much window glass was destroyed. The total damage from hail ex-

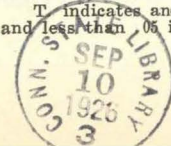
ceeded \$1,000,000 to crops as well as minor damage to livestock. There was also some minor damage to livestock on account of lightning. There was some damage from floods in the northeastern portion of the State due to locally heavy rains in the Maquoketa River basin. The principal damage resulted to a huge dam that is being constructed near Delhi.

F. L. D.

COMPARATIVE DATA FOR THE STATE—JULY

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre-.01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	74.0	+ 0.2	96	54	2.78	- 1.07	7.73	0.85					
1874.....	77.8	+ 4.0	101	56	3.04	- 0.81	6.15	0.55					
1875.....	72.8	- 1.0	97	56	6.05	+ 2.20	9.70	1.60					
1876.....	74.2	+ 0.4	95	54	6.15	+ 2.30	11.92	1.84					
1877.....	74.0	+ 0.2	97	54	2.35	+ 1.50	7.58	0.38					
1878.....	76.5	+ 2.7	104	52	5.13	+ 1.28	13.20	0.90					
1879.....	76.0	+ 2.2	102	55	2.20	+ 1.65	8.66	0.00					
1880.....	73.8	0.0	98	48	4.16	+ 0.31	10.40	1.30					
1881.....	75.9	+ 2.1	100	50	5.33	+ 1.48	16.31	0.28					
1882.....	69.1	- 4.7	94	46	3.66	- 0.19	7.30	0.85					
1883.....	72.9	- 0.9	100	46	5.14	+ 1.29	13.99	1.26					
1884.....	71.0	- 2.8	96	50	5.41	+ 1.56	11.51	0.70					
1885.....	74.6	+ 0.8	102	48	4.73	+ 0.88	11.45	0.68					
1886.....	76.2	+ 2.4	103	48	0.50	- 3.35	2.20	0.00					
1887.....	77.0	+ 3.2	105	45	2.85	- 1.00	8.43	0.87					
1888.....	75.9	+ 2.1	103	38	4.31	+ 0.46	8.45	1.17					
1889.....	72.6	- 1.2	102	40	4.00	- 0.15	8.25	1.15					
1890.....	75.2	+ 1.4	110	45	2.04	- 1.51	6.16	0.06					
1891.....	68.5	- 5.3	99	41	4.22	+ 0.37	8.20	1.67		8	13	13	5
1892.....	73.0	0.8	104	38	5.29	+ 1.44	12.86	1.71		9	16	10	2
1893.....	75.0	+ 1.2	102	47	3.33	- 0.52	8.84	1.49		7	19	10	2
1894.....	76.4	+ 2.6	109	39	0.63	- 3.22	3.50	T.		3	22	8	1
1895.....	72.1	- 1.7	104	35	3.40	- 0.45	10.10	0.45		7	15	12	4
1896.....	73.6	+ 0.2	104	42	6.90	+ 3.05	12.67	1.61		9	14	11	6
1897.....	75.6	+ 1.8	106	42	3.26	- 0.59	7.60	1.01		6	18	10	3
1898.....	73.4	- 0.4	102	42	2.98	- 0.87	12.88	0.55		7	19	9	3
1899.....	73.1	- 0.7	101	38	3.07	- 0.78	8.66	0.42		7	16	10	5
1900.....	73.4	- 0.4	102	37	6.15	+ 2.30	18.45	1.80		9	16	10	5
1901.....	82.4	+ 8.6	113	46	2.34	- 1.51	5.97	0.27		5	21	9	1
1902.....	73.1	- 0.7	99	41	8.67	+ 4.82	13.57	4.82		13	14	10	7
1903.....	72.9	- 0.9	100	40	4.83	+ 0.98	12.72	0.94		9	17	9	5
1904.....	70.6	- 3.2	100	38	4.41	+ 0.56	11.97	1.28		10	16	9	6
1905.....	70.6	- 3.2	102	40	2.91	- 0.94	7.08	0.69		9	14	10	7
1906.....	70.9	- 2.9	102	42	3.04	- 0.81	7.05	0.26		8	18	10	3
1907.....	73.7	- 0.1	102	41	7.27	+ 3.42	13.66	3.97		13	16	11	4
1908.....	73.0	- 0.8	100	42	3.66	- 0.19	9.21	0.70		8	16	10	5
1909.....	72.3	- 1.5	102	46	4.77	+ 0.92	12.20	1.20		10	15	8	8
1910.....	74.5	+ 0.7	108	43	1.86	- 1.99	5.69	0.12		7	19	8	4
1911.....	75.5	+ 1.7	111	38	2.27	- 1.58	6.62	0.08		7	18	10	3
1912.....	74.6	+ 0.8	103	38	3.71	- 0.14	7.56	1.17		10	17	10	4
1913.....	76.1	+ 2.3	108	45	1.82	- 2.03	6.23	T.		5	21	8	2
1914.....	76.6	+ 2.8	109	43	2.27	- 1.58	6.50	0.44		5	20	8	3
1915.....	69.5	- 4.3	92	40	8.32	+ 4.47	15.83	3.68		14	10	12	9
1916.....	79.7	+ 5.9	105	48	1.78	- 2.07	6.87	0.10		5	23	7	1
1917.....	74.3	+ 0.5	106	38	2.27	- 1.58	6.06	0.23		7	21	8	2
1918.....	73.1	- 0.7	105	40	3.17	- 0.68	8.05	0.26		8	19	8	4
1919.....	77.4	+ 3.6	104	41	2.86	- 0.99	7.82	0.39		6	22	8	1
1920.....	72.3	- 1.5	102	45	4.22	+ 0.37	7.49	1.11		9	19	9	3
1921.....	77.9	+ 4.1	104	41	2.53	- 1.32	7.45	0.42		7	19	9	3
1922.....	71.5	- 2.3	98	40	6.31	+ 2.46	11.72	3.13		11	14	12	5
1923.....	76.5	+ 2.7	102	47	1.75	- 2.10	5.54	0.29		5	19	9	3
1924.....	70.2	- 3.6	99	41	3.67	- 0.18	8.90	0.57		8	19	11	4
1925.....	74.1	+ 0.3	105	40	2.66	- 1.19	7.93	0.80		8	19	10	2
1926.....	74.8	+ 1.0	109	38	3.72	- 0.13	9.08	0.82		10	15	10	6

T indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for July, 1926

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit						Precipitation, in inches				Number of Days				OBSERVERS		
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy		Cloudy	Prevailing direction of wind
<i>Northern Division</i>																				
Algona	Kossuth	1,213	53	74.6	+ 1.6	104	20	44	13	41	2.81	- 0.25	1.45	0	5	26	2	3	se.	W. E. Laird
Allison (near)	Butler	1,044	14	73.2	+ 0.4	104	20	44	13	35	5.32	+ 1.57	1.88	0	11	14	9	8	se.	J. A. Bell
Alta	Buena Vista	1,513	35	74.4	+ 2.0	101	20	47	13	34	2.57	- 1.68	0.93	0	10	11	15	5	s.	D. E. Hadden
Alton	Sioux	1,305	21	75.2	+ 1.7	105	19†	43	13	42	2.88	- 0.66	1.11	0	8	11	16	4	ne.	W. S. Slagle
Belmond	Wright	1,181	16	74.2	+ 0.6	104	20	41	14	42	3.39	- 0.23	1.22	0	9	5	12	14	sw.	H. F. Luick
Britt	Hancock	1,236	39	72.4	+ 1.2	102	20	43	13	44	3.37	- 0.61	1.42	0	8	15	13	3	se.	James S. Ross
Charles City	Floyd	1,015	35	72.8	+ 0.5	102	20	46	14	35	6.07	+ 2.23	2.23	0	12	13	11	7	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	4	72.8	.....	100	20	42	13	39	3.50	.....	1.09	0	13	14	14	3	s.	J. E. Wirth
Decorah	Winneshek	875	33	70.9	- 1.3	102	20	38	14	43	3.09	- 0.96	0.84	0	11	18	6	7	nw.	M. D. Whitney
Dubuque	Dubuque	698	53	73.2	- 0.9	97	20	51	14	26	5.89	+ 2.02	1.72	0	14	7	13	11	s.	U. S. Weather Bureau
Estherville	Emmet	1,298	31	75.4	+ 3.5	104	20	45	13	38	2.32	- 1.84	0.60	0	11	14	12	5	sw.	A. O. Peterson
Fayette	Fayette	1,003	38	73.2	+ 1.3	102	20	42	13†	40	6.69	+ 2.86	3.85	0	13	21	7	3	s.	R. Z. Latimer
Forest City	Winnebago	1,226	32	73.1	+ 0.9	103	20	43	13	36	2.87	- 0.70	0.59	0	11	11	13	7	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	1	72.7	- 1.6	101	20	45	13†	35	3.14	- 0.51	1.23	0	10	18	8	5	sw.	L. H. Davis
Humboldt	Humboldt	1,095	38	75.0	+ 0.9	106	20	45	11†	42	2.99	- 0.75	1.23	0	7	13	13	5	sw.	H. C. Snitkey
Independence	Buchanan	921	62	74.2	+ 1.2	102	21	47	13	31	4.03	- 0.11	1.11	0	11	19	4	8	se.	Dr. George Boody
Inwood	Lyon	1,474	22	75.7	+ 3.1	109	19†	40	13	50	2.74	- 0.63	1.70	0	7	17	8	6	sw.	A. C. Hanson
Lansing	Allamakee	632	19	.....	.....	.....	.....	.....	.....	.....	3.70	- 0.33	2.07	0	11	.....	.....	.....	.....	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	30	75.4	+ 2.1	107	19†	43	13	42	3.79	- 0.29	1.43	0	11	23	6	2	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	29	72.7	+ 0.3	104	20	40	13	41	3.81	+ 0.29	1.61	0	10	6	22	3	sw.	American Beet Sugar Co.
Milford (near)	Dickinson	1,430	6	.....	.....	.....	.....	.....	.....	.....	5.61	.....	2.20	0	8	13	12	6	sw.	Leslie E. Douglas
New Hampton	Chickasaw	1,169	29	73.8	+ 1.6	104	20	45	13	35	4.12	+ 0.35	2.00	0	11	13	16	2	s.	E. J. Feuling
Nora Springs	Floyd	1,064	14	73.0	- 0.6	102	19†	43	14	40	3.88	+ 0.08	0.88	0	14	16	8	7	s.	Arthur Betts
Northwood	Worth	1,222	30	71.4a	+ 0.2	100a	20	42a	13	36a	6.18	+ 2.35	2.25	0	11	7	16	8	se.	Charles Dwelle
Oelwein	Fayette	1,036	2	72.6	.....	100	20	46	14	32	6.80	.....	2.15	0	9	16	7	8	s.	John T. Ridler
Osage	Mitchell	1,163	1	72.4	.....	102	20	43	13†	38	4.90	.....	1.93	0	12	10	10	11	se.	Geo. H. Munger
Pocahontas	Pocahontas	1,248	22	75.0	+ 2.3	104	19†	44	13	40	1.88	- 2.07	0.65	0	8	17	12	2	se.	F. E. Hronek
Postville	Clayton	1,180	27	69.6	- 0.4	97	20	40	13	35	4.78	+ 0.39	1.99	0	11	5	20	6	sw.	F. L. Williams
Rock Rapids	Lyon	1,358	27	75.2	+ 2.6	106	19†	41	13	46	2.80	- 0.57	1.60	0	8	21	10	0	nw.	J. K. Medberry
Sanborn	O'Brien	1,553	12	74.6	+ 1.8	106	20	43	13	43	4.01	+ 0.51	2.76	0	9	16	3	12	se.	J. W. Dow
Sheldon	O'Brien	1,418	1	75.6	.....	106	20	43	13	43	3.09	.....	1.90	0	15	12	14	5	ne.	Ross E. Forward
Sioux Center	Sioux	1,426	27	74.6	+ 1.6	106	20	45	13	42	3.79	- 0.04	2.90	0	7	12	8	11	s.	J. De Ruyter
Spencer	Clay	1,319	12	74.8	+ 1.4	104	20	45	13	41	6.45	+ 2.95	2.60	0	11	12	10	9	ne.	E. W. Little
Storm Lake	Buena Vista	1,440	37	74.6	+ 1.1	100	20	46	13	33	2.07	- 2.00	0.95	0	11	23	3	5	e.	George H. Fracker
Washta	Cherokee	1,157	28	74.4	+ 2.1	103	20	43	13	40	3.10	- 1.13	1.04	0	12	16	9	6	n.	H. L. Felter
Waterloo	Black Hawk	854	43	74.7	+ 1.0	103	20	44	14	39	4.16	+ 0.18	1.29	0	11	17	8	6	se.	R. B. Slippery
Waverly	Bremer	936	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. H. Murphy
West Bend	Palo Alto	1,197	33	73.9	+ 0.7	103	20	42	13	42	3.95	+ 0.48	1.80	0	8	14	13	4	sw.	Jos. Dorweiler
Means and extremes				73.8	+ 1.1	109	19†	38	14	50	3.90	+ 0.11	3.85	0	10	14	10	7	se.	
<i>Central Division</i>																				
Ames	Story	926	49	76.3	+ 2.3	100	19†	49	13	34	4.91	+ 1.05	1.47	0	10	12	12	7	se.	Iowa State College
Audubon	Audubon	1,297	31	74.2	+ 1.5	99	19†	44	13	37	2.41	- 1.26	0.85	0	6	16	13	2	sw.	George Kibby
Baxter	Jasper	998	26	74.4	+ 0.2	100	20	45a	13	34a	3.76	- 0.13	1.90	0	10	12	16	3	sw.	Henry Geise
Belle Plaine	Benton	866	36	74.1	+ 0.6	101	20	44	14	37	4.40	+ 0.45	1.18	0	12	12	11	8	sw.	O. C. Burrows
Boone (near)	Boone	1,134	21	74.2	+ 0.7	101	20	43	11†	42	3.53	- 0.19	1.81	0	8	.....	.....	.....	.....	C. F. Henning
Carroll	Carroll	1,265	36	75.6	+ 2.4	102	20	45	13	39	2.35	- 1.23	0.90	0	8	20	10	1	se.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	44	75.4	- 0.5	100	20	49	14	36	4.07	+ 0.17	1.30	0	11	8	7	16	sw.	J. T. Wurster
Clinton	Clinton	595	53	74.2	- 0.6	97	20†	47	14	33	9.08	+ 5.19	4.88	0	9	17	8	6	ne.	Dr. A. P. Bryant
Davenport	Scott	580	55	75.7	+ 0.4	96	20	53	14	28	2.98	- 0.51	0.90	0	10	8	14	9	e.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	1	76.0	.....	99	19	48	14	35	2.83	.....	1.10	0	9	.....	.....	.....	.....	Rex Shriver
Denison	Crawford	1,171	32	74.8	+ 1.4	100	20	47	11†	36	3.36	- 0.39	1.19	0	5	14	12	5	se.	V. L. Byers
Des Moines	Polk	861	48	76.2	+ 0.8	98	20	54	13	29	3.69	+ 0.08	1.55	0	10	7	8	16	sw.	U. S. Weather Bureau
Fairport	Muscatine	567	5	75.6	.....	95	21	49	14	30	3.99	.....	1.62	0	12	12	2	17	s.	Bureau of Fisheries
Fort Dodge	Webster	1,114	26	74.8	+ 0.8	104	20	44	11	43	2.65	- 1.26	0.80	0	9	19	4	8	s.	Samuel Sampson
Grinnell	Poweshiek	1,031	32	75.6	+ 1.3	99	20	50	13	29	4.86	+ 0.49	2.25	0	9	17	10	4	se.	Paul P. Meyers
Grundy Center	Grundy	976	35	73.7	- 0.4	99	19†	47	13	39	4.31	+ 0.58	1.47	0	12	15	13	3	sw.	W. G. Heiberger
Guthrie Center	Guthrie	1,077	31	73.4	- 0.2	96	20†	46	13	35	1.87	- 2.35	0.66	0	9	14	11	6	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	27	75.2	+ 2.1	100	20	47	13	37	2.26	- 1.62	1.14	0	7	16	10	5	s.	Walter Bell
Iowa City	Johnson	733	66	74.8	+ 1.0	99	20	44	14	36	4.31	+ 0.19	2.07	0	10	12	9	10	se.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	33	73.4	+ 1.1	99	20	41	14	39	1.97	- 1.97	1.13	0	10	.....	.....	.....	.....	Mary F. Parmelee
Jefferson	Greene	1,052	27	74.4	+ 1.1	100	20	45	13	36	2.01	- 1.67	0.78	0	6	12	12	7	sw.	W. I. Lyon
Le Claire	Scott	576	26	.....	.....	.....	.....	.....	.....	.....	5.54	+ 2.01	1.92	0	8	.....	.....	.....	.....	Margaret T. Disney
Little Sioux	Harrison	1,040	21	77.2	+ 2.8	102	20	46	13	39	2.11	- 2.09	0.67	0	10	8	20	3	sw.	H. W. Kerr
Logan	Harrison	1,035	59	75.6	+ 1.4	102	20	48	11†	39	2.38	- 2.03	0.84	0	4	21	5	5	sw.	Mary Jean Stern
Maquoketa	Jackson	692	1	71.8	.....	97	19	43	14	36	6.13	.....							

Climatological Data for July, 1926—Continued

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit							Precipitation, in inches				Number of Days				OBSERVERS	
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy		Prevailing direction
<i>Southern Division</i>																				
Afton	Union	1,212	32	75.8	+ 2.0	101	29	50	13†	36	3.76	- 0.21	1.40	0	11			sw.	S. R. Brown	
Albia	Monroe	956	28	75.8	+ 1.3	95	2†	50	13	32	4.38	+ 0.24	1.30	0	8	13	9	9	sw.	O. E. McBride
Atlantic	Cass	1,164	35	76.8	+ 2.6	102	20	49	11	38	1.71	- 1.83	0.62	0	8	10	13	8	sw.	T. H. Whitney
Bonaparte (near)	Van Buren	563	35	75.5	+ 1.1	94	20	49	14	31	4.72	+ 0.86	0.97	0	6	22	6	3	sw.	B. R. Vale
Burlington	Des Moines	544	30	77.0	+ 1.0	98	2	53	14	33	3.04	- 0.37	1.12	0	8	20	7	4	sw.	John W. Donnelly
Centerville	Appanoose	1,013	21	75.0	+ 0.1	97	2	49	14	30	2.53	- 1.40	0.62	0	13	12	13	6	sw.	Thomas Wood
Chariton (near)	Chariton	1,042	31	75.0	+ 1.7	96	20	51	11†	30	3.03	- 1.28	0.64	0	8	10	17	4	sw.	C. C. Burr
Clarinda	Page	1,009	36	74.5	- 1.0	95	20†	50	11	35	5.57	+ 1.24	1.30	0	12	18	13	0	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	25																	Miss Musa Todd
Corning (near)	Adams	1,117	34	74.8	+ 0.7	98	29	46	12	40	2.76	- 1.37	1.35	0	3	20	7	4	sw.	Jerome Smith
Corydon	Wayne	1,101	33																	
Creston	Union	1,312	21	74.9	+ 1.5	98	29	51	11†	31	5.10	+ 1.10	1.71	0	11	19	10	2	sw.	A. T. Gallagher
Cumberland (near)	Cass	1,225	27																	J. W. Goodsell
Earlham (near)	Madison	1,126	24	75.4	+ 2.6	98	20	46	11†	40	2.61	- 1.05	1.25	0	8	17	7	7	sw.	Carl E. Pollock
Fairfield	Jefferson	780	42	75.2a	+ 0.8	98	20	46b	14	35b	5.04	+ 1.82	1.44	0	6	15	7	9	n.	George Phillips
Glenwood	Mills	1,100	28	77.6	+ 2.3	102	19†	50	11	36	2.70	- 0.90	1.15	0	7	9	21	1	se.	R. M. McKenzie
Indianola	Warren	972	35	75.9	+ 1.1	98	20	51	13†	31	2.80	- 0.99	1.33	0	10	13	15	3	sw.	Dr. George Mogridge
Keokuk	Lee	614	55	77.4	+ 0.5	96	2	53	14	26	2.77	- 1.08	1.04	0	9	10	11	10	sw.	Seth F. Shenton
Keosauqua	Van Buren	644	34	74.3	- 0.4	96	20	44	14	36	6.13	+ 2.14	1.50	0	8	12	12	7	sw.	J. S. Weather Bureau
Knoxville	Marion	920	31	75.3	+ 0.8	98	20	48	14	34	4.33	+ 0.36	1.80	0	11	14	10	7	sw.	J. H. Landes
Lacona	Warren	824	27								1.80	- 1.98	0.70	0	8	12	11	8		W. J. Casey
Lamoni	Decatur	1,123	19	75.0	+ 1.1	96	20†	50	14	33	2.36	- 1.58	0.80	0	11	15	10	6	ne.	J. B. Alter
Lenox	Taylor	1,250	31	76.0	+ 0.9	99	29	50	13	34	1.68	- 2.53	0.55	0	12	19	8	4	s.	F. S. Parks
Mount Ayr	Ringgold	1,245	33	74.2	- 0.1	95	2†	50	14	32	2.80	- 1.62	1.09	0	10	18	7	6	sw.	J. L. Hurley
Mt. Pleasant	Henry	729	45	75.8	+ 0.1	96	20	51	14	29	4.67	+ 1.01	1.73	0	8	11	17	3	sw.	Alex Maxwell
Oakland	Pottawattamie	1,105	7	76.7	+ 2.4	101	20	45	11	40	2.16		0.82	0	6	20	8	3	s.	J. H. Jericho
Oskaloosa	Makaska	835	50	74.6	+ 0.9	97	20	49	14	31	3.18	- 0.54	0.96	0	8	10	9	12	ne.	M. E. Gray
Ottumwa†	Wapello	649	31	77.0		96	1	48	11	33	3.91	+ 0.35	1.72	0	10	15	13	3	se.	Roy R. Robinson
Red Oak (near)	Montgomery	1,030	1								4.44		1.73	0	7	11	19	1	s.	C. L. Mikesh
Riverton (near)	Fremont	920									3.59		1.71	0	11	15	10	6	s.	B. R. Bridge
Sigourney (near)	Keokuk	790	30	74.8a	+ 0.7	95a	20	48a	14	33b	6.49	+ 2.64	2.24	0	7	15	8	8	sw.	George C. Rader
Stockport	Van Buren	747	24	75.7	+ 1.9	96	20	47	14	34	5.93	+ 1.34	1.53	0	10	17	8	6	s.	W. E. Utterback
Thurman	Frederick	975	29	77.1	+ 1.5	101	20	42a	25	49a	3.18	- 0.99	0.89	0	8	7	20	4	sw.	C. L. Beswick
Tingley	Ringgold	1,275	1	74.2		96	19†	50	13	31	1.49		0.60	0	8	15	11	5	sw.	C. R. Paul
Washington	Washington	769	41	75.8	+ 1.3	98	20	48	14	34	4.65	+ 1.31	1.40	0	8	15	12	4	ne.	James A. Verploegh
Wescott (near)	Lee	523	4	76.7		94	2†	55	10	30	2.45		1.35	0	4	24	5	2	sw.	D. D. Sherman
Winterset	Madison	1,129	35	76.2	+ 1.3	98	20	49	13	32	1.64	- 2.76	0.80	0	8	22	5	4	sw.	Lester J. Larson
Omaha, Neb.		1,103	55	78.2	+ 1.5	102	19	55	13	28	3.13	- 1.20	0.94	0	9	12	14	5	n.	H. S. Ely
Means and extremes				75.7	+ 1.1	102	19†	42	14	49	3.48	- 0.42	2.24	0	9	15	11	5	sw.	U. S. Weather Bureau
State means and extremes				74.8	+ 1.0	109	19†	38	14	50	3.72	- 0.13	4.88	0	10	15	10	6	sw.	

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means.
 Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.
 †Also other dates.
 ‡Temperature not included in means.
 ††Received too late to be included in means and summaries.
 T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level)				Relative Humidity, %				Wind				Sunshine				
	Mean	Highest	Date	Lowest	Mean		Lowest	Date	Total movement	Average hourly velocity	Maximum			% possible			
					7 a. m.	7 p. m.					Miles	From			Date		
Charles City	29.93	30.10	25	29.33	9	78	52	57	30	14†	4,742	6.4	23	sw.	19	69	- 6
Davenport	29.94	30.17	23	29.40	9	74	54	57	32	23	5,195	7.0	23	e.	26	55	- 20
Des Moines	29.91	30.19	11	29.35	9	79	59	60	35	20	5,974	8.0	32	sw.	20	64	- 9
Dubuque	29.92	30.18	3	29.38	9	76	53	57	32	11	4,258	5.7	21	nw.	21	58	- 12
Keokuk	29.95	30.20	3	29.53	14	74	53	56	34	14	4,902	6.6	27	sw.	9	74	- 5
Sioux City	29.90	30.23	25	29.29	9	76	52	49	17	20	7,993	10.7	42	s.	23	63	- 8
Omaha, Neb.	29.90	30.18	11	29.34	9	72	50	49	19	19†		5.0	33	nw.	23	78	+ 4
Means and extremes	29.92					76	54	55				7.1				66	- 8
Normals and records	29.97		7th	29.29	9th	79		57		25th		6.7			13th	74	
		*30.47	1892	29.29	1926					113	1894				ne.	1905	

*Davenport. †Sioux City. ‡Des Moines. ††Omaha. ††Local mean time. †And other dates.

TEMPERATURE

The mean temperature for the State, as shown by the records of 103 stations, was 74.8°, or 1.0° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 73.8°, or 1.1° higher than the normal; Central, 74.8°, or 0.8° higher than the normal; Southern, 75.7°, or 1.1° higher than the normal. The highest monthly mean was 77.6°, at Glenwood, and the lowest was 69.6°, at Postville. The highest temperature recorded was 109°, at Inwood, on the 19th and 20th, and the lowest was 38°, at Decorah, on the 14th. The temperature range for the State was 71°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 113 stations, was 3.72 inches, or 0.12 inch less than the normal. By divisions, the averages were as follows: Northern, 3.90 inches, or 0.11 inch greater than the normal; Central, 3.77 inches, or 0.08 inch less than the normal; Southern, 3.48 inches, or 0.42 inch less than the normal. The greatest amount, 9.08 inches occurred at Clinton, and the least, 0.82 inch, occurred at Cumberland. The greatest amount in 24 consecutive hours, 4.88 inches, occurred at Clinton on the 29th-30th.

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Daily Precipitation for July, 1926

Stations	Drainage Basin	Day of Month																															Totals				
		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					
Northern Division																																					
Algona	Des Moines	.50	.05																															.46	.35	1.45	2.81
Allison (near)	Cedar	T.	1.88	1.05					.34	.02		.08										.18			.05			.70	.50	.45	.07				5.32		
Alta	Raccoon	T.			.20	.33		.18		.10		.28			T.	.18							.14		.93				.10	.13					2.57		
Alton	Floyd	T.		.06	1.04					T.		.12			T.		.08						.05		.42						1.08	.03			2.88		
Belmond	Iowa	.01	.22				.75																.13		.08		T.	T.	.50	.45	1.22	.03		3.39			
Britt	Iowa	.23	.32									.02											.02						.35	.90	1.42	.11		3.37			
Charles City ***	Cedar	.04	1.04	.08				.14	.01		.41						T.					.28			.05			1.02	2.23	.19	.58			6.07			
Cherokee	Little Sioux	.03			.99			.12	.27		.25		T.	T.	.39	T.						.05		1.09	.01	T.	T.	.04	.14	.11	.01			3.50			
Decorah	Mississippi	.07	.26	.84					T.	.07		T.											.25		.36		.14	.25	.42	.23	.10			3.09			
Dubuque ***	Mississippi	.43	1.65	.50	.52				T.	.01		.06					.03						.38		T.	.36	.01	.13	.50	1.14	.39	.14			5.89		
Estherville	Des Moines	.25	.02		.55			.10		.05		T.					.05						.02		.03				.50	.60	.15			2.32			
Fayette	Big Sioux	.11	.31	.28					.14	.07		.07					.05					.19			.05		.52	.09	3.05	1.55	.28			6.69			
Forest City	Cedar	.10	.33	.02	.03				T.	.04		.07					T.						T.		.18			.25	.59	.55	.46			2.87			
Hampton	Cedar	1.03	.20					.20		.02												.62		.07		T.		.50	.42	.23	.10			3.14			
Humboldt	Des Moines	.37	T.	T.								.19										.36			.07		T.	1.23	T.	.72	.05			2.99			
Independence	Wapsipicon		1.11	.12						.18		.17										.13	.28				.81	.11	.48	.49	.15			4.03			
Inwood	Big Sioux	.01	.05					.14								T.	T.						.05		.74		1.70	.05	T.					2.74			
Lansing	Mississippi	.33	.34	.21		T.					T.	.18				T.	.12	T.					.16		.01		.01		.01	.26	2.07			3.70			
Le Mars	Floyd		.05		.87			.08	.01			.04		T.		T.	T.					.01		1.43		.04	.12	1.10	.04	T.				3.79			
Mason City	Cedar	.09	.27	T.	T.				.06			.24				T.							.03		T.		.29	.28	.88	1.61	.06			3.81			
Milford (near)	Little Sioux	.05			.50				.10	1.40							.05					.06							1.25	2.20				5.61			
New Hampton	Wapsipicon	.10	.65	.30								.01										.10					.30	.12	2.00	.47	.05			4.12			
Nora Springs	Cedar	.18	.57	.10	.04						.03		.49				.06					.12				.09	.04	.68	.58	.53	.07			3.88			
Northwood	Cedar	.23	.20	T.					.36			.40				T.	T.					.02			.03	T.	.15	.98	2.25	1.54	.02			6.18			
Oelwein	Wapsipicon		1.60	.55							.40		.15		1.15	.10	2.15	.50				.20					1.15	.98	2.25	1.54	.02			6.80			
Osage	Cedar	.10	.16	.04								.12					.02					.01			.23		.34	.55	1.93	1.30	.10			4.90			
Pocahontas	Des Moines	.13			.04					.02		.20										T.		T.	.04		T.	.10	.20	.65				1.38			
Postville	Mississippi	.80	.38	.07						T.	T.	.05				T.						.08			.12	T.	.29	.15	.50	1.99	.35			4.78			
Rock Rapids	Big Sioux	.04	.03		.06			.01				.13												.37					.56	1.60	T.			2.80			
Sanborn	Floyd	.05	.02		.29							.30					.07						.07			.05				2.76	.40			4.01			
Sheldon	Floyd	.01	.02		.07	.13		.02	.10	T.		.17		.02		.01	.02					.08		.14						1.90	.39	.01		3.09			
Sioux Center	Floyd	.04	T.		.07	T.		T.	T.			.22		T.		.30	T.						.04		.22		T.			2.90			3.79				
Spencer	Little Sioux	.15	.02		.75			.41			.40															.35	.50	2.60	1.20	.02				6.45			
Storm Lake	Raccoon	.03	T.		.31	T.		.09	.10		.15	.14			.01							.05		.95		T.			.11	.13	T.		2.07				
Washta	Little Sioux	.05	T.		1.04			.08				.03			.05								.14		.35		.12	.02	.42	.25	.05			3.10			
Waterloo	Cedar		.41	.15			T.				.32		.31									T.	.15		.05		.47	.81	1.29	.15	.05			4.16			
Waverly	Cedar																																				
West Bend	Des Moines	.07	.13		.16					T.			.09			T.						.02			T.	T.			1.80	.40	1.28			3.95			
Central Division																																					
Ames	Skunk	.07	.05		.67				T.			.03	T.									.92			.03	T.								4.91			
Audubon	Nishnabotna	T.			T.			.04															.35		.65		T.	1.47	1.13	.01	.53			2.41			
Baxter	Skunk	.02		.40	.03			.09			.09												.16			.08	1.90	.30	.08	.70				3.76			
Belle Plaine	Iowa	T.	T.	.61	.09	.01		.16	.01		T.											.29	.42				.26	.53	.05	1.18	.79			4.40			
Boone	Des Moines	.09	T.	.02		.45				T.				T.	T.								1.81		.11			.85	.17	.03				3.53			
Carroll	Raccoon	.20				.10				T.					.08								.11		.90		.70			.18	.08			2.35			
Cedar Rapids	Cedar	.03	T.	1.00		.01		T.	.09		.22	T.											.17				1.30	.17	.35	.30	.43			4.07			
Clinton	Mississippi	.12	.05	1.86				.63			.03												1.10						1.19	3.69	.41			9.08			
Davenport ***	Mississippi	.35	.03	.11		T.	T.		T.	.56		T.										.40	.44			T.		.01	.40	.53	.15			2.98			
Davenport (No.2)	Mississippi	.18	.04	.12					.29													.37	.45			T.			.02	1.10	.26			2.83			
Denison	Missouri	.08			1.19											T.						.59			1.03				.47				3.36				
Des Moines ***	Des Moines	.06	.46	.29	T.	.13		T.	T.	.15												.59				T.	.26	1.55	.03	.17			3.69				
Fairport	Mississippi	1.62	.02	.20				.55	.04													.02	1.10		.09	T.	.05	.09	.02	.19			3.99				
Fort Dodge	Des Moines	.14		.25		.10					.42											.06		.38		.80		.43	.07					2.65			
Grinnell	Iowa		.08	.57				.78														.08	.25				.71	.10	.04	2.25				4.86			
Grundy Center	Cedar	.05	T.	.45		1.47		.35			.06											.42			.04		.70	.35	.16	.18	.08			4.31			
Guthrie Center	Raccoon	.15	.04		T.	.66		.03								T.						.10			.50		.05		.28	.06	T.			1.87			
Harlan	Nishnabotna	.01		.22	.01			.06														.32			1.14				.50					2.26			
Iowa City	Iowa	.01	.31	.03			T.		T.	.05													.66				.02	.10	.30	.96	1.87	.41		4.31			
Iowa Falls	Iowa	T.	.06	.29		.08				.03		.07											.12			.12	T.		.04		1.13	.03		1.97			
Jefferson	Raccoon	.28		.32		T.		T.		.50												.09			.78		T.	T.	T.	T.	.04	T.		2.01			
Le Claire	Mississippi	.01	.37	.11	T.			.01	.67					T.								1.27				T.	T.	1.92	1.18				5.54				
Little Sioux	Little Sioux	T.			T.	.01	.26		.01					.06								.44		.61	.02	.01			.67</								

Daily Precipitation for July, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals
		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	
<i>Southern Division</i>																																	
Afton	Grand	.02	.08	.35		.65			.66			1.40			.05							.18							.07	.03	.32	3.76	
Albia	Des Moines	T.	T.	.22		.33	T.		1.25	.04			.68									.42						1.30		.14	4.38		
Atlantic	Nishnabotna	.04	.03					.05		.01					.01									.62					T.	.62	.33	1.71	
Bonaparte (near)	Des Moines	T.		.90				T.	.84			T.										T.	.97					.80		.57	4.72		
Burlington	Mississippi	T.	T.	.28	.12				.12	1.00												.95				.08		T.	.28	.21	3.04		
Centerville	Chariton			.45	.03		.02	T.	.01	.61		.03	.13		.11							.35	.22		T.			.38		.13	2.53		
Chariton (near)	Chariton			.50			.28			.64		.34										.20	.44					.12		.51	3.03		
Clarinda	Nodaway			.78	.07		1.30	.01	.30		.27		.95		.60	.55							.02						.07	.65	5.57		
Columbus Jct.	Iowa																																
Corning (near)	Nodaway						1.21					T.																	.20	1.35	2.76		
Corydon	Chariton			.27			.18			2.05		.12			.33							.81						.02		.04	4.74		
Creston	Missouri	.02		1.54			1.10	.03			.03	.04		1.71									.02					T.	.02	.55	5.10		
Cumberl'd (near)	Nodaway	.03	.03	.03			T.	T.	T.	T.					.02										.61		T.	T.	.05	.05	0.82		
Earlham (near)	Des Moines	.10	.04	.46		T.	.17			.17					T.													1.25	.39	.03	2.61		
Fairfield	Skunk			.87					T.	.30			.48															1.30	1.25	1.44	5.64		
Glenwood	Missouri						.60		.06	.01		.04		.30											1.15				.54	2.70			
Indianola	Des Moines	.07		.24			.06		.68													.02	.02			T.	.26	.09	.03	1.33			
Keokuk***	Mississippi			.08			.16		.10	.54	T.		T.									.92	.12				.10	.08	.07	2.77			
Keosauqua	Des Moines			1.46		.13			.41			T.										T.	.57				.62	.79	.65	6.13			
Knoxville	Des Moines	T.	T.	.25	.15	.03			.21	.61												.17	.35				T.	1.80	.24	.06	4.33		
Lacona	Des Moines	.01		.20		.18																.13	.57					.50	.01	.20	1.80		
Lamoni	Grand			.02	.04		.12	.04	.05	.18	.05		.28		.02								.76						.80		2.36		
Lenox	Missouri	T.	T.	.22		.11		.06	.25			.41	.14		.15					.05		.01	.03					.02	.23	1.68			
Mount Ayr	Grand			T.		1.09	.05	.06	.58		T.		.06		.02								.60	.27					.01	T.	2.80		
Mt. Pleasant	Skunk			.45					.42	.02		T.										1.24	.49			T.		.97		.65	4.67		
Oakland	Nishnabotna						.06		.10						.15											.82			.64	.39	2.16		
Oskaloosa	Des Moines	T.	T.	.44		T.	T.	T.	.96													.21	.37			T.		.53	.05	.50	3.18		
Ottumwa	Des Moines	T.	T.	1.72		.05			.20			.05		.68									.49			.01		.68	.46	.10	3.91		
Red Oak (near)	Missouri					.57			.29				.90		.68											.27			1.00	.73	4.44		
Riverton (near)	Nishnabotna		.08		.12		.43	.08		.28		1.71		.19								.01			.02				.56	.11	3.59		
Sigourney (near)	Skunk	T.		2.24		T.			.25													.36	.56			T.		1.60	.36	1.12	6.49		
Stockport	Skunk			.93			.20		T.	.31		.11		.48		.25						.56	.36			T.		.02	.73	1.18	5.93		
Thurman	Missouri			.06	T.	.78		.12	.48																		.89		.12	T.	3.18		
Tingley	Platt			.17		.07	.04	.02	.29						.06									.60					T.	.24	1.49		
Washington	Skunk			.65					.12	.02													.12	.34			T.	T.	1.02	1.40	.98	4.65	
Wescott (near)	Mississippi	T.		.25				T.	.65													1.35								.20	2.45		
Winterset	Des Moines	.03	T.	.80			.14	T.	.12				T.		T.							.13								.10	1.64		
Omaha, Neb.***	Missouri	T.	.08	T.		.08	.85	.57	.12	T.				.15											.93	.01		T.	T.	.31	.01	1.64	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.
 |||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
 ***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.
 **Incomplete.
 *Precipitation included in the next following measurement.
 T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 51)
 MISCELLANEOUS PHENOMENA

Fog: 31st.
 Hail: 1st, 4th, 6th, 12th, 21st, 23d, 27th, 28th, 29th, 30th.
 Haze: 2d, 15th.
 Rainbows: 8th, 23d.
 Thunderstorms: All dates except 10th, 11th, 13th, 14th, 16th, 19th, 25th.
 Winds, (hot): 16th, 17th, 18th, 19th, 20th.

RIVERS

Unusually low stages prevailed on the Mississippi River except a moderate rise occurred during the first week after which a general falling tendency prevailed till the last week when a slight rise occurred. Low stages prevailed on all principal interior rivers and there were no rises of consequence, but there were numerous slight rises following the heaviest shower periods. There were numerous fluctuations on the Missouri River but none of consequence and during most of the month nearly stationary stages prevailed. At Omaha the extreme stages ranged from 11.4 feet to 10.0 feet. Heavy rains during the last three days of the month caused floods on the Maquoketa River and some smaller streams in the northeastern portion of the State. All lowlands in the vicinity of Delhi were flooded and the Delhi-Hopkinson road was under water.

J. B. PARMALEE DIES

With much regret the death of J. B. Parmalee, Corn and Wheat Region Weather Observer at Iowa Falls, is announced. He was born at Banbridge, Ohio, March 18, 1845, and died at Iowa Falls, Iowa, July 20, 1926, aged 82.

His record as a cooperative observer of the U. S. Weather Bureau is remarkable. He began at Nebraska City, Nebraska, February, 1880, where he continued 12 years to and including January, 1892. He then moved to Iowa Falls, Iowa, where he lost no time in reestablishing connections with the Weather Bureau, for he rendered a report at Iowa Falls for the month of March, 1892. From that time to and including June, 1926, he never missed making a reliable monthly report, and during most of that time made daily telegraphic reports to Des Moines during the crop season. In all he served 46 years and 5 months, with only two months, April, 1891, and February, 1892, missing, the latter month while moving from Nebraska City to Iowa Falls.

His records were at all times remarkably free from errors and inconsistencies. He also made extensive and interesting tabulations and summaries of his observations. Besides his purely meteorological records, he made interesting notes of planting and harvesting dates and other events on his farm. He was a faithful reporter for the weekly weather and crop bulletin and actively participated in many other cooperative lines with the State and Government.

Miss Mary F. Parmalee, his daughter, has consented to continue observations for a time.

FAITHFUL COOPERATIVE OBSERVER RESIGNS

After 29 years, 1½ months unbroken service as a cooperative observer of the United States Weather Bureau at Thurman, Iowa, Mr. C. R. Paul has turned the work over to H. H. Askew. Mr. Paul began June 15, 1897, and ended July 31, 1926. His precipitation record does not have a break in all that time, but due to defects that developed in the thermometers two months of temperature records were unreliable through no fault of the observer.

This is a highly commendable record, not often equaled. The Nation, State and local community are much indebted to Mr. Paul for the faithful services he has contributed.

Daily Maximum and Minimum Temperature for the Month of July, 1926

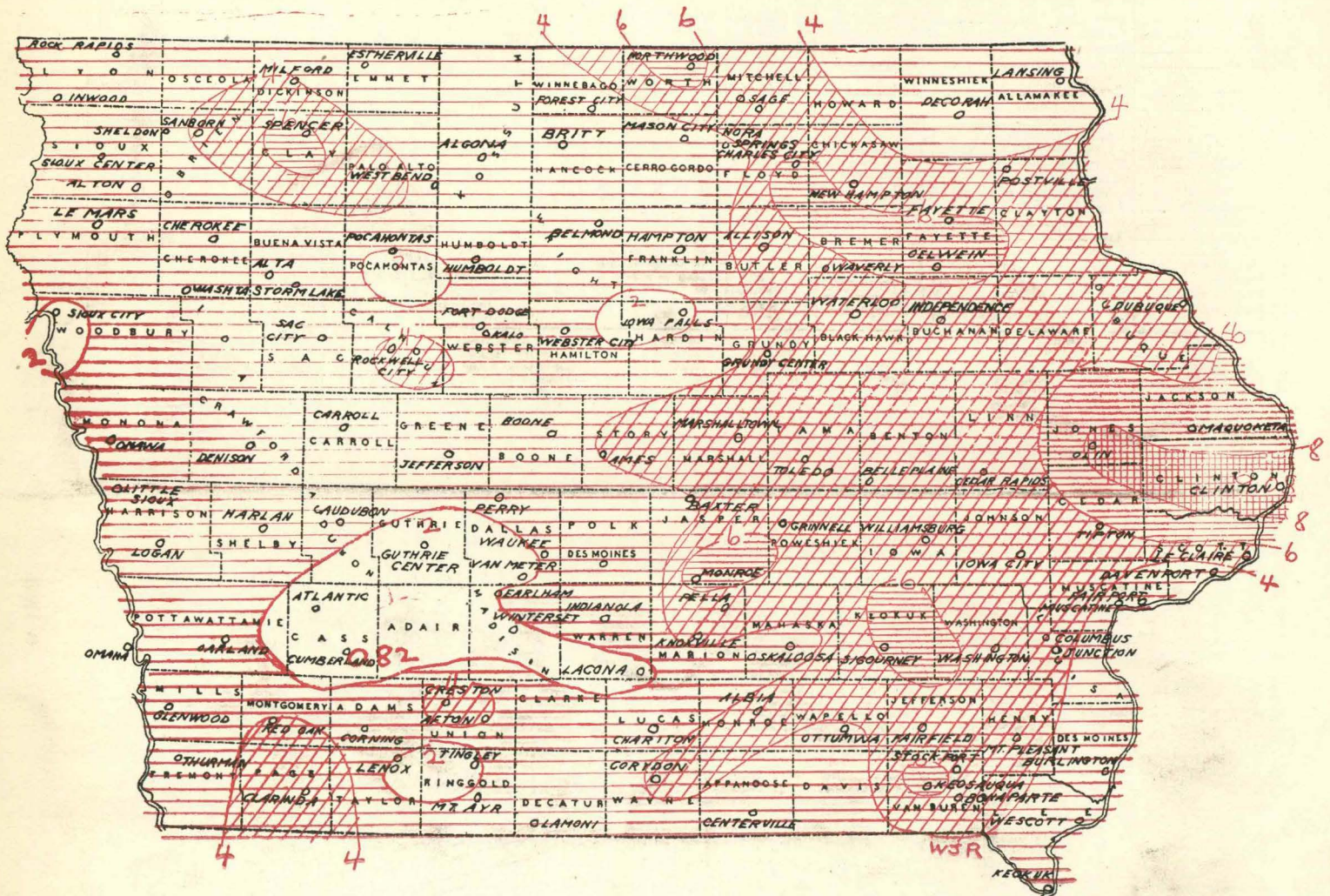
Table with columns for Stations, days 1-31, and Mean. Rows are categorized by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

IOWA STORMS DURING JULY, 1926

Date	County	Township	Nature of Storm	Time	Storm Moved From	Width of Path Miles	Length of Path Miles	Area Sq. Miles	Size of Hailstones Inches	DAMAGE	Persons	
											Injured	Killed
1	Butler	Aplington	Hail	9:30 p.	NW to SE	2	5	10	Walnuts	Crops, \$50,000		
1	Butler	Washington	Hail	10:00 p.	NW to SE	1 1/2			Hen Eggs	Crops, \$15,000, some windows broken		
4	O'Brien	Carroll	Hail	8:00 p.	W to E	1 1/2	14	21	Marbles	Crops, \$50,000		
4	Sioux	Sherman	Hail	5:30 p.	W to E	1	6	6	Small	Crops, \$4,000		
4	Sioux	West Branch	Hail	10:00 p.	SW to NE	3/4				Crops, \$10,000		
6	Page	Washington	Hail	1:00 a.	NW to SE	2			1/2"	Some damage to crops		
12	Fremont	Washington	Hail	6:40 p.	NE to SW	3/4	8	6	3/4"	Severe damage to crops		
12	Fremont	Riverton	Hail	6:30 p.	NE to SW	2			Marbles	Crops, \$25,000		
12	Louisa	Elm Grove	Hail	4:00 p.	NW to SE				Hazel Nuts	Crops, \$500		
12	Monroe	Urbana	Hail	2:25 p.	W to E				1"	Crops, \$25,000		
12	Monroe	Monroe	Hail	3:00 p.	SE to NW	1	6	6	3/4"	Crops, \$12,000, some poultry and windows		
12	Monroe	Troy and Mantuary	Hail	3:00 p.	SE to NW	2	8	16	Walnuts	Crops, \$50,000		
12	Union	Highland and Sand Creek	Hail	4:00 p.	NW to SE				1"	Some damage to corn but not serious		
21	Allamakee	Iowa	Hail	3:00 p.	W to E				1"	Some damage to small grain		
23	Plymouth	Grant	Hail	5:00 p.	W to E				1/2"	Heavy damage to crops		
23	Sioux	Buncombe	Hail	4:00 p.	NW to SE			9	1"	Crops damaged about 50%		
23	Sioux	Washington and Logan	Hail	4:30 p.	W to E	8			1"	Corn damaged 90%, some poultry and hogs drowned		
27	Boone	Grant	Hail	11:50 p.	NW to SE	2	4	8	Marbles	Crops, \$50,000		
27	Calhoun	Lincoln, Cedar and Greenfield	Hail	11:00 p.	NW to SE	5	12	60	Hen Eggs	Crops, \$640,000, some windows broken		
27	Webster	Roland, Gowrie, Lost Grove and Clay	Hail	11:30 p.	NW to SE	5	12	60	Hen Eggs			
27	Hamilton	Fremont, Liberty, Lynn, Hamilton and Independence	Hail		S to N	2			Small	Crops, \$70,000		
27	Pocahontas	Lizard	Hail	2:30 a.	S to N	1	6	6		Crops, \$100,000		
27	Webster	Newark	Hail	2:00 a.	SE to NW							
27	Wright	Troy	Hail	2:00 a.	SE to NW	3	3	9	Peas	Crops, \$1,800		
28	Greene	Paton	Hail	12:30 a.	NW to SE	2	6	12	1"	Crops damaged about 50%		
28	Hamilton	Cass	Hail	1:00 a.	NW to SE	1	6	6	1/2"	About 50% loss to crops		
28	Keokuk	English River and Plank	Hail	1:00 p.	SE to NW	2	10	20	Hickory Nuts	Crops, \$40,000		
29	Franklin	Geneva	Hail	6:00 p.	W to E	2	4	8	1/2"	Crop loss about 50%		
30	Audubon	Douglas	Hail	1:00 p.	NW to SE	1/2			Marbles	Damage slight		

TOTAL PRECIPITATION, JULY, 1926



SCALE OF SHADES IN INCHES

Less than 2

2 to 4

4 to 6

6 to 8

More than 8

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
 IOWA WEATHER AND CROP BUREAU
 CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, AUGUST, 1926 No. 8

GENERAL SUMMARY

From an agricultural standpoint generally favorable weather conditions prevailed during August, 1926. There was a general excess in temperature, precipitation was somewhat above normal and more evenly distributed over all divisions than usual, sunshine was ample and storms of a destructive nature were of limited extent.

There were frequent fluctuations in temperature and daily values did not vary greatly from the normal except during the last week when a very warm period prevailed. The excess for this week averaged about 9° daily along the Missouri River and gradually diminished to about 7° daily along the Mississippi River and several stations reported temperatures of 100° or higher. High temperatures prevailed over a narrow strip in the southern portion of the State on the 9th, exceeding 100° at a number of stations, while much lower maxima prevailed over the rest of the State. This condition was caused by a trough of low pressure over the southwestern portion that moved very slowly.

The precipitation was remarkably uniform for a summer month and occurred in rather well defined periods, the principal period lasting practically all of the 2d week. There were severe local downpours at a number of stations, Fort Dodge having two such storms, Mason City one, Muscatine one, several in country districts, the worst probably occurring in Mitchell County. Most of these storms were accompanied by hail but the greatest damage occurred in cities by basements being flooded and streets washed out. The greatest damage probably occurred to industrial plants at Muscatine where basements were flooded damaging goods and machinery; and some buildings collapsed by having foundations undermined. Hailstorms occurred on numerous days but as a rule were less severe than during the previous months. Probably the greatest damage resulted from a storm that occurred in portions of Polk, Story and Boone Counties on the afternoon of the 13th. Most of the damage was sustained in a narrow strip running northward from East Des Moines that is highly developed truck farms and an estimate of the damage was impossible. Some of the crops in small areas were completely destroyed. Severe hailstorms occurred in Mitchell County on the 18th and 20th causing an estimated damage to crops of about \$50,000. A tornado was reported as having occurred on the evening of the 17th, about 8:00 p. m., starting in Staunton Township, Plymouth County, and pursued a narrow path eastward and disappeared east of Marcus, Cherokee County, leaving a trail of about a half mile wide. The tail of the funnel cloud reached the earth for only a few short distances, wrecking several farm buildings and damaging crops as much as 50% in small areas. In rural districts many small streams overflowed and numerous culverts and bridges were washed out but none of the larger streams were sufficiently high to cause damage.

Conditions were favorable for farm work. Plowing progressed satisfactorily and the soil was generally in good condition but threshing in much of the State was delayed by frequent rains and some grain in the stack was sprouting and some in shocks was washed away. A large acreage of alfalfa was seeded under conditions that were most favorable. Corn made good progress though it is behind the average in development and will require favorable weather to mature nearly an average percent of the crop if frost holds off till the average date. Pastures that had been revived by the heavy rains during the latter part of July showed steady improvement and were generally in excellent condition. While there was sufficient rainfall for crops there was still a scarcity of water in portions of Cass and Guthrie Counties and limited areas adjoining, necessitating the deepening of wells or the digging of new ones. There was an abundance of grapes and apples at low prices. Many apples rotted in orchards for lack of a market.

F. L. D.

COMPARATIVE DATA FOR THE STATE—AUGUST

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	75.7	+ 4.0	102	54	4.17	- 0.73	8.40	0.00					
1874.....	74.3	+ 2.6	99	55	3.12	+ 0.32	9.16	0.85					
1875.....	68.9	- 2.8	92	41	4.04	+ 0.60	7.60	1.07					
1876.....	73.2	+ 1.5	96	46	5.15	+ 1.71	10.04	1.50					
1877.....	71.9	+ 0.2	100	53	4.36	+ 0.92	12.65	0.10					
1878.....	74.4	+ 2.7	100	50	3.22	+ 0.22	9.15	0.43					
1879.....	72.0	+ 0.3	100	42	2.70	+ 0.74	7.50	0.45					
1880.....	72.5	+ 0.8	104	41	4.77	+ 1.33	9.88	0.77					
1881.....	76.5	+ 4.8	104	48	2.71	+ 0.73	6.85	0.32					
1882.....	71.5	- 0.2	96	43	1.61	+ 1.83	6.90	0.07					
1883.....	69.2	- 2.5	98	42	2.58	+ 0.86	8.95	0.22					
1884.....	68.5	- 3.2	93	44	4.09	+ 0.65	8.34	1.98					
1885.....	66.9	- 4.8	98	40	5.90	+ 2.46	12.68	2.79					
1886.....	74.2	+ 2.5	103	34	2.02	+ 1.42	7.13	0.30					
1887.....	70.8	- 0.9	103	34	2.75	+ 0.69	8.85	0.51					
1888.....	70.4	- 1.3	110	40	4.37	+ 0.93	8.40	0.95					
1889.....	71.3	- 0.4	104	37	1.87	+ 1.57	9.95	0.12					
1890.....	68.1	- 3.6	102	34	3.25	+ 0.19	6.44	1.03					
1891.....	69.1	- 2.6	106	34	4.24	+ 0.80	13.02	1.23					
1892.....	71.4	+ 0.3	102	40	2.24	+ 1.20	4.69	0.65		8	13	12	6
1893.....	69.4	- 2.3	101	30	2.32	+ 1.12	6.22	0.40		5	18	9	4
1894.....	74.6	+ 2.9	108	38	1.58	+ 1.86	4.53	T.		4	21	8	2
1895.....	71.9	+ 0.2	103	37	4.43	+ 0.99	10.63	0.67		7	17	9	5
1896.....	71.7	+ 0.0	104	34	3.52	+ 0.08	12.25	0.86		8	15	11	5
1897.....	68.9	- 2.8	104	35	1.86	+ 1.58	4.98	0.47		6	15	11	5
1898.....	71.2	+ 0.5	103	40	3.44	+ 0.00	10.55	0.58		6	17	9	5
1899.....	74.4	+ 2.7	100	41	3.68	+ 1.24	10.45	1.12		7	17	10	4
1900.....	77.4	+ 5.7	103	44	4.65	+ 1.21	10.43	1.26		6	18	10	3
1901.....	73.8	+ 2.1	105	40	1.29	+ 2.15	4.46	T.		5	20	9	2
1902.....	69.1	- 2.6	98	37	6.58	+ 3.14	15.47	1.57		11	11	11	9
1903.....	69.1	- 2.6	101	41	6.64	+ 3.20	17.74	2.55		11	12	10	9
1904.....	69.1	- 2.6	97	35	3.43	+ 0.01	6.75	0.66		7	17	8	6
1905.....	74.3	+ 2.6	104	44	4.05	+ 0.61	8.47	1.04		9	16	9	6
1906.....	74.1	+ 2.4	101	33	3.95	+ 0.51	10.51	0.92		9	17	9	5
1907.....	71.1	- 0.6	99	37	4.33	+ 0.89	9.67	1.05		9	17	9	5
1908.....	70.0	- 1.7	101	38	4.77	+ 1.33	10.55	1.35		9	17	9	5
1909.....	76.1	+ 4.4	103	33	1.81	+ 1.63	8.21	T.		5	21	8	2
1910.....	71.9	+ 0.2	104	36	3.88	+ 0.44	11.22	0.37		8	15	10	6
1911.....	71.7	+ 0.0	107	34	3.32	+ 0.12	9.47	0.44		9	16	10	5
1912.....	71.0	- 0.7	101	40	3.78	+ 0.34	7.90	0.89		10	15	10	6
1913.....	76.6	+ 4.9	108	40	2.68	+ 0.76	7.13	0.08		6	17	10	4
1914.....	73.7	+ 2.0	103	40	2.19	+ 1.25	4.90	0.42		7	17	10	4
1915.....	65.9	- 5.8	91	30	2.81	+ 0.63	9.14	0.27		8	16	8	7
1916.....	74.0	+ 2.3	106	35	2.58	+ 0.86	6.23	0.49		7	18	9	4
1917.....	69.4	- 2.3	102	31	2.29	+ 1.15	6.31	0.70		7	19	8	4
1918.....	76.0	+ 4.3	113	38	3.61	+ 0.17	8.38	0.54		8	16	10	5
1919.....	71.5	- 0.2	103	38	2.59	+ 0.85	5.72	0.97		7	19	9	3
1920.....	69.3	- 2.4	98	39	3.35	+ 0.09	8.52	0.44		7	18	8	5
1921.....	72.1	+ 0.4	102	37	5.04	+ 1.60	9.04	2.20		8	16	11	4
1922.....	73.8	+ 2.1	102	42	3.06	+ 0.38	9.80	0.33		8	19	8	4
1923.....	70.6	- 1.1	102	38	5.42	+ 1.98	13.14	1.46		12	15	9	7
1924.....	71.7	+ 0.0	100	40	5.35	+ 1.91	12.38	1.90		10	16	10	5
1925.....	72.4	+ 0.7	99	39	3.47	+ 0.03	8.36	0.31		8	18	9	4
1926.....	73.5	+ 1.8	103	47	3.80	+ 0.36	7.33	1.64		10	16	10	5

T indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for August, 1926

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit						Precipitation, in inches				Number of Days			Prevailing direction of wind	OBSERVERS		
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear			Partly cloudy	Cloudy
Northern Division																				
Algona	Kossuth	1,213	53	72.5	+ 2.2	95	27	52	7	31	4.11	+ 0.56	1.20	0	6	26	3	2	se.	W. E. Laird
Allison (near)	Butler	1,044	14	71.5	+ 1.0	98	28	50	24	35	4.17	+ 0.77	2.26	0	9	16	11	4	se.	J. A. Bell
Alta	Buena Vista	1,513	35	73.5	+ 3.2	98	27	54	24†	39	2.35	- 1.23	0.72	0	10	16	15	0	se.	D. E. Hadden
Alton	Sioux	1,305	21	72.5	+ 1.6	95	27	51	24	38	3.86	+ 0.76	1.08	0	13	9	16	6	se.	W. S. Slagle
Belmond	Wright	1,181	16	72.0	+ 2.2	96	27	50	7†	33	4.23	+ 1.15	2.34	0	10	6	4	21	se.	H. F. Luick
Britt	Hancock	1,236	39	70.6	+ 0.7	94	27	51	7	34	4.07	+ 0.30	1.42	0	7	22	8	1	se.	James S. Ross
Charles City	Floyd	1,015	35	71.1	+ 2.0	93	27	54	24	32	2.53	- 0.90	0.93	0	10	11	14	6	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	4	71.5		98	27	47	7	42	2.53		0.69	0	14	21	9	1	ne.	J. E. Wirth
Decorah	Winnesheik	875	33	69.5	+ 1.0	94	28	49	7	35	2.66	- 0.64	1.03	0	8	21	5	5	nw.	M. D. Whitney
Dubuque	Dubuque	698	53	72.8	+ 1.1	92	28	55	25	28	1.85	- 1.48	0.83	0	9	10	11	10	se.	U. S. Weather Bureau
Estherville	Emmet	1,298	31	72.2	+ 3.4	99	27	52	7	34	2.79	- 0.40	1.00	0	10	17	11	3	nw.	A. O. Peterson
Fayette	Fayette	1,003	38	71.8	+ 2.4	97	28	49	25	38	2.19	- 1.35	0.68	0	9	19	8	4	ne.	R. Z. Latimer
Forest City	Winnebago	1,226	32	71.4	+ 1.2	95	27	52	7	33	2.72	- 0.65	0.92	0	8	13	15	3	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	1	71.4i	- 0.5	94i	27†	51i	7	37i	3.55	+ 0.10	2.21	0	7				se.	L. H. Davis
Hawarden	Sioux	1,181									5.38		2.31	0	8				se.	Earl V. Slife
Humboldt	Humboldt	1,095	38	72.4	+ 0.6	97	27	50	7†	34	4.14	+ 0.84	1.34	0	9	20	11	0	sw.	H. C. Snitkey
Independence	Buchanan	921	62	72.2	+ 0.9	92	28	54	24†	33	4.57	+ 1.36	1.37	0	10	22	2	7	ne.	Dr. George Boody
Inwood	Lyon	1,474	22	72.6	+ 2.1	101	27	50	5	40	2.89	+ 0.30	0.80	0	11	22	2	7	se.	A. C. Hanson
Lansing	Allamakee	632	19								4.05	+ 1.10	1.36	0	10				sw.	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	30	72.4	+ 1.4	97	27	49	7	36	4.14	+ 1.46	1.67	0	9	22	7	2	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	29	70.8	+ 1.2	94	27†	50	7	33	6.13	+ 2.39	3.80	0	7	13	17	1	ne.	American Beet Sugar Co.
Milford (near)	Dickinson	1,430	6																ne.	Dr. Ferdinand J. Smith
New Hampton	Chickasaw	1,169	29	72.0	+ 2.2	96	28	56	25	33	3.38	- 0.12	1.45	0	12	11	19	1	s.	E. J. Feuling
Nora Springs	Floyd	1,064	14	71.6	+ 0.4	93	27†	49	7	35	3.76	- 0.01	1.81	0	11	19	11	1	s.	Arthur Betts
Northwood	Worth	1,222	30	70.2c	+ 1.7	90d	28	52b	7	30d	1.73	- 2.23	0.69	0	10	10	12	9	nw.	Charles Dwelle
Oelwein	Fayette	1,036	2	71.7		93	28	53	25	31	3.28		0.90	0	9	17	8	6	s.	John T. Ridler
Osage	Mitchell	1,163	1	70.8		96	27†	50	7	39	2.71		0.71	0	11	16	11	4	ne.	Geo. H. Munger
Pocahontas	Pocahontas	1,248	22	73.0	+ 2.4	99	27	51	7†	38	3.44	+ 0.07	1.05	0	9	19	12	0	se.	F. E. Hronek
Postville	Clayton	1,180	27	67.8	0.0	91	28	49	25	32	2.65	- 0.80	0.70	0	8	12	11	8	w.	L. H. Williams
Rock Rapids	Lyon	1,358	27	71.9	+ 2.2	96	27	50	5†	40	3.69	+ 1.34	0.92	0	8	22	9	0	se.	J. K. Medberry
Sanborn	O'Brien	1,553	12	71.4	+ 0.9	95	27	49	7	37	4.05	+ 0.84	0.94	0	12	20	5	6	e.	J. W. Dow
Sheldon	O'Brien	1,418	1	72.4		96	27	50	24	39	3.31		0.89	0	12	19	10	2	sw.	Ross E. Forward
Sioux Center††	Sioux	1,426	27	71.8	+ 1.3	96	27	53	5	35	3.43	+ 0.61	1.15	0	10	17	10	4	s.	J. De Ruyter
Spencer	Clay	1,319	12	73.0	+ 2.4	98	27	48	7	36	2.56	- 0.84	0.90	0	9	16	11	4	se.	E. W. Little
Storm Lake	Buena Vista	1,440	37	73.8	+ 2.4	95	27	54	24	31	3.47	+ 0.33	1.37	0	10	26	4	1	e.	George H. Fracker
Washta	Cherokee	1,157	28	72.5	+ 1.9	98	27	47	7	41	2.69	- 0.25	1.14	0	10	20	10	1	n.	H. L. Felter
Waterloo††	Black Hawk	854	43	73.2	+ 1.7	98	28	52	7†	37	2.48	- 0.83	1.11	0	7	23	5	3	nw.	R. B. Slippy
Waverly	Bremer	936	30	72.4a	+ 1.8	97a	28	52a	24	35a	3.65	+ 0.41	1.43	0	11				nw.	D. H. Murphy
West Bend	Palo Alto	1,197	33	71.8	+ 1.2	98	28	49	7	34	4.20	+ 0.51	1.42	0	7	14	16	1	se.	Jos. Dorweiler
Means and extremes				71.8	+ 1.5	101	27	47	7	42	3.42	+ 0.13	3.80	0	9	17	10	4	se.	
Central Division																				
Ames	Story	926	49	74.2	+ 2.4	97	27	55	7†	34	2.73	- 0.71	1.40	0	10	15	13	3	se.	Iowa State College
Audubon	Audubon	1,297	31	73.2	+ 2.4	97	5†	52	7	35	1.64	- 1.99	0.70	0	8	19	11	1	sw.	George Kibby
Baxter	Jasper	908	26	73.2	+ 1.0	93	29	53	7	33	4.54	+ 1.31	2.00	0	10	10	21	0	n.	Henry Geisse
Belle Plaine	Benton	866	36	73.6	+ 2.1	96	27	53	24	34	5.39	+ 2.16	1.85	0	10	14	13	4	s.	O. C. Burrows
Boone (near)	Boone	1,134	21	73.5	+ 2.6	97	27	49	7	40	2.81	- 0.75	0.97	0	10	15	8	8	s.	C. F. Henning
Carroll	Carroll	1,265	36	74.1	+ 3.0	96	27	53	7	35	5.96	+ 2.11	2.90	0	9	25	5	1	se.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	44	74.2	+ 0.9	95	28	51	25	35	4.48	+ 0.98	1.84	0	10	11	3	17	se.	J. T. Wurster
Clinton	Clinton	595	53	72.8	+ 0.1	92	28	50	3	31	2.69	- 0.94	0.69	0	8	21	5	5	nw.	Dr. A. P. Bryant
Davenport	Scott	580	55	74.6	+ 1.5	94	28	59	7	27	4.15	+ 0.74	0.80	0	13	9	11	11	e.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	1	75.2		94	3†	53	25	35	5.02		1.31	0	11				se.	Rex Shriner
Denison	Crawford	1,171	32	73.0	+ 1.5	98	27	50	24	33	2.44	- 1.37	0.68	0	9	14	15	2	s.	V. L. Byers
Des Moines	Polk	861	48	75.8	+ 2.7	96	27	58	24	31	2.95	- 0.59	1.44	0	7	9	8	14	n.	U. S. Weather Bureau
Fairport	Muscataine	567	5	74.4		91	29	58	25	27	7.33		2.23	0	14	14	3	14	s.	Bureau of Fisheries
Fort Dodge	Webster	1,114	26	72.3	+ 1.5	98	27	49	24	36	6.49	+ 2.89	3.10	0	10	24	4	3	s.	Samuel Sampson
Grinnell	Poweshiek	1,031	32	75.6	+ 3.0	94	9†	56	7†	31	5.73	+ 2.03	2.26	0	13	8	16	7	se.	Paul P. Meyers
Grundy Center	Grundy	976	35	72.8	+ 0.9	95	28	51	14	32	2.64	- 0.66	1.60	0	13	17	12	2	sw.	W. G. Heiberger
Guthrie Center	Guthrie	1,077	31	72.8	+ 1.1	98	27	52	24	37	2.34	- 1.52	0.69	0	8	15	11	5	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	27	74.6	+ 3.6	98	5	50	24	37	2.31	- 1.35	0.64	0	10	16	10	5	s.	Walter Bell
Iowa City	Johnson	733	66	73.8	+ 1.8	92	27†	54	25	31	4.24	+ 0.14	0.95	0	12	12	10	9	se.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	33	71.8	+ 2.2	95	28	51	24†	35	1.94	- 1.47	1.11	0	9	27	2	2	ne.	Mary F. Parmelee
Jefferson	Greene	1,052	27	73.2	+ 2.5	97	28	51	7	36	3.24	+ 0.66	1.41	0	10	13	7	11	sw.	W. I. Lyon
Le Claire	Scott	576	26								4.37	+ 1.34	0.91	0	12				sw.	Margaret T. Disney
Little Sioux	Harrison	1,040	21	75.2	+ 2.6	99	27	50	24	37	2.12	- 1.62	0.89	0	11	15	15	1	sw.	H. W. Kerr
Logan	Harrison	1,035	59																sw.	Mary Jean Stern
Maquoketa	Jackson	692	1	71.4e		92e		48e												

Climatological Data for August, 1926—Continued

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Precipitation .01 in. or more, Clear, Partly cloudy, Cloudy), Prevailing direction, and OBSERVERS. Includes stations like Afton, Albion, Atlantic, etc.

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.

†Also other dates.

‡Temperature not included in means.

§Received too late to be included in means and summaries.

T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Table with columns: Stations, Barometric Pressure (Mean, Highest, Date, Lowest), Relative Humidity (Mean, 7 a. m., 12 Noon, 7 p. m., Lowest, Date), Wind (Total movement, Average hourly velocity, Miles, From, Date), Sunshine (% possible, Departure from normal). Includes stations like Charles City, Davenport, Des Moines, etc.

TEMPERATURE

The mean temperature for the State, as shown by the records of 103 stations, was 73.5°, or 1.8° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 71.8°, or 1.5° higher than the normal; Central, 73.7°, or 1.8° higher than the normal; Southern, 74.9°, or 1.9° higher than the normal. The highest monthly mean 76.6°, at Lenox, and the lowest was 67.8°, at Postville. The highest temperature recorded was 103°, at Lenox, on the 9th, and the lowest was 47°, at Cherokee and Washta, on the 7th. The temperature range for the State 56°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 113 stations, was 3.80 inches, or 0.36 inch more than the normal. By divisions, the averages were as follows: Northern, 3.42 inches, or 0.13 inch more than the normal; Central, 4.00 inches, or 0.47 inch more than the normal; Southern, 3.98 inches, or 0.49 inch more than the normal. The greatest amount, 7.33 inches, occurred at Fairport, and the least, 1.64 inches, occurred at Audubon. The greatest amount in 24 consecutive hours, 3.80 inches, occurred at Mason City on the 19th.

§Sioux City. §Omaha. ¶Des Moines. †Local mean time.

(Continued on Page 61)

Daily Precipitation for August, 1926

Table with columns for Stations, Drainage Basin, Day of Month (1-31), and Totals. Rows list various Iowa locations and their drainage basins with daily precipitation values and monthly totals.

Daily Precipitation for August, 1926—Continued

Stations	Drainage Basin	Day of Month																														Totals			
		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		
Southern Division																																			
Afton.....	Grand.....	.02							.05	.02	.43	.44	.14			.02	.19					.80	.20									T.	T.	2.31	
Albia|||.....	Des Moines.....	.08	.01							.03	.04	.10	.03		1.45	.04		.02		.16		.03	.13	.29								.93	.04	3.38	
Atlantic|||.....	Nishnabotna.....						T.	.07	.68	.17				.01								.47	1.10											.22	2.82
Bonaparte (near).....	Des Moines.....	.75	.07					T.	T.	.37	1.10	T.	.75	.03	.09	.02				T.											.35		.15	3.68	
Burlington|||.....	Mississippi.....	.32	.88	.08					T.	.10	.01	.77	.12	.11	.17		.04	.03	.81		.04			.20	T.						.08	T.	3.76		
Centerville.....	Chariton.....	.04				T.				T.	.50	T.		1.28	.32	.15					.75	.60	T.	.22							.30		.27	4.43	
Chariton (near).....	Chariton.....	T.								T.	.44			.95									.32	.60							T.		T.	3.31	
Clarinda|||.....	Nodaway.....				.02					.13	.04	.59	.06		.33	.11	.04	.02	.04			.08	.30						.40				1.37	3.53	
Columbus Jct.....	Iowa.....	.30	.02							.60	.42	.37	.14		.69						1.06			.44					1.26			.20	5.71		
Corning (near).....	Nodaway.....									T.	.27	.10			.07	.44						.84	.96							.23	.31	.03	3.25		
Corydon.....	Chariton.....	.01								.01	.26	T.		2.16			3.20				.11		.15	.55						.33		.16	6.94		
Creston|||.....	Missouri.....								.05	.10	.50	.40			.50		.10	.03	.35	.03			.15	.30						.02	T.		3.03		
Cumberl'd (near).....	Nodaway.....							.08		.50	.20		T.		.03							1.25								T.	.70		2.76		
Earlham (near).....	Des Moines.....							.17		.40	.27			.62		.20	.01			T.		.39	.50							.30	.04		2.69		
Fairfield.....	Skunk.....	.89						.02	.14		.31	.26	.63	.05		.25	.05			.44			.16							.22		.23	3.65		
Glenwood.....	Missouri.....							.54		.41	.44	.12	.02		.18	.54				.13		.15	1.08							2.01	.04	.27	6.53		
Indianola.....	Des Moines.....	.02						.08		.08	.40		1.58		.13					.05		.22	.21							.04		.20	3.01		
Keokuk***.....	Mississippi.....	.36	.01					.01	.52	T.		.02	.23		.14	.13		.07	.48			.42								.83		.17	3.39		
Keosauqua.....	Des Moines.....	.47	.02					T.		.42	.52	.74	.93		.09	1.25						.26	.06							.39		.77	5.92		
Knoxville.....	Des Moines.....	.17						.08		.08	.35	.45	1.55			T.				1.03		.18	.20						.05		.52	4.66			
Lacona.....	Des Moines.....	.02						.02		.05	.38			2.01			.05					.42								.50		.18	3.63		
Lamon|||.....	Grand.....	.35				.07					.89	.03		.43				1.00				.87	.18							1.46	.01	5.29			
Lenox.....	Missouri.....					.02		T.		.05	.20	.04			.03	.35						1.27	.81							.15	.14	3.06			
Mount Ayr.....	Grand.....	T.				.23		T.		T.	1.87	.03	.20		.05	.11						.43	.04							.54		.13	3.63		
Mt. Pleasant.....	Skunk.....	.46	.08							.07		.75		.86			.45						1.10							1.94	.04	.19	5.94		
Oakland.....	Nishnabotna.....							T.		.42	.21				.67							1.79								1.40		4.49			
Oskaloosa.....	Des Moines.....	.18	.05					.05	.02	.21	.25	.11	.94								1.08	T.	.09	.21						.73		.80	4.74		
Ottumwa.....	Des Moines.....	.09						.08	.12	.08	.13	.05		1.03	T.	.02			.08		1.01		.03	.15					.36		.41	3.62			
Red Oak (near).....	Missouri.....									.37	.30					.25	.18					T.	1.10							.43			2.63		
Riverton (near).....	Nishnabotna.....									1.14						2.24					.07										.36	1.15	4.96		
Sigourney (near).....	Skunk.....	.32							.18	.37	.15	.37	1.12	.15		T.						.06	.57	T.	.86				.44		.19	4.78			
Stockport.....	Skunk.....	.36	.10					.03	.17	.02	.42	.87	.70	.11			.02	.05				T.	.12							.60		.59	4.16		
Thurman.....	Missouri.....							.32	.22	.33			.02			T.	.23					.10		.25	.40					.80	.38	.73	3.78		
Tingley.....	Platt.....	.02						T.		.28		T.	.46			.48						.99	.13							.05	T.		2.41		
Washington.....	Skunk.....	.08						T.	.32	.58	.12	.38		1.56	.07		.09					.78		1.06						1.92		.12	7.08		
Wescott (near).....	Mississippi.....	.60	.45					T.	.25			.15		.70						.30										.95		3.75			
Winterset.....	Des Moines.....					.05			.10	.30	.33		1.47			T.							.33	.32						.03		2.93			
Omaha, Neb.,***.....	Missouri.....						T.	.05		.24	.37	T.	T.			.87	.02					.23	.59							.28	T.	2.65			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.

**Incomplete.

*Precipitation included in the next following measurement.

T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 59)

MISCELLANEOUS PHENOMENA

Fog: 1st, 2d, 5th, 10th, 15th, 17th, 18th, 19th, 22d, 24th, 30th.
 Halos (lunar and solar): 16th, 22d.
 Hail: 10th, 13th, 15th, 16th, 17th, 18th, 20th, 21st, 22d, 23rd, 24th, 29th.
 Rainbows: 8th, 11th, 18th.
 Thunderstorms: All dates except 2d, 21st, 24th, 25th, 26th, 27th, 28th.
 Winds: (high): 27th.

RIVERS

Low stages prevailed on the Mississippi River at the beginning

of the month with a falling tendency till the latter part of the 2d week and nearly stationary stages prevailed till about the last of the 3rd week after which there were numerous slight fluctuations with a marked rise at the end of the month. Moderate stages prevailed on the Missouri River with a general falling tendency but with numerous slight fluctuations. Low stages prevailed on most of the interior rivers with a moderate rise about the middle of the month over the eastern portion of the State and at the end of the third week on the Raccoon River.

ERRATA

Report for June, 1926. Page 42; wind direction at Forest City published nw. should be se. Page 43; lowest temperature at Corning published 41°, on the 3rd, should be 40°, on the 26th.

Daily Maximum and Minimum Temperature for the Month of August, 1926

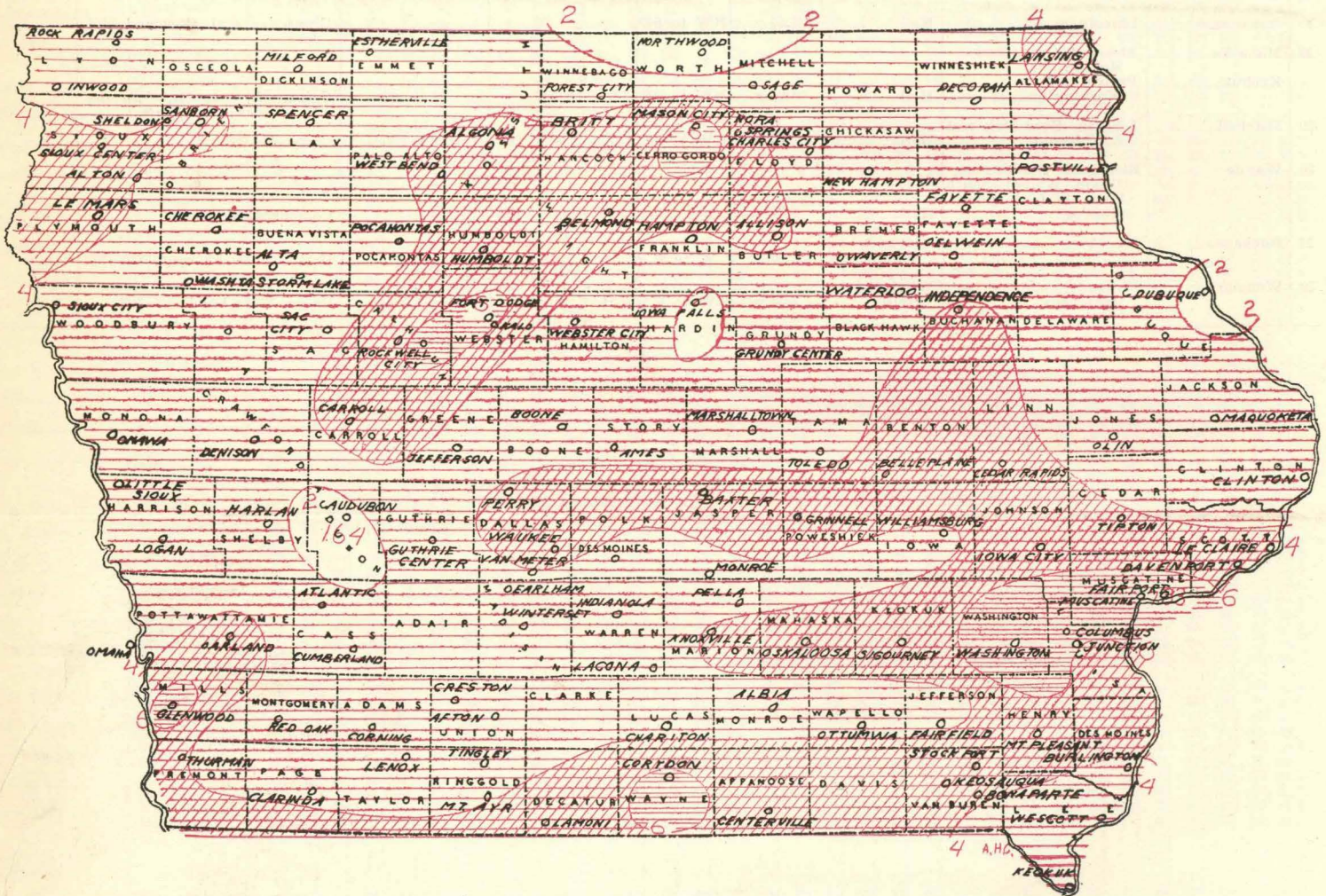
Table with columns for Stations, days 1-31, and Mean. Rows are grouped by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

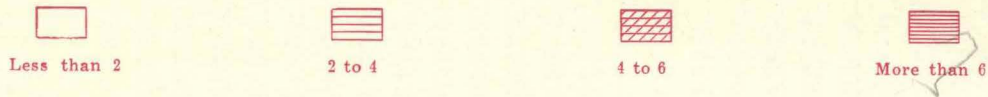
IOWA STORMS DURING AUGUST, 1926

Date	County	Township	Nature of Storm	Time	Storm Moved From	Width of Path Miles	Length of Path Miles	Area Sq. Miles	Size of Hailstones Inches	DAMAGE	Persons	
											Injured	Killed
13	Boone Story	Garden Washington and Palestine										
	Polk	Union and Madison	Hail	3:00 p.	NW to SE	2	5	10	Peas to 2"	Some to buildings; considerable to crops \$2,500 to corn, orchards and fruit		
13	Van Buren	Van Buren	Hail	5:00 p.	NW to SE							
16	Fremont	Madison	Hail	8:00 p.	SE to NW				1/2"	Crops, 25%		
17	Plymouth	Stanton, Union and Remsen										
	Cherokee	Amherst and Marcus	Tornado	8:00 p.	SW to NE	1/2				Crops, 50%; some buildings wrecked		
18	Carroll	Jasper	Hail	6:00 p.	NE to SW				Walnuts	Crops, 25%		
18	Mitchell	Rock and Cedar	Hail	4:00 p.						Very destructive in places		
20	Appanoose	Lincoln	Hail	5:00 p.	NW to SE					Crops, several thousand dollars		
20	Mahaska	Pleasant Grove and Monroe										
	Keokuk	Prairie and Washington	Hail	9:00 p.	NW to SE	3 to 4			1/2 to 2"	Crops, \$5,000 to \$10,000; some to windows and fruit		
20	Mitchell	Liberty, Burr Oak and E. Lincoln	Hail	7:30 p.	NW to SE	2 1/2	8	20	Marbles to Hen's Eggs	Crops, \$50,000		
20	Wayne	Richman, Washington, Union, Wright, South Fork, Walnut and Monroe	Hail	7:00 p.		1	12	12		Considerable		
23	Buchanan	Westburg	Hail and Wind	2:00 p.	W to E				Small	Crops, \$1,000 by wind, \$100 by hail		
29	Wapello	Pleasant and Dahlonga	Wind and Hail	2:00 p.	W to E	1			Hazel Nuts	Crops, \$500; buildings \$100		

TOTAL PRECIPITATION, AUGUST, 1926



SCALE OF SHADES IN INCHES



CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

MISCELLANEOUS PHENOMENA

Aurora: 8th, 9th.
Fog: 2d, 3d, 4th, 5th, 6th, 14th, 15th, 16th, 27th, 29th, 30th.
Frost: Light, 13th, 24th; Heavy, 25th, 26th; Killing, 25th, 26th.
Hail: 1st, 3d, 15th, 16th, 17th, 30th.
Halos (lunar and solar): 7th, 26th.
Rainbows: 2d, 3d, 18th.
Sleet: 24th.
Thunderstorms: All dates except 9th, 13th, 20th, 26th, 28th.

VOL. XXXVII DES MOINES, IOWA, SEPTEMBER, 1926 No. 9

GENERAL SUMMARY

The outstanding feature of the weather during September was the frequent and abnormally heavy rain over practically the entire State. While some stations in the past have reported greater amounts than the greatest this month, the average for the State was the greatest for any month, exceeding the greatest previous monthly amount, 8.77 inches in May, 1892, by almost one inch, the records covering a period of 54 years. The previous record for September was exceeded by nearly two inches. The heavy rains began on the 1st of the month and continued with remarkable persistency, and only short intermissions, till the early part of the 4th week with light to moderate amounts during the rest of the month. There were three more days with .01 inch or more of rain, four more cloudy days and three less clear days than in any other September.

The temperature was above normal most of the month but a decided change to cooler during the last week offset the excess and resulted in a deficiency at all but a few stations. While no records for low temperatures were established for the State, several stations reported on the 26th the lowest ever experienced so early in the season.

Conditions were especially bad from an agricultural standpoint. The persistent rainy weather caused almost all outdoor work to be suspended and delayed the maturity of the corn crop so that when the freezing weather occurred on the 25th and 26th there was considerable damage. Plowing and seeding of winter wheat were impossible after the first heavy rains and many fields, partly seeded, germinated and showed good growth with the balance of the fields unplanted and the drills standing where the work stopped. There was some small grain and clover to be hulled that had to be abandoned due to the excess moisture. Corn fields were so soft in portions of the State that it was impossible to cut corn for silo filling with the result that there will be many empty this year. Truck crops were in a flourishing condition when the frost came, resulting in almost complete destruction in all but a few southeastern counties. Corn in many parts of the State was beginning to mold, rot or sprout. However there was some material benefit derived from the excessive rainfall. The soil is now thoroughly saturated, wells that were dry have a good supply of water and pastures at the end of the month were better than at any time during the year. The damage to crops due to the weather was very great but there is no way to make a reliable estimate. A special report on the flood situation and the damage to property appears elsewhere in this issue.

F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 103 stations, was 63.0°, or 1.3° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 61.0°, or 1.9° lower than the normal; Central, 63.4°, or 1.1° lower than the normal; Southern, 64.7°, or 0.9° lower than the normal. The highest monthly mean was 66.4°, at Burlington and Ottumwa, and the lowest was 58.6°, at Postville. The highest temperature reported was 92° at Oakland on the 1st, Belle Plaine, Little Sioux, Monroe and Mount Pleasant on the 17th, and Davenport, No. 2 on the 17th and 18th, and the lowest was 18°, at Decorah, on the 26th. The temperature range for the State was 74°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 113 stations, was 9.76 inches, or 6.11 inches more than the normal. By divisions, the averages were as follows: Northern, 7.76 inches, or 4.33 inches more than the normal; Central, 10.19 inches, or 6.50 inches more than the normal; Southern, 11.32 inches, or 7.49 inches more than the normal. The greatest amount, 18.57 inches, occurred at Corydon, and the least, 4.75 inches, occurred at Mason City. The greatest amount in 24 consecutive hours, 11.66 inches, occurred at Sioux Center, on the 17th-18th, 11.52 inches having occurred in a period of 14 hours and 30 minutes.

RIVERS

Nearly stationary stages, but with a falling tendency, prevailed on the Mississippi River till the latter part of the 2d week, after which there was a gradual rise with the mean stage for the month considerably above the normal. There was considerable fluctuation on the Missouri River with rather high stages during the 3d week but the flood stage was not reached on either of the principal rivers. Destructive floods occurred on most of the smaller streams in the western, southern and east-central portions of the State. Following the heavy rains on the 17th-18th, the highest stages ever experienced occurred on the Big Sioux, Floyd and Raccoon Rivers.

COMPARATIVE DATA FOR THE STATE—SEPTEMBER

YEAR	Temperature				Precipitation					Number of Days			
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	59.1	- 5.2	89	33	2.18	- 1.47	5.40						
1874.....	62.8	- 1.5	90	40	6.04	+ 2.30	9.50						
1875.....	60.6	- 3.7	92	37	5.02	+ 1.37	9.38						
1876.....	60.4	- 3.9	86	38	6.42	+ 2.77	12.60						
1877.....	65.4	+ 1.1	96	40	1.95	- 1.70	5.20						
1878.....	62.9	- 1.4	92	38	3.13	- 0.52	10.85						
1879.....	59.3	- 5.0	90	24	2.70	- 0.95	9.45						
1880.....	61.1	- 3.2	90	30	4.18	+ 0.53	11.64						
1881.....	64.5	+ 0.2	103	37	7.14	+ 3.49	13.35						
1882.....	63.4	- 0.9	97	31	0.87	- 2.78	3.71						
1883.....	58.5	- 5.8	93	30	2.04	- 1.61	6.20						
1884.....	66.5	+ 2.2	95	30	5.20	+ 1.55	11.00						
1885.....	61.7	- 2.6	92	32	3.04	- 0.61	5.59						
1886.....	63.0	- 1.3	97	30	4.68	+ 1.03	7.93						
1887.....	62.1	- 2.2	98	30	6.17	+ 2.52	12.87						
1888.....	59.9	- 4.4	96	26	1.07	- 2.58	3.44						
1889.....	60.7	- 3.6	96	23	2.80	- 0.85	7.19						
1890.....	59.5	- 4.8	96	23	2.71	- 0.94	4.85						
1891.....	67.3	+ 3.0	104	28	1.33	- 2.32	3.60			4	20	7	3
1892.....	64.7	+ 0.4	99	29	1.53	- 2.12	4.15			4	16	8	6
1893.....	64.7	+ 0.4	102	18	2.34	- 1.31	5.49			4	20	6	4
1894.....	65.1	+ 0.8	100	26	3.57	- 0.08	7.43			8	15	10	5
1895.....	66.8	+ 2.5	103	22	3.03	- 0.62	7.43			5	18	8	4
1896.....	58.5	- 5.8	95	22	4.09	+ 0.44	9.96			10	11	9	10
1897.....	70.9	+ 6.6	106	26	2.04	- 1.63	5.88			4	23	5	2
1898.....	65.3	+ 1.0	99	29	2.69	- 0.96	8.45			7	16	9	5
1899.....	62.5	- 1.8	104	15	0.93	- 2.72	4.32			4	16	9	5
1900.....	64.4	+ 0.1	99	26	4.98	+ 1.33	8.82			9	15	8	7
1901.....	63.3	- 1.0	102	26	4.77	+ 1.12	13.62			9	13	9	8
1902.....	59.1	- 5.2	88	23	4.35	- 0.70	10.41			9	15	6	9
1903.....	60.8	- 3.5	91	28	3.81	- 0.16	8.79			10	14	6	10
1904.....	64.0	- 0.3	94	30	2.78	- 0.87	8.33			7	13	8	9
1905.....	65.8	+ 1.5	96	36	3.81	+ 0.16	13.18			8	14	8	8
1906.....	67.2	+ 2.9	100	27	4.16	+ 0.51	11.10			8	16	8	6
1907.....	62.8	- 1.5	98	25	2.75	- 0.90	6.06			8	15	9	6
1908.....	67.9	+ 3.6	98	20	1.20	- 2.45	3.46			3	21	6	3
1909.....	62.4	- 1.9	94	30	3.58	- 0.07	7.34			9	14	8	8
1910.....	63.2	- 1.1	99	30	3.59	- 0.06	7.43			9	14	7	9
1911.....	65.8	+ 1.5	103	32	5.12	+ 1.47	13.73			10	11	9	10
1912.....	62.1	- 2.2	104	24	3.98	+ 0.33	10.12			11	12	8	10
1913.....	64.5	+ 0.2	107	19	3.31	- 0.34	7.44			9	15	8	7
1914.....	64.5	+ 0.2	99	30	7.88	+ 4.23	16.24			10	16	7	7
1915.....	63.7	- 0.6	91	30	6.03	+ 2.38	12.45			11	11	8	11
1916.....	62.5	- 1.8	98	21	3.89	+ 0.24	9.71			7	17	8	5
1917.....	62.6	- 1.7	97	28	2.90	- 0.75	8.63			7	15	7	8
1918.....	58.6	- 5.7	93	20	1.87	- 1.78	4.62			6	16	8	6
1919.....	67.5	+ 3.2	99	33	5.34	+ 1.69	11.82			8	16	6	8
1920.....	66.5	+ 2.2	98	24	3.30	- 0.35	7.21			8	17	8	5
1921.....	67.3	+ 3.0	99	31	6.72	+ 3.07	11.95			11	14	8	8
1922.....	67.1	+ 2.8	103	31	2.03	- 1.62	4.34			6	20	6	4
1923.....	64.2	- 0.1	92	28	5.79	+ 2.14	12.14			11	14	8	8
1924.....	59.1	- 5.2	91	25	3.13	- 0.52	5.68			8	16	7	7
1925.....	69.0	+ 4.7	105	32	5.04	+ 1.39	9.13			9	14	10	6
1926.....	63.0	- 1.3	92	18	9.76	+ 6.11	18.57			14	8	7	15

Indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for September, 1926—Continued

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit							Precipitation, in inches					Number of Days				Prevailing direction	OBSERVERS
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy			
																			7 a. m.			12 Noon	7 p. m.	Lowest	Date	Total movement	Average hourly velocity	Miles	From	Date	% possible	Departure from normal
<i>Southern Division</i>																					
Afton.....	Union.....	1,212	32	65.4	+ 0.3	89	17†	30	26	31	10.06	+ 5.68	1.90	0	17	8	8	14	sw.	S. R. Brown	
Albia.....	Monroe.....	956	28	65.0	- 0.4	89	2†	31	26	29	11.53	+ 7.47	3.02	0	20	7	5	18	sw.	O. E. McBride	
Atlantic.....	Cass.....	1,164	35	63.9	- 1.1	87	17	29	26	30	7.93	+ 4.52	1.20	0	19	5	1	24	sw.	T. H. Whitney	
Bonaparte (near).....	Van Buren.....	563	35	65.1	- 0.8	83	18	29	26	32	10.57	+ 6.44	2.43	0	17	12	6	12	e.	B. R. Vale	
Burlington.....	Des Moines.....	544	30	66.4	- 0.8	90	2†	33	26	28	14.30	+10.38	3.95	0	19	11	4	15	se.	John W. Donnelly	
Centerville.....	Appanoose.....	1,013	21	64.2	- 1.4	81	1†	28	26	34	12.61	+ 8.51	4.56	0	18	7	4	19	se.	Thomas Wood	
Chariton (near).....	Lucas.....	1,042	31	64.8	0	87	17†	29	26	37	13.88	+ 9.74	2.65	0	15	8	8	14	sw.	C. C. Burr	
Clarinda.....	Page.....	1,009	36	61.2	- 2.1	88	17†	29	26	32	17.67	+14.20	5.74	0	19	9	13	8	s.	Dr. H. C. Hawley	
Columbus Jct.....	Louisa.....	595	25	64.3	- 1.8	87	17	29	26	32	11.24	+ 7.58	1.98	0	16	7	11	12	e.	Miss Musa Todd	
Corning (near).....	Adams.....	1,117	34	63.9	- 1.0	88	18†	27	26	30	10.21	+ 6.29	2.15	0	14	11	4	15	sw.	Jerome Smith	
Corydon.....	Wayne.....	1,101	33	65.2	- 0.5	88	17†	28	26	33	18.57	+14.48	5.50	0	16	8	8	14	se.	A. T. Gallagher	
Creston.....	Union.....	1,312	21	61.0	- 0.1	87	17†	28	26	27	9.56	+ 5.56	1.45	0	21	10	4	16	sw.	J. W. Goodsell	
Cumberland (near).....	Cass.....	1,225	27	64.1	- 0.4	87	17†	28	26	30	7.58	+ 4.20	1.88	0	13	8	4	18	se.	Carl E. Pollock	
Earlham (near).....	Madison.....	1,126	24	61.5	+ 0.4	87	17†	25	26	30	8.12	+ 4.43	1.96	0	14	11	2	17	e.	George Phillips	
Fairfield.....	Jefferson.....	780	42	65.0	- 0.6	91	17	25	26	35	12.06	+ 9.03	2.59	0	16	9	4	17	s.	R. M. McKenzie	
Glenwood.....	Mills.....	1,100	28	64.6	- 2.1	88	16†	30	25†	30	10.39	+ 7.71	3.18	0	15	7	11	12	se.	Dr. George Mogridge	
Indianola.....	Warren.....	972	35	64.6	- 1.0	88	17	28	26	27	6.97	+ 3.24	1.22	0	13	9	6	15	se.	Seth F. Shenton	
Keokuk.....	Lee.....	614	55	66.2	- 1.3	90	17	28	26	26	12.56	+ 8.70	3.25	0	16	6	9	15	s.	U. S. Weather Bureau	
Keosauqua.....	Van Buren.....	644	34	64.0	- 1.8	90	17†	27	26	30	9.55	+ 5.35	2.04	0	15	6	8	16	se.	J. H. Landes	
Knoxville.....	Marion.....	920	31	65.1	- 0.7	89	18	28	26	34	11.44	+ 6.34	1.60	0	15	8	5	17	se.	W. J. Casey	
Lacona.....	Warren.....	824	27	64.1	- 0.4	87	16†	29	26	29	9.65	+ 5.29	2.50	0	15	6	13	11	.....	J. B. Alter
Lamoni.....	Decatur.....	1,123	19	64.3	- 0.4	87	18	28	26	29	14.64	+10.63	3.37	0	19	8	5	17	sw.	F. S. Parks	
Lenox.....	Taylor.....	1,250	31	64.3	- 1.4	89	18	28	26	32	12.59	+ 8.38	3.74	0	19	9	8	13	ne.	J. L. Hurley	
Mount Ayr.....	Ringgold.....	1,245	33	63.5	- 1.9	86	17†	29	26	30	14.64	+10.69	2.86	0	17	9	4	17	s.	Alex Maxwell	
Mt. Pleasant.....	Henry.....	729	45	65.6	- 0.5	92	17	30	26	32	11.44	+ 7.91	2.60	0	16	7	9	14	e.	J. H. Jericho	
Oakland.....	Pottawattamie.....	1,105	7	65.0	- 0.1	92	1	27	26	29	6.50	+ 2.00	2.20	0	10	13	1	16	n.	M. E. Gray	
Oskaloosa.....	Makaska.....	835	50	61.0	- 0.9	87	17†	28	26	32	10.44	+ 7.04	2.16	0	16	8	5	17	se.	Roy R. Robinson	
Ottumwa.....	Wapello.....	649	31	66.4	- 0.9	89	17†	31	26	31	12.93	+ 9.08	3.65	0	17	10	8	12	s.	C. L. Mikesch	
Red Oak (near).....	Montgomery.....	1,030	1	64.0	- 0.9	87	17†	28	26	32	10.44	+ 7.04	2.16	0	16	8	5	17	se.	B. R. Bridge	
Riverton (near).....	Fremont.....	920	1	64.0	- 0.9	87	17†	28	26	32	10.44	+ 7.04	2.16	0	16	8	5	17	se.	George C. Rader	
Sigourney (near).....	Keokuk.....	790	30	64.4	- 0.7	88	17†	30	26	33	9.66	+ 5.97	1.72	0	15	10	1	19	sw.	W. E. Utterback	
Stockport.....	Van Buren.....	747	24	65.4	+ 0.4	90	17	27	26	35	10.86	+ 6.77	2.23	0	18	12	4	14	s.	C. L. Beswick	
Thurman.....	Fremont.....	960	29	66.2	+ 0.5	91	21	28	26	31	8.36	+ 4.10	1.56	0	12	6	9	15	s.	C. R. Paul	
Tingley.....	Ringgold.....	1,275	1	63.8	- 1.9	86	21	29	26†	31	14.31	+ 10.69	2.86	0	16	10	4	16	se.	James A. Verploegh	
Washington.....	Washington.....	769	44	61.9	- 0.3	90	18	29	26	30	12.78	+ 9.40	3.35	0	17	7	6	17	e.	D. D. Sherman	
Wescott (near).....	Lee.....	523	4	64.1	- 0.4	87	16†	29	26	32	11.44	+ 7.91	2.60	0	16	7	9	14	.....	Lester J. Larson
Winterset.....	Madison.....	1,129	35	64.4	- 1.1	88	17†	29	26	34	7.16	+ 3.41	1.10	0	13	9	5	16	se.	H. S. Ely	
Omaha, Neb.....	Madison.....	1,103	55	64.0	- 2.8	89	16	33	25	35	8.85	+ 5.82	1.95	0	14	8	8	14	s.	U. S. Weather Bureau	
Means and extremes.....				61.7	- 0.9	92	1†	25	26	37	11.32	+ 7.49	5.75	0	16	8	7	15	se.		
State means and extremes.....				63.0	- 1.3	92	1†	18	26	44	9.76	+ 6.11	12.66	T.	14	8	7	15	se.		

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means. Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc. †Also other dates. ‡Temperature not included in means. ††Received too late to be included in means and summaries. T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level)					Relative Humidity, %				Wind			Sunshine				
	Mean	Highest	Date	Lowest	Date	7 a. m.	12 Noon	7 p. m.	Lowest	Date	Total movement	Average hourly velocity		Maximum			
														Miles	From	Date	
															% possible		
															Departure from normal		
Charles City.....	30.02	30.54	25	29.66	23	89	67	78	34	9	4,926	6.8	28	s.	21	46	-16
Davenport.....	30.03	30.52	26	29.63	23	89	72	77	40	26	4,679	6.5	22	s.	8	35	-30
Des Moines.....	29.99	30.56	25	29.56	23	88	72	76	33	25	5,245	7.3	34	sw.	21	36	-26
Dubuque.....	30.01	30.51	26	29.59	8	87	69	77	37	26	4,319	6.0	22	s.	21	29	-30
Keokuk.....	30.03	30.53	26	29.68	23	86	71	78	37	26	4,430	6.0	29	sw.	3	45	-21
Sioux City.....	29.98	30.67	25	29.45	30	87	65	68	27	25	8,837	12.3	43	nw.	17	51	-12
Omaha, Neb.....	29.98	30.64	25	29.58	23	85	66	72	34	25	5,236	7.3	30	se.	2†	53	-12
Means and extremes.....	30.01					87	69	75				7.5				42	-21
Normals and records.....	30.02		25th		30th	83	64			28th		7.2			7th	63	
	*30.67		1926	29.27	1878		81			18	1921		112	w.		1872	

*Sioux City. †Omaha. ‡Davenport. ††Local mean time. ††Other dates.

FLOODS IN IOWA DURING SEPTEMBER, 1926

(Arthur H. Christensen, Observer)

Unprecedented rains in September caused floods over a large part of Iowa, the heaviest being in the southern, eastern, north-western and the central sections. Many small streams in various parts of the State left their banks at different times during the month and caused more or less damage. The following summaries of the principal flooded areas have been prepared from various reports and newspaper clippings and cover the sections where the most destruction occurred.

Floods In Southwest Iowa

Beginning Setember 1, heavy rains fell in the southern portion of the State and by the 2d and 3d, floods were prevalent in much of that section. At the station known as Red Oak (near) in the extreme southwest portion of Montgomery County in the Nishnabotna drainage basin, 5.75 inches of rain fell in 19 hours and 3.25 inches of this fell in the 2 hours ending 10 a. m. of the 2d, with 1.12 inches the following night. Near Riverton the rains were nearly as heavy. Creeks and rivers became swollen and left their banks in places. Overflows soon occurred in the lower reaches of the Nodaway River in the vicinity of Clarinda and the Nishnabotna River in Fremont county. Considerable damage occurred in this vicinity, much property being flooded and about 1,400 feet of track of the Chicago, Burlington & Quincy R. R. were washed out, causing a suspension

Daily Precipitation for September, 1926

Stations	Drainage Basin	Day of Month																															Totals		
		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			
<i>Northern Division</i>																																			
Algona.....	Des Moines.....	.09		.55	.12				1.92								.58		5.10	1.00				1.00											10.36
Allison (near).....	Cedar.....	1.09		.25		.45			1.88		.02			.08					1.24	.98				.54	.01						.02			6.36	
Alta|||.....	Raccoon.....	2.10		.15	.53	.16			2.50					.03				.14	2.95	2.70				.18	.08					.05			11.57		
Alton.....	Floyd.....	.55		.23		.08			1.65		.01			.08					3.22	.02	T.			.40						.02			6.28		
Belmond.....	Iowa.....	.50		.23		.20			1.52		.03			.02	.03				2.30	.62				.73						.21			6.39		
Britt.....	Iowa.....	.17		.64	T.	.11			1.74		T.			.05			.40		1.67	.45				.30	T.					.10			5.63		
Charles City ***.....	Cedar.....	.51		.07	T.	.42		.15	1.61		.08		T.	T.	.04	T.	T.	1.47	.21	T.	T.		.46							.10			5.12		
Cherokee.....	Little Sioux.....	4.97	T.	.52	.02	.08	.01		2.71		.02		T.	T.	.04	T.	.08	3.95	.11	T.	.03		.29	.01				T.	.06			12.90			
Decorah|||.....	Mississippi.....	.35		.05	.31	.45			35	1.48			T.		.10	.20	.07	.02	.99				.20	.24					.03			4.94			
Dubuque ***.....	Mississippi.....	.22	T.	.18	.01	.61	T.		1.49		.01			.09	.46			.45	.56				.65	.24				T.	.47			5.48			
Estherville|||.....	Des Moines.....			.20	.10	.03	.02		1.75					.02			.01	3.30	.35			T.	.30	.25					.05			6.38			
Fayette.....	Mississippi.....	.42	T.	.07	.25	.73	T.	.05	1.35		T.			.42	.14			.43	1.55			*	*	1.80					.12			7.33			
Forest City|||.....	Cedar.....	.05		.08	.73		.06		1.75	.08				.05	T.		.15	2.14	.78				.08	.12	T.				.09			6.07			
Hampton.....	Cedar.....	1.45		.18		.36		1.98			T.			.08		.02		*	2.00				.83	.02					.03			7.04			
Hawarden.....	Big Sioux.....	.19		.25		.04			2.89					T.			7.30	2.89			T.		.01	.13					.02			13.72			
Humboldt.....	Des Moines.....	.32		.77	T.	.17			2.00		T.		T.	.09	T.	.12		.73	.89	T.			.46						.08			5.63			
Independence.....	Wapsipinicon.....	.34		.38	.04	.71			1.37					.27	.65	.07		.17	2.15				.49	.57					.08			7.37			
Inwood|||.....	Big Sioux.....			.29		.01		T.	2.61					T.			.09	3.25	.11			.03	T.	.07					.07			6.46			
Lansing |||.....	Mississippi.....	.05	.06	.02	.12		.57	T.	1.55				.04		.45	.04		.90	.02				.56	1.38					.10			5.86			
Le Mars.....	Floyd.....	.19		.44	.09	T.			1.67		T.		T.	.09				3.33	.15	T.	T.		.83	T.					T.			6.79			
Mason City.....	Cedar.....	.38		.38	.45	.21			1.48		.04			.04				.72	.42	T.			.40	T.					.02	.02		4.75			
Milford (near).....	Little Sioux.....								2.50					T.		.65	2.81	.04	T.	T.	T.	.74	T.						.05			*	*		
New Hampton.....	Wapsipinicon.....																																		
Nora Springs.....	Cedar.....	.58		.21		.26	.02		1.49		.06			.06	.04	.01		1.10	.29			T.	.58	.07					.16			4.93			
Northwood.....	Cedar.....	.09		.20	.22	.20	.02	.06	1.67		.07			.06	.07		2.91	.11	T.				.54	.03					T.			6.30			
Oelwein.....	Wapsipinicon.....	.45		.20	.75	.70			1.50		T.			.90	.40			.40	2.30				.90	.10					1.20			9.80			
Osage.....	Cedar.....	.40		.27	.02	.26		.27	1.50		.04			.07	.63			1.25	.07				.73	.02					.18			5.71			
Pocahontas.....	Des Moines.....	.18		1.20		.13			2.18		T.			.03		.10		2.87	.78				.40	.04					.04			7.95			
Postville.....	Mississippi.....	.57	T.	.11	.04	.62	.08	.17	1.22		.05			.27	.30			.46	.71				1.65	.95				.12	.12			7.44			
Rock Rapids.....	Big Sioux.....	.03		.21		.04			2.56						T.	.18	2.85	.06				.02	.12					.06				6.13			
Sanborn.....	Floyd.....	.39		.33	.05	.09			2.00					T.		1.85	4.65	.03				.45										9.84			
Sheldon.....	Floyd.....	.19		.19	T.	.07			1.43					T.		.01	3.00	4.33	.03			.01	T.	.22					.04			9.52			
Sioux Center.....	Floyd.....	.77		.17		.11			3.16		T.			T.		T.	5.98	5.68	.16	T.			.06					T.	.03			16.12			
Spencer.....	Little Sioux.....	.04		.30		.06			2.07					.03			.55	4.90	.15				1.50						.05			9.69			
Storm Lake.....	Raccoon.....	1.37	T.	.90		.14			2.55				T.	.03		.18	4.62	.69	.01	.01			.32					.04				10.86			
Washta.....	Little Sioux.....	.90	T.	1.36		.16			2.75		.02		T.		T.	.09		4.63					.06	.03					T.	T.		10.00			
Waterloo|||.....	Cedar.....	.48		.24	.03		.65		1.05				.03		.46	.19			3.93	T.			.16	.97					.14			8.33			
Waverly.....	Cedar.....	.64		.17	.04	.37			1.55					.13	.03			1.05	1.05				.71	.02					.13			5.89			
West Bend.....	Des Moines.....			.49	T.	.14	T.	T.	1.85		.03			T.		.22	T.	2.60	.41		T.		.30	T.					.06			6.10			
<i>Central Division</i>																																			
Ames.....	Skunk.....	.59	.02	.77	T.	.54			3.51		.01			.13	.55			2.30	1.86				.60	.39	T.			.04	.76			12.07			
Audubon.....	Nishnabotna.....	2.00	.26	.94		.15			.78					.24	1.18	.24		1.75	1.38				.75	.54				.04	.02	.08			10.35		
Baxter.....	Skunk.....	.45	.05	1.00	.80	.84			2.00		T.	.46		.18	.65			.50	5.64				.45	.25	.10			.05	.46	T.		13.88			
Belle Plaine.....	Iowa.....	.50		.98	.43	1.33			1.68		T.	.71		.11	.77			3.74	T.			.66	.29	.06				.07	.08	.11		11.52			
Boone|||.....	Des Moines.....	.58		.81		.25	.20		3.53		.12			.09	.72		.01	4.22				.65	.25	.26				T.	.08			11.77			
Carroll|||.....	Raccoon.....	4.20	.03	1.02	.05	.14			2.03					.12	.37				4.90				.25	.40	.78				.10			14.39			
Cedar Rapids|||.....	Cedar.....	6.65	.05	.65	.48	T.	.98		1.21	.15		.38		.87	T.			2.11				.19	.28	.10				.07		.09		8.26			
Clinton.....	Mississippi.....	1.21		1.40	.02	1.23			1.04				.34		.40	T.			.52			.04	1.93	.03	.32			.01	T.	.20		9.09			
Davenport ***.....	Mississippi.....	.75	.03	1.04	.06	.68			1.14				.37		1.32	.47			.80	.08			.77	.27	.34	.44		.06	T.	.18	.44	8.80			
Davenport (No.2).....	Mississippi.....	1.18	.08	1.16	.08	.75			1.31		.56			.96	.82			.72	.02			.62	.04	.62	.02		.12	.02	T.	.39		9.47			
Denison.....	Missouri.....	3.36		.75		.18			2.13		.01			.10	.25			1.21	.69			.52	.78	.03					.03			10.07			
Des Moines ***.....	Des Moines.....	.47	.25	1.30	.11	.91			.84		T.	.35		.99	.32	T.		1.51	1.01	T.		1.63	.17	T.				.32	.02		10.25				
Fairport.....	Mississippi.....	1.84	.07	1.03	.17	1.17	.04		1.31		.12		1.10	1.09				.67	.02			.61	.52				.09	.01	.35		10.21				
Fort Dodge|||.....	Des Moines.....	.47		.33	.32	.08	.06		2.19					.03	.09		T.	T.	2.25				.40	.34					.04			6.60			
Grinnell.....	Iowa.....	1.23		1.75	2.14	.80			2.10		.29			.12	.96			2.05				.90	.12	.10				.07	.11	.13		12.87			
Grundy Center.....	Cedar.....	1.82		.45		.58			1.80		.04			.35	.20	T.		3.58	1.07			.15	.52	.10				.18	.24		11.08				
Guthrie Center.....	Raccoon.....	2.04	.14	1.07		.22			1.04			.60		.18	1.30	.90		.28	3.28				.83	.28				.15	.20		12.51				
Harlan.....	Nishnabotna.....	2.90	.11	.74		.12			.86			.14		.17	.82	.01		1.09	.50			.85	.78					.14	.02		9.16				
Iowa City|||.....	Iowa.....	2.22		.46	.53	.03	.68		.83	.16		.01		1.00				1.64				2.17	.23	.22	.01			T.	.03		10.46				
Iowa Falls|||.....	Iowa.....	1.41		.23	.08		.50		2.10		.02			.02	.15			2.78					.11	.60					.14			8.14			
Jefferson.....	Raccoon.....	1.76	T.	.56</																															

Daily Precipitation for September, 1926—Continued

Stations	Drainage Basin	Day of Month																													Totals		
		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
<i>Southern Division</i>																																	
Afton	Grand	.27	.30	1.60	.02	1.90							.54		.28	.48	.40			.48			1.65	.20			.01	.07			.40	.06	10.06
Albia	Des Moines	.43	.28	3.02	1.01	.02	.75		.96	.28		.42		.28	2.02					.38	.16	.01	1.08	.21	.14	.01	.06	.07		.22	.05	11.53	
Atlantic	Nishnabotna	1.20	.33	1.18	.02	.17	.03		.85			.63		.24	.84	.10		.01	.73	.02	.91	.43	.15	.04	T.	.04	.05		.05		7.93		
Bonaparte (near)	Des Moines	.10	.15	2.34	.95	.34		2.43			.40		.37	1.58	T.					.87	.12		T.	.12	.04	T.	.30	.03	.08	.35	10.57		
Burlington	Mississippi	.87	.10	1.35	3.95	.27	.34		.16	2.67		.80	T.	.03	1.42					.78	.06		T.	.32	.17		.03	.33	.01	.64	14.30		
Centerville	Chariton	.06	.49	3.49	1.07	.57		1.76			.39		.54	1.86	.01		1.20	.08			.04		.07	.06	T.	.34	.05	.53			12.61		
Chariton (near)	Chariton	.38	.40	2.65	.78	.52		2.05			1.65		.35	1.55			.77				1.65		.28	.07	.15	.15	.35				13.68		
Clarinda	Nodaway	1.20	3.11	5.74	.44	.55	.30		1.04		1.63	.02	.16	.83	.11		.82	.01	.99	.36	.06	.04		.06	.04		.26			17.67			
Columbus Jct.	Iowa	1.98	.09	1.32	.21	.70		1.52			.09		1.50	1.62					.62	.46	.03	.41	T.	.17	.11	.11		.11	.14	11.24			
Corning (near)	Nodaway	.97	.31	1.29	.10	1.00		2.15			.51		.40	.70	.08					.25		1.75	.20				.50			10.21			
Corydon	Chariton	.19	.42	5.59	1.00	.84		3.14			.33		.82	3.79	.05		1.04				.60		.03	.23	.07	.43				18.57			
Creston	Missouri	.62	.25	.75	.25	.65	1.00		1.45	.10		.25		.25	1.16	.65	.05		.25	.10		1.22	.23	.13		.02	.01	.17		.47	9.56		
Cumberl'd (near)	Nodaway	.70	1.13	.83	T.	.51	.73		.73		T.		.25	1.03	.02	T.		.21		1.88	.19		.02	.08		.02	.08			7.58			
Earlham (near)	Des Moines	.34	.23	1.96	T.	.73		.84			.29	.87	.16		1.01					1.30	.05		.03	.19	.12		.19	.12			8.12		
Fairfield	Skunk	.24	.40	1.88	1.37	.84		2.59			.28		.53	2.23					.52	.02		.12		.56	T.	.28	.44	.36			12.66		
Glenwood	Missouri	.12	.84	3.18		.27		2.28			.02		.34	1.22		.16	.44			1.36	.02		.04	.06	.04		.06	.04			10.39		
Indianola	Des Moines	.26	.16	.85	.40	1.22		.71			.02		.47	.84						1.05	T.	T.	T.	T.	.15	.15	.35			6.97			
Keokuk**	Mississippi	.04	.17	1.49	2.43	.10		2.10			.32	.06	.58	.55	T.		2.93				T.	.12	T.	T.	.44	.02	.46	.75	12.56				
Keosauqua	Des Moines	.16	1.80	1.86	.36		2.00	.04			.69	.39	T.		.60	.18				.60	.18		.25	.33	.02	.22	.65			9.55			
Knoxville	Des Moines	.78	.15	1.13	1.15	.85		1.18			.40		.24	1.50		.48				1.60	.03	.17		T.	.10	.72			10.48				
Lacona	Des Moines	.18	.20	.52	2.01		1.04			.50		.40	.70		1.03					2.50	.03	.02		.12	.21	.19			9.65				
Lamoni	Grand	.14	.65	3.37	1.17	.23	.52		2.35	.59		.35	T.	.17	2.01	.27		1.73		.72	.02	.05		.12	.05	.13			14.64				
Lenox	Missouri	.48	.50	3.74	.07	1.95	.02		1.45		.65		.36	1.20	.13		.45	.01	1.04	.15	.05		T.	.04	.28	.02			12.59				
Mount Ayr	Grand	.19	1.24	2.86	.08	1.94		2.79			1.06		.48	1.23	.15		1.01		.78	.33	.12		T.	.13	T.	.16	.09			14.64			
Mt. Pleasant	Skunk	.26		2.38	.39	.45		2.60			.25		.40	2.35		.31				.18	.01	.51		.43	.02	.24	.66			11.44			
Oakland	Nishnabotna			.08		.07	T.	1.20					.21	1.20	.02		.42	.68			2.20	.42				.54			6.50				
Oskaloosa	Des Moines	.12	.15	1.75	.91	.92		1.39	.02		.16	T.	.35	2.16		.26	T.			1.30		.30		.06	T.	.05	.54			10.44			
Ottumwa	Des Moines	.46	.24	3.65	.34	.73		1.85			.60		.60	2.80		.50	.08			.41		.24	.01		.18	.01	.23			12.93			
Red Oak (near)	Missouri	2.50	3.25	1.12		.60		3.70			.73	T.	.23	.87	.63		.25	.08		1.25	.07			T.	.14			15.34					
Riverton (near)	Nishnabotna	2.57	2.07	.97	.02	1.07		.35			.42		1.47	.50		1.34				1.25	.01		.11			.12			12.27				
Sigourney (near)	Skunk	.15	.07	1.35	.58	.78		1.64			.14		.30	1.72		.16	.30			.90		.84	T.	.04	.02	.67			9.66				
Stockport	Skunk	.05	.14	1.47	.92	.48		2.23	.03		.27		.83	1.89	T.		.83	.16				.23	.03	.36	.04	.40	.50			10.86			
Thurman	Missouri	.14	1.51	1.49	T.	.54		.77			.10		.34	1.56	.06		.39		1.38					T.	.08			8.36					
Tingley	Platt	.20	.75	2.44	.09	2.49		2.03			1.44	T.	.55	1.60	.61		.60		1.01	.01				T.	.11	.27	.11			14.31			
Washington	Skunk	.60	.18	1.50	.24	.96		1.78			.01		.96	3.35		1.04	.02			.72		.54	.06		.02	.01	.76			12.78			
Wescott (near)	Mississippi																																
Winterset	Des Moines	.38	.20	1.10	.10	.97		.85					.52	.75	.04		.85		1.03	T.					.28	.09			7.16				
Omaha, Neb.***	Missouri	1.89	1.03	.57	T.	.19		1.04		.03		T.	1.17	T.		.28	.12			1.82	.22				.06		.03	.40			8.85		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
 ***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.

**Incomplete.
 *Precipitation included in the next following measurement.
 T. Precipitation is less than .01 inch rain or melted snow.

Flood Near Fort Madison

of railway traffic for about one day. No estimate of the damage in dollars is available. No persons were injured.

At Centerville, 4.56 inches of rain fell in about 18 hours ending 5:45 a. m. of the 4th. The Chariton River near Centerville overflowed its banks about 8:30 a. m. of the 3d and continued to rise until the morning of the 5th, (Sunday) when it was from a half mile to a mile wide in places, flooding much farm land and causing considerable damage, although no estimate of the amount is available. The Chariton River then receded to some extent but remained high and again overflowed on September 16 when it reached the highest stage during the month, and within 8 inches of the high water mark of 32 years ago, according to "old-timers" in the vicinity. During this latter high water much damage occurred in Appanoose county, being the worst near Sedan and Dean where railway lines were washed out in several places and trains delayed and some entirely cancelled for a few days on the C. B. & Q., the K. & W. and the I. & St. L.

Floods In Central Iowa

The heavy rains of September 1 and subsequent dates caused flood conditions over a large area throughout the central portion of the State, especially in the vicinity of Carroll where several hundred feet of railway track were washed out, on the C. & N. W. R. R. Minor damage occurred at the time in various places, including Cherokee, and Belle Plaine, although no serious inundations occurred and no persons were injured at these places. Two bridges were swept from their foundations near Carroll, on the Raccoon River, but while the river was high it did not inundate a large area. On the evening of the 7th further heavy rains in Crawford county paralyzed train service on the Illinois Central and the Boyer Valley branch of the Chicago and Northwestern. About a mile of the Illinois Central track was washed out and this seems to have been the most serious damage.

On September 15, the Skunk River near Augusta, Iowa, 12 miles south of Burlington, overflowed its banks after a rise of 8 feet during the night. The stage on the 15th was 17 feet which was within a few inches of the high mark reached about a week previous when streets were flooded and a large farm area was under water. The waters continued to rise on the 15th and the farmers in the vicinity realizing the danger of an overflow worked continuously to strengthen the levee to prevent flooding of the Green Bay Bottoms north of Fort Madison. They were later assisted by about thirty convicts from the penitentiary at Fort Madison, but in spite of their efforts the river rose to such an extent that it broke the levee on the 16th and began overflowing the bottom lands, covering about 10,000 acres by the 17th. Many homes were overflowed but some property was saved while the levee held back the water, and much livestock was driven to high ground, but the loss to crops and property was large, probably close to \$1,000,000. After the 17th the river began to recede.

Floods In Northwest Iowa

The following is quoted from the Hawarden Independent: "Following the most torrential rainfall ever known in this section of the country, (when 7.30 inches of rain fell here in 5 hours, 30 minutes, and 10.19 inches in less than 30 hours). Dry Creek overflowed its banks last Friday (17th) evening and engulfed the city of Hawarden in the most far-reaching catastrophe of its history. Never before has such widespread destruction and desolation been wrought here and those citizens who went through the flood of March, 1897, are agreed that the flood of that year was in no way comparable to last Friday night's disaster.

"In addition to levying a property toll running into hundreds of thousands of dollars, the flood claimed the life of Chas. M.

Daily Maximum and Minimum Temperature for the Month of September 1926

Table with columns for Stations, days 1-30, and Mean. Rows are categorized by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicates respectively 1, 2, 3, etc., days missing.

IOWA STORMS DURING SEPTEMBER, 1926

Date	County	Township	Nature of Storm	Time	Storm Moved From	Width of Path Miles	Length of Path Miles	Area Sq. Miles	Size of Hailstones Inches	DAMAGE	Persons	
											Injured	Killed
1	Taylor	Dallas	Hail	8:00 p.	NW to SE				Marbles	Crops, 10%		
2	Taylor	Dallas	Hail and Wind	9:00 p.	W to E				Marbles	Crops, 25%		
7	Cerro Gordo	Mason	Wind	11:30 p.	SW to NE	1/2				Several buildings blown over		
7	Hancock	Ell	Tornado	10:30 p.	SW to NE					Several buildings blown down		
7	Kossuth	Harrison	Wind	11:00 p.	W to E	20 rds				Several buildings blown down		
7	Kossuth	Ledyard	Wind	11:00 p.	W to E	20 rds				Several buildings blown down		
7	Winnebago	Norway	Wind	11:00 p.	W to E					Several buildings blown down		
7	Winnebago	Buffalo	Wind	11:00 p.	W to E					Several buildings blown down		
8	Adair	Richland	Wind	2:45 a.	W to E					Buildings, \$5,000; Crops, \$15,000		
8	Harrison	Jefferson	Hail	2:00 a.	N to S				Small	Some damage to orchards		
9	Hancock	Concord	Wind	11:30 p.	W to E					Damage to light and power lines		
15	Emmet	Ellsworth	Hail	Noon	SW to NE				1/2	Light to buildings		

Fleshman, one of Hawarden's oldest and best known citizens.....
The flood came with startling suddenness. It had rained almost incessantly all afternoon but practically no one anticipated the danger until the creek went out of its banks east of the ball park and sent a veritable wall of water surging across the lower levels on both sides of the stream. The creek went out of its banks a few minutes after six o'clock and within a quarter of an hour water was running three to four feet deep in many of the streets of the city, including the down-town business section."

The water rose to a depth of three to four feet in the business section and much of the residence section, causing severe damage, probably amounting to several hundred thousand dollars. The Chicago and Northwestern Railway also suffered severe damage to their yards amounting to about \$50,000 and 4 of their bridges were also washed out. About 204 homes were flooded to a depth of from one to five feet, exclusive of the business section. From a detailed survey made by the Hawarden Independent the damage in the business section was about \$75,000. In the section north of Sioux City five persons lost their lives; they are: Nina Brunsting, 11 years old of Hull, Mr. Pertstitch and 4-year-old son of Hospers, Dick Devries of Ireton and C. M. Fleshman of Hawarden. At Sioux Center in the Floyd River drainage basin the rain came in a succession of tremendous downpours. Beginning at 2:30 p. m. of the 17th, 3.82 inches fell by 6 p. m.; 5.98 inches by 7 p. m.; 9.75 inches by 9 p. m., 11.52 inches by 5 a. m. of the 18th; and 11.66 inches by 11 a. m. of the 18th. The Floyd River overflowed and flooded thousands of acres of land and swept away about 80 or 90 bridges. The high water of the Floyd reached Sioux City Saturday, (Sept. 18) and caused hundreds of people to leave their homes for higher ground. Many city blocks were covered by water, extending from the north limits of the city to the stockyards near the mouth of the river. Telephone, telegraph and electric light wires were down in much of this section and several hundred thousand dollars damage was sustained in Sioux City. Much relief was given the flood victims of northwest Iowa by the Red Cross and the Salvation Army.

Later Floods In Central Iowa

Heavy rains during the night of the 18th and 19th over the central part of the State caused a rapid rise in the Raccoon and

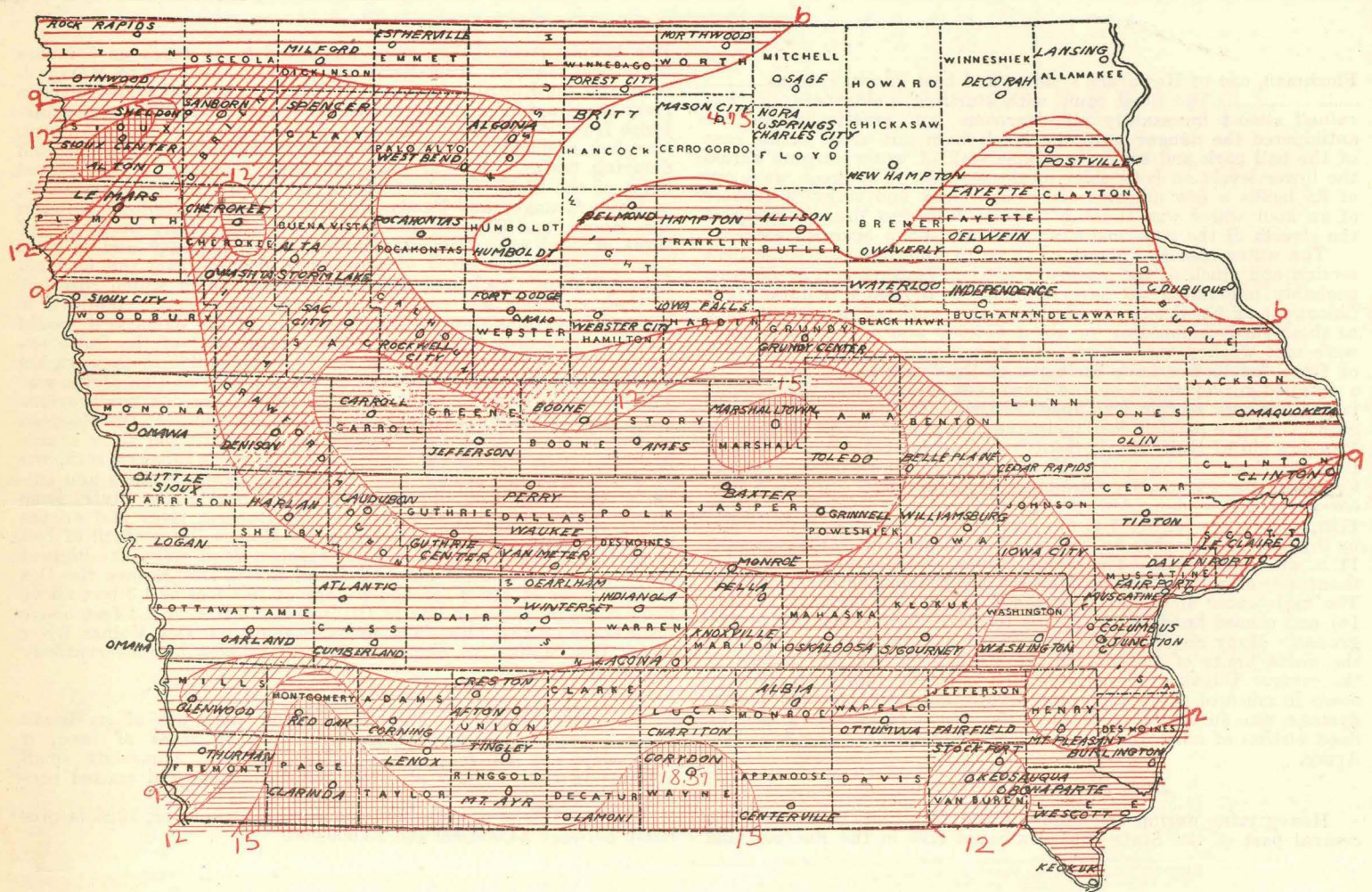
Des Moines rivers. The rains amounted to as much as 5 inches at several stations, from Perry and Carroll eastward to Marshalltown and southward. At Des Moines 2.51 inches fell. The Raccoon river rose rapidly and overflowed its banks almost the entire distance from Perry to Des Moines, causing severe damage to crops, livestock, residences and in some places flooding railway tracks and delaying trains. Several washouts were reported in the central parts of the State—on the C. G. W. at Mingo, the C. M. & St. P. at Clive, Granger and Fonda, the Rock Island at Kellogg between Des Moines and Grinnell and on the Wabash. Many thousands of acres of land were inundated in the Raccoon Valley and in Polk county several thousands of acres were flooded from the Raccoon River, Walnut Creek and Four Mile Creek, all of which rose out of their channels and caused much loss of property. While it is impossible to make an accurate estimate of the damage it would probably run near \$2,000,000 in the central part of the State exclusive of damage sustained by railroad companies to their rights of way. The highest river stage on the Raccoon at Van Meter was 18.8 feet at 2 p. m. on September 20 which exceeded the previous high water mark by 0.4 foot. In the lower reaches of the Raccoon at Des Moines, about 2,000 people were forced from their homes because of the high water and police did much to warn residents of the danger and to help them to safety. Many bridges and culverts were washed out through the central part of the State, some on the Skunk river, and others on the Raccoon river and on the smaller creeks. Damage along the Des Moines River north of Des Moines was slight since it did not reach a flood stage, its highest stage at Des Moines, being 13.2 feet. Below Des Moines the Des Moines River at Tracy reached a stage of 16.3 feet or 1.3 feet above flood stage on the 24th and at Ottumwa 12.3 feet or 2.3 feet above flood stage on the 25th. The damage along the Des Moines River below Des Moines to crops, roads and bridges is conservatively placed at \$100,000.

Flood In Eastern Iowa

In eastern Iowa the Maquoketa River went out of its banks about September 20 and flooded thousands of acres of land, it also swept out 450 feet of the coffer dam, and numerous small streams in that vicinity also left their channels and caused considerable damage.

The total flood damage in Iowa during September, 1926 is probably between \$4,000,000 and \$5,000,000.

TOTAL PRECIPITATION, SEPTEMBER, 1926



SCALE OF SHADES IN INCHES

Less than 6

6 to 9

9 to 12

12 to 15

More than 15

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, OCTOBER, 1926 No. 10

GENERAL SUMMARY

The wet weather that prevailed during September continued during most of the first week of October, after which conditions showed a decided improvement. The temperature averaged nearly normal, the mean for the State being slightly deficient. The greatest deficiency occurred over the eastern section, gradually diminishing to the west, with a general excess over most of the Missouri Valley. A similar condition has prevailed over practically the entire year. The principal warm period extended from the 8th to 11th, and the principal cool period from the 13th to the 26th, though in the extreme western portion of the State the period from the 15th to 18th was considerably above normal. Over most of the State there was very little freezing weather till the middle of the fourth week and at localities along the Mississippi River in the east-central and southeast sections a killing frost did not occur till the 24th.

The precipitation was considerably below normal, though there were stations in all divisions that showed a slight excess, the most being in the southern division. The greatest deficiency occurred in the west-central section and over limited areas adjoining. There were no damaging storms reported except a severe local storm that occurred at 1:00 A. M., October 1st, at Humboldt, causing damage amounting to several thousand dollars, to dwellings, garages, plate glass windows and windows in houses; another severe local storm, also on the 1st, occurred in the vicinity of Lake Okoboji, near Milford from 11:00 P. M. September 30th, till about 1:00 A. M. October 1st, causing a property damage of about \$75,000. Both of these storms were reported to be small tornadoes. Most of the precipitation occurred during the first five days, and rather well defined periods occurred on the 9th, 12th, 19th and 23d, the amounts being generally light to moderate. After the first week conditions improved rapidly and farm work was pushed, but the excessive moisture did not permit corn to dry rapidly and when husking got well started at the close of the month it was not sufficiently dry to permit cribbing, except over small areas in the northeast portion and there was considerable moldy corn in all sections of the State.

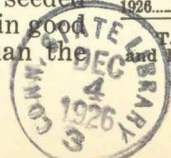
Plowing was resumed as soon as the condition of the soil permitted, but there was some bottom land in the southern portion that was still too wet to plow at the close of the month. A small amount of winter wheat was seeded which quickly germinated and all that was up was in good condition, though the acreage seeded was less than the

usual amount. Considerable clover and small grain that could not be threshed on account of wet weather rotted in the stack or was in such bad condition that it had to be abandoned. Sugar beet harvest was nearly completed at the close of the month, and while the yield per acre was heavy, the sugar content was reported to be generally disappointing. Pastures were good most of the month but over most of the northern half of the State were eaten down before the end; over the southern half of the State pastures were generally green and still supporting a large amount of stock. More fodder was being cut and shredded than usual on account of the general shortage of hay. A large crop of apples was gathered under favorable conditions, though there was some loss on account of freezing on the 24th. Roads were in good condition after the first week in all parts of the State.

COMPARATIVE DATA FOR THE STATE—OCTOBER

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	46.0	- 5.9	76	15	2.64	+ 0.22	4.80	1.25					
1874.....	51.2	- 0.7	84	25	1.52	- 0.90	2.70	0.65					
1875.....	47.8	- 4.1	77	22	1.36	- 1.06	2.71	0.28					
1876.....	47.0	- 4.9	78	18	1.16	- 1.26	3.31	0.18					
1877.....	49.6	- 2.3	93	28	4.45	+ 2.03	8.08	1.90					
1878.....	48.9	- 3.0	85	10	2.73	+ 0.31	5.52	0.40					
1879.....	58.3	+ 6.4	90	11	2.19	- 0.23	6.28	0.28					
1880.....	47.6	- 4.3	83	13	1.90	- 0.52	6.90	0.25					
1881.....	52.1	+ 0.2	86	26	6.42	+ 4.00	14.03	3.10					
1882.....	54.4	+ 2.5	86	23	3.97	+ 1.55	6.50	0.55					
1883.....	47.2	- 4.7	88	20	3.37	- 0.95	6.95	0.40					
1884.....	54.2	+ 2.3	86	17	4.20	+ 1.38	9.00	2.00					
1885.....	46.7	- 5.2	80	20	2.62	- 0.20	4.30	0.92					
1886.....	55.0	+ 3.1	88	18	2.51	+ 0.09	8.15	0.43					
1887.....	46.4	- 5.5	86	3	1.46	- 0.96	3.41	0.05					
1888.....	47.7	- 4.2	84	22	1.16	- 1.26	2.88	0.10					
1889.....	47.5	- 4.4	94	12	0.58	- 1.84	2.88	0.00					
1890.....	49.2	- 2.7	84	15	3.44	+ 1.02	6.43	1.59					
1891.....	50.0	- 1.9	92	19	2.77	+ 0.35	6.53	0.85					
1892.....	54.5	+ 2.6	96	14	1.55	- 0.87	2.58	0.00	0.0	4	21	6	4
1893.....	52.4	+ 0.5	94	10	1.28	- 1.14	4.56	0.02	0.0	4	16	9	6
1894.....	51.7	- 0.2	90	20	2.67	+ 0.25	5.25	0.03	0.2	8	14	8	9
1895.....	46.0	- 5.9	88	4	0.47	- 1.95	1.38	0.00	T.	2	19	8	4
1896.....	47.8	- 4.1	88	12	3.13	+ 0.71	5.05	1.51	T.	5	18	6	7
1897.....	56.8	+ 4.9	97	12	1.14	- 1.28	3.30	0.03	0.0	4	17	8	6
1898.....	47.5	- 4.4	88	17	3.56	+ 1.14	5.75	1.27	3.6	8	7	9	15
1899.....	56.7	+ 4.8	95	17	1.73	- 0.69	4.64	0.15	0.0	5	17	8	6
1900.....	59.3	+ 7.4	90	21	3.91	+ 1.49	8.00	1.20	0.0	7	16	7	8
1901.....	51.2	+ 2.3	88	20	1.98	- 0.44	4.23	0.45	T.	6	17	7	7
1902.....	53.5	+ 1.6	83	20	2.54	+ 0.12	6.66	0.28	T.	5	16	8	7
1903.....	52.2	+ 0.3	90	16	1.95	- 0.47	4.50	0.32	0.0	5	19	6	6
1904.....	53.1	+ 1.2	96	16	1.67	- 0.75	4.43	0.14	T.	6	15	8	8
1905.....	49.2	- 2.7	95	16	3.40	+ 0.98	5.36	1.20	1.6	8	16	6	9
1906.....	50.5	- 1.4	87	7	1.96	- 0.46	4.25	0.50	0.1	6	14	7	10
1907.....	50.4	- 1.5	85	10	1.50	- 0.92	3.71	0.30	0.0	5	20	5	6
1908.....	51.1	- 0.8	89	17	3.38	+ 0.96	8.83	0.58	2.6	8	16	6	9
1909.....	49.7	- 2.2	97	10	2.22	- 0.20	4.70	0.48	T.	6	16	6	9
1910.....	55.2	+ 3.3	93	10	0.77	- 1.65	1.73	T.	0.1	4	21	4	6
1911.....	48.7	- 3.2	87	14	3.34	+ 0.92	7.03	0.73	0.6	10	12	8	11
1912.....	52.2	+ 0.3	92	16	2.98	+ 0.56	5.77	1.03	T.	6	21	3	7
1913.....	49.2	- 2.7	89	-2	3.03	+ 0.61	7.29	0.35	1.2	9	15	8	8
1914.....	55.9	+ 4.0	88	14	3.23	+ 0.81	6.64	0.74	T.	9	16	6	9
1915.....	54.4	+ 2.5	86	19	1.31	- 1.11	3.25	T.	0.0	5	19	6	6
1916.....	50.9	- 1.0	92	8	2.00	- 0.42	4.33	0.20	2.0	8	16	7	8
1917.....	42.9	- 9.0	85	0	1.41	- 1.01	4.00	0.15	2.2	6	10	11	10
1918.....	55.1	+ 3.2	93	21	3.64	+ 1.22	7.56	1.36	0.8	7	13	7	11
1919.....	50.7	- 1.2	89	8	3.02	+ 0.60	8.65	0.45	T.	10	11	8	12
1920.....	57.7	+ 5.8	90	11	2.13	- 0.29	4.64	0.48	T.	6	19	6	6
1921.....	54.6	+ 2.7	90	21	1.96	- 0.46	3.61	0.21	T.	6	17	8	6
1922.....	56.1	+ 4.2	96	14	1.81	- 0.61	3.93	0.06	T.	5	21	4	6
1923.....	48.5	- 3.4	81	10	1.22	- 1.20	3.67	0.29	1.7	6	18	6	7
1924.....	58.1	+ 6.2	89	21	0.87	- 1.55	2.58	0.03	0.0	4	22	5	4
1925.....	40.2	- 11.7	78	-15	2.91	+ 0.49	2.70	0.97	4.9	10	8	8	15
1926.....	51.2	- 0.7	91	14	1.53	- 0.89	3.91	0.11	T.	7	13	9	9

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for October, 1926

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Precipitation .01 in. or more), Number of Days (Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS.

Climatological Data for October, 1926—Continued

Main climatological data table with columns for Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall), Number of Days (Precipitation, Clear, Partly cloudy, Cloudy), Prevailing direction, and Observers.

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc. †Also other dates. ‡Temperature not included in means. ††Received too late to be included in means and summaries. T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Table with columns for Stations, Barometric Pressure (Mean, Highest, Date, Lowest), Relative Humidity (Mean, 7 a.m., 12 Noon, 7 p.m., Lowest, Date), Wind (Total movement, Average hourly velocity, Miles, From, Date), Sunshine (% possible, Departure from normal), and Normal records.

TEMPERATURE

The mean temperature for the State, as shown by the records of 102 stations, was 51.2°, or 0.7° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 49.1°, or 1.2° lower than the normal; Central, 51.6°, or 0.5° lower than the normal; Southern, 52.9°, or 0.5° lower than the normal. The highest monthly mean was 54.6°, at Thurman, and the lowest was 46.6° at Northwood. The highest temperature reported was 91°, at Mt. Pleasant, on the 8th, and the lowest was 14°, at Inwood, on the 30th. The temperature range for the State was 77°.

PRECIPITATION

The average precipitation for the state, as shown by the records of 111 stations, was 1.53 inches or 0.89 inch less than the normal. By divisions, the averages were as follows: Northern, 1.45 inches, or 0.87 inch less than the normal; Central, 1.35 inches, or 1.13 inches less than the normal; Southern, 1.80 inches, or 0.66 inch less than the normal. The greatest amount, 3.91 inches, occurred at Lamoni, and the least, 0.11 inch, occurred at Little Sioux. The greatest amount in any 24 consecutive hours, 2.00 inches, occurred at Lenox on the 3d.

*Davenport. §Omaha. ¶Sioux City. ‡Local mean time. †And other dates.

Daily Precipitation for October, 1926

Stations	Drainage Basin	Day of Month																															Totals			
		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				
<i>Northern Division</i>																																				
Algona	Des Moines	.60		.10																															0.94	
Allison (near)	Cedar	.10		.62	.03	T.				.16										.18		T.		.24	T.									1.19		
Alta	Raccoon	.51	T.	.13								.14												.05			T.							0.83		
Alton	Floyd	.47		.01	.08							.15									T.			.06		T.								0.77		
Belmond	Iowa	.22		.85	.01					.08			.15								T.		.03	.08										1.42		
Britt	Iowa	.80		.59	.02					T.		.30									T.		T.	.10										1.71		
Charles City ***	Cedar	.02		.69	T.					.02		.11								.09		.02	T.	.10	T.									1.08		
Cherokee	Little Sioux	.45	.02	.03	T.	.04						.09								T.		.05	.07	.07		T.				.01			0.75			
Decorah	Mississippi	.42		.71	.33							.02										.03	.07	.13								.02		1.73		
Dubuque ***	Mississippi	.65	.02	.56	.03	T.					T.	.03								T.		.11	.01	.05									.02	1.48		
Estherville	Des Moines	1.11		.25							.55	.20									.10		.05	.03		T.						.10		2.39		
Fayette	Mississippi	.20		1.30	.27						T.	.10								.09	.05		T.	.13										2.14		
Forest City	Cedar	1.01		.55	.12						T.	.02	.05										.13		T.								T.	2.03		
Hampton	Cedar			.75							.08	.06											.03		T.									1.07		
Hawarden	Big Sioux	.30		.02	.38					1.16		.10												.15										1.96		
Humboldt	Des Moines	1.13		.73	.02	.06					T.		.21											.12										2.27		
Independence	Wapsipinicon	.26	.05	1.40	.41						.19			.11							.04			.19	.04							T.		2.69		
Inwood	Big Sioux	.49		.09	.28							.02											.10											0.88		
Lansing	Mississippi	.23	.02	.28	.82	.01						.13										.20	.16									.02		2.23		
Le Mars	Floyd	.52		T.	.12	T.					.05	.05										T.		T.									.16	0.74		
Marathon	Raccoon																								T.		T.						T.	*	*	
Mason City	Cedar	.42		.60	.02						.10	.21									T.		.08	.08		T.	T.					T.		1.51		
Milford (near)	Little Sioux	.65		.22	.02	T.					T.	.44										.01	T.	.01	.03		T.	.01				T.	.03	1.43		
New Hampton	Wapsipinicon																																		0.94	
Nora Springs	Cedar	.08		.36							.02	.19										.11	.13	.05												
Northwood	Cedar	.82		.50	.03						T.	.20	.47									T.	.12	.12	.01	.08				T.	T.		T.	2.35		
Oelwein	Wapsipinicon			1.70	.30						.40																								2.40	
Osage	Cedar	.15		.30	.01						.01		.28										.10	.10										0.95		
Pocahontas	Des Moines	.61		.09								.01	.12											.12										0.95		
Postville	Mississippi	.31		1.46	.25						T.		.14										.14	.12	.10							.15		2.67		
Rock Rapids	Big Sioux	.67		.07	.36						.08	.05										.05	.02	.03										1.33		
Sanborn	Floyd	.47			.10	.02						.42	.09												.05										1.15	
Sheldon	Floyd	.27		.05	.10						.01	.41												.01	T.	.04									0.89	
Sioux Center	Floyd		T.	.11							.51	.13																							0.75	
Spencer	Little Sioux			.17		T.						.05	.17												.15								.05		0.59	
Storm Lake	Raccoon	.77	T.	.06	.02								.15	T.											.06										1.07	
Washta	Little Sioux	.64		.03	.05							.08													.07										0.89	
Waterloo	Cedar	.10	.30	T.	1.66		.35					T.											T.	T.		.12								2.53		
Waverly	Cedar	.04		.67	.24						.08		.07										.06		T.										1.29	
West Bend	Des Moines	.87		.06	.01						.02	T.	.16												T.										1.12	
<i>Central Division</i>																																				
Ames	Skunk	.23		.75	.04	.06							.05												.20	.01	.01							1.40		
Audubon	Nishnabotna	.45	T.	.15		.02					.02		.02												.05										0.71	
Baxter	Skunk	.04	.04	1.25	.10						.06		.05									T.			.10		T.								1.64	
Belle Plaine	Iowa	.03	.17	.39	.46	.04					.09	.01	.02										.01	T.	T.	.19									1.41	
Boone	Des Moines	.87		.57	.12								.02												.24										1.80	
Carroll	Raccoon			.09									T.												.03										0.12	
Cedar Rapids	Cedar	.14	.61	.11	.14	.05							T.										.04		.02										0.70	
Clinton	Mississippi	.84	.07	.11	.53	.15						.03	.15											.05			.11							T.	2.08	
Davenport ***	Mississippi	1.13	.10	.50	.24	.09						T.	.23											T.	.01	T.	T.							T.	2.38	
Davenport (No.2)	Mississippi	1.73	.13	.40	.55	.16						T.	.23										.01	T.	.01	T.		.08						T.	3.35	
Denison	Missouri			.04								.03													.21										0.28	
Des Moines ***	Des Moines	.01	.04	.50	T.	.01						.05													.12										0.73	
Fairport	Mississippi	.80	.22		.64	.11						.23													.07										2.07	
Fort Dodge	Des Moines	.09		.47	.03	.05						T.	.12												.18										0.94	
Grinnell	Iowa		.29	.67	.24	T.					.06	T.	.04											T.	T.	.11									1.41	
Grundy Center	Cedar	.57		1.28	.12	.08						T.	.05										.05		.04	.10									2.29	
Guthrie Center	Raccoon	.33		.36								T.	.08												.07										0.89	
Harlan	Nishnabotna	.14		.03									T.																						0.17	
Iowa City	Iowa	.31	.12	.21	.43	.05						T.	T.	.01										.01	.01	.12		.02							1.31	
Iowa Falls	Iowa	.09		.39	.02	.01						.12	.04												T.	.02	T.	.02								1.38
Jefferson	Raccoon	.21		.75		.05							.07													.23										1.33
Le Claire	Mississippi	.63		.71	.89	.01	.04					.01	T.	.21													.14								2.64	
Little Sioux	Little Sioux			.08		.01																				.02										0.11
Logan	Missouri																																			
Maquoketa	Maquoketa	1.03	.22	.12	.15	.14						.05	.03	.05										.03	.02	.10	.04								1.98	
Marshalltown	Iowa	.79	T.	1.83	.05	.05																														

Daily Precipitation for October, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals		
		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			
<i>Southern Division</i>																																			
Afton	Grand	.04	.44	1.20	.04	.06				.06	.02	.03												.19											2.08
Albia	Des Moines	.22	.20	.57	.04	.19				.07	T.		.21										T.	.10			.02					T.		1.62	
Atlantic	Nishnabotna	.05	.01	.19	.02						T.	.01	.01	.03											.12		T.							0.44	
Bonaparte (near)	Des Moines	.89	.61		.32	.50					.05	T.	.15											.09										2.61	
Burlington	Mississippi	.67	.20	.08	.78	.27					T.	.04	.44				T.							T.	.08		.02					T.		2.58	
Centerville	Chariton	.04	.49	.07	.37	.13						.28		.45											.14									1.97	
Chariton (near)	Chariton	T.	.26	.38	.75	.62	T.						.15								T.			.28										2.44	
Clarinda	Nodaway	.07	.21	.73	.04	.02					.21	.23													.35									1.86	
Columbus Jct.	Iowa	.62	.22	.07	.30	.03					T.		.08												.08	.08								1.48	
Corning (near)	Nodaway	.02	.23	1.08	.50						T.	.10	T.												.35									2.28	
Corydon	Chariton	.15	.52	.75	.09	.18					.29	.01	.02											T.	.15									2.16	
Creston	Missouri	.07	.13	1.11	.07	.06					.07														.24										1.75
Cumberl'd (near)	Nodaway	.19	.02	.30	T.	T.					T.		T.										T.	.09										0.60	
Earlham (near)	Des Moines	.05		.85	.05	.05					.14													T.			T.							1.14	
Fairfield	Skunk	.07	.26	.25	.76	.21					.03														.11									1.96	
Glenwood	Missouri	.06	.02	.10									.06												.30									0.54	
Indianola	Des Moines	.14	1.13	.02	.04								.08												.18			.02						1.61	
Keokuk**	Mississippi	.88	.72	.26	.41	.54					.08	.04	.31						T.	.02		T.		.13	.02								3.41		
Keosauqua	Des Moines	.47	.71	.08	.32	.85	.01				.28	.02	.01											.26	T.									3.01	
Knoxville	Des Moines		.18	.75	.53						T.		.15												.16									1.77	
Lacona	Des Moines		.20	.80		.08																			.33									1.41	
Lamoni	Grand	.67	.63	1.49	.03	.10					.57	T.	.19												.22	T.		.01						3.91	
Lenox	Missouri	.15	.27	2.00	.06	.03					.10	.18													.25									3.04	
Mount Ayr	Grand	.03	.62	1.42	.04	.03					1.23	.03	.16												.24			T.						3.80	
Mt. Pleasant	Skunk	.47	.39	.01	.37	.36					.03		.01												.09	.05								1.78	
Oakland	Nishnabotna			.21							T.	T.													.32									0.53	
Oskaloosa	Des Moines	.01	.18	.19	.46	.17					.08	T.	.09									T.			.14			T.						1.32	
Ottumwa	Des Moines	.16	.20	.12	.33	.27					.06		.01																					1.28	
Red Oak (near)	Missouri	T.	.15	T.							.10	T.	.10												.18									0.53	
Riverton (near)	Nishnabotna	.02	.23	.25							.16	.17													.42	T.								1.25	
Sigourney (near)	Skunk		.14	.24	.62	.15					T.	T.	.19												.06	T.		T.						1.40	
Stockport	Skunk	.47	.48	.10	.57	.34					.06	.02	T.												.14	T.								2.18	
Thurman	Missouri	.17	.19	.10							.08	.03	.06																					0.95	
Tingley	Platt			1.41	.04	.12					.83	.05	T.												.32									2.75	
Washington	Skunk	.47	.18	.28	.40	.02					T.														.08									1.43	
Wescott (near)	Mississippi																																	1.58	
Winterset	Des Moines	.23	.07	1.02	.07	.04					T.		.04												.11									1.58	
Omaha, Neb.**	Missouri		T.	.10	T.							.01													.12									0.23	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

**Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.

**Incomplete.

*Precipitation included in the next following measurement.

T. Precipitation is less than .01 inch rain or melted snow.

|||||Precipitation measured on Oct. 1st is for a 36 hour period ending at 7:00 p. m.

(Continued from Page 75)

SNOWFALL

The average snowfall for the State was a trace. Only four stations, all in the extreme northeastern portion, reported more than a trace and only one station in the southern division reported a trace.

MISCELLANEOUS PHENOMENA

- Aurora: 14th, 15th, 16th.
- Fog: 6th, 7th, 10th, 11th, 13th, 23d, 31st.
- Hail: 1st, 5th, 11th.
- Halos (lunar and solar): 17th, 18th, 30th.
- Sleet: 22d, 23d.
- Thunderstorms: 1st, 2d, 3d, 4th, 5th, 9th, 11th, 12th, 23d.
- Tornado: 1st.
- Winds (strong): 8th, 21st.

RIVERS

The Mississippi River continued to rise until the beginning of the 2d week in the upper course and till near the middle of the 2d week in the lower course, after which there was an almost continuous fall; the average stage was much above normal. On the Missouri River moderate and nearly stationary stages prevailed; the extremes were less than one foot. There was a slight rise on nearly all interior rivers during the first week and a gradual fall thereafter, the mean being considerably above normal.

ERRATA

Report for August, 1926. Page 58. Jefferson; date of lowest temperature published 28th, should be 27th. Page 59. Burlington; number of days with .01 inch, or more, of precipitation published 14, should be 15.

SOME OBSERVATIONS ON THE TREND OF THE MISSISSIPPI RIVER

By H. Merrill Wills

(U. S. Weather Bureau, Dubuque, Iowa)

Is the Mississippi River drying up? A survey of past records of river stages at Dubuque, Iowa, for the period 1870 to 1925, inclusive, brings out the fact that, contrary to popular opinion, the Mississippi River at this point has shown a tendency to rise rather than fall during the last half century. In other words, there is apparently more water in the river than there used to be.

Daily readings of the water have been made continuously since May, 1869, at the drawbridge, by the Dunleith and Dubuque Bridge Company, under the supervision of the United States Weather Bureau. The gage has been located in approximately the same spot during this long period and all records carefully preserved, except one book containing the four winter months of the winter of 1884-1885. Readings have been made daily throughout the year, the ice being broken about the gage in winter in order to obtain true water readings. All values have been adjusted where necessary to reduce to the same zero-plane, and the data for the long period thus brought into true comparison.

The normal annual stage of the Mississippi at Dubuque is 5.5 feet. This has been found by averaging the means for past years. The annual mean values, based upon the twelve monthly means of each year, were grouped into 5-year, 10-year, 20-year, and finally, into 28-year periods, for the purposes of this analysis. The graph obtained from these values shows, for the 5-year subdivisions, that the average for the first period was close to normal; the next period, nearly a foot below normal; the next, more than a foot above; the next three periods, a half foot to a foot and a half below; the next two periods, nearly a foot above; the next was slightly above; the next, a foot above; and the last 5-year period, more than a foot below normal. It is thus seen that there has been only one 5-year average below normal in the last 25 years while the preceding 25 years had four such periods below normal.

(Continued on Page 79)

Daily Maximum and Minimum Temperature for the Month of October, 1926

Table with columns for Stations, days 1-30, and Mean. Rows are categorized by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their daily temperature ranges.

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing.

(Continued from Page 77)

On the basis of the 10-year groups, the years 1870 to 1885 averaged 0.3 foot above normal; the next decade, more than a foot below normal; the next was practically normal; the next, a half foot above; while the last decade was exactly normal. It is already disclosed by these 10-year averages that relatively high or normal tendencies have been the rule during the last thirty years.

When we come to the larger subdivisions we find the first period (16 years) averaged 0.3 foot above normal; the middle period (20 years), 0.5 foot below normal; and the last 20 years, 0.2 foot above normal, or 0.7 foot higher than the preceding 20-year group.

Finally, when the curve is smoothed out as the smaller subdivisions are brought together to form 28-year periods, which divides the entire record into equal parts, it is seen that the first half of the record averaged 5.2 feet, while the second half averaged 5.7 feet. This obviously shows a distinct upward trend of the river, with an average stage for the last 28 years 0.5 foot higher than in the preceding 28 years.

Of course, water depth is not a perfect index to stream flow or volume, and it is recognized that both channel course and cross section have changed somewhat in this long lapse of years, but it is thought that the gage record is sufficiently indicative of the trend to establish beyond question that the river is actually carrying more water than formerly, the increase amounting roughly to about 10 per cent.

One asks the question, then, "Why do people generally think of the river as gradually drying up?" The writer is inclined to believe this delusion to be purely a psychological development due to changing viewpoint of the individual with increasing age. Everyone remembers that when he was small, hills were mountains to him, summers and winters were ages, miles were long distances, snow banks were as high as the housetops, creeks were rivers, and rivers were oceans. Moreover, it seems to be a trait of the mind to remember extremes, though seldom average conditions. Then again, public opinion is contagious. What we hear others say makes a certain impress upon us and when the same opinion, however unfounded, is expressed on every hand, we are eventually drawn into similar habits of thought.

Examining the table of monthly mean values and noting the past records of high and low values for each of the twelve months since 1869, it is found that 50 per cent of the high means occurred before 1898 and the remaining 50 per cent, since then; while in the case of the low monthly means, twice as many appear in the first half of the record as in the second. It is true that the highest monthly mean of record, 18.3 feet, was back in May, 1888, but the lowest mean record, 0.3 foot, occurred only three years later, in September, 1891. While the highest annual mean, 8.4 feet, occurred back in the first half of the record, the lowest annual mean, 2.5 feet, also was recorded before 1898.

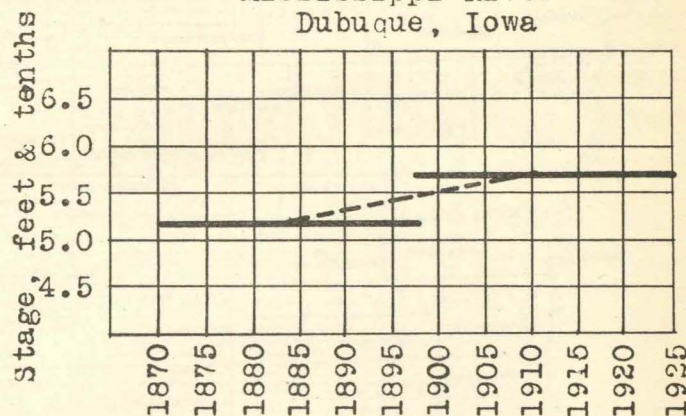
Flood stage, 18 feet, has been reached at Dubuque seven times in the history of the station, or an average of once in eight years. Four of the floods occurred in April, the most prolific month for high water, two in May (one of which began on the last day of April), one in June, and one in October. The highest water known was 21.7 feet in June, 1880; the next, 21.4 feet in May, 1888; but a 21-foot stage was reached also in April of 1920 and 1922.

On the basis of extreme minimum stages, it is found that 67 per cent of the lowest monthly stages occurred in the first half of the record. The lowest water known was 1.2 feet below zero of gage, in January, 1890. The water has been known to touch zero or lower also in the last four months of the year, in fact, December most frequently has the lowest water of the year. The water has reached zero or lower seven times in the last 56 years, six of which occurred during the first half of the record and one time in the latter half. So it would seem that there are many evidences of an expanding rather than a diminishing of the "Father of Waters" within the limits of recorded history.

While this study has not entered into the contributing rainfall during the period, which is assumed to have been reasonably constant, a noting of certain factors which have a bearing upon the proportion of the fallen rain that actually reaches the main streams, may be of interest. It is apparent that increased cultivation of the soil in the drainage area above has enhanced the absorptive power of the soil, resulting in a slower run-off and a consequent tendency to a more nearly uniform discharge. This, in turn, reduces the number of cases of high water and effects higher mean stages during the low-stage months. Moreover, a considerable portion of the rainfall upon well cultivated soil never reaches the streams at all, being lost through evaporation from the surface and by percolation to the subsoil.

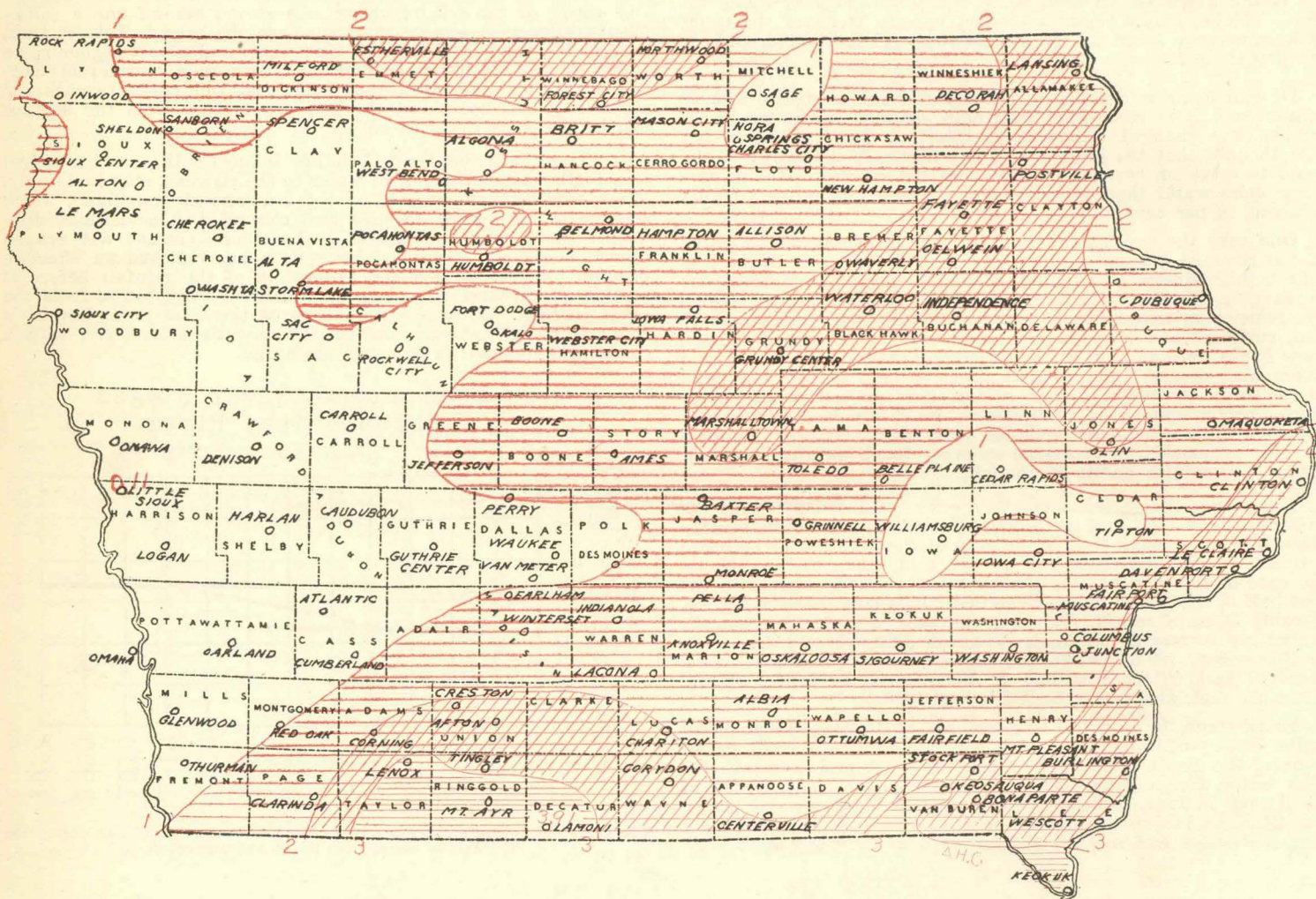
On the other hand, these "holding" influences that tend to retard or actually reduce the flow of water to the streams, may be largely, if not entirely, compensated by the drainage of marshland, which accelerates the run-off through that channel and incidentally diminishes the possible amount of evaporation from the wet ground or water surface. Again, deforestation has removed an effective medium for interception and absorption of the rainfall before it reaches the ground, to be lost later through evaporation from the plant surface. A larger percentage of the total precipitation is thus permitted to reach the ground now than formerly, with a consequent increase in potential discharge.

Mean Annual River Stages
Mississippi River
Dubuque, Iowa



The above cut shows the average river stage to be 0.5 foot higher during the last 28 years, than the 28 years previous

TOTAL PRECIPITATION, OCTOBER, 1926



SCALE OF SHADES IN INCHES

Less than 1

1 to 2

2 to 3

More than 3

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU
CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, NOVEMBER, 1926 No. 11

GENERAL SUMMARY

November, 1926, was a cold, disagreeable month, being the coldest since 1911. There was a decided deficiency in sunshine, especially in the extreme eastern portion. The average number of clear days for the State was the least ever recorded in November and the number of cloudy days equaled the November record, while at Dubuque with a total of 23 cloudy days, the month was the cloudiest ever known in a period of over 50 years. The month was characterized by unusual storm activity and this condition produced numerous fluctuations in temperature but no sudden changes except a cold wave on the last day of the month in which the temperature dropped nearly 50° at a number of stations.

The precipitation was above normal in all divisions and occurred in well defined periods at frequent intervals throughout the month, but there was a deficiency in precipitation over about one-fourth of the State, the principal areas being in the north-central, south-central and the eastern portion of the south-western sections. The principal storm passed over the State on the 13th-14th and this storm produced more than half of the monthly total with unusually heavy falls at many places in the western portion. There was some snow in connection with nearly every period of precipitation in some portion of the State, but the storm that passed along the eastern border of the State on the 18th was the only storm of more than ordinary consequence. The snow was confined mainly to the eastern portion. The heaviest amount reported was 12.3 inches at Independence and a number of other stations reported the greatest November snowfall of record. The snow during this storm drifted badly, blocking highways for several days but there was no serious interference with railway traffic except on a few branch lines in the east central and northeast portions.

The frequent occurrence of rain or snow with the alternate freezing and thawing seriously interfered with all outside occupations. During most of the month fields were muddy, especially over the eastern and southern portions and very poor progress was made in gathering corn. Machine picking was attempted on a larger scale than usual but the soft condition of the fields caused

much interruption and in portions of the State machine picking was given up entirely. Strong winds accompanied all of the principal storms and there was much corn blown down that froze in the mud which made it necessary to harvest more than the usual amount with stock. The unfavorable weather conditions caused much corn to mold and some to rot. Dirt roads were in bad shape most of the month and many in the eastern and southern portions were impassable for rather long periods except when frozen.

F. L. D.

COMPARATIVE DATA FOR THE STATE—NOVEMBER

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873.....	36.2	- 0.4	64	- 4	0.72	- 0.84	2.78	0.00					
1874.....	32.9	- 3.7	74	- 6	2.21	+ 0.65	4.79	1.05					
1875.....	30.1	- 6.5	60	-16	0.19	+ 1.37	0.63	0.00					
1876.....	31.3	- 5.3	68	- 6	1.70	+ 0.14	3.50	0.16					
1877.....	33.3	- 3.3	82	-10	1.86	+ 0.30	3.84	0.12					
1878.....	39.7	+ 3.1	72	-12	0.63	- 0.93	2.69	0.00					
1879.....	36.3	- 0.3	75	- 4	4.08	+ 2.52	7.90	0.20					
1880.....	25.3	- 9.3	68	-12	1.29	- 0.27	3.30	0.05					
1881.....	31.4	- 2.2	65	- 1	2.01	+ 0.45	3.97	0.60					
1882.....	37.5	+ 0.9	76	- 4	1.71	+ 0.15	7.15	0.30					
1883.....	36.8	+ 0.2	70	- 3	1.44	+ 0.12	4.17	0.00					
1884.....	35.6	- 1.0	68	-15	0.79	- 0.77	1.90	0.00					
1885.....	36.4	- 0.2	67	-14	0.69	- 0.87	2.60	0.10					
1886.....	32.1	- 4.5	75	- 4	1.49	- 0.07	5.18	0.30					
1887.....	35.1	- 1.5	78	-26	0.85	- 0.71	4.10	0.10					
1888.....	37.1	+ 0.5	82	- 0	1.56	- 0.00	6.00	0.00					
1889.....	33.0	- 3.6	68	- 9	1.44	- 0.12	4.90	0.05					
1890.....	38.9	+ 2.3	78	- 2	1.31	- 0.25	3.55	0.50					
1891.....	30.5	- 6.1	84	-24	1.70	+ 0.14	3.64	0.66		7	10	8	12
1892.....	33.3	- 3.3	70	- 3	1.10	- 0.46	3.16	0.65	1.8	4	11	8	11
1893.....	34.0	- 2.6	86	-13	1.17	- 0.39	2.56	0.05	4.6	4	16	8	6
1894.....	32.7	- 3.9	72	- 5	0.92	- 0.64	2.42	T.	0.4	4	9	11	10
1895.....	31.3	- 2.3	86	-12	1.51	- 0.05	3.01	0.45	4.9	6	9	8	13
1896.....	29.6	- 7.0	82	-15	1.83	+ 0.27	4.51	0.16	2.9	6	9	8	13
1897.....	34.3	- 2.3	81	-19	0.66	- 0.90	2.24	T.	1.2	5	12	8	10
1898.....	32.2	- 4.4	78	-17	1.50	- 0.06	3.61	0.33	8.7	6	14	8	8
1899.....	43.9	+ 7.3	86	- 8	1.20	- 0.36	2.97	0.13	0.5	5	12	8	10
1900.....	33.5	- 3.1	79	- 6	1.06	- 0.50	3.35	T.	3.7	6	12	7	11
1901.....	35.8	- 0.8	77	- 2	0.86	- 0.70	2.30	0.20	2.6	3	18	6	6
1902.....	41.2	- 4.6	79	- 4	2.13	+ 0.57	4.19	0.16	1.8	7	9	7	14
1903.....	34.2	- 2.4	76	- 5	0.52	- 1.04	1.74	T.	1.1	3	13	8	9
1904.....	41.0	+ 4.4	80	- 4	0.15	- 1.41	0.50	0.00	0.5	1	20	6	4
1905.....	38.4	+ 1.8	70	-12	2.84	+ 1.28	5.30	0.90	0.6	5	15	7	7
1906.....	35.4	- 1.2	76	- 5	2.03	+ 0.47	3.86	0.35	4.4	8	9	7	14
1907.....	36.7	+ 0.1	68	- 4	1.03	- 0.53	2.27	0.05	0.9	4	17	6	9
1908.....	39.3	+ 2.7	80	- 5	1.56	- 0.00	3.31	0.21	1.4	5	14	7	9
1909.....	42.4	+ 5.8	84	- 3	5.39	+ 3.83	1.48	2.07	6.8	10	10	7	13
1910.....	33.4	- 3.2	76	- 5	0.34	- 1.22	1.03	T.	0.7	3	13	9	8
1911.....	29.9	- 6.7	79	- 8	1.42	- 0.14	4.99	0.11	1.6	6	11	8	11
1912.....	40.1	+ 3.5	77	- 6	0.98	- 0.58	2.38	0.00	T.	2	18	8	4
1913.....	44.1	+ 7.5	78	-10	1.18	- 0.38	3.49	0.20	0.4	6	11	7	12
1914.....	41.0	- 4.4	80	- 4	0.22	- 1.34	0.95	0.00	T.	2	19	6	5
1915.....	40.2	- 3.6	83	- 5	1.94	+ 0.38	4.86	0.30	1.2	6	11	10	9
1916.....	37.3	- 0.7	80	- 8	1.61	+ 0.05	3.65	0.05	3.6	5	16	6	8
1917.....	40.7	- 4.1	77	- 3	0.28	- 1.28	1.02	T.	1.4	3	14	6	10
1918.....	39.9	- 3.3	76	- 0	2.11	+ 0.55	5.10	0.70	4.4	7	13	5	12
1919.....	33.6	- 3.0	68	-12	3.40	+ 1.84	6.22	1.97	6.3	8	11	7	12
1920.....	35.4	- 1.2	71	- 5	2.18	+ 0.62	4.45	0.73	1.2	8	10	5	15
1921.....	33.6	- 3.0	70	- 5	0.58	- 0.98	1.61	T.	3.4	5	10	5	15
1922.....	42.2	+ 5.6	74	-11	3.54	+ 1.98	5.28	1.96	0.3	9	11	6	13
1923.....	40.1	+ 3.5	72	- 9	0.58	- 0.98	1.84	0.00	1.2	3	16	6	8
1924.....	38.9	+ 2.3	82	- 0	0.58	- 0.98	1.55	T.	0.4	4	15	7	8
1925.....	36.1	- 0.5	68	- 6	0.71	- 0.85	2.30	0.10	4.0	4	15	6	9
1926.....	32.6	- 4.0	71	- 3	2.10	+ 0.54	3.88	0.68	4.2	7	8	7	15

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.

Climatological Data for November, 1926

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit					Precipitation, in inches				Number of Days				Prevailing direction of wind	OBSERVERS		
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear			Partly cloudy	Cloudy
<i>Northern Division</i>																				
Algona	Kossuth	1,213	53	30.0	-4.6	61	5	7	10†	31	1.50	+0.14	1.24	2.4	4	12	8	10	nw.	W. E. Laird
Allison (near)	Butler	1,044	14	29.7	-4.8	60	5	6	10†	32	1.72	+0.16	0.82	4.5	9	6	6	18	nw.	J. A. Bell
Alta	Buena Vista	1,513	35	29.6	-4.3	64	5	7	10†	33	2.36	+0.94	1.40	7.0	9	6	10	14	nw.	D. E. Hadden
Alton	Sioux	1,305	21	29.7	-3.9	63	5	4	23	37	1.44	+0.07	1.11	3.5	7	3	12	15	nw.	W. S. Slagle
Belmond	Wright	1,181	16	29.7	-4.5	62	5	0	23	37	1.58	-0.07	1.05	5.5	8	5	5	20	nw.	H. F. Luick
Britt	Hancock	1,236	39	28.1	-5.4	62	5	1	10	37	1.43	-0.02	0.76	5.0	6	7	3	20	nw.	James S. Ross
Charles City	Floyd	1,015	35	30.1	-2.9	60	5	9	10	34	1.52	-0.08	0.78	3.7	11	5	7	18	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	4	29.0		65	5	2	10	35	1.58		1.38	2.0	4				n.	J. E. Wirth
Decorah	Winneshek	875	33	28.0	-6.7	58	5	0	11†	40	1.87	+0.03	0.70	10.2	7	6	4	20	nw.	M. D. Whitney
Dubuque	Dubuque	698	53	32.9	-4.1	63	7	10	21	26	3.24	+1.41	1.62	8.2	10	3	4	23	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	31	29.2	-4.8	53	13	6	10	29	1.16	-0.15	0.60	4.0	7	4	22	4	nw.	A. O. Peterson
Fayette	Fayette	1,003	38	30.0	-4.1	63	7	3	21†	36	2.69	+0.97	0.97	10.7	7	10	5	15	nw.	R. Z. Latmer
Forest City	Winnebago	1,226	32	28.6	-4.9	63	5	4	10	38	1.39	-0.16	0.60	6.2	8	10	4	16	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	1	29.2	-6.2	62	5	3	23	33	1.93	+0.33	0.95	3.7	7	10	9	11	nw.	L. H. Davis
Hawarden	Sioux	1,181									2.15		1.88	3.3	8	7	10	13	nw.	Earl V. Sife
Humboldt	Humboldt	1,095	38	30.3	-5.3	65	5	1	10	40	1.63	-0.04	1.03	6.0	5	5	7	18	nw.	H. C. Snitkey
Independence	Buchanan	921	62	31.4	-5.1	61	5	10	28	37	2.60	+1.16	1.15	1.45	6	8	4	18	nw.	Dr. George Boody
Inwood	Lyon	1,474	22	27.8	-5.2	67	5	0	23	40	2.25	+1.13	1.57	6.6	8	11	6	13	nw.	A. C. Hanson
Lansing	Allamakee	632	19								1.76	-0.19	0.68	5.8	8				nw.	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	30	30.8	-4.2	69	5	4	10	41	1.80	+0.67	1.33	4.2	4	12	2	16	nw.	Mrs. M. C. Woolley
Marathon	Buena Vista										1.66		0.87	3.0	6	5	10	15	nw.	E. G. Smith
Mason City	Cerro Gordo	1,148	29	29.0	-4.5	62	5	2	10†	36	1.96	-0.12	0.60	7.4	6	6	9	15	nw.	American Beet Sugar Co.
Milford (near)	Dickinson	1,430	6	28.0		63	5	5	10	38	1.43		0.55	4.9	8	5	14	11	nw.	Dr. Ferdinand J. Smith
New Hampton	Chickasaw	1,169	29								2.49	+0.49	0.80	7.3	12	6	12	12	s.	E. J. Feuling
Nora Springs	Floyd	1,064	14	30.4	-5.8	64	6	2	10	40	2.49	+0.49	0.80	7.3	12	6	12	12	s.	Arthur Betts
Northwood	Worth	1,222	30	27.6	-4.8	65	6	3	10	34	2.00	+0.03	0.60	10.0	8	5	7	18	nw.	Charles Dwelle
Oelwein	Fayette	1,036	2	31.2		60	7	4	21	33	1.68		1.08	12.0	3	7	4	19	nw.	John T. Ridler
Osage	Mitchell	1,163	1																nw.	Geo. H. Munger
Pocahontas	Pocahontas	1,248	22	30.3	-4.4	64	5	4	23	36	2.04	+0.36	1.59	4.7	7	8	8	14	nw.	F. E. Hronek
Postville	Clayton	1,180	27	28.6	-5.4	60	7	2	21	33	1.73	+0.04	0.85	6.0	5	7	4	19	nw.	F. L. Williams
Rock Rapids	Lyon	1,358	27	28.8	-4.4	61	5	1	22	36	2.00	+0.81	1.30	6.4	8	10	11	9	nw.	J. K. Medberry
Sanborn	O'Brien	1,553	12	28.8a	-3.7	64	5	2b	10	37b	1.45	+0.15	0.92	4.3	5	8	6	16	nw.	J. W. Dow
Sheldon	O'Brien	1,418	1	29.2		65	5	5	10†	38	1.98		1.39	5.4	9	5	13	12	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	27	28.0	-5.5	61	5	5	10†	34	1.95	+0.77	1.35	7.0	5	10	5	15	s.	J. De Ruyter
Spencer	Clay	1,319	12	29.2	-4.4	64	5	3	23	39	1.44	+0.14	0.99	4.0	5	7	7	16	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	37	31.2	-4.3	63	5	7	10	31	1.93	+0.63	1.60	2.0	8	9	5	16	nw.	George H. Fracker
Washta	Cherokee	1,157	28	31.4	-3.6	65	5	5	10	40	1.89	+0.57	1.38	1.5	7	10	7	13	nw.	H. L. Felter
Waterloo	Black Hawk	854	43	31.8	-4.3	62	5	4	23	38	2.08	+0.59	1.00	1.6	7	11	7	12	nw.	R. B. Slippy
Waverly	Bremer	936	30	30.5	-5.1	60	5	8	21†	38	1.70	+0.05	0.57	6.8	9	8	9	13	nw.	D. H. Murphy
West Bend	Palo Alto	1,197	33	29.8	-4.3	63	5	4	10	36	1.40	-0.09	1.10	3.0	4	6	11	13	nw.	Jos. Dorweiler
Means and extremes				29.7	-4.7	69	5	0	11†	41	1.84	+0.32	1.88	5.6	7	7	8	15	nw.	
<i>Central Division</i>																				
Ames	Story	926	49	33.8	-2.1	65	5	11	10	36	1.66	+0.37	1.13	1.8	12	11	5	14	nw.	Iowa State College
Audubon	Audubon	1,297	31	31.4	-3.4	65	5	4	10	37	3.23	+1.90	2.30	7.2	8	7	12	11	nw.	George Kibby
Baxter	Jasper	998	26																nw.	Henry Geise
Belle Plaine	Benton	866	36	33.0	-4.0	64	5	9	21	40	1.62	-0.07	0.81	7.3	9	9	4	17	nw.	O. C. Burrows
Boone (near)	Boone	1,134	21	33.6	-3.0	67	5	7	10	44	1.71	+0.34	1.31	2.0	3	5	11	14	nw.	C. F. Henning
Carroll	Carroll	1,265	36	32.2	-3.9	65	5	3	10	35	3.28	+1.96	1.87	5.5	7	16	2	12	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	41	32.6	-5.2	64	7	5	21	37	3.17	+1.52	1.98	4.2	8	6	4	20	nw.	J. T. Wurster
Clinton	Clinton	595	53	34.4	-3.5	65	6	4	21	32	3.38	+1.49	1.14	8.9	9	6	8	16	s.	Dr. A. P. Bryant
Davenport	Scott	580	55	35.2	-3.8	63	6	9	21	34	3.88	+2.08	1.56	8.1	11	5	4	21	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	1	34.8		66	6	6	21	34	3.67		1.33	9.8	13				nw.	Rex Shriver
Denison	Crawford	1,171	32	32.6	-3.0	65	5	5	10	38	2.52	+1.19	2.30	3.5	5	8	6	16	nw.	V. L. Byers
Des Moines	Polk	861	48	35.2	-3.2	66	5	13	10	37	2.43	+0.96	1.06	2.2	11	5	7	18	nw.	U. S. Weather Bureau
Fairport	Muscatine	567	5	35.2		65	6	6	21	31	3.35		1.37	7.3	10	7	2	21	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	26	30.4	-4.9	65	5	1	10	40	2.07	+0.49	1.19	3.3	5	6	9	15	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	32	34.1	-3.6	63	5	10	21	33	0.68	-1.01	0.15	0.7	7	9	10	11	nw.	Paul P. Meyers
Grundy Center	Grundy	976	35	31.4	-4.9	61	7	6	23	35	2.34	+0.90	1.10	9.0	8	1	14	15	nw.	W. G. Heiberger
Guthrie Center	Guthrie	1,077	31	32.8	-4.2	62	5	6	10	35	1.72	+0.27	0.70	7.0	8	14	2	14	nw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	27	33.4	-2.4	70	14	3	10	43	3.12	+1.66	2.10	T.	3	15	6	9	nw.	Walter Bell
Iowa City	Johnson	733	66	34.1	-3.5	64	7	10	21	34	3.36	+1.19	1.08	5.0	10	7	8	15	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	33	31.0	-4.3	61	5	2	23	37	1.65	+0.05	0.84	3.9	12	9	9	12	nw.	Mary F. Parmelee
Jefferson	Greene	1,052	27	32.9	-3.3	66	5	4	10	36	2.24	+0.31	1.63	2.0	4	6	9	15	nw.	W. I. Lyon
Le Claire	Scott	576	26																nw.	Margaret T. Disney
Little Sioux	Harrison	1,040	21	33.1a	-3.4	71b	5	3	21	43b	2.66	+1.09	1.75	3.5	11	7	13	10	nw.	H. W. Kerr
Logan	Harrison	1,035	59					8†	21	21			2.17	4.0					nw.	Mary Jean Stern
Maquoketa	Jackson	692	1	31.8		63	7	4	21	35	2.81		0.82	5.3	10	7	8	15	nw.	John Strodtloff
Marshalltown	Marshall	947																		

Climatological Data for November, 1926—Continued

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit							Precipitation, in inches				Number of Days			Prevaling direction, per cent	OBSERVERS	
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy			Cloudy
<i>Southern Division</i>																				
Afton.....	Union.....	1,212	32	34.8	- 3.7	69	6	8	21	35	1.30	- 0.13	0.58	1.0	8	13	7	10	sw.	S. R. Brown
Albia†	Monroe.....	956	28	35.6	- 2.6	64	5†	11	10	31	1.87	+ 0.31	1.14	1.1	9	10	3	17	nw.	O. E. McBride
Atlantic.....	Cass.....	1,164	35	33.8a	- 3.7	66a	5†	8a	21	35a	2.45	+ 1.15	0.92	7.5	11	.....	.....	.....	nw.	T. H. Whitney
Bonaparte (near).....	Van Buren.....	563	35	36.4	- 3.2	64	6	12	21	32	2.58	+ 0.78	0.90	0.6	9	11	5	14	nw.	B. R. Vale
Burlington.....	Des Moines.....	544	30	36.8	- 4.3	64	6†	13	21	28	2.87	+ 1.01	1.10	4.0	11	9	6	15	nw.	John W. Donnelly
Centerville.....	Appanoose.....	1,013	21	.....	.....	60	6	11	10	27	1.39	- 0.05	0.76	0.4	9	4	9	17	nw.	Thomas Wood
Chariton (near).....	Lucas.....	1,042	31	.....	.....	65	5†	11h	21	29h	1.37	- 0.09	0.75	T.	3	8	9	13	w.	C. C. Burr
Clarinda.....	Page.....	1,009	36	34.8	- 4.9	69	5	- 1	21	43	1.32	- 0.20	0.31	4.5	10	14	7	9	nw.	Dr. H. C. Hawley
Columbus Jct.....	Louisa.....	595	25	35.1	- 4.2	64	6†	10	21	32	3.27	+ 1.53	0.94	3.9	10	7	10	13	nw.	Miss Musa Todd
Corning (near).....	Adams.....	1,117	34	35.2	- 2.2	67	5†	1	21	37	1.40	- 0.07	0.64	2.5	4	15	0	15	nw.	Jerome Smith
Corydon.....	Wayne.....	1,101	33	35.6	- 3.2	67	6	9	10	34	2.34	+ 0.84	1.18	T.	6	13	6	11	nw.	A. T. Gallagher
Creston.....	Union.....	1,312	21	33.9	- 4.3	66	6	5	21	34	1.49	- 0.23	0.75	0.4	9	15	4	11	nw.	J. W. Goodsell
Cumberland (near).....	Cass.....	1,225	27	.....	.....	65	5†	.....	.....	.....	1.41	+ 0.32	0.83	1.2	6	6	10	14	nw.	Carl E. Pollock
Earlham (near).....	Madison.....	1,126	24	34.5	- 2.7	65	5†	10	10†	33	1.43	- 0.18	0.64	1.5	7	13	2	15	nw.	George Phillips
Fairfield.....	Jefferson.....	780	42	34.9	- 3.6	64	6	11	21	33	3.03	+ 0.87	1.27	3.2	9	9	4	17	n.	R. M. McKenzie
Glenwood.....	Mills.....	1,100	28	34.2	- 4.4	70	5	0	21	38	3.72	+ 2.57	1.70	3.0	5	12	5	13	nw.	Dr. George Mogridge
Indianola.....	Warren.....	972	35	35.2	- 3.1	65	5	11	10†	36	0.91	- 0.66	0.50	2.5	7	9	8	13	nw.	Seth F. Shenton
Keokuk.....	Lee.....	611	55	37.8	- 3.3	66	6	15	21	29	3.11	+ 1.19	1.32	6.3	9	5	10	15	nw.	U. S. Weather Bureau
Keosauqua.....	Van Buren.....	644	34	34.9	- 4.1	60	5†	13	21	31	2.71	+ 1.10	0.92	3.5	8	9	7	14	se.	J. H. Landes
Knoxville.....	Marion.....	920	31	35.2	- 3.6	65	5†	12	10†	34	1.22	- 0.34	0.65	1.0	6	6	10	14	nw.	W. J. Casey
Lacona.....	Warren.....	824	27	.....	.....	69	6	.....	.....	.....	1.33	- 0.35	0.48	2.0	5	7	17	6	.....	J. B. Alter
Lamoni.....	Decatur.....	1,123	19	35.0	- 3.7	70	7	- 1	21	36	1.03	- 0.41	0.71	1.9	6	13	5	12	ne.	F. S. Parks
Lenox.....	Taylor.....	1,250	31	34.2	- 4.0	69	6	1	21	36	1.39	- 0.08	0.50	3.3	9	13	5	12	nw.	J. L. Hurley
Mount Ayr.....	Ringgold.....	1,215	33	33.9	- 4.9	71	6	4	20	43	0.95	- 0.59	0.45	2.5	7	14	3	13	nw.	Owen Hamersly
Mt. Pleasant.....	Henry.....	729	45	36.4	- 3.3	67	6	11	21	32	2.71	+ 0.90	0.99	2.2	9	7	10	13	nw.	J. H. Jericho
Oakland††	Pottawattamie.....	1,105	7	33.4b	.....	69c	6	2b	21	26d	.....	.....	.....	4.2	12	2	16	n.	M. E. Gray	
Oskaloosa.....	Makaska.....	835	50	35.0	- 3.5	63	6	10	21	32	2.47	+ 0.87	1.08	4.1	9	4	11	15	nw.	Roy R. Robinson
Ottumwa.....	Wapello.....	649	31	38.0	.....	65	6	14	21	35	2.64	+ 1.26	1.11	0.3	7	7	9	14	nw.	C. L. Mikesh
Red Oak (near)††	Montgomery.....	1,030	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	17	8	.....	nw.	B. R. Bridge	
Riverton (near)††	Fremont.....	920	.....	.....	.....	.....	.....	.....	.....	.....	2.06	.....	1.02	2.8	5	11	7	12	nw.	George C. Rader
Sigourney (near).....	Keokuk.....	790	30	34.9	- 3.3	64	6	11	21	34	2.33	+ 0.68	0.93	1.1	8	12	3	15	nw.	W. E. Utterback
Stockport.....	Van Buren.....	747	24	36.0	- 2.4	65	6†	13	21	32	3.66	+ 2.02	1.29	5.5	12	7	7	16	nw.	C. L. Beswick
Thurman.....	Fremont.....	960	29	35.0	- 2.4	71	5	- 2	21	39	2.60	+ 0.75	1.07	3.5	7	10	9	11	n.	H. H. Askew
Tingley.....	Ringgold.....	1,275	1	34.0	.....	66	5†	6	21†	35	1.21	.....	0.73	0.8	5	13	5	12	nw.	James A. Verploegh
Washington.....	Washington.....	769	44	34.4	- 4.3	64	6	9	21	35	2.31	+ 0.64	0.94	3.5	11	6	9	15	nw.	D. D. Sherman
Wescott (near).....	Lee.....	523	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lester J. Larson
Winterset.....	Madison.....	1,129	35	35.0	- 3.4	67	6	9	27	33	1.64	+ 0.17	0.86	1.0	5	11	7	12	nw.	H. S. Ely
Omaha, Neb.....	.....	1,103	55	34.3	- 4.2	72	5	6	21	35	2.96	+ 1.90	1.94	6.1	7	8	10	12	nw.	U. S. Weather Bureau
Means and extremes	.....	.....	.....	35.2	- 3.5	72	5	- 2	21	43	2.07	+ 0.50	1.94	2.5	8	10	7	13	nw.	.....
State means and extremes	.....	.....	.....	32.6	- 4.0	72	5	- 3	21	44	2.10	+ 0.54	2.65	4.2	7	8	7	15	nw.	.....

The departure from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means.

Reference letters, a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.

†Also other dates.

††Temperature not included in means.

‡Received too late to be included in means and summaries.

T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

TEMPERATURE

Stations	Barometric Pressure, Inches (Sea Level)				Relative Humidity, %				Wind					Sunshine			
	Mean	Highest	Date	Lowest	Mean				Total movement	Average hourly velocity	Maximum		% possible	Departure from normal			
					7 a. m.	12 Noon†	7 p. m.	Lowest			Miles	From			Date		
Charles City.....	30.00	30.51	10	29.37	15	86	70	79	42	5	6,491	9.0	26	nw.	26	32	-15
Davenport.....	30.00	30.49	10	29.25	26	85	72	78	41	2	6,140	8.5	25	n.	8	25	-25
Des Moines.....	30.00	30.52	10	29.35	14	77	63	70	33	9	6,222	8.6	29	n.	8	46	-10
Dubuque.....	29.97	30.47	10	29.27	26	81	67	74	37	5	5,809	8.1	30	n.	9	25	-21
Keokuk.....	30.03	30.52	10	29.30	26	76	63	68	35	2	6,967	9.7	35	sw.	25	36	-15
Sioux City.....	30.06	30.61	10	29.41	25	83	64	71	34	5	10,793	15.0	42	nw.	15	36	-17
Omaha, Neb.....	30.04	30.55	10	29.38	25	78	68	70	26	5	7,948	11.0	38	n.	8	44	-11
Means and extremes	30.01	30.61	10	29.25	26	81	67	73	.....	.....	.....	10.0	.....	.....	.....	35	-17
Normals and records	30.07	.....	2d	.....	28th	81	.....	70	.....	6th	.....	8.2	.....	10th	52	.....	.....
		*30.96	1896	29.03	1918	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
					

*Sioux City. §Davenport. ¶Omaha. ||Keokuk. ‡Local mean time.

The mean temperature for the State, as shown by the records of 102 stations, was 32.6°, or 4.0° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 29.7°, or 4.7° lower than the normal; Central, 32.9°, or 3.8 lower than the normal; Southern, 35.2, or 3.5° lower than the normal. The highest monthly mean was 38.0° at Ottumwa, and the lowest was 27.6°, at Northwood. The highest temperature reported was 71° at Little Sioux and Thurman on the 5th and Mt. Ayr on the 6th, and the lowest was -3°, at Little Sioux on the 21st. The temperature range for the State was 74°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 108 stations, was 2.10 inches, or 0.54 inch greater than the normal. By divisions, the average were as follows: Northern, 1.84 inches, or 0.32 inch greater than the normal; Central, 2.39 inches, or 0.81 inch greater than the normal; Southern, 2.07 inches, or 0.50 inch greater than the normal. The greatest amount, 3.88 inches occurred at Davenport, and the least 0.68 inch occurred at Grinnell. The greatest amount in any 24 consecutive hours, 2.65 inches occurred at Onawa on the 14th.

(Continued on Page 77)

Daily Precipitation for November, 1926

Stations	Drainage Basin	Day of Month																															Totals	
		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		
<i>Northern Division</i>																																		
Algona	Des Moines	.12						.10						1.24				.04															1.50	
Allison (near)	Cedar	.10	.05				T.	.38	T.				T.	.82	.02			.20	.05			.05				T.	.05					1.72		
Alta	Raccoon	.18	.05										.18	1.40	.22			.02	T.			.14				.07	.10					2.36		
Alton	Floyd	.03	.02					T.					1.05	.06				T.			.20				.03	.05				T.		1.41		
Belmond	Iowa	.09	.02					T.	.21				T.	1.03	.02	T.		T.	.02	T.		.10				.09						1.58		
Britt	Iowa	.08	.02	T.				T.	.32					.76	.20	T.		T.	T.	T.		T.				.05	T.			T.		1.43		
Charles City ***	Cedar	T.	.03	.03				.14	.20			T.	.08	.70	T.		T.	.05	.09	T.		T.			.01		.18					1.52		
Cherokee	Little Sioux	T.	.10	T.				T.					1.38	T.	T.		T.	T.	T.	T.		T.			.07		.03					1.58		
Decorah	Mississippi			.04				.25	.02				.10	.70				.68									.08					1.87		
Dubuque ***	Mississippi	T.		.03				.23	.13				.30	.40	T.		T.	.27	.20	T.		T.			.06		1.00	.62		T.		3.24		
Estherville	Des Moines		.15										.60	.20	.03							.10	T.			.05	T.			.03		1.16		
Fayette	Mississippi		.15							T.			.08	.97	.09	T.			.80						.02	.58						2.69		
Forest City	Cedar	.10						.25					.02	.60	.17	.05			.10	T.		T.			.10					T.		1.39		
Hampton	Cedar	.16	.15					T.	.44				T.	.95	T.		T.	.09				.08			.06							1.93		
Hawarden	Big Sioux	.03	.06					.03					1.73	.15	T.		T.					.08			.01	.06						2.15		
Humboldt	Des Moines	.21	T.					.24					1.03	T.	T.	T.	T.	T.				.13			T.	.02						1.63		
Independence	Wapsipinicon		.11					T.	T.				1.04					1.15	.08			.11			.11							2.60		
Inwood	Big Sioux	T.	.14				.08	.05					1.57	.16			T.	T.				.16	T.		.01	.08						2.25		
Lansing III	Mississippi	.06		.04						T.			.02	.18	.17			.01	.60							.08						1.76		
Le Mars	Floyd		.07	.25				T.	T.				1.33	T.	T.	T.	T.	T.	T.			.15			T.	T.						1.80		
Marathon	Raccoon	.14						T.	T.				.39	.87		T.	.02	T.	T.	T.		.14			T.	.10						1.66		
Mason City	Cedar	.05	.04					T.	.48			T.	T.	.60	T.	T.	T.	.11	T.	T.		T.		T.	.08	T.						1.36		
Milford (near)	Little Sioux	.18	.02					T.					.55	.30			T.	T.	T.			.05		.10	T.	.06	.17					1.43		
New Hampton	Wapsipinicon							.02	.64				.01	.80		T.	.05	.15			.03	.03			.11					.07		2.49		
Nora Springs	Cedar	.15	.43																														2.49	
Northwood	Cedar	.10	T.				.10	.60					T.	.50	.30	T.	T.	.20							.10	.10						2.00		
Oelwein	Wapsipinicon							.10						.50				1.08								T.							1.68	
Osage	Cedar																																1.68	
Pocahontas	Des Moines	.12	T.					.06					1.59	.07		T.	T.	.30	T.			.14			.04	.02							2.04	
Postville	Mississippi			T.				T.	T.				T.	.85	.07	.18	T.	.30	T.					T.		.33							1.73	
Rock Rapids	Big Sioux	.08	.08					.03					1.30	.23								.13			.03	.12							2.00	
Sanborn	Floyd	.08	.08										.92	.25								.12											1.45	
Sheldon	Floyd	.08	.07					T.	.02				T.	1.39	.14		T.	.01	T.	T.	T.	.12			.03	.05	T.						1.98	
Sioux Center	Floyd	.05	.15										1.35	.20	T.	T.	T.	T.				.20											1.95	
Spencer	Little Sioux	.21											.91	.08				.08				.16				T.							1.44	
Storm Lake	Raccoon	.11	.07					T.					1.60	.09	T.	.01	T.	T.				.03			.01	.01							1.93	
Washita	Little Sioux	.04	.10					T.					1.38	.16	T.	T.	T.					.06			.10	.05							1.89	
Waterloo	Cedar	.10						.30					1.00	.05				.08				.08			.47								2.08	
Waverly	Cedar	.16						.57					.01	.26	.01			.32						.12	.09	.16							1.70	
West Bend	Des Moines	.16						T.					1.10	.07				T.				.07			T.	T.							1.40	
<i>Central Division</i>																																		
Ames	Skunk	.12	.07					.27					.14	.99		.01		.01				.01			.01	.01	.01						1.66	
Audubon	Nishnabotna	.10	.08				.25	.20					.15	2.30	.10			.05																3.23
Baxter	Skunk																																	1.62
Belle Plaine	Iowa	T.	.09	T.				T.	.10	.16			.04	.81	T.	T.	.07	.13			T.				.15									1.71
Boone	Des Moines	.18	T.					T.	.22	T.			T.	1.31	T.		T.	.07	T.			T.												1.71
Carroll III	Raccoon	.40	.35					.35					.13	1.87	.13																			3.28
Cedar Rapids	Cedar	.07						.02	.21				.13	.36	T.			T.	.40			T.			.03	1.95							3.17	
Clinton	Mississippi	.07						.39	.32				.21	1.14				.61	.13			.08			.43								3.38	
Davenport ***	Mississippi	.14						.67	.35				.68	.95	T.		T.	.34	.18	.01	T.			.01	.20	.35							3.88	
Davenport (No. 2)	Mississippi	.15						.37	.45				.11	1.33	.03		T.	.16	.51	.02	T.			.01	.03	.48				T.			3.67	
Denison	Missouri	.04	.03					.11					2.30	T.								T.				.04								2.52
Des Moines ***	Des Moines	.18	.02				.73	.33					.28	.62	.01	T.	.02	.03		T.					.10	.11							2.43	
Fairport	Mississippi	.17						.14	.48				.22	1.37	.06			.14	.22			.04			.04	.51							3.35	
Fort Dodge	Des Moines	.14	.04					.47					1.19					T.	.04			.15			.04								2.07	
Grinnell	Iowa	T.	.04					.07	.11				.07	.15				.09	T.			T.			.15								0.68	
Grundy Center	Cedar	T.	.24	T.				T.	.22				.10	1.10	T.		T.	.24	.08			.16			T.	.20							2.34	
Guthrie Center	Raccoon	.08	.08	T.				.35					.10	.70	.17			.08							T.	.16							1.72	
Harlan	Nishnabotna	T.	T.					.42					.60	2.10	T.			T.							T.	.16							3.12	
Iowa City	Iowa		.09					.20	.26				.77	.79	.04			.11	.21					.02	.87								3.36	
Iowa Falls	Iowa	.10	.08	.02				.01	.30	.02			T.	.84	.01		T.	.10			T.			.09		.02					.06			1.65
Jefferson	Raccoon	.05	.28					.28					T.	1.63	T.		T.	T.				T.												2.24
Le Claire III	Mississippi												.48	1.75	.03			.01			.01	.30			.02	.01							2.66	
Little Sioux	Little Sioux	.01	.02					.02					.31	.82	.04	T.	.16	.24				.03			.10	.58							2.81	
Logan	Missouri							.18					.52	2.17	.14						.15				T.									2.66
Maquoketa	Maquoketa			T.				.19	.31				.31	.82	.04	T.	.16	.24				.03			.10	.58								2.81
Marshalltown	Iowa																																	

Daily Precipitation for November, 1926—Continued

Stations	Drainage Basin	Day of Month																															Totals		
		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			
<i>Southern Division</i>																																			
Afton	Grand		.08	.10				.25						.18	.58	.04					.04						.03								1.30
Albia	Des Moines		T.	.06				.17	.01					.20	.22	.02	T.	.01	.04								1.14								1.87
Atlantic	Nishnabotna		.01	.10	.10			T.	.35					.55	.92	.10		.05	T.		.05					.02	.20							2.45	
Bonaparte (near)	Des Moines		T.	.09				.44	.30					.26	.52	.01			.04	.02							.90							2.58	
Burlington	Mississippi		.01		.04	.02			.28	.29				.47	1.10	.01		.10	.09								.46								2.87
Centerville	Chariton		.01	T.	.08	T.			.02	.03				.21	.26	.01	T.	T.	.01		T.						.76								1.39
Chariton (near)	Chariton							.38						T.	.75	T.		T.	T.								.24								1.37
Clarinda	Nodaway			.04				.02	.16					.31	.28	.07					.24	.08					.04								1.32
Columbus Jct.	Iowa			.14					.14	.60				.36	.94	.04	T.	.09	.18							T.	.75		.03						3.27
Corning (near)	Nodaway			T.						.20				.31	.64	.04		T.	T.		.25						T.								1.40
Corydon	Chariton			T.	.09				.08	.08	T.			.22	.69				T.		T.							1.18							2.34
Creston	Missouri		.07	.08	.10				T.	T.				.32	.55	.05			T.	T.	.02						T.	.10							1.49
Cumberl'd (near)	Nodaway		T.	.03	T.				.19					.34	.83	T.		T.	T.	T.	.01						T.	.01							1.41
Earlham (near)	Des Moines			.05	.13	T.			T.	.48				.08	.64	.02	T.	T.	T.								T.	.08							1.48
Fairfield	Skunk				.12				.49	.09				.50	.31	.05		.05	.15								T.	1.27							3.03
Glenwood	Missouri		T.		.02				T.	.15				1.70	1.65	T.					.20						T.								3.72
Indianola	Des Moines			.14	.07				T.	T.				.25	.25				T.	.10							.08	.02							0.91
Keokuk**	Mississippi		T.	T.	.05				.55	.14				1.11	.45	.06		.48									.18	.09		T.					3.11
Keosauqua	Des Moines				.04				.76	.16				.24	.48	T.		.20	.05								T.	.78	T.						2.71
Knoxville	Des Moines			.03	.16				.18	T.				.31	.65				T.	T.								.10							1.22
Lacona	Des Moines							.25	.10					.23	.27							.14	T.					.48							1.33
Lamoni	Grand			T.	.09				.08	T.				.16	.55	.01			T.								T.								1.03
Lenox	Missouri			.05	.03				.43	.50	.03			.43	.50	.03		.02				.10	.05				T.	.18							1.39
Mount Ayr	Grand		.03	T.	.03	T.			T.					.21	.45	.03			T.	.18		.10	.05				.02								0.95
Mt. Pleasant	Skunk		T.		.09				.22	.29				.31	.68	.06		.06	.09								T.	.91							2.71
Oakland	Nishnabotna			T.	.10				.10						T.		T.				T.	.32					T.								**
Oskaloosa	Des Moines			T.	.11	.02			.18	.22				.21	.53	.03	T.	T.	.09	T.							T.	1.08							2.47
Ottumwa	Des Moines		T.	T.	.05	T.			.18	.38				.30	.59	T.			T.	.03	T.						T.	1.11							2.64
Red Oak (near)	Missouri								T.	.35								T.		.04							T.								**
Riverton (near)	Nishnabotna			T.					T.	1.02				.28	.57				T.	T.		.19					T.								2.06
Sigourney (near)	Skunk				.09	T.			.09	.22				.15	.65	.10			T.	.10							T.	.93							2.33
Stockport	Skunk			.05		.06	.02		.47	.31				.38	.58	.07	.03	.20	.20								1.29								3.66
Thurman	Missouri			T.				T.	.90					.34	1.07	.10			T.		.15	.03						.01	T.						2.60
Tingley	Platt			T.	.12				T.					.17	.73	T.			T.		.15							.04							1.21
Washington	Skunk				.08	T.			.07	.22	T.	T.		.15	.42	.10			.12	.16							.03	.94	.02						2.31
Wescott (near)	Mississippi																																		
Winterset	Des Moines			.10	T.					.52				.08	.86	.08		T.	T.	T.							T.								1.64
Omaha, Neb.***	Missouri		T.	T.				.02	.25					1.38	.91		T.	T.	T.	T.	.30						.02	.08							2.96

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

***Regular Weather Bureau Station; precipitation is for 24-hour period, midnight to midnight.

**Incomplete.

*Precipitation included in the next following measurement.

T. Precipitation is less than .01 inch rain or melted snow.

(Continued from Page 75)

SNOWFALL

The average snowfall for the State was 4.2 inches, or 1.9 inches greater than the normal and 0.2 inch greater than November, 1925. The amounts were rather unevenly distributed, being the greatest in the northern division and least in the southern division. The heaviest amounts occurred in the northeastern portion, where four stations reported more than ten inches. Several stations in the central and southern division reported less than an inch and three stations reported only traces. Snow fell on numerous dates throughout the month, the heaviest being on the 18th, and at several stations in the northern half of the State the ground was still covered at the close of the month.

MISCELLANEOUS PHENOMENA

Aurora: 28th.

Fog: 3d, 11th, 13th, 23d, 24th, 25th.

Hail: 8th, 25th, 26th.

Halos (lunar and solar): 6th, 16th, 17th, 20th, 21st, 22d, 24th.

Rainbow: 14th.

Sleet: 8th, 9th, 14th, 16th, 21st, 22d, 23d, 24th, 25th, 26th, 29th.

Thunderstorms: 7th, 8th, 13th, 14th, 15th, 25th, 26th.

Winds (strong): 8th, 9th, 15th, 16th, 18th, 19th, 26th.

RIVERS

Rather high stages prevailed on the Mississippi River with a falling tendency during most of the first two weeks and a general rising tendency thereafter, though there were numerous fluctuations. Moderate stages prevailed on all interior rivers. There were no important fluctuations except a moderate rise occurred following the heavy rains on the 14th. Moderate stages also prevailed on the Missouri River with a gradual fall throughout the month. There was considerable floating ice on all rivers during the last two weeks.

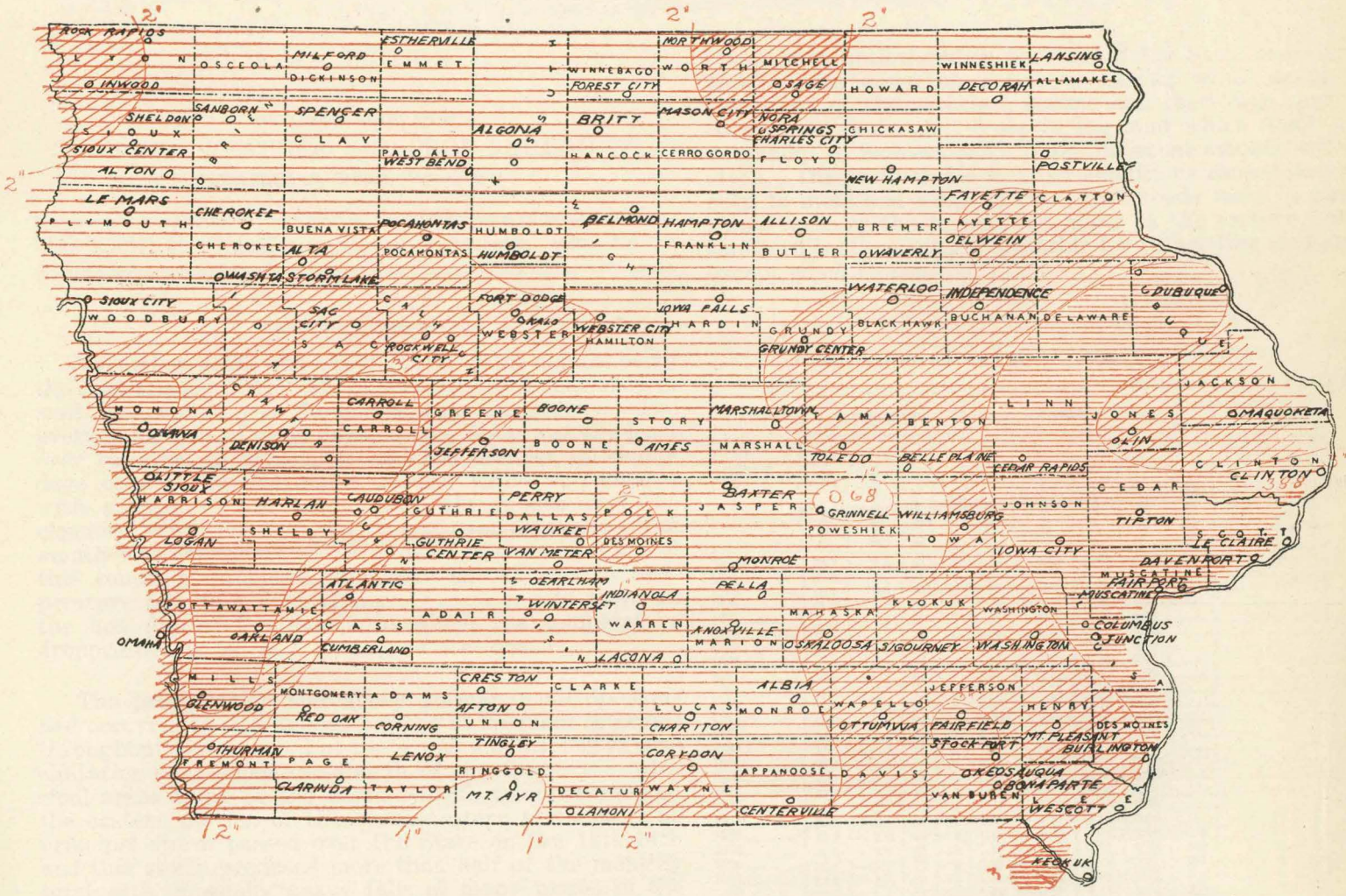
ERRATA

Report for September, 1926. Page 66. Independence; days with 0.01 inch or more precipitation, published 13, should be 14; Waterloo, mean temperature published 63.3°, should be 63.2°; departure published -0.8°, should be -0.9°. Page 67. Sigourney; days with 0.01 inch or more precipitation published 15, should be 16. Report for October, 1926. Page 74. Sioux City. Mean temperature published 52.6°, should be 52.7°; departure published +1.7°, should be +1.8°. Page 75. 7:00 am. humidity published 77%, should be 76%. Page 78. Maximum temperature on the 4th published 61°, should be 64°; mean maximum published 62.7°, should be 62.8°.

Daily Maximum and Minimum Temperature for the Month of November, 1926

Stations	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	Mean
Northern Division																															
Algona.....	45	34	34	40	61	57	53	50	31	28	35	48	57	53	41	36	29	25	25	21	30	28	36	33	35	35	24	32	33	47	37.9
(Minimum.....)	24	17	37	29	30	38	39	23	13	7	14	25	45	40	32	28	23	20	15	10	9	17	7	16	35	15	11	22	15	25	22.2
Alta.....	47	32	32	45	64	59	48	43	26	28	41	51	58	49	36	34	25	23	18	30	25	37	31	26	30	28	31	38	48	37.1	
(Minimum.....)	22	18	30	28	31	35	38	24	14	7	20	28	45	34	31	25	20	19	15	10	7	15	11	17	28	14	14	24	17	20	22.0
Alton.....	49	33	35	46	63	60	52	42	28	28	42	53	54	47	36	36	28	24	19	17	26	25	35	30	37	30	28	32	38	45	37.4
(Minimum.....)	25	16	30	30	26	30	34	28	15	7	24	30	43	33	30	28	20	19	17	13	8	15	4	13	26	14	16	22	20	25	22.0
Belmond.....	43	35	35	40	62	59	53	50	28	27	37	48	58	55	51	37	27	25	24	19	31	26	37	32	35	35	23	35	35	49	38.4
(Minimum.....)	24	15	30	26	28	37	38	28	13	1	5	25	45	41	31	27	23	20	16	8	8	17	0	15	21	16	11	23	14	24	21.0
Charles City.....	38	38	40	37	60	56	56	47	26	25	34	48	54	55	48	34	28	28	23	20	26	29	36	30	36	34	26	35	32	47	37.5
(Minimum.....)	26	20	29	27	26	37	44	26	14	9	12	25	42	42	33	26	25	22	19	10	10	16	12	18	30	15	10	20	14	21	22.7
Decorau.....	40	38	39	35	58	45	58	58	38	25	32	46	49	54	53	50	30	30	26	22	20	30	36	35	36	36	23	38	32	42	38.5
(Minimum.....)	26	20	30	25	18	32	35	27	11	4	0	15	23	25	17	20	21	19	16	5	0	10	2	17	26	15	5	23	13	22	17.4
Dubuque.....	15	39	38	36	57	57	63	53	32	29	34	46	50	56	51	37	30	32	29	25	20	29	36	35	39	39	31	42	32	49	39.7
(Minimum.....)	30	24	34	30	31	43	43	32	21	16	15	27	41	42	36	29	26	27	24	13	10	19	12	26	29	17	13	29	21	24	26.1
Forest City.....	42	33	34	39	63	53	50	39	33	28	34	45	54	50	48	36	28	26	24	18	32	27	36	34	35	32	22	33	34	46	36.9
(Minimum.....)	23	13	30	29	25	36	39	26	12	4	8	22	34	40	34	26	22	20	15	5	8	12	10	15	23	15	10	20	10	25	20.4
Independence.....	46	39	37	36	61	57	61	61	41	31	34	48	51	56	55	40	33	31	28	24	32	28	35	34	37	34	25	37	34	47	40.4
(Minimum.....)	25	22	32	25	24	36	41	31	18	11	12	27	34	40	32	31	24	24	20	12	14	12	14	16	25	14	10	10	15	20	22.4
Inwood.....	38	34	34	46	67	60	50	41	28	27	42	50	53	44	35	36	26	22	21	18	24	24	34	29	36	27	27	30	36	40	36.0
(Minimum.....)	19	14	29	28	27	32	34	25	15	4	24	28	37	32	28	26	19	17	15	10	5	5	0	9	24	11	15	20	17	21	19.7
Mason City.....	34	35	38	38	62	56	52	49	28	22	32	45	55	54	50	36	27	27	24	20	27	27	35	35	35	36	22	34	33	45	37.1
(Minimum.....)	25	17	29	27	26	37	41	25	13	2	21	40	42	32	24	23	22	16	8	7	18	13	15	24	14	7	21	12	25	20.9	
Milford (near).....	44	31	33	43	63	56	49	42	32	27	39	50	56	46	35	35	24	22	21	17	29	23	35	33	36	29	23	32	32	43	36.0
(Minimum.....)	24	16	30	28	25	33	34	28	13	5	16	27	41	31	30	23	20	17	13	8	6	15	8	15	24	12	21	9	15	20.1	
New Hampton.....																															
Northwood.....	40	36	37	38	59	65	44	38	20	22	28	40	57	51	46	32	27	27	24	18	25	28	34	29	35	34	25	33	29	44	35.5
(Minimum.....)	23	17	29	28	25	35	38	20	11	3	4	20	39	39	30	24	22	20	15	8	7	15	11	14	25	14	7	19	9	22	19.8
Pocahontas.....	45	35	35	44	64	60	51	47	30	27	37	53	60	52	39	36	28	25	29	20	33	26	40	33	36	34	26	33	37	48	38.8
(Minimum.....)	20	15	31	29	28	35	35	29	15	7	15	28	45	39	25	28	23	20	16	12	9	15	4	15	27	15	11	23	16	25	21.8
Postville.....	38	37	35	34	59	54	60	55	32	27	31	44	49	53	52	34	28	28	27	22	23	28	35	33	35	34	21	38	32	44	37.4
(Minimum.....)	26	22	27	24	26	31	39	29	12	6	10	19	39	38	29	22	21	20	18	7	2	10	2	16	25	11	5	20	9	22	19.7
Rock Rapids.....	50	33	33	44	61	60	52	42	30	27	42	53	52	42	37	37	27	21	21	25	25	34	32	33	37	32	26	30	37	40	37.2
(Minimum.....)	24	16	30	29	25	31	33	25	14	6	22	26	41	32	31	27	17	15	11	6	14	1	14	16	24	11	15	18	16	23	20.4
Central Division																															
Belle Plaine.....	46	42	36	37	64	63	63	57	35	31	37	51	55	58	57	38	34	28	29	27	29	34	39	35	40	38	26	38	34	54	41.8
(Minimum.....)	26	16	32	24	21	34	45	35	19	11	13	26	42	43	35	32	22	24	22	13	9	16	14	20	28	20	13	26	18	27	24.3
Boone.....	50	38	36	44	67	65	58	54	32	31	41	55	58	60	54	39	35	26	29	25	35	32	46	38	39	38	29	37	41	56	42.9
(Minimum.....)	25	13	32	30	23	28	40	31	18	7	20	29	47	46	34	33	25	23	21	15	11	10	10	19	29	21	13	26	24	28	24.4
Carroll.....	50	33	38	42	65	64	51	47	29	25	38	51	59	51	46	47	33	32	28	22	32	32	43	40	38	35	29	37	44	54	41.2
(Minimum.....)	23	15	30	29	30	36	35	28	14	3	17	26	46	40	32	31	21	18	17	13	10	15	15	19	30	17	15	25	20	30	23.3
Cedar Rapids.....	46	40	37	36	60	60	64	55	37	31	34	50	50	56	51	38	35	28	27	24	25	34	38	35	41	42	28	49	35	53	41.3
(Minimum.....)	28	18	33	25	23	34	44	37	20	13	11	24	41	41	35	32	23	25	21	15	5	12	9	22	27	20	13	26	19	23	24.0
Davenport.....	50	43	38	40	58	63	62	53	39	30	33	50	50	58	51	39	34	29	28	23	20	34	40	34	56	53	33	48	34	53	42.5
(Minimum.....)	30	26	33	31	34	42	44	39	20	16	21	33	42	43	35	34	26	26	22	16	9	19	25	26	32	19	17	32	22	29	28.0
Des Moines.....	49	39	38	44	66	62	55	52	30	30	40	54	58	62	43	39	32	29	30	24	36	35	48	35	42	37	37	41	42	59	42.9
(Minimum.....)	27	21	33	33	33	42	44	29	19	13	21	30	47	43	36	32	25	24	21	17	14	17	24	25	34	20	18	29	26	22	27.4
Ft. Dodge.....	50	35	35	43	65	60	55	52	30	25	37</																				

TOTAL PRECIPITATION, NOVEMBER, 1926



SCALE OF SHADES IN INCHES

Less than 1

1 to 2

2 to 3

More than 3

CLIMATOLOGICAL DATA.

IOWA SECTION

In co-operation with
IOWA WEATHER AND CROP BUREAU

CHARLES D. REED, Meteorologist

VOL. XXXVI DES MOINES, IOWA, DECEMBER, 1926 No. 12

GENERAL SUMMARY

There were no unusual weather features during December, 1926. The temperature averaged somewhat below normal for the State, the deficiency being most pronounced in the northern division and least in the southern division, where a few stations reported a slight excess. Fluctuations in temperature were frequent with no protracted periods of either cold or mild weather. The longest period of cold weather and greatest deficiency occurred from the 13th to 18th, inclusive, which was immediately followed by the longest period of mild weather, extending from the 19th to 23d. Zero weather occurred in all portions of the State, the average number of days with zero, or lower, was about eight in the northern division, gradually diminishing to three in the southern division.

For the State as a whole the precipitation was slightly below normal and was unevenly distributed both as to time and locality. A number of stations in the northern division reported practically the entire monthly total as snow and several in the southern division reported only traces of snow. Considerably more than half of the monthly precipitation occurred during a single storm ending on the 7th; during the rest of the month the amounts were mostly light though some rather heavy amounts occurred at several stations in the northern division on the 23d. All precipitation periods were rather general throughout the State but the amount varied much. There was an excess over almost the entire northern division and about one-third of the central division, while in the southern division only one station reported an excess. There was considerable glaze from the 4th to 7th, that was quite general and on several other dates during the rest of the month in smaller areas. While as a rule the glaze was not heavy, it caused some local damage to overhead wires. The greatest damage was by automobiles skidding on slippery streets and roads. The snowfall ranged from none to more than 24.0 inches and was greatest in the northern division. There was considerable wind accompanying the heaviest falls of snow and much drifting resulted. Railroad traffic was interfered with on the 7th, 13th and 23d and many highways were blocked and it was necessary to cut passages through the drifts. In the central and southern division

the snow was not heavy enough to cause any inconvenience except in the extreme western portion.

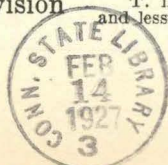
Conditions were mostly unfavorable for winter grains and grasses. The ground was unprotected during the most severe weather over the southern and most of the central divisions and there was some damage from glaze and alternate freezing and thawing. Ice became heavy enough to harvest after the cold weather at the middle of the month, but the mild weather that occurred later made it soft and spongy over most of the southern half of the State. Roads were rough over the southern portion during the first half of the month but there was an improvement later and nearly all roads were passable at the end of the month.

F. L. D.

COMPARATIVE DATA FOR THE STATE—DECEMBER

YEAR	Temperature				Precipitation				Number of Days				
	Mean	Departure	Highest	Lowest	Total	Departure	Greatest	Least	Snowfall	With pre. .01 in. or more	Clear	Partly cloudy	Cloudy
1873	22.6	-1.5	65	-10	2.51	+1.37	8.56	0.60					
1874	24.0	-0.1	60	-18	0.84	-0.30	3.22	0.10					
1875	30.0	+5.9	68	-18	2.06	+0.92	4.73	0.73					
1876	11.9	-12.2	56	-28	0.24	-0.90	1.40	0.00					
1877	36.8	+12.7	65	-11	2.18	+1.04	3.90	1.00					
1878	17.2	-6.9	52	-17	0.77	-0.37	2.78	0.10					
1879	16.1	-8.0	58	-35	1.40	+0.26	3.31	0.20					
1880	16.1	-8.0	55	-25	0.85	-0.29	2.50	0.06					
1881	33.8	+9.7	60	-10	1.24	+0.10	4.67	0.10					
1882	21.0	-3.1	54	-23	1.57	+0.43	3.50	0.48					
1883	24.8	+0.7	62	-24	1.03	+0.11	2.75	0.00					
1884	16.2	-7.9	59	-30	2.15	+1.01	4.42	0.70					
1885	24.6	+0.5	55	-22	1.45	+0.31	3.73	0.40					
1886	14.4	-9.7	55	-32	0.80	-0.34	1.64	0.10					
1887	20.3	-3.8	57	-25	2.17	+1.03	5.85	0.60					
1888	28.6	+4.5	65	-6	1.46	+0.32	2.90	0.25					
1889	35.8	+11.7	69	-2	1.06	-0.08	3.20	0.00					
1890	28.5	+4.4	68	-18	0.58	-0.56	2.72	0.00					
1891	32.3	+8.2	72	-14	2.41	+1.27	4.50	1.21		6	14	9	8
1892	18.9	-5.2	68	-29	1.65	+0.51	3.04	0.20	10.9	8	9	8	14
1893	22.0	-2.1	70	-21	1.31	+0.17	2.80	0.46	7.6	7	10	9	12
1894	30.1	+6.0	73	-17	0.95	-0.19	1.75	0.25	1.3	3	15	6	10
1895	25.4	+1.3	63	-16	1.63	+0.49	5.74	0.00	4.1	5	11	9	11
1896	30.8	+6.7	70	-10	0.65	-0.49	1.79	T.	1.6	4	10	8	13
1897	18.0	-6.1	60	-25	1.65	+0.51	3.22	0.61	15.9	6	11	7	13
1898	18.1	-6.0	60	-25	0.48	-0.66	1.70	T.	3.9	3	15	8	8
1899	22.6	-1.5	75	-19	1.61	+0.47	4.28	0.10	4.3	5	12	9	10
1900	26.9	+2.8	63	-10	0.45	-0.69	2.70	T.	2.4	4	13	6	12
1901	20.5	-3.6	64	-31	0.93	-0.21	2.75	0.05	5.4	6	10	9	12
1902	20.1	-4.0	59	-20	2.23	+1.09	5.51	0.67	12.9	8	9	6	16
1903	19.6	-4.5	58	-27	0.41	-0.73	1.96	T.	3.7	4	11	9	11
1904	23.4	-0.7	67	-19	1.44	+0.30	3.68	0.06	12.3	5	12	7	12
1905	27.0	+2.9	62	-11	0.52	-0.62	1.60	T.	4.2	3	19	6	6
1906	25.7	+1.6	65	-9	1.43	+0.29	2.81	0.37	1.4	6	11	7	13
1907	28.8	+4.7	62	-9	1.00	-0.14	2.28	0.05	4.7	5	10	7	14
1908	27.2	+3.1	67	-17	0.57	-0.57	2.07	0.05	3.8	3	15	8	8
1909	15.1	-9.0	60	-26	2.18	+1.04	6.10	0.89	13.7	11	10	5	16
1910	23.4	-0.7	57	-14	0.37	-0.77	1.39	0.01	3.0	3	15	7	9
1911	27.9	+3.8	60	-24	2.57	+1.43	4.43	0.62	12.6	7	13	6	12
1912	29.2	+5.1	64	-13	0.74	-0.40	1.75	0.10	1.1	3	18	7	6
1913	32.0	+7.9	65	-13	1.02	-0.12	4.73	0.00	1.3	4	15	5	11
1914	15.7	-8.4	63	-31	1.30	+0.16	2.24	0.57	11.1	9	10	6	15
1915	25.0	+0.9	56	-10	0.69	-0.45	1.70	T.	4.6	5	11	8	12
1916	18.7	-5.4	67	-25	1.04	-0.10	2.00	0.35	6.7	6	15	8	8
1917	14.5	-9.6	62	-40	0.56	-0.58	1.70	0.14	6.7	6	10	9	12
1918	32.7	+8.6	68	-7	1.30	+0.16	3.30	0.37	5.1	8	9	8	14
1919	15.0	-9.1	52	-36	0.54	-0.60	1.55	0.08	5.8	4	11	7	13
1920	26.4	+2.3	65	-26	1.16	+0.02	2.64	0.26	7.4	5	10	8	13
1921	28.2	+4.1	69	-22	1.02	-0.12	3.72	T.	2.9	4	14	9	8
1922	24.0	-0.1	65	-25	0.37	-0.77	0.97	T.	2.2	3	16	7	8
1923	33.5	+9.4	68	-21	0.76	-0.38	2.22	T.	4.4	4	14	6	11
1924	15.4	-8.7	62	-33	1.79	+0.65	2.93	0.90	8.1	8	12	6	13
1925	21.0	-3.1	64	-25	1.30	+0.16	3.52	0.30	10.6	5	12	8	11
1926	21.9	-2.2	58	-21	1.06	-0.08	2.42	0.28	5.7	4	10	7	14

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.



Climatological Data for December, 1926

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit					Precipitation, in inches				Number of Days			Prevailing direction of wind	Observers			
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more			Clear	Partly cloudy	Cloudy
Northern Division																				
Algona	Kossuth	1,213	53	17.4	-4.1	38	19	-16	14	31	1.48	+0.53	1.10	11.0	5	18	3	10	nw.	W. E. Laird
Allison (near)	Butler	1,044	14	18.8	-2.6	40	3	-15	14	42	1.20	0.00	0.60	7.0	5	10	7	14	nw.	J. A. Bell
Alta	Buena Vista	1,513	35	17.7	-3.7	40	30	-15	14	26	1.58	+0.67	0.85	11.7	6	9	10	12	nw.	D. E. Hadden
Alton	Sioux	1,305	21	17.6	-3.2	40	30	-16	15	27	1.12	+0.32	0.50	11.0	4	5	15	11	nw.	W. S. Slagle
Belmond	Wright	1,181	16	17.2	-3.7	39	3	-17	14	35	1.46	+0.13	0.88	11.5	4	5	2	24	se.	H. F. Luick
Britt	Hancock	1,236	39	15.6 ^a	-4.9	38	19	-17 ^b	14	33 ^b	1.95	+1.15	1.04	18.0	4	9	10	12	nw.	Jas. S. Ross
Charles City	Floyd	1,015	35	16.9	-3.5	39	3	-15	14	31	1.84	+0.59	1.29	10.5	6	6	9	16	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	4	16.8	-	39	2 [†]	-19	14 [†]	33	1.03	-	0.72	10.4	4	12	6	13	sw.	J. E. Wirth
Decorah	Winneshiek	872	33	17.6	-4.6	39	31	-16	14	45	1.05	-0.23	0.40	13.0	5	9	9	13	nw.	M. D. Whitney
Dubuque	Dubuque	700	53	22.0	-2.7	41	30	-10	14	43	0.99	-0.52	0.74	4.8	5	6	8	17	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	31	17.0	-3.3	40	3 [†]	-21	14	34	1.85	+0.64	0.85	11.0	4	17	7	7	nw.	A. O. Peterson
Fayette	Fayette	1,003	38	19.5	-1.9	41	30	-13	14	43	1.25	-0.16	1.02	6.4	6	5	9	17	sw.	R. Z. Latimer
Forest City	Winnebago	1,226	32	16.3	-5.0	38	10 [†]	-18	14	33	2.42	+1.54	1.00	24.2	7	10	10	11	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	1	18.2	-4.7	40	8	-13	14	30	1.41	+0.16	0.89	7.2	4	13	2	16	se.	L. H. Davis
Hawarden	Sioux	1,181	1	18.2	-4.7	40	8	-13	14	30	0.82	-	0.58	6.2	4	13	6	12	s.	Earl V. Slife
Humboldt	Humboldt	1,005	38	18.0	-4.6	40	19 [†]	-15	14	33	1.43	+0.57	0.72	13.0	4	6	9	16	se.	H. O. Snitkey
Independence	Buchanan	921	62	20.9	-2.7	46	31	-11	14	38	1.17	-0.14	0.81	7.6	4	13	2	16	se.	Dr. Geo. Boody
Inwood	Lyon	1,474	22	17.2	-2.2	40	30	-15	14	33	1.25	+0.59	0.63	9.7	6	12	8	11	nw.	A. C. Hanson
Lansing	Allamakee	692	19	18.9	-	41	30	-17	15	29	1.17	+0.30	0.85	8.0	3	17	3	11	sw.	Mrs. Mary Spinner
Le Mars	Plymouth	1,221	30	18.9	-3.5	41	30	-17	15	29	1.17	+0.30	0.85	8.0	3	17	3	11	sw.	Mrs. M. O. Wooley
Marathon	Buena Vista	1,148	29	16.2	-4.7	38	11 [†]	-17	14 [†]	34	1.56	+0.68	0.90	15.0	5	4	18	9	sw.	E. G. Smith
Mason City	Cerro Gordo	1,430	6	14.4	-	38	30	-21	14	30	1.56	-	0.66	14.2	5	10	4	17	sw.	Amer. Beet Sugar Co
Milford (near)	Dickinson	1,169	29	18.1	-5.0	40	10 [†]	-18	14 [†]	47	1.82	+0.62	0.90	11.2	6	11	6	14	s.	Dr. F. J. Smith
New Hampton	Chickasaw	1,064	14	18.1	-5.0	40	10 [†]	-18	14 [†]	47	1.82	+0.62	0.90	11.2	6	11	6	14	s.	D. W. Dawson
Nora Springs	Floyd	1,064	14	18.1	-5.0	40	10 [†]	-18	14 [†]	47	1.82	+0.62	0.90	11.2	6	11	6	14	s.	Arthur Betts
Northwood	Worth	1,222	30	15.9	-3.8	37	10 [†]	-17	14	41	1.90	+0.67	0.50	18.0	7	7	8	16	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	2	20.6	-	40	30	-7	15	42	0.32	-	0.32	4.0	1	12	3	16	w.	John T. Ridler
Osage	Mitchell	1,163	1	16.8	-	40	30	-18	15	27	1.48	-	0.99	10.8	5	8	12	11	nw.	Geo. H. Munger
Pocahontas	Sioux	1,248	22	17.7	-4.0	39	30	-15	14 [†]	34	1.46	+0.54	0.64	14.6	5	9	8	14	se.	F. E. Hronek
Postville	Clayton	1,192	27	16.4	-4.5	40	30	-19	14	46	1.33	-0.03	1.04	4.5	6	6	8	17	nw.	F. L. Williams
Rock Rapids	Lyon	1,349	27	17.0	-2.7	40	11 [†]	-16	14	34	1.29	+0.66	0.77	12.9	4	13	8	10	sw.	J. K. Medberry
Sanborn	O'Brien	1,553	12	16.4	-3.0	40	30	-18	14 [†]	29	1.60	+0.75	0.56	20.0	4	7	12	12	sw.	J. W. Dow
Sheldon	O'Brien	1,418	1	16.8	-	40	30	-18	15	27	1.48	-	0.99	10.8	5	8	12	11	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	27	16.5	-4.3	40	30	-16	14	27	0.64	-0.24	0.60	6.4	3	9	4	18	w.	J. de Ruyter
Spencer	Clay	1,319	12	16.0	-4.7	38	11 [†]	-20	14	34	2.03	+1.18	1.50	16.0	5	10	6	16	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	37	19.0	-3.5	40	30	-15	14	34	1.17	+0.35	0.61	14.1	6	11	8	12	se.	Geo. H. Fracker
Washta	Cherokee	1,157	23	19.3	-1.8	42	30	-20	14	39	1.29	+0.46	0.80	11.0	4	14	5	12	s.	H. L. Felter
Waterloo	Black Hawk	854	43	21.1	-2.4	41	3 [†]	-11	14	42	0.87	-0.33	0.75	3.0	4	13	6	12	nw.	E. B. Slippy
Waverly	Bremer	936	30	16.4	-4.7	37	19	-19	14	34	1.32	+0.16	0.70	11.5	5	8	11	12	ne.	D. H. Murphy
West Bend	Palo Alto	1,107	33	16.4	-4.7	37	19	-19	14	34	1.32	+0.16	0.70	11.5	5	8	11	12	ne.	Jos. Dorweiler
Means and extremes				17.7	-3.8	40	31	-21	14	47	1.37	+0.34	1.50	11.2	5	10	7	14	nw.	
Central Division																				
Ames	Story	926	49	22.6	-1.2	44	19	-7	14	30	1.04	-0.02	0.61	3.4	6	10	5	16	nw.	Iowa State College
Audubon	Audubon	1,297	31	20.6	-2.2	43	19	-11	14	34	1.34	+0.35	0.70	6.5	5	10	10	11	nw.	Geo. Kibby
Baxter	Jasper	998	26	23.5	-0.7	46	20 [†]	-8	14	38	0.82	-0.53	0.65	5.6	4	9	10	12	nw.	Otto Sanderman
Belle Plaine	Benton	866	36	23.5	-0.7	46	20 [†]	-8	14	38	0.82	-0.53	0.65	5.6	4	9	10	12	nw.	O. C. Burrows
Boone (near)	Boone	1,134	21	22.0	-2.0	44	19	-7	14	34	0.97	+0.08	0.65	2.0	4	10	9	12	nw.	C. F. Henning
Carroll	Carroll	1,265	36	20.4	-3.4	41	19	-10	14 [†]	30	1.34	+0.36	0.64	7.5	3	16	4	11	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	44	22.8	-3.1	44	30	-8	14	39	0.75	-0.56	0.70	2.0	3	8	2	21	nw.	J. T. Wurster
Clinton	Clinton	595	53	24.0	-2.3	47	30	-8	14	40	0.82	-0.96	0.59	1.2	7	7	9	15	sw.	Dr. A. P. Bryant
Davenport	Scott	580	55	25.0	-2.1	46	30	-5	14	41	0.65	-0.86	0.61	0.2	5	7	5	19	w.	U. S. Weather Bureau
Davenport (No. 2)	Scott	600	1	24.8	-	47	30	-6	14	42	0.75	-	0.62	T.	5				sw.	Rex Shrver
Denison	Crawford	1,171	32	21.2	-2.0	42	30	-11	14	30	1.28	+0.41	0.63	9.0	3	7	6	18	nw.	V. L. Byers
Des Moines	Polk	861	48	24.4	-1.6	48	20	-5	14	27	0.67	-0.54	0.35	1.0	6	5	6	20	nw.	U. S. Weather Bureau
Fairport	Muscatine	567	5	25.8	-	49	1 [†]	-5	14	39	0.43	-	0.43	T.	1	12	1	18	w.	Bureau of Fisheries
Fort Dodge	Webster	1,114	26	18.6	-3.7	40	19	-15	14	37	1.63	+0.80	0.86	10.5	4	13	3	15	sw.	Samuel Sampson
Grinnell	Poweshiek	1,031	32	25.3	+0.1	51	1	-7	14	45	0.62	-0.55	0.52	0.5	4	6	6	19	nw.	Paul F. Meyers
Grundy Center	Grundy	976	35	21.2 ^b	-2.7	42 ^b	20	-11 ^b	14	41 ^b									nw.	M. G. Heiberger
Guthrie Center	Guthrie	1,077	31	23.0	-1.5	47	1	-9	14	41	0.80	-0.22	0.35	6.0	3	10	7	14	se.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	27	21.4	-2.2	44	10	-10	14	27	0.83	-0.17	0.30	5.3	3	13	5	13	nw.	Walter Bell
Iowa City	Johnson	733	66	24.2	-1.6	46	30	-6	14	39	0.97	-0.64	0.85	1.0	5	8	11	12	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	33	19.6	-2.9	40	3	-12	14	33	1.39	+0.09	0.75	6.2	7	11	6	14	nw.	C. H. Gilbert
Jefferson	Greene	1,052	27	21.4	-2.2	44	3 [†]	-10	14	33	1.15	+0.08	0.64	5.0	3	10	4	17	nw.	W. I. Lyon
Le Claire	Scott	576	26	22.4 ^b	-1.6	49 ^b	30	-12	14	34 ^b	1.12	+0.24	0.45	9.0	6	10	14	7	nw.	

Climatological Data for December, 1926—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit						Precipitation, in inches				Number of Days			Prevaling direction of wind	Observers			
				Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear			Partly cloudy	Cloudy	
																					Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy
<i>Southern Division</i>																					
Afton	Union	1,212	32	25.2	-1.0	46	1†	-8	14	35	0.85	-0.34	0.52	2.0	3	10	9	12	sw.	S. R. Brown	
Albia	Monroe	959	28	25.9	-0.3	50	30	-4	14	31	0.83	-0.24	0.65	0.2	7	12	2	17	nw.	O. E. McBride	
Atlantic	Cass	1,164	35	23.6	-2.1	46	19	-7	14	27	1.12	0.00	0.53	5.0	6	8	6	17	sw.	T. H. Whitney	
Bonaparte (near)	Van Buren	563	35	26.4	-1.4	53	30	-4	14	37	0.56	-0.70	0.50	T.	3	9	6	16	nw.	B. R. Vale	
Burlington	Des Moines	544	30	27.4	-2.0	51	30	-3	14	39	1.21	-0.39	0.93	2.0	7	9	6	16	ne.	John T. Donnelly	
Centerville	Appanoose	1,013	21	26.1	-1.6	50	30	-4	14	40	0.69	-0.41	0.55	0.7	6	8	6	17	nw.	Thomas Wood	
Chariton (near)	Lucas	1,042	31	26.6	+0.2	58	1	-5	14	43	0.28	-0.88	0.28	T.	1	7	11	13	nw.	C. C. Burr	
Clarinda	Page	1,009	36	25.8	-1.1	49	3†	-6	14†	34	1.04	-0.06	0.54	0.5	5	11	15	5	nw.	Dr. H. C. Hawley	
Columbus Jct.	Louis	595	25	25.2	-2.6	48	1†	-4	14	39	0.78	-0.54	0.70	0.2	6	8	11	12	nw.	Miss Musa Todd	
Corning (near)	Adams	1,117	34	25.8 ^b	+0.6	50	21	-6 ¹	14	34 ^d	0.95	-0.29	0.50	T.	2	17	6	8	sw.	Jerome Smith	
Corydon	Wayne	1,101	33	26.4	-0.4	52	30	-5	14†	40	0.63	-0.66	0.63	0.5	1	14	7	10	nw.	A. T. Gallagher	
Creston	Union	1,312	21	24.4	-0.6	45	3†	-8	14	31	0.40	-0.66	0.20	---	2	13	4	14	nw.	J. W. Goodsell	
Cumberland (near)	Cass	1,225	27	---	---	---	---	---	---	---	0.84	-0.09	0.46	2.5	3	10	11	10	nw.	Carl E. Pollock	
Earlham (near)	Madison	1,126	24	24.2	-0.3	46	19†	-6	14	36	0.68	-0.51	0.41	2.0	4	14	4	13	sw.	Geo. Phillips	
Fairfield	Jefferson	780	42	25.2	-1.2	50	30	-4	14	42	0.47	-1.15	0.30	0.2	5	9	4	18	n.	Prof. R. M. McKenzie	
Glenwood	Mills	1,100	28	25.4	-1.4	50	19	-6	14	32	0.72	+0.05	0.45	3.3	3	8	9	14	se.	Dr. Geo. Mogridge	
Indianola	Warren	972	35	25.0	-0.6	48	20†	-6	14	32	0.65	-0.67	0.35	3.0	4	10	10	11	nw.	Seth F. Shenton	
Keokuk	Lee	614	59	27.8	-1.8	55	3	-2	14	42	1.45	-0.14	0.82	5.7	5	6	8	17	n.	U. S. Weather Bureau	
Keosauqua	Van Buren	644	34	26.1	-1.6	52	30	-3	14	37	0.77	-0.61	0.65	0.5	3	10	7	14	sw.	J. H. Landes	
Knoxville	Marion	920	31	25.2	-0.7	50	30	-3	14	40	0.78	-0.54	0.50	0.5	5	6	8	17	nw.	W. J. Casey	
Lacona	Warren	824	27	---	---	---	---	---	---	---	1.17	-0.45	0.93	0.	8	6	15	10	---	J. B. Alter	
Lamon	Decatur	1,123	19	26.0	-0.0	48	30	-5	14	36	0.47	-0.71	0.30	T.	3	7	8	16	nw.	F. S. Parks	
Lenox	Taylor	1,250	31	25.2	-0.4	49	3	-6	14	36	0.68	-0.30	0.30	0.8	5	9	13	9	nw.	J. L. Hurley	
Mt. Ayr	Ringgold	1,245	33	25.6	-0.9	52	3	-7	13	47	0.97	-0.26	0.53	0.8	5	17	5	9	sw.	Owen Hamersly	
Mt. Pleasant	Henry	730	45	26.5	-1.6	52	30	-3	14	39	0.65	-0.72	0.60	T.	4	7	10	14	nw.	J. H. Jericho	
Oakland	Pottawattamie	1,105	7	25.2 ^h	-0.0	42 ^h	11†	-6 ^h	14	25 ^h	1.23	---	0.58	8.5	3	---	---	---	---	n.	M. E. Gray
Oskaloosa	Mahaska	835	50	25.0	-1.0	48	1	-7	14	39	1.15	-0.02	0.86	2.2	5	7	7	17	nw.	Roy R. Robinson	
Ottumwa	Wapello	649	31	27.2	---	50	1†	-2	14	34	0.81	-0.45	0.76	T.	4	9	7	15	nw.	C. L. Mikesh	
Red Oak (near)	Montgomery	1,030	1	---	---	---	---	---	---	---	1.00	---	0.50	1.0	3	---	---	---	---	nw.	B. R. Bridge
Riverton (near)	Fremont	920	---	---	---	---	---	---	---	---	0.71	---	0.46	0.4	4	10	3	18	nw.	Geo. C. Rader	
Sigourney (near)	Keokuk	790	30	25.7	+0.8	51	1	-5	14	37	0.86	-0.37	0.85	0.5	2	9	5	17	se.	W. E. Utterback	
Stockport	Van Buren	747	24	26.0	-0.8	52	30	-4	14	37	0.88	-0.39	0.77	T.	5	8	7	16	s.	C. L. Beswick	
Thurman	Fremont	960	29	26.6	+1.3	49	19	-4	14	32	0.96	-0.35	0.60	2.2	3	8	9	14	n.	H. H. Askev	
Tingley	Ringgold	1,275	1	24.6	---	47	1†	-8	14	36	1.10	---	0.67	0.6	4	16	4	11	sw.	James A. VerPloegh	
Washington	Washington	757	44	25.8	-0.8	52	20	-6	14	38	1.00	-0.32	0.78	1.0	7	6	7	18	nw.	D. D. Sherman	
Wescott (near)	Lee	523	4	27.0	---	55	3	-4	14	34	---	---	---	---	---	14	5	12	w.	Lester J. Larson	
Winterset	Madison	1,118	35	25.2	-0.6	48	20	-6	14	35	0.60	-0.59	0.40	2.0	2	11	8	12	sw.	H. S. Ely	
Omaha, Neb.	Madison	1,105	55	25.1	-1.3	46	19	-6	14	30	1.20	+0.29	0.56	6.2	6	8	10	13	nw.	U. S. Weather Bureau	
Means and extremes				25.7	-0.8	58	1	-8	14	47	0.84	-0.38	0.93	1.5	4	10	8	13	nw.		
State means and extremes				21.9	-2.2	58	1	-21	14	47	1.06	-0.08	1.50	5.7	4	10	7	14	nw.		

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining means. Reference letters a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc. †Also other dates. ††Received too late to be included in means and summaries. T. Precipitation is less than 0.01 inch rain or melted snow.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level)				Relative Humidity, %				Wind				Sunshine				
	Mean	Highest	Date	Lowest	Date	Mean		Lowest	Date	Total movement	Average hourly velocity		Miles	From	Date	Per cent of possible	Departure from normal
						7 a. m.	12 noon				7 p. m.	Direction						Velocity
Charles City	30.12	30.63	18	29.23	12	91	79	87	63	25	5,393	7.2	25	nw.	13	35	-9
Davenport	30.14	30.70	18	29.28	12	80	75	82	36	16	5,758	7.7	26	w.	13	29	-14
Des Moines	30.12	30.65	18	29.19	12	82	69	77	40	15	5,417	7.3	26	sw.	19	42	-10
Dubuque	30.11	30.67	18	29.28	12	83	72	76	52	15	5,225	7.0	29	n.	1	31	-11
Keokuk	30.15	30.69	18	29.25	12	78	70	75	29	16	6,023	8.1	30	w.	13	32	-13
Sioux City	30.14	30.60	1	29.15	12	90	76	82	50	15	8,583	11.5	44	nw.	13	46	-9
Omaha, Neb.	30.14	30.56	17	29.18	12	84	77	79	48	20	6,071	8.2	38	n.	12	52	0
Means and extremes	30.13	---	---	---	---	85	74	80	---	---	---	8.1	---	---	---	37	-10
Normals and records	30.12	---	29th	---	13th	84	---	77	---	---	---	8.1	---	24th	47	---	
		*31.09	1917	29.00	1920	---	---	---	---	---	---	---	58	nw.	1907	---	

*Sioux City. †Dubuque. ††Keokuk. †Local mean time. †And other dates.

TEMPERATURE

The mean temperature for the State, as shown by the records of 104 stations, was 21.9°, or 2.2° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 17.7°, or 3.8° lower than the normal; Central, 22.3°, or 2.0° lower than the normal; Southern,

25.7°, or 0.8° lower than the normal. The highest monthly mean was 27.8°, at Keokuk, and the lowest was 14.4° at Milford. The highest temperature reported was 58°, at Chariton on the 1st, and the lowest was -21°, at Estherville and Milford on the 14th. The temperature range for the State was 79°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 109 stations, was 1.06 inches, or 0.08 inch less than the normal. By divisions, the averages were as follows: Northern, 1.37 inches, or 0.34 inch more than the normal; Central, 0.96 inch, or 0.21 inch less than the normal; Southern, 0.84 inch, or 0.38 inch less than the normal. The greatest amount, 2.42 inches, occurred at Forest City, and the least, 0.28 inch, occurred at Chariton. The greatest amount in 24 hours, 1.50 inches, occurred at Spencer, on the 7th.

SNOWFALL

The average snowfall for the State was 5.7 inches, or 0.3 inch less than the normal. The greatest amount, 24.2 inches, occurred at Forest City. Lacona reported no snow whatever and several stations in the southern division reported only traces. The snow was rather heavy over all of the northern division and the northern portion of the central division. The snow was light over the southern division except in the extreme southeast corner and a few small areas near the Missouri River. The snow cover varied greatly. The ground was bare the entire month over small areas in the south-central and southeastern portion and over a small area in the northwestern portion the ground was covered the entire month. Over rest of the northern division and the northern portion of the central division the ground became snow covered the latter part of the first week and remained covered during the rest of the month.

Daily Precipitation for December, 1926—Continued

Stations	Drainage Basin	Day of Month																														Totals		
		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	
<i>Southern Division</i>																																		
Afton	Grand						.52																	.25				.08					0.85	
Albia	Des Moines			T.	T.	.02	.65	.01		.07				.04				T.				T.		.02	.02							0.83		
Atlantic	Nishnabotna					.01	.53		T.				T.	T.									.01	.34			.22					1.12		
Bonaparte (near)	Des Moines						.50			T.			T.	.02									T.	.04								0.56		
Burlington	Mississippi			T.		.02	.04	.93			.02				T.								.10	.08								1.21		
Centerville	Charlton			.01	T.	T.	.55				.02		T.									.01		.02		.08	T.		T.	T.		0.69		
Chariton (near)	Charlton				T.		.28						T.											T.								0.28		
Clarinda	Nodaway			.08			.54						.02											.36				.04				1.04		
Columbus Jct.	Iowa			.01		.01	.70				T.			.01									.01			.04						0.78		
Corning (near)	Nodaway						.45																		.50				T.			0.95		
Corydon	Charlton			T.		T.	.63							T.																		0.63		
Creston	Missouri			T.		T.	.20							T.											.20							0.40		
Cumberland (near)	Nodaway			T.		T.	.46																	T.	.34	T.			.04			0.84		
Earlham (near)	Des Moines			T.		T.	.41				T.			.04										T.	.19	T.		.04				0.68		
Farfield	Skunk				.30	.03	.11	T.		T.				.02								.01		T.								0.47		
Glenwood	Missouri						.20																		.45				.07			0.72		
Indianola	Des Moines			.01		T.	.35							T.											.24			.05				0.65		
Keokuk**	Mississippi			.17			.24	.58			T.		T.	T.										.43								1.45		
Keosauqua	Des Moines			T.		T.	.65				.07		T.	T.										.05	T.	T.						0.77		
Knoxville	Des Moines				.05	.10	.50							.05											.08				T.				0.78	
Lacona	Des Moines			.03	.02	.12	.93				.01		.02										.02							.02			1.17	
Lamoni	Grand			.01	T.	.30	T.						T.		T.									T.	.16			T.				0.47		
Lenox	Missouri			.10		.10	.13							T.											.30	T.		.05				0.68		
Mt. Ayr	Grand			T.			.53	.13				.02													.28				.01				0.97	
Mt. Pleasant	Skunk			T.		T.	.01	.60																	.02		T.					0.65		
Oakland	Nishnabotna				T.	T.	.50	T.	T.					T.											.58				.15				1.23	
Oskaloosa	Des Moines	T.			T.	T.	.86							T.	.03										.14	.05					T.		1.15	
Ottumwa	Des Moines				T.		.01	.76						T.	T.										.01	.03							0.81	
Red Oak (near)	Missouri						.50																		.40	T.							1.00	
Riverton (near)	Nishnabotna			T.			*	.46							T.										T.	.10	.22	T.		.03			0.71	
Sigourney (near)	Skunk				T.	T.	.85						T.	T.											.01								0.86	
Stockport	Skunk						.06	.71				.02		T.	T.										.06								0.83	
Thurman	Missouri				T.		.60							T.											.33				.03				0.96	
Tingley	Platt	T.			.03		.04	.67						T.												.36								1.10
Washington	Skunk					.02	.03	.78						T.	.07											.06	T.							1.00
Wescott (near)	Mississippi																								.25								**	
Winterset	Des Moines						.40							T.											.20	T.							0.60	
Omaha, Neb.***	Missouri			T.	T.	.13	.37			.03	T.			.01	T.										.56				.10	T.			1.20	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for 24 hours ending at the time of observation.

|||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

***Regular Weather Bureau Station: precipitation is for 24-hour period, midnight to midnight.

**Incomplete.

*Precipitation included in the next following measurement.

T. Precipitation is less than .01 inch rain or melted snow.

MISCELLANEOUS PHENOMENA

Aurora: 13th.
 Fog: 2d, 3d, 7th, 8th, 9th, 10th, 11th, 12th, 18th, 20th, 21st, 22d, 23d, 29th, 30th.
 Hail: 6th.
 Halos (lunar and solar): 6th, 13th, 16th, 25th, 26th.
 Haze: 22d.
 Parhelia: 13th, 14th.
 Sleet: 4th, 5th, 6th, 7th, 10th, 12th, 13th, 19th, 22d, 23d.

should be recorded on the 16th. Belle Plaine, precipitation on the 26th, recorded 0.15 inch, should be 1.38 inches, and the total 2.85 inches. Washta, a trace of precipitation should be recorded on the 20th. Page 85. Mt. Ayr, a trace of precipitation should be recorded on the 20th.

RIVERS

The Mississippi River averaged considerably above normal. There was running ice during the first half of the month and the river closed the latter part of the second week over the upper and middle course. The gorged ice caused rising stages during most of the last half of the month. There was a gradual fall on the Missouri River till the middle of the month after which there was a gradual rise to rather high winter stages at the end of the month. Low stages prevailed on the interior rivers with very little fluctuation. All interior rivers were frozen the entire month, except in the extreme southern portion of the State.

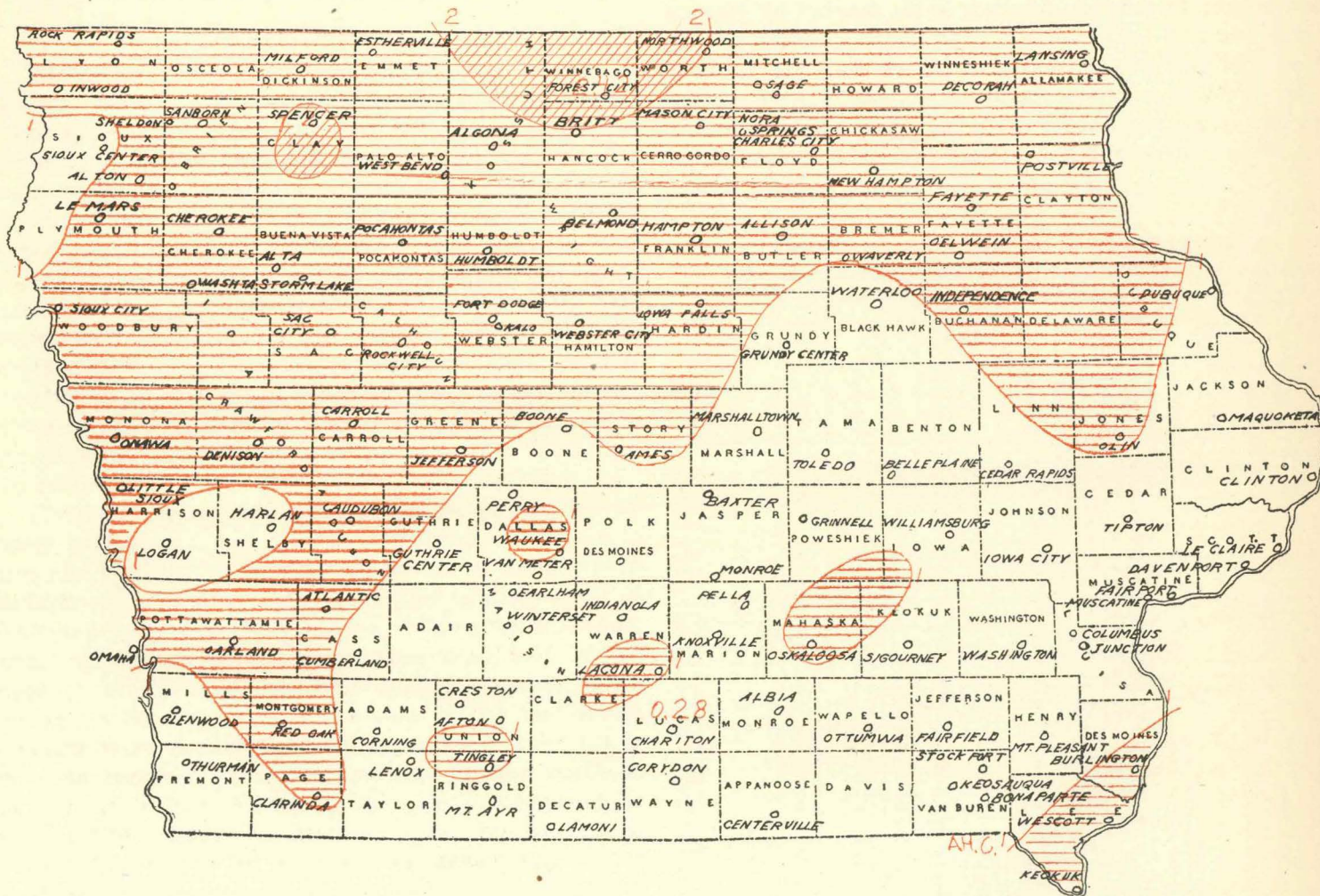
ERRATA

Report for November, 1926. Page 82. Belle Plaine, total precipitation recorded 1.62 inches, should be 2.85 inches; departure recorded -0.07 inch, should be +1.16 inches. Fort Dodge, days with 0.01 inch or more precipitation, recorded 5, should be 7. Toledo, total snowfall recorded 2.0 inches, should be 3.5. Page 83. Keosauqua, date of highest temperature, should be 63° on 7th. Sigourney, total snowfall, recorded 1.1 inches, should be 2.1 inches. Page 84. Milford, a trace of precipitation

Daily Maximum and Minimum Temperature for the Month of December, 1926

Stations	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	Mean	
<i>Northern Division</i>																																	
Algona	(Maximum) 25	34	33	34	23	22	30	25	24	37	36	36	21	-2	4	14	25	17	33	36	32	30	34	17	18	25	28	28	18	37	34	26.2	
	(Minimum) 0	16	22	20	7	4	17	19	11	18	12	20	-10	-16	-13	2	5	2	15	25	16	24	16	-5	-6	8	17	-2	-4	12	14	8.6	
Alta	(Maximum) 18	36	31	28	25	24	30	24	24	30	34	37	34	9	1	6	15	13	24	38	37	34	30	32	12	23	31	31	15	26	40	33	25.7
	(Minimum) 2	18	25	22	6	7	20	17	16	17	12	9	-11	-15	-14	-5	2	0	24	25	24	25	6	3	3	10	12	1	0	21	25	9.7	
Alton	(Maximum) 25	37	33	27	26	24	28	25	25	36	37	32	7	-2	7	14	13	24	36	35	35	33	12	24	29	33	25	25	40	35	26.2		
	(Minimum) 3	18	24	24	6	8	24	17	17	16	10	7	-10	-14	-16	-12	0	-2	23	25	15	25	10	3	0	3	15	7	-1	17	26	9.1	
Belmond	(Maximum) 25	33	39	33	23	23	30	25	24	32	35	37	20	-3	5	13	13	18	38	37	30	30	33	16	23	25	31	20	37	35	26.1		
	(Minimum) 6	18	24	20	9	3	22	19	9	18	11	20	-11	-17	-14	-5	4	2	13	23	14	25	16	-6	-12	5	14	-1	14	18	22	8.2	
Charles City	(Maximum) 21	33	39	29	20	26	31	25	22	36	35	36	18	-5	4	11	11	23	37	36	28	31	33	12	15	22	29	26	16	38	30	24.8	
	(Minimum) 9	21	26	18	3	0	21	16	14	18	18	18	-13	-15	-12	-3	4	9	23	21	21	25	12	-7	-4	5	15	-2	8	10	22	9.0	
Decorah	(Maximum) 33	34	35	32	18	22	32	26	23	35	37	38	35	-8	1	10	15	16	36	37	32	33	33	32	16	24	31	30	13	37	39	26.7	
	(Minimum) 10	20	22	16	4	-15	20	19	14	23	10	30	-10	-16	-12	-3	5	-5	10	26	24	26	29	-8	-13	-4	10	4	-11	13	24	8.5	
Dubuque	(Maximum) 30	33	41	31	23	28	34	29	25	34	38	38	36	2	8	16	14	24	40	41	31	34	34	17	32	27	30	21	41	35	29.1		
	(Minimum) 19	19	27	20	8	4	26	24	22	21	18	36	-7	-10	-5	4	8	4	24	30	28	28	31	3	1	8	20	6	2	20	21	14.8	
Forest City	(Maximum) 26	32	35	30	20	23	34	23	25	38	35	37	21	-4	5	15	11	16	35	38	32	31	32	20	21	18	28	28	18	38	34	25.6	
	(Minimum) 4	15	21	16	8	3	20	17	14	14	14	21	-12	-18	-16	6	2	2	11	16	13	23	15	-6	-10	1	15	4	-10	9	18	7.0	
Independence	(Maximum) 45	33	38	35	24	25	32	31	25	33	34	35	35	4	10	16	16	19	38	38	36	34	34	27	30	30	28	19	40	46	29.8		
	(Minimum) 14	12	25	20	14	1	12	20	15	14	12	32	-3	-11	-6	1	7	10	18	27	29	26	27	1	2	4	15	4	-1	14	19	12.0	
Inwood	(Maximum) 21	33	32	25	24	24	27	24	30	30	38	37	16	-7	6	15	13	22	35	35	33	33	33	17	26	28	29	22	31	40	33	26.0	
	(Minimum) 2	16	22	21	4	7	10	12	12	12	22	16	-8	-15	-14	-12	-3	-5	22	23	12	20	-8	-2	4	9	11	6	-2	21	25	8.3	
Mason City	(Maximum) 27	31	37	33	20	23	30	24	23	35	38	38	21	-6	3	10	10	17	38	35	30	32	32	18	16	22	27	28	16	36	35	25.1	
	(Minimum) 6	18	21	15	6	-4	21	17	13	16	15	21	-13	-17	-13	-5	3	6	15	24	16	24	16	-10	-17	1	11	5	-15	16	22	7.2	
Milford (near)	(Maximum) 15	34	30	28	22	20	27	24	23	37	36	35	16	-2	3	9	12	17	37	36	27	30	32	14	16	21	29	15	23	38	34	23.8	
	(Minimum) -2	14	22	20	4	0	20	13	9	16	6	12	-10	-21	-20	-9	-8	-9	17	20	8	23	10	-9	-9	0	11	-3	-6	16	24	5.1	
New Hampton	(Maximum) 27	31	37	33	20	23	30	24	23	35	38	38	21	-6	3	10	10	17	38	35	30	32	32	18	16	22	27	28	16	36	35	25.1	
	(Minimum) 6	18	21	15	6	-4	21	17	13	16	15	21	-13	-17	-13	-5	3	6	15	24	16	24	16	-10	-17	1	11	5	-15	16	22	7.2	
Northwood	(Maximum) 25	31	36	31	19	23	30	26	26	37	34	37	27	-7	1	6	10	18	37	34	28	30	34	14	15	22	32	28	16	37	30	24.7	
	(Minimum) 4	16	16	14	4	-6	20	15	14	14	14	27	-14	-17	-16	-6	2	2	18	24	21	24	14	-5	-15	-1	10	0	-6	16	22	7.1	
Pocahontas	(Maximum) 35	36	32	31	25	23	30	25	25	38	38	35	17	-2	6	17	15	22	38	37	30	32	32	14	21	27	33	28	23	38	35	27.0	
	(Minimum) 1	17	22	22	7	3	21	18	15	15	9	17	-9	-15	-15	-4	0	-2	21	27	20	25	14	-6	-8	5	12	-3	-9	16	25	8.4	
Postville	(Maximum) 35	31	35	32	18	19	29	29	23	32	33	36	34	-2	5	9	11	17	36	38	32	31	31	32	14	27	29	25	14	40	34	26.1	
	(Minimum) 10	17	20	12	-2	8	17	19	10	18	14	24	-12	-19	-14	-5	2	-6	14	21	20	14	26	-5	-11	0	10	4	-11	9	20	6.8	
Rock Rapids	(Maximum) 26	35	33	25	26	24	28	26	26	37	40	33	15	-2	5	14	15	20	35	35	34	32	33	15	25	28	30	25	28	40	35	26.5	
	(Minimum) -1	16	21	21	5	5	22	12	10	20	9	15	-10	-16	-15	-8	0	-6	20	22	10	20	-1	-2	2	5	10	2	-1	16	27	7.4	
<i>Central Division</i>																																	
Belle Plaine	(Maximum) 35	36	40	33	24	26	35	32	27	37	36	37	35	8	15	21	23	23	40	46	36	31	33	33	21	37	32	30	32	46	37	31.5	
	(Minimum) 19	23	27	23	12	7	20	22	21	22	19	35	-3	-8	-3	4	12	10	22	27	22	28	28	4	0	9	21	9	2	20	25	15.5	
Boone	(Maximum) 40	39	42	34	27	25	33	29	28	37	39	39	23	3	14	22	22	25	44	42	36	32	32	20	28	39	35	31	28	43	39	31.3	
	(Minimum) 9	22	23	24	14	9	24	23	18	18	12	22	4	-7	-3	2	10	4	23	24	20	27	19	3	3	5	14	7	-3	13	28	12.8	
Carroll	(Maximum) 36	37	37	32	25	32	32	27	28	35	38	36	16	-1	8	20	16	25	41	40	33	32	34	14	30	34	32	28	25	40	38	29.1	
	(Minimum) 6	14	24	23	9	-9	22	19	18	20	15	16	-7	-10	-10	0	6	3	22	29	25	25	14	0	0	14	21	2	-3	15	24	11.8	
Cedar Rapids	(Maximum) 38	35	41	34	26	35	33	33	33	37	37	36	3	14	20	22	23	30	42	32	32	33	33	20	32	30	32	28	25	44	37	30.5	
	(Minimum) 19	22	26	24	16	6	26	23	21	30	14	29	3	-8	-3	5	8	22	30	28	25	28	23	5	0	5	19	13	17	25	15.1		
Davenport	(Maximum) 33	36	43	32	26	29	34	32	31	38	41	45	40	7	15	24	22	26	41	45	32	32	35	35	18	38	29	30	24	46	37	32.1	
	(Minimum) 22	22	29	25	12	11	29	27	26	23	39	-1	-5	-2	2	9	11	8	26	31	28	26	30	7	4	12	19	11	5	20	25	17.9	
Des Moines	(Maximum) 26	40	44	34	29	26	34	31	29	37	42	4																					

TOTAL PRECIPITATION, DECEMBER, 1926



SCALE OF SHADES IN INCHES



CLIMATOLOGICAL DATA.

IOWA SECTION

In Co-operation with
IOWA WEATHER AND CROP SERVICE

CHARLES D. REED, Meteorologist

VOL. XXXVII DES MOINES, IOWA, ANNUAL, 1926 No. 13

GENERAL SUMMARY

The mean temperature of the year, 1926, for Iowa, 48.0° is 0.3° above normal. Stations in the north central and eastern portions mostly report deficiencies while those in the western and south central portions report excesses. January, February, May, July and August were warmer than normal and the other months colder. February was exceptionally warm. The growing season averaged 144 days or 12 days less than normal.

Precipitation averaged 33.07 inches, 0.85 inch above normal. It was generally deficient till August. September was the wettest month of any name in 54 years. Large areas were flooded. Drouth was serious in the northwest counties till September. Sunshine was deficient except in April, May and June. Northwest wind was unusually prevalent.

Corn and oats yields were below normal particularly in the northwest counties where this was the third year of drouth. Hay was a poor crop because of the spring drouth. Potatoes made a fair crop and fruit a good crop.

SYNOPSIS BY MONTHS

January was generally mild but with numerous sudden fluctuations in temperature. There were no severe storms but on the 11th and 27th drifted snow interfered with traffic. On the 3d and 4th rain changed to sleet or snow which caused considerable skidding of automobiles and on the 30th-31st there was a glaze storm over the western portion of the State. At Rock Rapids this storm was the worst of its kind in recent years. Outdoor work suffered little interruption. The ice harvest was completed; quality good; thickness satisfactory.

February was unusually mild. Zero weather occurred at only a few stations and the lowest reported, -2°, is the highest minimum in 54 Februaries. Snowfall was light, most of the precipitation occurring in four well distributed rains. Almost daily thawing made dirt and many gravel roads very soft so that they were badly cut up. Outdoor work went forward steadily.

Protracted periods of disagreeable weather prevailed in March. Temperatures were generally below normal though there was a mild period from the 17th to 24th but in this period there was considerable precipitation and wind. There was a notable rain, snow and wind storm on the 5th. Huge snowdrifts interfered with traffic. Passages had to be cut through the drifts. During the latter part of the month several wind storms without precipitation dried the soil rapidly so that on the 24th and 25th dirt storms developed over large areas in the western portion of the State causing the soil to drift and the sun to appear red. The severest storm of the month and winter occurred on the 30th-31st in the south central and eastern districts of the State. Trolley service in the cities was paralyzed and drifts 15 feet deep in the country districts delayed rail traffic and stopped automobile traffic. There was a little plowing and seeding in the northwest portion of the State toward the close of the month, otherwise very little farm work was accomplished and conditions were not favorable for lambs and young pigs. Frost left the ground from the 17th to 24th but the ground froze again toward the end of the month.

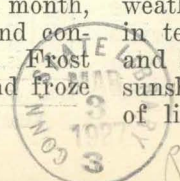
April was the driest of the 54 Aprils of record and the number of days with .01 inch or more precipitation was, also, the least of record. Only twice in 54 years was there less precipitation from January 1 to April 30. Humidity was low and dirt storms frequent from the 13th to 27th. That of the 27th covered practically the entire State and is said to be the worst known. The sun was totally obscured. Ditches along the highways were filled with dirt and drifts as deep as 2 feet across the highways impeded automobile traffic. Grain and other growing vegetation suffered from having the soil blown away from the roots and some fields were covered with drifts. Previous heavy snowfalls delayed farm work in the eastern portion of the State where oats were seeded in the mud. Good progress in farm work was made elsewhere. Corn planting was started and the earlier fields showed rows. Drouth delayed germination of oats and injured meadows and pastures. An unusual aurora occurred during the night of the 14th-15th.

May was warm and as in preceding months the western portion of the State was the warmest; however, frosts on the 14th and 15th damaged tender vegetation including strawberries. Cabbage and tomato plants were destroyed in great numbers. The last killing frost of the spring occurred over the northern two-thirds of the State from May 13th to 15th; in the southern third from April 26th to 28th. The average for the State was May 4, two days later than normal. Drouth became severe over much of the State, causing dust storms that obscured the sun, exposed the roots of plants in places or covered large areas with dirt in other places. Corn planting and germination made good progress but pastures, meadows, and spring grains suffered from the drouth. Fruits bloomed under favorable circumstances.

June was cool except from the 6th to the 12th and the last three days of the month. For the 3d consecutive month temperatures were relatively higher in the western than in the eastern portion of the State. Frost sufficient to blacken the corn and slightly damage beans and tomatoes on the lowlands occurred in scattered localities in the northern portion of the State on the 3d and 27th but there was no permanent damage. The drouth which had prevailed since the first of the year was completely broken during the second week in June. At some stations record heavy rainfalls occurred on the 12th-13th but the rain was mostly absorbed by the thirsty soil. However, there were a few railway washouts. Hailstorms were frequent from the 10th to the 13th, the most severe being in Hancock County. Tornadoes occurred in Page and Ringgold Counties on the 16th and in Pottawattamie County on the 20th. The rains came too late to be of most benefit to hay and small grain and the weather was too cool for the best development of corn, particularly in the south-east portion.

July temperatures averaged above normal but were quite extreme ranging from 109° at Inwood on the 19th and 20th to 38° at Decorah on the 14th. Heat, drouth and hot winds seriously injured corn in northwest Iowa from the 16th to 20th. An unusually destructive hailstorm covered portions of Calhoun and Webster Counties during the night of the 27th. General rains toward the close of the month came too late for corn in the northwest portion of the State.

From an agricultural standpoint generally favorable weather prevailed during August. There was a general excess in temperature; precipitation was somewhat above normal and more evenly distributed over all divisions than usual; sunshine was ample and storms of a destructive nature were of limited extent. A tornado occurred in Plymouth and



Cherokee Counties on the 17th. The soil was in unusually good condition for plowing which progressed satisfactorily. Threshing was delayed by frequent rains. A large acreage of alfalfa was seeded under favorable conditions for germination. Corn which had been backward made good progress in August.

September was not only the wettest September of record in 54 years but exceeded by nearly one inch the amount of precipitation in any month in any year of the 54 years. Herebefore May, 1892, with 8.77 inches, has been the wettest month of record. The previous September record was exceeded by nearly two inches. There were three more rainy days, four more cloudy and three less clear days than in any other September. Temperatures were above normal most of the month but there was a decided change to colder during the last week which brought the average down below normal. Killing frosts were general on the 25th and 27th except in the extreme southeast. Corn was somewhat belated and only 72 per cent escaped frost damage. The average date of first killing frost was September 25, which is 10 days earlier than normal. Corn fields were too soft for machines in cutting for fodder and silage and most of this work had to be done by hand. The soil was too wet for winter wheat seeding which was delayed and much intended acreage was not seeded. Large areas in all but the north central and northeast portions of the State were flooded at different times during the month. It is estimated that the total damage was probably between \$4,000,000 and \$5,000,000.

October averaged slightly colder than normal and as in most of the previous months of the year the temperature was relatively higher in the western than in the eastern portion of the State. Precipitation was considerably below normal. Several local storms occurred at Humboldt on the 1st and near Lake Okoboji during the night of September 30-October 1. After the first week farm work was pushed but corn did not dry rapidly till toward the close of the month and then only a start in husking was made. Plowing was resumed as rapidly as the soil saturated by the September rains became dry enough but there was some bottom land in the southern portion still too wet to plow at the close of the month. Winter wheat seeding continued till near the close of the month. Early seeded wheat was up and in good condition. The September rains made pastures unusually good throughout the fall. Because of the hay shortage and the wet fields in September much corn was cut for fodder and silage after the leaves became dry and dead. A large crop of apples was gathered under favorable conditions.

November was cool and disagreeable—the coldest since 1911; sunshine was decidedly deficient especially in the extreme eastern portion. At Dubuque there were 23 cloudy days, the cloudiest in 50 years. A cold wave spread over the State on the last day of the month in which the temperature fell 50° at a number of stations. Precipitation was generally above normal, most of it occurring on the 13th-14th. There was considerable snow, the heaviest being 12.3 inches at Independence and a number of other stations reported the greatest November snowfall of record. Snow drifts blocked highways for several days. Corn husking was greatly delayed except in the drier western counties. Machine picking was attempted on a larger scale than usual but soft fields interfered.

December averaged colder than normal. Zero or lower was reported in all portions of the State. Precipitation was deficient and unevenly distributed. The greatest snowfall was 24.2 inches at Forest City. Glaze storms were frequent in various portions of the State, being most general on the 4th and 7th, and causing some damage to overhead wires, but the greatest damage was to skidding automobiles. Snow drifts blocked the highways in northern Iowa and interfered with railway traffic on the 7th, 13th and 23d. Ice became thick enough to harvest after the middle of the month.

SUPPLEMENTAL PRECIPITATION TABLE, YEAR 1926

STATIONS	January	February	March	April	May	June	July	August	September	October	November	December	Annual
<i>Northern Division</i>													
Hawarden			1.24	1.97	2.07	1.90	3.70	5.38	13.72	1.96	2.15	0.82	
Lansing								4.05	5.86	2.23	1.76		
Marathon										1.43	1.43	1.56	
Milford (near)					3.53	1.50	5.61						
New Hampton	1.03	0.63	0.46	1.57	2.40	1.05	4.12	3.33					
Osage	0.80	0.61	1.02	1.55	3.57	3.40	4.90	2.71	5.71	0.95			
Waverly	1.18	0.55	1.89	0.90	3.44	2.70		3.65	5.89	1.29	1.70		
<i>Central Division</i>													
Baxter	0.58	0.76	1.49	0.71	1.57	3.51	3.76	4.54	13.88	1.64			
Grundy Center	1.26					2.60	4.31	2.64	11.08	2.29	2.34		
Harlan (near)		0.60	0.20	0.06	0.52	5.48	2.26	2.31	9.16	0.17	3.12	0.88	
Le Claire					1.40	1.85	1.00	4.84	5.54	4.37	10.77	2.64	
Logan	0.37	0.65	0.40	0.59	2.86	1.81	2.38	2.60	8.37		3.16	0.78	
Onawa	1.51	1.10	0.56		2.89	2.70	3.65	4.17	6.55	0.65	3.05	1.04	
Rockwell City	0.75	0.30	0.61	0.25	1.91		4.30	3.80		0.58	2.71	1.28	
<i>Southern Division</i>													
Columbus Jct.	0.93	1.21	1.45	1.12	2.98	8.14		5.71	11.24	1.48	3.27	0.78	
Oakland	1.06		1.25	0.65	2.49	3.68	2.16	4.49	6.50	0.53		1.23	
Red Oak (near)	1.30	0.80	0.59	0.50	4.79	2.81	4.44	2.63	15.34	0.58		1.00	
Riverton (near)				0.31	4.09	4.77	3.59	4.96	12.27	1.25	2.06	0.71	
Wescott (near)	0.85	1.85	2.62	1.80	1.75	9.55	2.45	3.75					

COMPARATIVE DATA FOR THE STATE—Annual

Year	Temperature				Precipitation in Inches				
	Mean annual	Highest	Date	Lowest	Date	Annual	Greatest annual	Least annual	Average snowfall
1873	46.1	102	August 31	-38		33.92	41.04	23.34	
1874	47.7	101	July 5	-24	January 24	30.76	39.76	25.43	
1875	43.3	97	July 16	-31	January 14	36.06	43.42	28.55	
1876	45.9	96	August 24	-28	December 9	36.65	53.57	19.92	
1877	48.4	100		-31	January 8	35.16	49.82	22.52	
1878	50.0	104		-13	January 6	54.53	42.08	20.92	
1879	48.0	102		-35	December 25	28.23	46.71	16.49	
1880	47.9	104		-25	December 27	30.95	51.10	14.80	
1881	47.5	104		-40		44.16	56.31	34.02	
1882	48.4	98		-23	December 7	33.40	50.30	17.71	
1883	44.8	100		-38		34.54	46.15	18.00	
1884	46.0	96		-38		35.59	46.60	23.35	
1885	44.7	102	July 30	-42	January 28	32.23	44.89	17.91	
1886	46.4	103	July 13	-34	February 4	24.71	35.48	15.55	
1887	46.6	105	July 29	-34	January 7	26.31	38.61	12.30	
1888	45.3	110	August 2	-43	January 15	31.44	41.17	20.60	
1889	48.0	104	August 30	-28	February	25.07	37.61	13.66	
1890	47.5	110	July 13	-27	January 22	29.48	45.45	16.54	
1891	47.3	106	August 9	-31	February 4	32.90	49.05	23.48	
1892	46.6	104	July 11	-38	January 19	26.58	48.77	24.78	34.2
1893	45.7	102	July 13	-36	January 14	33.27	33.27	19.19	37.2
1894	49.7	109	July 26	-37	January 25	21.94	29.81	15.65	19.2
1895	47.2	104	May 28	-33	February 1	26.77	35.25	18.57	26.0
1896	48.6	104	July 3	-20	January 4	37.23	51.60	28.68	22.6
1897	47.8	106	July 23	-30	January 25	26.98	36.18	20.21	33.8
1898	47.7	103	August 20	-25	December 31	31.34	55.47	19.51	40.3
1899	47.3	104	September 6	-40	February 11	28.68	42.06	21.79	23.4
1900	49.3	103	August 3	-27	February 15	35.05	47.33	25.05	25.8
1901	49.0	113	July 22	-31	December 15	24.41	37.69	16.35	38.5
1902	47.7	98	July 30	-31	January 27	43.82	58.80	20.14	28.0
1903	47.2	101	August 24	-27	December 13	35.39	50.53	26.41	19.4
1904	46.3	100	July 17	-32	January 27	28.51	38.93	19.34	29.2
1905	47.2	104	August 11	-41	February 2	36.56	52.26	24.66	38.3
1906	48.4	102	July 21	-32	February 2	31.60	44.34	20.63	32.8
1907	47.4	102	July 5	-31	February 5	31.61	43.90	19.93	24.0
1908	49.4	101	August 3	-18	January 29	35.26	49.98	24.11	22.7
1909	47.4	103	August 15	-26	February 15	40.01	53.48	37.20	49.0
1910	48.6	108	July 16	-35	January 7	19.87	27.99	12.11	23.4
1911	49.5	111	July 3	-35	January 3	31.37	46.77	19.74	35.3
1912	46.3	104	September 8	-47	January 12	28.89	33.13	15.25	39.5
1913	49.7	108	July 16	-25	January 8	29.95	45.18	20.31	25.4
1914	49.1	109	July 12	-31	December 26	31.93	44.11	23.30	27.5
1915	47.8	99	May 14	-32	January 28	39.53	51.15	27.29	51.3
1916	47.2	106	August 4	-34	January 13	28.90	46.34	22.48	29.5
1917	44.8	106	July 30	-40	December 29	27.81	36.00	20.78	32.4
1918	49.2	113	August 4	-36	February 4	32.78	47.53	25.03	33.4
1919	48.6	104	July 30	-36	December 10	36.76	48.16	26.88	26.6
1920	48.2	102	July 23	-26	January 4	31.75	44.00	20.95	21.7
1921	52.2	104	July 11	-22	December 25	32.03	46.47	20.44	30.7
1922	50.2	104	June 23	-29	January 6	29.08	44.20	19.08	13.5
1923	49.0	102	July 22	-23	February 3	29.50	37.47	21.36	36.3
1924	46.4	100	August 21	-36	January 5	31.89	43.85	19.41	37.2
1925	48.8	105	July 1	-25	December 29	23.24	45.53	13.77	29.2
1926	48.3	109	July 19	-22	January 28	33.07	48.36	22.35	27.8
M'n	47.6					31.86			30.0

*And other dates.

CLIMATOLOGICAL DATA FOR THE YEAR 1926

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit					Precipitation, in Inches					Number of Days				Prevailing direction of wind		
				Mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall (unmelted)	Precipitation 0.01 inch or more	Clear		Partly cloudy	Cloudy
<i>Northern Division</i>																				
Algona	Kossuth	1,213	53	46.6	104	July 20	-16	Dec. 14	54	31.02	10.36	Sept.	0.58	Jan.	33.1	60	233	57	75	se.
Allison (near)	Butler	1,044	14	46.2	104	July 20	-16	Jan. 28	14	27.84	6.36	Sept.	0.35	Feb.	22.0	83	148	98	119	nw.
Alta	Buena Vista	1,513	35	47.0	101	July 20	-15	Dec. 14	35	31.99	11.57	Sept.	0.45	Feb.	31.7	96	125	152	88	nw.
Alton	Sioux	1,305	21	46.8	105	July 19†	-16	Dec. 15	21	24.40	6.28	Sept.	0.10	Feb.	27.7	83	87	173	105	nw.
Belmond	Wright	1,181	16	46.1	104	July 20	-17	Dec. 14	16	28.41	6.39	Sept.	0.46	Feb.	32.7	93	80	64	221	nw.
Britt	Hancock	1,236	39	45.1	102	July 20	-17	Dec. 14	39	29.38	6.83	May	0.17	Feb.	32.0	68	170	105	90	nw.
Charles City	Floyd	1,015	35	45.1	102	July 20	-15	Jan. 28†	40	26.97	6.07	July	0.58	Feb.	30.1	115	121	115	129	nw.
Cherokee	Cherokee	1,196	4	45.8	100	July 20	-19	Dec. 14	4	33.23	12.90	Sept.	0.16	Feb.	23.0	92	---	---	---	s.
Decorah	Winneshiek	872	33	---	102	July 20	-19	Jan. 28	40	23.05	4.94	Sept.	0.60	Feb.	55.9	92	167	77	121	nw.
Dubuque	Dubuque	700	53	47.1	97	July 20	-13	Jan. 12	73	31.00	5.89	July	0.99	Dec.	44.3	113	79	105	181	nw.
Estherville	Emmet	1,298	31	45.5	104	July 20	-21	Dec. 14	31	23.54	6.38	Sept.	0.31	Feb.	28.5	95	163	137	65	nw.
Fayette	Fayette	1,003	38	45.7	102	July 20	-18	Jan. 12	38	32.22	7.33	Sept.	0.55	Feb.	41.6	93	172	84	109	nw.
Forest City	Winnebago	1,226	32	45.6	103	July 20	-18	Dec. 14	32	29.18	6.07	Sept.	0.43	Feb.	40.3	101	141	101	123	nw.
Hampton	Franklin	1,145	2	45.7	101	July 20	-13	Jan. 28†	2	24.90	7.04	Sept.	0.31	Jan.	17.5	80	---	---	---	sw.
Hawarden	Sioux	1,181	---	---	---	---	---	---	---	---	13.72	Sept.	---	---	---	---	---	---	---	---
Humboldt	Humboldt	1,095	38	47.2	106	July 20	-15	Dec. 14	41	25.08	5.63	Sept.	0.42	Feb.	33.0	67	129	105	131	nw.
Independence	Buchanan	921	62	47.3	102	July 21	-14	Jan. 12	62	32.81	7.37	Sept.	0.51	Jan.	37.5	88	175	49	141	nw.
Inwood	Lyon	1,474	22	46.5	109	July 19†	-20	Jan. 18	22	24.60	6.46	Sept.	0.04	Feb.	23.3	84	198	84	83	nw.
Le Mars	Plymouth	1,224	30	47.7	107	July 19	-17	Dec. 15	38	27.22	6.79	Sept.	0.10	Feb.	22.0	71	220	61	84	sw.
Marathon	Buena Vista	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mason City	Cerro Gordo	1,148	29	45.0	104	July 20	-17	Dec. 14†	29	29.16	6.13	Aug.	0.47	March	40.2	82	109	191	65	nw.
Milford (near)	Dickinson	1,430	6	---	---	---	-21	Dec. 14	6	---	---	---	---	---	---	---	---	---	---	---
New Hampton	Chickasaw	1,169	29	---	---	---	---	---	29	---	---	---	---	---	---	---	---	---	---	---
Nora Springs	Floyd	1,064	14	45.9	102	July 19†	-18	Dec. 14	14	30.82	5.13	May	0.94	Oct.	35.7	127	154	117	94	s.
Northwood	Worth	1,222	30	---	100	July 20	-17	Dec. 14	30	33.35	6.30	Sept.	0.60	Feb.	62.0	102	---	---	---	nw.
Oelwein	Fayette	1,036	3	46.2	100	July 20	-17	Jan. 12	3	36.00	9.80	Sept.	0.32	Dec.	48.0	66	162	70	133	s.
Osage	Mitchell	1,163	36	---	102	July 20	---	---	36	---	5.71	Sept.	---	---	---	---	---	---	---	nw.
Pocahontas	Pocahontas	1,248	22	47.0	104	July 19†	-15	Dec. 14†	22	26.09	7.95	Sept.	0.48	Feb.	33.0	79	---	---	---	nw.
Postville	Clayton	1,192	27	43.1	97	July 20	-22	Jan. 28	27	30.45	7.44	Sept.	0.55	Feb.*	---	89	90	145	130	w.
Rock Rapids	Lyon	1,349	27	46.4	106	July 19†	-16	Dec. 14	27	24.45	6.13	Sept.	0.07	Feb.	37.9	91	202	99	64	sw.
Sanborn	O'Brien	1,553	12	45.7	106	July 20	-18	Dec. 14†	12	32.64	9.84	Sept.	0.08	Feb.	35.3	74	160	91	114	nw.
Sheldon	O'Brien	1,418	14	46.6	106	July 20	-18	Dec. 15	19	26.99	9.52	Sept.	0.08	Feb.	25.6	108	151	128	86	nw.
Sioux Center	Sioux	1,426	27	46.1	106	July 20	-16	Dec. 14	27	36.19	16.12	Sept.	0.19	Feb.	32.1	73	---	---	---	s.
Spencer	Clay	1,319	12	46.4	104	July 20	-20	Dec. 14	12	32.65	9.69	Sept.	0.39	Feb.	36.8	85	141	115	109	nw.
Storm Lake	Buena Vista	1,440	37	47.8	100	July 20	-15	Dec. 14	37	29.04	10.86	Sept.	0.38	Feb.	23.2	90	206	54	105	e.
Washta	Cherokee	1,157	28	47.6	103	July 20	-20	Dec. 14	28	32.19	10.00	Sept.	0.24	Feb.	18.5	75	181	92	92	n.
Waterloo	Black Hawk	854	43	47.7	103	July 20	-15	Jan. 12	44	28.68	8.33	Sept.	0.68	Feb.	24.2	78	190	77	98	nw.
Waverly	Bremer	936	30	---	---	---	---	---	30	---	5.89	Sept.	---	---	---	---	---	---	---	---
West Bend	Palo Alto	1,197	33	46.0	103	July 20	-19	Dec. 14	33	26.19	6.10	Sept.	0.34	Feb.	26.9	69	125	160	80	nw.
<i>Central Division</i>																				
Ames	Story	926	49	49.1	100	July 19	-7	Jan. 22†	50	31.01	12.07	Sept.	0.40	April	17.6	95	158	99	108	nw.
Audubon	Audubon	1,297	31	47.6	99	July 19	-11	Dec. 14	31	32.87	10.35	Sept.	0.63	April	33.3	85	154	139	72	sw.
Baxter	Jasper	998	26	---	100	July 20	---	---	26	---	13.88	Sept.	---	---	---	---	---	---	---	---
Belle Plaine	Benton	866	26	48.5	101	July 20	-12	Jan. 12	36	35.77	11.52	Sept.	0.82	Feb.*	34.6	105	114	131	120	nw.
Boone (near)	Boone	1,134	21	48.5	101	July 20	-12	Jan. 12	21	28.84	11.77	Sept.	0.25	April	14.3	70	---	---	---	nw.
Carroll	Carroll	1,265	36	48.6	102	July 20	-10	Dec. 14†	36	36.79	14.39	Sept.	0.12	Oct.	26.0	75	218	63	84	nw.
Cedar Rapids	Linn	737	44	48.2	100	July 20	-13	Jan. 12	44	29.97	8.26	Sept.	0.70	Jan.*	24.2	92	---	---	---	nw.
Clinton	Clinton	595	53	48.4	97	July 20†	-15	Jan. 22	55	42.54	9.09	Sept.	0.81	Jan.	41.5	107	153	88	124	sw.
Davenport	Scott	580	55	49.4	96	July 20	-9	Jan. 22	55	36.80	8.80	Sept.	0.65	Dec.	36.0	117	96	107	162	nw.
Davenport No. 2	Scott	690	2	49.8	99	July 19	-16	Dec. 14	3	39.82	9.47	Sept.	0.75	Dec.	37.8	118	---	---	---	---
Denison	Crawford	1,171	32	48.7	100	July 20	-11	Dec. 14	32	30.75	10.07	Sept.	0.23	Oct.	22.8	66	141	109	115	nw.
Des Moines	Polk	861	48	50.2	98	July 20	-5	Dec. 14	48	32.85	10.25	Sept.	0.67	Dec.	20.4	103	90	89	186	n.
Fairport	Muscatine	567	5	50.1	95	July 21	-14	Jan. 22	5	39.77	10.21	Sept.	0.43	Dec.	28.9	110	141	50	174	s.
Fort Dodge	Webster	1,114	26	47.0	104	July 20	-15	Dec. 14	26	25.98	6.60	Sept.	0.62	Jan.	29.9	77	181	60	124	s.
Grinnell	Poweshiek	1,031	32	50.2	99	July 20	-10	Jan. 12	32	34.04	12.87	Sept.	0.49	Feb.	16.8	93	108	151	106	nw.
Grundy Center	Grundy	976	35	---	99	July 19	-12	Jan. 28	35	---	11.08	Sept.	---	---	---	---	---	---	---	nw.
Guthrie Center	Guthrie	1,077	31	---	98	Aug. 17	-9	Dec. 14	31	30.70	12.51	Sept.	0.50	April	32.0	80	177	85	103	sw.
Harlan (near)	Shelby	1,132	27	---	100	July 20	-10	Dec. 14	27	---	9.16	Sept.	---	---	---	---	163	129	73	s.
Iowa City	Johnson	733	66	48.8	99	July 20	-10	Jan. 22	66	38.23	10.46	Sept.	0.95	Jan.	23.0	111	129	110	126	nw.
Iowa Falls	Hardin	1,107	33	46.8	99	July 20	-14	Jan. 12	43	25.88	8.14	Sept.	0.70	Feb.	30.9	104	---	---	---	nw.
Jefferson	Greene	1,052	27	47.9	100	July 20	-10	Dec. 14	27	31.41	12.17	Sept.	0.56	April	18.5	72	142	89	134	sw.
Little Sioux	Harrison	1,040	21	50.4	105	June 28	-12	Dec. 14	21	28.03	6.23	June	0.11	Oct.	19.6	93	---	---	---	nw.
Logan	Harrison	1,035	59	---	102	July 20	-8	Dec. 14†	59	---	8.37	Sept.	0.37	Jan.	27.0	---	---	---	---	sw.
Maquoketa	Jackson	692	21	48.0	97	July 19	-15	Jan. 12	21	34.43	7.21	Sept.	0.50	Dec.	33.4	102	---	---	---	nw.
Marshalltown	Marshall	947	34	48.5	100	July 20</														

CLIMATOLOGICAL DATA FOR THE YEAR 1926—Continued

STATIONS	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit						Precipitation, in Inches						Number of Days				Prevailing direction of wind
				Mean	Highest	Date	Lowest	Date	Length of record, years	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall (unmelted)	Precipitation 0.01 inch or more	Clear	Partly cloudy	Cloudy	
<i>Southern Division</i>																				
Afton	Union	1,212	32	50.5	101	July 20†	-12	Jan. 22	32	33.89	10.06	Sept.	0.69	April	16.5	95				sw.
Albia	Monroe	959	28	50.4	99	Aug. 9	-12	Jan. 22	23	37.89	11.53	Sept.	0.81	April	24.5	112	142	70	153	nw.
Atlantic	Cass	1,164	35	49.9	102	July 20	-7	Jan. 22	35	27.03	7.93	Sept.	0.44	Oct.	43.5	116				nw.
Bonaparte (near)	Van Buren	563	35	50.1	94	July 20	-12	Jan. 22	35	36.98	10.57	Sept.	0.56	Dec.		90	179	72	114	w.
Burlington	Des Moines	544	30	51.3	98	July 2	-9	Jan. 22	30	46.48	14.30	Sept.	1.21	Dec.	33.5	121	160	73	132	nw.
Centerville	Appanoose	1,013	21		100	Aug. 9	-10	Jan. 22	21	37.33	12.61	Sept.	0.69	Dec.	24.7	108	137	86	142	nw.
Chariton (near)	Lucas	1,042	31		101	Aug. 9	-13	Jan. 22	31	37.34	13.63	Sept.	0.23	Dec.	11.0	62	138	129	98	nw.
Clarinda	Page	1,009	36	50.9	98	Aug. 9	-11	Jan. 22	36	42.25	17.07	Sept.	0.38	April	13.5	110	133	130	52	sw.
Columbus Jct.	Louis	595	25					Jan. 22	25		11.24	Sept.	0.73	Dec.	23.8					sw.
Corning (near)	Adams	1,117	34	50.1	100	Aug. 9	-12	Jan. 22	34	33.42	10.21	Sept.	0.54	Feb.	6.5	56	216	59	90	nw.
Corydon	Wayne	1,101	33		100	Aug. 9	-13	Jan. 22	33	48.36	18.57	Sept.	0.61	Feb.	12.0	78				s.
Creston	Union	1,312	21	49.5	98	July 29	-15	Jan. 22	21	35.19	9.56	Sept.	0.40	Dec.		104	133	83	99	nw.
Cumberland (near)	Cass	1,225	26					Jan. 22	26	22.35	7.53	Sept.	0.38	April	15.2	67	139	106	120	nw.
Earlham (near)	Madison	1,126	24	49.5	98	July 20	-11	Jan. 22	24	26.73	8.12	Sept.	0.39	April	27.0	82	193	54	113	nw.
Fairfield	Jefferson	780	42	49.4	98	July 20	-12	Jan. 22	44	38.79	12.66	Sept.	0.47	Dec.	27.2	99	141	63	161	n.
Glenwood	Mills	1,100	28	51.3	102	July 19†	-11	Jan. 12	32	33.33	10.39	Sept.	0.32	April	16.8	79	136	145	84	nw.
Indianola	Warren	972	35	50.1	98	July 20	-11	Jan. 22	35	28.44	6.97	Sept.	0.35	April	27.6	89	144	133	88	nw.
Keokuk	Lee	614	55	51.5	96	July 2	-6	Jan. 22	55	43.34	12.56	Sept.	1.03	Jan.	43.1	117	97	110	153	nw.
Keosauqua	Van Buren	644	34	49.2	96	July 20	-11	Jan. 22	34	41.86	9.55	Sept.	0.77	Dec.	25.8	95	117	110	138	se.
Knoxville	Marion	920	31	50.0	99	Aug. 9	-13	Jan. 22	31	36.25	10.43	Sept.	0.78	Dec.	21.5	85	141	87	137	nw.
Lacona	Warren	824	27						27	40.26	12.09	June	0.78	Feb.	33.7	106	118	150	97	
Lamoni	Decatur	1,123	19	50.1	101	Aug. 9	-13	Jan. 22	20	43.05	14.64	Sept.	0.47	Dec.	17.0	100	162	92	111	ne.
Lenox	Taylor	1,250	31	50.5	103	Aug. 9	-13	Jan. 22	31	35.34	12.59	Sept.	0.45	Feb.	15.0	105	169	116	80	nw.
Mount Ayr	Ringgold	1,245	33	49.8	98	Aug. 9	-13	Jan. 22	33	40.37	14.44	Sept.	0.62	Feb.	11.7	98	179	73	113	n.
Mt. Pleasant	Henry	730	45	50.6	96	July 20	-10	Jan. 22	45	42.80	11.44	Sept.	0.65	Dec.	17.0	99	109	134	122	nw.
Oakland	Pottawattamie	1,105	7	49.8	101	July 20	-9	Jan. 22	7		6.50	Sept.			24.7					n.
Oskaloosa	Mahaska	835	50	49.4	97	July 20	-14	Jan. 22	50	36.21	10.44	Sept.	0.87	April	39.5	109	117	101	147	nw.
Ottumwa	Wapello	649	31	51.9	96	July 1†	-11	Jan. 22	32	33.88	12.93	Sept.	0.81	Dec.	10.6	99	151	95	119	nw.
Red Oak (near)	Montgomery	1,030							13		15.34	Sept.	0.50	April						nw.
Revokton (near)	Fremont	920									12.27	Sept.								
Sigourney (near)	Keokuk	790	30	49.4	96	May 26	-15	Jan. 22	30	40.34	9.66	Sept.	0.86	Dec.	23.8	83	162	58	145	nw.
Stockport	Van Buren	747	24	49.7	96	July 20	-12	Jan. 22	24	41.37	10.36	Sept.	0.83	Dec.	27.0	109	153	76	131	s.
Thurman	Fremont	960	29	52.1	102	Aug. 27	-18	Jan. 22	35	30.64	8.36	Sept.	0.23	April	16.2	77	89	197	79	sw.
Tingley	Ringgold	1,275	1	50.0	97	Aug. 5	-10	Jan. 22	1	39.87	14.31	Sept.	0.54	April	8.6	86				nw.
Washington	Washington	757	44	49.7	98	July 20	-13	Jan. 22	47	44.35	12.78	Sept.	1.00	Dec.	31.0	101	131	106	128	nw.
Wescott (near)	Lee	523	4						4											
Winterset	Madison	1,118	35	50.4	98	July 20	-12	Jan. 22	35	26.05	7.16	Sept.	0.39	April	24.5	73	204	76	85	sw.
Omaha, Neb.		1,105	55	51.6	102	July 19	-6	Dec. 14	55	25.96	8.85	Sept.	0.23	Oct.	25.8	92	144	123	98	nw.

Reference letters a, b, c, etc., appearing in the table indicate the number of days missing; for example b represents two days, etc.
 *Also in another month. †Also on other dates.

MONTHLY STATE DATA FOR 1926

MONTH	Barometric Pressure Inches (Sea Level)					Temperature Degrees, F.				-Relative Humidity Per Cent				Precipitation, Inches				No. of Days			Sunshine		Wind					
	Mean	Highest	Date	Lowest	Date	Mean	Departure from normal	Highest	Lowest	7 a. m.*	12 noon†	7 p. m.*	Departure from normal	Lowest	Average	Departure from normal	Greatest	Least	Snowfall	With .01 inch or more precipitation	Clear	Partly cloudy	Cloudy	Per cent of the possible amount	Departure from normal	Average hourly velocity	Departure from normal	Prevailing direction
January	30.06	30.79	22	29.51	14	22.7	+4.2	58	-22	85	71	76	-1	35	1.09	+0.01	2.68	0.31	5.0	7	11	3	12	47	-3	8.4	-0.3	nw.
February	29.98	30.35	23	29.17	25	31.2	+8.6	67	-2	83	68	72	-3	33	0.78	-0.44	2.13	0.04	3.3	4	10	11	49	-6	9.0	-0.3	nw.	
March	30.09	30.59	12	29.25	24	32.1	-2.6	78	-4	79	60	62	-3	23	1.01	-0.69	2.62	0.20	3.1	6	12	9	10	53	-10	10.2	+0.6	nw.
April	30.05	30.49	19	29.41	24	46.1	-2.8	95	9	63	43	46	-10	10	0.91	-2.08	2.29	0.06	1.5	4	16	7	7	67	+10	8.9	-1.0	sw.
May	29.88	30.33	8	29.39	20	64.5	+4.3	97	25	69	45	47	-10	15	2.76	-1.85	6.33	0.52	0	9	15	11	5	63	+7	9.0	+0.3	s.
June	29.91	30.32	13	29.45	6	66.2	-3.1	105	32	70	47	50	-10	13	4.52	-0.01	12.09	1.05	0	8	16	9	5	73	+2	7.9	+0.3	sw.
July	29.92	30.23	25	29.29	9	74.8	+1.0	109	88	76	54	55	-2	17	3.72	-0.13	9.08	0.82	0	10	15	10	6	63	+2	7.1	+0.4	sw.
August	29.97	30.30	7	29.60	20	73.5	+1.3	103	47	84	58	64	-2	24	3.30	+0.36	7.33	1.04	0	10	16	10	5	67	-1	5.9	-0.4	se.
September	30.01	30.67	25	29.45	30	63.0	-1.3	92	18	87	69	75	+3	27	9.76	+6.11	13.57	4.75	0	14	8	7	15	-21	7.5	+0.3	se.	
October	29.95	30.36	29	29.39	4	51.2	-0.7	91	14	80	56	63	0	20	1.53	-0.89	3.91	0.11	0	7	13	9	43	-13	7.1	-1.0	nw.	
November	30.01	30.61	10	29.25	26	32.6	-4.0	71	-3	81	67	73	+2	26	2.10	+0.54	3.88	0.68	4.2	7	8	7	15	35	-17	10.0	+1.8	nw.
December	30.13	30.70	18	29.15	12	21.9	-2.2	58	-21	85	74	80	+2	23	1.06	-0.08	1.50	0.23	5.7	4	10	7	14	37	-10	8.1	0	nw.
Means and extremes	30.00	30.79	Jan. 22	29.15	Dec. 12	43.3	+0.3	109	-22	79	59	64	-2	10	33.07	+0.85	18.57	0.04	27.8	90	150	101	114	54	-5	8.3	+0.1	nw.
Normals and records	30.02	31.09	Jan. 25	28.69	Feb. 28	45.0				81		66		5	32.22		19.80	0.00	30.7	85	166	101	98	59		8.2		nw.

†Local mean time.
 *Normal central time.
 † 7 a. m. and 7 p. m. observations only.

MEAN MONTHLY AND ANNUAL TEMPERATURES, WITH DEPARTURES FROM THE NORMAL, FOR 1926

Table with columns for months (January to December) and Annual, and rows for various stations (Northern, Central, Southern Divisions). Each cell contains temperature and departure values.

Reference letters a, b, c, etc., appearing in the table indicate the number of days missing; for example, b represents two days, etc.

MONTHLY AND ANNUAL PRECIPITATION WITH DEPARTURES FROM THE NORMAL, FOR 1926

Table with columns for months (January-December) and Annual, each with sub-columns for Precipitation and Departure. Rows are categorized by Northern Division, Central Division, and Southern Division, listing various Iowa cities and their precipitation data for 1926.

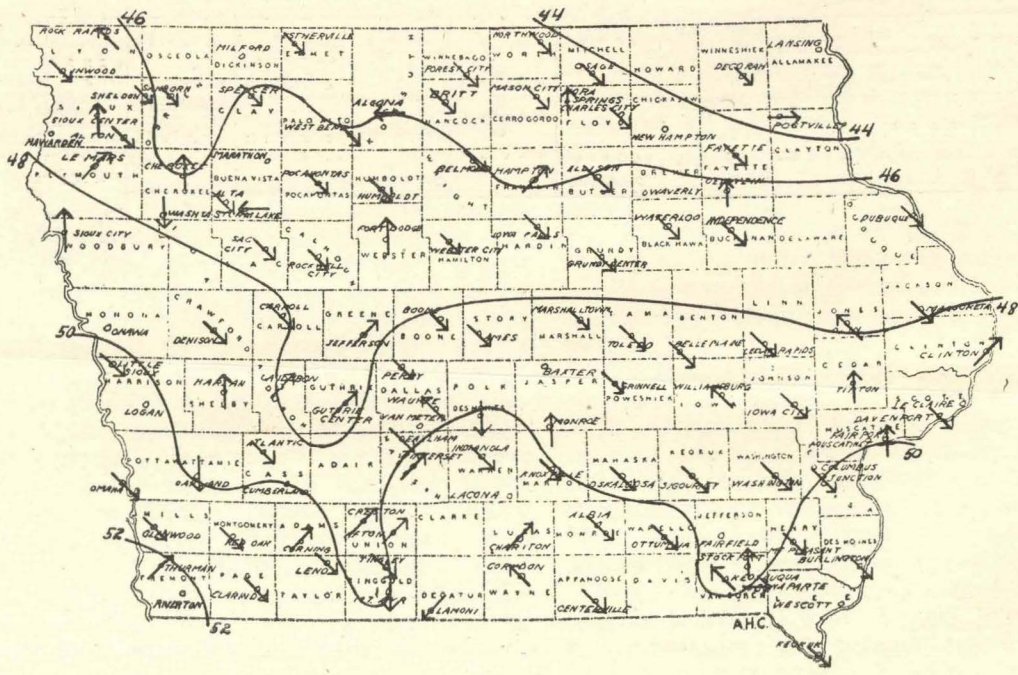
DATES OF KILLING FROSTS, 1926

Charles City, Davenport, Des Moines, Dubuque, Keokuk, Sioux City, Omaha, and Marshalltown excluded from averages because of city influences

Table with 12 columns: STATIONS, Last in Spring, First in Autumn, Days in Growing Season, STATIONS, Last in Spring, First in Autumn, Days in Growing Season, STATIONS, Last in Spring, First in Autumn, Days in Growing Season. Rows are categorized by district: Northwest, West Central, Southwest, North Central, Central, South Central, Northeast, East Central, Southeast.

†Date of last temperature of 32° or lower in the spring, or first temperature of 32° or lower in the autumn (as the case may be) when frost was not reported.

MEAN ISOTHERMS AND PREVAILING WINDS, YEAR, 1926



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