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. XXXVI DES MOINES, IOWA, JANUARY, 1925 No. 1

GENERAL SUMMARY

Compared to the month preceding, January would be considered a very mild month, and while the mean temperature for the State was less than one degree above normal, the absence of disagreeable features made the month appear more mild than the mean temperature indicates. There were numerous fluctuations above and below normal but there were no decided departures. While the mean for the State averaged above normal there was a general deficiency over most of the Missouri and Big Sioux valleys, which amounted to more than two degrees in several counties in the northwest portion. The most pronounced periods of excess occurred from the 2nd till the 9th and another during most of the 3d week, being the most marked in the central and eastern portions, while in the western half of the State, where the coldest weather prevailed, there was a period with below normal temperatures that extended from the 9th till the 18th.

The month was characterized by the entire absence of severe storms and the precipitation, which was almost entirely in the form of sleet or snow, has been less in January only three times since 1890. There were no individual heavy falls of snow, except over a limited area in the western portion of the State on the 28th. There was practically no drifting and as a result of these favorable conditions railway traffic was able to move normally throughout the month, and highways continued passable though dirt roads in the southern and central sections were quite rough following periods of thawing weather. Sleet was reported from numerous places on several dates but there was apparently no damage from this source. The snow cover remained on the ground over nearly all the northern division throughout the entire month but large areas in the central and southern sections were bare at the end of the month, and were bare over much of the area during the last 10 days, but there had been no material damage reported to winter wheat or grasses.

Some building operations were halted during the most severe weather, but the usual winter out door occupations were pursued with very little interruption. Some corn that remained in the fields was gathered in the southern portion and there was still some corn standing in the northwest portion. The ice harvest was completed in all portions of the State, the quality being unusually good and the quantity ample.

F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 104 stations, was 19.4°, or 0.9° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 15.8°, or 0.5° higher than the normal; Central, 20.0°, or 1.2° higher than the normal; Southern, 22.5°, or 1.1° higher than the normal. The highest monthly mean was 25.4°, at Keokuk, and the lowest was 11.8° at Inwood. The highest temperature reported was 55°, at Wescott, on the 24th, and the lowest was —24°, at Milford, on the 27th. The temperature range for the State was 79°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 107 stations, was 0.40 inch, or 0.68 inch less than the normal. By divisions, the averages were as follows: Northern, 0.42 inch, or 0.52 inch less than the normal; Central, 0.35 inch, or 0.77 inch less than the normal; Southern, 0.43 inch, or 0.74 inch less than the normal. The greatest amount, 1.23 inches occurred at Burlington, and the least, 0.05 inch, occurred at Grundy Center. The greatest amount in any 24 consecutive hours, 0.60 inch, occurred at Williamsburg, on the 16th.

SNOWFALL

The average snowfall for the State 4.2 inches, or 2.7 inches less than the normal. The greatest amount, 10.0 inches occurred at Burlington and Washington, and the least, 0.2 inch occurred at Pella. The ground was covered the entire month north of a line running from Monona to Allamakee Counties and over a few small areas in the southern and east-central portions. The snowfall was above normal over most of the Missouri Valley and a small area in the southeast section.

MISCELLANEOUS PHENOMENA

Fog: 8th, 9th, 10th, 11th, 12th, 14th, 16th, 18th, 19th, 20th, 21st, 24th, 25th, 28th, 29th, 30th.

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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
1890	19.7	+1.2	61	—27	2.03	+0.95	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	0.15	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	0.04	6.2	4	14	9	8
1902	22.4	+3.9	63	—31	0.88	—0.20	2.83	0.19	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	0.02	6.1	6	12	8	11
1905	11.2	—7.3	56	—30	0.91	—0.17	1.82	0.12	11.1	7	14	7	10
1906	24.6	+6.1	69	—19	1.52	+0.44	4.71	0.28	11.3	5	14	6	11
1907	18.8	+0.3	68	—22	1.52	+0.44	5.30	0.10	6.0	7	8	7	16
1908	24.9	+6.4	60	—18	0.44	—0.64	1.50	0.06	4.8	2	17	8	6
1909	21.2	+2.7	72	—25	1.66	+0.58	3.74	0.41	7.8	6	9	6	16
1910	18.1	—0.4	56	—35	1.57	+0.49	3.15	0.55	12.6	6	13	7	11
1911	20.2	+1.7	66	—35	0.97	—0.11	3.73	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	0.04	7.2	5	14	9	8
1914	27.8	+9.3	64	—10	0.88	—0.20	2.34	0.27	5.1	5	11	8	12
1915	17.5	—1.0	59	—32	1.63	+0.55	3.15	0.10	7.3	8	13	8	10
1916	17.8	—0.7	63	—34	2.62	+1.54	6.07	0.85	7.2	10	12	6	13
1917	17.0	—1.5	60	—28	0.83	—0.25	2.07	0.17	7.2	4	17	8	6
1918	8.6	—9.9	53	—35	1.02	—0.06	2.79	0.26	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	0.10	4.1	4	11	7	13
1922	19.8	+1.3	57	—29	0.89	—0.19	2.30	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	0.06	5.5	5	17	7	7
1925	19.4	+0.9	55	—24	0.40	—0.68	1.23	0.05	4.2	3	17	7	7

T. indicates an amount too small to measure, or less than .005 inch precipitation and less than .05 inch snowfall.
*New normals effective June 1, 1924.

Climatological Data for January, 1925

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	52	16.0	+ 0.6	39	6	—18	27	35	0.60	—0.22	0.24	7.5	4	18	3	10	nw.	W. E. Laird
Allison (near)	Butler	1,044	13	18.5	+ 3.2	40	21†	—12	14†	36	0.10	—1.10	0.10	1.0	1	19	4	8	sw.	J. A. Bell
Alta	Buena Vista	1,513	34	14.5	— 1.5	37	24†	—17	27	37	0.41	—0.35	0.18	3.8	6	17	6	8	w.	D. E. Hadden
Alton	Sioux	1,305	20	13.4	— 2.1	38	31	—17	27	35	0.70	—0.06	0.30	7.0	4	11	11	9	sw.	W. S. Slagle
Belmond	Wright	1,205	15	15.6	+ 0.9	39	24	—15	27	37	0.57	—0.69	0.27	5.7	8	4	21	6	w.	Geo. P. Hardwick
Britt	Hancock	1,236	38	17.2	+ 3.0	38	24	—18	27	38	0.39	—0.29	0.39	5.0	1	16	9	6	nw.	Jas. S. Ross
Charles City	Floyd	1,015	34	16.8	+ 3.1	39	24	—16	14	35	0.10	—0.93	0.08	1.6	3	11	13	7	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	13.8	------	40	31	—19	27	41	0.57	------	0.25	5.7	6	10	14	7	s.	J. E. Wirth
Decorah	Winneshiek	875	32	14.8	— 0.4	37	31	—20	14	36	0.20	—1.04	0.20	2.0	1	19	6	6	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	21.6	+ 2.5	46	31	— 6	27	33	0.11	—1.45	0.07	1.2	3	8	13	10	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	14.4	+ 1.3	40	21	—21	27	33	0.45	—0.13	0.15	4.5	5	10	16	5	s.	A. O. Peterson
Fayette	Fayette	1,003	35	18.2	+ 2.8	39	21†	—17	14	37	0.15	—1.10	0.13	1.5	2	16	5	10	sw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	16.2	+ 1.9	38	24	—15	27	40	0.40	—0.48	0.20	4.0	3	7	6	18	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	15.8	— 0.1	39	22†	—11	27	37	0.11	—1.10	0.06	1.2	3	15	11	5	sw.	L. H. Davis
Humboldt	Humboldt	1,095	37	15.8	— 0.7	39	6†	—19	14	36	0.48	—0.33	0.22	6.5	4	9	9	13	n.	H. C. Snitkey
Independence	Buchanan	921	61	20.4	+ 3.5	43	31	—10	27	34	0.18	—0.99	0.14	1.8	2	22	1	8	sw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	11.8	— 2.2	37	21†	—20	27	32	0.68	+0.03	0.28	6.8	7	18	4	9	nw.	A. C. Hanson.
Le Mars	Plymouth	1,224	29	14.8	— 2.3	39	31	—16	27	35	0.35	—0.22	0.19	4.0	4	18	5	8	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	15.8	+ 1.6	39	24	—15	14	35	0.23	—0.74	0.16	3.0	3	19	4	8	nw.	Northern Sugar Corp.
Milford (near)	Dickinson	1,430	5	12.1	------	35	19†	—24	27	38	0.83	------	0.40	8.3	3	19	7	5	s.	S. N. McKinsey.
New Hampton	Chickasaw	1,169	28	16.8	+ 2.3	37	21†	—13	27	30	0.15	—0.83	0.10	1.5	2	17	5	9	nw.	A. F. Kemman
Nora Springs	Floyd	1,064	13	18.0	+ 1.6	41	24	—16	14†	40	0.50	—0.60	0.15	2.9	6	16	9	6	s.	Arthur Betts
Northwood	Worth	1,222	29	14.6	+ 1.9	38	24	—15[a]	27	37[a]	0.25	—0.89	0.10	2.5	4	16	2	13	sw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	19.3	------	40	21	—10	14	33	------	------	------	------	----	15	10	6	sw.	John T. Ridler
Osage	Mitchell	1,163	----	15.8	------	40	24	—15	14†	39	0.37	------	0.15	3.7	5	14	9	8	s.	W. G. Mee.
Pocahontas	Pocahontas	1,248	21	15.1	— 0.9	38	19†	—19	27	38	0.45	—0.33	0.25	4.8	5	18	4	9	se.	F. E. Hronek
Postville	Clayton	1,180	26	16.8	+ 1.6	37	31	—15	27	38	0.15	—1.08	0.10	1.5	2	16	5	10	nw.	F. L. Williams
Rock Rapids	Lyon	1,358	26	12.7	— 0.8	37	31	—21	14†	35	0.84	+0.15	0.32	8.4	6	16	5	10	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	12.6	— 2.0	37	6†	—20	26	53	0.42	—0.28	0.20	3.8	5	19	5	7	sw.	J. W. Dow
Sioux Center	Sioux	1,426	26	13.2	— 1.9	39	21	—20	27	38	0.80	+0.06	0.30	8.0	6	19	2	10	s.	J. de Ruyter
Spencer	Clay	1,319	11	12.6	— 1.9	40	31	—22	27	40	1.06	+0.36	0.50	7.0	6	20	5	6	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	16.0	— 0.8	39	30	—16	27	41	0.40	—0.30	0.18	4.5	3	22	0	9	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	15.8	— 0.8	40	4	—14	26†	36	0.58	—0.03	0.45	6.5	3	19	7	5	ne.	H. L. Felter
Waterloo	Black Hawk	854	42	21.0	+ 3.6	44	24	—11	27	34	0.08	—1.04	0.03	0.8	4	21	3	7	se.	R. B. Slippy
Waverly	Bremer	936	29	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	D. H. Murphy
West Bend	Palo Alto	1,197	32	14.2	— 0.8	41	24	—22	27	37	0.54	—0.41	0.26	6.3	8	11	10	10	s.	Jos. Dorweiler
Means and extremes		------	----	15.8	+ 0.5	46	31	—24	27	53	0.42	—0.5	0.50	4.2	4	16	7	8	sw.	
Central Division																				
Ames	Story	926	48	20.5	+ 2.0	44	24	—10	27	39	0.16	—0.74	0.10	1.6	3	15	9	7	nw.	Iowa State College
Audubon	Audubon	1,297	30	18.2	+ 1.1	46	24	—16	27	41	0.68	—0.15	0.48	8.5	3	15	11	5	sw.	Geo. Kibby
Baxter	Jasper	998	25	20.6	+ 1.2	42	24	—10	27	37	0.08	—0.82	0.08	1.0	1	13	14	4	s.	Henry Geise
Belle Plaine	Benton	866	35	21.2	+ 2.4	45	24	— 9	27	33	0.27	—1.29	0.15	3.6	3	11	11	9	se.	O. C. Burrows
Boone	Boone	1,134	20	20.2	+ 2.3	47	24	—14	27	38	0.17	—0.67	0.08	1.5	4	19	5	7	n.	C. F. Henning
Carroll	Carroll	1,265	35	19.0	+ 1.6	42	6†	—15	27	37	0.48	—0.30	0.21	4.0	3	23	2	6	sw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	21.2	+ 1.3	48	31	— 9	27	40	0.08	—1.32	0.08	1.0	1	15	4	12	se.	J. T. Wurster
Clinton	Clinton	595	52	21.6	+ 1.0	49	31	— 8	14	34	0.19	—1.63	0.11	2.0	3	16	5	10	w.	Dr. A. P. Bryant
Davenport	Scott	580	54	22.4	+ 0.6	45	31	— 4	27	34	0.40	—1.15	0.17	3.4	3	8	10	13	w.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	22.5	------	46	31	— 5	27	32	0.38	------	0.15	4.4	5	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	18.0	— 0.2	40	6†	—13	27	40	0.42	—0.24	0.35	6.0	3	10	15	6	s.	V. L. Byers
Des Moines	Polk	861	47	22.3	+ 2.2	45	24	— 7	27	36	0.23	—0.90	0.12	2.5	2	11	12	8	n.	U. S. Weather Bureau
Fairport	Muscatine	567	4	22.4	------	45	31	— 6	17	31	0.48	------	0.28	5.3	4	12	4	15	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	16.8	+ 0.1	40	24	—19	14†	43	0.47	—0.37	0.18	6.5	4	21	3	7	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	21.7	+ 1.5	43	24	—10	27	36	0.17	—0.98	0.07	2.0	3	12	15	4	s.	Paul P. Meyers
Grundy Center	Grundy	976	34	22.2	+ 3.7	48	22	—12	27	37	0.05	—0.92	0.05	0.5	1	20	4	7	n.	W. D. Callaway.
Guthrie Center	Guthrie	1,077	30	20.8	+ 3.1	47	24	—15	27	41	0.62	—0.16	0.32	8.0	4	21	5	5	se.	E. L. Nesselroad
Harlan	Shelby	1,192	26	19.0	+ 0.9	43	24	—11	27	36	0.48	—0.32	0.48	6.0	1	26	0	5	s.	W. K. Colburn
Iowa City	Johnson	733	65	21.0	+ 1.0	45	31	— 8	17	32	0.29	—1.35	0.26	3.5	2	11	11	9	s.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	18.6	+ 2.9	40	21†	—11	14	37	0.24	—1.00	0.20	2.4	3	14	8	9	nw.	J. B. Parmelee
Jefferson	Greene	1,052	26	18.7	+ 0.6	41	6†	—14	27	39	0.65	—0.21	0.25	7.0	4	18	4	9	nw.	W. I. Lyon
Little Sioux	Harrison	1,040	20	19.4	+ 0.1	44	6	—11	26	42	0.59	—0.16	0.45	5.9	3	17	7	7	s.	H. W. Kerr
Logan	Harrison	1,035	58	19.8	— 0.5	45	24	— 9	27	43	0.48	—0.52	0.48	6.0	1	17	5	9	nw.	Mary Jean Stern
Marshalltown	Marshall	947	33	21.2	+ 1.2	46	24	— 9	27	36	0.15	—1.02	0.09	2.6	3	17	6	8	nw.	C. C. Pigman
Monroe	Jasper	922	13	21.6	+ 0.9	44	24	— 9	27	35	0.17	—0.93	0.17	3.2	1	16	4	11	s.	J. A. Dibel
Olin	Jones	760	26	20.4	+ 2.2	45	31	—14	18	38	0.35	—1.08	0.20	3.5	3	14	9	8	nw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	18.0	— 0.8	42	31	—11	27	39	0.50	—0.49	0.40	6.0	2	18	3	10	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	21.6	+ 2.6	48	24	—11	27	42	0.22	—0.80	0.06	3.5	4	21	6	4	nw.	Eugene N. Hastie.
Rockwell City	Calhoun	1,134	29	16.8	— 0.5	41	19	—16	27	36	0.50	—0.50	0.40	5.0	2	14	7	10	nw.	A. W. McIsaac
Sac City	Sac	1,278	49	16.8	— 0.4	40	6	—17	27	36	0.45	—0.56	0.25	4.5	2	13	11	7	s.	F. P. Kessler
Sioux City	Woodbury	1,135	36	17.5	— 0.3	44	21	—11	27	41	0.66	+0.01	0.45	7.5	6	12	9	10	s.	U. S. Weather Bureau
Tipton	Cedar	807	26	19.0	— 0.7	42	31	— 7	17	28	0.17	—1.28	0.10	1.9	3	9	13	9	nw.	Chas. H. Obye
Toledo	Tama	856	31	20.5	+ 1.2	47	24	—12	27	36	0.17	—0.93	0.08	2.0	3	17	7	7	se.	I. F. Giger
Waukee	Dallas	1,039	22	21.0	+ 2.2	42	6†	—11	27	36	0.44	—0.71	0.20	4.3	4	20	6	5	nw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	17.3	— 0.1	41	24	—14	14†	41	0.16	—0.90	0.16	2.0	1	15	6	10	sw.	Frank A. Bonebright
Williamsburg	Iowa	765	9	19.6	+ 0.4	43	24†	—11	17	40	0.60	—0.80	0.60	3.0	1	18	8	5	nw.	Dr. F. C. Schadt
Means and extremes		------	----	20.0	+ 1.2	49	31	—19	14†	43	0.35	—0.77	0.60	3.9	3	16	7	8	nw.	

Climatological Data for January, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	22.7	+ 1.6	50	25	—11	27	40	0.30	—0.56	0.20	3.0	2	16	10	5	sw.	S. R. Brown
Albia	Monroe	959	27	23.4	+ 2.5	50	25	— 8	27	33	0.27	—0.92	0.13	2.9	3	19	6	6	ne.	O. E. McBride
Atlantic	Cass	1,164	34	19.6	+ 0.3	43	6	—11	17†	40	0.51	—0.33	0.20	6.7	5	20	6	5	sw.	Mrs. Minnie Cunningham
Bonaparte	Van Buren	563	34	22.5	+ 0.3	49	24	— 6	13	33	0.31	—1.23	0.21	3.0	2	21	4	6	sw.	B. R. Vale
Burlington	Des Moines	544	29	24.3	+ 0.1	47	31	— 4	27	30	1.23	—0.53	0.50	10.0	3	23	2	6	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	23.8	+ 1.2	51	25	— 7	27	34	0.17	—1.08	0.11	1.8	3	18	6	7	sw.	Thomas Wood
Chariton	Lucas	1,042	30	23.0	+ 2.0	49	25	— 8	17†	36	0.11	—0.96	0.11	1.0	1	15	10	6	sw.	C. C. Burr
Clarinda	Page	1,009	35	21.6	— 0.8	47	24	— 8	27	39	0.50	—0.46	0.20	5.0	3	18	12	1	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	J. Carson Duncan.
Corning	Adams	1,117	33	22.9	+ 1.9	50	25	—13	17	49	0.35	—0.57	0.20	3.5	2	23	5	3	ne.	Jerome Smith
Corydon	Wayne	1,101	32	23.0	+ 1.1	48	25	— 8	27	41	0.12	—1.15	0.12	1.0	1	13	13	5	e.	Mrs. May Miller King
Creston	Union	1,312	20	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	J. W. Goodsell.
Cumberland (near)	Cass	1,225	26	------	------	------	------	------	------	------	0.26	—0.51	0.22	3.5	3	15	10	6	sw.	Carl E. Pollock
Earlham	Madison	1,126	23	19.6	+ 0.4	43	25	—13	17	41	0.55	—0.63	0.20	5.5	4	25	2	4	nw.	Geo. Phillips
Fairfield	Jefferson	780	41	21.7	+ 0.1	46	31	— 6	27	37	0.47	—1.05	0.20	4.5	3	18	2	11	nw.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	21.8	— 0.1	48	24	—10	17	40	0.78	+0.07	0.35	7.8	4	10	15	6	nw.	Dr. Geo. Mogridge
Indianola	Warren	972	34	22.2	+ 2.5	47	24	— 9	27	35	0.36	—0.79	0.21	3.6	2	17	10	4	nw.	Seth F. Shenton
Keokuk	Lee	614	54	25.4	+ 0.5	52	25	— 2	27	29	0.35	—1.34	0.15	5.6	4	12	11	8	e.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	22.2	+ 0.2	48	25	— 9	13	42	0.35	—1.21	0.20	3.5	2	19	2	10	se.	J. H. Landes
Knoxville	Marion	920	30	22.5	+ 1.1	47	24	— 9	27	36	0.33	—0.90	0.20	3.3	3	20	8	3	sw.	W. J. Casey.
Lacona	Warren	------	26	------	------	------	------	------	------	------	0.60	—1.05	0.20	6.0	3	8	17	6	------	J. B. Alter
Lamoni	Decatur	1,123	18	23.7	+ 2.3	51	24†	— 9	27	36	0.32	—0.74	0.17	3.7	3	20	3	8	sw.	Roy L. Roberts
Lenox	Taylor	1,250	30	22.6	+ 1.0	50	24	—10	27	40	0.40	—0.27	0.20	4.0	4	23	3	5	sw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	23.4	+ 1.2	49	24†	— 9	27	40	0.29	—0.73	0.12	3.1	3	21	3	7	s.	Alex Maxwell
Mt. Pleasant	Henry	729	44	23.6	+ 1.1	48	24	— 5	27	30	0.52	—1.02	0.20	6.0	3	16	8	7	sw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	20.4	+ 0.5	47	24	—13	17	43	0.80	------	0.40	8.0	4	24	1	6	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	22.0	+ 1.3	46	24	— 9	—17	35	0.27	—0.76	0.16	3.7	3	9	11	11	nw.	Roy R. Robinson
Ottumwa	Wapello	649	30	23.4	------	50	25	— 6	17	40	0.25	—1.27	0.15	2.4	2	18	3	10	nw.	C. L. Mikesh
Pella	Marion	877	32	21.8	+ 1.2	43	21†	—13	17	36	0.10	—0.93	0.10	0.2	1	21	2	8	s.	J. H. Ver Steeg
Red Oak (near)	Montgomery	1,030	------	------	------	------	------	------	------	------	0.33	------	0.25	6.0	2	11	11	9	s.	B. R. Bridge
Sigourney	Keokuk	790	29	22.3	+ 1.8	45	24	— 9	17	33	0.38	—0.88	0.32	3.6	2	20	5	6	nw.	W. E. Utterback
Stockport	Van Buren	745	23	21.9	+ 0.5	48	24†	—11	13	39	0.73	—0.65	0.25	7.0	3	19	3	9	se.	C. L. Beswick
Thurman	Fremont	975	28	20.0	— 1.8	45	24	—17	17	45	0.72	+0.04	0.32	8.5	3	14	11	6	sw.	C. R. Paul
Tingley	Ringgold	1,275	------	22.5	------	46	24†	— 9	27	38	0.18	------	0.08	2.3	3	22	6	3	ne.	James A. Verploegh
Washington	Washington	769	43	22.4	+ 1.4	45	24	— 7	27	32	0.80	—0.68	0.32	10.0	3	19	2	10	sw.	D. D. Sherman
Wescott (near)	Lee	------	3	25.2	------	55	24	—14	27	35	0.37	------	0.35	3.7	2	19	8	4	e.	Lester J. Larson
Winterset	Madison	1,129	34	22.2	+ 1.5	46	24	—11	27	35	0.24	—0.68	0.08	3.0	3	27	2	2	sw.	H. S. Ely
Omaha, Nebr.	------	1,103	54	22.5	+ 0.6	47	24	— 7	27	40	0.80	+0.15	0.68	9.0	6	12	13	6	n.	U. S. Weather Bureau
Means and extremes	------	------	----	22.5	+ 1.1	55	24	—17	17	49	0.43	—0.74	0.68	4.6	3	18	7	6	sw.	
State means and extremes	------	------	----	19.4	+ 0.9	55	24	—24	27	53	0.40	—0.68	0.68	4.2	3	17	7	7	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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	30.19	30.80	26	29.69	31	91	71	83	48	23	4,948	6.7	25	n.	25	57	+ 9
Davenport	30.20	30.71	23	29.84	31	88	77	78	50	22	4,978	6.7	23	s.	6	41	— 7
Des Moines	30.18	30.78	26	29.76	31	89	67	72	39	23	5,161	6.9	28	sw.	31	69	+20
Dubuque	30.17	30.73	26	29.73	31	82	65	72	44	22	4,610	6.2	29	nw.	31	53	+ 4
Keokuk	30.21	30.68	23	29.82	25	77	61	66	29	12	5,006	6.7	25	n.	26	68	+17
Sioux City	30.19	30.83	26	29.70	31	81	67	74	44	6	7,977	10.7	47	n.	20	57	+ 5
Omaha, Neb.	30.19	30.79	26	29.79	31	83	63	73	39	7	5,748	7.7	40	n.	20	64	+ 9
Means and extremes	30.19	------	----	------	----	84	67	74	----	----	------	7.4	----	------	----	58	+ 8
	------	30.83	26	29.69	31	---	---	---	29	12	------	----	47	n.	20	----	----
Normals and records	30.14	------	25th	------	3d	85	---	78	---	2d†	------	8.7	---	------	6th	50	----
	------	¶31.09	1905	§28.71	1906	---	---	---	*25	1925	------	----	¶72	nw.	1903	----	----

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

MISCELLANEOUS PHENOMENA—(Continued)

Halos (Lunar and solar): 3d, 4th, 6th, 7th, 8th, 12th, 13th, 15th, 19th, 22d, 23d, 26th, 27th, 28th, 31st.

Parhelia: 12th.

Sleet: 15th, 16th, 25th, 26th, 28th.

Winds (strong): 26th, 31st.

RIVERS

A gradual, though slight, fall prevailed on the Mississippi River throughout the month with a mean stage slightly below the normal. Low and nearly stationary stages prevailed on all interior rivers. There was considerable fluctuation on the Missouri River with a falling tendency till the middle of the month and a slight rising tendency the remainder of the month. All rivers were frozen during the entire month, with the ice ranging from a foot to more than two feet in thickness.

Daily Precipitation for January, 1925

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	.08	.04										.24																	.24			0.60
Allison (near)	Cedar	T.	T.								T.		.10																				0.10
Alta	Raccoon	.05				.03						.08				.04										.03			.18				0.41
Alton	Floyd	.30				T.				T.	T.	.15				.05										T.			.20				0.70
Belmond	Iowa	.02	.05	.02						T.		T.	.13	T.		T.	.06			T.						T.	T.		.12	.15		.02	0.57
Britt	Iowa		T.	T.									T.													T.			T.	.39			0.39
Charles City***	Cedar		.01	.01							T.		.08			T.	T.									T.				T.			0.10
Cherokee	Little Sioux	.20	T.			.05					.02	T.				T.	.05									T.			.10	.15		T.	0.57
Decorah	Mississippi		T.										.20													T.							0.20
Dubuque***	Mississippi	.02	T.	T.						T.	T.	T.	.02				.07									T.	T.							0.11
Estherville	Des Moines	.10										.15				.05										.05				.10			0.45
Fayette	Mississippi		T.	T.									.13				T.										.02						0.15
Forest City	Cedar		T.	T.									.10				.10									T.				.20			0.40
Hampton	Cedar		.02								T.		.06			T.	T.													.03			0.11
Humboldt	Des Moines	.08	.04			T.							.14				T.									T.	T.		.22				0.48
Independence	Wapsipinicon	T.		.04									.14				T.																0.18
Inwood	Big Sioux	.28			.01						T.	.03				.05										T.	.01		.25	.05			0.68
Le Mars	Floyd	.08									T.	.03	.05			T.										T.	T.		.19	T.			0.35
Mason City	Cedar	.05											.07				T.									T.			.11				0.23
Milford (near)	Little Sioux	.20										.40			T.	T.										T.			.23				0.83
New Hampton	Wapsipinicon												.05													T.				.10			0.15
Nora Springs	Cedar		.09	.03									.14			.03										.06			.15				0.50
Northwood	Cedar		.05										.05				.05									T.				.10			0.25
Oelwein	Wapsipinicon																																**
Osage	Mitchell		.05	.02									.10			.05										T.			.15				0.37
Pocahontas	Des Moines	.15															.03									.02			.05	.20			0.45
Postville	Mississippi		T.	.05									.10																	T.			0.15
Rock Rapids	Big Sioux	.32										.10	.02			.10													.20	.10			0.84
Sanborn	Floyd					.02						.20				.05										.05				.10			0.42
Sioux Center	Floyd	.30				.05				T.	.05	.10			T.	.10													.20	T.			0.80
Spencer	Little Sioux	.32											.08			.04										.50			.04	.08			1.06
Storm Lake	Raccoon	.17		T.		T.					T.		.05				T.												T.	.18			0.40
Washta	Little Sioux	.10				T.						.03				T.										T.			.45				0.58
Waterloo	Cedar	.01	.02	T.							T.		.03				.02																0.08
Waverly	Cedar																																
West Bend	Des Moines	.08	.04										.08			.04										.03	.01		.06	.20			0.54
Central Division																																	
Ames	Skunk	.10	T.	T.		T.							.02			T.	.04													T.			0.16
Audubon	Nishnabotna	.10											.10																.48				0.68
Baxter	Skunk	.08											T.																				0.08
Belle Plaine	Iowa	.02	T.								T.		.15				.10										T.						0.27
Boone	Des Moines	.08	T.			T.							.02				.05													T.		.02	0.17
Carroll	Raccoon												.17																.21	.10			0.48
Cedar Rapids	Cedar	T.											T.				.08																0.08
Clinton	Mississippi	.05											.03				.11									T.							0.19
Davenport***	Mississippi	.14	T.						T.		T.		.09				.17									T.	T.						0.40
Davenport (No. 2)	Mississippi	.11	.02										.09	.01			.15										T.						0.38
Denison	Missouri	.07									T.		T.														T.		.22	.13			0.42
Des Moines***	Des Moines	.12				T.							T.			T.	.11																0.23
Fairport	Mississippi	.28											.01				.17										.02						0.48
Fort Dodge	Des Moines	.13	T.	T.									.16																.05	.13			0.47
Grinnell	Iowa	.05				T.					T.		.05				.07																0.17
Grundy Center	Cedar	T.											T.				.05																0.05
Guthrie Center	Raccoon	.08											.14				.08													.32			0.62
Harlan	Nishnabotna	T.																											.48				0.48
Iowa City	Iowa	.03				T.							T.				.26																0.29
Iowa Falls	Iowa	T.	.02	.02									.20				T.									T.			T.				0.24
Jefferson	Raccoon	.15				T.							.20				T.												.05	.25			0.65
Le Claire‖	Mississippi																																
Little Sioux	Little Sioux	.06			.08																								.45				0.59
Logan	Missouri																												.48				0.48
Marshalltown	Iowa	.03		T.		T.					T.		.03				.09		T.								T.						0.15
Monroe	Des Moines	T.	T.			T.						T.	T.				.17									T.							0.17
Muscatine‖	Mississippi																																
Olin	Wapsipinicon	.10	.05														.20																0.35
Onawa	Missouri	.10		T.												T.													.40				0.50
Perry	Raccoon	.04				T.							.06				.06														.06			0.22
Rockwell City	Raccoon												.10				T.												T.	.40			0.50
Sac City	Raccoon	.20				T.																				T.			.25				0.45
Sioux City***	Missouri	.10		.01		T.						.03	.06			.01										T.			.45	T.			0.66
Tipton	Cedar	.05											.02				.10																0.17
Toledo	Iowa	.05									T.		.04				.08																0.17
Van Meter‖	Raccoon	.05	.03										.01				.02	.02												.07			0.20
Waukee	Raccoon	.20				T.						T.	.11			T.	.08													.05			0.44
Webster City	Des Moines	T.	T.																										T.	.16			0.16
Williamsburg	Iowa										T.						.60																0.60

Daily Precipitation for January, 1925—Continued

Stations	Drainage Basin	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Totals
Southern Division																																	
Afton	Grand												T.			T.	.10												.20			0.30
Albia	Des Moines	.13											.01			T.	.13										T.					0.27
Atlantic	Nishnabotna	.09		T.									.05				.08												.09	.20			0.51
Bonaparte	Des Moines	T.											.10				.21										T.						0.31
Burlington	Mississippi	.35											.50				.38																1.23
Centerville	Chariton	.11											.02			T.	.04										T.						0.17
Chariton	Chariton												T.				.11																0.11
Clarinda	Nodaway	.10											.20																	.20			0.50
Columbus Jct.	Iowa																																
Corning	Nodaway	T.														.15													.20				0.35
Corydon	Chariton		T.													T.	.12										T.						0.12
Creston	Missouri																																
Cumberland (near)	Nodaway	.03		T.									T.				.01												T.	.22			0.26
Earlham	Des Moines	.20										T.	.05				.10													.20			0.55
Fairfield	Skunk	.17											.20			T.	.10										T.						0.47
Glenwood	Missouri	.03															.35												.10	.30			0.78
Indianola	Des Moines	.21											T.			T.	.15																0.36
Keokuk***	Mississippi	.08											.12			.07	.08										T.						0.35
Keosauqua	Des Moines	.15											.20			T.											T.						0.35
Knoxville	Des Moines	.10											.03				.20																0.33
Lacona	Des Moines	.20											.20				.20										T.						0.60
Lamoni	Grand	.04												T.		T.	.11													.17			0.32
Lenox	Missouri	.05											.05				.10										T.			.20			0.40
Mt. Ayr	Grand	.05														T.	.12													.12			0.29
Mt. Pleasant	Skunk	.20											.13				.19																0.52
Oakland	Nishnabotna	.10	T.									.10					.20												.40				0.80
Oskaloosa	Des Moines	.07	T.			T.			T.		T.		.04				.16										T.						0.27
Ottumwa	Des Moines	.15	T.								T.		T.				.10										T.						0.25
Pella	Skunk	T.					T.							T.			.10																0.10
Red Oak (near)	Missouri				.08																									.25			0.33
Sigourney	Skunk	.06															.32										T.						0.38
Stockport	Skunk	.23											.25				.25										T.						0.73
Thurman	Missouri	.10									T.		T.			T.	.32										T.		.30				0.72
Tingley	Platt	.04											T.			T.	.06													.08			0.18
Washington	Skunk	.24											.24				.32										T.						0.80
Wescott (near)	Mississippi	.02											.35																				0.37
Winterset	Des Moines	.08											.08				T.													.08			0.24
Omaha, Neb.***	Missouri	.04		T.							.04		T.			.03	.01									T.	T.		.67	.01			0.80

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.

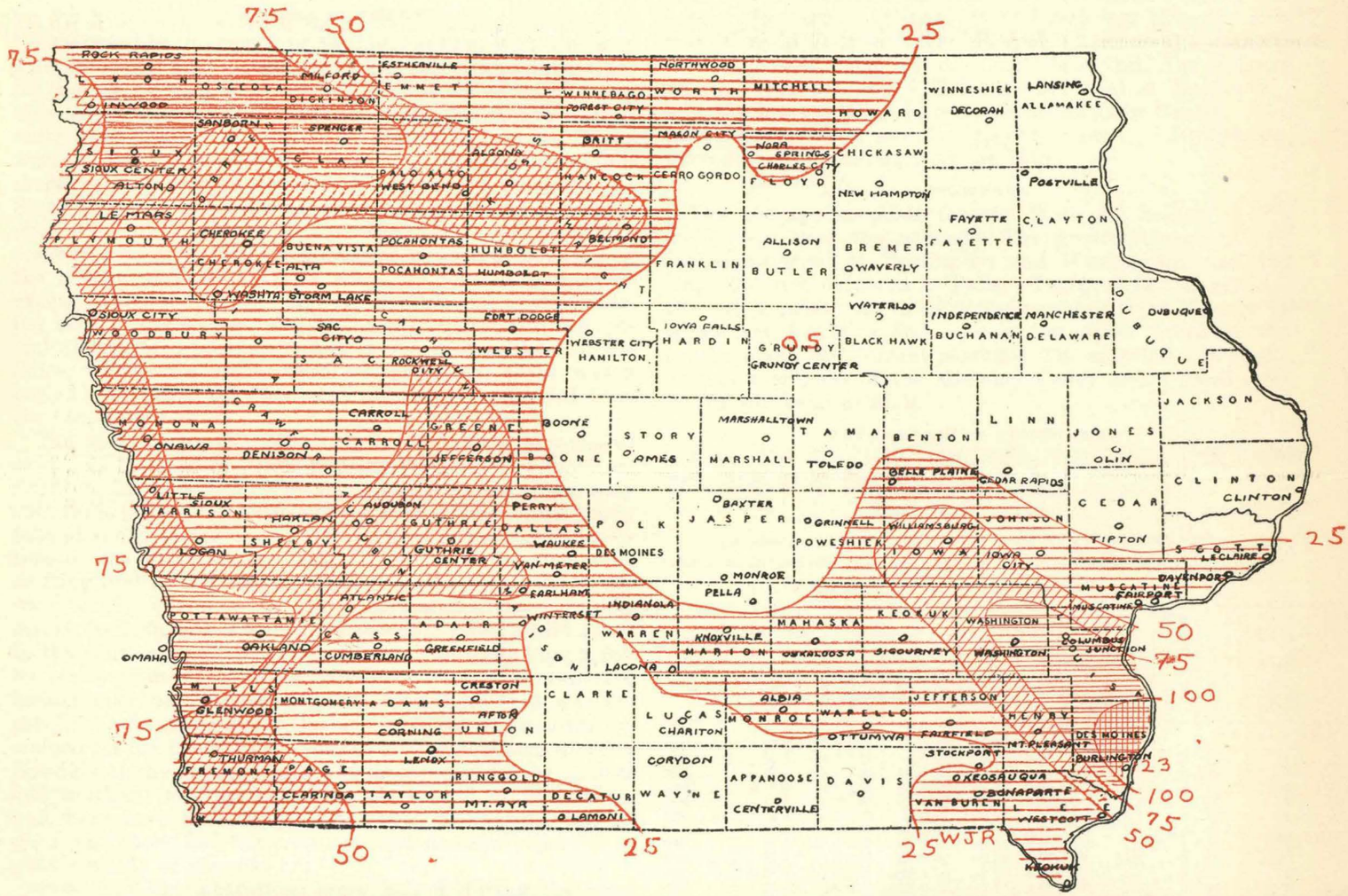
T. Precipitation is less than .01 inch rain or melted snow.

Daily Maximum and Minimum Temperature for the Month of January, 1925

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
Northern Division																																	
Algona	Maximum	20	25	28	33	27	39	35	28	28	24	27	26	8	11	17	15	19	20	36	33	34	33	31	38	30	23	10	23	21	25	37	25.9
	Minimum	4	17	13	12	21	18	18	2	5	−5	7	2	−9	−14	3	2	−6	1	12	10	12	18	12	24	22	−12	−18	9	8	0	3	6.2
Alta	Maximum	16	22	27	23	24	36	30	24	19	11	21	19	5	10	9	7	21	21	35	31	35	30	34	37	30	13	12	22	20	31	37	23.0
	Minimum	3	12	16	13	11	14	16	7	3	3	7	−4	−6	−7	2	−1	−5	7	15	10	15	14	10	26	13	−14	−17	9	7	7	0	6.0
Alton	Maximum	16	19	30	30	27	36	27	22	17	15	22	18	4	10	8	7	20	21	35	32	37	32	35	37	30	17	11	20	20	28	38	23.3
	Minimum	3	9	12	9	4	16	12	−7	−7	3	0	−9	−13	−16	0	−4	−12	−5	5	11	15	18	14	26	17	−12	−17	10	9	10	3	3.4
Belmond	Maximum	20	23	26	29	27	35	31	29	21	18	28	26	9	12	18	16	20	21	35	30	36	32	29	39	31	24	10	24	22	30	37	25.4
	Minimum	8	16	15	11	10	18	19	3	6	−5	15	−2	−10	−12	8	−3	−8	−1	12	11	13	16	14	15	24	−10	−15	9	4	0	0	5.8
Charles City	Maximum	22	25	26	28	26	36	32	28	24	18	30	24	9	13	18	16	22	26	33	32	38	30	27	39	31	14	13	24	27	31	38	25.8
	Minimum	11	17	17	13	12	21	12	3	7	6	16	−5	−9	−16	8	−4	−6	14	14	15	14	15	13	26	14	−10	−12	10	14	9	3	7.8
Decorah	Maximum	24	27	26	24	23	33	30	26	25	20	27	23	12	12	17	16	23	25	31	32	36	30	25	36	32	26	15	24	25	30	37	22.5
	Minimum	7	17	10	11	12	19	19	−1	14	8	13	12	−10	−20	1	4	−10	13	11	10	7	10	10	21	24	−10	−19	10	13	7	4	7.0
Dubuque	Maximum	25	26	33	31	34	37	35	26	29	22	30	24	18	19	26	25	25	32	35	37	38	33	26	45	36	28	17	22	32	41	46	30.1
	Minimum	16	22	17	16	20	21	20	11	12	16	10	14	3	−2	12	7	0	12	9	22	20	18	12	24	28	−5	−6	9	17	16	13	13.0
Forest City	Maximum	19	25	26	29	26	37	33	30	24	15	27	26	14	22	12	15	18	21	36	34	35	31	31	38	32	30	10	24	22	25	37	25.9
	Minimum	3	15	12	9	6	18	11	0	5	−8	11	1	−8	−10	7	3	−5	10	18	14	17	21	15	26	29	−10	15	0	8	1	1	6.6
Independence	Maximum	23	27	24	32	32	37	37	35	27	27	31	29	20	15	14	24	21	24	31	35	40	41	35	41	41	35	15	23	31	38	43	29.9
	Minimum	11	19	19	15	16	17	24	8	16	9	15	14	−7	−11	5	12	−5	10	9	17	8	22	10	21	22	1	−10	8	14	10	22	11.0
Inwood	Maximum	13	20	30	28	25	33	27	22	12	13	17	18	6	12	7	5	17	20	36	35	37	31	34	37	23	10	9	16	19	31	26	21.6
	Minimum	1	7	8	7	4	17	10	−5	−6	8	9	−14	−14	−18	−2	−10	−13	−5	15	7	16	15	13	20	10	−17	−20	9	3	1	2	1.9
Mason City	Maximum	20	24	26	26	26	34	29	28	23	13	26	26	8	13	16	18	19	22	34	31	35	31	28	39	33	25	12	23	21	31	31	24.9
	Minimum	10	18	15	12	10	20	20	3	5	−3	10	−2	−10	−15	6	−2	−13	4	13	12	15	15	11	26	23	−10	−14	10	5	9	0	6.5
Milford (near)	Maximum	16	19	28	24	26	34	28	22	17	18	23	22	5	13	11	8	18	19	35	32	35	33	33	34	25	16	11	20	20	26	23	22.4
	Minimum	0	11	8	9	9	16	11	−16	−2	−10	−3	−3	−13	−20	−3	−4	−2	−2	13	8	8	15	10	25	15	−16	−24	8	2	3	2	1.8
New Hampton	Maximum	21	24	26	27	27	34	32	27	25	18	28	23	10	11	17	16	22	28	34	31	37	32	26	37	32	20	15	25	30	33	36	25.9
	Minimum	5	17	15	12	10	18	18	3	15	6	14	6	−10	−10	5	6	−6	10	10	15	14	15	−3	20	20	−8	−13	7	14	8	6	7.7
Northwood	Maximum	18	25	25	23	33	27	26	20	18	28	18	8	11	13	11	18	25	33	31	34	30	27	35	37	30	18	11	25	20	27	37	23.6
	Minimum	8	11	10	13	11	19	14	2	4	−5	14	−1	−10	−12	3	−6	−9	13	13	13	9	15	10	27	18	−12	−15	7	----	3	0	5.6[a]
Pocahontas	Maximum	20	29	30	30	25	37	33	30	26	24	30	22	8	9	23	10	21	20	38	32	35	37	35	37	30	20	15	22	22	27	38	26.2
	Minimum	−4	14	13	14	8	14	15	0	5	4	2	−3	−14	−14	0	0	−10	−1	12	10	9	15	6	28	20	−11	−19	9	5	−3	0	4.0
Postville	Maximum	23	24	26	26	28	34	30	26	23	17	27	25	14	13	17	18	20	29	32	30	36	31	24	36	33	30	15	23	28	33	37	26.1
	Minimum	2	17	12	12	13	14	19	4	12	9	8	9	−9	−12	2	4	−6	8	10	15	12	8	9	20	26	−8	−15	6	14	11	5	7.5
Central Division																																	
Belle Plaine	Maximum	26	32	32	33	32	40	38	31	35	20	24	32	18	18	29	30	23	21	34	34	43	38	29	45	37	34	15	25	34	43	43	31.2
	Minimum	16	20	20	10	15	17	24	9	14	8	12	5	−7	−7	11	10	−7	4	19	19	10	21	11	23	28	1	−9	10	15	12	13	11.2
Boone	Maximum	24	25	35	37	31	42	39	35	31	24	29	28	19	17	29	28	27	29	40	36	42	36	36	47	37	34	13	24	26	40	42	31.7
	Minimum	14	20	19	17	9	15	21	2	12	3	14	5	−7	−8	10	8	−11	−3	6	16	4	26	15	27	23	−2	−14	11	7	4	9	8.8
Carroll	Maximum	21	22	34	35	30	42	39	34	26	23	25	25	13	16	20	17	28	32	40	32	42	34	37	40	33	28	15	23	21	34	38	29.0
	Minimum	10	13	16	18	14	22	22	9	9	0	10	0	−6	−9	6	4	−5	4	14	14	17	15	15	30	28	−9	−15	10	8	10	5	9.0
Davenport	Maximum	24	28	32	34	33	41	35	31	35	23	30	25	17	22	36	35	22	24	31	37	37	36	29	43	37	35	16	21	30	39	45	31.1
	Minimum	18	20	22	18	25	20	24	14	15	17	16	11	2	2	9	10	1	9	4	13	17	16	10	29	29	1	−4	9	18	15	17	13.8
Des Moines	Maximum	25	24	36	37	33	42	40	36	33	23	29	25	20	20	29	25	27	29	41	34	44	39	38	45	43	21	16	26	30	42	43	32.1
	Minimum	16	20	16	26	20	18	26	16	18	10	18	3	0	0	12	3	−3	5	5	17	14	19	16	34	21	−4	−7	12	14	14	7	12.5
Ft. Dodge	Maximum	22	25	29	30	30	38	37	32	30	18	28	29	10	12	21	22	24	22	38	36	38	34	34	40	35	32	12	25	22	34	39	28.3
	Minimum	8	17	14	7	9	16	19	0	3	−6	10	1	−14	−19	6	4	−10	−4	11	11	13	19	12	29	28	−11	−19	8	2	−4	4	5.3
Grinnell	Maximum	25	29	34	36	31	40	36	33	32	28	32	28	20	18	30	30	25	23	38	33	41	38	31	43	42	36	14	25	34	42	42	31.9
	Minimum	13	20	16	13	15	15	25	10	15	4	15	10	−6	−5	8	13	−5	5	7	18	12	27	11	26	27	0	−10	10	15	13	18	11.5
Guthrie Center	Maximum	20	23	37	36	31	44	42	35	31	28	27	27	19	18	25	24	30	35	36	36	42	38	39	47	42	34	15	22	25	38	39	31.8
	Minimum	12	14	16	20	16	15	25	15	16	5	12	5	−7	−9	8	6	−8	2	12	15	17	23	15	23	26	−7	−15	10	7	5	10	9.8
Iowa City	Maximum	25	28	30	35	33	39	37	30	31	20	29	27	20	20	31	31	20	21	33	33	39	36	28	40	37	35	15	23	32	39	45	30.4
	Minimum	15	20	20	13	21	16	22	8	12	10	16	15	−2	−4	12	10	−8	4	3	15	7	22	10	24	29	5	−7	10	15	11	20	11.7
Iowa Falls	Maximum	23	25	30	32	28	38	34	28	26	20	29	27	13	14	25	22	24	22	35	33	40	34	29	40	35	31	11	23	26	37	38	28.1
	Minimum	10	20	16	12	12	17	22	5	12	2	14	4	−10	−11	9	6	−6	1	9	14	9	21	19	27	28	−6	−10	10	12	9	7	9.2
Little Sioux	Maximum	20	24	35	35	34	44	38	34	32	22	24	24	18	23	21	14	30	36	41	37	42	42	42	41	41	34	34	24	25	37	38	31.8
	Minimum	9	8	12	8	10	12	16	0	5	10	10	0	−10	−9	10	0	−6	−2	17	17	17	17	21	29	26	−11	−8	−2	6	4	3	7.1
Marshalltown	Maximum	25	26	33	35	28	39	36	31	32	21	31	27	16	18	27	26	24	22	38	34	41	34	32	46	36	34	14	24	33	42	41	30.5
	Minimum	13	20	20	13	18	18	25	11	18	6	16	6	−4	−4	10	7	−3	6	8	18	15	23	13	27	29	−2	−9	12	16	14	9	11.9
Olin	Maximum	25	28	31	32	33	38	35	25	31	25	30	26	23	20	28	35	30	21	20	32	36	36	33	40	38	35	16	22	32	38	45	30.3
	Minimum	14	16	22	19	13	16	15	0	4	15	14	18	−4	−6	9	24	16	−14	3	5	13	−2	8	21	28	9	−6	8	15	10	22	10.5
Sioux City	Maximum	17	25	34	32	29	40	30	27	20	16	20	20	7	10	10	6	24	28	37	36	44	34	37	41	32	4	17	20	19	37	43	25.7
	Minimum	6	9	23	19	18	19	16	8	8	9	11	−1	−3	−5	5	−1	−1	2	22	19	22	23	20	28	4	−10	−11	13	8	5	2	9.3
Southern Division																																	
Albia	Maximum	26	29	36	38	38	41	38	34	36	25	31	27	25	23	31	33	28	32	41	33	42	40	35	48	50	37	18	26	33	44	41	34.2
	Minimum	15	20	13	20	19	14	24	17	16	8	15	9	−4	−1	8	12	−5	4	9	22	13	23	14	28	29	4	−8	12	14	15	16	12.7
Atlantic	Maximum	22	22	37	37	31	43	38	29	26	26	27	27	21	16	28	24	26	31	41	34	37	40	39	38	37	35	18	23	22	31	38	30.5
	Minimum	13	9	14	20	18	13	25	8	17	8	10	7	−9	−6	11	5	−11	−3	13	19	10	19	18	31	29	−5	−11	11	−3	1	9	9.4
Burlington	Maximum	23	30	34	37	36	42	39	37	37	33	31	28	24	24	37	39	24	22	33	32	39	38	31	46	44	40	17	27	31	39	47	33.6
	Minimum	19	19	20	14	25	16	28	16	14	15	13	19	1	3	10	19	0	6	8	6	19	29	12	27	31	10	−4	11	17	16	26	15.0
Columbus Jct.	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Corning	Maximum	23	22	36	35	35	42	41	34	35	28	29	31	29	25	34	36	28	32	44	34	41	38	47	41	50	49	22	43	42	39	34	35.5
	Minimum	15	6	11	18	13	13	12	16	18	10	9	6	−7	−5	10	7	−13	−3	11	10	7	20	18	31	30	0	−9	16	22	24	4	10.3
Corydon	Maximum	24	25	34	36	33	39	37	33	34	26	31	28	16	16	33	34	20	29	34	33	41	38	37	41	48	47	23	25	32	41	45	32.7
	Minimum	11	19	11	22	21	15	20	19	16	9	11	8	3	−1	7	12	7	6	13	21	11	22	11	30	30	6	−8	11	14	14	22	13.3
Fairfield	Maximum	26	29	32	36	36	42	35	36	34	27	30	25	20	19	33	34	27	21	31	30	42	37	32	45	44	35	17	25	32	43	46	32.3
	Minimum	11	21	17	13	21	10	22	12	12	8	14	9	−4	−3	7	14	−5	0	0	6	5	25	12	26	30	6	−6	12	17	13	18	11.1
Keokuk	Maximum	23	31	35	37	38	45	41	44	42	23	32	26	23	26	39	34	27	29	36	33	42	40	33	49	52	35	18	24	32	43	48	34.8
	Minimum	19	20	21	24	25	19	27	20	17	15	15	6	−2	5	14	17	3	9	13	16	21	23	15	33	32	6	−2	11	17	18	20	16.0
Lamoni	Maximum	24	23	34	37	33	41	39	34	36	31	33	28	30	28	34	34	29	39	45	34	41	42	41	51	51	40	21	24	29	43	44	35.3
	Minimum	15	10	11	23	17	12	23	19	11	11	13	8	−4	2	9	10	−4	3	13	22	11	24	18	31	29	5	−9	10	7	8	17	12.1
Pella	Maximum	26	25	28	38	38	32	40	39	33	35	25	30	25	21	29	30	23	21	36	34	43	37	33	45	43	38	20	26	36	43	38	32.6
	Minimum	16	21	22	15	16	17	11	18	5	7	5	15	11	−5	7	13	−13	3	1	12	12	22	14	27	25	5	−9	12	14	11	15	11.1
Sigourney	Maximum	25	29	34	36	33	41	37	31	35	31	31	38	21	21	29	32	24	21	34	31	39	37	30	45	41	36	15	24	32	41	42	32.1
	Minimum	15	20	15	12	18	13	23	9	9	7	13	14	15	16	9	16	−9	−1	2	15	7	24	12	26	29	7	−8	11	16	11	22	12.5
Thurman	Maximum	23	24	34	34	33	40	39	34	28	23	25	24	23	21	33	28	21	30	38	32	41	37	43	45	43	41	18	25	38	40	40	32.2
	Minimum	12	−6	11	14	14	7	17	8	13	11	6	10	−6	−5	4	6	−17	−8	5	19	5	19	21	32	30	−1	−6	12	13	−5	8	7.8
Winterset	Maximum	24	22	39	39	34	40	40	36	33	27	28	26	22	20	25	25	28	38	42	35	42	39	38	46	42	35	18	25	22	41	40	32.6
	Minimum	13	18	15	22	18	16	27	13	20	8	13	5	−5	−5	9	10	−5	5	13	12	16	22	12	32	28	0	−11	12	9	11	12	11.8
Omaha	Maximum	20	27	35	38	32	43	41	40	28	18	24	22	20	24	25	15	29	33	41	38	46	41	43	47	43	18	18	20	22	36	42	31.4
	Minimum	13	8	18	22	23	22	23	17	14	11	9	7	5	2	10	7	4	11	21	22	21	27	24	33	18	−5	−7	14	12	13	2	13.6

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from record.

TOTAL PRECIPITATION, JANUARY, 1925



SCALE OF SHADES—IN INCHES

Less than .25	.25 to .50	.50 to .75	.75 to 1.00	More than 1.00

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. XXXVI DES MOINES, IOWA, FEBRUARY, 1925 No. 2

GENERAL SUMMARY

Uniformly mild winter weather prevailed during February throughout the State and the month was decidedly the warmest of the three winter months. The mean temperature for the state, 28.4°, is the highest, with the exception of 1915 and 1921, in the history of the State for February. There were no prolonged cold spells and the temperature was below normal only three brief periods, the first at the beginning of the month, the second on the 16th and 17th, and the last and longest period of three days, at the end of the month. Zero weather occurred on one or more days throughout the northern division and most of the central division, but zero was reached on a single day in about one-fourth of the southern division.

The precipitation was very unevenly distributed, and while the average for the State was slightly more than two-thirds of the normal, there was a decided deficiency in about 85 per cent of the State and small areas in the extreme southeastern and extreme southwestern portions had excesses that amounted to more than one inch. In about one-third of the State, mostly in the central division, the precipitation amounted to less than half an inch. At a number of stations in the north-central section the precipitation was nearly all snow, but over the rest of the State rain predominated and at several stations in the southwestern portion it was all rain. The heaviest snowfall was 12.0 inches and the fall exceeded 5.0 inches over only about one-tenth of the State. The heaviest individual fall of snow was 6.0 inches, but there were only a few stations that had individual falls of 4.0 inches or more. There was very little drifting and railroads were not hampered in any way by snow or adverse weather conditions. Highways remained open as to snow drifts but thawing made dirt roads almost impassable during most of the first half of the month, after which there was a decided improvement and at the end of the month roads were in unusually good condition except in small areas where the rainfall was heaviest.

Conditions were favorable for out door work but the frost had not left the ground sufficiently to permit plowing except small areas in the southern portion of the State, where it was too wet. There was too little moisture in a wide belt running east and west across the State and many fields in this area were beginning to show the need of rain.

F. L. D.

TEMPERATURE

The mean temperature for the state, as shown by the records of 99 stations, was 28.4°, or 5.8° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 24.4°, or 5.3° higher than the normal; Central, 28.7°, or 5.8° higher than the normal; Southern, 32.2°, or 6.4° higher than the normal. The highest monthly mean was 33.8°, at Burlington and Centerville, and the lowest was 21.6°, at Estherville. The highest temperature reported was 66° at Perry on the 6th, and the lowest was —16° at Rock Rapids, Sanborn and Spencer on the 2d. The temperature range for the State was 82°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 103 stations, was 0.82 inch, or 0.38 inch less than the normal. By divisions, the averages were as follows: Northern, 0.58 inch, or 0.48 inch less than the normal; Central, 0.65 inch, or 0.61 inch less than the normal; Southern, 1.24 inches, or 0.05 inch less than the normal. The greatest amount, 3.69 inches, occurred at Burlington, and the least, a trace occurred at Creston and Cumberland. The greatest amount in 24 consecutive hours, 1.95 inches, occurred at Glenwood on the 22d-23d.

SNOWFALL

The average snowfall for the State was 2.6 inches, or 4.8 inches less than the normal. The average for February has been less but once in the history of the State. In about one-third of the State, in the central and southern divisions, the total snowfall was less than one inch and a large number of stations in the southwestern portion reported only a trace. A few stations in the northern division had a snow cover the entire month, but over more than half of the State the range was from a single day to a week, while in several counties in the southwestern portion there was no snow on the ground at any time.

(Continued on Page 3)

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
1890	26.0	+3.4	67	—24	0.83	—0.37	2.18	0.11	------	------	----	----	----
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	24.9	+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

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.
*New normals effective June 1, 1924

Climatological Data for February, 1925

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	52	24.0	+ 5.2	44	20†	—10	2	28	0.96	—0.13	0.32	12.0	5	10	6	12	nw.	W. E. Laird
Allison (near)	Butler	1,044	13	25.2	+ 5.9	52	4†	— 6	27	35	0.78	—0.66	0.29	4.5	6	8	8	12	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	24.4	+ 4.7	49	24	— 8	2	29	0.50	—0.52	0.12	3.3	7	12	7	9	nw.	D. E. Hadden
Alton	Sioux	1,305	20	24.5	+ 5.6	45	6	—14	2	27	0.50	—0.46	0.15	4.0	5	7	13	8	nw.	W. S. Slagle
Belmond	Wright	1,205	15	23.6	+ 5.3	50	6	—10	2	32	0.52	—0.59	0.22	5.3	5	5	10	13	w.	Geo. P. Hardwick
Britt	Hancock	1,236	38	23.3	+ 5.7	49	6	—13	2	31	0.58	—0.23	0.32	6.0	3	10	6	12	nw.	Jas. S. Ross
Charles City	Floyd	1,015	34	24.2	+ 7.1	51	6	— 5	27	32	0.57	—0.57	0.28	3.2	4	5	9	14	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	24.0[b]	------	52[b]	24	—15[b]	2	32[b]	0.16	------	0.06	1.3	4	----	----	----	ne.	J. E. Wirth
Decorah	Winneshiek	875	32	23.3	+ 5.5	46	8	— 7	27	30	0.78	—0.27	0.50	3.5	3	12	6	10	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	27.7	+ 5.5	56	6	— 2	27	33	1.08	—0.42	0.60	2.7	11	6	6	16	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	21.6	+ 3.7	50	6	—15	2	35	0.95	+0.11	0.30	9.5	6	14	9	5	s.	A. O. Peterson
Fayette	Fayette	1,003	35	24.5	+ 5.5	52	6	—11	17	39	0.45	—0.83	0.18	3.7	3	11	5	12	nw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	24.0	+ 5.4	48	4†	—11	2	33	0.62	—0.32	0.40	6.2	4	7	6	15	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	24.2	+ 4.3	57	6	— 5	27	42	0.38	—0.92	0.13	4.1	4	10	7	11	nw.	L. H. Davis
Humboldt	Humboldt	1,095	37	24.8	+ 4.3	50	6	—10	2	35	0.36	—0.56	0.22	4.5	3	8	8	12	n.	H. C. Snitkey
Independence	Buchanan	921	61	27.8	+ 6.6	56	6	— 6	17	45	0.35	—0.70	0.25	3.5	2	12	2	14	nw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	22.0[e]	+ 4.2	47	4	— 3[k]	27	31[k]	0.33	—0.54	0.12	2.4	5	11	6	11	nw.	A. C. Hanson.
Le Mars	Plymouth	1,224	29	25.6	+ 4.7	50	24	—13	2	30	0.08	—0.72	0.08	2.0	1	18	4	6	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	24.0	+ 5.9	52	6	—11	2	37	0.53	—0.42	0.29	7.5	4	6	11	11	se.	Northern Sugar Corp.
Milford (near)	Dickinson	1,430	5	23.0	------	50	24	—15	2	31	1.48	------	0.50	9.0	4	20	4	4	s.	S. N. McKinsey.
New Hampton	Chickasaw	1,169	28	24.4	+ 5.7	53	6	— 8	27	29	0.58	—0.47	0.20	4.0	4	7	8	13	nw.	A. F. Kemman
Nora Springs	Floyd	1,064	13	25.4	+ 5.4	54	6	— 7	2†	40	0.82	—0.43	0.46	4.3	6	7	10	11	s.	Arthur Betts
Northwood	Worth	1,222	29	----	----	----	----	----	----	----	0.40	—0.98	0.30	4.0	2	----	----	----	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	26.2	------	54	6	— 7	17	37	------	------	------	----	----	10	6	12	nw.	John T. Ridler
Osage	Mitchell	1,163	----	23.4	------	48	8	— 9	2	32	0.70	------	0.36	7.0	6	----	----	----	nw.	W. G. Mee.
Pocahontas	Pocahontas	1,248	21	23.8	+ 4.1	49	24	—11	2	32	0.67	—0.45	0.15	4.9	6	14	4	10	se.	F. E. Hronek
Postville	Clayton	1,180	26	24.0	+ 5.7	51	6	— 8	27	30	0.92	—0.22	0.40	4.0	6	6	9	13	nw.	F. L. Williams
Rock Rapids	Lyon	1,358	26	22.8	+ 4.9	45	24	—16	2	28	0.53	—0.15	0.16	4.1	6	14	5	9	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	23.4	+ 4.9	49	6	—16	2	30	0.45	—0.55	0.15	4.5	4	13	8	7	nw.	J. W. Dow
Sioux Center	Sioux	1,426	26	----	----	----	----	----	----	----	0.42	—0.55	0.22	2.0	2	----	----	----	----	J. de Ruyter
Spencer	Clay	1,319	11	23.6	+ 5.1	52	24	—16	2	33	1.22	+0.31	0.50	6.5	5	7	13	8	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	26.1	+ 5.7	51	24	0	1†	33	0.23	—0.76	0.18	2.5	2	16	4	8	se.	Geo. H. Fracker
Washta	Cherokee	1,157	27	24.2	+ 3.4	47	24	—10	2	30	0.20	—0.74	0.10	2.0	2	11	9	8	nw.	H. L. Felter
Waterloo	Black Hawk	854	42	27.2	+ 6.3	56	6	— 8	17	41	0.45	—0.73	0.22	3.4	5	13	2	13	se.	R. B. Slippy
Waverly	Bremer	936	29	24.9	+ 4.9	50	4†	— 8	17	37	0.39	—0.82	0.18	3.6	4	6	11	11	nw.	D. H. Murphy
West Bend	Palo Alto	1,197	32	23.5	+ 4.3	48	6†	—14	2	32	0.12	—0.86	0.08	1.5	2	6	12	10	nw.	Jos. Dorweiler
Means and extremes		------	----	24.4	+ 5.3	57	6	—16	2	45	0.58	—0.48	0.60	4.5	4	10	7	11	nw.	
Central Division																				
Ames	Story	926	48	29.0	+ 6.5	60	4	— 1	27	38	0.42	—0.52	0.30	0.7	4	11	5	12	n.	Iowa State College
Audubon	Audubon	1,297	30	27.3	+ 5.8	63	20	—11	2	40	0.04	—0.99	0.02	0.4	2	9	12	7	nw.	Geo. Kibby
Baxter	Jasper	998	25	28.8	+ 5.9	59	6	— 4	27	35	0.25	—0.77	0.20	0.5	2	10	9	9	s.	Henry Geise
Belle Plaine	Benton	866	35	29.3	+ 6.4	59	6	— 3	27	37	0.36	—1.24	0.21	2.0	4	8	10	10	s.	O. C. Burrows
Boone	Boone	1,134	20	28.2	+ 4.9	60	4	— 6	27	42	0.05	—0.95	0.05	T.	1	10	9	9	s.	C. F. Henning
Carroll	Carroll	1,265	35	27.7	+ 5.8	58	20	— 9	2	36	0.04	—1.02	0.04	0.5	1	19	1	8	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	29.2	+ 5.4	61	6	— 4	27	43	0.70	—0.70	0.53	1.5	4	11	5	12	nw.	J. T. Wurster
Clinton	Clinton	595	52	30.4	+ 5.8	57	8	— 5	17	42	2.16	+0.20	1.20	3.5	7	13	5	10	w.	Dr. A. P. Bryant
Davenport	Scott	580	54	30.7	+ 5.8	58	8	2	27	33	1.94	+0.44	1.38	1.6	9	7	6	15	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	600	----	31.0	------	59	8	0	27	37	1.75	------	1.18	1.2	7	----	----	----	----	Rex Shriver
Denison	Crawford	1,171	31	26.6	+ 4.2	58	20	—11	2	34	0.21	—0.73	0.09	1.5	4	14	8	6	nw.	V. L. Byers
Des Moines	Polk	861	47	30.7	+ 7.0	60	4	4	27	34	0.50	—0.65	0.46	0.4	3	8	7	13	n.	U. S. Weather Bureau
Fairport	Muscatine	567	4	31.8	------	57	8	1	27	31	2.36	------	1.11	0.7	6	7	6	15	n.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	26.0	+ 3.7	53	20	—10	2	40	0.35	—0.50	0.10	3.5	6	14	3	11	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	30.0	+ 6.8	60	6	— 3	27	34	0.29	—0.93	0.09	1.5	6	10	9	9	nw.	Paul P. Meyers
Grundy Center	Grundy	976	34	27.3	+ 5.3	59	6	— 7	27	39	0.82	—0.12	0.60	7.2	3	8	5	15	n.	W. D. Callaway.
Guthrie Center	Guthrie	1,077	30	29.8	+ 6.2	62	20	— 6	2	38	0.27	—0.84	0.19	T.	3	17	4	7	sw.	E. L. Nesselroad
Harlan	Shelby	1,192	26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Nels Bisgard
Iowa City	Johnson	733	65	29.2	+ 5.0	52	6†	— 4	17	40	1.04	—0.47	0.49	2.2	7	10	7	11	s.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	26.1	+ 5.1	55	6	— 5	27	35	0.65	—0.98	0.25	4.5	6	9	9	10	nw.	J. B. Parmelee
Jefferson	Greene	1,052	26	27.7	+ 5.2	56	6	— 7	2	34	0.05	—0.98	0.05	0.5	1	12	7	9	nw.	W. I. Lyon
Little Sioux	Harrison	1,040	20	29.0	+ 5.1	57	20†	—10	2	32	0.36	—0.92	0.16	3.0	3	11	11	6	nw.	H. W. Kerr
Logan	Harrison	1,035	58	30.2	+ 5.2	60	20	— 8	2	35	0.09	—1.10	0.09	T.	1	16	3	9	sw.	Mary Jean Stern
Marshalltown	Marshall	947	33	29.0	+ 5.4	59	6	— 2	27	34	0.27	—0.94	0.11	2.0	6	14	5	9	nw.	C. C. Pigman
Monroe	Jasper	922	13	30.4	+ 5.8	59	4	— 2	27	35	0.47	—0.73	0.22	2.0	4	15	3	10	s.	J. A. Dibel
Olin	Jones	760	26	28.8	+ 6.7	55	6†	— 4	17	43	1.24	—0.41	0.50	------	3	11	7	10	sw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	27.7	+ 4.5	53	24	—10	2	28	1.10	—0.18	0.30	9.0	4	18	4	6	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	30.6	+ 7.1	66	6	— 3	27	44	0.07	—1.25	0.07	0.9	1	16	5	7	se.	Eugene N. Hastie.
Rockwell City	Calhoun	1,134	29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	A. W. McIsaac
Sac City	Sac	1,278	49	25.9[b]	+ 4.6	57[b]	20	—10[b]	2	35[b]	0.35	—0.76	0.20	3.5	4	----	----	----	s.	F. P. Kessler
Sioux City	Woodbury	1,135	36	27.0	+ 6.0	52	24	— 9	2	28	0.17	—0.66	0.05	1.2	8	8	9	11	nw.	U. S. Weather Bureau
Tipton	Cedar	807	26	29.1	+ 5.3	55	8	— 6	17	38	2.06	+0.57	0.94	2.3	8	6	9	13	s.	Chas. H. Obye
Toledo	Tama	856	31	29.0	+ 6.0	61	6	— 5	27	38	0.21	—0.92	0.15	1.0	2	16	5	7	nw.	I. F. Giger
Waukee	Dallas	1,039	22	29.8	+ 6.7	62	6	— 4	27	38	0.50	—0.73	0.34	1.3	4	12	7	9	nw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	25.8	+ 4.6	56	4†	— 7	2	44	0.21	—0.93	0.13	1.5	2	10	7	11	nw.	Frank A. Bonebright
Williamsburg	Iowa	765	9	28.3	+ 5.1	54	6	—11	17	41	0.68	—0.62	0.40	0.7	5	15	7	6	nw.	Dr. F. C. Schadt
Means and extremes		------	----	28.7	+ 5.8	66	6	—11	2†	44	0.65	—0.61	1.38	1.8	4	12	6	10	nw.	

Climatological Data for February, 1925—Continued

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		
Southern Division																				
Afton	Union	1,212	31	31.9	+ 6.3	65	6	0	27	38	0.71	—0.46	0.41	1.0	4	12	7	9	sw.	S. R. Brown
Albia	Monroe	959	27	32.1	+ 6.7	62	20	1	27	38	1.23	—0.13	0.85	0.1	5	14	5	9	ne.	O. E. McBride
Atlantic	Cass	1,164	34	30.8	+ 6.9	65	20	— 5	2	42	0.06	—1.08	0.06	T.	1	11	11	6	nw.	Mrs. Minnie Cunningham
Bonaparte	Van Buren	563	34	32.4	+ 5.6	57	7	4	27	32	1.18	—0.08	0.73	1.2	6	15	3	10	s.	B. R. Vale
Burlington	Des Moines	544	29	33.8	+ 5.1	58	7†	4	27	26	3.09	+1.88	1.60	3.5	8	11	7	10	ne.	John W. Donnelly
Centerville	Appanoose	1,013	20	33.8	+ 6.7	62	7	2	27	35	1.12	—0.38	0.63	0.7	7	12	8	8	nw.	Thomas Wood
Chariton	Lucas	1,042	30	32.4	+ 7.3	61	6†	2	27	37	1.35	+0.22	0.66	1.0	4	14	4	10	nw.	C. C. Burr
Clarinda	Page	1,009	35	32.9	+ 5.1	61	6	2	2	39	1.95	+0.81	1.90	------	3	15	8	5	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Corning	Adams	1,117	33	33.0	+ 7.9	62	20	3	27	41	1.02	—0.16	1.02	T.	1	15	8	5	sw.	Jerome Smith
Corydon	Wayne	1,101	32	33.0	+ 6.8	65	8	2	27	37	1.33	—0.07	0.67	0.4	7	10	9	9	nw.	Mrs. May Miller King
Creston ††	Union	1,312	20	31.8	+ 7.1	62	20	— 1	27	34	T.	—1.34	T.	T.	0	19	0	9	s.	J. W. Goodsell.
Cumberland (near)	Cass	1,225	26	------	------	------	------	------	------	------	T.	—1.09	T.	T.	0	12	9	7	nw.	Carl E. Pollock
Earlham	Madison	1,126	23	30.9	+ 7.6	63	20	— 3	26	41	0.06	—1.35	0.06	T.	1	17	5	6	se.	Geo. Phillips
Fairfield	Jefferson	780	41	31.1	+ 5.6	58	7†	2	17†	36	2.76	+1.17	1.48	1.9	8	13	3	12	n.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	31.5	+ 5.0	60	20	2	1	34	1.97	+1.10	1.95	0.2	3	9	12	7	nw.	Dr. Geo. Mogridge
Indianola	Warren	972	34	30.7	+ 6.1	62	20	— 2	17	40	0.51	—0.70	0.40	5.0	2	13	8	7	s.	Seth F. Shenton
Keokuk	Lee	614	54	33.6	+ 5.3	62	8	5	27	31	1.71	+0.17	0.60	6.7	8	8	7	13	s.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	32.6	+ 5.3	60	7	4	27	33	1.10	—0.37	0.58	4.5	6	7	12	9	se.	J. H. Landes
Knoxville	Marion	920	30	30.8	+ 5.1	60	4†	0	17†	45	0.51	—0.74	0.16	2.5	4	14	5	9	nw.	W. J. Casey.
Lacona	Warren	------	26	------	------	------	------	------	------	------	0.63	—1.05	0.23	4.0	5	11	10	7	------	J. B. Alter
Lamoni	Decatur	1,123	18	32.7	+ 5.3	63	6	2	27	36	1.14	—0.10	0.38	0.5	7	14	3	11	sw.	Roy L. Roberts
Lenox	Taylor	1,250	30	31.7	+ 6.2	60	6	2	2	37	1.13	+0.14	0.94	1.2	6	14	5	9	nw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	32.4	+ 6.0	60	6†	2	27	36	0.96	—0.34	0.42	2.3	4	11	9	8	s.	Alex Maxwell
Mt. Pleasant	Henry	729	44	32.8	+ 6.3	59	7	3	27	31	1.56	+0.12	1.15	1.5	5	11	6	11	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	32.0[b]	+ 7.4	58[b]	6	— 6[b]	2	40[b]	0.72	------	0.72	------	1	------	------	------	n.	M. E. Gray
Oskaloosa	Mahaska	835	49	30.5	+ 5.8	58	4	— 1	17	36	0.71	—0.44	0.45	1.2	5	13	4	11	nw.	Roy R. Robinson
Ottumwa	Wapello	649	30	33.4	------	58	4	4	27	37	1.98	+0.53	1.26	T.	6	11	3	14	nw.	C. L. Mikesh
Pella	Marion	877	32	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Red Oak (near)	Montgomery	1,030	----	------	------	------	------	------	------	------	1.17	------	1.17	T.	1	11	10	7	s.	B. R. Bridge
Sigourney	Keokuk	790	29	31.4	+ 6.7	55	8†	— 1	17	35	0.87	—0.53	0.53	0.8	5	15	2	11	nw.	W. E. Utterback
Stockport	Van Buren	745	23	32.1	+ 6.4	57	6†	3	27	34	2.32	+0.93	1.39	3.0	6	13	4	11	s.	C. L. Beswick
Thurman	Fremont	975	28	32.8	+ 7.0	57	20†	— 3	2	32	1.30	—0.08	1.30	T.	2	8	12	8	nw.	C. R. Paul
Tingley	Ringgold	1,275	----	32.6	------	61	6	4	27	33	1.05	------	0.78	0.6	3	10	11	7	sw.	James A. Verploegh
Washington	Washington	769	43	32.3	+ 6.8	58	8†	0	27	31	2.20	+0.91	0.88	1.0	5	15	1	12	ne.	D. D. Sherman
Wescott (near)	Lee	------	3	32.6	------	55	5†	5	27	35	2.60	------	0.75	1.7	7	15	4	9	nw.	Lester J. Larson
Winterset	Madison	1,129	34	31.6	+ 6.8	64	20	0	27	39	0.35	—0.73	0.25	0.5	3	18	4	6	nw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	31.6	+ 6.1	61	20	— 4	2	29	0.61	—0.15	0.52	1.0	4	8	14	6	nw.	U. S. Weather Bureau
Means and extremes	----------	------	----	32.2	+ 6.4	65	6†	— 6	2	45	1.24	—0.05	1.95	1.5	4	12	7	9	nw.	
State means and extremes	----------	------	----	28.4	+ 5.8	66	6	—16	2	45	0.82	—0.38	1.95	2.6	4	11	7	10	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.

MISCELLANEOUS PHENOMENA

Fogs: 3d, 4th, 5th, 6th, 7th, 8th, 9th, 14th, 20th, 21st, 22d, 23d, 24th.

Hail: 22d.

Halos (lunar and solar): 3d, 4th, 6th, 7th, 12th, 16th, 18th, 19th, 26th, 27th.

Haze: 20th.

Parhelia: 26th, 27th.

Sleet: 1st, 3d, 8th, 9th, 10th, 14th.

Thunderstorms: 8th, 9th, 20th, 21st, 22d, 23d.

Winds (high): 8th, 9th, 10th, 18th, 20th, 25th, 26th, 28th.

THE WINTER OF 1924-1925

The mean temperature for the three winter months was 21.1°, which is 0.6° lower than the normal, for the State, and 3.3° lower than the mean of 1923-1924. The winter was the coldest since the winter of 1919-1920, which had a mean temperature of 18.6°. The highest temperature reported was 66°, at Perry on February 6, and the lowest was —33°, at Washta, on December 28.

The average monthly precipitation for the State was 1.00 inch, and the average total precipitation was 3.01 inches, or 0.41 inch less than the normal. The average total snowfall was 14.9 inches, or 5.6 inches less than the normal.

The average number of days with 0.01 inch or more of precipitation was 15, or 1 less than the winter of 1923-1924. The average number of clear days was 40, partly cloudy 20, and cloudy 30, as compared with 46 clear days, 18 partly cloudy days and 27 cloudy days during the winter of 1923-1924.

RIVERS

The Mississippi rose gradually till about the middle of the month and thereafter there was a general falling tendency till the end of the month, though there was considerable fluctuation due to ice conditions. There were breaks in the ice in the upper reaches but it continued frozen generally though the thickness of the ice diminished greatly as the month progressed. The backwater from the Keokuk dam was free of ice during the greater portion of the month but it froze again during the cold spell at the end of the month. There was a gradual rise in the Missouri River till the latter part of the third week, with considerable fluctuation, and a fall during the rest of the month. The ice was reduced materially during the month and no menacing gorges were produced. Low stages prevailed on all interior rivers with very slight changes and most of the streams in the southern half of the State were free of ice during most of the month.

Daily Rrecipitation for February, 1925

Stations	Drainage Basin	Day of Month																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	To. tals
Northern Division																													
Algona	Des Moines	.32									.24					.16			.16							.08				0.96
Allison (near)	Cedar	.10	T.						.04	.29					T.	.10	.15			.10			T.			T.				0.78
Alta	Raccoon	.06							.12		.09				T.	.05	.03			.08					.07					0.50
Alton	Floyd	.15							T.		.05				T.	.10				.10		T.	T.		.10	T.			T.	0.50
Belmond	Iowa	.22							T.	T.					.04	.07	.14			.05						T.	T.			0.52
Britt	Iowa	.32							.10						T.	T.	T.			.16						T.				0.58
Charles City***	Cedar	.18	T.	T.					.28						T.	.09			T.	.02			T.			T.			T.	0.57
Cherokee	Little Sioux	.06							T.		.06				T.	.02				.02			T.		T.	T.			T.	0.16
Decorah	Mississippi	.24							.50							T.	T.	.04												0.78
Dubuque***	Mississippi	.06	T.	.02					.44	.20					T.	.13	.06	T.		.T	.06	.01	.06	.03		T.			.01	1.08
Estherville	Des Moines	.20							.10		.30					.05				.15						.15				0.95
Fayette	Mississippi	.13							.14								.18			T.						T.				0.45
Forest City	Cedar	.40									.10				T.	.02				.10						T.			T.	0.62
Hampton	Cedar	.10							.13							.08	.07			T.						T.				0.38
Humboldt	Des Moines	.22							T.		T.				T.	.04				.10										0.36
Independence	Wapsipinicon	.10															.25	T.					T.							0.35
Inwood	Big Sioux	.06							T.		.01			T.		.05				.09			T.		.12	T.			T.	0.33
Le Mars	Floyd	.08							T.		T.				T.	T.	T.		T.						T.	T.			T.	0.08
Mason City	Cedar	.16	.29				T.		T.							.02			T.	.06					T.	T.	T.		T.	0.53
Milford (near)	Little Sioux	.50							T.		.45				T.	.25				.28					T.	T.			T.	1.48
New Hampton	Wapsipinicon	.20							T.	.18					T.	.10	.10			T.						T.				0.58
Nora Springs	Cedar	.46						.06	.12						T.	.06			.01	.11						T.				0.82
Northwood	Cedar	.30							T.							.10										T.				0.40
Oelwein	Wapsipinicon																													**
Osage	Cedar	.36							.05	.09	T.					.08		T.	.08	.04						T.	T.	T.		T.	0.70
Pocahontas	Des Moines	.15							.05		.10				T.	.08				.15						.14				0.67
Postville	Mississippi	.15	.15						T.	.40					T.	.05	.05		T.	T.			.12							0.92
Rock Rapids	Big Sioux	.15					T.		.05		.05					05				.16				T.	.07	T.			T.	0.53
Sanborn	Floyd	.15									.05				T.	.10				.15					T.					0.45
Sioux Center	Floyd	.20													T.										.22	T.	T.	T.		0.42
Spencer	Little Sioux	.40							.07							.10				.15						.50				1.22
Storm Lake	Raccoon										.18				T.	.05										T.				0.23
Washta	Little Sioux	.10									.10									T.						T.				0.20
Waterloo	Cedar	.12							.01	.10						.10	.12			T.										0.45
Waverly	Cedar	.18								.03					T.	.08	.10													0.39
West Bend	Des Moines								T.		T.				T.	.04				.08										0.12
Central Division																													
Ames	Skunk	T.	.03						.05	.30	T.						.04			T.										0.42
Audubon	Nishnabotna										.02						.02						T.							0.04
Baxter	Skunk	T.	T.						.20								.05					T.	T.							0.25
Belle Plaine	Iowa	T.	T.	T.					.21	T.					T.		.06					.T.	.02	T.		T.			.07	0.36
Boone	Des Moines	T.	T.						T.	.05	T.						T.			T.						T.				0.05
Carroll	Raccoon																.04													0.04
Cedar Rapids	Cedar	T.							.51	.02							.06						T.							0.76
Clinton	Mississippi	.01							.12	.50							.18					.15	*	1.20		T.				2.16
Davenport***	Mississippi	.01							.28	.12	T.						.08				.04	.02	.34	1.04		T.			.01	1.94
Davenport (No. 2)	Mississippi	.01							.19	.05							.06					.06	.20	1.18						1.75
Denison	Missouri	T.							.02	.03					T.		.09						.07							0.21
Des Moines***	Des Moines	T.	T.						.46		T.					.01	.03						T.						T.	0.50
Fairport	Mississippi						T.		.31	.55							.05					.15	.19	1.11						2.36
Fort Dodge	Des Moines	.05							.07	T.					T.	.05	.03			.10			.05							0.35
Grinnell	Iowa	.02					T.		.05	.09							.05	T.				T.	.01		T.		T.		.07	0.29
Grundy Center	Cedar	.12	T.							.10							.60	T.		T.						T.				0.82
Guthrie Center	Raccoon								.19	.04	T.						T.						.04							0.27
Harlan	Nishnabotna																													
Iowa City	Iowa	T.							.28	.21							.11					.06	.03	.31					.04	1.04
Iowa Falls	Iowa	.07	.08						T.	.20					T.	.10	.15			.05						T.				0.65
Jefferson	Raccoon	T.							T.	T.	T.				T.		.05													0.05
Le Claire‖‖	Mississippi																													
Little Sioux	Little Sioux										.16						.08						.12							0.36
Logan	Missouri										T.												.09							0.09
Marshalltown	Iowa	.02	.03						.05	.05					T.	T.	.11			T.			.01			T.	T.		T.	0.27
Monroe	Des Moines	T.	T.						.22		T.											.06	.03			T.			.16	0.47
Muscatine‖‖	Mississippi																													
Olin	Wapsipinicon																				.40			.34					T.	1.24
Onawa	Missouri	.30							.50		.30						.30						.20							1.10
Perry	Raccoon								T.		T.						.07													0.07
Rockwell City	Raccoon																													
Sac City	Raccoon	.20									.05				T.	.05				.05			T.			T.				0.35
Sioux City***	Missouri	.03						.01	T.	.04	.01				T.	.02	.02			T.			.02		.02	T.			T.	0.17
Tipton	Cedar	.01							.42	.52							.20					.26	.15	.48					.02	2.06
Toledo	Iowa	T.							T.	.15							.06						T.							0.21
Van Meter‖‖	Raccoon								.40			T.						.01													0.41
Waukee	Raccoon	T.	T.				T.	T.	.10	.34	T.					T.	.03						.03				T.		T.	0.50
Webster City	Des Moines	T.	.08						T.							T.				.13										0.21
Williamsburg	Iowa								.40													.02	.03	.16					.07	0.68

Daily Precipitation for February, 1925—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	
Southern Division																													
Afton	Grand								.05	.15							T.							.41					.10	0.71
Albia	Des Moines	T.							.24	.09	.01						T.					T.	.04	.85					T.	1.23
Atlantic	Nishnabotna								T.		T.						T.						.06							0.06
Bonaparte	Des Moines	T.							.27	.46	.15						T.					.19	.06	.05						1.18
Burlington	Mississippi	T.	T.						.91	.31	.12						.12				.12	.51	.68	.92						3.69
Centerville	Chariton	T.							.36	.27	.01						.01				T.	.04	.04	.39						1.12
Chariton	Chariton								.66	.10	.11						T.						.48						T.	1.35
Clarinda	Nodaway																T.						.40	1.50					.05	1.95
Columbus Jct.	Iowa																													
Corning	Nodaway									T.													1.02						T.	1.02
Corydon	Chariton	T.							.60	.07	.25						T.				.01	.05	.01	.34					T.	1.33
Creston	Missouri																						T.							T.
Cumberland (near)	Nodaway								T.		T.						T.						T.	T.					T.	T.
Earlham	Des Moines		T.						T.	.06	T.						T.												T.	0.06
Fairfield	Skunk	.02							.38	.48	.10						.02				T.	.28	.08	1.40						2.76
Glenwood	Missouri										.02												.75	1.20						1.97
Indianola	Des Moines								T.	T.							.40						T.						.11	0.51
Keokuk***	Mississippi	T.							.55	.05	.37						.02				.34		.05	.23		T.			.10	1.71
Keosauqua	Des Moines	T.							.25	.33	.18						T.				T.	.21	.11	.02						1.10
Knoxville	Des Moines								.16	T.	.10						.10												.15	0.51
Lacona	Des Moines								.12	.11							.10							.10					.20	0.63
Lamoni	Grand								.38	.27	.02						T.				.01	.11		.32					.05	1.16
Lenox	Missouri		T.						.05	.05	.02						.02						T.	.94					.05	1.13
Mt. Ayr	Grand	T.							.18	.23	T.						T.						T.	.42					.13	0.96
Mt. Pleasant	Skunk	T.							.53	.62	.09						T.					.17	.15							1.56
Oakland	Nishnabotna								T.		T.						T.							.72						0.72
Oskaloosa	Des Moines	T.	T.					T.	.45	T.							.01					T.	.05	.12		T.			.08	0.71
Ottumwa	Des Moines	T.							.44	.20	.02						T.					.02	.04	1.26						1.98
Pella	Skunk																													
Red Oak (near)	Missouri																							1.17					T.	1.17
Sigourney	Skunk	T.							.53	T.	.03						.05					.06	T.	.20					T.	0.87
Stockport	Skunk	T.							.30	.38	.20						T.					.05	.09	1.30						2.32
Thurman	Missouri								T.	T.	T.						T.						.61	.69		T.			T.	1.30
Tingley	Platt								.23								T.							.78					.04	1.05
Washington	Skunk	T.							.42	.62	T.						T.				.18		.10	.88						2.20
Wescott (near)	Mississippi								.60	.35	.15						.25				.35		.15	.75						2.60
Winterset	Des Moines								.05	.25							T.												.05	0.35
Omaha, Neb.***	Missouri							T.	.01		.06						.02						.52			T.			T.	0.61

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.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level)					Relative Humidity, %					Wind					Sunshine	
						Mean							Maximum				
	Mean	Highest	Date	Lowest	Date	7 a. m.	12 Noon‡	7 p. m.	Lowest	Date	Total movement	Average hourly velocity	Miles	From	Date	Per cent of possible	Departure from normal
Charles City	30.04	30.48	27	29.57	24	86	69	81	39	27	4,733	7.0	26	nw.	25	44	—10
Davenport	30.03	30.50	27	29.56	9	90	73	76	42	11	5,259	7.8	30	nw.	25	37	—17
Des Moines	30.02	30.53	27	29.56	24	84	64	67	41	†11	4,906	7.3	31	sw.	3	56	0
Dubuque	30.01	30.48	27	29.56	9	84	66	74	39	27	4,731	7.0	31	nw.	26	45	— 8
Keokuk	30.04	30.52	27	29.51	23	81	59	67	30	28	5,237	7.8	29	w.	8	50	— 5
Sioux City	30.06	30.54	11	29.61	24	85	71	76	42	11	8,102	12.1	46	nw.	25	53	— 4
Omaha, Neb.	30.04	30.52	11	29.51	7	82	63	68	31	11	6,300	9.4	33	nw.	†23	54	— 3
Means and extremes	30.03	30.54	11	29.51	†7	85	66	73	31	11		8.3	46	nw.	25	48	— 7
Normals and records	30.10	§31.07	1918	*28.69	1902	84	76	¶13	22d	1880		9.3	¶69	nw.	1917	55	

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

ERRATA

In the June, 1924 report, page 51, the following figures should be substituted for those appearing for Charles City in the table headed "Northern Division."

	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Charles City	13.7	17.1	30.7	46.4	57.8	66.5	72.3	69.1	61.0	48.6	33.0	20.4	44.7

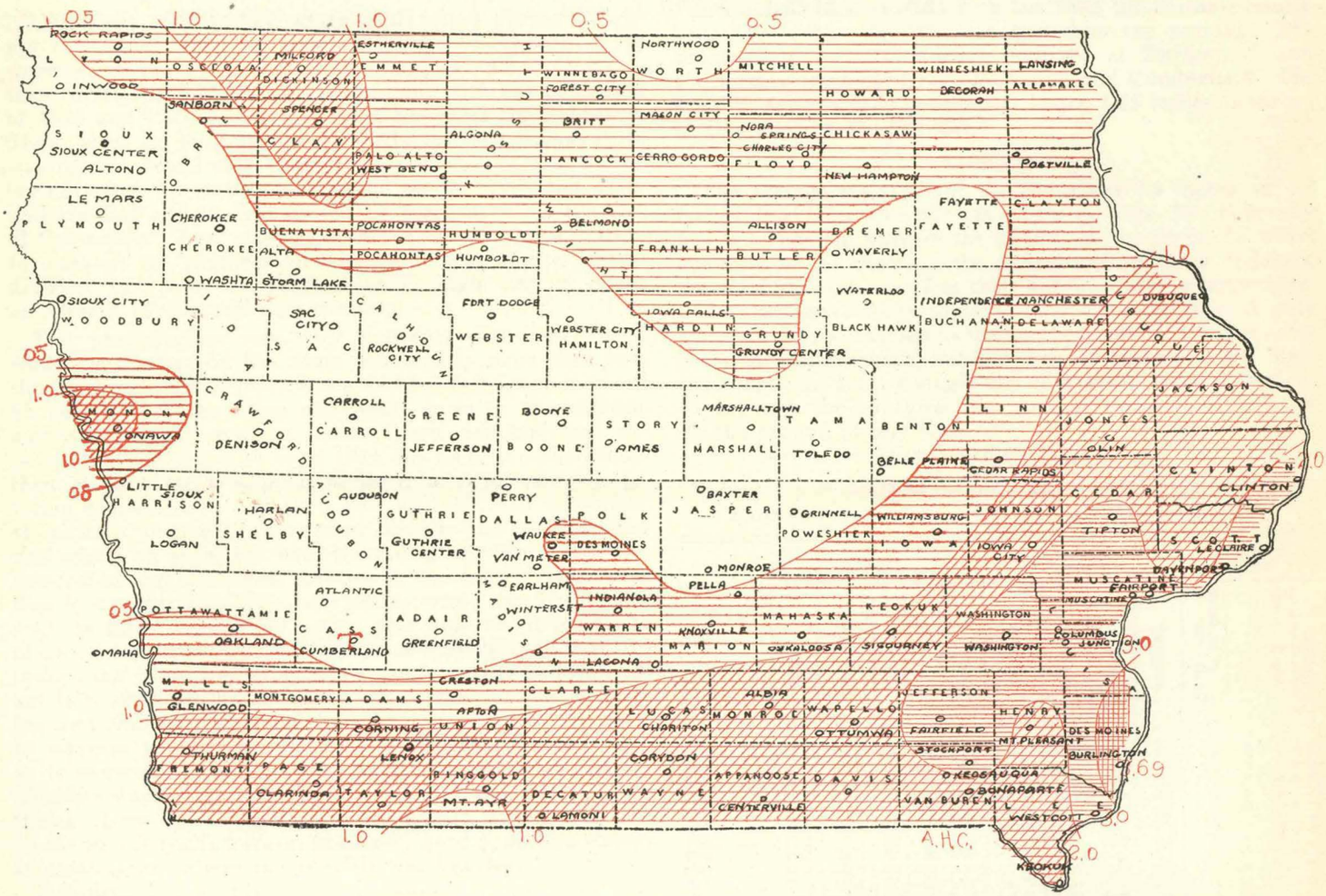
In this table the mean for January should be 15.4, instead of 15.3°.

Daily Maximum and Minimum Temperature for the Month of February, 1925

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	Mean
Northern Division																														
Algona	Maximum	15	12	37	40	42	40	43	40	31	28	30	37	32	35	26	24	23	26	33	44	43	35	35	44	42	16	21	37	32.5
	Minimum	0	—10	10	22	25	25	33	29	24	16	11	20	14	16	15	8	4	12	26	16	16	25	25	24	15	— 1	— 4	20	15.6
Alta	Maximum	9	14	37	44	43	46	43	36	31	29	32	35	27	32	25	17	27	34	41	46	33	33	33	49	33	12	25	35	32.2
	Minimum	2	— 8	12	29	30	34	31	29	25	17	12	22	14	16	15	5	7	14	18	17	26	27	19	27	9	0	— 2	15	16.5
Alton	Maximum	9	12	38	44	42	45	43	37	32	32	32	36	30	32	24	16	28	34	38	44	35	36	35	39	34	14	26	35	32.2
	Minimum	0	—14	12	21	22	23	32	30	26	20	15	24	15	18	15	4	10	18	17	30	26	26	20	28	14	0	— 1	20	16.8
Belmond	Maximum	13	14	37	47	47	50	47	41	31	28	30	36	29	32	24	21	23	38	31	43	39	32	34	48	37	12	21	38	33.0
	Minimum	— 2	—10	13	20	27	28	31	30	24	20	13	17	15	15	8	0	— 5	6	13	15	26	25	25	25	11	— 1	— 6	18	14.3
Charles City	Maximum	16	19	38	48	47	51	49	44	32	28	29	36	25	33	23	19	25	37	31	44	37	34	32	44	32	7	19	38	32.8
	Minimum	4	1	19	16	28	26	32	32	26	17	14	20	15	15	11	1	1	9	12	17	25	28	29	27	6	— 1	— 5	13	15.6
Decorah	Maximum	16	24	35	38	43	45	45	46	34	28	27	36	27	33	26	22	31	23	33	41	38	36	32	38	36	13	16	37	32.1
	Minimum	1	10	17	10	27	23	22	32	25	19	12	24	15	11	9	5	6	— 2	3	17	23	24	27	27	12	3	— 7	12	14.5
Dubuque	Maximum	24	27	33	50	51	56	46	55	36	35	30	39	31	38	31	24	23	41	34	45	47	35	35	43	38	12	18	36	36.2
	Minimum	12	16	19	20	30	30	30	36	29	17	17	22	20	17	18	4	0	8	15	25	33	32	30	30	12	2	— 2	15	19.2
Forest City	Maximum	15	22	38	48	43	48	43	42	31	27	31	35	32	35	28	22	27	35	32	41	38	34	35	45	41	15	20	35	33.5
	Minimum	— 2	—11	11	19	29	26	31	30	23	18	11	18	12	14	9	3	3	20	12	16	24	24	25	24	13	— 3	— 7	14	14.5
Independence	Maximum	21	23	38	49	49	56	55	50	41	32	31	42	40	36	35	29	23	48	42	47	45	38	34	44	44	34	24	38	38.9
	Minimum	6	12	15	18	30	29	28	31	28	27	15	17	16	11	12	12	— 6	3	12	22	22	28	28	23	22	2	— 4	11	16.8
Inwood	Maximum	7	10	40	47	44	42	40	35	31	30	34	35	24	31	24	16	26	34	37	41	31	35	34	45	29	13	28	34	31.3
	Minimum												19	6	12	9	0	6	11	12	20	25	25	20	28	12	0	— 3	12	12.6[k]
Mason City	Maximum	13	15	38	48	44	52	43	40	32	28	28	35	30	32	24	24	24	36	31	43	38	35	35	48	39	12	21	35	33.0
	Minimum	6	—11	15	11	27	25	32	31	24	20	12	20	13	14	8	4	11	10	11	14	25	22	26	25	12	— 2	— 7	20	14.9
Milford (near)	Maximum	27	12	38	42	42	49	46	38	28	28	35	36	27	31	22	18	27	31	36	41	35	34	35	50	33	12	24	32	32.5
	Minimum	— 4	—15	10	20	23	27	30	27	22	14	9	20	11	14	10	1	3	12	11	13	24	23	11	25	11	— 2	12	17	13.5
New Hampton	Maximum	16	21	37	46	48	53	50	45	33	28	30	31	31	32	30	20	26	36	31	43	38	33	32	40	37	15	17	38	33.5
	Minimum	2	7	12	17	30	28	33	32	25	20	13	17	13	12	8	5	— 1	7	8	20	28	26	27	21	15	— 2	— 8	15	15.4
Northwood	Maximum	17	15	----	47	40	45	42	38	----	25	25	----	----	----	----	----	24	----	----	----	----	----	----	44	34	10	18	33	------
	Minimum	----	— 9	----	----	----	----	----	30	----	15	11	----	----	----	10	1	5	----	----	----	----	----	----	----	----	10	— 3	— 8	11	------
Pocahontas	Maximum	10	14	40	42	45	48	42	38	31	30	33	36	31	33	25	20	25	35	34	38	38	34	36	49	41	15	25	39	33.1
	Minimum	— 1	—11	12	12	23	22	28	30	25	18	13	19	15	18	14	5	4	12	15	11	25	26	21	25	9	0	— 3	20	14.5
Postville	Maximum	17	22	34	46	48	51	46	49	35	30	28	38	30	34	30	21	25	30	31	42	37	32	32	39	38	14	15	36	33.2
	Minimum	3	11	14	16	29	25	28	33	26	17	12	15	10	11	8	3	0	6	5	18	28	26	27	26	12	— 1	— 8	12	14.7
Central Division																														
Belle Plaine	Maximum	23	23	47	54	56	59	46	50	39	35	35	47	35	39	33	33	32	51	36	54	45	36	37	49	42	19	24	39	39.9
	Minimum	8	10	19	20	26	27	30	36	29	23	17	16	18	13	12	9	— 1	14	14	29	28	32	30	29	17	4	— 3	18	18.7
Boone	Maximum	19	19	44	60	55	58	54	48	35	33	36	45	32	38	33	26	34	47	43	55	48	36	37	54	42	18	24	41	39.8
	Minimum	4	4	18	18	23	23	25	33	27	24	16	14	18	9	9	12	0	12	11	18	30	26	29	22	18	4	— 6	21	16.5
Carroll	Maximum	15	17	42	50	52	57	50	42	36	31	33	43	30	36	32	24	32	43	46	58	46	37	36	56	45	17	23	41	38.2
	Minimum	0	— 9	13	25	29	29	30	31	26	20	16	22	16	15	13	9	4	17	18	22	28	27	23	25	16	3	— 3	17	17.2
Cedar Rapids	Maximum	27	30	40	54	59	61	45	57	41	39	36	46	39	41	40	35	32	52	39	54	42	40	40	48	43	24	24	42	41.8
	Minimum	8	12	17	15	24	25	25	35	28	21	16	14	17	11	11	9	— 2	9	11	18	33	30	30	27	15	3	— 4	9	16.7
Davenport	Maximum	29	28	36	49	50	54	51	58	40	33	32	38	33	39	30	30	27	49	34	52	51	38	38	48	43	16	21	38	39.1
	Minimum	15	19	20	25	34	32	31	40	30	20	19	21	23	20	22	9	5	16	20	28	37	32	33	31	15	7	2	18	22.3
Des Moines	Maximum	21	22	47	60	56	60	52	47	33	33	37	46	33	37	37	23	35	50	45	56	48	38	37	56	40	18	25	38	40.4
	Minimum	7	8	21	26	33	28	30	32	29	25	20	23	21	18	21	11	7	20	22	27	30	30	27	27	14	8	4	19	21.0
Ft. Dodge	Maximum	15	17	40	50	50	52	49	47	33	32	33	39	34	34	32	24	29	49	36	53	47	35	35	52	46	19	25	40	37.1
	Minimum	— 2	—10	14	22	24	24	29	30	24	20	12	18	14	15	11	7	0	11	14	13	25	25	24	24	16	— 1	— 6	19	14.9
Grinnell	Maximum	20	21	47	57	56	60	53	49	36	33	33	45	40	37	36	33	32	49	41	56	49	37	35	53	53	27	24	38	41.1
	Minimum	6	7	18	23	29	29	29	34	26	26	16	18	17	14	15	13	3	16	16	24	26	28	30	27	23	3	— 3	18	19.0
Guthrie Center	Maximum	15	22	42	57	57	61	56	50	32	33	38	41	35	35	42	32	34	43	47	62	52	37	41	55	50	20	26	39	41.2
	Minimum	1	— 6	17	26	29	27	30	32	27	23	17	21	16	16	16	11	4	18	19	24	28	26	25	25	18	5	— 2	19	18.3
Iowa City	Maximum	26	29	37	50	50	52	47	49	39	35	33	40	33	37	37	32	30	49	39	52	45	41	37	44	38	25	22	38	38.8
	Minimum	10	15	20	20	27	27	27	38	30	20	18	17	20	13	15	12	— 4	9	16	25	36	32	30	30	24	6	0	16	19.6
Iowa Falls	Maximum	16	15	41	53	49	55	49	43	33	28	31	39	32	34	32	22	28	40	31	51	41	33	33	50	43	17	21	40	35.7
	Minimum	3	2	13	21	30	26	30	33	25	22	15	18	16	15	16	9	— 4	8	14	16	28	27	27	26	16	1	— 5	19	16.5
Little Sioux	Maximum	14	20	46	50	52	49	49	37	35	33	37	41	35	37	37	30	35	40	47	57	46	38	37	57	40	21	30	44	39.1
	Minimum	— 2	—10	16	25	23	25	27	31	30	22	10	24	19	20	17	10	5	20	22	25	28	30	28	30	19	7	3	23	18.8
Marshalltown	Maximum	19	21	45	58	54	59	48	47	34	31	33	44	32	37	34	24	30	46	36	55	42	36	34	54	47	18	22	38	38.5
	Minimum	6	7	18	24	30	28	29	34	27	23	17	20	17	17	15	11	2	18	18	25	31	28	29	28	18	3	— 2	21	19.4
Olin	Maximum	26	28	35	47	50	56	40	55	44	35	31	40	37	40	34	32	27	45	44	47	47	44	36	44	43	25	20	37	38.9
	Minimum	10	11	17	15	23	27	23	40	30	29	18	16	18	12	15	12	— 4	2	14	22	34	31	32	29	25	5	— 2	16	18.6
Sioux City	Maximum	11	19	44	50	45	47	44	34	32	31	35	36	28	35	27	20	31	36	44	50	35	37	34	52	28	15	29	37	34.5
	Minimum	0	— 9	18	31	27	27	32	29	26	22	17	26	18	22	15	8	12	23	24	27	28	29	26	28	13	3	5	20	19.5
Southern Division																														
Albia	Maximum	19	29	49	60	60	60	59	52	38	34	36	46	35	35	46	33	43	54	47	62	49	38	37	55	45	28	28	38	43.4
	Minimum	17	6	19	25	29	25	28	34	28	25	17	19	20	16	18	13	5	20	18	27	31	30	30	28	26	8	1	19	20.8
Atlantic	Maximum	16	21	44	46	50	53	51	48	38	41	37	42	40	42	43	40	33	47	48	65	49	46	41	56	50	26	26	40	42.1
	Minimum	1	— 5	16	23	28	26	28	32	28	22	20	22	20	20	17	12	8	22	18	23	28	29	27	28	20	9	1	20	19.4
Burlington	Maximum	28	29	37	50	51	51	58	58	53	34	33	38	34	39	44	41	34	49	41	54	52	43	40	51	49	29	26	41	42.4
	Minimum	16	18	22	28	36	32	34	49	31	30	18	18	24	19	27	21	8	25	23	28	41	35	35	32	28	9	4	18	25.3
Columbus Jct.	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	------
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	------
Corning	Maximum	25	41	47	50	54	61	65	49	59	45	40	49	38	36	36	41	46	49	54	62	51	42	40	57	46	24	29	35	45.4
	Minimum	4	11	13	25	27	26	30	33	32	26	19	21	21	20	12	14	7	18	22	21	29	30	30	29	20	10	3	20	20.5
Corydon	Maximum	23	28	48	58	58	58	59	65	37	32	33	44	36	37	46	43	40	51	46	60	48	40	38	57	56	28	26	36	44.0
	Minimum	9	6	18	21	32	28	34	34	29	27	18	20	22	18	22	18	9	24	21	29	30	32	31	29	26	9	2	17	22.0
Fairfield	Maximum	23	27	41	53	55	55	58	58	39	32	32	42	34	39	44	32	38	53	41	56	53	39	38	50	45	23	23	39	41.5
	Minimum	9	11	20	21	30	27	27	37	29	23	18	13	22	13	19	12	2	19	19	24	35	34	33	30	23	9	2	18	20.7
Keokuk	Maximum	28	27	43	55	55	55	62	62	37	33	33	41	33	40	48	36	38	54	43	58	54	43	38	56	45	20	25	41	43.0
	Minimum	16	16	23	31	35	33	36	37	31	21	17	17	24	19	28	15	7	25	24	31	38	36	33	33	18	10	5	20	24.2
Lamoni	Maximum	18	28	48	60	61	63	57	51	34	33	36	45	36	37	49	41	43	52	50	60	48	43	36	58	49	22	30	37	43.8
	Minimum	8	5	18	24	32	28	31	32	28	27	18	18	22	17	20	17	9	28	21	27	30	32	30	29	21	10	2	20	21.6
Sigourney	Maximum	23	25	44	53	53	54	50	55	38	34	33	45	39	34	39	37	34	51	42	55	47	40	38	49	46	28	23	38	41.0
	Minimum	8	10	20	32	29	27	30	37	29	28	19	18	21	16	17	16	— 1	29	20	26	34	31	32	29	27	7	1	18	21.8
Thurman	Maximum	30	23	47	55	54	53	49	46	35	32	35	44	36	38	50	36	42	46	48	57	53	43	40	57	51	38	29	35	42.9
	Minimum	5	— 3	21	26	30	28	33	32	28	22	21	25	25	19	18	18	12	28	20	26	32	34	32	33	27	14	10	18	22.6
Winterset	Maximum	18	22	46	60	60	62	55	50	33	32	38	48	35	35	42	34	40	50	47	64	60	38	37	55	48	22	29	33	42.6
	Minimum	5	5	20	27	30	28	30	32	29	25	18	22	20	18	22	15	8	18	20	25	29	27	28	26	20	7	0	20	20.5
Omaha	Maximum	13	22	46	58	55	58	48	36	35	31	36	41	31	38	45	24	38	43	52	61	46	41	40	57	33	19	30	40	39.9
	Minimum	2	— 4	22	33	34	31	36	30	26	23	20	28	23	25	23	13	17	26	28	32	30	32	30	33	16	11	9	20	23.2

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from record.

TOTAL PRECIPITATION, FEBRUARY, 1925



SCALE OF SHADES—IN INCHES

Less than 0.5	0.5 to 1.0	1.0 to 2.0	2.0 to 3.0	More than 3.0

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. XXXVI DES MOINES, IOWA, MARCH, 1925 No. 3

GENERAL SUMMARY

Aside from a cold spell on the 1st and 2d, and another at the end of the second week and the beginning of the third week, unusually mild weather prevailed throughout the month, though the mean temperature has been exceeded five times in March. Zero temperatures were reached on the 1st, 2d, and 15th, being general over most of the State on the 2d and over a large area on the 15th, but zero was reached in none of the counties bordering the Missouri River except Lyon. This is the third consecutive month with an excess in temperature. The average daily excess since January 1 is 4.0 degrees. This caused all trees to make rapid advances and at the end of the month fruit buds were about two weeks ahead of last year.

The precipitation was decidedly below the normal, only two stations having an excess. This was also the third consecutive month with deficient precipitation, and the total for the three months, 2.15 inches, was the least in the history of the State for a similar period. The nearest approach to this amount was 2.17 inches in 1895. Precipitation was well distributed throughout the month but generally too light to penetrate the soil, except in the storm of the 13th, and most of the moisture was lost by evaporation.

Conditions were unusually favorable for all farm work. Frost left the ground much earlier than usual, and the preparation of the soil and seeding oats and spring wheat progressed with practically no interruption during the last half of the month, to a stage much ahead of the average. While conditions were favorable for farm work, the general lack of precipitation in connection with the large number of windy days and the abnormally low humidity was injuriously affecting certain kinds of vegetation. In localities the dry soil drifted and covered up some winter wheat, and in other fields the soil blew away from the roots.

A number of small streams were completely dry and an unusually large number of wells were failing that never before had failed in the spring. The soil was so dry in most of the State that most of the oats seeded had made no advance toward germination, and grasses appeared dormant. Truck gardeners reported that hardy plants that had been transferred to fields were becoming yellow where irrigation was not practiced. Building operations progressed with very little interruption and highways were in unusually good condition, except for a brief period following the storm of the 13th, when dirt and gravel roads became soft.

F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 101 stations, was 40.1°, or 5.4° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 37.6°, or 5.5° higher than the normal; Central, 40.2°, or 5.1° higher than the normal; Southern, 42.4°, or 5.6° higher than the normal. The highest monthly mean was 44.4° at Ottumwa, and the lowest was 34.3°, at Estherville. The highest temperature reported was 82° at Thurman on the 22d, and at Glenwood and Little Sioux on the 23d, and the lowest was —6° at Cedar Rapids, Williamsburg and Postville on the 2d and at Fayette on the 15th. The temperature range for the State was 88°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 105 stations, was 0.93 inch, or 0.82 inch less than the normal. By divisions, the averages were as follows: Northern 0.68 inch, or 0.88 inch less than the normal; Central, 0.90 inch, or 0.92 inch less than the normal; Southern, 1.20 inches, or 0.68 inch less than the normal. The greatest amount, 2.34 inches, occurred at Thurman, and the least, 0.10 inch, occurred at Harlan. The greatest amount in 24 consecutive hours, 1.50 inches occurred at Creston on the 13th.

SNOWFALL

The average snowfall for the State was 2.9 inches, or 2.4 inches less than the normal. The greatest amount, 7.5 inches occurred at Humboldt and Iowa Falls and the least was a trace at Bonaparte, Corning, Cumberland, Fairfield, Fairport, Keosauqua, Monroe, Ottumwa, Stockport, Washington and Winterset.

MISCELLANEOUS PHENOMENA

Birds (migration of): Boone, red winged black birds, ducks, robins and kildeer 6th; wild geese, 13th; blue birds,

(Continued on Page 21)

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
1890	28.0	—6.7	75	—24	1.57	—0.18	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	4.84	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

T. indicates an amount too small to measure, or less than .005 inch precipitation and less than .05 inch snowfall.
*New normals effective June 1, 1924.

Climatological Data for March, 1925

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	52	38.0	+ 6.5	78	23	— 1	2	42	0.77	—0.65	0.32	6.0	5	21	7	3	se.	W. E. Laird
Allison (near)	Butler	1,044	13	37.2	+ 5.1	76	23	— 4	2	41	0.86	—0.94	0.40	4.0	4	17	11	3	sw.	J. A. Bell
Alta	Buena Vista	1,513	34	37.8	+ 4.8	78	23	1	2	36	0.51	—1.04	0.48	5.0	2	13	12	6	s.	D. E. Hadden
Alton	Sioux	1,305	20	38.4	+ 6.4	76	25	3	2	42	0.42	—0.68	0.30	3.0	2	6	15	10	sw.	W. S. Slagle
Belmond	Wright	1,205	15	37.8	+ 6.5	76	23	— 1	2	39	1.06	—0.27	0.57	3.9	6	9	17	5	nw.	Geo. P. Hardwick
Britt	Hancock	1,236	38	37.8	+ 7.3	79	23	— 1	2	36	0.34	—0.91	0.24	3.0	2	22	6	3	nw.	Jas. S. Ross
Charles City	Floyd	1,015	34	36.2	+ 5.5	76	23	— 1	2	38	0.96	—0.88	0.65	5.0	5	15	12	4	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	37.8[a]	------	78[a]	23	0[a]	2	36[b]	0.20	------	0.20	3.0	1	15	9	7	s.	J. E. Wirth
Decorah	Winneshiek	875	32	35.6	+ 4.3	64	23	— 4	2	38	0.85	—0.95	0.36	4.0	4	23	3	5	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	38.4	+ 4.4	69	23	— 1	2	33	1.03	—1.16	0.47	3.0	6	8	14	9	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	34.3	+ 2.7	75	25	— 3	2	41	0.75	—0.52	0.35	5.0	6	19	10	2	s.	A. O. Peterson
Fayette	Fayette	1,003	35	36.8	+ 5.5	73	23	— 6	15	45	0.98	—1.13	0.33	6.0	4	18	7	6	sw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	37.3	+ 5.5	77	23	— 3	2	40	0.45	—0.98	0.25	2.5	3	17	7	7	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	---	37.2	+ 4.7	76	23	— 1	2	40	1.01	—0.74	0.67	6.0	6	21	5	5	nw.	L. H. Davis
Humboldt	Humboldt	1,095	37	38.2	+ 5.0	81	23	0	15	40	1.03	—0.41	0.48	7.5	5	14	12	5	s.	H. C. Snitkey
Independence	Buchanan	921	61	39.3	+ 5.2	74	23	— 3	2	45	0.37	—1.35	0.18	2.0	3	20	1	10	nw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	38.0	+ 5.3	80	25	0	2	42	0.23	—0.97	0.20	2.0	2	21	7	3	sw.	A. C. Hanson.
Le Mars	Plymouth	1,224	29	39.8	+ 6.5	81	25	2	2	43	0.12	—1.13	0.11	1.0	2	19	8	4	se.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	36.6	+ 5.7	75	23	— 1	1	39	0.75	—0.62	0.60	6.0	3	10	19	2	nw.	Amer. Beet Sugar Corp.
Milford (near)	Dickinson	1,430	5	37.4[b]	------	77[a]	26	0[b]	2	37[b]	1.10	------	0.90	6.0	2	29	0	2	s.	S. N. McKinsey.
New Hampton	Chickasaw	1,169	28	36.5	+ 5.2	75	23	— 5	2	40	0.98	—0.94	0.58	3.0	4	17	4	10	nw.	A. F. Kemman
Nora Springs	Floyd	1,064	13	37.6	+ 4.9	76	23	— 2	2	40	0.87	—0.98	0.57	3.7	5	17	11	3	s.	Arthur Betts
Northwood	Worth	1,222	29	36.5[e]	+ 7.3	74[d]	23	— 3[f]	2	34[h]	0.80	—1.05	0.40	6.0	4	15	11	5	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	38.0	------	74	23	— 2	2	36	1.00	------	0.50	------	3	18	8	5	s.	John T. Ridler
Osage	Mitchell	1,163	---	35.8	------	74	23	— 4	2	36	0.63	------	0.50	6.0	4	10	14	7	nw.	W. G. Mee.
Pocahontas	Pocahontas	1,248	21	37.8	+ 5.5	79	23	1	15	41	1.05	—0.32	0.62	6.9	5	19	9	3	nw.	F. E. Hronek
Postville	Clayton	1,180	26	36.0	+ 5.4	70	23	— 6	2	37	0.89	—1.03	0.30	6.0	4	12	12	7	sw.	F. L. Williams
Rock Rapids	Lyon	1,358	26	38.0	+ 6.5	76	25	— 1	2	43	0.21	—1.11	0.19	1.9	2	22	6	3	ne.	J. K. Medberry
Sanborn	O'Brien	1,553	11	37.5	+ 5.9	77	25†	— 1	2	40	0.13	—1.27	0.05	1.3	3	19	9	3	se.	J. W. Dow
Sioux Center	Sioux	1,426	26	37.4	+ 5.9	77	25	3	14	40	0.42	—0.84	0.30	3.0	2	18	7	6	s.	J. de Ruyter
Spencer	Clay	1,319	11	38.2	+ 5.8	78	23	— 2	2	45	0.74	—0.58	0.30	3.5	4	13	13	5	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	39.2	+ 6.6	76	23	1	2	37	0.17	—1.13	0.08	1.3	3	20	4	7	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	------	------	------	------	------	------	------	0.30	—0.71	0.30	3.0	1	20	7	4	s.	H. L. Felter
Waterloo	Black Hawk	854	42	39.6	+ 5.2	78	23	— 5	2	40	0.73	—0.94	0.30	5.0	5	21	6	4	se.	R. B. Slippy
Waverly	Bremer	936	29	38.6[d]	+ 5.7	76[g]	23	— 2	2	38[g]	1.55	—0.23	0.67	4.5	5	22	4	5	nw.	D. H. Murphy
West Bend	Palo Alto	1,197	32	37.6	+ 5.6	78	23	— 1	2	40	0.34	—1.22	0.15	------	5	17	10	4	nw.	Jos. Dorweiler
Means and extremes		------	---	37.6	+ 5.5	81	23†	— 6	2†	45	0.68	—0.88	0.90	4.1	4	17	9	5	nw.	
Central Division																				
Ames	Story	926	48	40.5	+ 5.5	79	23	— 1	2	42	0.87	—0.55	0.45	2.5	5	20	7	4	sw.	Iowa State College
Audubon	Audubon	1,297	30	39.0	+ 5.2	78	23	— 3	2	39	1.04	—0.41	0.70	7.0	3	15	13	3	sw.	Geo. Kibby
Baxter	Jasper	998	25	40.0	+ 5.0	76	23	— 4	2	42	0.97	—0.87	0.63	3.0	5	13	16	2	s.	Henry Geise
Belle Plaine	Benton	866	35	40.4	+ 5.5	78	23	— 4	2	40	0.54	—1.74	0.38	3.7	6	15	13	3	nw.	O. C. Burrows
Boone	Boone	1,134	20	39.4	+ 3.4	78	23	— 4	15	46	1.13	—0.31	0.80	7.0	5	----	----	----	n.	C. F. Henning
Carroll	Carroll	1,265	35	40.4	+ 4.4	80	23	0	2	45	0.54	—1.15	0.45	4.0	2	21	6	4	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	40.0	+ 4.3	78	23	— 6	2	54	0.75	—1.55	0.35	1.5	4	15	9	7	nw.	J. T. Wurster
Clinton	Clinton	595	52	40.9	+ 5.1	69	25†	0	2	37	1.05	—1.77	0.46	0.2	5	23	4	4	s.	Dr. A. P. Bryant
Davenport	Scott	580	54	40.9	+ 4.8	71	25	0	2	36	1.13	—1.18	0.72	0.6	6	13	13	5	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	41.9	------	73	25	— 1	2	41	1.39	------	0.82	0.2	5	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	40.2	+ 5.2	80	23	0	2	42	0.42	—1.11	0.33	4.0	3	14	12	5	nw.	V. L. Byers
Des Moines	Polk	861	47	41.2	+ 5.3	78	23	4	2	35	0.88	—0.82	0.76	2.6	6	12	9	10	sw.	U. S. Weather Bureau
Fairport	Muscatine	567	4	42.4	------	72	23	0	2	38	1.20	------	0.66	T.	5	19	4	8	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	38.6	+ 4.3	77[a]	23	— 1	2	42	0.58	—1.02	0.30	6.0	6	21	4	6	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	41.2	+ 5.9	77	23	— 4	2	37	0.54	—1.29	0.17	0.8	6	17	10	4	nw.	Paul P. Meyers
Grundy Center	Grundy	976	34	38.6	+ 3.9	76	23	— 4	2	37	1.60	—0.20	0.60	------	5	13	4	14	n.	W. D. Callaway.
Guthrie Center	Guthrie	1,077	30	40.4	+ 5.2	78	23	0	2	44	0.92	—0.58	0.84	5.0	3	22	6	3	sw.	E. L. Nesselroad
Harlan	Shelby	1,192	26	40.3	+ 5.0	80[a]	23	0	2	41[a]	0.10	—1.23	0.10	------	1	21	8	2	s.	Nels Bisgard
Iowa City	Johnson	733	65	40.4	+ 4.8	74	23	— 3	2	40	0.99	—1.41	0.81	1.0	6	16	11	4	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	38.4	+ 4.3	76	23	— 1	2†	39	1.38	—0.49	0.50	7.5	8	13	14	4	nw.	J. B. Parmelee
Jefferson	Greene	1,052	26	39.2	+ 3.4	80	23	— 2	15	44	0.78	—0.68	0.50	5.0	5	16	7	8	sw.	W. I. Lyon
Little Sioux	Harrison	1,040	20	42.4	+ 6.3	82	23	1	2	39	0.94	—0.38	0.91	5.5	2	17	10	4	sw.	H. W. Kerr
Logan††	Harrison	1,035	58	42.0	+ 4.8	81	23	4	2†	42	0.38	—1.28	0.25	5.0	3	16	12	3	sw.	Mary Jean Stern
Maquoketa	Jackson	692		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	John Strodthoff
Marshalltown	Marshall	947	33	40.5	+ 4.9	78	23	— 1	2	38	1.29	—0.57	0.74	5.1	7	22	5	4	nw.	C. C. Pigman
Monroe	Jasper	922	13	40.4	+ 4.4	76	23	— 3	2	39	1.64	—0.16	1.00	T.	5	21	3	7	s.	J. A. Dibel
Olin	Jones	760	26	38.8	+ 4.3	70	23	— 4	2	38	1.45	—0.81	0.80	------	5	22	4	5	nw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	41.2	+ 5.9	81	23	5	2	45	0.30	—1.32	0.30	3.0	1	20	3	8	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	40.4	+ 5.0	79	23	— 2	15	45	1.18	—0.56	0.54	2.6	4	23	6	2	s.	Eugene N. Hastie.
Rockwell City	Calhoun	1,134	29	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	A. W. McIsaac
Sac City	Sac	1,278	49	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	F. P. Kessler
Sioux City	Woodbury	1,135	36	40.6	+ 7.9	80	25	6	2	35	0.33	—0.83	0.28	3.0	4	9	16	6	nw.	U. S. Weather Bureau
Tipton	Cedar	807	26	39.2	+ 3.7	71	23	— 2	2	39	1.23	—1.36	0.69	1.2	5	17	8	6	w.	Chas. H. Obye
Toledo	Tama	856	31	40.2	+ 4.8	78	23	— 3	2	41	0.92	—0.88	0.62	4.5	4	21	5	5	nw.	I. F. Giger
Waukee	Dallas	1,039	22	40.2	+ 5.0	76	25	— 1	2	41	0.77	—0.88	0.56	1.5	6	23	6	2	nw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	38.2	+ 4.2	78	23	— 4	2	41	0.67	—0.83	0.27	------	4	17	11	3	ne.	Frank A. Bonebright
Williamsburg	Iowa	765	9	38.9	+ 3.8	75	23	— 6	2	45	0.29	—1.82	0.12	1.3	5	19	9	3	nw.	Dr. F. C. Schadt
Means and extremes		------	---	40.2	+ 5.1	82	23	— 6	2	54	0.90	—0.92	1.00	3.0	4	18	8	5	nw.	

Climatological Data for March, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	42.8	+ 6.3	80	23	— 1	2	42	0.98	—0.91	0.98	-----	1	24	2	5	sw.	S. R. Brown
Albia	Monroe	959	27	42.8	+ 6.6	77	23	0	2	40	1.71	—0.25	0.70	1.3	6	17	4	10	se.	O. E. McBride
Atlantic	Cass	1,164	34	41.6	+ 5.6	80	23	2	2	44	0.98	—0.61	0.66	3.5	3	14	9	8	sw.	Mrs. Minnie Cunningham
Bonaparte	Van Buren	563	34	42.6	+ 5.2	75	7	1	2	40	1.31	—0.94	0.92	T.	2	21	6	4	s.	B. R. Vale
Burlington	Des Moines	544	29	44.1	+ 5.2	77	23	2	2	37	0.70	—1.81	0.40	1.5	5	20	4	7	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	43.6	+ 5.7	75	23	1	2	39	1.71	—0.22	1.20	0.2	5	16	9	6	sw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	42.6	+ 6.6	76	23	0	2	40	0.74	—1.00	0.55	2.0	2	15	10	6	nw.	C. C. Burr
Clarinda	Page	1,009	35	43.5	+ 5.4	80	23	0	2	45	1.35	—0.37	1.27	0.5	5	18	10	3	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Corning	Adams	1,117	33	42.2[b]	+ 6.3	79[a]	23	— 1[b]	2	44[b]	0.94	—0.96	0.94	T.	1	-----	-----	-----	sw.	Jerome Smith
Corydon	Wayne	1,101	32	42.7	+ 6.1	76	23	1	2	39	1.54	—0.47	1.07	1.0	5	11	16	4	nw.	Mrs. May Miller King
Creston ‡†	Union	1,312	20	41.0	+ 5.4	76[a]	23	4	2	39[a]	1.55	+0.09	1.50	0.5	2	21	7	3	s.	J. W. Goodsell.
Cumberland (near)	Cass	1,225	26	-----	-----	-----	-----	-----	-----	-----	0.38	—1.16	0.30	T.	2	17	9	5	sw.	Carl E. Pollock
Earlham	Madison	1,126	23	39.8	+ 4.8	78	23	0	2	41	0.66	—1.05	0.46	2.0	2	17	5	9	sw.	Geo. Phillips
Fairfield	Jefferson	780	41	41.4	+ 4.7	76	23	1	2	37	1.19	—1.14	0.81	T.	5	20	4	7	n.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	43.6	+ 5.7	82	23	4	2	40	0.91	—0.43	0.85	1.0	3	9	20	2	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	41.0	+ 4.7	78	23	— 1	2	40	0.63	—1.00	0.38	2.2	4	16	10	5	nw.	Seth F. Shenton
Keokuk	Lee	614	54	43.4	+ 4.5	76	23	3	2	37	0.95	—1.34	0.54	0.6	6	12	12	7	s.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	41.8	+ 3.9	74	7	3	2	39	1.33	—0.94	0.93	T.	2	16	8	7	se.	J. H. Landes
Knoxville	Marion	920	30	41.8	+ 5.2	78	23	— 5	2	41	1.12	—0.68	0.68	4.0	5	18	10	3	sw.	W. J. Casey.
Lacona	Warren	-----	26	-----	-----	-----	-----	-----	-----	-----	1.38	—0.92	0.95	5.0	6	11	13	7	-----	J. B. Alter
Lamoni	Decatur	1,123	18	42.6	+ 5.7	77	23	— 1[a]	2	41[a]	1.73	—0.14	1.35	3.0	3	19	2	10	nw.	Roy L. Roberts
Lenox	Taylor	1,250	30	42.2	+ 5.6	79	23	— 1	2	40	1.38	—0.16	1.00	3.3	5	15	11	5	nw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	42.6	+ 5.6	76	23	— 1	2	37	1.36	—0.54	1.16	2.0	2	9	11	11	s.	Alex Maxwell
Mt. Pleasant	Henry	729	44	42.9	+ 5.3	74	7	1	2	39	1.28	—0.92	0.89	0.5	3	15	10	6	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	42.5[d]	+ 6.3	81[e]	23	1[d]	2	40[e]	0.60	-----	0.40	2.0	2	-----	-----	-----	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	41.3	+ 5.5	76	23	— 3	2	39	1.49	—0.42	1.06	4.1	5	12	10	9	nw.	Roy R. Robinson
Ottumwa	Wapello	649	30	44.4[a]	-----	80[a]	29	3[a]	2	51[a]	1.56	—0.41	0.94	T.	4	20	4	7	nw.	C. L. Mikesh
Pella	Marion	877	32	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Red Oak (near)	Montgomery	1,030	----	-----	-----	-----	-----	-----	-----	-----	1.20	-----	1.00	-----	2	12	14	5	s.	B. R. Bridge
Sigourney	Keokuk	790	29	41.3	+ 5.2	75	23	— 1	2	37	1.36	—0.65	0.88	3.3	4	21	4	6	nw.	W. E. Utterback
Stockport	Van Buren	745	23	42.0	+ 5.6	74	7†	2	2	42	1.37	—0.80	0.88	T.	5	16	10	5	s.	C. L. Beswick
Thurman	Fremont	975	28	43.9	+ 6.6	82	22	1	2	39	2.34	+0.86	1.42	1.5	4	9	13	9	nw.	C. R. Paul
Tingley	Ringgold	1,275	----	41.8	-----	72	23†	— 2	2	37	1.26	-----	0.92	2.0	3	13	14	4	nw.	James A. Verploegh
Washington	Washington	769	43	42.3	+ 5.8	76	23	— 2	2	42	1.28	—0.91	0.82	T.	3	25	3	3	sw.	D. D. Sherman
Wescott (near)	Lee	-----	3	41.9	-----	73	23	2	2	40	1.66	-----	1.15	0.1	3	22	6	3	nw.	Lester J. Larson
Winterset	Madison	1,129	34	41.4	+ 5.2	78	23	— 1	2	40	0.68	—1.07	0.65	T.	2	24	5	2	sw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	43.2	+ 6.2	82	23	6	2	35	0.75	—0.64	0.59	5.8	6	11	12	8	nw.	U. S. Weather Bureau
Means and extremes	----------	-----	----	42.4	+ 5.6	82	22†	— 5	2	51	1.20	—0.68	1.50	1.6	4	16	9	6	nw.	
State means and extremes	----------	-----	----	40.1	+ 5.4	82	22†	— 6	2†	54	0.93	—0.82	1.50	2.9	4	17	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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	30.08	30.50	14	29.57	9	79	52	61	24	29	6,411	8.6	29	s.	20	71	+15
Davenport	30.09	30.53	15	29.64	9	85	67	68	40	20	6,626	8.9	32	s.	20	66	+ 9
Des Moines	30.07	30.52	27	29.54	24	74	50	52	20	28	6,477	8.7	38	sw.	20	76	+16
Dubuque	30.06	30.50	15	29.60	9	76	52	54	21	31	6,085	8.2	28	s.	20	67	+14
Keokuk	30.10	30.58	15	29.66	10	75	52	55	33	28	6,571	8.8	30	s.	20	67	+ 7
Sioux City	30.08	30.65	14	29.39	9	74	52	51	18	25	11,251	15.1	50	nw.	26	74	+16
Omaha, Neb.	30.07	30.62	14	29.52	9	69	46	46	14	28	7,165	9.6	37	n.	†13	68	+11
Means and extremes	30.08	-----	----	-----	----	76	53	55	---	---	-----	9.7	---	-----	----	70	+13
	-----	30.65	14	29.39	9	---	---	---	14	28	-----	----	50	nw.	26	----	----
Normals and records	30.04	-----	29th	-----	29th	80	---	67	---	18th	-----	9.6	---	-----	16th	57	----
	-----	§30.82	1921	*28.79	1924	---	---	---	*5	1918	-----	----	§65	w.	1920	----	----

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

Daily Precipitation for March, 1925

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				.06					.11				.16	.32										.12							0.77
Allison (near)	Cedar								T.	.33				.40			.05				T.			.08							0.86
Alta	Raccoon								T.	.03				.48																	0.51
Alton	Floyd	T.								.12				.30							T.				T.						T.	0.42
Belmond	Iowa	T.			.04				.05	.57				.25	.10					T.	T.			.05								1.06
Britt	Iowa									.10				.24	T.						T.			T.	T.							0.34
Charles City***	Cedar	T.		T.					.10	.18				.65						T.	.01		T.	T.	.02							0.96
Cherokee	Little Sioux	T.			T.				T.	T.				.20				T.			T.						T.				T.	0.20
Decorah	Mississippi									.36				.20	.20										.09							0.85
Dubuque***	Mississippi		T.						.17	.10				.47	.10				.16		T.				.03							1.03
Estherville	Des Moines				.08					.10				.35				.10						.10	.02							0.75
Fayette	Mississippi			T.					T.	.33				.28	.29			T.			T.				.08							0.98
Forest City	Cedar								.05					.25								T.			.15						T.	0.45
Hampton	Cedar								.06	.12				.38	.29		.13				T.			.03								1.01
Humboldt	Des Moines			T.	.05				T.	.22				.48	.21								T.	.07	T.							1.03
Independence	Wapsipinicon								T.	T.				.15	.18				T.						.04							0.37
Inwood	Big Sioux									T.				.20								T.									.03	0.23
Le Mars	Floyd	T.							T.	.01				.11	T.			T.														0.12
Mason City	Cedar	T.		T.					.10	.05				.60				T.		T.	T.			T.	T.							0.75
Milford (near)	Little Sioux				T.					.20				.90				T.					T.		T.							1.10
New Hampton	Wapsipinicon	T.							T.	.58					.10	.24					T.				.06							0.98
Nora Springs	Cedar	T.								.22				.57							.03			.03	.02							0.87
Northwood	Cedar									.10				.40	.20										.10			T.				0.80
Oelwein	Wapsipinicon								.10	.40				.50																		1.00
Osage	Cedar	T.		T.		T.			T.	.09				*	.50									.04	T.			T.				0.63
Pocahontas	Des Moines								.04	.08					.62								.03	.28								1.05
Postville	Mississippi			T.						.25				.30	.30			.04			T.				T.							0.89
Rock Rapids	Big Sioux									.02				.19								T.									T.	0.21
Sanborn	Floyd													.03								.05	.05									0.13
Sioux Center	Floyd	T.							T.	.12				.30			T.				T.										T.	0.42
Spencer	Little Sioux	T.								.27				.30								.05		.12								0.74
Storm Lake	Raccoon					T.			T.	.05				.08	.04																	0.17
Washta	Little Sioux	T.								T.				.30				T.			T.						T.				T.	0.30
Waterloo	Cedar								.14	.06				.30	.20							T.			.03							0.73
Waverly	Cedar									.67				T.	.35			.22			.26				.05							1.55
West Bend	Des Moines								.02	.11				.15							T.			.05	.01							0.34
Central Division																																	
Ames	Skunk				T.				.15	.07				.45	.05								T.		.15						T.	0.87
Audubon	Nishnabotna	T.							.10	T.				.70										.24	T.						T.	1.04
Baxter	Skunk								.13	.07				.63				.10				T.		.04							T.	0.97
Belle Plaine	Iowa	T.			.06				.03	.04				.27	.11				.03				T.									0.54
Boone	Des Moines				T.				.14	.05				.62	.18										.14						T.	1.13
Carroll	Raccoon								.09						.45									T.								0.54
Cedar Rapids	Cedar	T.							.16	T.				.35	.15				.09													0.75
Clinton	Mississippi	.01								.38				.46	.18				.02													1.05
Davenport***	Mississippi	T.							T.	.01		T.		.72	.04			.21	.14	T.					.01							1.13
Davenport (No. 2)	Mississippi	T.								.01	T.			.82	.10				.43						.03							1.39
Denison	Missouri	T.							.04					.33	.05										T.							0.42
Des Moines***	Des Moines	T.			.05				.02	.03			.01	.75				T.						.02	T.							0.88
Fairport	Mississippi	T.								.02				.66	.05				.45	.02					T.							1.20
Fort Dodge	Des Moines				T.				.05	.07				.18	.22		T.							.03	.03							0.58
Grinnell	Iowa	.01			.08				.10	.05				.13	.17				T.													0.54
Grundy Center	Cedar				T.				.20	.20				.50	.60					T.					.10							1.60
Guthrie Center	Raccoon													.67	.17										.08							0.92
Harlan	Nishnabotna																							.10								0.10
Iowa City	Iowa	.02							.01	.02				.74	.07				.13						T.							0.99
Iowa Falls	Iowa	T.			.05				.02	.34				.50	.20		T.	.07			.02				.18						T.	1.38
Jefferson	Raccoon	T.			T.				.12	T.					.50		T.	.03						.08	.05						T.	0.78
Le Claire‖	Mississippi	T.								.09	T.			.61	.29				.42	.10							T.					1.51
Little Sioux	Little Sioux								.03					.91										T.								0.94
Logan	Missouri								.02					.25	*									.11								0.38
Maquoketa	Maquoketa																															
Marshalltown	Iowa	T.			.07				.21	.06				.74	.16				T.			T.	.01		.04						T.	1.29
Monroe	Des Moines	T.			.07					.04				.42	1.00	T.			.11						T.							1.64
Muscatine‖	Mississippi	.02								.05	.01			.50	.12				.25	.05						.01						1.01
Olin	Wapsipinicon	.20							.15	.10				.80					.20													1.45
Onawa	Missouri	T.							T.	T.				.30																		0.30
Perry	Raccoon	T.			T.				.16					.45	.54									.03	T.							1.18
Rockwell City	Raccoon																															
Sac City	Raccoon																															
Sioux City***	Missouri	.01							T.	.03			T.	.28				T.							T.						.01	0.33
Tipton	Cedar								.17					.69	.05				.26	.06													1.23
Toledo	Iowa				.03				.17	.10				T.	.62				T.						T.							0.92
Van Meter‖	Raccoon					.02				.02				.42	.25									.08								0.79
Waukee	Raccoon	T.			.02				.03	.01	T.			.56	.09		T.	T.							.06						T.	0.77
Webster City	Des Moines								T.	.27				.20	.10										.10							0.67
Williamsburg	Iowa	.02			.04				.04						.07				.12													0.29

Daily Precipitation for March, 1925—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								T.					.98																		0.98
Albia	Des Moines	.01			.05					.05				.70	.47				.43	T.												1.71
Atlantic	Nishnabotna	T.							T.	T.				.66	.10									.22								0.98
Bonaparte	Des Moines	T.			T.					T.				.92	T.				.39													1.31
Burlington	Mississippi	.05			.20					T.				.40	.02										.03	T.						0.70
Centerville	Chariton	T.			.01				T.	.01				1.20	.02			T.	.47													1.71
Chariton (near)	Chariton	T.								T.				.55					.19													0.74
Clarinda	Nodaway	.02			.03									1.27					.06						.02							1.40
Columbus Jct.	Iowa																															
Corning	Nodaway	T.												.94				T.							T.							0.94
Corydon	Chariton	.18			T.					.01				1.07	.01				.27					T.								1.54
Creston	Missouri	.05								T.				1.50	T.																	1.55
Cumberland (near)	Nodaway	T.							T.	T.				.30	T.										.08							0.38
Earlham	Des Moines	T.							T.	T.				.46	.20										T.							0.66
Fairfield	Skunk				.04									.81	.02				.30	.02												1.19
Glenwood	Missouri	T.			T.					.02				.85	T.				T.						T.				.04			0.91
Indianola	Des Moines	T.			.02				T.	.01				.38	.22				T.													0.63
Keokuk***	Mississippi	.02			.02					T.			.02	.52	T.			.25	.12						T.							0.95
Keosauqua	Des Moines	T.							T.	T.				.93	T.				.40	T.												1.33
Knoxville	Des Moines				.10				T.	.04				.68	.10				.20						T.							1.12
Lacona	Des Moines				.10				.01	.10				.75	.20				.22													1.38
Lamoni	Grand	T.								.01				1.35					.37													1.73
Lenox	Missouri	.03								T.				1.00	.05			T.	.15						.15							1.38
Mt. Ayr	Grand	T.			T.				T.	T.				1.16					.20													1.36
Mt. Pleasant	Skunk	T.			.07					T.				.89					.32													1.28
Oakland	Nishnabotna								T.					.20										.40								0.60
Oskaloosa	Des Moines	.02			.04				T.	T.				1.06	.06				.31						T.							1.49
Ottumwa	Des Moines	T.			T.				T.	.02				.94	.08				.52						T.							1.56
Pella	Skunk																															
Red Oak (near)	Missouri				T.				T.	T.				1.00	.20										T.				T.			1.20
Sigourney	Skunk	.05			.08				T.	T.				.88	T.				.35						T.							1.36
Stockport	Skunk	T.			.02					.03				.88	.03				.41	T.					T.							1.37
Thurman	Missouri	.50			T.				T.	T.				1.42	.28									.14					T.			2.34
Tingley	Platt													.92					.31						.03							1.26
Washington	Skunk				T.				T.					.82	.08				.38						T.							1.28
Wescott (near)	Mississippi	.01												1.15					.50													1.66
Winterset	Des Moines								T.	T.				.65											.03							0.68
Omaha, Neb.***	Missouri	.04			T.				.04	T.			.1[illegible]	.45				T.						.05					.02			T.	0.75

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 1)

14th; phoebe, 19th; fox sparrow, song sparrow, 21st; blue heron, chewing, kingfisher, 31st. Corydon, robins, 4th. Earlham, robins, 6th. Jefferson, robins, 6th. Oskaloosa, ducks, 6th; meadow larks, 11th.

Dust storm: 26th.

Fog: 8th, 9th, 17th, 19th, 22d, 24th, 25th.

Hail: 23d.

Halos (lunar and solar): 1st, 2d, 3d, 5th, 9th, 11th, 12th, 15th, 16th, 17th, 18th, 20th, 21st, 22d.

Haze: 16th, 23d.

Parhelia: 1st.

Sleet: 3d, 4th, 13th, 14th, 18th.

Thunderstorms: 9th, 13th, 22d, 23d, 24th, 31st.

Wind (high): 1st, 3d, 5th, 10th, 13th, 15th, 16th, 20th, 21st, 23d, 24th, 25th, 26th, 27th, 28th.

RIVERS

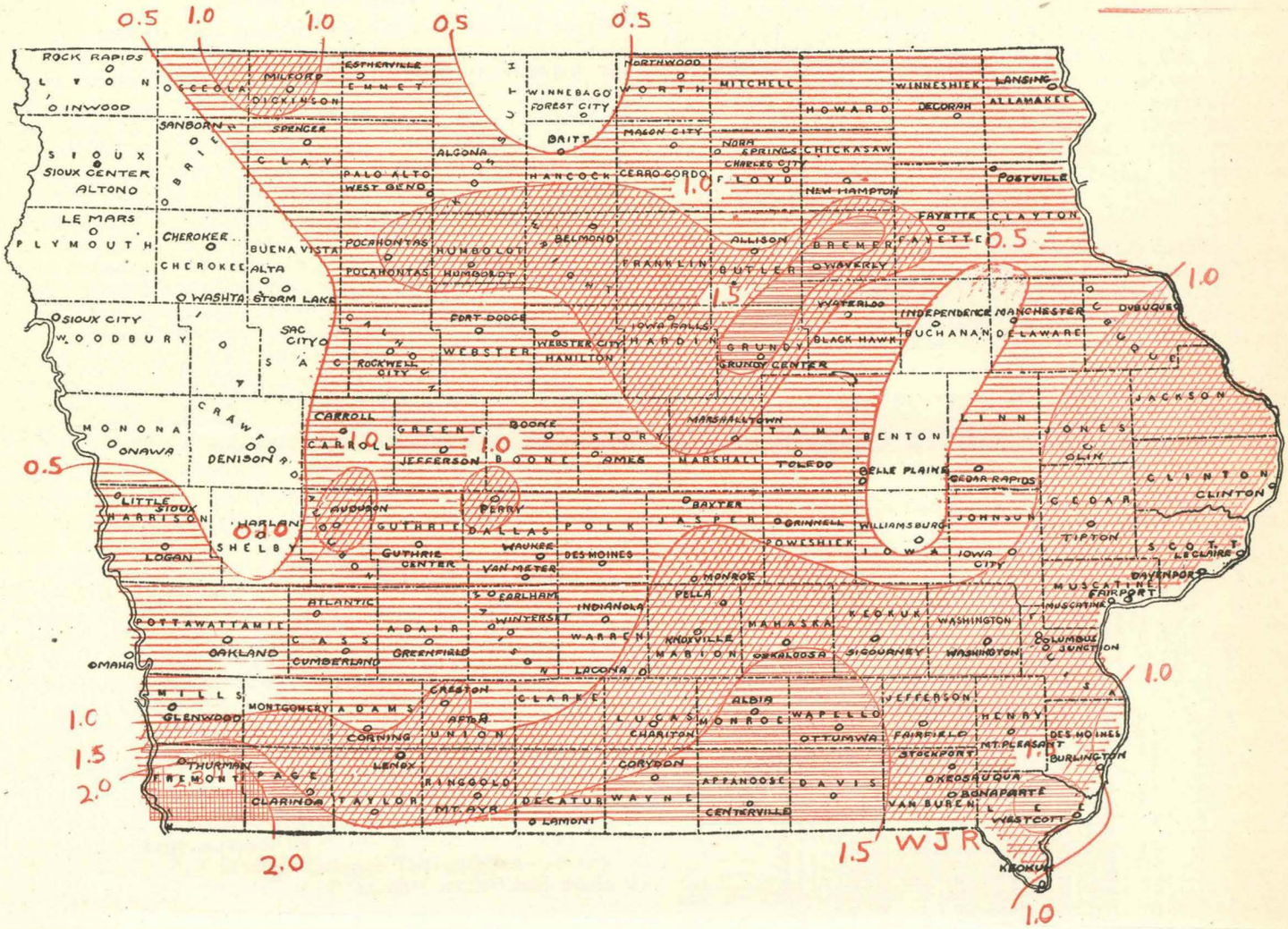
Low stages prevailed on the Mississippi river with a slight fall during the first week and a gradual rise thereafter till near the end of the month. The ice began breaking at the end of the first week but there was still some ice in the upper course as late as the 20th. Low stages also prevailed on all interior rivers with considerable fluctuation during the first week due to ice after which there was a slow rise till the latter part of the month. Moderate stages prevailed on the Missouri River with the highest stages during the first week and a general falling tendency prevailed the rest of the month. The ice moved out of all streams with very little damage.

Daily Maximum and Minimum Temperature for the Month of March, 1925.

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
Northern Division																																	
Algona	Maximum	23	25	43	42	56	56	43	38	58	53	35	46	36	22	39	47	54	46	47	55	53	56	78	66	72	65	51	61	59	57	62	49.8
	Minimum	2	— 1	20	27	32	30	33	30	32	28	26	26	20	8	4	30	30	24	28	31	24	24	36	35	40	40	30	26	36	30	35	26.3
Alta	Maximum	15	28	44	47	57	50	41	35	64	38	37	48	33	23	41	52	52	44	49	56	40	62	78	61	74	58	52	65	65	63	64	49.5
	Minimum	3	1	20	28	33	33	32	32	31	24	14	27	16	4	5	30	30	23	28	35	21	28	43	36	40	38	28	29	34	28	36	26.1
Alton	Maximum	20	30	42	46	58	48	40	39	63	53	36	46	36	19	41	52	58	43	50	60	50	60	73	59	76	63	52	64	65	60	63	50.5
	Minimum	6	3	22	32	34	33	33	30	33	26	14	20	17	6	8	28	31	23	28	34	22	26	43	36	38	40	28	22	33	26	38	26.2
Belmond	Maximum	21	27	44	45	60	53	50	43	56	50	36	50	37	21	38	45	52	43	48	53	50	57	76	65	72	57	53	63	60	55	60	49.7
	Minimum	0	— 1	19	26	30	33	43	28	33	27	15	25	21	10	0	29	29	27	26	34	25	30	41	34	36	41	30	24	32	27	33	26.0
Charles City	Maximum	13	25	40	44	55	54	44	38	49	45	35	49	32	20	37	46	55	42	44	56	42	54	76	56	72	54	50	58	57	55	61	47.0
	Minimum	— 1	— 1	18	21	30	30	33	29	32	24	17	28	20	9	4	30	28	25	25	30	27	28	38	36	38	36	31	26	33	30	32	25.4
Decorah	Maximum	27	21	39	42	48	52	42	39	47	50	32	48	46	25	35	44	51	45	42	55	49	52	64	62	63	60	49	56	56	55	60	47.0
	Minimum	0	— 4	16	19	28	32	28	31	23	17	25	21	11	— 3	29	24	27	29	24	32	21	36	36	35	44	39	21	25	28	24	24.1
Dubuque	Maximum	28	23	42	42	49	57	47	38	57	55	35	51	41	25	35	49	56	45	46	59	51	53	69	59	68	61	49	57	56	57	61	49.1
	Minimum	0	— 1	17	28	25	34	33	32	33	27	22	29	21	11	9	34	32	32	26	29	32	29	40	41	35	41	37	32	31	38	31	27.7
Forest City	Maximum	24	26	40	46	58	52	43	38	53	55	36	47	42	23	39	46	54	48	47	53	50	55	77	68	72	60	53	61	57	55	60	49.6
	Minimum	1	— 3	18	14	30	35	33	30	31	28	13	25	20	9	3	23	28	25	27	29	24	32	37	34	39	42	30	25	33	26	34	25.0
Independence	Maximum	39	25	45	44	54	59	58	50	47	54	40	51	41	40	38	46	57	56	46	61	60	55	74	73	71	73	70	59	59	57	62	53.7
	Minimum	8	— 3	16	20	24	28	34	30	31	32	20	26	21	14	4	21	30	32	25	28	28	28	35	34	35	28	33	27	27	29	28	24.9
Inwood	Maximum	20	29	43	47	59	47	44	37	59	44	34	43	31	22	44	57	57	45	52	65	39	60	75	63	80	59	56	67	66	61	64	50.6
	Minimum	5	0	23	25	34	30	31	27	32	22	10	22	16	4	9	31	33	20	26	36	20	24	44	36	41	38	26	25	31	27	39	25.4
Mason City	Maximum	23	25	38	44	60	51	41	38	54	54	35	48	38	22	39	47	53	43	44	55	50	53	75	65	72	60	50	60	58	53	60	48.6
	Minimum	— 1	1	20	22	30	28	33	28	32	26	14	27	21	11	3	26	26	26	24	28	24	27	36	35	39	43	31	22	28	24	31	24.7
Milford (near)	Maximum	12	26	44	46	58	46	38	36	58	48	35	45	32	22	42	55	56	41	48	60	48	58	75	60	75	77	65	68	68	----	68	50.3[a]
	Minimum	2	0	20	16	31	31	29	29	32	24	11	22	17	4	5	27	28	21	26	30	21	27	36	33	40	40	34	34	37	----	----	24.5[b]
New Hampton	Maximum	26	25	41	45	54	52	47	38	45	50	34	49	43	21	36	47	55	49	44	54	49	54	77	67	70	63	50	58	56	55	64	48.9
	Minimum	0	— 5	15	19	25	31	33	29	31	30	16	25	21	10	2	28	29	27	23	23	26	26	37	34	35	38	30	24	30	29	29	24.1
Northwood	Maximum	11	22	----	43	54	47	37	47	----	----	33	43	37	25	37	46	51	42	47	53	52	----	77	60	68	56	50	55	50	51	60	46.3[d]
	Minimum	0	— 3	----	23	29	31	29	----	----	----	23	13	25	20	13	3	26	----	26	23	27	25	27	----	34	35	34	31	----	25	26	31	23.0[e]
Pocahontas	Maximum	28	28	45	49	60	53	40	37	64	52	39	49	37	32	40	47	53	43	50	55	53	60	79	63	61	52	54	63	60	58	63	50.5
	Minimum	4	3	20	27	31	33	33	30	32	25	14	24	19	7	1	27	28	25	25	29	23	28	38	36	41	29	30	23	30	26	33	25.0
Postville	Maximum	30	22	40	43	49	54	42	37	47	52	3	48	40	28	34	43	54	45	45	57	49	51	70	64	68	61	50	58	56	56	61	48.0
	Minimum	— 5	— 6	15	19	25	29	31	29	30	26	16	25	22	11	0	31	27	29	24	30	28	25	36	36	36	42	31	26	28	29	24	24.1
Central Division																																	
Belle Plaine	Maximum	31	30	52	40	55	56	57	43	59	47	41	58	59	27	42	49	60	58	50	67	53	60	78	68	74	61	55	63	60	61	67	54.2
	Minimum	5	— 4	15	22	26	28	35	30	34	31	21	26	27	15	7	33	28	34	21	29	28	29	38	37	34	43	33	23	31	31	31	26.5
Boone	Maximum	31	29	52	48	63	61	52	42	56	56	40	56	47	28	42	48	57	48	50	62	54	61	78	61	75	67	55	63	62	59	63	53.7
	Minimum	6	— 1	19	19	24	24	35	32	33	29	19	22	26	12	— 4	35	24	30	20	27	26	30	43	38	32	44	32	19	25	22	32	25.0
Carroll	Maximum	27	30	46	50	65	62	50	47	67	56	42	53	45	24	41	47	57	46	53	61	54	62	80	75	68	67	64	62	67	65	64	54.7
	Minimum	6	0	20	30	31	33	33	34	33	28	15	26	20	6	5	29	31	26	25	31	23	35	35	39	36	35	29	26	33	26	33	26.2
Cedar Rapids	Maximum	31	29	50	48	55	58	60	45	60	62	42	59	52	35	44	55	63	51	54	69	60	62	78	66	76	63	59	67	63	66	69	56.5
	Minimum	4	— 6	11	20	20	26	34	30	30	29	20	23	28	12	5	31	25	39	19	24	28	26	31	33	22	35	33	23	24	29	26	23.5
Davenport	Maximum	31	22	44	45	50	55	67	36	63	60	38	55	46	28	39	53	58	49	49	60	51	58	70	60	71	67	52	61	57	59	67	52.1
	Minimum	4	0	18	27	27	39	36	32	33	30	26	29	27	17	16	33	35	31	26	35	32	35	41	41	35	43	36	34	33	37	32	29.7
Des Moines	Maximum	22	29	51	44	61	57	55	36	64	51	42	56	44	24	45	47	57	49	51	64	48	61	78	63	74	59	54	62	61	57	62	52.5
	Minimum	5	4	19	29	30	34	36	33	34	29	24	31	24	13	12	36	32	31	26	37	30	33	44	42	39	43	36	29	38	35	38	29.9
Ft. Dodge	Maximum	26	30	45	50	62	56	47	43	64	62	39	49	40	25	40	44	52	47	49	57	54	60	77	----	74	68	53	64	61	59	60	51.9[a]
	Minimum	3	— 1	18	30	34	31	31	27	31	28	15	25	22	6	1	29	26	25	24	31	23	29	40	33	38	43	30	22	32	26	34	25.4
Grinnell	Maximum	31	28	47	45	57	56	57	47	60	60	40	57	53	31	44	46	59	56	48	65	60	60	77	72	73	66	53	63	61	60	65	54.7
	Minimum	8	— 4	15	25	26	31	34	30	31	32	21	26	29	15	8	31	32	34	24	32	27	31	41	40	36	42	32	28	35	31	33	27.6
Guthrie Center	Maximum	34	30	51	50	64	62	54	40	67	60	44	56	54	27	44	46	54	42	51	52	59	64	78	71	74	69	53	65	65	61	64	55.0
	Minimum	10	0	19	19	20	18	33	28	31	29	18	28	25	7	5	34	28	28	23	35	24	30	43	37	40	46	31	24	33	23	34	25.9
Iowa City	Maximum	31	25	47	43	52	54	59	47	59	59	39	55	49	33	41	52	61	54	49	64	50	58	74	63	72	60	53	62	58	59	62	53.3
	Minimum	10	— 3	17	23	23	35	36	32	33	33	22	26	32	16	10	32	31	33	21	29	30	30	39	43	32	37	35	26	30	34	29	27.6
Iowa Falls	Maximum	29	28	47	44	59	57	47	38	55	55	36	49	43	24	38	47	54	48	46	57	51	56	76	69	72	63	52	60	57	56	62	50.8
	Minimum	5	— 1	18	24	28	32	33	30	32	31	18	28	24	11	— 1	32	28	30	24	30	26	29	41	34	38	43	31	23	29	26	31	26.0
Little Sioux	Maximum	29	31	52	56	65	64	52	44	70	46	42	56	50	24	43	52	54	50	55	66	57	65	82	65	78	65	58	67	71	66	65	56.1
	Minimum	10	1	26	29	35	32	32	32	33	28	15	28	20	8	4	35	27	26	27	36	23	30	47	38	42	44	30	28	44	32	45	28.6
Marshalltown	Maximum	32	28	47	41	58	60	53	37	59	57	38	55	47	26	41	46	58	51	48	62	54	59	78	67	73	64	52	62	59	59	64	52.7
	Minimum	6	— 1	18	27	28	31	35	31	35	32	21	28	26	15	8	33	30	33	25	34	27	32	40	39	37	45	34	28	35	32	34	28.3
Olin	Maximum	31	22	44	42	48	55	55	45	53	54	37	53	48	31	36	49	58	54	47	60	58	56	70	61	67	64	52	61	58	60	62	51.3
	Minimum	10	— 4	13	21	22	29	35	30	32	31	22	25	31	19	9	31	29	31	22	27	31	30	35	43	29	37	35	24	28	31	28	26.3
Sioux City	Maximum	20	32	48	53	66	52	44	38	64	38	42	47	31	20	42	54	55	47	53	61	42	61	75	62	80	61	55	63	66	61	63	51.5
	Minimum	7	6	25	33	35	36	35	33	34	23	17	27	15	8	12	33	33	26	30	32	24	32	45	40	45	41	32	34	42	36	46	29.6
Southern Division																																	
Albia	Maximum	32	29	51	39	59	64	70	45	67	59	44	58	50	35	43	57	63	55	51	66	62	64	77	65	74	62	55	66	63	61	66	56.5
	Minimum	10	0	17	26	26	36	38	29	33	32	34	28	31	18	12	32	29	31	24	33	28	32	41	42	34	44	33	27	35	30	34	29.0
Atlantic	Maximum	24	32	52	53	66	61	53	43	71	57	44	56	51	28	47	45	53	50	52	63	58	66	80	62	76	76	57	66	68	64	66	56.1
	Minimum	13	2	20	29	30	29	34	31	33	30	20	26	22	10	3	33	26	29	23	36	25	28	45	39	38	45	31	22	32	24	32	27.1
Burlington	Maximum	36	29	47	44	54	63	75	61	69	63	42	57	50	37	43	57	62	55	52	63	61	62	77	67	72	63	55	67	58	61	69	56.9
	Minimum	14	2	17	27	25	37	39	33	35	38	27	28	35	23	16	31	35	33	27	33	33	35	43	48	35	45	37	32	36	37	34	31.3
Columbus Jct.	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Corning	Maximum	33	28	54	57	63	61	59	70	55	53	55	57	51	38	48	50	54	53	50	56	66	64	79	69	75	69	56	66	67	67	----	57.4[a]
	Minimum	9	— 1	18	30	31	31	41	31	31	----	21	22	31	12	11	33	29	24	31	25	34	30	43	39	36	36	30	24	23	24	----	26.9[b]
Corydon	Maximum	34	26	50	43	57	64	70	51	65	53	44	56	41	36	44	53	59	55	51	66	61	66	76	63	73	63	54	63	63	61	66	55.7
	Minimum	10	1	17	30	28	38	42	31	34	33	31	22	30	12	13	31	30	33	26	33	28	33	42	42	34	44	34	46	26	31	35	29.7
Fairfield	Maximum	34	26	47	40	54	63	73	46	69	59	39	57	47	36	43	57	63	53	50	66	61	62	76	63	73	63	54	64	59	61	64	55.5
	Minimum	8	1	17	19	21	35	38	31	33	32	23	21	32	20	13	31	29	32	21	33	30	32	42	40	29	40	33	27	27	29	31	27.4
Keokuk	Maximum	30	27	45	40	57	63	74	40	72	64	41	57	45	34	43	57	60	49	52	67	57	59	76	65	72	68	54	62	58	60	63	55.2
	Minimum	6	3	19	29	28	39	40	33	35	32	28	30	34	22	19	33	36	33	29	36	34	37	43	40	37	45	38	33	39	36	36	31.7
Lamoni	Maximum	31	26	51	52	60	66	67	47	66	58	44	59	48	32	46	56	61	51	52	67	55	66	77	65	74	61	55	65	68	64	69	56.7
	Minimum	9	— 1	17	30	28	36	45	31	34	32	24	25	31	13	11	30	30	33	26	31	27	32	39	41	33	42	32	27	39	30	----	28.6[a]
Sigourney	Maximum	32	26	47	43	53	55	62	49	63	55	41	55	48	33	42	54	60	54	48	64	61	59	75	64	71	61	53	61	60	60	63	53.9
	Minimum	10	— 1	17	26	25	34	36	32	32	32	22	36	32	19	12	30	29	32	34	32	30	32	40	45	34	32	33	26	31	32	33	28.7
Thurman	Maximum	33	28	51	52	65	61	56	46	69	59	48	58	53	41	51	48	52	50	52	67	65	82	74	76	70	55	62	72	63	63	69	57.8
	Minimum	12	1	17	29	31	32	36	34	36	32	24	30	26	12	12	35	27	33	25	28	35	50	42	39	45	32	28	43	29	32	44	30.9
Winterset	Maximum	31	25	52	45	62	58	56	45	67	64	45	58	50	30	45	48	58	50	52	65	56	63	78	71	74	68	55	65	63	60	66	55.6
	Minimum	6	— 1	15	28	29	32	35	30	32	29	20	30	27	11	10	31	32	25	25	25	25	28	42	38	39	46	31	25	28	31	35	27.1
Omaha	Maximum	23	29	51	52	67	60	48	40	69	47	44	57	42	21	51	46	50	46	54	64	49	66	82	61	79	60	56	63	68	63	65	54.0
	Minimum	7	6	24	39	38	37	36	34	35	28	22	32	17	11	16	36	35	30	34	40	28	38	50	41	44	42	34	40	45	36	45	32.3

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

TOTAL PRECIPITATION, MARCH, 1925



Scale of Shades—In Inches

Less than 0.5	0.5 to 1.0	1.0 to 1.5	1.5 to 2.0	More than 2.0

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. XXXVI DES MOINES, IOWA, APRIL, 1925 NO. 4

GENERAL SUMMARY

Unusually mild weather prevailed practically the entire month, and with the exception of April 1915 this was the warmest April of record. From the 1st to the 26th the temperature was continuously above normal except on an occasional day, in scattered portions of the State. An unusual feature was the fact that at a number of stations the temperature did not reach the freezing point, and there was no damage of consequence from frost. The month closed with a decided change to colder. Another unusual feature was the remarkably high minimum temperature on the night of the 21st-22d, which seemed more like a July night, and the minimum on the morning of the 22d did not go below 70° at several stations in the western portion of the State. The mild weather caused all vegetation to advance far beyond the average for the season. Fruit blossomed in some parts of the State nearly three weeks ahead of the average date, under ideal conditions. Strawberries were damaged somewhat by frost at the end of the month, but most tree fruit escaped injury. Truck gardeners generally disregarded caution and planted a large acreage of tomatoes, sweet corn and beans. Many fields of sweet corn intended for early market were more than six inches high at the end of the month. The weather was ideal for all farm work. The preparation of the soil for corn was pushed and there was considerable planting in the southern half of the State, but in a small area in the southeast the work was interrupted by too much rain. The temperature departures were remarkably uniform.

Though precipitation averaged only 0.79 inch below normal, the greater portion of the State had less than half the normal, the average being brought up by an excess in the southeast and south-central sections. The continued rain shortage in much of the State caused small streams and wells to continue to go dry and crops in large areas were badly in need of rain. Since the present dry period set in there has been but one month, December 1924, that has had more than the normal precipitation. The deficiency since last September now amounts to more than five inches. There was very little rain during the first week; thereafter rainfall occurred at frequent intervals but generally insufficient to penetrate the soil. Hail occurred on a large number of days, but it was not of a damaging nature except on the 18th, 20th, and 21st. The most severe storm occurred on the 18th in a strip running from Humboldt and Wright counties northeastward to Winneshiek, Howard, and Mitchell counties. The damage consisted mainly of broken windows, punctured roofs, and some damage to fruit buds. Stones were noted at many places as large as hen's eggs. A less severe storm also occurred over much of this area on the 20th and 21st; and on the 21st a local storm occurred in Appanoose county. These storms were accompanied by considerable wind which wrecked a number of barns and silos. Lightning was severe in localities. In Dubuque county a team of two mules and two horses were killed, but the driver escaped without being stunned; in Lee county lightning struck a barn, causing it to burn with all its contents, including four horses.

Roads were in generally good condition, except in the southeast portion, throughout the month, and all outside occupations were carried on with very little interruption.

F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 102 stations, was 56.5°, or 7.6° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows; Northern, 54.8°, or 7.7° higher than the normal; Central, 56.7°, or 7.5° higher than the normal; Southern, 58.1° or 7.6° higher than the normal. The highest monthly mean was 60.2°, at Thurman, and the lowest was 52.6°, at Osage. The highest temperature reported was 95°, at Waterloo, on the 23d, and the lowest was 21°, at Postville, on the 5th. The temperature range for the State was 74°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 105 stations, was 2.20 inches, or 0.79 inch less than the normal. By divisions the averages were as follows: Northern, 1.76 inches, or 1.01 inches less than the normal; Central, 2.12 inches, or 0.91 inch less than the normal; Southern, 2.71 inches, or 0.47 inch less than the normal. The greatest amount, 5.34 inches, occurred at Centerville, and the least, 0.71 inch, occurred at Allison. The greatest amount in any 24 consecutive hours, 2.31 inches, occurred at Fairfield, on the 24th.

(Continued on page 29)

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
1890	51.8	+2.9	88	2	1.80	—1.19	4.46	0.38	------	6	14	9	7
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	—0.75	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	0.10	3.0	7	14	7	9
1911	46.7	—2.2	86	3	3.09	+0.10	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

T. indicates an amount too small to measure, or less than .005 inch rainfall and less than .05 inch snowfall.
*New normals effective June 1, 1924.

Climatological Data for April, 1925

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	52	55.9	+ 8.3	90	22	30	6	40	2.03	—0.59	0.83	0	7	18	5	7	se.	W. E. Laird
Allison (near)	Butler	1,044	13	54.8	+ 7.5	91	22	26	5	41	0.71	—2.33	0.35	0	5	13	10	7	sw.	J. A. Bell
Alta	Buena Vista	1,513	34	55.8	+ 8.7	85	22	32	29†	42	2.73	—0.36	0.78	T.	9	13	11	6	e.	D. E. Hadden
Alton	Sioux	1,305	20	55.2	+ 8.2	84	22	29	30	40	1.92	—0.57	0.48	0	9	7	12	11	se.	W. S. Slagle
Belmond	Wright	1,205	15	55.0	+ 8.3	90	22	27	5	40	1.40	—1.86	0.50	0.5	7	7	17	6	nw.	Geo. P. Hardwick
Britt	Hancock	1,236	38	54.2	+ 8.0	90	22	25	5	44	1.32	—1.25	0.60	0	7	15	9	6	sw.	Jas. S. Ross
Charles City	Floyd	1,015	34	53.9	+ 7.5	90	22	29	5	37	1.15	—1.41	0.45	T.	11	14	9	7	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	55.0[a]	------	83[a]	21†	30[a]	30	41[a]	2.34	------	0.67	T.	10	----	----	----	se.	J. E. Wirth
Decorah	Winneshiek	875	32	------	------	------	------	22	5	41	1.23	—1.32	0.40	0	9	17	6	7	se.	M. D. Whitney
Dubuque	Dubuque	698	52	54.8	+ 6.2	88	22	27	5	34	2.17	—0.51	0.96	0	9	9	7	14	se.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	52.8	+ 7.9	84	22	26	1	42	1.30	—1.33	0.40	0	9	18	10	2	s.	A. O. Peterson
Fayette	Fayette	1,003	35	54.0	+ 7.1	91	22	23	5	43	1.33	—1.77	0.55	T.	4	18	6	6	ne.	R. Z. Latimer
Forest City	Winnebago	1,226	31	54.4	+ 8.1	89	22	27	5	42	1.62	—0.86	0.55	0	9	12	8	10	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	54.2	+ 6.3	90	22	27	2†	42	0.95	—2.24	0.30	0	8	18	6	6	se.	L. H. Davis
Humboldt	Humboldt	1,095	37	55.9	+ 7.8	89	22	30	5†	42	2.10	—0.58	0.67	0	8	12	11	7	n.	H. C. Snitkey
Independence	Buchanan	921	61	57.1	+ 8.4	90	22	24	5	44	1.96	—0.55	0.84	0	6	17	5	8	sw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	55.6	+ 8.9	84	21	28	30	41	1.56	—0.97	0.45	0	10	17	10	3	se.	A. C. Hanson
LeMars	Plymouth	1,224	29	55.8	+ 8.0	84	22	31	30	39	2.40	—0.42	0.86	0	8	19	8	3	se.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	53.1	+ 6.6	90	22	26	2†	43	1.43	—1.12	0.43	0	8	14	9	7	se.	Amer. Beet Sugar Co.
Milford (near)	Dickinson	1,430	5	54.1	------	85	22	28	29	39	1.89	------	0.80	T.	6	19	5	6	s.	S. N. McKinsey
New Hampton	Chickasaw	1,169	28	53.7	+ 6.7	90	22	25	5	48	1.64	—0.96	0.52	0	8	14	7	9	s.	A. F. Kemman
Nora Springs	Floyd	1,064	13	54.3	+ 5.9	90	22	26	5	42	1.88	—1.12	0.45	0	12	15	10	5	s.	Arthur Betts
Northwood	Worth	1,222	29	54.3[l]	+ 9.2	87[k]	22	26[m]	5	37[n]	1.15	—1.59	0.50	0	7	15	8	7	ne.	Chas. Dwelle
Oelwein	Fayette	1,036	1	55.1	------	90	22	25	5	38	0.80	------	0.30	0	4	14	11	5	s.	John T. Ridler
Osage	Mitchell	1,163	----	52.6	------	89	22	25	5	40	1.95	------	0.56	0	10	11	12	7	nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	55.2	+ 8.1	86	22	27	6	45	2.06	—0.66	0.65	T.	9	16	7	7	se.	F. E. Hronek
Postville	Clayton	1,180	26	52.8	+ 6.5	88	22	21	5	42	1.44	—1.57	0.40	T.	9	10	12	8	se.	F. L. Williams
Rock Rapids	Lyon	1,358	26	55.6	+ 9.3	84	21	30	27†	41	1.75	—1.05	0.58	0	8	17	8	5	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	54.0	+ 7.5	84	22	30	2†	44	2.86	—0.14	0.83	0	10	14	13	3	se.	J. W. Dow
Sioux Center	Sioux	1,426	26	54.7	+ 8.2	81	21†	27	30	42	2.08	—0.74	0.56	0	7	12	7	11	s.	J. de Ruyter
Spencer	Clay	1,319	11	55.2	+ 8.2	83	12†	26	3	46	1.70	—1.20	0.51	1.0	11	11	12	7	se.	E. W. Little
Storm Lake	Buena Vista	1,440	36	56.0	+ 8.6	83	22	32	30	42	2.39	—0.54	0.75	T.	10	17	9	4	e.	Geo. H. Fracker
Washta	Cherokee	1,157	27	55.8	+ 8.3	85	22	31	30	44	3.91	+1.29	1.23	0	7	16	8	6	s.	H. L. Felter
Waterloo	Black Hawk	854	42	56.4	+ 7.6	95	22	25	5	46	0.95	—1.58	0.33	0	5	16	7	7	se.	R. B. Slippy
Waverly	Bremer	936	29	55.1	+ 7.5	91	22	27	5	41	1.31	—1.60	0.45	0	9	24	3	3	se.	D. H. Murphy
West Bend	Palo Alto	1,197	32	54.9	+ 7.5	87	22	26	6	45	2.02	—0.85	0.88	0	10	12	13	5	se.	Jos. Dorweiler
Means and extremes		------	----	54.8	+ 7.7	95	22	21	5	48	1.76	—1.01	1.23	T.	8	14	9	7	se.	
Central Division																				
Ames	Story	926	48	56.6	+ 7.8	89	22	30	5†	40	0.87	—2.11	0.51	T.	8	14	9	7	se.	Iowa State College
Audubon	Audubon	1,297	30	56.2	+ 8.6	88	22	30	30	40	1.79	—1.33	0.72	0	7	12	12	6	se.	Geo. Kibby
Baxter	Jasper	998	25	56.7	+ 7.7	90	22	24	5	40	0.89	—2.17	0.25	0	5	13	12	5	s.	Henry Geise
Belle Plaine	Benton	866	35	57.5	+ 8.1	93	22	23	5	43	2.13	—1.28	0.84	0	10	10	13	7	se.	O. C. Burrows
Boone	Boone	1,134	20	56.2	+ 7.2	90	22	26	5	47	1.70	—1.18	0.64	0	8	16	4	10	s.	C. F. Henning
Carroll	Carroll	1,265	35	56.8	+ 8.3	87	22	30	5†	43	1.43	—1.52	0.78	T.	8	16	8	6	se.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	56.2	+ 5.8	94	22	24	1†	56	2.80	—0.45	0.97	0	8	9	8	13	se.	J. T. Wurster
Clinton	Clinton	595	52	55.9	+ 6.1	88	22	28	1	44	2.81	—0.23	0.85	T.	8	21	2	7	n.	Dr. A. P. Bryant
Davenport	Scott	580	54	56.6	+ 6.7	87	22	29	5	38	4.48	+1.69	1.48	0.7	11	12	9	9	e.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	57.1	------	89	22	25	5	42	4.63	------	1.37	0.8	10	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	57.2	+ 8.0	87	22	31	30	41	2.44	—0.39	1.47	T.	8	12	10	8	nw.	V. L. Byers
Des Moines	Polk	861	47	58.2	+ 8.1	88	22	33	5	36	1.64	—1.37	0.86	T.	6	7	9	14	se.	U. S. Weather Bureau
Fairport	Muscatine	567	4	57.7	------	85	22	27	5	40	3.81	------	1.03	0	11	19	4	7	sw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	55.7	+ 8.1	90	22	28	30	43	2.22	—0.52	0.66	T.	8	16	6	8	se.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	58.0	+ 8.6	90	22	30	6	41	1.66	—2.05	0.67	0	8	11	14	5	se.	Paul P. Meyers
Grundy Center	Grundy	976	34	55.8	+ 6.7	92	22	24	5	42	1.01	—2.22	0.46	0	5	11	4	15	n.	W. D. Callaway
Guthrie Center††	Guthrie	1,077	30	57.4	+ 8.0	88	22	30	6	41	1.33	—1.80	0.60	0	5	11	13	6	sw.	E. L. Nesselroad
Harlan	Shelby	1,192	26	57.0	+ 8.0	88	22	32	30	37	------	------	------	0	----	11	15	4	s.	Nels Bisgard
Iowa City	Johnson	733	65	56.0	+ 6.1	89	22	27	5	41	3.07	—0.11	1.53	0	9	10	14	6	se.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	55.0	+ 7.2	89	22	26	5	40	1.28	—1.84	0.48	0	6	12	11	7	s.	J. B. Parmelee
Jefferson	Greene	1,052	26	56.2	+ 7.7	88	22	30	5†	41	1.21	—1.64	0.51	T.	5	13	4	13	se.	W. I. Lyon
Little Sioux	Harrison	1,040	20	60.1	+ 9.6	90	22	30	30	44	2.28	—0.39	0.59	0	10	11	14	5	se.	H. W. Kerr
Logan	Harrison	1,035	58	59.4	+ 8.6	90	22	31	2	38	1.88	—0.91	0.92	0	4	15	8	7	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	------	------	87	22	23	1	46	3.48	------	1.60	0	8	12	7	11	e.	John Strodthoff
Marshalltown	Marshall	947	33	57.7	+ 8.1	92	22	29	5	39	1.52	—1.32	0.31	0	7	17	4	9	se.	C. C. Pigman
Monroe	Jasper	922	13	58.2	+ 8.1	92	22	28	5	41	1.47	—1.78	0.69	0	7	18	4	8	s.	J. A. Dibel
Olin	Jones	760	26	54.6	+ 5.4	89	22	23	5	47	3.03	+0.22	1.38	0	5	18	3	9	se.	Mrs. L. Stingley
Onawa	Monona	1,051	24	57.6	+ 7.5	87	22	33	30	38	1.79	—0.88	0.66	0	7	18	5	7	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	56.5[a]	+ 7.4	91[a]	22	25[a]	5	45[a]	1.75	—1.24	0.73	0	10	----	----	----	s.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	------	------	------	------	------	------	------	------	------	------	------	----	----	----	----	------	A. W. McIsaac
Sac City	Sac	1,278	49	55.2[d]	+ 7.4	87[e]	22	32[d]	5†	40[d]	1.69	—1.25	0.35	0	9	----	----	----	s.	F. P. Kessler
Sioux City	Woodbury	1,137	36	57.7	+ 9.9	85	22	33	30	33	1.99	—0.68	0.57	0	6	10	10	10	se.	U. S. Weather Bureau
Tipton	Cedar	807	26	55.2	+ 5.2	87	22	25	5	41	3.18	—0.06	1.73	T.	7	15	3	12	ne.	Chas. H. Obye
Toledo	Tama	856	31	57.2	+ 7.6	93	22	23	5	44	1.29	—1.77	0.56	0	7	19	4	7	se.	I. F. Giger
Waukee	Dallas	1,039	22	57.3	+ 7.9	90	22	29	5	40	1.46	—2.34	0.78	T.	9	20	6	4	se.	Samuel F. Foft
Webster City	Hamilton	1,042	20	55.2	+ 6.7	90	22	26	5	45	1.05	—1.74	0.54	0	7	15	9	6	se.	Frank A. Bonebright
Williamsburg	Iowa	765	9	55.8	+ 6.4	88	22	22	5	45	2.19	—1.16	1.46	0	6	16	10	4	nw.	Dr. F. C. Schadt
Means and extremes		------	----	56.7	+ 7.5	94	22	22	5	56	2.12	—0.91	1.73	T.	7	14	8	8	se.	

Climatological Data for April, 1925—Continued

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		
Southern Division																				
Afton	Union	1,212	31	59.6	+ 9.4	90	22	29	5	43	2.08	—1.42	0.70	0	7	11	13	6	nw.	S. R. Brown
Albia	Monroe	959	27	57.8	+ 7.1	87	22	27	5	42	2.51	—0.5	1.08	0	10	14	8	8	se.	O. E. McBride
Atlantic	Cass	1,164	34	59.4	+ 9.6	89	22	33	30	40	1.81	—1.33	0.62	0	8	12	12	6	ne.	J. N. Reynolds
Bonaparte	Van Buren	563	34	57.5	+ 6.7	85	22	26	5	37	3.25	+0.05	1.58	0	5	17	6	7	e.	B. R. Vale
Burlington	Des Moines	544	29	59.4	+ 7.3	88	22	29	5	39	4.19	+1.09	1.12	0	10	16	8	6	nw.	John W. Donnelly
Centerville	Appanoose	1,013	20	57.6	+ 5.6	84	22	26	5	37	5.34	+1.84	2.28	0	12	12	10	8	se.	Thomas Wood
Chariton (near)	Lucas	1,042	30	57.2	+ 7.7	86	22	26	5	41	2.22	—1.08	1.22	0	5	13	11	6	se.	C. C. Burr
Clarinda	Page	1,009	35	59.5	+ 8.4	87	19†	32	30	38	2.13	—0.78	0.70	0	12	19	9	2	se.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	Miss Musa Todd
Corning	Adams	1,117	33	57.5[a]	+ 8.2	85[a]	22	32[a]	5	41[a]	2.12	—1.01	0.77	0	5	----	----	----	se.	Jerome Smith
Corydon	Wayne	1,101	32	58.0	+ 7.5	86	22	30	5	40	2.75	—0.66	0.90	0	8	11	12	7	se.	A. T. Gallagher
Creston	Union	1,312	20	56.9	+ 7.4	86	22	31	5	35	1.05	—2.38	0 75	0	5	17	5	8	s.	J. W. Goodsell.
Cumberland (near)	Cass	1,225	26	------	------	------	------	------	------	------	0.98	—1.76	0.53	0	5	12	5	13	se.	Carl E. Pollock
Earlham	Madison	1,126	23	56.8	+ 8.1	85	21	28	6	44	2.12	—1.23	0.65	0	6	15	9	6	se.	Geo. Phillips
Fairfield	Jefferson	780	41	57.2	+ 7.1	87	22	23	5	41	4.22	+0.56	2.31	0	11	13	9	8	s.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	59.4	+ 8.1	86	22	35	30	34	2.42	—0.47	0.85	0	7	8	17	5	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	57.6	+ 7.1	88	22	30	5	40	1.62	—1.54	0.64	0	8	10	12	8	se.	Seth F. Shenton
Keokuk	Lee	614	54	59.1	+ 6.8	88	22	29	5	34	3.67	+0.57	1.21	0	9	8	14	8	e.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	57.2	+ 6.1	86	22	24	5	41	4.51	+1.12	1.80	T.	10	12	10	8	se.	J. H. Landes
Knoxville	Marion	920	30	58.0	+ 7.4	89	22	27	5	41	2.23	—1.17	1.00	0	7	11	10	9	se.	W. J. Casey.
Lacona	Warren	------	26	------	------	------	------	------	------	------	1.63	—1.44	0.48	0	11	7	15	8	------	J. B. Alter
Lamoni	Decatur	1,123	18	58.1	+ 7.6	85	22	30	5	38	4.04	+0.62	1.17	0	8	14	5	11	se.	Roy L. Roberts
Lenox	Taylor	1,250	30	58.2	+ 8.0	87	22	31	5	37	1.17	—2.07	0.61	0	7	14	11	5	s.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	57.0	+ 6.8	84	22	29	5	35	3.17	—0.19	0.71	0	11	10	11	9	se.	Alex Maxwell
Mt. Pleasant	Henry	729	44	58.0	+ 6.5	87	22	26	5	39	3.40	+0.43	1.55	0	10	12	9	9	ne.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	58.9	+ 8.8	85	21	32	30	40	------	------	------	0	----	22	2	6	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	57.6	+ 7.5	87	22	26	5	39	1.95	—0.90	0.96	0	7	8	11	11	se.	Roy R. Robinson
Ottumwa	Wapello	649	30	58.8	------	87	22	29	5	41	3.52	+0.61	1.92	0	12	16	4	10	se.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	----	------	------	85	22	30	5	43	2.24	------	0.68	0	10	14	9	7	se.	James A. Verploegh
Sigourney	Keokuk	790	29	57.0	+ 7.0	87	22	27	5	37	2.17	—1.11	1.21	0	6	15	7	8	se.	W. E. Utterback
Stockport	Van Buren	745	23	56.8	+ 7.0	86	22	25	5	41	4.03	+0.91	1.96	0	12	13	9	8	sw.	C. L. Beswick
Thurman	Fremont	975	28	60.2	+ 9.2	87	22	32	29	38	2.27	—0.88	0.61	0	5	5	21	4	ne.	C. R. Paul
Tingley	Ringgold	1,275	----	56.0	------	85	22	30	5	43	2.24	------	0.68	0	10	14	9	7	se.	James A. Verploegh
Washington	Washington	769	43	58.3	+ 7.6	88	22	26	5	42	4.46	+1.71	2.24	0	9	23	2	5	ne.	D. D. Sherman
Wescott (near)	Lee	------	3	58.0	------	85	22	25	1†	36	3.93	------	1.15	0	9	20	5	5	se.	Lester J. Larson
Winterset	Madison	1,129	34	58.2	+ 7.9	87	22	30	5†	39	2.26	—1.32	0.58	T.	5	17	8	5	sw.	H. S. Ely
Omaha, Nebr.		1,103	54	60.0	+ 8.8	89	22	36	30	33	1.50	—1.51	0.56	0	8	9	12	9	se.	U. S. Weather Bureau
Means and extremes		------	----	58.1	+ 7.6	90	22	23	5	44	2.71	—0.47	2.31	T.	8	13	10	7	se.	
State means and extremes		------	----	56.5	+ 7.6	95	22	21	5	56	2.20	—0.79	2.31	T.	8	14	9	7	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.

‡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							Maximum				
	Mean	Highest	Date	Lowest	Date	7 a. m.	12 Noon‡	7 p. m.	Lowest	Date	Total movement	Average hourly velocity	Miles	From	Date	Per cent of possible	Departure from normal
Charles City	30.00	30.40	5	29.59	18	73	40	48	14	2	5,111	7.1	31	se.	3	6	+ 8
Davenport	29.99	30.41	5	29.37	18	76	61	58	33	12	5,428	7.5	30	e.	20	54	— 4
Des Moines	29.96	30.38	5	29.44	18	69	42	48	20	12	6,089	8.5	40	sw.	26	63	+ 3
Dubuque	29.98	30.43	5	29.51	18	70	40	44	16	3	4,748	6.6	33	n.	14	61	+ 4
Keokuk	29.98	30.37	5	29.39	19	73	53	53	26	2	5,603	7.9	32	n.	29	61	+ 4
Sioux City	29.97	30.37	15	29.52	18	67	46	44	17	25	10,029	13.9	56	nw.	29	64	+10
Omaha, Neb.	29.95	30.37	15	29.54	18	64	42	44	18	19	6,228	8.6	48	n.	29	65	+ 7
Means and extremes	29.98	------	----	------	----	70	46	48	----	----	------	8.6	----	------	----	62	+ 4
	------	30.43	5	29.37	18	----	----	----	14	2	------	----	56	nw.	29	----	----
Normals and records	29.98	------	9th	------	20th	76	----	57	----	25th	------	9.9	----	------	25th	58	----
	------	§30.78	1918	*28.90	1898	----	----	----	¶10	1902	------	----	¶74	n.	1902	----	----

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

Daily Precipitation for April, 1925

Stations	Drainage Basin	Day of Month																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Totals
Northern Division																																
Algona	Des Moines									.45							.08		.83		.20		.05						.32	.10		2.03
Allison (near)	Cedar								T.	.07					T.			.10	T.		.12	.07							T.	.35		0.71
Alta‖	Raccoon							.01	.07	.63								.04	.78			.40		.10						.68	.02	2.73
Alton	Floyd							.04	.48	.18				T.	T.		T.		.46	.01	.11		.02	.16					.46			1.92
Belmond	Iowa							T.	.26	.21				T.	T.				T.	.10	.30	.20	T.	T.		T.			.15	.18		1.40
Britt	Iowa								T.	.18					T.		T.	.14	.60		.10		T.	T.		.02			.22	.06		1.32
Charles City***	Cedar								.05	.02				T.	.04		.27	.18	T.	.03	.08	T.	.10	T.		.06			.30	.02		1.15
Cherokee	Little Sioux								.67	.28				T.	T.		T.	.01	.46	T.	.24	.14	T.	.08		.01		.40		.05		2.34
Decorah‖	Mississippi								T.	.03				T.	.02			.20	.04	.10	.37		.04	.03		T.			.40			1.23
Dubuque***	Mississippi									.01				T.	.01			.06	.30		.07			.49	.61				.08	.54	T.	2.17
Estherville‖	Des Moines								.10	.35								.05	.15	.05	T.	.10		.07						.40	.03	1.30
Fayette	Mississippi																	.37	.05		.36					T.				.55		1.33
Forest City‖	Cedar							.02	T.	.25				.02	T.			.22		.55		.17	T.	.02			T.			.34	.03	1.62
Hampton	Cedar								.16	.14					T.			.10	T.	.26	.01	.06							.10	.12		0.95
Humboldt	Des Moines								.04	.63					.03				.63		.37	.18	T.	.02					.20			2.10
Independence	Wapsipinicon								T.	.14								.31		.08		.08			.84					.51		1.96
Inwood‖	Big Sioux							.03	.45	.17				T.				T.	.06	.22	.01	.01		.14						.07	.40		1.56
Le Mars	Floyd							.01	.86	.22				T.			T.		.44	.04	.18		T.	.15		T.			.50			2.40
Mason City	Cedar							T.	.11					T.	.07		.33		.43		.22	.01	T.						.23	.03		1.43
Milford (near)	Little Sioux								.27	.24								T.	.10		.14	T.		T.		T.			.34	.80		1.89
New Hampton	Wapsipinicon								T.	.06				T.	.08			.52	T.	.05	.16	.14	.23						T.	.40		1.64
Nora Springs	Cedar								.10					.08	.19		.41	.01	.07	.06	.31	.04	.09			.07			.45			1.88
Northwood	Cedar								.05	.15				.10	.10				.50		.20									.25		1.35
Oelwein	Wapsipinicon																	.30	.20		.10			.20								0.80
Osage	Cedar									.07				.10	.03			.56	.37	.05	.32	T.	.19	T.	T.	T.			.05	.21		1.95
Pocahontas	Des Moines								.15	.21					.02		T.		.65		.20	.42		.02					.35	.04		2.06
Postville	Mississippi									.03					.08			.22	.19		.15	.14	T.		.16		.07		T.	.40		1.44
Rock Rapids	Big Sioux							T.	.30	.41								.02		.10	.12		T.	.19					.58	.03		1.75
Sanborn	Floyd							.25	.40	.43									.48	.06	.11	.10	.03	.48					.52	T.		2.86
Sioux Center	Floyd							.21	.47	.15				T.	T.		T.		.56		.15		T.	.12					.42			2.08
Spencer	Little Sioux							.01	.19	.32								.02	.33	.05	.15	.01		.11					.36	.15		1.70
Storm Lake	Raccoon							T.	.41	.27				.01				.04	.75		.16	.06		.16					.46	.07		2.39
Washta	Little Sioux							T.	.86	.55							T.		1.23	T.	.25	.35		.12					.55			3.91
Waterloo‖	Cedar									.05						T.		.22				.05			.30	T.				.33		0.95
Waverly	Cedar								.08	.05					T.			.26	.08		.20	.02			.13		.04			.45		1.31
West Bend	Des Moines								.09	.45					T.		T.	.02	.88	.01	.11	.04	T.	T.		.02			.32	.08		2.02
Central Division																																
Ames	Skunk								.24	.27				.01	T.			.08				T.		.01	.08		T.		.13	.05		0.87
Audubon	Nishnabotna		T.					.02	.72	.16				.36			T.					.05		.12					.36			1.79
Baxter	Skunk								.25	T.					T.		.09												.20	T.		0.89
Belle Plaine	Iowa								.02	.33				T.	.02			.22						.01	.84	.34			.16	.17	.02	2.13
Boone‖	Des Moines								.43	.64				.11	T.			.08				.05	T.		T.	.02				.34	.03	1.70
Carroll‖	Raccoon							.05	.78	.16					.02			.04	T.			.05								.30	.03	1.43
Cedar Rapids‖	Cedar									.36				T.				.24		.32					.97	.47	.03			.37	.04	2.80
Clinton	Mississippi									.08	.07			.03				.35		.85				.44	.28					.71	T.	2.81
Davenport***	Mississippi								T.	1.03				.04	.01		.22	.05	T.	1.48	T.			.16	.62		.01		.16	.70	T.	4.48
Davenport (No. 2)	Mississippi									.90	.15			.06	T.	.01		.23		1.37					.83	.05				1.02	.01	4.63
Denison	Missouri							T.	1.47	.05				.03			T.		.12		.13			.26					.34	.04		2.44
Des Moines***	Des Moines							T.	.86	T.				.04	T.	T.	T.					T.		.16	.32	T.			.23	.03		1.64
Fairport	Mississippi									.95	.05			.08				.06		.60		.03			1.03	.05	.06			.87	.03	3.81
Fort Dodge‖	Des Moines								.25	.53								.66		.16		.29	.02				.02			.29		2.22
Grinnell	Iowa								.05	.14					T.			.08							.67	.46	.02		.12	.12		1.66
Grundy Center	Cedar								T.	.16	T.			T.	T.			.16	T.		T.	T.			.23	T.			.12	.34		1.01
Guthrie Center	Raccoon								.60	.28				.20			T.												.18	.07		1.33
Harlan	Nishnabotna								**	**														.01					.35			**
Iowa City‖	Iowa									.63	.04			T.	T.			.20		.01					1.36	.17	.07			.50	.09	3.07
Iowa Falls‖	Iowa								.10	.32					T.			.18	T.	T.		.15	.33		T.		T.			T.	.20	1.28
Jefferson	Raccoon							T.	.43	.51				T.	T.	T.	T.	.03	T.		T.			T.					.16	.08		1.21
Le Claire‖	Mississippi										.78				.08	.02		.30	T.	.67					.55	.32				.51	.31	3.54
Little Sioux	Little Sioux		.11					.33	.52	.13				.37					.08	.05	.01			.09					.59			2.28
Logan	Missouri									.92				.25							.06								.65			1.88
Maquoketa	Maquoketa									.07	.01			.01				.34	.45	T.		T.			1.60	.06				.94		3.48
Marshalltown‖	Iowa								.31	.23				T.	T.			.19		T.		T.			.29	.11	T.			.20	.19	1.52
Monroe	Des Moines								.04	.25				T.	T.		T.							T.	.69	.08	.11		.27	.03		1.47
Muscatine‖	Mississippi									.05	.80					.01		T.		.88		.03			1.12	.37	.05			.54	.26	4.11
Olin	Wapsipinicon									T.								.33		.55					1.38	.07				.70		3.03
Onawa	Missouri	T.	T.						.53	.13				.06					.22		.15			.15					.55			1.79
Perry	Raccoon								.46	.73				.02	.07		.01	.03				.04			.03			.14		.22		1.75
Rockwell City	Raccoon																															
Sac City	Raccoon							T.	.25	.21				T.			.02		.35		.27	.08		.12					.27	.12		1.69
Sioux City***	Missouri							T.	.57	.02							T.		.57		.23		T.	.14					.46			1.99
Tipton	Cedar									.43	.15			.16											1.73	.02	.03			.66			3.18
Toledo	Iowa								T.	.13					T.			.18		T.					.56	.15			.05	.20	.02	1.29
Van Meter‖	Raccoon								.03	.85	.03				.02										.06	.37	.05			.20	.06	1.67
Waukee	Raccoon							T.	.54	.24				.10	T.	T	T.	T.	.03					.06	.11	T.	.07			.20	.11		1.46
Webster City	Des Moines									.24	.30							.10	T.	T.	.11	.05								.13	.12		1.05
Williamsburg	Iowa									.01	.31				T.			.15							1.46	.11				.15			2.19

Daily Precipitation for April, 1925—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	
Southern Division																																
Afton	Grand								.62	.70				T.		T.						.18		.13	.22				.20	.03		2.08
Albia‖	Des Moines							T.	.13	.52	.06				T.	T.		T.			.07	.07			1.08	.26	.03			.22	.07	2.51
Atlantic‖	Nishnabotna		.17	.04				T.	.50	.24				.03							.01			T.		.62			.20		1.81
Bonaparte	Des Moines								T.	.65				T.		T.		.06		.70					1.58				T.	.26	T.	3.25
Burlington‖	Mississippi									.96	.06			.05				.16		.54		.14			.58	1.12				.33	.25	4.19
Centerville	Chariton							T.	.22	.77	.02			T.		.02			.01	.17		1.08		T.	2.28	.19	.41		.12	.05		5.34
Chariton (near)	Chariton							T.	.22	.46				T.		T.									1.22	.12			.20			2.22
Clarinda‖	Nodaway		.15	.05				.22	.70	.24							.01			.02		.05			.01	.17	.10			.41		2.13
Columbus Jct.	Iowa																															
Corning	Nodaway		.18					T.	.77	.06												.25	T.		.67		*		.25			2.12
Corydon	Chariton							.23		.90										.05		.43		.71	.29				.12	.02		2.75
Creston‖	Missouri								.25	.50						T.						.02				.05			.23			1.05
Cumberland (near	Nodaway		.08	T.				T.	.53	.03				T.		T.						T.		T.	T.		.09		.25	T.		0.98
Earlham	Des Moines		T.						.65	.64				T.	T.								T.	.48		.15			.13	.07		2.12
Fairfield	Skunk								T.	.56	.10			.06	T.			.08		.56		.12			2.31	.06	.15	T.	.17	.05		4.22
Glenwood	Missouri		.26	.10					.85	.15														.10			.40		.56			2.42
Indianola	Des Moines							T.	.47	.17	T.							T.						.29	.13	.03	.20		.27	.06		1.62
Keokuk***	Mississippi								.08	.65				.09		T.	T.	.27		.78		.28			1.21			T.	.12	.19		3.67
Keosauqua	Des Moines								.04	.97	.16			.12				.10		.65		.39			1.80		.12		T.	.16		4.51
Knoxville	Des Moines							T.	.30	.40					T.			T.							1.00	.20	.10		.18	.05		2.23
Lacona	Des Moines							.01	.19	.21	.07				.01									.48	.03	.21	.02		.27	.13		1.63
Lamoni‖	Grand		.27						.44	.20												1.15			1.17	.65	.06			.10		4.04
Lenox	Missouri		.10					T.	.61													.01		.03	.11		.04		.27			1.17
Mt. Ayr	Grand		.08	.03				T.	.71	.63						T.						.46		.71	.04	.21	.13		.15	.02		3.17
Mt. Pleasant	Skunk								.02	.88	.04							.14		.33		.09		*	1.55	.01	.04			.30	T.	3.40
Oakland	Nishnabotna		.11						**	**																			.37			**
Oskaloosa	Des Moines							T.	.08	.60	T.			T.	T.		T.	T.	T.			T.	T.	T.	.96	.06	.07		.07	.11	T.	1.95
Ottumwa	Des Moines								.08	.57	.08			.03		T.		T.		.06		.19			1.92	.07	.19		.05	.13	.15	3.52
Red Oak (near)	Missouri		.03						.90	.14	.18							.05	T.			.40		T.					.30			2.00
Sigourney	Skunk								T.	.50	T.			T.	T.					T.		T.			1.21	.10	.10		.07	.19	T.	2.17
Stockport	Skunk								.05	.83	.17			.06		.06		.08		.43		.11			1.96		.06		.07	.15		4.03
Thurman	Missouri		.42					T.	.61	.54				T.		T.				T.	T.			.10			T.		.60			2.27
Tingley	Platt		.12	.02				T.	.44	.68				T.	T.							.14		.43	.02	.17	.05		.17	T.		2.24
Washington	Skunk								T.		.72			.28	T.			.01		.74		.02			2.24		.08			.36	.01	4.46
Wescott (near)	Mississippi									1.00				.09	.01			.15		.61		.26			1.15				.23	.43		3.93
Winterset	Des Moines		T.					T.	.58	.95					T.									.10	.28				.35			2.26
Omaha, Neb.***	Missouri		.33					.03	.53	.10				.02		T.			.02		T.	T.		.02					.45			1.50

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 at 7:00 p. m. from the 1st to 15th inclusive. During the rest of the month the amounts are for the 24 hours ending at 7:00 a. m. on the date the amounts are entered.

‖‖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 25)

SNOWFALL

The average snowfall for the State was a trace, this year being the fifth year in the history of the State's weather that the April average has been less than 0.1 inch. The normal for the State is 1.8 inches. Only three stations, Belmond, Spencer and Davenport, reported more than a trace and about three-fourths of the Stations reported no snow whatever.

MISCELLANEOUS PHENOMENA

Fog: 9th, 18th.

Frost (light): 1st, 2d, 3d, 5th, 6th, 15th, 16th, 27th, 28th, 29th, 30th; (heavy): 5th, 15th, 27th, 29th, 30th; (killing): 2d, 3d, 5th, 6th, 15th, 16th, 29th 30th.

Hail: 7th, 14th, 18th, 19th, 20th, 21st, 22d, 24th, 26th, 27th, 28th, 29th.

Halos (lunar and solar): 1st, 2d, 3d, 4th, 7th, 16th, 18th, 21st, 23d, 26th, 28th.

Haze: 4th, 18th, 22d.

Rainbows: 13th, 23d, 25th.

Sleet: 19th, 29th.

Thunderstorms: 7th, 8th, 9th, 13th, 14th, 16th, 18th, 19th, 20th, 21st, 22d, 23d, 24th, 25th, 26th, 28th.

Winds (high): 3d, 6th, 14th, 18th, 20th, 21st, 22d, 23d, 26th, 29th.

RIVERS

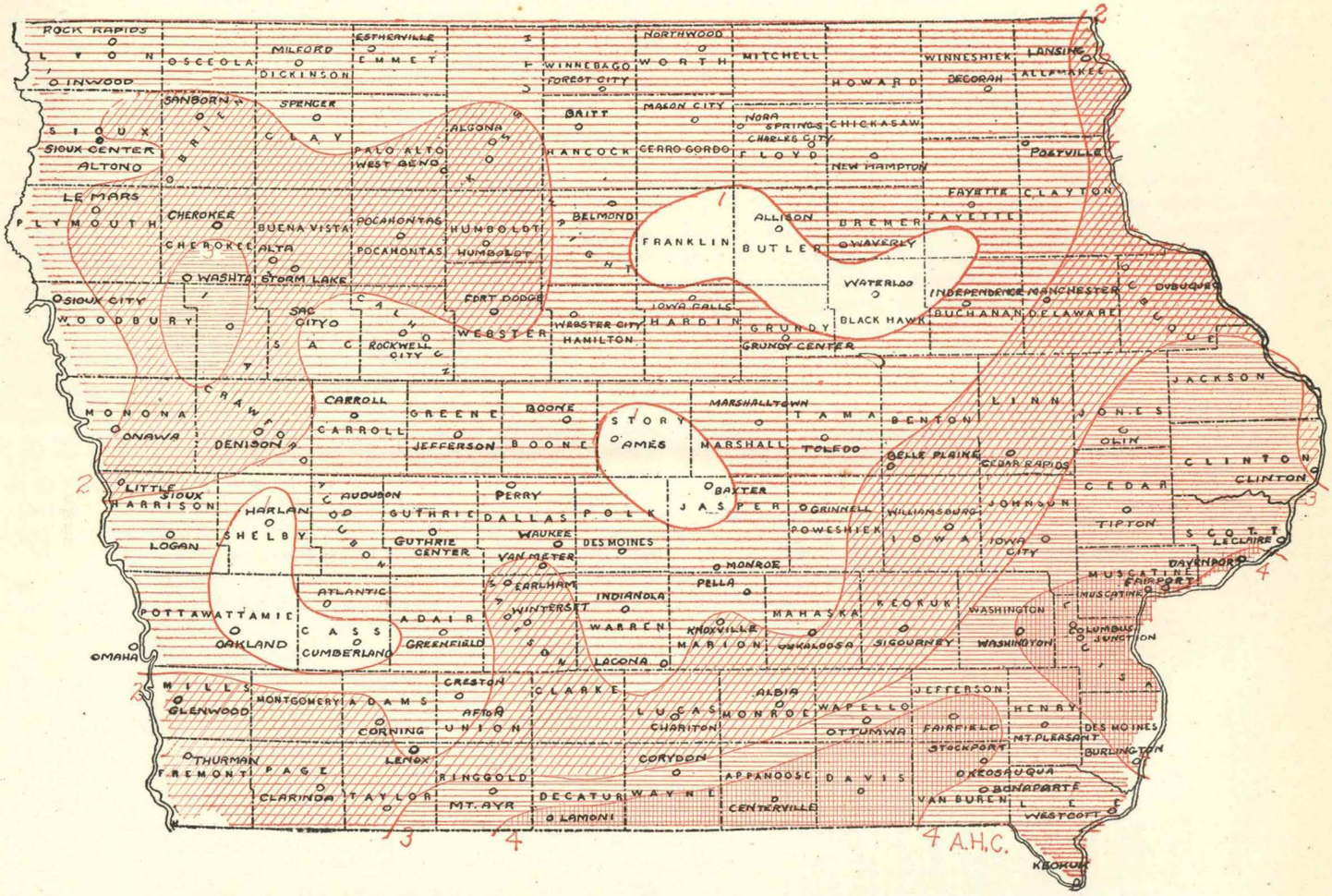
Low stages prevailed on the Mississippi and all interior rivers. The highest stages prevailed during the first week after which there was a gradual fall on the interior rivers but a moderate rise occurred on the Mississippi during the third and fourth weeks. Moderate stages prevailed on the Missouri River with a rather sharp rise during the first week, the total rise amounting to more than 6.0 feet and a rise in a single day of more than 2.5 feet. After the first week there was a gradual fall except a slight rise occurred during the latter part of the third week.

Daily Maximum and Minimum Temperature for the Month of April, 1925

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	Total
Northern Division																																
Algona	Maximum	67	67	71	71	70	70	72	61	57	76	71	81	75	60	66	65	63	60	67	60	78	90	81	73	75	71	65	57	48	59	68.2
	Minimum	39	47	51	34	35	30	47	50	45	41	50	50	45	35	48	37	39	40	43	43	42	65	60	60	47	41	39	40	33	33	43.6
Alta	Maximum	68	67	72	67	67	74	78	59	58	77	79	83	73	64	60	68	68	56	69	55	84	85	74	74	79	65	70	51	47	55	68.2
	Minimum	36	39	44	35	34	34	47	46	45	44	48	49	52	42	38	41	45	47	45	41	42	66	59	55	49	42	41	36	32	32	43.5
Alton	Maximum	69	65	67	63	64	71	73	67	58	75	76	80	72	63	60	65	69	65	68	60	82	84	79	74	77	70	66	59	52	55	68.3
	Minimum	38	35	39	35	34	35	48	48	45	35	42	41	41	36	37	36	47	49	44	45	43	68	59	50	40	58	36	38	34	29	42.2
Belmond	Maximum	66	67	69	60	60	70	73	69	55	76	78	82	80	71	61	67	63	55	68	55	77	90	83	76	69	72	65	55	49	61	68.1
	Minimum	37	34	37	38	27	30	44	45	44	40	48	44	54	38	30	34	44	46	44	41	42	63	63	61	43	43	36	40	33	33	41.9
Charles City	Maximum	65	69	70	58	57	67	74	60	57	75	76	82	75	71	58	67	62	52	63	45	77	90	84	72	77	64	63	56	56	60	66.7
	Minimum	34	32	35	37	29	31	43	48	45	39	49	48	48	34	32	32	45	43	42	40	42	60	63	56	46	43	35	34	34	34	41.1
Dubuque	Maximum	65	69	67	55	55	64	74	69	58	72	76	81	75	74	59	66	61	71	53	49	67	88	85	72	77	67	61	58	48	57	66.4
	Minimum	31	36	37	35	27	32	40	49	49	45	48	47	48	41	36	35	47	44	42	42	43	57	61	57	54	52	45	41	40	38	43.3
Forest City	Maximum	65	68	73	66	57	68	70	62	59	76	76	82	76	67	60	68	62	60	65	62	75	89	81	75	77	68	63	60	48	57	67.8
	Minimum	37	35	41	34	27	33	42	47	43	44	47	40	42	39	32	33	43	45	40	39	40	62	60	59	45	41	35	37	33	33	40.9
Independence	Maximum	67	67	70	67	61	67	75	74	68	74	77	81	80	77	75	68	68	70	65	63	78	90	89	82	80	73	73	64	61	60	72.1
	Minimum	31	37	35	35	24	30	40	57	44	41	58	40	57	49	31	31	44	46	41	37	42	48	62	60	48	42	48	38	32	34	42.1
Inwood	Maximum	69	65	69	64	65	68	71	56	60	79	78	84	76	66	60	64	70	76	70	58	84	82	75	75	77	67	67	53	55	60	68.8
	Minimum	38	48	39	35	35	38	47	49	45	42	42	52	44	37	37	38	46	50	39	44	43	68	59	49	42	35	34	39	32	28	42.5
Mason City	Maximum	65	69	71	59	57	67	71	62	55	75	71	83	75	68	58	68	62	55	63	55	75	90	83	75	78	68	66	57	51	58	67.0
	Minimum	35	26	29	35	26	27	41	43	44	39	34	45	52	33	29	28	42	44	40	38	41	62	62	61	44	42	31	36	34	33	39.2
Milford (near)	Maximum	74	68	66	60	63	73	75	58	55	76	75	81	72	58	58	62	67	63	67	55	81	85	73	73	76	71	64	57	44	55	66.8
	Minimum	63	31	36	43	35	42	43	41	40	40	45	43	54	34	29	38	41	45	45	42	42	52	59	52	44	40	29	35	28	31	41.4
New Hampton	Maximum	68	69	69	62	59	65	76	68	58	75	75	82	72	72	58	68	63	58	60	56	74	90	84	72	77	68	68	58	52	60	67.9
	Minimum	32	37	40	35	25	27	28	47	42	41	46	47	37	37	30	31	43	44	40	40	38	57	56	59	44	44	36	36	32	34	39.5
Northwood	Maximum	65	----	----	68	----	57	72	----	----	73	73	79	72	61	55	----	----	----	----	----	----	71	87	83	73	73	63	----	59	53	58	68.2[k]
	Minimum	33	----	----	31	26	----	38	----	----	----	41	49	46	36	31	----	----	----	----	----	----	38	----	67	60	47	41	----	35	35	32	40.4[m]
Pocahontas	Maximum	67	67	71	61	62	72	74	65	59	78	76	82	76	65	60	65	65	58	68	57	82	86	79	75	79	67	65	59	45	58	68.1
	Minimum	37	33	37	36	42	27	46	48	46	45	49	45	54	38	32	35	43	47	44	42	42	65	59	58	45	42	33	36	32	31	42.3
Postville	Maximum	65	69	68	57	56	65	72	63	58	73	75	81	78	73	58	68	61	56	54	54	72	88	84	73	76	66	61	58	50	59	66.4
	Minimum	27	33	36	34	21	28	35	47	41	38	52	48	43	39	28	26	43	41	39	37	38	52	66	59	48	45	35	36	33	32	39.3
Central Division																																
Belle Plaine	Maximum	69	72	73	62	60	63	79	72	58	77	81	86	81	80	64	70	60	80	73	63	80	93	88	71	79	72	63	61	52	61	71.4
	Minimum	35	40	37	37	23	33	47	52	47	38	48	43	52	41	35	33	46	50	45	42	46	63	66	61	48	49	42	38	37	35	43.6
Boone	Maximum	69	68	70	63	62	71	75	66	56	78	80	82	81	74	63	67	64	71	73	59	85	90	82	71	79	72	68	54	49	61	70.1
	Minimum	33	35	36	37	26	27	45	47	49	40	49	35	53	36	33	30	47	49	46	45	47	68	64	62	41	46	39	35	35	33	42.3
Carroll	Maximum	68	65	64	66	63	73	75	66	57	77	78	81	79	76	63	70	70	60	69	62	85	89	80	76	82	74	71	60	47	57	70.1
	Minimum	38	35	37	36	30	30	48	51	49	42	59	47	41	42	34	39	45	48	45	46	50	71	60	59	46	42	39	37	32	31	43.6
Cedar Rapids	Maximum	72	74	72	64	60	72	84	76	69	79	81	87	81	79	68	71	68	82	71	59	79	94	90	78	79	71	65	61	51	63	73.3
	Minimum	24	26	28	31	24	27	34	48	43	37	48	31	46	37	34	28	43	42	43	38	44	59	62	59	46	51	42	32	34	34	39.2
Davenport	Maximum	66	68	67	58	57	69	76	73	56	74	79	81	69	76	61	69	60	82	62	55	72	87	84	73	79	70	60	61	46	57	68.2
	Minimum	37	41	42	34	29	31	43	51	46	45	51	47	47	50	39	42	47	50	45	42	45	59	64	61	55	55	47	40	33	36	45.1
Des Moines	Maximum	65	65	69	64	60	70	74	65	55	77	79	81	79	77	62	67	62	79	73	58	84	88	81	67	78	70	63	53	48	60	69.1
	Minimum	40	42	49	42	33	34	50	54	51	44	54	51	56	45	41	43	49	49	48	47	51	68	63	53	52	51	48	38	36	36	47.3
Ft. Dodge	Maximum	68	69	73	66	61	73	75	71	58	76	78	83	78	71	62	67	63	59	68	60	82	90	84	75	81	71	67	61	47	59	69.8
	Minimum	38	34	36	35	29	29	49	48	45	41	50	40	55	39	32	34	43	47	41	43	42	65	60	59	41	41	36	36	32	28	41.6
Grinnell	Maximum	68	70	70	67	61	71	76	71	57	75	80	83	80	77	62	68	64	78	70	67	82	90	84	75	78	74	65	60	50	61	71.1
	Minimum	34	38	45	36	37	30	45	54	47	42	49	49	54	44	36	41	45	46	44	42	47	64	65	60	49	48	43	40	35	35	44.8
Guthrie Center	Maximum	66	59	70	70	64	71	74	68	55	77	77	81	79	71	62	68	66	69	72	66	85	88	80	74	80	74	67	61	45	57	69.9
	Minimum	39	38	41	36	31	30	48	51	49	44	54	45	54	46	37	38	48	49	47	42	47	68	66	60	47	44	42	37	33	32	44.8
Iowa City	Maximum	66	57	69	61	57	69	76	73	66	74	79	81	75	76	61	66	61	72	68	58	75	89	85	74	74	69	62	59	49	58	68.6
	Minimum	30	32	35	37	27	31	44	51	47	42	49	40	50	43	35	33	47	50	45	42	48	62	64	60	50	54	46	37	37	34	43.4
Iowa Falls	Maximum	66	68	71	65	59	68	73	68	55	76	78	82	80	74	61	66	62	61	68	60	77	89	83	73	77	72	64	60	51	59	68.9
	Minimum	35	31	36	36	26	28	42	44	45	40	50	42	53	35	30	30	42	46	42	40	43	63	64	61	43	45	38	33	34	33	41.0
Little Sioux	Maximum	69	64	73	72	68	74	74	70	56	80	83	83	80	77	72	70	76	73	76	65	87	90	80	77	84	73	73	73	57	62	73.7
	Minimum	47	47	43	40	40	42	49	52	48	36	49	48	50	45	39	44	54	51	51	54	50	68	60	52	41	41	49	40	35	30	46.5
Marshalltown	Maximum	68	70	71	62	60	70	77	70	56	75	79	85	79	76	62	67	61	75	70	62	81	92	86	68	79	71	65	59	49	61	70.2
	Minimum	37	37	43	38	29	31	47	52	48	42	53	51	57	45	37	37	46	49	45	43	47	65	65	62	50	49	41	38	36	35	45.2
Olin	Maximum	67	71	69	61	58	66	75	71	65	75	80	83	76	77	68	70	66	76	72	53	69	89	84	72	78	69	64	59	53	59	69.7
	Minimum	25	29	31	36	23	28	32	45	48	40	43	36	45	39	35	28	45	48	35	39	43	50	61	59	48	55	42	35	32	33	39.6
Sioux City	Maximum	67	61	69	64	63	70	73	57	59	79	78	81	71	66	60	66	69	73	70	57	81	85	71	75	78	66	66	52	54	56	67.9
	Minimum	48	46	46	39	42	42	54	49	48	47	56	54	54	45	45	44	52	49	46	47	48	65	61	55	47	44	47	38	35	33	47.5
Southern Division																																
Albia	Maximum	68	66	68	65	64	73	79	71	56	76	80	83	78	78	62	69	60	84	75	65	83	87	83	67	81	72	65	56	47	62	70.8
	Minimum	35	40	44	38	27	31	46	52	47	40	49	49	55	44	35	40	46	49	44	45	55	63	59	58	49	50	45	39	35	33	44.7
Atlantic	Maximum	68	63	72	65	65	72	78	74	57	76	79	83	79	79	63	68	70	73	73	67	85	89	81	75	81	75	68	58	54	57	71.6
	Minimum	45	44	52	41	34	37	51	52	49	43	52	43	55	51	38	39	51	52	48	50	47	67	64	60	48	46	46	41	35	33	47.1
Burlington	Maximum	65	71	68	62	61	72	79	73	62	73	81	82	74	78	70	69	63	85	77	63	77	88	84	78	81	72	66	62	56	54	71.5
	Minimum	35	40	42	39	29	33	49	54	50	45	53	46	58	52	41	42	48	53	47	44	52	63	66	62	53	57	51	41	39	37	47.4
Columbus Jct.	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Corning	Maximum	68	56	----	69	68	70	72	62	57	76	79	82	81	79	62	70	68	78	76	72	84	85	80	70	79	67	65	56	59	58	70.6[a]
	Minimum	33	45	----	34	32	33	50	50	53	42	49	45	40	48	34	34	40	52	47	48	55	64	60	54	46	47	46	39	33	35	44.4[a]
Corydon	Maximum	67	58	68	62	62	72	76	64	56	75	81	82	78	78	72	66	62	82	76	67	83	86	80	70	81	74	64	58	46	59	70.2
	Minimum	35	41	47	39	30	32	47	52	49	42	50	48	55	46	35	37	42	49	45	47	55	66	65	60	51	52	47	38	35	33	45.7
Fairfield	Maximum	68	70	68	61	61	70	79	74	58	75	78	82	74	78	60	68	62	83	76	59	80	87	84	71	77	68	61	58	52	57	70.0
	Minimum	32	35	39	38	23	29	46	52	48	40	50	43	54	46	36	36	47	50	45	43	54	63	64	59	51	56	47	35	37	35	44.4
Keokuk	Maximum	66	68	66	61	58	69	77	71	60	75	81	81	71	77	60	65	56	85	71	66	79	88	84	77	81	73	61	62	47	57	69.8
	Minimum	37	45	44	38	29	35	47	53	51	47	56	47	58	52	43	44	48	52	48	45	54	65	70	60	58	60	49	40	39	38	48.4
Lamoni	Maximum	69	55	69	66	65	73	75	60	59	76	80	84	78	77	68	68	69	81	75	71	84	85	78	66	80	67	66	53	46	58	70.0
	Minimum	41	43	48	39	30	35	50	51	50	43	49	49	56	44	35	40	49	51	48	48	54	64	59	59	49	49	47	39	35	32	46.2
Sigourney	Maximum	67	69	68	64	59	69	77	70	57	75	79	81	78	77	62	66	61	80	75	62	80	87	81	73	78	68	63	56	51	57	69.7
	Minimum	34	38	42	38	27	32	44	52	47	42	49	46	53	46	35	36	48	49	45	43	52	62	65	59	49	49	46	38	38	35	44.6
Thurman	Maximum	67	63	68	67	64	71	72	68	61	75	79	81	81	79	70	67	72	72	75	72	84	87	83	74	81	79	72	68	62	57	72.4
	Minimum	49	44	45	41	38	43	55	52	50	43	51	45	56	42	41	40	49	55	49	53	60	71	65	59	44	49	47	41	32	33	48.1
Winterset	Maximum	68	66	70	64	65	72	77	70	54	78	78	82	80	80	63	68	65	80	75	62	85	87	82	72	80	74	65	60	48	60	71.0
	Minimum	41	34	45	40	30	33	53	52	45	42	54	53	56	47	37	41	49	49	49	46	49	68	63	50	49	50	40	38	30	30	45.4
Omaha	Maximum	67	56	69	68	65	71	73	57	55	77	78	82	77	80	62	67	72	68	73	69	83	89	73	76	81	67	68	55	55	55	69.6
	Minimum	48	46	48	45	42	43	55	53	50	47	56	57	58	47	46	45	54	54	52	56	55	69	64	59	54	49	50	39	38	36	50.5

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

TOTAL PRECIPITATION, APRIL, 1925



Scale of Shades—In Inches.

Less than 1	1-2	2-3	3-4	More than 4

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. XXXVI DES MOINES, IOWA, MAY, 1925 No. 5

GENERAL SUMMARY

The month was characterized by great extremes and numerous sudden changes in temperature. While neither the maximum nor the minimum equaled the record for the State for May, a great many stations in the northern and central divisions reported the highest record for May and the low temperatures that occurred during the last week of May were the lowest ever recorded so late in the season. Following the abnormally high temperature on the 22d, occurred the most remarkable drop that ever occurred in the State, except in winter. The greatest drop of 78° occurred at Webster City, falling from a maximum of 102° on the afternoon of the 22d, to 26° on the morning of the 25th, a period of about 60 hours. Over a large area in the northeastern portion of the State the drop amounted to more than 65° in a period of 36 hours, thus within this short period the high and low record for this section of the State was broken. Frost of varying degrees occurred with unusual frequency till the 27th, causing severe damage to all vegetation susceptible to frost damage. Some truck crops were completely destroyed, the damage being particularly heavy to tomato plants and beans. After the first killing frost occurred many truck gardeners replanted after each killing frost, so that in some parts of the State the tomato crop was wiped out for the third time. One field of 1,500 acres had 700 acres killed at Muscatine. The loss was heavy in all sections of the State and there was fear that there would not be sufficient plants to replace those killed. The frost seriously injured all fruit. Grapes were generally killed early in the month but they had recovered and were putting out the second shoots when the hard freeze of the 25th again killed them in a large portion of the State. Strawberries went through almost the same adversities as grapes and in portions of the State they will be almost a total failure. Blackberries and raspberries also suffered from the frost.

Also, this was the 5th consecutive month that the precipitation has been below normal, being the driest May of record. The deficiency was the greatest of record for any month, and the five-month period is the driest of all similar periods of record. The total for the last five months has been 5.51 inches as compared to a normal of 11.63 inches. An unusual feature in connection with the lack of rain is that last May was the second driest May, with a total of 0.55 inch more than this month. The month was favorable for all out door work but detrimental to practically all crops.

Corn planting was completed and much of the early planted was cut to the ground by frost, but it generally made a good recovery. In some of the drier sections the soil was too dry for the corn to germinate, but notwithstanding the generally unfavorable conditions there was only a small per cent of replanting necessary, and the general condition was better than a year ago, and compared favorably with the normal condition at the end of May. Wheat, oats, and grasses were affected by the dry weather. In some sections of the State winter wheat was injured beyond recovery; oat fields were heading that were not over six inches high; meadows were making no growth; pastures were burned brown; and cattle in sections of the State were being grazed along roadsides. The extremely dry conditions in connection with the strong winds on numerous days caused the soil to drift and cover up growing crops and other fields had the soil blown away from the roots. The protracted dry weather caused a further drying up of small streams and wells, necessitating the hauling of water. There were very few storms of a damaging nature, though a rather severe hail storm, ranging from 6 to 10 miles wide, and from 10 to 15 miles long, occurred in the vicinity of Sioux City. The hail accompanied a heavy downpour that flooded numerous basements and caused the collapse of a building under construction. Greenhouses also suffered from the hail. The storm caused a loss of about $30,000.

The unusual features of the month are well set forth in the following brief notes by the Official in Charge of the Weather Bureau Office in Dubuque, where one of the longest records in the State is available:

"Both the high and low temperature records for the season of the year were broken within a two-day period; mean daily range for the month set a new record; precipitation was the lowest of record for three-quarters of a century; snowfall occurred the latest of record; sunshine the greatest

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
1890	57.7	—2.5	90	26	3.56	—1.05	6.44	1.61	------	9	10	13	8
1891	58.3	—1.9	94	21	3.18	—1.43	7.10	1.46	------	8	14	9	8
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	58.3	—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	97	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	3.33	—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	64.9	+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	1.82	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	—6.1	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

T. indicates an amount too small to measure, or less than .005 inch precipitation and less than .05 inch snowfall.
*New normals effective June 1, 1924.

Climatological Data for May, 1925

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	52	57.8	—1.4	98	22	28	6	36	0.99	—3.29	0.65	0	3	25	3	3	se.	W. E. Laird
Allison (near)	Butler	1,044	13	56.0	—2.7	100	22	28	6†	44	1.73	—3.36	0.88	T.	7	20	8	3	sw.	J. A. Bell
Alta	Buena Vista	1,513	34	57.6	—1.0	94	22	26	6	37	1.08	—3.83	0.75	T.	7	18	10	3	w.	D. E. Hadden
Alton	Sioux	1,305	20	56.8	—1.8	95	20	22	6†	45	0.31	—4.51	0.16	0	8	10	17	4	s.	W. S. Slagle
Belmond	Wright	1,205	15	57.0	—1.6	101	22	25	6	42	1.00	—4.21	0.44	0	8	5	23	3	nw.	Geo. P. Hardwick
Britt	Hancock	1,236	38	55.9	—2.1	99	22	27	6	43	1.08	—3.82	0.63	0	6	22	5	4	sw.	Jas. S. Ross
Charles City	Floyd	1,015	34	55.2	—2.6	99	22	29	7	42	1.38	—2.99	0.87	0	10	16	11	4	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	56.5[a]	------	95[a]	20	25[a]	6	41[a]	0.94	------	0.30	0	8	----	----	----	s.	J. E. Wirth
Decorah	Winneshiek	875	32	54.2	—4.2	95	22	23	7	46	1.48	—3.18	0.78	0	8	20	7	4	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	56.0	—4.3	94	22	34	25	41	0.96	—3.06	0.43	T.	8	12	14	5	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	55.2	—1.8	98	22	24	17	44	0.57	—3.90	0.15	0	6	22	6	3	s.	A. O. Peterson
Fayette	Fayette	1,003	35	55.4	—2.6	96	22	25	7	41	2.27	—2.59	1.22	0	9	23	7	1	nw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	55.7	—2.4	97	22	26	6	40	1.64	—3.00	0.81	0	7	20	8	3	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	56.0[b]	—3.5	98[b]	22	26[b]	6	40[b]	1.24	—3.76	0.55	0	7	18	10	3	sw.	L. H. Davis
Humboldt	Humboldt	1,095	37	57.0	—3.0	100	22	27	6†	42	1.10	—3.22	0.82	0	3	17	11	3	n.	H. C. Snitkey
Independence	Buchanan	921	61	56.6	—3.0	99	22	29	7	44	1.29	—2.98	0.52	0	6	19	6	6	nw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	57.9	+0.2	98	22	24	6	46	0.60	—3.60	0.14	0	8	21	7	3	nw.	A. C. Hanson
LeMars	Plymouth	1,224	29	57.8	—1.2	98	22	25	6	47	0.64	—3.89	0.27	T.	5	22	7	2	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	55.3	—2.7	100	22	25	11	42	1.57	—3.12	0.73	0	7	10	19	2	nw.	Amer. Beet Sugar Co.
Milford (near)	Dickinson	1,430	5	55.2	------	96	22	20	17	43	0.30	------	0.20	0	2	24	4	3	s.	S. N. McKinsey
New Hampton	Chickasaw	1,169	28	55.0	—3.3	97	22	28	6†	38	2.39	—2.44	1.44	0	6	16	11	4	nw.	A. F. Kemman
Nora Springs	Floyd	1,064	13	56.4	—2.8	101	22	25	11	45	1.49	—3.61	0.85	0	8	19	10	2	s.	Arthur Betts
Northwood	Worth	1,222	29	------	------	96[g]	22	28[g]	6	38[g]	1.78	—3.31	0.85	T.	7	17	10	4	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	56.2	------	94	22	28	7	50	1.20	------	0.70	0	3	17	12	2	w.	John T. Ridler
Osage†‡	Mitchell	1,163	----	54.7	------	98[b]	22	26[c]	11	42[c]	1.31	------	0.72	0	7	11	16	4	nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	56.8	—2.0	99	22	25	6	42	1.04	—3.39	0.82	0	6	17	12	2	sw.	F. E. Hronek
Postville	Clayton	1,180	26	55.1	—2.3	92	29	27	17	40	1.47	—3.59	0.77	0	5	18	12	1	sw.	F. L. Williams
Rock Rapids	Lyon	1,358	26	57.3	—0.7	96	22	24	11	48	0.76	—2.79	0.19	0	9	23	6	2	sw.	J. K. Medberry
Sanborn	O'Brien	1,553	11	56.0	—2.1	95	20†	23	6	41	0.43	—4.36	0.15	0	5	20	8	3	sw.	J. W. Dow
Sioux Center	Sioux	1,426	26	57.1	—1.1	95	20	25	6	41	0.30	—4.41	0.10	0	5	19	7	5	sw.	J. de Ruyter
Spencer	Clay	1,319	11	57.2	—1.3	98	20†	22	6†	45	0.33	—3.87	0.13	0	5	20	7	4	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	57.2	—1.9	93	20†	28	6	35	1.20	—3.29	0.60	0	7	24	5	2	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	57.1	—1.2	95	22	26	6	43	1.27	—3.35	0.63	0	7	20	6	5	s.	H. L. Felter
Waterloo	Black Hawk	854	42	57.2	—3.0	101	22	25	7	44	1.12	—2.97	0.67	0	7	23	4	4	nw.	R. B. Slippy
Waverly	Bremer	936	29	56.2	—2.6	100	22	26	7	44	1.18	—3.26	0.62	T.	10	27	2	2	n.	D. H. Murphy
West Bend	Palo Alto	1,197	32	56.4	—2.9	96	22	22	6	41	1.20	—2.99	0.84	0	7	16	13	2	nw.	Jos. Dorweiler
Means and extremes		------	----	56.4	—2.2	101	22	20	17	50	1.12	—3.48	1.44	T.	7	19	9	3	nw.	
Central Division																				
Ames	Story	926	48	58.6	—1.2	100	22	27	7	40	0.75	—3.76	0.40	0	7	20	9	2	nw.	Iowa State College
Audubon	Audubon	1,297	30	57.3	—2.0	97	22	26	6	45	1.32	—3.06	0.48	0	9	19	9	3	se.	Geo. Kibby
Baxter	Jasper	998	25	58.0	—2.5	98	22	28	6	38	1.18	—4.18	0.40	0	5	17	12	2	s.	Henry Geise
Belle Plaine	Benton	866	35	57.6	—2.8	99	22	28	7	42	0.95	—3.86	0.49	0	6	17	11	3	nw.	O. C. Burrows
Boone (near)†‡	Boone	1,134	20	57.6	—2.3	101	22	24	2	46	0.87	—4.16	0.39	0	7	----	----	----	s.	C. F. Henning
Carroll	Carroll	1,265	35	58.1	—1.8	99	22	25	6	39	0.75	—3.81	0.41	0	5	23	3	5	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	57.6	—4.0	102	22	24	7	49	1.15	—3.55	0.57	0	9	16	8	7	nw.	J. T. Wurster
Clinton	Clinton	595	52	57.3	—3.8	95	22	29	25	43	0.97	—3.63	0.56	0	4	20	9	2	s.	Dr. A. P. Bryant
Davenport	Scott	580	54	58.4	—2.9	94	22	36	24	38	0.98	—3.12	0.45	0	6	20	6	5	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	59.1	------	95	22	30	25	41	1.06	------	0.51	------	5	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	58.0	—2.1	95	22	27	6	40	1.15	—3.13	0.61	T.	7	15	12	4	nw.	V. L. Byers
Des Moines	Polk	861	47	59.4	—1.9	98	22	34	2	33	0.77	—3.97	0.29	0	9	9	13	9	sw.	U. S. Weather Bureau
Fairport	Muscatine	567	4	59.0	------	93	22	31	25	48	0.80	------	0.48	0	5	19	7	5	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	57.0	—2.2	100	22	25	6	42	0.64	—3.94	0.40	0	5	20	3	8	sw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	58.7	—2.1	98	22	29	6	41	1.16	—3.81	0.44	0	11	19	11	1	sw.	Paul P. Meyers
Grundy Center	Grundy	976	34	55.9	—4.7	98	22	25	11	44	1.43	—3.51	0.90	0	5	19	4	8	nw.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	58.2	—2.3	96	22	27	2†	42	1.41	—3.29	0.84	0	6	22	7	2	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	58.0	—2.1	99	22	25	6	49	0.75	—3.81	0.51	0	5	13	13	5	s.	Nels Bisgard
Iowa City	Johnson	733	65	57.1	—3.2	95	22	28	7	39	1.00	—3.53	0.76	0	6	20	8	3	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	55.8	—3.0	99	22	25	7†	41	1.22	—3.39	0.43	0	9	19	5	7	nw.	J. B. Parmelee
Jefferson	Greene	1,052	26	57.8	—2.0	99	22	26	2†	42	0.69	—3.86	0.40	T.	5	21	4	6	sw.	W. I. Lyon
Little Sioux	Harrison	1,040	20	60.0	—1.1	99	20	25	6	42	2.16	—2.28	1.36	0	7	15	13	3	nw.	H. W. Kerr
Logan	Harrison	1,035	58	60.4	—0.9	101	22	29	6	46	1.65	—2.59	0.86	0	7	17	10	4	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	55.6	------	92[a]	22	26	7	42[a]	1.04	------	0.41	0	6	18	7	6	nw.	John Strodthoff
Marshalltown	Marshall	947	33	58.8	—2.1	100	22	30	6	39	1.66	—3.43	0.42	T.	8	20	6	5	sw.	C. C. Pigman
Monroe	Jasper	922	13	59.7	—1.4	101	22	28	6	43	1.90	—3.05	0.51	0	7	20	3	8	s.	J. A. Dibel
Olin	Jones	760	26	56.5	—3.8	94	22	27	7	42	1.57	—3.12	0.72	0	4	19	7	5	nw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	57.8	—3.1	93	20	27	6	46	2.37	—2.46	1.50	0	4	17	4	10	nw.	Mrs. H. E. Colby
Perry	Dallas	975	24	58.8	—2.0	101	22	25	2	45	0.75	—4.09	0.23	0	9	22	6	3	nw.	Eugene N. Hastie
Rockwell City†‡	Calhoun	1,134	29	------	------	------	------	------	------	------	0.96	—3.97	0.76	0	5	----	----	----	n.	A. W. McIsaac
Sac City	Sac	1,278	49	57.0[a]	—1.7	96[a]	22	30[a]	6	36[a]	1.62	—2.54	1.06	0	5	----	----	----	s.	F. P. Kessler
Sioux City	Woodbury	1,135	36	59.1	—1.3	96	20	31	6	37	2.19	—1.75	1.08	0	10	12	13	6	s.	U. S. Weather Bureau
Tipton	Cedar	807	26	57.0	—3.8	92	22	32	25	42	1.22	—3.67	0.90	T.	5	15	11	5	nw.	Chas. H. Obye
Toledo	Tama	856	31	57.6	—3.3	99	22	26	7	42	1.21	—3.48	0.56	0	8	----	----	----	nw.	I. F. Giger
Waukee	Dallas	1,039	22	58.7	—2.0	100	22	27	6	38	1.02	—3.65	0.29	0	10	23	5	3	se.	Samuel F. Foft
Webster City	Hamilton	1,042	20	56.9	—2.8	102	22	22	7†	46	0.93	—3.34	0.73	0	3	21	8	2	sw.	Frank A. Bonebright
Williamsburg	Iowa	765	9	56.4	—4.0	96	22	25	7	43	0.71	—3.89	0.56	0	5	22	6	3	nw.	Dr. F. C. Schadt
Means and extremes		------	----	57.9	—2.5	102	22	22	7†	49	1.18	—3.43	1.50	T.	6	19	7	5	nw.	

Climatological Data for May, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	60.4	— 1.0	96	20†	29	6	41	1.27	—3.50	0.58	0	6	16	11	4	sw.	S. R. Brown
Albia	Monroe	959	27	58.6	— 2.7	95	22	30	6	37	2.34	—2.65	1.53	0	7	21	3	7	sw.	O. E. McBride
Atlantic	Cass	1,164	34	59.5	— 1.2	98	22	28	2†	40	0.71	—3.52	0.53	0	3	13	12	6	nw.	J. N. Reynolds
Bonaparte	Van Buren	563	34	57.8	— 3.5	91	22	32	25	36	1.55	—3.28	1.15	0	5	19	7	5	e.	B. R. Vale
Burlington	Des Moines	544	29	60.4	— 2.5	94	22	35	25	41	1.15	—3.38	0.78	0	9	21	5	5	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	58.5	— 2.9	93	22	31	25	39	0.75	—3.84	0.42	T.	8	19	5	7	sw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	58.2	— 1.9	94	22	29	6	41	1.08	—3.44	0.97	0	3	19	6	6	------	C. C. Burr
Clarinda	Page	1,009	35	60.2	— 2.7	98	22	28	6	49	0.70	—4.25	0.33	0	8	22	7	2	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	57.4	— 4.8	92	22	30	7	40	1.06	—3.25	0.75	0	7	17	12	2	sw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	58.6[a]	— 1.9	97[a]	22	24[a]	2†	44[a]	0.82	—4.22	0.67	0	2	21	7	3	sw.	Jerome Smith
Corydon	Wayne	1,101	32	58.6	— 2.7	92	22	30	6	36	1.58	—3.09	0.77	0	5	16	12	3	sw.	A. T. Gallagher
Creston	Union	1,312	20	58.3	— 2.4	95	22	27	6	40	1.14	—3.40	0.83	0	5	21	7	3	s.	J. W. Goodsell.
Cumberland (near)	Cass	1,225	26	------	------	------	------	------	------	------	1.03	—3.15	0.75	0	3	15	12	4	sw.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	58.4	— 1.8	97	22	24	2	44	0.60	—3.84	0.30	0	5	25	2	4	sw.	Geo. Phillips
Fairfield	Jefferson	780	41	57.6	— 3.5	94	22	29	25	41	0.82	—4.62	0.40	0	6	22	5	4	nw.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	60.4	— 0.9	98	22	29	6	41	0.83	—3.78	0.23	0	6	11	17	3	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	59.0	— 2.5	97	22	29	6	36	1.16	—3.29	0.42	0	9	17	11	3	nw.	Seth F. Shenton
Keokuk	Lee	614	54	60.3	— 3.5	93	22	35	25	32	1.28	—2.91	1.09	0	7	15	10	6	s.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	58.0	— 3.3	92	22	29	2†	41	1.45	—3.43	1.02	0	5	11	12	8	se.	J. H. Landes
Knoxville	Marion	920	30	59.0	— 2.5	97	22	30	2†	41	1.21	—3.04	0.30	0	10	14	13	4	sw.	W. J. Casey.
Lacona	Warren	824	26	------	------	------	------	------	------	------	1.04	—3.79	0.34	0	10	9	13	9	------	J. B. Alter
Lamoni	Decatur	1,123	18	58.8	— 2.4	95	21	30	6	36	1.24	—3.71	0.90	0	5	15	7	9	se.	Roy L. Roberts
Lenox	Taylor	1,250	30	59.4	— 2.5	96	21†	28	6	39	0.93	—3.75	0.44	0	6	19	9	3	nw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	58.9	— 2.4	93	21	29	6	35	0.97	—4.50	0.53	0	6	16	8	7	sw.	Alex Maxwell
Mt. Pleasant	Henry	729	44	59.0	— 3.5	93	22	34	6†	43	2.62	—2.00	1.59	T.	5	12	14	5	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	59.4	— 1.8	99	22	25	6	44	0.62	------	0.31	0	5	17	8	6	n.	M. E. Gray
Oskaloosa	Mahaska	835	49	57.9	— 3.3	96	22	30	6	37	1.99	—2.26	0.90	0	8	12	12	7	sw.	Roy R. Robinson
Ottumwa	Wapello	649	30	59.4	------	95	22	32[a]	2†	48[a]	0.79	—3.86	0.29	T.	8	23	0	8	nw.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	----	------	------	------	------	------	------	------	1.10	------	0.50	0	4	17	11	3	e.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	58.0	— 2.8	95	22	30	25	42	1.55	—2.72	0.84	0	7	19	4	8	nw.	W. E. Utterback
Stockport	Van Buren	747	23	57.2	— 3.3	91	22	29	25	41	1.08	—3.58	0.73	0	7	20	7	4	sw.	C. L. Beswick
Thurman	Fremont	975	28	61.2	— 1.3	97	22	30	2†	48	2.12	—2.83	0.78	0	6	5	23	3	sw.	C. R. Paul
Tingley	Ringgold	1,275	----	58.3	------	93	20†	29	6	37	1.22	------	0.98	0	3	16	11	4	se.	James A. Verploegh
Washington	Washington	769	43	58.6	— 2.9	95	22	32	7	39	1.12	—3.04	0.62	0	7	24	2	5	ne.	D. D. Sherman
Wescott (near)	Lee	523	3	59.6	------	94	22	29	25	40	1.44	------	1.26	0	2	21	5	5	sw.	Lester J. Larson
Winterset	Madison	1,129	34	58.8	— 2.8	96	22	28	6	40	0.93	—3.59	0.20	0	9	23	4	4	sw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	61.2	— 1.2	98	22	36	6	33	0.55	—3.95	0.21	0	10	14	13	4	nw.	U. S. Weather Bureau
Means and extremes	----------	------	----	59.0	— 2.5	99	22	24	2†	49	1.18	—3.44	1.59	T.	6	17	9	5	sw.	
State means and extremes	----------	------	----	57.8	— 2.4	102	22	20	17	50	1.16	—3.45	1.59	T.	6	19	8	4	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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	29.99	30.38	17	29.43	22	66	38	46	19	6	4,987	6.7	26	sw.	22	76	+15
Davenport	29.99	30.37	26	29.55	23	70	46	45	23	13	5,216	7.0	27	se.	15	70	+ 6
Des Moines	29.98	30.37	17	29.51	22	72	42	48	21	22	5,733	7.7	40	sw.	22	73	+12
Dubuque	29.97	30.37	26	29.51	22	70	41	44	20	7	4,755	6.4	24	sw.	20	75	+17
Keokuk	30.00	30.35	26	29.60	23	70	46	49	29	12	5,148	6.9	32	nw.	4	74	+19
Sioux City	29.99	30.39	17	29.46	31	71	42	42	20	6	8,920	12.0	44	s.	31	77	+20
Omaha, Neb.	29.99	30.36	11	29.50	22	68	42	44	15	7	4,837	6.5	34	n.	3	78	+17
Means and extremes	29.99	------	----	------	----	70	42	45	---	---	------	7.6	---	------	---	75	+64
	-----	30.39	17	29.43	22	---	---	---	15	7	------	-----	44	s.	31	----	----
Normals and records	29.95	------	4th	------	7th	77	---	59	---	3d	------	8.7	---	------	21st	61	----
	-----	*30.58	1910	§29.02	1875	---	---	---	§10	1889	------	-----	¶84	nw.	1894	----	----

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

for any May of record; river stage equaled the previous low record for May; low record of thunderstorms also equaled."

F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the record of 104 stations, was 57.8°, or 2.4° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 56.4°, or 2.2° lower than the normal; Central, 57.9°, or 2.5° lower than the normal; Southern, 59.0°, or 2.5° lower than the normal. The highest monthly mean was 61.2°, at Thurman, and the lowest was 54.2°, at Decorah. The highest temperature reported was 102°, at Cedar Rapids and Webster City, on the 22d, and the lowest was 20°, at Milford, on the 17th. The temperature range for the State was 82°. This range has never been exceeded in May, and only once, in 1907, has it been equaled.

PRECIPITATION

The average precipitation for the State, as shown by the records of 108 stations, was 1.16 inches, or 3.45 inches less

Daily Precipitation for May, 1925

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									.12						.22	.65																0.99
Allison (near)	Cedar			.22				.10								.08	.80				.33				.03			T.			.17		1.73
Alta‖	Raccoon				.10	.03	.05		.10	.03	T.			.02			.75								T.								1.08
Alton	Floyd			.16	.02	.01		T.		.02			.05	.01		.02	.02						T.										0.31
Belmond	Iowa			.23		T.		.05		.07						.03	.44				.07		T.	T.	T.						.10	.01	1.00
Britt	Iowa			.10						.11						.15	.63				.04				T.						.05		1.08
Charles City***	Cedar			.08				T.		.03						.13	.74			.13			.02	.01	.14			.09			T.	.01	1.38
Cherokee	Little Sioux			.30		.09		.06		.02				.14		.02	.28				.03						T.						0.94
Decorah‖	Mississippi			.01	.02					.02						.78	.20				.20				.20							.05	1.48
Dubuque***	Mississippi			.28	.02	T.		.05			T.			T.		.13	.30				.06				.09			.03					0.96
Estherville‖	Des Moines				.10					T.	.10		.05	T.			.15				.12							.05					0.57
Fayette	Mississippi				.09			.06		T.				T.		.08	.55				1.22				.14			.02	.02		.09		2.27
Forest City‖	Cedar				.07				T.		.11			T.			.81	.23			.35				.03			T.			.04		1.64
Hampton	Cedar			.22				.05		T.						.03	.52			.29			T.					.09			T.	.04	1.24
Humboldt	Des Moines			.15				T.		T.						T.	.82				.13											T.	1.10
Independence	Wapsipinicon				.24												.38				.10				.05						.34	.18	1.29
Inwood‖	Big Sioux				.06	.03	.08		.04	T.	.04		T.				.14				.14							.07					0.60
Lansing‖	Mississippi				.09						T.						.60	.15			.20				.10							.02	1.16
Le Mars	Floyd			.23		.02	T.	.08		.04				T.		T.	.27				T.						T.						0.64
Mason City	Cedar			.06						.09	T.			T.		T.	.73			.41					.09		T.				.17	.02	1.57
Milford (near)	Little Sioux									.10			T.			T.	T.				.20		T.		T.		T.						0.30
New Hampton	Wapsipinicon			T.						T.	.10						1.44				.38				.12			T.	.15		.20	T.	2.39
Nora Springs	Cedar			.12						.18						.07	.78			.11			T.	.07	.11			.05				T.	1.49
Northwood	Cedar									.10						.15	.85				.16				.15						.35	.02	1.78
Oelwein	Wapsipinicon																.70				.30				.20						T.		1.20
Osage	Cedar			T.				T.		.10				T.		.03	.69			.10	.20			.16				.03			T.		1.31
Pocahontas	Des Moines			.09				.07		.04						.32	.50				.02											T.	1.04
Postville	Mississippi		.6						T								.77			.21					T.			.20		.25	.04		1.47
Rock Rapids	Big Sioux			.03		.14		.09		.05			.02			.09	.03			.12							.19						0.76
Sanborn	Floyd			.11	T.	.15		T.		.06			.06										.05										0.43
Sioux Center	Floyd			.05	.02	T.		T.	T.	.06			.07			.10				T.							T.				T.	0.30
Spencer	Little Sioux			.06		.04				.07			T.			.03	.13																0.33
Storm Lake	Raccoon			.13	.03			.15								.06	.60									.01	T.					.22	1.20
Washta	Little Sioux			.27	.05	.06		.13	T.					.06		.07	.63										T.						1.27
Waterloo‖	Cedar				.22				.04								.67	T.			.06				.02			.01			T.	.10	1.12
Waverly	Cedar				.16				.08	.01							.62				.08			.02	.07			.03			.04	.07	1.18
West Bend	Des Moines			.04		.01		T.		.12				T.		.31	.53				.16				.03								1.20
Central Division																																	
Ames	Skunk			.13		T.		.13	T.							.23	.17				T.				.01			.05	T.			.03	0.75
Audubon	Nishnabotna			.08	.01	.02		T.	.05				T.			.42	.20						.02				T.	.04			.48		1.32
Baxter	Skunk			.10		T.		.23						T.		.40				T.					T.			T.			.40	.05	1.18
Belle Plaine	Iowa			.06	.25	T.			.07	T.						.21	.28								T.			.08			T.	T.	0.95
Boone‖	Des Moines				.18		.11		.10	.02				.03			.39								.04								0.87
Carroll‖	Raccoon				.15		.03		.13	.03							.41																0.75
Cedar Rapids‖	Cedar				.22				.04								.14	.13			.05				.04	.02		.03				.18	1.15
Clinton	Mississippi				.26				T.								.56				.07				.08								0.97
Davenport***	Mississippi		T.	.05	T.			T.		T.	T.					.11	.34				.33				.06			.09					0.98
Davenport (No. 2)	Mississippi				.08				T.								.51				.31				.07			.09					1.06
Denison	Missouri			.09	.08	.07		T.	.11							.12	.49															.19	1.15
Des Moines***	Des Moines			.13	T.	.04		.13	.10	T.				T.		.20	.09						.01		.01		T.	T.			.06	T.	0.77
Fairport	Mississippi				.05												.48				.10				.02			.15					0.80
Fort Dodge‖	Des Moines				.15				.02	T.							.40	T.			.05				.02								0.64
Grinnell	Iowa			.05	.07	.06			.07							.27	.44				.08				.02			.01			.07	.02	1.16
Grundy Center	Cedar			.17		T.		T.	.07							T.	.90				.11				.18			T.			T.	T.	1.43
Guthrie Center	Raccoon			.09	.14			.04	.07							.84	.23																1.41
Harlan	Nishnabotna				.01											.13	.38															.05	0.75
Iowa City‖	Iowa				.10				.05								.26	.50			T.				.02			.07					1.09
Iowa Falls‖	Iowa				.12				.06		T.						.43	.13			.28				.05			.04	.01			.10	1.22
Jefferson	Raccoon			.15	T.	.08		.06	T.							.25	.15				T.							T.					0.69
Kalo	Des Moines			.10				.07								.50						T.											0.67
Le Claire‖	Mississippi	.01			.12	T.	T.										.31	.14			.19				.09	.03		.01	.02				0.92
Little Sioux	Little Sioux		T.	.07	T.	.14			.12				T.	.15		.06	1.30			T.	T.						T.		.32			T.	2.16
Logan	Missouri				.18	.05			.05							.11	.86												.32			.08	1.65
Maquoketa	Maquoketa			T.	.31				.03								.41				.17				.09			.03					1.04
Marshalltown‖	Iowa			.02	.07		T.		.11								.41	.01			.23			T.	.03			T.	T.		T.	.18	1.06
Monroe	Des Moines			T.		T.		.16	.37							.41	.21		T.						T.			.08			.51	.16	1.90
Muscatine‖	Mississippi	T.		.10	.02				.07								.32	.07							.03	.02		.25	.02				0.90
Olin	Wapsipinicon				.20												.72				.55							.10					1.57
Onawa	Missouri			.12	T.	T.			.25						T.		1.50				.50								T.		T.		2.37
Perry	Raccoon			.11		.06		.04	.12					.01		.12	.23			.02								.04					0.75
Rockwell City	Raccoon			.10	.05	T.		.05								.01	.75																0.96
Sac City	Raccoon			.22	T.	.07		.08								.19	1.06															T.	1.62
Sioux City***	Missouri			.14	.04	.02		.10	.01	.06			.03			.13	.58			1.08							T.		T.			T.	2.19
Tipton	Cedar								.02								.90				.17				.03			.10					1.22
Toledo	Iowa			T.	.13	T.				.06						.25	.31				.18				.03			T.			.05	.20	1.21
Van Meter‖	Raccoon				.12	.03			.14	.08				.03		.28																	0.68
Waukee	Raccoon			.15	T.	.01		.20	.11					.03		.19	.10								.01						.20	.02	1.02
Webster City	Des Moines			.20				T.		T.						.12	.61														T.		0.93
Williamsburg	Iowa			.03					.10							.28	.28				.02				T.								0.71

Daily Precipitation for May, 1925—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					T.			.15					.05		.58	.30											.11				.08	1.27
Albia‖‖	Des Moines				.05		T.		.13	.01	T.						.50								T.	.05		.07			1.53		2.34
Atlantic‖‖	Nishnabotna				T.	T.	T.								.04		.53						T.							.14			0.71
Bonaparte	Des Moines					T.			.04					T.		.04	1.11								T.			.12			.04		1.35
Burlington‖‖	Mississippi	T.	T.		.01				.02	.03							.78	.18			.03				T.	T.		.06	.03			.01	1.15
Centerville	Chariton			.02	T.	T.	.05		.05	T.						.42	.14				T.				.01			.05				.01	0.75
Chariton (near)	Chariton	T.				T.		T.	T.	T.				T.		.42	.55				.11								T.			T.	1.08
Clarinda‖‖	Nodaway*				.03	T.	.02			.11				.14			.33				.02			.02				.03					0.70
Columbus Jct.	Iowa				.05				.07							.03	.75				.02							.13			.01		1.06
Corning	Nodaway			T.	T.	T.	T.		T.								.67	.15															0.82
Corydon	Chariton				T.		T.		.06							.77					.23							.04				.48	1.58
Creston‖‖	Missouri									.16				.05			.75	.08						T.				.10					1.14
Cumberland (near	Nodaway		T.	T.	T.	T.		T.	T.					.12		.75	.16				T.			T.	T.			T.	T.				1.03
Earlham	Des Moines			.08		T.	T.	.11	T.					.11		.15	.15								T.			T.					0.60
Fairfield	Skunk			.03	.07				.12							.10	.40											.10					0.82
Glenwood	Missouri			.04					.20					.11		.23					.13	T.										.12	0.83
Indianola	Des Moines			.11		.02		.18	.04							.31	.11								T.			.08			.25	.06	1.16
Keokuk***	Mississippi		.01	.02				T.	.01	T.						.57	.52				T.				T.			.11	T.		.04		1.28
Keosauqua	Des Moines								.08	T.						.16	1.02								.08			.11					1.45
Knoxville	Des Moines			.04		.02		.25	.03							.30	.05							T.	.06			.12	T.		.10	.24	1.21
Lacona	Des Moines			.10	.02	.01		.20	.06							.18	.16								.01			.20			.10	T.	1.04
Lamoni‖‖	Grand					T.				.07				.02			.90					.19						.06					1.24
Lenox	Missouri			.03	T.	.03			.20					.05		.44	.18							T.									0.93
Mt. Ayr	Grand			T.	T.	.05			.09					.02		.53	.26		T.									.02	T.				0.97
Mt. Pleasant	Skunk								.14							T.	.74			.04					T.			.11			1.59		2.62
Oakland	Nishnabotna		.11		T.	T.			T.							.13	.18										T.	.10	T.			.10	0.62
Oskaloosa	Des Moines			T.	.02	T.		.11	.25							.10	.36				T.				.08			.17			.90	T.	1.99
Ottumwa	Des Moines			.02		T.			.09	T.				.02		.18	.29				T.				.01			.08			.10	T.	0.79
Red Oak (near)	Missouri			T.	T.	T.				.24	T.	T.	T.	.27			.50				.09		T.										1.10
Sigourney	Skunk			T.		T.		T.	.32							.12	.72				.06				T.			.20			.10	.03	1.55
Stockport	Skunk			T.					.08	.02				T.		.09	.64								.03			.16			.06		1.08
Thurman	Missouri			T.	T.	T.			.05				T.	.64		.18	.42				.78	T.		T.				T.				.05	2.12
Tingley	Platt				T.	T.	T.			.15						.98	.09											T.					1.22
Washington	Skunk			.02					.18							.18	.44			.08					T.			.13			.09		1.12
Wescott (near)	Mississippi																1.26											.18			T.		1.44
Winterset	Des Moines			.18	.05	.08		.18	.03					T.		.20	.10											.08	.03				0.93
Omaha, Neb.***	Missouri		T.	T.	T.	.02			.04				.04	.04		.19	.02			T.	.04						.02		.02			.12	0.55

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.

than the normal. By divisions the averages were as follows: Northern, 1.12 inches, or 3.48 inches less than the normal; Central, 1.18 inches, or 3.43 inches less than the normal; Southern, 1.18 inches, or 3.44 inches less than the normal. The greatest amount, 2.62 inches, occurred at Fayette, and the least, 0.30 inch, occurred at Milford and Sioux Center. The greatest amount in any 24 consecutive hours, 1.59 inches, occurred at Mt. Pleasant on the 30th.

SNOWFALL

Light snow flurries occurred in each of the three divisions but it did not exceed a trace at a single station, the snowfall that occurred on the 24th over the northeastern portion of the State is the latest that snow has occurred in the last 41 years.

MISCELLANEOUS PHENOMENA

Fog: 7th, 8th, 10th, 16th, 18th, 29th.

Frost (Northern Division, Killing): 2d, 5th, 6th, 7th, 8th, 9th, 11th, 16th, 17th, 18th, 25th, 26th; Heavy: 2d, 6th, 7th, 8th, 16th, 17th, 25th; Light: 1st, 2d, 4th, 5th, 7th, 8th, 10th, 11th, 12th, 18th; Central Division, Killing: 1st, 2d, 5th, 6th, 7th, 8th, 11th, 16th, 25th; Heavy: 2d, 5th, 6th, 7th, 17th, 25th; Light: 1st, 2d, 5th, 6th, 7th, 11th, 12th, 17th; Southern Division, Killing: 1st, 2d, 6th, 7th, 11th, 25th; Heavy: 1st, 2d, 5th, 6th, 7th, 11th, 17th; Light: 1st, 2d, 5th, 6th, 7th, 12th, 18th, 25th, 27th.

Hail: 3d, 5th, 19th, 20th.

Halos: 2d, 4th, 5th, 7th, 17th, 26th, 28th.

Haze: 21st.

Parhelia: 1st.

Sleet: 5th, 7th.

Thunderstorms: 3d, 4th, 5th, 6th, 9th, 15th, 16th, 19th, 20th, 22d, 24th, 27th, 30th, 31st.

Winds, high: 3d, 16th, 22d, 23d, 24th, 30th, 31st.

RIVERS

Unusually low stages prevailed on the Mississippi and all interior rivers. There was a gradual though slow fall the entire month, and almost without exception, the highest stages occurred on the first of the month and the lowest stages on the last. The lowest stages for the month of May were either equaled or exceeded along the entire border of the State on the Mississippi. Remarkably uniform moderate stages prevailed on the Missouri River. The range at Omaha was less than one foot from the 1st to the 25th, inclusive, and at Sioux City, from the 1st to the 27th, inclusive. A moderate rise occurred during the last half of the last week along the entire course bordering the State.

ERRATA

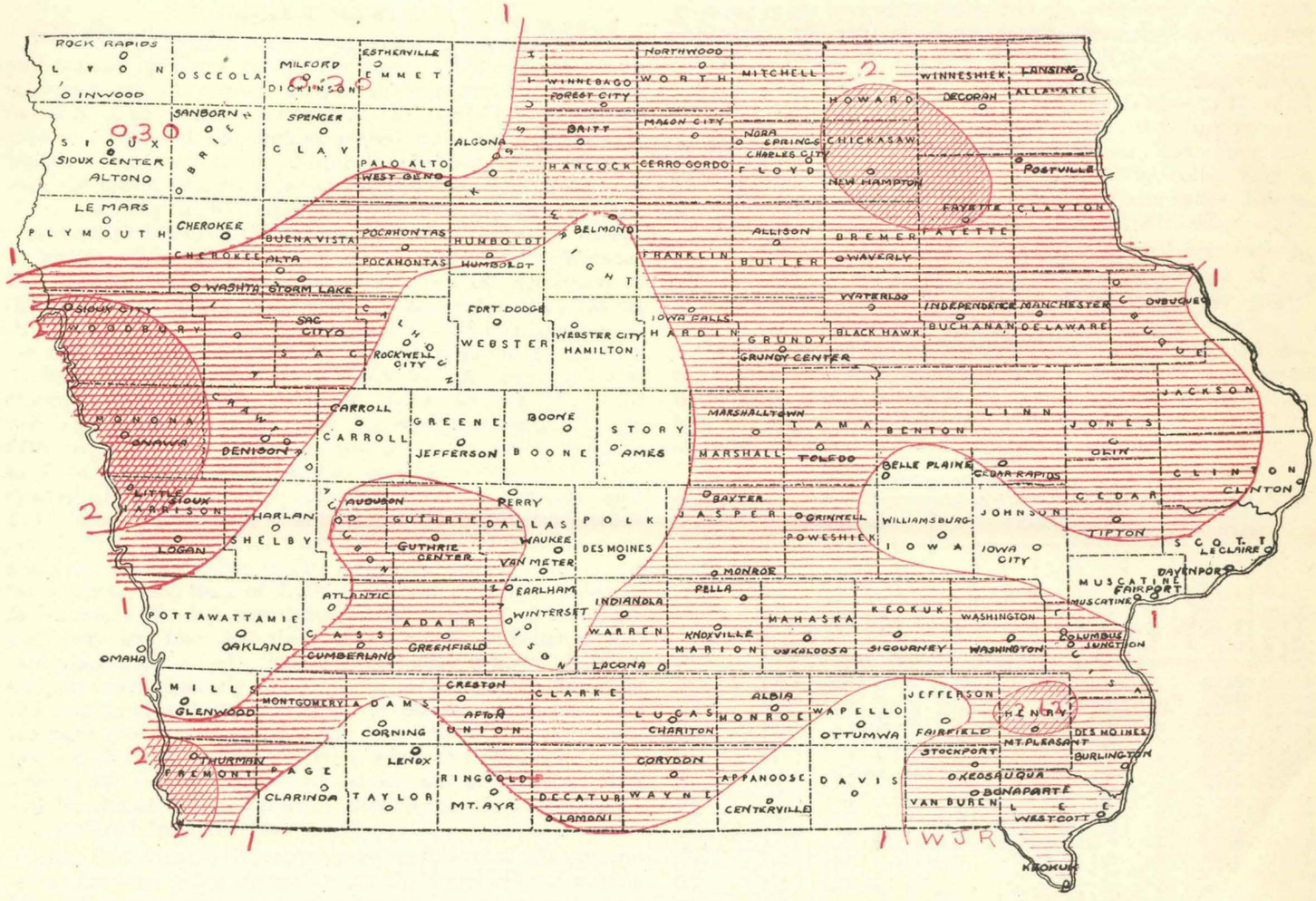
Report for April, 1925: Page 26; Charles City, mean temperature recorded 53.9°, should be 54.0°, departure recorded +7.5°, should be +7.6°. Page 30; minimum temperature on the 29th recorded 34°, should be 39°; mean of the minimum recorded 41.1°, should be 41.3°.

Daily Maximum and Minimum Temperature for the Month of May, 1925

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
Northern Division																																	
Algona	Maximum	60	67	71	59	58	59	60	62	56	57	67	78	73	70	71	58	58	71	80	92	87	98	86	63	65	70	79	75	82	93	92	71.5
	Minimum	32	32	44	35	31	28	34	32	53	40	31	46	53	51	37	38	31	38	48	60	57	67	58	36	32	40	52	45	50	64	68	44.0
Alta	Maximum	58	69	67	60	55	57	56	53	58	57	70	78	75	76	70	56	61	73	80	93	90	94	76	57	68	71	77	80	86	90	88	70.9
	Minimum	34	35	44	35	32	26	35	36	42	42	35	48	53	39	49	36	32	43	49	60	60	65	47	36	35	43	52	50	52	65	66	44.4
Alton	Maximum	59	72	69	61	55	60	58	56	60	58	69	76	73	74	69	60	64	75	84	95	92	93	78	58	68	68	77	77	85	92	90	71.6
	Minimum	34	27	38	35	32	22	28	28	41	33	25	50	52	35	53	36	22	36	48	55	60	69	55	37	28	43	54	44	52	66	68	42.1
Belmond	Maximum	61	66	74	60	59	61	62	63	52	61	69	78	75	71	71	60	60	72	81	94	85	101	87	58	66	68	79	78	82	91	93	72.2
	Minimum	31	28	43	35	30	25	28	28	39	38	28	42	52	41	46	42	31	36	46	52	58	63	56	36	29	40	50	44	47	63	67	41.7
Charles City	Maximum	58	64	68	53	54	55	59	60	54	59	66	77	72	68	73	59	57	70	79	88	81	99	78	55	61	65	73	72	78	89	91	68.9
	Minimum	34	29	45	34	34	30	29	31	35	37	29	43	48	43	44	38	31	35	46	57	57	57	46	36	32	38	51	45	47	59	65	41.5
Dubuque	Maximum	58	62	68	53	50	54	60	60	63	67	62	72	76	65	74	62	56	68	74	82	79	94	84	52	57	62	65	73	77	84	91	67.9
	Minimum	40	36	49	42	41	38	34	38	39	43	35	41	49	41	41	41	36	37	46	58	58	55	43	35	34	36	46	55	50	57	69	44.0
Forest City	Maximum	58	66	71	53	55	57	57	60	53	55	68	78	73	69	71	58	58	71	79	91	84	97	85	60	63	66	77	71	79	91	91	69.8
	Minimum	31	31	42	35	30	26	33	31	37	40	31	43	53	39	45	39	29	37	44	55	59	57	56	34	33	38	51	42	46	60	64	41.6
Independence	Maximum	58	63	68	63	53	53	68	60	60	62	63	73	78	73	72	70	65	67	76	86	85	99	86	86	60	63	70	72	79	84	89	71.1
	Minimum	34	34	49	40	37	32	29	31	37	38	32	40	50	41	40	37	32	35	47	55	60	55	54	35	32	34	46	48	48	55	65	42.0
Inwood	Maximum	62	75	73	63	57	60	59	59	65	61	71	80	76	74	66	62	63	77	89	97	91	98	75	65	67	70	79	79	87	95	92	73.8
	Minimum	32	34	37	33	29	24	31	29	42	36	25	51	51	37	52	35	26	32	51	53	59	69	49	35	29	43	51	42	52	65	68	42.0
Mason City	Maximum	58	67	69	55	54	56	57	61	57	56	67	78	70	68	73	59	59	70	81	90	82	100	86	62	62	65	78	73	79	91	91	70.1
	Minimum	31	26	41	36	29	26	26	27	32	36	25	45	51	40	43	29	41	33	45	57	57	59	58	35	29	34	51	44	42	59	68	40.5
Milford (near)	Maximum	57	69	69	57	53	57	56	60	58	56	68	77	71	71	68	56	61	73	83	94	86	96	77	55	66	70	75	75	83	91	90	70.3
	Minimum	31	29	42	34	27	25	30	28	42	35	25	44	53	32	47	35	20	30	47	54	55	64	51	34	26	41	52	37	46	63	65	40.1
New Hampton	Maximum	58	64	67	57	54	55	60	61	56	56	66	76	72	70	76	65	57	70	79	86	81	97	88	65	60	67	71	72	78	88	88	69.7
	Minimum	31	29	42	37	35	28	30	29	32	36	28	38	50	40	39	42	30	35	41	55	59	60	55	33	30	34	48	44	45	55	62	40.4
Northwood	Maximum	58	68	----	----	54	54	----	----	----	----	----	77	71	67	73	57	58	70	79	88	78	96	86	53	63	67	76	71	78	88	88	71.6[c]
	Minimum	32	----	----	32	32	28	----	----	----	----	29	----	48	40	44	40	30	37	44	54	56	58	58	33	32	36	49	47	44	55	63	42.2[c]
Pocahontas	Maximum	59	69	72	62	57	59	60	58	56	58	68	81	75	74	70	58	58	71	82	94	82	99	82	61	66	70	79	76	84	92	91	71.7
	Minimum	32	28	40	35	30	25	29	30	35	38	26	46	51	35	49	40	30	35	46	59	57	64	5[illegible]	37	29	42	53	4[illegible]	47	63	64	41.8
Postville	Maximum	57	63	69	57	51	55	61	61	57	65	66	75	76	70	69	58	58	72	77	82	86	90	88	55	64	63	63	74	92	83	88	69.0
	Minimum	33	30	41	36	32	29	31	33	35	37	28	38	49	37	37	52	27	35	42	53	57	50	58	30	30	33	45	45	58	65	72	41.2
Central Division																																	
Belle Plaine	Maximum	62	67	72	60	60	61	68	60	65	71	67	77	79	72	70	63	58	70	80	82	89	99	87	74	64	65	75	75	81	89	93	72.7
	Minimum	32	29	44	41	31	30	28	32	45	41	33	40	49	44	45	45	36	37	41	48	56	57	57	37	30	36	48	49	48	60	66	42.4
Boone	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Carroll	Maximum	62	69	74	62	61	60	62	52	63	64	68	78	79	75	67	57	61	72	80	95	94	99	87	69	68	71	82	78	86	91	91	73.5
	Minimum	32	31	40	35	33	25	33	34	42	43	30	41	42	40	48	40	30	43	49	62	60	65	57	39	32	39	51	50	47	54	58	42.7
Cedar Rapids	Maximum	66	68	78	62	61	62	68	66	72	74	68	77	81	75	77	66	64	75	80	89	88	102	90	78	64	63	74	81	87	83	94	75.3
	Minimum	34	26	43	42	29	31	24	32	36	36	30	32	44	42	41	44	36	33	36	55	57	53	60	34	28	29	45	50	43	52	64	40.0
Davenport	Maximum	60	62	71	56	54	56	64	62	66	73	63	74	77	68	77	68	58	68	73	85	83	94	88	54	58	65	66	74	82	84	92	70.2
	Minimum	42	38	50	42	39	36	38	43	48	45	40	44	53	45	42	45	39	41	49	56	60	56	54	36	36	40	48	57	53	57	69	46.5
Des Moines	Maximum	61	66	74	62	58	59	63	54	63	67	64	75	77	72	65	60	59	70	76	94	90	98	86	57	64	66	74	74	83	90	90	71.3
	Minimum	37	34	51	41	38	34	36	39	47	44	36	45	56	49	50	42	39	42	47	61	67	66	57	41	34	42	51	50	47	54	58	42.7
Ft. Dodge	Maximum	61	68	73	60	57	58	64	57	64	60	68	80	78	74	69	48	60	72	81	93	89	100	88	68	67	70	78	75	84	93	92	72.5
	Minimum	31	27	41	34	31	25	28	28	37	40	26	44	52	36	46	43	29	34	46	57	57	64	57	36	28	38	51	45	46	64	65	41.5
Grinnell	Maximum	60	66	73	60	57	58	65	58	64	68	67	75	79	73	69	63	59	70	77	91	90	98	90	78	63	66	72	75	84	89	91	72.5
	Minimum	35	34	45	39	34	29	34	33	45	43	36	43	57	44	44	44	36	40	45	56	63	60	61	37	36	38	48	52	52	63	66	44.9
Guthrie Center	Maximum	61	69	73	63	58	58	62	51	64	63	67	76	76	75	68	59	57	69	77	94	91	96	89	69	65	70	77	74	85	90	89	72.1
	Minimum	33	27	46	36	34	27	34	34	43	39	29	43	54	41	48	41	34	42	49	63	62	67	60	53	29	39	39	51	47	63	66	44.3
Iowa City	Maximum	59	64	71	57	56	57	66	60	68	60	65	74	78	69	74	65	59	69	74	86	85	95	87	75	61	65	71	76	81	85	91	71.1
	Minimum	36	30	47	44	31	33	28	36	42	40	33	35	47	45	43	48	40	38	41	57	60	56	60	37	30	33	44	53	50	55	65	43.1
Iowa Falls	Maximum	59	67	72	58	58	57	63	58	58	63	65	76	76	69	71	60	56	68	78	86	83	99	91	68	61	65	74	70	79	88	90	70.5
	Minimum	30	26	44	37	31	27	25	30	33	33	25	42	53	43	45	43	32	33	41	55	59	61	59	36	31	37	49	45	45	61	66	41.2
Little Sioux	Maximum	66	72	75	67	60	59	65	51	65	65	71	79	82	80	72	61	63	74	82	99	94	97	85	66	70	73	84	78	86	91	89	74.9
	Minimum	32	30	38	33	33	25	33	40	44	40	30	50	54	43	56	38	31	47	50	61	62	70	58	39	30	45	53	53	49	67	68	45.2
Marshalltown	Maximum	59	66	73	59	57	58	65	58	63	65	67	78	79	72	70	60	58	71	78	91	88	100	87	73	64	68	73	77	84	90	92	72.4
	Minimum	34	32	47	40	35	30	31	32	44	41	33	45	54	45	47	44	37	40	48	57	63	61	62	38	34	40	51	52	50	63	67	45.1
Olin	Maximum	60	64	70	61	55	57	66	64	68	73	65	73	77	69	74	69	59	69	74	86	82	94	86	77	61	63	68	76	80	84	92	71.5
	Minimum	36	29	43	43	35	34	27	34	34	40	31	33	46	42	40	49	37	35	39	55	59	52	60	35	30	32	45	52	47	52	64	41.5
Sioux City	Maximum	60	72	70	58	55	59	55	49	64	59	67	75	75	74	68	58	60	72	83	96	91	92	77	57	65	66	78	78	8[illegible]	90	87	70.7
	Minimum	35	35	47	39	37	31	40	38	44	43	32	52	52	41	56	38	35	51	54	63	68	68	48	38	36	48	55	55	5[illegible]	68	69	47.5
Southern Division																																	
Albia	Maximum	62	67	74	67	60	59	68	55	63	75	67	76	79	75	67	63	55	70	76	88	94	95	88	68	67	68	73	73	85	88	89	72.7
	Minimum	34	32	44	40	38	30	31	40	43	43	35	43	51	47	45	45	37	36	41	56	63	63	58	38	32	38	46	50	50	62	65	44.4
Atlantic	Maximum	62	68	75	64	60	58	64	52	65	67	68	78	77	77	73	60	58	71	78	95	96	98	88	71	67	70	78	75	85	90	90	73.5
	Minimum	34	28	40	39	35	28	29	41	45	41	28	45	55	45	54	43	35	44	49	62	63	70	60	41	30	43	51	53	49	65	67	45.5
Burlington	Maximum	60	66	73	67	56	56	68	61	66	74	67	76	78	73	77	71	52	66	75	86	87	94	90	79	62	69	72	74	85	88	92	72.9
	Minimum	42	37	49	47	40	36	38	44	47	54	40	41	53	46	46	52	42	39	45	56	66	68	68	38	35	39	47	53	53	58	65	47.9
Columbus Jct.	Maximum	59	66	72	66	51	57	66	62	68	74	63	74	77	70	75	67	55	66	72	83	83	92	85	77	58	63	68	71	79	83	90	70.7
	Minimum	37	32	47	44	34	34	30	37	45	46	36	35	50	45	43	49	40	36	43	55	66	56	62	37	31	34	42	53	50	55	66	44.2
Corning	Maximum	64	68	75	66	65	60	63	57	64	74	68	76	77	----	66	65	68	72	77	93	94	97	89	73	66	70	71	74	85	91	92	74.0[a]
	Minimum	35	24	38	35	38	34	24	42	38	36	26	42	50	----	52	37	39	46	41	64	60	64	56	42	26	38	48	52	49	63	61	43.3[a]
Corydon	Maximum	62	67	75	68	60	61	65	59	62	73	66	73	77	74	72	63	50	67	74	87	91	92	87	77	65	61	72	74	83	88	89	72.1
	Minimum	34	33	47	41	38	30	35	44	45	45	34	42	52	47	43	47	39	35	43	55	65	62	59	41	31	38	48	49	51	61	64	45.1
Fairfield	Maximum	60	66	72	64	57	57	67	59	65	71	65	75	78	73	73	65	52	65	74	86	89	94	88	72	63	66	72	73	84	87	91	71.7
	Minimum	35	32	45	43	34	32	33	32	46	44	34	34	51	46	44	47	40	32	42	55	64	59	62	39	29	33	41	51	46	59	65	43.5
Keokuk	Maximum	60	65	72	61	57	56	66	62	62	74	65	73	78	73	77	71	49	63	73	84	91	93	88	70	63	64	70	75	83	86	91	71.5
	Minimum	39	36	52	48	42	38	39	47	51	51	44	44	54	47	47	47	41	40	46	57	68	61	70	39	35	42	49	56	61	64	67	49.1
Lamoni	Maximum	62	67	72	65	59	58	65	56	64	73	69	75	78	86	63	63	49	67	74	91	95	91	87	75	68	71	74	72	86	89	89	72.5
	Minimum	33	32	45	40	37	30	33	44	45	43	36	40	51	46	51	45	40	35	42	56	63	64	58	42	32	39	49	50	53	62	64	45.2
Sigourney	Maximum	60	65	74	62	59	59	67	58	63	70	65	73	78	73	70	63	54	68	74	89	89	95	89	80	63	65	70	73	83	87	90	71.9
	Minimum	36	32	46	41	35	31	32	36	44	43	35	38	50	47	45	46	39	37	43	56	62	59	61	38	30	36	46	51	46	61	66	44.1
Thurman	Maximum	63	63	74	65	60	58	65	65	65	68	71	76	77	78	77	65	61	73	83	93	93	97	92	80	79	70	80	82	87	91	88	75.5
	Minimum	35	30	35	40	37	30	34	45	46	39	30	45	54	47	54	40	40	47	49	60	61	72	57	53	31	40	54	58	54	68	71	47.0
Winterset	Maximum	61	70	75	63	60	60	64	55	66	68	68	75	78	75	68	62	58	70	76	92	94	96	91	78	66	70	75	72	85	91	91	73.3
	Minimum	32	30	45	35	36	28	34	40	43	45	30	43	51	40	48	45	40	36	39	59	60	70	58	40	30	40	47	52	48	63	65	44.8
Omaha	Maximum	61	71	73	64	58	59	63	51	66	64	69	75	76	77	67	61	60	73	81	97	98	98	84	56	66	69	81	69	84	92	87	72.6
	Minimum	40	40	49	42	40	36	42	45	46	47	41	50	56	50	54	40	36	49	53	64	66	72	54	41	40	46	55	58	55	67	70	49.8

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

TOTAL PRECIPITATION, MAY, 1925



Scale of Shades—In Inches.

Less than 1 | 1 to 2 | More than 2

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. XXXVI DES MOINES, IOWA, JUNE, 1925 No. 6

GENERAL SUMMARY

The principal feature of the weather during June was the breaking of the persistent drouth that has prevailed throughout the previous months of the year. The average precipitation for the State exceeded the total for the preceding five months by more than one inch, and several stations reported amounts that exceeded the total for eight months preceding. As is usual during periods of heavy rainfall, there were the accompanying destructive elements, including hail, severe electrical storms, damaging straight winds, tornadoes, and floods. Minor tornadoes were reported at several places on the 1st, but on the afternoon of the 2d a large area in the western part of the State reaching eastward to Greene county reported unusual tornadic activity. The damage was especially heavy in portions of Woodbury, Harrison, Pottawattamie, Shelby, Mills, Montgomery, Cass, and Adair counties on the 2d, consisting of many separate tornadoes advancing in the same general direction. Small villages were almost completely destroyed and the path of destruction at a point near the line of Harrison and Pottawattamie counties was nearly five miles wide. Much of the area was again visited by a series of tornadoes on the afternoon of the 3d. One locality in the west-central portion of the State was visited by three distinct tornadoes, two being within a short period on the afternoon of the 2d. On the afternoon of the 11th tornadoes developed over a large area from Franklin and Cerro Gordo counties eastward to Fayette county, which injured many people, destroyed farm buildings, and damaged crops. More details of these tornadoes will be published next month. There is not sufficient time to carefully consider and arrange the data for this report. Destructive hail occurred over limited areas in the southwestern counties, portions of Woodbury county, and from Calhoun and Pocahontas counties northeastward to Winneshiek county. The fall was especially heavy in localities. In the southern portion of Floyd county, a stream that is normally dry rose to a height of 20 feet and was over 100 yards wide. Residents in the district reported the fall of hail on the level to be from two to four inches deep. A picture was taken of the hail at a turn in a creek known as "Bloody Run" where the hail had collected, and it showed a bank from two to four feet deep that covered one and one-half acres. At the time the picture was taken, the day following the storm, there were still stones to be seen that were two inches in diameter. The damage from hail amounted to probably more than $250,000 and from straight winds and tornadoes to an amount exceeding $800,000.

The temperature averaged slightly above normal, being greatest in the southern division. There were no periods of oppressively warm weather, and the fluctuations were frequent beginning with the most protracted warm period during the first week and terminating with the coolest period of the month during the last week. All crops were greatly benefited. Corn made unusual growth and the straw of small grain lengthened considerably, so that much that seemed too short to harvest will be gathered in the usual manner. Pastures that were bare in the beginning of the month were soon revived and minor crops responded quickly to the favorable growing conditions. The rains came so late that hay will not make more than half a crop.

As practically all the flood damage occurred in the northeastern portion of the State, a complete report furnished by the Official in Charge of the Dubuque station appears elsewhere in this report. F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 101 stations, was 70.4°, or 1.1° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 68.4°, or 0.4° higher than the normal; Central, 70.8°, or 1.2° higher than the normal; Southern, 71.9°, 1.7° higher than the normal. The highest monthly mean was 74.2°, at Keokuk, and the lowest was 66.0°, at Postville. The highest temperature recorded was 98° at Glenwood, Little Sioux and Perry on the 20th, and the lowest was 38°, at Milford on the 9th. The temperature range for the State was 60°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 107 stations, was 6.64 inches, or 2.11 inches greater than the normal. By divisions, the average were as follows: Northern, 7.20 inches, or 2.59 inches greater than the normal; Central, 5.77 inches, or 1.31 inches greater than the normal;

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
1890	72.7	+3.4	106	44	7.76	+3.23	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	12
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

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

Climatological Data for June, 1925

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	52	70.0	+ 1.4	91	5†	43	10	41	5.46	+0.95	3.09	0	8	21	3	6	se.	W. E. Laird
Allison (near)	Butler	1,044	13	68.6	+ 0.5	90	1†	44	28†	35	5.46	+0.51	1.81	0	11	13	11	6	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	69.0	+ 1.2	92	20	47	10	33	8.20	+3.04	2.03	0	10	17	13	0	s.	D. E. Hadden
Alton	Sioux	1,305	20	69.2	+ 0.8	92	6†	46	29	36	3.24	—0.72	0.83	0	10	8	15	7	se.	W. S. Slagle
Belmond	Wright	1,205	15	69.8	+ 1.3	93	5†	42	10	37	10.10	+5.34	3.60	0	14	5	21	4	s.	Geo. P. Hardwick
Britt	Hancock	1,236	38	67.8	+ 0.4	91	5†	43	10	33	9.40	+4.87	2.87	0	10	15	5	10	se.	Jas. S. Ross
Charles City	Floyd	1,015	34	68.1	+ 1.6	92	5	44	10	31	9.39	+4.71	5.32	0	16	14	11	5	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	68.4[a]	------	91[a]	20	43[a]	10	33[a]	5.35	------	1.92	0	11	15	11	4	s.	J. E. Wirth
Decorah	Winneshiek	875	32	66.8	— 1.2	92	6	39	28	41	8.75	+4.23	2.54	0	15	15	13	2	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	70.2	+ 0.8	90	5	46	11	37	10.80	+6.45	3.19	0	12	10	12	8	s.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	68.0	+ 1.1	95	6	40	27	42	5.10	+0.76	1.45	0	12	18	11	1	s.	A. O. Peterson
Fayette	Fayette	1,003	35	------	------	90[b]	2	42[c]	28	32[c]	7.39	+2.55	1.66	0	17	----	----	----	sw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	67.8	0.0	90	5†	42	10	32	7.15	+2.60	2.40	0	13	14	7	9	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	68.1[a]	+ 0.1	92	5†	42	10†	34	6.01	+1.07	2.08	0	12	18	8	4	sw.	L. H. Davis
Humboldt	Humboldt	1,095	37	70.1	+ 0.8	95	5†	43	10†	37	5.17	+0.79	1.34	0	11	14	8	8	se.	H. C. Snitkey
Independence	Buchanan	921	61	69.0	+ 0.7	90	1	44	10	35	9.47	+4.85	3.30	0	13	16	12	2	nw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	68.8	+ 1.1	92	5†	43	29	40	4.70	—0.61	1.37	0	12	17	9	4	s.	A. C. Hanson
Le Mars	Plymouth	1,224	29	69.5	+ 0.9	90	6†	45	29	33	5.89	+1.51	2.45	0	13	17	10	3	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	68.2	+ 0.6	92	5†	43	29	32	8.51	+3.37	3.42	0	11	11	15	4	se.	Amer. Beet Sugar Co.
Milford (near)	Dickinson	1,430	5	66.8	------	93	21	38	9	37	3.39	------	1.17	0	7	17	6	7	s.	S. N. McKinsey
New Hampton	Chickasaw	1,169	28	67.2	— 0.5	91	6	41	10	34	7.69	+3.12	1.45	0	17	16	8	6	nw.	A. F. Kemman
Nora Springs	Floyd	1,064	13	67.9	— 0.8	92	5†	42	10†	33	11.34	+6.25	3.86	0	17	15	12	3	s.	Arthur Betts
Northwood	Worth	1,222	29	66.8[f]	+ 0.1	89[g]	5	41[e]	10	29[h]	8.40	+3.54	3.65	0	12	9	13	8	sw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	68.2	------	94	5	43	10†	33	13.30	------	6.50	0	10	----	----	----	s.	John T. Ridler
Osage	Mitchell	1,163	----	67.2	------	92	1	39	10	33	9.04	------	4.43	0	15	11	11	8	nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	69.2	+ 0.9	91	5†	43	10†	34	5.10	+0.46	1.48	0	12	17	9	4	se.	F. E. Hronek
Postville	Clayton	1,180	26	66.0	+ 0.3	87	5†	39	28	32	10.49	+5.83	2.86	0	16	11	13	6	w.	F. L. Williams
Rock Rapids	Lyon	1,358	26	68.7	+ 0.8	92	6	41	28	40	4.75	+0.13	1.14	0	13	16	7	7	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	67.9	+ 0.2	92	20†	40	10	42	3.09	—1.64	0.81	0	10	16	8	6	n.	J. W. Dow
Sioux Center	Sioux	1,426	26	------	------	90[b]	5†	45[b]	10	37[b]	4.65	+0.59	1.27	0	11	----	----	----	se.	J. de Ruyter
Spencer	Clay	1,319	11	69.7	+ 1.2	95	6	41	28	38	3.55	—0.65	0.67	0	11	10	16	4	se.	E. W. Little
Storm Lake	Buena Vista	1,440	36	69.4	+ 0.9	90	20	48	10†	30	5.34	+0.34	1.50	0	9	18	7	5	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	69.3	+ 1.2	92	20	47	10†	36	10.05	+5.47	4.00	0	11	16	7	7	s.	H. L. Felter
Waterloo	Black Hawk	854	42	70.0	+ 0.6	92	6†	42	10†	37	6.99	+2.86	1.35	0	14	15	9	6	se.	R. B. Slippy
Waverly	Bremer	936	29	69.0[a]	+ 0.8	91[a]	1†	43[a]	10†	34[a]	10.10	+5.83	2.85	0	16	21	6	3	nw.	D. H. Murphy
West Bend	Palo Alto	1,197	32	68.9	+ 0.5	91	20	41	10	38	6.37	+2.08	3.50	0	10	13	13	4	s.	Jos. Dorweiler
Means and extremes		------	----	68.4	+ 0.4	95	5†	38	9	42	7.20	+2.59	6.50	0	12	15	10	5	s.	
Central Division																				
Ames	Story	926	48	71.2	+ 1.3	94	20	46	28	37	4.08	—0.29	1.43	0	12	18	8	4	nw.	Iowa State College
Audubon	Audubon	1,297	30	69.9	+ 1.6	95	20	47	10	35	7.56	+3.54	3.67	0	14	15	12	3	s.	Geo. Kibby
Baxter	Jasper	998	25	70.2	+ 0.6	95	20	41	28	39	3.87	—0.72	1.16	0	8	14	13	3	s.	Henry Geise
Belle Plaine††	Benton	866	35	71.2	+ 2.0	94	6	44	10†	42	4.75	+0.40	1.56	0	12	13	13	4	s.	O. C. Burrows
Boone (near)	Boone	1,134	20	70.6	+ 1.6	96	20	45	29	43	4.83	+0.30	2.90	0	10	12	11	7	se.	C. F. Henning
Carroll	Carroll	1,265	35	70.2	+ 1.8	95	20	43	30	39	5.26	+0.48	1.33	0	10	16	8	6	se.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	71.2	—0.2	96	5†	40	28	43	7.02	+2.67	2.11	0	11	16	5	9	sw.	J. T. Wurster
Clinton	Clinton	595	52	71.2	+ 0.8	92	4†	45	10	37	6.78	+2.39	2.58	0	10	21	6	3	s.	Dr. A. P. Bryant
Davenport	Scott	580	54	72.6	+ 2.1	94	5	50	10	37	7.56	+3.56	1.81	0	11	12	10	8	s.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	72.5	------	95	5†	47	10	41	7.97	------	1.79	0	14	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	70.0	+ 0.9	93	20	49	10†	38	6.97	+2.88	2.70	0	14	17	7	6	nw.	V. L. Byers
Des Moines	Polk	861	47	72.0	+ 1.4	97	20	51	10	35	6.44	+1.84	3.13	0	13	10	9	11	s.	U. S. Weather Bureau
Fairport	Muscatine	567	4	72.7	------	91	20	49	10	38	5.40	------	1.68	0	12	17	7	6	sw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	69.2	+ 0.2	93	6	43	10†	37	7.33	+2.91	1.79	0	13	17	3	10	s.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	71.5	+ 1.9	96	20	48	10	38	4.25	—0.30	1.32	0	10	16	11	3	se.	Paul P. Meyers
Grundy Center	Grundy	976	34	69.8	+ 0.1	97	21	40	10	41	5.99	+0.91	1.41	0	9	14	3	13	s.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	70.4	+ 1.4	97	20	43	30	43	4.72	+0.26	2.08	0	9	18	8	4	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	71.0	+ 1.9	96	20	54	8†	33	5.91	+1.28	2.00	0	14	13	15	2	s.	Nels Bisgard
Iowa City	Johnson	733	65	70.4	+ 1.3	92	20	42	28	38	5.61	+1.12	2.57	0	13	15	8	7	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	68.7	+ 0.8	91	5†	42	10†	35	6.45	+0.99	2.48	0	12	15	9	6	s.	J. B. Parmelee
Jefferson	Greene	1,052	26	70.0	+ 0.8	92	20	47	29	37	7.16	+2.96	3.76	0	9	17	7	6	sw.	W. I. Lyon
Kalo††	Webster	------	----	----	----	----	----	----	----	----	6.62	------	3.10	0	7	----	----	----	------	S. C. Fuller
Little Sioux	Harrison	1,040	20	72.8	+ 2.7	98	20	51	9†	44	4.54	+0.28	0.80	0	17	14	11	5	sw.	H. W. Kerr
Logan	Harrison	1,035	58	73.2	+ 3.4	96	20	51	10†	41	5.92	+0.74	2.52	0	12	17	6	7	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	68.8[a]	------	90[a]	6	43[a]	10	36[a]	7.49	------	2.38	0	13	----	----	----	nw.	John Strodthoff
Marshalltown	Marshall	947	33	71.8	+ 1.5	95	20	46	28	37	2.99	—1.58	0.57	0	12	17	9	4	s.	C. C. Pigman
Monroe	Jasper	922	13	72.7	+ 2.9	97	20	52	10†	38	4.78	+0.28	1.46	0	10	18	6	6	s.	J. A. Dibel
Olin	Jones	760	26	70.2	+ 0.7	91	6†	44	28	36	8.90	+4.72	2.40	0	10	21	7	2	se.	Mrs. L. Stingley
Onawa	Monona	1,051	24	70.6	+ 0.6	94	20	50	29	37	5.10	+0.42	1.07	0	16	14	6	10	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	71.3	+ 0.8	98	20	44	30	44	3.58	—0.84	1.75	0	11	16	7	7	s.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	------	------	96[c]	7†	46[c]	10	34[c]	4.25	—0.48	1.35	0	10	----	----	----	nw.	A. W. McIsaac
Sac City††	Sac	1,278	49	70.6[c]	+ 1.3	92[c]	5†	47[c]	10	34[c]	4.81	+0.06	1.48	0	10	----	----	----	s.	F. P. Kessler
Sioux City	Woodbury	1,135	36	71.3	+ 1.8	95	20	51	10	32	5.36	+1.66	2.33	0	9	9	12	9	s.	U. S. Weather Bureau
Tipton	Cedar	807	26	69.6	— 1.1	90	5†	46	10†	35	5.92	+1.82	2.20	0	13	10	18	2	w.	Chas. H. Obye
Toledo	Tama	856	31	70.2	+ 0.3	93	20	41	28	40	3.83	—0.69	0.90	0	12	23	5	2	se.	I. F. Giger
Waukee	Dallas	1,039	22	71.2	+ 1.7	97	20	49	10†	40	6.27	+2.18	2.68	0	11	18	8	4	se.	Samuel F. Foft
Webster City	Hamilton	1,042	20	68.8	— 0.4	93	6	41	28	39	6.76	+2.51	1.45	0	9	17	7	6	se.	Frank A. Bonebright
Williamsburg	Iowa	765	9	69.9	+ 0.8	94	20	45	30	44	5.11	+0.61	1.71	0	10	19	8	3	se.	Dr. F. C. Schadt
Means and extremes		------	----	70.8	+ 1.2	98	20	40	10†	44	5.77	+1.31	3.76	0	12	16	8	6	s.	

Climatological Data for June, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	72.9[a]	+ 3.5	98[a]	20	50[a]	10	38[a]	8.46	+3.53	2.55	0	12				sw.	S. R. Brown
Albia	Monroe	959	27	71.4	+ 1.0	93	19†	48	10	36	6.22	+1.90	2.13	0	16	15	3	12	sw.	O. E. McBride
Atlantic	Cass	1,164	34	72.2	+ 2.8	96	20	50	10	41	6.66	+1.60	1.57	0	14	15	8	7	s.	Mrs. Martha E. Reynolds
Bonaparte	Van Buren	563	34	71.4	+ 1.3	89	5†	50	10	37	9.33	+4.97	3.77	0	11	18	6	6	sw.	B. R. Vale
Burlington	Des Moines	544	29	73.8	+ 2.1	95	6	51	11	41	9.43	+5.14	2.29	0	12	16	7	7	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	71.9	+ 1.4	91	20†	50	10	33	7.87	+3.47	3.22	0	13	18	2	10	se.	Thomas Wood
Chariton (near)	Lucas	1,042	30	70.7	+ 1.9	92	20	49	10	33	9.33	+4.95	2.54	0	9	15	10	5	sw.	C. C. Burr
Clarinda	Page	1,009	35	72.1	+ 0.7	93	19	52	9	35	5.25	+0.54	1.10	0	15	14	16	0	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	70.0	— 0.7	88	4†	48	28	36	4.93	+0.63	1.81	0	11	18	10	2	sw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	71.1	+ 1.6	95	20	50	8	41	8.10	+3.97	3.49	0	11	13	9	8	sw.	Jerome Smith
Corydon	Wayne	1,101	32	71.6	+ 1.4	92	19†	48	30	32	6.22	+1.58	1.73	0	10	12	15	3	nw.	A. T. Gallagher
Creston	Union	1,312	20	71.2	+ 2.5	95	20	47	9	38	6.67	+1.72	2.15	0	13				s.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26								4.72	+0.40	1.30	0	12	15	7	8	nw.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	72.4	+ 3.9	95	20	43	30	35	4.39	—0.04	2.00	0	10	21	5	4	se.	Geo. Phillips
Fairfield	Jefferson	780	41	71.1	+ 1.3	91	6†	49	28	39	9.86	+5.03	3.51	0	12	14	6	10	w.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	73.4	+ 3.0	98	20	52	10	34	5.63	+0.76	2.46	0	12	11	13	6	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	71.4	+ 1.4	91	19	50	10	33	5.57	+1.13	1.28	0	13	13	9	8	sw.	Seth F. Shenton
Keokuk	Lee	614	54	74.2	+ 1.7	94	6	52	10	37	4.79	+0.50	1.50	0	12	11	10	9	s.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	71.3	+ 1.1	92	20	48	30	35	8.99	+4.52	2.84	0	13	13	7	10	se.	J. H. Landes
Knoxville	Marion	920	30	71.4	+ 0.9	93	20	50	10†	36	7.59	+3.49	2.15	0	10	16	6	8	se.	W. J. Casey.
Lacona	Warren	824	26								9.66	+5.09	2.76	0	12	8	13	9		J. B. Alter
Lamoni	Decatur	1,123	18	72.0	+ 2.4	93	20	50	10	33	5.69	+0.84	1.93	0	14	16	3	11	se.	Roy L. Roberts
Lenox	Taylor	1,250	30	71.8	+ 1.0	96	20	50	10	38	7.68	+3.51	1.80	0	11	19	7	4	s.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	71.3	+ 1.3	93	20	50	10†	32	5.44	+0.70	1.60	0	14	15	6	9	s.	Alex Maxwell
Mt. Pleasant	Henry	729	44	71.0	— 0.6	92	4	50	11†	39	7.18	+2.15	2.32	0	11	14	7	9	sw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	71.8	+ 1.6	96	20	51	29	41	8.03		2.28	0	12	12	13	5	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	70.6	+ 1.0	92	20	50	28†	36	8.76	+4.78	4.48	0	10	12	8	10	sw.	Roy R. Robinson
Ottumwa	Wapello	649	30	73.1		93	20†	50	10	35	6.82	+2.81	2.19	0	12	17	6	7	s.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030									6.52		2.65	0	9	11	17	2	s.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	70.8	+ 1.1	94	20	48	28	38	4.91	+0.65	2.66	0	8	18	2	10	ne.	W. E. Utterback
Stockport	Van Buren	747	23																	C. L. Beswick
Thurman	Fremont	975	28	74.0	+ 2.2	96	20	53	9	33	7.08	+1.88	2.69	0	14	4	21	5	se.	C. R. Paul
Tingley	Ringgold	1,275		70.9		94	20	50	10	34	7.51		2.40	0	11	16	7	7	sw.	James A. Verploegh
Washington	Washington	769	43	72.6	+ 2.4	92	20	49	10	31	6.41	+2.50	3.45	0	7	18	1	11	se.	D. D. Sherman
Wescott (near)	Lee	523	3	73.8		93	6	52	10	38	6.06		2.40	0	8	18	6	6	nw.	Lester J. Larson
Winterset	Madison	1,129	34	71.3	+ 0.9	97	20	45	13	40	5.28	+0.41	1.65	0	8	17	7	6	sw.	H. S. Ely
Omaha, Nebr.		1,103	54	73.6	+ 2.0	99	20	53	10	33	7.42	+2.37	2.74	0	14	12	10	8	se.	U. S. Weather Bureau
Means and extremes				71.9	+ 1.7	99	20	43	30	41	6.96	+2.45	4.48	0	12	15	8	7	sw.	
State means and extremes				70.4	+ 1.1	98	20	38	9	44	6.64	+2.11	6.50	0	12	15	9	6	s.	

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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	29.91	30.37	30	29.44	2	76	55	63	37	6	5,783	8.0	29	se.	11	74	+ 6
Davenport	29.93	30.38	30	29.52	12	73	55	56	32	21	5,551	7.7	30	sw.	7	63	— 8
Des Moines	29.89	30.31	30	29.49	2	76	56	59	30	29	6,412	8.9	37	sw.	2	70	+ 3
Dubuque	29.90	30.38	30	29.50	12	76	56	58	39	†29	4,997	6.9	24	sw.	8	71	+ 7
Keokuk	29.94	30.36	30	29.56	12	75	56	59	26	5	5,725	8.0	37	sw.	15	69	—15
Sioux City	29.86	30.28	29	29.30	2	73	52	52	22	19	9,974	13.9	76	sw.	1	71	+ 8
Omaha, Neb.	29.87	30.25	29	29.33	2	74	52	56	30	†8	5,841	8.1	38	nw.	†14	72	+ 4
Means and extremes	29.90					75	55	58				8.8				70	+ 2
		30.38	30	29.30	2				22	19			76	sw.	1		
Normals and records	29.93	*30.61	10th 1913	§29.04	5th 1880	79	60	¶14	30th 1894		7.6		¶85	w.	22d 1917	68	

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

Southern, 6. 69 inches, or 2.45 inches greater than the normal. The highest amount, 13.30 inches occurred at Oelwein, and the least, 2.99 inches, occurred at Marshalltown. The greatest amount in 24 consecutive hours, 6.50 inches, occurred at Oelwein, on the 15th.

MISCELLANEOUS PHENOMENA

Fog: 15th, 22d.

Hail: 1st, 2d, 3d, 4th, 6th, 10th, 11th, 12th, 13th, 14th, 16th, 21st, 22d, 23d, 24th, 27th, 28th.

Halos (lunar and solar): 15th, 17th.

Light Frost: 28th, (1 station).

Thunderstorms: All dates except 5th, 6th, 9th, 20th, 30th.

Tornadoes: 1st, 2d, 3d, 4th, 7th, 11th, 12th, 16th, 23d, 28th.

Winds (damaging): 1st, 2d, 4th, 11th, 12th, 14th.

RIVERS

Rather low stages prevailed on the Mississippi River till the latter part of the 2d week, the heavy rains that occurred during the first week having affected the stages very little owing to the previous dry weather. During the rest of the

Daily Precipitation for June, 1925

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	
Northern Division																																
Algona	Des Moines		.16	.63	3.09				.21			.04	1.00		.11			.12				.05		.30							5.46
Allison (near)	Cedar	.30	T.	.13	.05				.21			.04	.55	.32	.77			.95				.33			1.81							5.46
Alta‖	Raccoon	.05		1.43	1.98				.80				.80			.10		2.03					.65	.04	.32							8.20
Alton	Floyd	T.	.44	.14	.69			.45					.57		.09			.14				T.	.57	.09	.06							3.24
Belmond	Iowa	.03	T.	.18	.80			.13			T.	2.16	1.44	.10	.21	.41		2.18		.06		.38	.02		2.00							10.10
Britt	Iowa	T.	T.	1.04	2.65				.70		T.	.37	2.87		.13			.64		.17		.08			.75							9.40
Charles City***	Cedar	.20	.17	.06				.26			.08	3.66	1.74	.08	.15	T.	.68	.16		.24		.85	T.		.96		.09	.01				9.39
Cherokee	Little Sioux		.30	.02	1.77			.24				.03	.53		.09			.30				T.	1.92	.10	.05							5.35
Decorah‖	Mississippi	.04	1.00	.82	.10				.43			.70	2.27	.27		.30		.90		.05			.82		.55	.35	.15	T.				8.75
Dubuque***	Mississippi	.97	.12	.66				T.	.04			.93	.80		1.26	1.93		1.48				.76	T.		1.84	.01	T.					10.80
Estherville‖	Des Moines	.05	.03	.30	.50				.55			.05	1.45	.05		.10				.25			.75		1.02							5.10
Fayette	Mississippi	1.29	.10	1.12	.06				.18			.10	1.43	.30	.37	1.00		.44		T.		.12	.06		.74	.03	.02	.03				7.39
Forest City‖	Cedar	T.	T.	.35	2.40				.08			.13	2.04	.38	.02		.03	.08		.37			.16		.65	.46						7.15
Hampton	Cedar	.04		.30	.29				.73			.22	.78	.27	.39	.01		.74				.16			2.08							6.01
Humboldt	Des Moines	T.	T.	T.	.47				.64		T.	T.	.85	.23	.19	.02		1.34		.12		.18	.14		.98							5.17
Independence	Wapsipinicon	.08	3.30	1.40					.11			T.	1.58		.21	.31		1.51		.06		.14	.14		.61	.02						9.47
Inwood‖	Big Sioux	.10	.17	.61	.83				.99	T.	T.	.01	1.37			.15		.05					.32	.02	.08							4.70
Lansing‖	Mississippi	.30	.66	1.30	.04				.30			.19	1.86	.16	.39	1.20		1.07		.03			T.		.02	.60	.08					8.20
Le Mars	Floyd	.08	.71	.03	2.45			.63			.02		.38		.09			.63				.03	.56	.11	.17							5.89
Mason City	Cedar	T.	.05	T.	1.24			.33			T.	.65	3.42	T.	.16		.43		.30			.85			.87	T.	.21					8.51
Milford (near)	Little Sioux	.10	.67	.51	.24			T.		T.			1.17		.07			T				T.		T.	.63							3.39
New Hampton	Wapsipinicon	.39	.11	1.45	.08				.25			.25	1.24	.14	.15	.09		1.08		.40		.97	.09		.80		.05	.15				7.69
Nora Springs	Cedar	.03	.06	.12	.75			.63			.15	1.37	3.86	.06	.22		1.44			.32		.95	.03		.98	.05	.32					11.34
Northwood	Cedar		T.	.90	1.00				.45			.13	3.65		.30	T.			.25	.40		.15			.77		.22	.18				8.40
Oelwein	Wapsipinicon	1.00	.20	1.10					.50				2.20			6.50		.50		.10		.25			.95							13.30
Osage	Cedar	.01	T.	.19	.88				.65		T.	.25	1.43	.08	.38		.26			.27		.31			1.03	.03	.07	.20				9.04
Pocahontas	Des Moines	.01	.80		1.48			.74				.04	.20		.13			.31		.50		.04	.45	T.	.40							5.10
Postville	Mississippi	.35	.40	1.65	.12				.12			.50	2.86	T.	.23	.85		2.50				.20	.09		.50	.02	.15	.02				10.49
Rock Rapids	Big Sioux	.87	.81		.33			1.09		.01	.03	.01	1.14		.20			.03		.08				.07	.08							4.75
Sanborn	Floyd		.52	.14	.31			.50					.81		.11					.06			.22	.10	.32							3.09
Sioux Center	Floyd	.34	.56	.20	.42			.36			T.		1.27		.12			.17				T.	.58	.12	.51							4.65
Spencer	Little Sioux	T.	.15	.03	.25			.50			.05	.37	.60		.07					.67			.35		.51							3.55
Storm Lake	Raccoon	T.	.64		1.50			.70					.57		.07			.76				.07	.79	T.	.24							5.34
Washta	Little Sioux	.05	.41	T.	2.02			.47		T.			1.40		.08		4.00					.02	1.35	.13	.12							10.05
Waterloo‖	Cedar	.01	.40	1.10	.05				.09				.86	.38	T.	.86		1.35		.03			.31		1.33	.20		.02				6.99
Waverly	Cedar	.32	.03	2.63	.07				.17			.06	.52	.35	.37	1.60		.50		.27		.29	.03		2.85			.04				10.10
West Bend	Des Moines	.03	.64	.01	3.50			.59			T.		.42		.11			.57				T.		.02	.48							6.37
Central Division																																
Ames	Skunk	.11	T.	1.43	.02				.50				.33	.02	.15	1.08		.06				.07	.25	T.	.06							4.08
Audubon	Nishnabotna	.03	T.	.16	1.70						.11	.02	.73	.02	.55	.25		.01				.02	2.67	.20	T.				.09			7.56
Baxter	Skunk	.45	.10	.27	T.			.10					.60		1.05							T.	1.16		.14							3.87
Belle Plaine	Iowa	.34	.23	.41	T.				.13			.11	1.56		.17	.53		.14				.10	.98		.05							4.75
Boone‖	Des Moines	T.	T.	.40	.04				.32				.16	.25	.10	2.90		.02					.56		.08							4.83
Carroll‖	Raccoon		T.	.45	.81				.89				.03	.23	.10	.90							1.33	.30	.22							5.26
Cedar Rapids‖	Cedar	.21	1.90	.88	.02				.12			.08		.72		.36	T.	1.80					.68		.21	.04						7.02
Clinton	Mississippi	.27		1.60					.14				.30		.63	.50		2.58				.15	.11		1.01							6.78
Davenport***	Mississippi	.66		1.81				1.62	.04				.68		.03	.26	T.	.73				.43	.06		1.30							7.56
Davenport (No. 2)	Mississippi	.02	.75	1.79				1.72	.06				.67	.14	.05	.34		.76				.34	.11		1.24	.02						7.97
Denison	Missouri	T.	.15	1.69	2.70				.26	.02		.09	T.	.03	.03	.03	.80					.57	.41		.08				.06			6.97
Des Moines***	Des Moines	.21	.16	.07					.22			.03	.43	T.	2.64	.49	T.	T.				.37	1.76	.01	.02				.03			6.44
Fairport	Mississippi	.11	.98	1.68					.10				.37	.22	.02	.83	.03	.07					.34		.65							5.40
Fort Dodge‖	Des Moines		.02	.17	.77				.75				.35	.85	.03	.65		1.14		.15			1.79		.64	.02		T.				7.33
Grinnell	Iowa	.40	.21	.48					.27				.68	.04	.06	.64						T.	1.32		.15							4.25
Grundy Center	Cedar	.41	T.	1.41	T.				.23			T.	.56	T.	.12	.13		1.27				1.13	T.		.73							5.99
Guthrie Center	Raccoon			.65				.07			.19		.48		.10	.89						T.	2.08	.16					.10			4.72
Harlan	Nishnabotna	.01	.16	2.00				.50			.11		.20	.60	.30	.25						.05	1.35	.05				.10	.20			5.91
Iowa City‖	Iowa	.17	.84	2.24	.33				.38					.62		.52	.05	.04					.31	.04	.03	.04							5.61
Iowa Falls‖	Iowa	T.	.10	.21	.06				.48			T.	.08	.39	.12	2.48		.87					.53		1.00	.13							6.45
Jefferson	Raccoon	.03	T.	T.	1.70			.25			T.	T.	.53			3.76		.04				.17	.49	T.	.19				T.			7.16
Kalo	Des Moines				3.10				.18					.48		.88		1.07					.43		.48							6.62
Le Claire‖	Mississippi		.62	1.19	.25				.18					.55		.16	.11	1.93					.41	T.	.33	.96	T.					6.69
Little Sioux	Little Sioux	.08	.70	.80				.55			.07	.01	T.	.32	.14	.47	.02					.26	.43	.12	.01			.48	.05	.03		4.54
Logan	Missouri	.05	.48	2.52				.57						.70	.34		.20					.31	.10	.15				.10	.40			5.92
Maquoketa	Maquoketa	.31	.72	1.03				.05	.06				.56		.02	.42		2.38				.30	.96		.67	.01						7.49
Marshalltown‖	Iowa	.04	.52	.51	.04				.11				.10	.47	T.	.57	.01	.25	T.				.30	T.	T.	.07						2.99
Monroe	Des Moines	.30		.81					.20		.02		.65	.12	.06	1.46						T.	1.12		T.				.04			4.78
Muscatine‖	Mississippi	.05	1.10	1.50	.40				.08					.38		.35	.14	.05					.06	.27	.54	.07							4.99
Olin	Wapsipinicon	.65	1.25	1.25				.15	.13				.40			.75		2.40				T.	.52		1.40							8.90
Onawa	Missouri	.15	.35	.12	.20			.60			.12	.05	.37	.37	.03	.25						.03	1.01	1.07	.18				.20			5.10
Perry	Raccoon	.01	T.	.42	.04			.31					.38	T.	.25	1.75						.03	.32		.04				.03			3.58
Rockwell City	Raccoon		.05	.25				.22	.23				.35	.20	.25			1.35					.70		.65							4.25
Sac City	Raccoon	.21		T.	.20			.50					.04	.03	.08	.01		1.48				T.	1.16	T.	1.10							4.81
Sioux City***	Missouri	.13	.50	2.33				.57		T.	T.	T.	.23		.07		1.00					.26	T.	.17				T.				5.36
Tipton	Cedar	1.30	.56	2.20					.12				.61		.01	.04		.07		.03		.55	.16		.22	.05						5.92
Toledo	Iowa	.90		.32	.03				.05				.68	.04	.10	.45		.28				.18	.70		.10							3.83
Van Meter‖	Raccoon		.07	.12					.25		.08		.08	.35		1.65							1.83	.25	.03				.03	.08		4.82
Waukee	Raccoon	.07	.01	.16				.44			.03		.48		.16	2.14						T.	2.68	T.	.03			.07				6.27
Webster City	Des Moines	T.		.85	1.13			.31					.78	T.		1.20		1.45		T.		.63	.12		.29							6.76
Williamsburg	Iowa	1.25	.74	1.71					.02			.04	.79		.05							.02	.46		.03							5.11

Daily Precipitation for June, 1925—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	
Southern Division																															
Afton	Grand	.40		2.55				.29		.12			.60		1.62	.75	.05						1.82	.02	.02				.22			8.46
Albia‖‖	Des Moines	.02	.27	1.45	.10				.22		.10	.13		.90		1.56	.57						.52	.30	.02	.01			.01	.04		6.22
Atlantic‖‖	Nishnabotna		.14	.40					.64		.32		.09	.87	.04	1.57	.61		T.				.87	.75	.25				.08	.03		6.66
Bonaparte	Des Moines	.56	T.	1.35					.30		.04		.24		1.29	2.48	.30						2.50		.06				.21			9.33
Burlington‖‖	Mississippi		.44	.41	.20				.40			.06		.32		2.29	.87	.61					1.67	2.08	T.	T.				.08		9.43
Centerville	Chariton	.62	.08	1.09					.07		.05		.91	.09	.45	2.77	.92						.52	T.	T.				.29	.01		7.87
Chariton (near)	Chariton	.39	.14	2.54				T.			T.	T.	1.22	T.	.70	.40	1.00	T.					2.42	T.	T.			.52				9.33
Clarinda‖‖	Nodaway		.50	.77	.04				T.		.40		.38	.37		1.10	.20	.05	.02				.08	.68	.24				.30	.12		5.25
Columbus Jct.	Iowa	.12	1.41	1.81					.17				.09	.09	.06	.27		.01					.76		.14							4.93
Corning	Nodaway	.58		1.82				.11			.12		.66		2.91	.58	.10	T.					.70	.20				T.	.32			8.10
Corydon	Chariton	.47		1.41				.10			.06		1.73		.55	.52	.42						.72						.24			6.22
Creston‖‖	Missouri		.47	1.42					.40		.15		.47	.48		2.15	.20	T.					.09	.61	.04				.18	.01		6.67
Cumberland (near)	Nodaway	T.	T.	.75				.05			.13	T.	.35	.10	.55	.57	.50	T.				.09	1.30		.22				.11	T.		4.72
Earlham	Des Moines	T.	.03					.07			.17		.30		.41	.78	.17	T.					2.00	.18					.28			4.39
Fairfield	Skunk	.35	.09	1.88					.26				1.38	.08	1.87	1.64	.33						1.81		.03				.14			9.86
Glenwood	Missouri	.14	.34	.26				.60					.37		1.96	.50	.50	.10					.40		.40				.08			5.63
Indianola	Des Moines	.79	.05	1.01				.55			.10		.64	.04	.15	1.13		T.					.92		.09				.05	.05		5.57
Keokuk***	Mississippi	.02	.04	.26				.27					.36		.70	1.17	.03	.05					1.50	.07	T.				.32			4.79
Keosauqua	Des Moines	.63	.02	1.20					.57		.14		.60	.07	1.17	1.67	.43						1.94		.07				.48			8.99
Knoxville	Des Moines	.18	.33	2.15					.17		T.		1.03	.08	.37	1.95	T.	T.					1.30	T.	T.					.03		7.59
Lacona	Des Moines	.75		2.76			.13				.12	.75			1.13	1.12	.25						2.44	.01	.05				.15			9.66
Lamoni‖‖	Grand	.20	.20	1.93	.29						.27		.15	.67		.30	.18						.28	.41	.41				.28	.12		5.69
Lenox	Missouri	.39		1.80				.37					1.19		1.18	.55	.06						.65	.78	.24				.47			7.68
Mt. Ayr	Grand	.24	.01	1.60				.28			.20		.72		.17	.28	.21	T.	T.				.89	.04	.34			T.	.45	.01		5.44
Mt. Pleasant	Skunk	.65		1.21					.24		T.		.50	.13	1.25	1.07	.42						1.51		.04				.16			7.18
Oakland	Nishnabotna	.09	.88	1.23				1.10					.58	.32	1.58	.70	.81	T.					T.	.15	.44			T.	.15			8.03
Oskaloosa	Des Moines	.79	.50	4.48					.25		T.	T.	.68		.37	1.02	.03	T.				T.	.57		.07				T.	T.		8.76
Ottumwa	Des Moines	.27	.18	.90					.24		.37		.38	.15	2.19	.69	.59						.67						.19	T.		6.82
Red Oak (near)	Missouri	T.	.27	.40				.38					.22		2.65	.36	.20						1.20	T.	.84							6.52
Sigourney	Skunk	.28	.21	2.66					.11		T.	T.	.25		.19	.47							.74									4.91
Stockport	Skunk																														
Thurman	Missouri	.26	.67	.55				.59			.08	T.	.92		1.64	1.05	.10	.12				T.	.78	T.	.12			T.	.05	.15		7.08
Tingley	Platt	.52		2.40				.13			T.		.89	T.	.56	.33	.24						1.80	.16	.05				.50	T.		7.51
Washington	Skunk	1.91	1.54						.11				.69		.20	.82						T.	1.21		T.	T.			T.			6.41
Wescott (near)	Mississippi	.18		.40					.25		T.		.65		.75	1.25							2.40	.18								6.06
Winterset	Des Moines	.08		.50					.20		.26		.57		.41	1.30							1.65						.33			5.28
Omaha, Neb.***	Missouri	.08	.19	.18				.76		T.		T.	.09	1.80	.74	.16	.04	.01				.01	.54	2.74				.08	T.			7.42

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.

month there were several sharp rises but no flood conditions developed. There was considerable fluctuation on the interior rivers following each period of heavy rain with some sharp rises, but there was no flood damage except in the northeastern portion of the State, principally on the Maquoketa and tributary streams. (See below.) There was a gradual rise on the Missouri River till the 2d week with mostly falling stages thereafter. Crest stages were below the flood stage and the only damage was on low lands in the lower course.

Intense Rainstorm of June 14-15, 1925, With Attendant Freshets in Northeastern Iowa

By H. Merrill Wills, Weather Bureau, Dubuque, Iowa

A series of four heavy rainstorms visited northeastern Iowa from June 11th to 24th, resulting in floods which took a toll of ten lives and cost in damage to property, including livestock, prospective crops, highways and bridges, railway trackage and bridges, and town properties, a total of approximately $1,888,000. This discussion has to do mainly with the most intense of the four storms and it will be taken up first.

One of the heaviest downpours in recent years at Dubuque occurred on the night of June 14-15, 1925, when 3.15 inches of rain fell between the hours of 10 p. m. and 4 a. m. and a total of 3.19 inches in the 24 hours. This is the greatest rainfall with a 24-hour period that has been recorded at Dubuque in the month of June since 1874, excepting that of June 16, 1892, when 3.48 inches fell; and is the heaviest single rainstorm of any month since October 4, 1919, when 3.38 inches were recorded.

The rain fell at an excessive rate from 10:25 p. m. to 10:35 p. m. and again from 1:00 a. m. to 1:37 a. m. The greatest falls within limited periods were as follows: 5 minutes, 0.32 inch; 10 minutes, 0.48; 15 minutes, 0.70; 30 minutes, 1.18; 1 hour, 1.45; 2 hours, 1.87.

The storm was accompanied by brilliant lightning and considerable thunder, the flashes of lightning being almost incessant throughout the storm. However, there was apparently very little damage caused by the lightning.

As compared with the last previous rainstorms of similar intensity, namely, those of July 9, 1919 (3.87 inches), and October 4, 1919 (3.38 inches), the total duration of fall was not greatly different, though the two previous storms occurred during the day, while the recent one occurred at night. Moreover, those of 1919 were much more intense for a short period of time and were decidedly more destructive to streets and other property in Dubuque. Also, the storm of July 9, 1919, destroyed considerable property at Union Park and cost the lives of five persons there and two in Dubuque. In the two former instances most of the lower flat sections of the city were under water, while only comparatively small areas were inundated in the recent storm. Again, while the storms of 1919 were local in character, that of June 14th-15th was quite general over the major portion of northeastern Iowa, resulting in severe freshets in the streams west and north of Dubuque. The rain caused a rise of nearly 3.0 feet in the Mississippi at Dubuque, but that only brought the water up to a stage of 8.8 feet, though a stage of 11.1 feet was reached a week later due to subsequent storms.

Many of the streams and rivers of northeastern Iowa rose rapidly from the torrential rains and left their banks in the upper reaches about 1 a. m. and raged through towns and rich bottom lands for several hours causing damage approaching the two million dollar mark and costing the lives of seven persons. The greatest losses in single localities were sustained by the three towns of Manchester, Dyersville and Cascade, though thousands of acres of corn and

(Continued on Page 47)

Daily Maximum and Minimum Temperature for the Month of June, 1925

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	Maximum	88	76	78	89	91	91	89	84	84	84	79	89	82	78	80	80	82	88	88	79	90	84	78	75	78	77	72	80	77	80	82.2
	Minimum	64	55	60	63	60	68	66	55	54	43	52	62	54	59	65	60	64	56	64	60	61	64	57	56	54	60	52	45	46	52	57.7
Alta	Maximum	84	73	79	87	88	90	87	71	67	73	87	70	83	78	84	83	78	85	84	92	86	83	75	68	68	77	73	76	82	82	79.8
	Minimum	60	55	57	63	70	66	65	51	53	47	58	60	55	58	64	60	62	56	65	61	66	65	63	60	52	57	50	49	49	52	58.3
Alton	Maximum	86	73	82	88	91	92	88	73	68	70	89	84	82	77	82	83	79	87	85	92	85	81	73	69	79	78	76	76	80	85	81.1
	Minimum	64	52	54	54	72	69	65	53	52	47	56	61	52	55	60	58	62	54	62	56	65	67	65	61	53	59	50	48	46	50	57.4
Belmond	Maximum	89	83	77	90	93	92	91	82	78	68	82	78	81	75	81	80	75	83	87	93	87	84	80	72	78	80	71	81	75	81	81.6
	Minimum	65	65	63	65	69	64	67	56	54	42	51	60	55	57	63	60	53	57	64	58	58	63	60	56	55	59	54	44	47	53	57.9
Charles City	Maximum	92	79	77	90	92	92	91	71	66	64	77	77	80	75	80	78	80	79	82	84	86	84	76	72	73	72	66	74	73	78	78.7
	Minimum	61	56	65	71	70	66	67	57	53	44	48	57	54	59	62	61	61	58	61	56	58	63	59	56	54	58	49	45	46	51	57.5
Dubuque	Maximum	87	80	77	90	90	90	87	77	74	67	83	86	78	77	83	77	86	78	84	88	87	83	78	71	69	74	67	75	73	77	79.8
	Minimum	63	64	64	74	73	70	69	64	56	49	46	62	57	62	65	63	63	63	62	62	63	66	58	57	57	60	53	50	51	53	60.6
Forest City	Maximum	89	75	77	89	90	90	88	83	69	62	72	71	81	75	77	77	80	81	81	86	88	84	78	73	73	72	68	76	72	77	78.5
	Minimum	67	54	60	62	68	66	65	54	52	42	49	57	54	58	65	57	61	67	61	56	58	62	60	56	52	57	51	44	46	50	57.0
Independence	Maximum	90	84	77	88	89	88	89	83	73	71	81	83	78	76	79	80	84	80	83	88	86	81	81	77	71	73	73	75	73	76	80.3
	Minimum	64	58	61	68	54	65	66	56	58	44	48	64	52	60	64	58	61	58	61	57	59	64	57	55	54	68	54	45	49	50	57.7
Inwood	Maximum	87	70	87	89	92	91	87	73	70	68	84	72	81	77	83	82	79	87	86	92	92	81	75	69	73	80	73	78	83	86	80.9
	Minimum	61	51	52	64	70	70	65	51	49	46	56	60	52	56	57	58	58	52	61	61	66	66	64	60	50	55	48	49	43	52	56.8
Mason City	Maximum	90	77	79	90	92	92	89	83	67	63	72	74	81	76	79	76	78	81	81	86	86	84	76	70	74	72	70	74	73	77	78.7
	Minimum	67	54	63	64	68	67	82	55	58	45	47	60	55	57	66	59	63	56	61	54	54	61	59	57	52	57	50	45	43	48	57.6
Milford (near)	Maximum	84	70	82	86	89	89	88	69	65	79	81	79	78	74	78	81	76	83	83	87	93	82	78	68	76	74	70	75	76	82	79.2
	Minimum	60	50	53	62	69	65	64	49	38	49	52	59	51	53	62	57	61	51	59	54	60	63	60	58	49	55	45	40	39	45	54.4
New Hampton	Maximum	90	80	77	87	90	91	89	75	68	63	78	78	79	76	80	79	81	79	82	86	86	83	76	69	72	72	66	76	77	79	78.8
	Minimum	56	54	62	67	66	63	65	53	52	41	44	61	51	56	64	59	61	56	60	55	56	55	62	54	52	55	52	42	45	49	55.6
Northwood	Maximum	88	----	----	88	89	88	87	76	62	61	70	71	79	74	78	73	79	79	81	84	85	83	75	68	----	----	----	74	----	----	77.9[a]
	Minimum	66	----	53	----	65	63	62	53	52	41	46	56	53	54	63	56	57	56	59	72	57	61	57	53	----	----	48	45	48	----	55.8[a]
Pocahontas	Maximum	87	79	80	87	91	91	89	72	69	70	86	81	84	77	82	83	82	84	85	90	88	82	79	72	78	77	71	77	78	82	81.1
	Minimum	63	50	59	63	71	66	64	54	51	43	65	64	53	54	65	59	63	54	63	56	61	65	63	59	54	57	50	43	45	48	57.2
Postville	Maximum	85	77	74	85	87	87	87	77	76	60	72	76	76	73	76	72	80	74	80	84	82	80	75	69	67	66	65	71	68	74	75.8
	Minimum	56	60	64	68	75	70	65	50	51	42	45	61	60	58	62	56	62	56	59	59	63	60	52	52	51	54	50	39	41	46	56.2
Central Division																																
Belle Plaine	Maximum	92	81	78	91	92	94	93	82	80	71	89	83	82	79	86	83	89	81	89	93	89	78	80	73	74	82	80	78	77	81	83.3
	Minimum	64	60	63	70	69	66	68	58	54	44	47	63	58	59	65	66	69	59	68	54	58	65	57	59	57	54	58	44	48	51	59.2
Boone	Maximum	87	84	86	91	93	93	92	76	76	75	90	85	85	81	83	82	82	86	90	96	86	80	79	75	78	78	74	78	81	81	83.2
	Minimum	66	53	64	71	71	65	65	56	54	48	56	62	49	56	63	62	65	54	61	53	59	65	62	60	56	57	49	46	45	46	58.0
Carroll	Maximum	82	81	79	88	91	91	90	76	71	75	88	82	83	80	80	84	83	86	90	95	89	82	81	73	78	79	74	74	80	82	82.2
	Minimum	65	55	60	66	61	60	63	54	54	48	58	58	56	57	65	62	65	56	65	56	63	63	61	60	53	58	52	54	50	46	58.1
Cedar Rapids	Maximum	92	85	82	94	96	95	94	84	80	73	90	90	85	82	90	87	90	83	90	96	94	85	85	77	73	83	76	80	81	83	85.8
	Minimum	59	58	61	70	67	61	61	59	56	43	47	62	51	54	63	61	65	58	57	53	55	64	58	56	55	57	50	40	49	45	56.5
Davenport	Maximum	89	81	79	93	94	93	91	79	80	70	89	87	82	82	84	83	90	80	89	90	91	76	80	69	71	79	74	77	77	81	82.7
	Minimum	64	65	64	74	73	72	66	67	56	50	52	64	61	63	67	65	67	65	63	62	65	68	59	60	60	61	57	53	57	56	62.5
Des Moines	Maximum	85	81	78	90	90	91	90	77	78	71	89	82	81	79	85	82	85	86	91	97	90	77	77	76	77	80	75	73	80	79	82.4
	Minimum	63	59	64	74	71	68	64	58	59	51	56	56	54	61	64	68	67	61	67	62	68	67	62	62	57	63	59	56	56	55	61.7
Ft. Dodge	Maximum	88	82	80	90	92	93	92	73	69	72	86	80	82	79	81	82	80	84	86	92	88	84	80	73	76	77	70	79	78	82	81.7
	Minimum	63	52	60	67	68	65	63	54	52	43	53	60	53	56	62	58	62	54	61	55	59	63	62	56	53	57	52	43	45	47	56.6
Grinnell	Maximum	87	81	78	89	91	91	91	84	78	74	88	85	80	80	84	85	85	82	89	96	89	82	81	76	75	78	74	79	78	81	83.0
	Minimum	61	59	62	71	69	67	68	57	56	48	51	60	53	58	63	65	69	60	64	58	61	65	58	58	56	60	54	67	52	51	60.0
Guthrie Center	Maximum	85	84	78	87	90	92	90	84	77	72	88	82	82	80	83	83	86	81	90	97	88	77	78	73	74	78	74	73	79	81	82.2
	Minimum	64	55	62	71	71	65	66	54	55	48	58	59	55	59	65	64	62	47	67	54	67	64	60	55	54	60	52	53	51	43	58.7
Iowa City	Maximum	82	81	77	90	89	90	90	82	78	71	87	85	80	77	83	84	88	79	87	92	88	79	78	73	73	79	73	79	76	80	81.7
	Minimum	64	61	62	70	69	65	67	62	57	48	51	65	54	57	65	67	69	60	59	54	57	66	59	59	59	58	52	42	50	49	59.2
Iowa Falls	Maximum	87	79	77	90	91	91	90	84	71	69	85	83	83	77	78	79	79	78	84	88	84	79	78	73	72	73	69	75	71	77	79.8
	Minimum	65	55	64	69	71	76	66	55	56	42	51	65	53	56	64	60	64	56	63	53	56	63	60	53	55	50	52	42	45	48	57.6
Little Sioux	Maximum	86	79	81	88	92	92	90	78	76	80	91	84	89	84	86	85	85	88	93	98	89	83	80	75	82	84	81	78	82	85	84.8
	Minimum	61	59	57	65	72	68	64	55	51	51	65	64	58	62	67	66	67	58	64	54	71	68	70	63	51	56	59	55	51	54	60.9
Marshalltown	Maximum	89	81	78	91	94	94	93	84	77	74	89	84	81	80	85	85	85	83	90	95	88	78	80	75	75	79	73	80	78	82	83.3
	Minimum	63	59	63	71	71	68	68	58	60	47	52	58	54	61	65	64	68	60	66	59	61	66	61	62	57	62	53	46	51	53	60.2
Olin	Maximum	89	79	78	89	90	91	90	80	78	70	86	86	78	80	87	79	89	81	88	91	88	83	81	77	73	79	75	79	76	77	82.2
	Minimum	64	61	63	71	65	61	63	55	45	51	64	53	56	65	62	65	60	57	55	56	66	57	58	58	58	57	53	44	49	48	58.2
Sioux City	Maximum	82	72	80	89	90	91	87	75	70	73	89	73	85	82	83	84	81	89	90	95	82	80	74	70	81	80	73	75	79	83	81.2
	Minimum	62	57	58	71	73	70	57	56	56	51	63	61	59	62	65	63	65	61	67	63	70	68	67	60	55	61	54	57	52	57	61.4
Southern Division																																
Albia	Maximum	86	83	79	89	90	91	90	78	83	70	88	86	81	75	84	85	89	83	93	93	90	81	79	76	77	81	80	71	82	80	83.1
	Minimum	59	58	60	71	68	65	68	57	55	48	52	60	51	56	63	65	72	61	63	59	65	65	61	64	56	58	53	51	52	52	59.6
Atlantic	Maximum	85	81	79	89	91	92	92	78	78	76	90	85	86	83	84	83	84	85	92	96	87	77	78	75	77	81	77	72	79	82	83.1
	Minimum	62	55	63	73	72	66	64	54	58	50	61	65	57	58	65	65	72	58	66	55	68	66	68	66	55	61	57	55	51	51	61.2
Burlington	Maximum	91	85	80	93	94	95	93	82	85	75	92	89	84	86	83	88	92	82	90	93	88	80	80	78	73	83	79	70	70	83	84.5
	Minimum	70	64	63	72	71	68	69	64	59	53	51	66	60	61	66	68	73	66	63	63	66	66	62	65	60	59	58	54	56	53	63.0
Columbus Jct.	Maximum	87	79	77	88	88	88	88	78	79	69	86	84	78	80	80	82	86	78	86	88	85	77	75	74	70	76	72	70	74	77	80.0
	Minimum	66	59	62	70	69	68	62	58	50	50	54	58	57	64	69	72	62	58	57	57	65	59	59	58	57	52	48	54	50	60.1	
Corning	Maximum	89	81	82	86	88	90	89	88	83	85	90	85	81	87	85	80	85	84	92	95	89	78	74	76	79	83	81	70	78	80	83.8
	Minimum	57	57	61	71	69	64	65	50	53	52	57	58	54	52	53	66	69	57	64	54	52	67	66	56	54	60	57	54	52	51	58.4
Corydon	Maximum	85	81	82	86	88	89	87	82	83	75	88	85	79	77	82	82	88	85	92	92	91	82	74	76	77	83	81	71	77	79	82.6
	Minimum	65	60	62	70	68	65	61	58	56	49	58	61	53	59	65	62	65	63	65	60	62	66	64	61	57	60	64	53	54	48	60.5
Fairfield	Maximum	89	82	77	90	90	91	91	78	82	71	90	88	82	82	80	84	90	81	88	91	87	78	80	77	73	80	77	69	78	80	82.5
	Minimum	64	59	61	71	68	64	64	59	57	51	51	62	53	55	59	68	73	62	60	57	59	65	61	63	59	58	54	49	53	51	59.7
Keokuk	Maximum	88	82	81	93	93	94	93	80	86	70	91	91	83	88	82	83	92	83	89	91	89	76	74	80	74	81	81	68	78	78	83.7
	Minimum	69	68	64	76	75	72	70	66	63	52	54	62	60	65	67	68	75	68	64	66	68	68	66	66	59	62	61	57	58	56	61.8
Lamoni	Maximum	85	82	79	86	89	89	89	81	82	78	89	82	80	89	85	85	86	86	92	93	91	81	73	78	80	84	81	74	71	82	83.7
	Minimum	57	59	61	68	67	63	66	56	54	50	61	57	52	59	65	65	69	62	63	60	68	68	66	66	54	58	58	53	55	53	60.2
Sigourney	Maximum	88	80	77	87	88	89	89	79	82	73	89	81	81	77	83	83	89	83	92	94	85	80	83	73	74	80	79	73	80	80	82.4
	Minimum	62	59	61	70	68	66	66	59	58	50	51	62	52	56	64	64	67	61	61	57	58	65	60	61	58	59	54	48	52	50	59.3
Thurman	Maximum	85	82	81	89	88	91	89	83	83	81	93	88	89	91	84	84	82	87	93	96	88	83	78	76	83	84	83	76	80	87	85.2
	Minimum	60	56	64	71	73	71	63	56	53	54	67	61	65	58	65	68	69	60	65	58	69	69	70	66	56	60	58	57	55	60	62.7
Winterset	Maximum	85	83	80	87	90	91	91	81	80	72	90	85	81	81	86	84	86	87	91	97	91	79	77	75	77	80	77	71	80	81	83.2
	Minimum	60	57	60	68	70	65	65	54	58	48	54	58	45	56	65	63	71	59	64	57	67	65	63	63	54	60	57	53	52	56	59.4
Omaha	Maximum	84	8[c]	78	90	92	92	89	80	75	79	93	78	84	85	83	84	79	87	91	99	90	79	76	74	80	82	79	71	79	8[c]	83.3
	Minimum	63	6	65	75	74	71	60	56	63	53	67	63	58	58	66	68	69	62	69	66	74	68	69	61	56	66	62	58	56	6[c]	64.0

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

other crops were destroyed in the lowlands along the streams, innumerable highway bridges were wrecked or seriously impaired, and railroads suffered heavily. The flood was generally considered the most disastrous in the history of the communities devastated, the water reaching one to several feet higher than in 1896. Railroad service west on the Illinois Central and Chicago-Great Western was completely abandoned for days, the trains being diverted over other routes.

The Maquoketa River freshet was the most damaging, perhaps due to its being the largest of the streams in flood and also to its passing directly through the three towns mentioned. Some of the details are given below:

MANCHESTER: (Delaware County): One-third of the city under water, 10 feet deep in some of the streets; electricity cut off; two deaths and a number of injuries; one lumber yard completely wiped out; heavy damage to stocks in many business houses; two 10,000-gallon oil tanks carried into river; many buildings moved from their foundations and some carried away; estimated damage within city, $200,000.

DYERSVILLE (Dubuque County): Entire west end of town including 100 residences inundated; water one and one-half feet higher than in 1896; Illinois Central and Great Western depots flooded for first time in history; a number of automobiles lifted and carried away; steel bridge 120 feet in length carried 900 feet; garages and other buildings carried away; three cars of lumber lost; 50 head of hogs nearby drowned; business stock ruined; estimated damage within city, $100,000.

CASCADE (Dubuque County): Entire west portion of town comprising about 25 blocks under water reaching almost to the second floor in many instances; water 5 feet higher than that of 1896, the greatest previously known flood in that vicinity; seven residences and stores, a number of other buildings and one church completely demolished, besides a dozen more residences that were damaged; many business houses with stocks flooded; several streets and sewers completely washed out; electricity cut off; an excavation made by the raging torrents where a street had been, measuring from one hundred feet to one-half block wide, several blocks long and fifteen to twenty-five feet deep, the earth at this point being sand which the onrushing waters carried a quarter to half mile and precipitated in great heaps; two deaths from drowning; by far the greatest blow the town had ever received from any source; estimated damage, $150,000.

ILLINOIS CENTRAL RAILROAD: About two miles of track or roadbed washed out between Dubuque and Manchester; several bridge approaches washed out for long stretches and some as deeply as 15 feet; engine fell partly through bridge east of Manchester; no train service over the line between Dyersville and Manchester till 10 a. m. of June 19th.

CHICAGO GREAT WESTERN RAILROAD: Approximately 60 miles of roadbed between Dubuque and Oelwein had to be rebuilt; 28 bridges out, of which 9 were large; several stations damaged; telegraph poles washed away over greater part of line; automatic block system almost entirely washed out; no trains over line for practically two weeks; service as far as Dyersville resumed June 27th, and through to Oelwein on the 29th.

NORTHWESTERN BELL TELEPHONE CO.: A loss of 65 poles in Dubuque County; 175 telephones in city and 125 outside, out of service till noon of June 15th; country lines restored by the 20th; estimated loss to company, $2,000.

In the city of Dubuque, there was considerable injury to pavements in sections, the damage to streets and sewers amounting to about $15,000. A great deal of debris was carried into the streets and many gardens were washed out. In Dubuque County, as in other counties, there was extensive damage to crops in the creek bottoms, especially just west and north of town, and also to road bridges, the county sustaining a loss or serious impairment of 26 bridges entailing a monetary loss estimated at $150,000, and requiring at least six months for replacements. Large areas of the Swiss Valley, the Rockdale bottoms, and all the lowlands around Sageville and Durango were inundated, resulting in severe damage to growing crops and considerable loss of farm property including livestock. The water covered a long stretch of the Sageville road and reached 6.6 feet deep at the Great Western viaduct, or 0.4 foot higher than the previous record made in July, 1919.

The approximate number of highway bridges damaged or carried away in northeastern Iowa is reported as follows: Buchanan County, 27; Clayton County, 10; Delaware County, 75; Dubuque County, 26; Winneshiek County, 5; Chickasaw County, 30; total estimated loss from this source, besides extensive damage in some counties to new road fills, is given as $400,000.

A close estimate of the acreage of crops destroyed in the entire flooded area has not been possible, but rough estimates gathered from the counties involved indicate an approximate total loss amounting to $490,000.

Further down the Maquoketa River, the water was not of record-breaking height. The recording river gage of the United States Geological Survey near the town of Maquoketa shows a crest stage of 19.7 feet at noon, June 17. This is 0.1 foot lower than the high water of Aug. 6, 1924, and 3.8 feet lower than the highest known water.

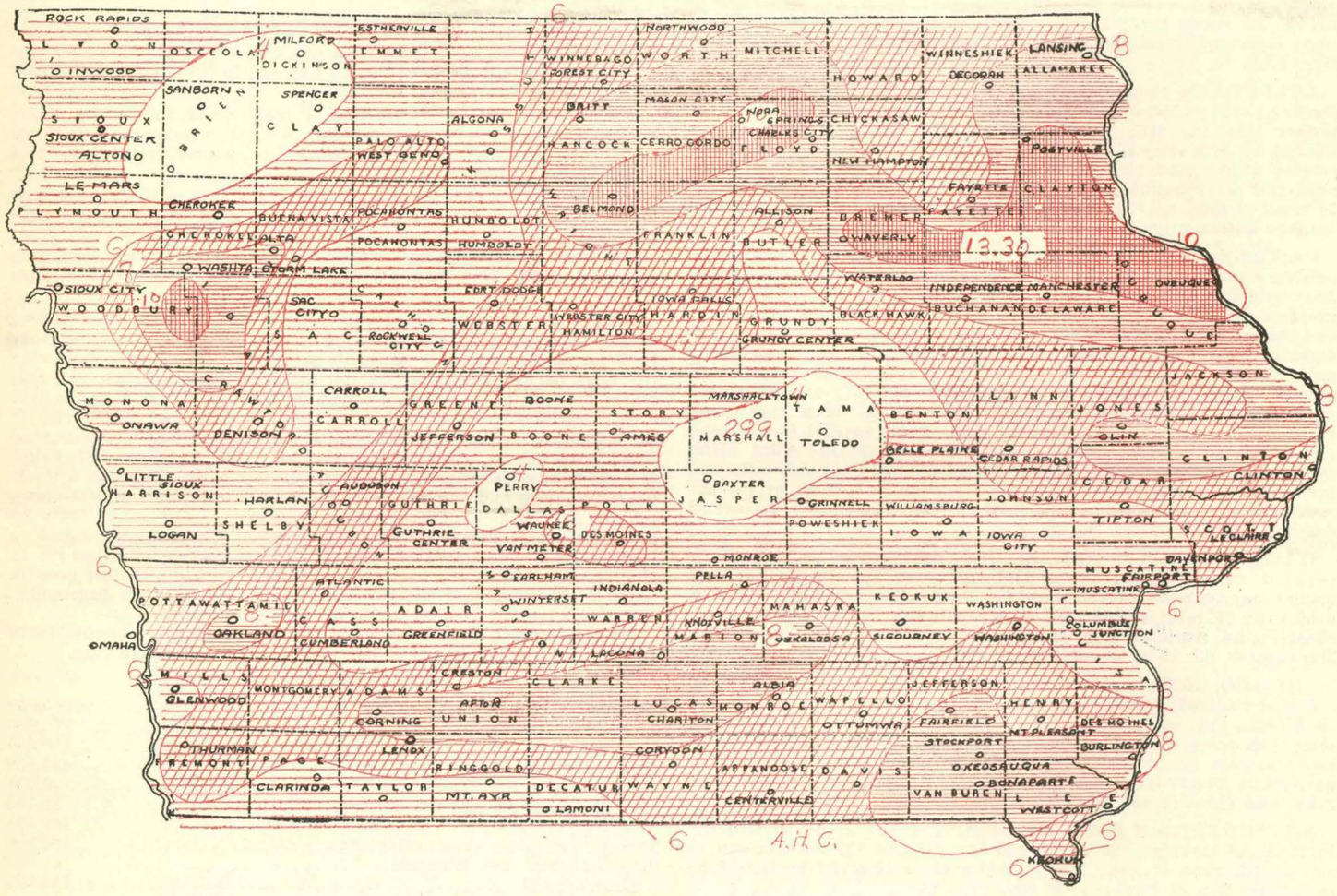
Rather heavy rains had preceded the storm just described, falling on the 11th and 12th and resulting in the drowning of two persons in Winnesheik County. A third heavy rain came just following the flood period, occurring on the night of the 16th-17th. In this storm the rain also fell at an excessive rate from 1:27 a. m. to 2:03 a. m. amounting to 1.48 inches. This caused another slight rise in the subsiding waters, some additional damage to roadbeds, and interfered with repair work already started. The Chicago, Milwaukee and St. Paul suffered a 100-foot washout east of Garber; also a washout 6 feet deep and 150 feet long, about four miles east of McGregor, resulting in a 12-hour suspension of service. The same company had a bridge at Green Island thrown out of line; estimated loss to road, $2,000. Considerable damage was caused by this storm in the town of McGregor, the water standing 6 inches to 3 feet deep in parts of the business district and injuring stocks in basements. One death from drowning occurred near Monticello.

On the 24th, a fourth heavy rainstorm occurred, amounting to 1.84 inches at Dubuque, but not falling at an excessive rate.

Summary of Losses

Town of Manchester, all losses	$200,000
Dyersville	100,000
Cascade	150,000
Total damage to railways	425,000
Northwestern Bell Telephone Company	2,000
Streets and sewers in Dubuque	15,000
Highway bridges and fills in six counties	460,000
Prospective crops over entire area	490,000
Miscellaneous, not itemized	46,000
Grand total	$1,888,000

TOTAL PRECIPITATION, JUNE, 1925



Scale of Shades—In Inches.

Less than 4	4 to 6	6 to 8	8 to 10	More than 10

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. XXXVI DES MOINES, IOWA, JULY, 1925 No. 7

GENERAL SUMMARY

High temperature almost continuously the first half of July, averaging 6 to 8 degrees above normal; and low temperature almost continuously the balance of the month resulted in a monthly mean slightly above normal. Following the cool close of June the temperature rose abruptly on July 1 to the highest readings since August, 1918. The daily range of temperature at some stations was the greatest July range in more than 20 years.

The precipitation was very unevenly distributed. A number of stations in the northeast, southeast, central and extreme northwest portions had an excess. At Dubuque and Lansing the excess was more than twice the normal. Most of the western half had less than half the normal. More than 75 per cent of the precipitation occurred during the first two weeks and over nearly half the State more than half the monthly total occurred on a single day. The last general rain of consequence was on the 14th, after which there were numerous light scattered showers, but only in a few places were the amounts sufficient to be of any agricultural benefit. Over most of the western half of the State and limited areas in the north-central, south-central, and southeast portions a severe drouth developed that caused much deterioration in the corn crop and many pastures to become completely bare. However, the cool weather that prevailed during the last two weeks lessened the damage to corn so that at the end of the month there was only a small per cent that was damaged beyond a partial recovery. The rains generally were almost all taken up by the soil and small streams and wells that failed during the previous dry weather were still dry, and stock water at many places was still scarce.

Severe wind squalls and hail storms occurred at frequent intervals from the 3d to the 30th. A severe local wind storm, accompanied by hail occurred at Dubuque on the 3d, causing damage to buildings of about $50,000. On the 6th, hail accompanying wind squalls, occurred over a large area in the northwestern portion and locally in Jasper, Johnson, and Appanoose counties. The greatest damage occurred in Cherokee county where some crops were damaged as much as 80 per cent, or a total of about $150,000. On the 8th hail and wind again occurred in Cherokee county, causing damage to crops and buildings of about $75,000. Also, in Monona county on the 8th, severe hail caused much damage to crops over an area 10 miles long, some fields as much as 50 per cent. Wind and hail storms also occurred on the 8th in Kossuth, Webster, Hamilton, and Woodbury counties, which caused much damage to crops, and blew down many telephone poles and damaged wires from Fort Dodge to Webster City. At Lakota five beet-field workers were injured. Local hail storms occurred at Appanoose, Pocahontas, Jones, and Clayton counties on the 12th, Lyon on the 13th, Jasper on the 14th, Wright and Hancock on the 15th, and Hardin on the 19th, the damage in Lyon county amounting to $25,000 and to $100,000 in Wright and Hancock counties. On the 24th hail occurred in Cedar, Des Moines, Appanoose, Johnson, Henry, and Scott counties. Crop losses in Scott county were placed at over $125,000, and buildings at $100,000. Local storms occurred in Johnson and Fremont counties on the 25th, and many places in the eastern portion of the State on the 26th, 28th, and 30th, but the damage was generally light except in Fayette county where some crops were damaged as much as 50 per cent.

Conditions were favorable for haying, harvesting, and threshing, more than half of the threshing having been completed at the end of the month. F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 104 stations, was 74.1°, or 0.3° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 72.3°, or 0.4° lower than the normal; Central, 74.4°, or 0.4° higher than the normal; Southern, 75.6°, or 1.0° higher than the normal. The highest monthly mean was 77.8°, at Thurman, and the lowest was 68.4°, at Postville. The highest temperature recorded was 105°, at Ames, Marshalltown, Monroe and Perry on the 1st, and the lowest was 40°, at Milford on the 22d. The temperature range for the State was 65°.

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
1890	75.6	+1.8	110	45	1.98	—1.87	5.00	0.37	------	3	18	8	5
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	5
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	------	9	16	11	4
1925	74.1	+0.3	105	40	2.66	—1.19	7.93	0.80	------	8	19	10	2

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

Climatological Data for July, 1925

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	52	73.6	+ 0.6	100	1	47	28	38	3.19	+0.13	0.96	0	6	27	4	0	se.	W. E. Laird
Allison (near)	Butler	1,044	13	72.1	— 0.7	98	11	43	28	36	2.11	—1.64	1.50	0	9	17	14	0	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	74.0	+ 1.6	98	1	47	28	34	2.04	—2.21	0.90	0	9	16	15	0	s.	D. E. Hadden
Alton	Sioux	1,305	20	74.0	+ 0.5	101	11†	43	22	38	2.48	—1.06	0.86	0	9	9	20	2	nw.	W. S. Slagle
Belmond	Wright	1,205	15	73.6	0.0	102	12	46	28	36	2.08	—1.54	0.61	0	9	9	22	0	nw.	Geo. P. Hardwick
Britt	Hancock	1,236	38	72.4	+ 1.2	101	12	45	28	35	1.31	—2.67	0.62	0	6	21	10	0	nw.	Jas. S. Ross
Charles City	Floyd	1,015	34	71.1	— 1.2	95	1	47	28	32	2.99	—0.85	1.04	0	12	15	13	3	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	72.2	------	98	1	42	22	37	2.47	------	1.10	0	8	----	----	----	s.	J. E. Wirth
Decorah	Winneshiek	875	32	70.2	— 2.0	98	11	42	23	38	2.87	—1.18	0.50	0	12	18	9	4	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	72.4	— 1.7	96	3	52	28	36	7.93	+4.06	3.47	0	15	6	14	11	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	71.3	— 0.6	100	11	46[a]	28	34[a]	1.50	—2.66	0.40	0	8	21	10	0	nw.	A. O. Peterson
Fayette	Fayette	1,003	35	71.2	— 0.7	95	11	45	23†	36	3.95	+0.12	0.75	0	12	23	8	0	nw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	71.4	— 0.8	96	11	46	28	33	2.00	—1.57	0.87	0	10	15	11	5	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	71.4	— 2.9	97	1†	46	28†	35	1.87	—1.78	1.25	0	9	23	6	2	nw.	L. H. Davis
Humboldt	Humboldt	1,095	37	73.8	— 0.3	102	1	44	28	39	3.16	—0.58	1.16	0	7	----	----	----	s.	H. C. Snitkey
Independence	Buchanan	921	61	73.2	+ 0.2	97	2	48	23†	37	2.33	—1.81	0.75	0	9	24	4	3	se.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	73.1	+ 0.5	101	13	44	22†	43	3.47	+0.10	1.55	0	9	24	5	2	nw.	A. C. Hanson
Le Mars	Plymouth	1,224	29	73.8	+ 0.5	98	1†	44	28	37	2.96	—1.12	1.02	0	6	26	5	0	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	70.7	— 1.7	98	11	43	29	37	2.05	—1.47	0.51	0	7	11	16	4	ne.	Amer. Beet Sugar Co.
Milford (near)	Dickinson	1,430	5	70.5	------	98	12†	40	22	39	2.31	------	1.35	0	4	17	12	2	n.	S. N. McKinsey
New Hampton	Chickasaw	1,169	28	70.7	— 1.5	96	11	45[a]	29	36[a]	3.77	0.00	1.62	0	9	15	15	1	nw.	A. F. Kemman
Nora Springs	Floyd	1,064	13	70.4	— 3.2	95	11	43	23†	40	3.20	—0.60	1.31	0	12	18	13	0	s.	Arthur Betts
Northwood	Worth	1,222	29	70.5	— 0.7	94[d]	11	47[e]	28†	32[f]	2.41	—1.42	1.40	0	7	14	15	2	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	72.0	------	97	1	46	29	35	4.30	------	1.60	0	9	17	12	2	s.	John T. Ridler
Osage	Mitchell	1,163	----	70.4	------	97	11	45	29	34	2.25	------	0.62	0	9	12	13	6	nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	74.0	+ 1.3	101	1	45	28	40	1.65	—1.80	0.82	0	10	21	9	1	ne.	F. E. Hronek
Postville	Clayton	1,180	26	68.4	— 1.6	91	11	45	28	32	5.57	+1.18	0.80	0	11	8	20	3	w.	F. L. Williams
Rock Rapids	Lyon	1,358	26	72.7	+ 0.1	102	12	43	28	42	1.92	—1.45	0.94	0	6	26	5	0	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	73.3	+ 0.5	104	12	43	28	39	0.80	—2.70	0.27	0	5	22	3	6	ne.	J. W. Dow
Sheldon	O'Brien	------	----	73.0	------	102	12	43	28	38	0.90	------	0.24	0	12	17	13	1	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	26	72.6	— 0.4	98	1†	47	22†	35	4.24	+0.41	1.92	0	9	22	6	3	s.	J. de Ruyter
Spencer	Clay	1,319	11	74.5	+ 1.1	103	15	41	22	43	1.75	—1.75	0.91	0	7	16	15	0	ne.	E. W. Little
Storm Lake	Buena Vista	1,440	36	74.4	+ 0.9	98	1	48	28	32	1.12	—2.95	0.27	0	9	24	6	1	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	73.0	+ 0.7	98	1	41	28	35	2.01	—2.22	0.75	0	7	26	4	1	n.	H. L. Felter
Waterloo	Black Hawk	854	42	73.8	+ 0.1	101	1	44	29	40	2.27	—1.71	0.70	0	8	24	5	2	nw.	R. B. Slippy
Waverly	Bremer	936	29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	D. H. Murphy
West Bend	Palo Alto	1,197	32	72.6	— 0.6	101	12	42	28	38	2.05	—1.42	0.69	0	11	17	14	0	s.	Jos. Dorweiler
Means and extremes	----------	------	----	72.3	— 0.4	104	12	40	22	43	2.64	—1.15	3.47	0	9	18	11	2	nw.	
Central Division																				
Ames	Story	926	48	75.1	+ 1.1	105	1	49	28	43	5.52	+1.66	3.01	0	6	20	10	1	nw.	Iowa State College
Audubon	Audubon	1,297	30	73.9	+ 1.2	98	1†	47	28	36	1.08	—2.59	0.60	0	4	22	9	0	sw.	Geo. Kibby
Baxter	Jasper	998	25	74.6	+ 0.4	104	1	48	31	42	3.58	—0.31	1.35	0	7	22	9	0	n.	Henry Geise
Belle Plaine	Benton	866	35	74.4	+ 0.9	100	1†	44	28	38	1.80	—2.15	0.53	0	10	14	17	0	nw.	O. C. Burrows
Boone (near)	Boone	1,134	20	73.8	+ 0.3	103	1	42	28	40	3.32	—0.40	2.10	0	5	----	----	----	se.	C. F. Henning
Carroll	Carroll	1,265	35	74.5	+ 1.3	101	1	45	28	37	3.19	—0.39	1.25	0	6	25	5	1	se.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	74.8	— 1.1	104	3	44	23†	46	3.08	—0.82	1.23	0	6	15	8	8	sw.	J. T. Wurster
Clinton	Clinton	595	52	73.4	— 1.4	99	3	47	28	39	2.43	—1.46	1.55	0	6	19	11	1	s.	Dr. A. P. Bryant
Davenport	Scott	580	54	75.2	— 0.1	99	11	52	28	32	3.34	—0.15	1.67	0	11	11	16	4	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	1	74.8	------	99	3	49	23†	37	3.59	------	1.68	0	12	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	74.6	+ 1.2	100	1	44	28	34	2.45	—1.30	1.42	0	8	23	8	0	nw.	V. L. Byers
Des Moines	Polk	861	47	76.3	+ 0.9	104	1	52	31	39	2.21	—1.40	1.69	0	3	15	8	8	n.	U. S. Weather Bureau
Fairport	Muscatine	567	4	75.2	------	97	3	52	29	33	3.20	------	1.15	0	8	16	6	9	sw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	73.1	— 0.9	101	1	45	28	39	6.54	+2.63	4.25	0	9	28	2	1	s.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	75.9	+ 1.6	104	2	49	28	40	7.56	+3.19	2.87	0	11	6	20	5	se.	Paul P. Meyers
Grundy Center	Grundy	976	34	73.1[a]	— 1.0	100	1	46[b]	28	34[b]	4.41	+0.68	2.42	0	6	17	7	7	n.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	74.4	+ 0.8	100	1	46	28†	36	1.10	—3.12	0.56	0	3	24	6	1	nw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	74.6	+ 1.5	100	1	45	28	35	1.42	—2.46	0.70	0	6	12	19	0	s.	Nels Bisgard
Iowa City	Johnson	733	65	73.8	0.0	98	11†	47	28	37	3.63	—0.49	1.37	0	9	16	14	1	sw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	71.6	— 0.7	96	1	46	23†	34	2.05	—1.89	0.51	0	11	20	9	2	s.	J. B. Parmelee
Jefferson	Greene	1,052	26	73.4	+ 0.1	100	1	46	28	39	0.85	—2.83	0.52	0	4	22	8	1	ne.	W. I. Lyon
Kalo	Webster	------	----	----	----	----	----	----	----	----	4.87	------	3.47	0	3	----	----	----	------	S. C. Fuller
Little Sioux	Harrison	1,040	20	75.4	+ 1.0	102	1	44	28	35	3.39	—0.81	2.70	0	7	22	9	0	nw.	H. W. Kerr
Logan	Harrison	1,035	58	76.2	+ 2.0	99	3	46	28	37	1.85	—2.56	0.85	0	4	23	6	2	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	71.5	------	95	11†	45	23†	40	3.99	------	1.28	0	13	10	6	15	sw.	John Strodthoff
Marshalltown	Marshall	947	33	75.7	+ 0.4	105	1	49	28	40	2.77	—1.24	0.63	0	7	17	12	2	sw.	C. C. Pigman
Monroe	Jasper	922	13	76.2	+ 1.2	105	1	46	28	42	4.11	+0.55	3.46	0	6	21	5	5	s.	J. A. Dibel
Muscatine	Muscatine	544	64	----	----	----	----	----	----	----	2.14	—1.57	1.47	0	7	----	----	----	------	Wm. Molis
Olin	Jones	760	26	73.0	— 1.0	99	3†	44	23†	42	2.23	—1.62	0.99	0	8	19	11	1	se.	Mrs. L. Stingley
Onawa	Monona	1,051	24	75.3	+ 1.0	102	1	47	28	35	2.18	—1.97	1.07	0	5	25	5	1	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	75.4	+ 1.2	105	1	43	28	44	1.33	—2.71	1.09	0	4	18	12	1	nw.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	------	A. W. McIsaac
Sac City	Sac	1,278	49	74.9	+ 2.0	103	1	50[a]	22†	36[a]	2.52	—1.15	1.30	0	8	----	----	----	n.	F. P. Kessler
Sioux City	Woodbury	1,135	36	75.6	+ 1.3	100	15	50	28	32	1.43	—2.01	0.64	0	5	12	16	3	s.	U. S. Weather Bureau
Tipton	Cedar	807	26	72.9	— 1.6	96	3	45	29	39	4.37	+0.54	1.20	0	10	15	14	2	se.	Chas. H. Obye
Toledo	Tama	856	31	73.6	— 0.6	102	1	44	28	40	2.38	—1.16	1.00	0	8	26	4	1	nw.	I. F. Giger
Van Meter	Dallas	872	6	----	----	----	----	----	----	----	1.69	------	1.00	0	5	----	----	----	------	Calvin K. Smith
Waukee	Dallas	1,039	22	75.6	+ 1.5	102	1	46	28†	40	1.46	—3.08	1.00	0	5	27	4	0	sw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	72.6	— 1.4	101	1	43	28	46	3.00	—0.34	1.40	0	8	20	11	0	ne.	Frank A. Bonebright
Williamsburg	Iowa	765	9	72.9	— 0.9	98	1†	43	23†	39	2.91	—1.04	1.06	0	9	24	6	1	sw.	Dr. F. C. Schadt
Means and extremes	----------	------	----	74.4	+ 0.4	105	1	42	28	46	2.94	—0.91	4.25	0	7	19	10	2	sw.	

Climatological Data for July, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	76.7	+ 2.9	103	2	48	28	39	0.90	—3.07	0.60	0	5	23	6	2	nw.	S. R. Brown
Albia	Monroe	959	27	75.8	+ 1.3	101	2	47	28	37	1.80	—2.34	0.87	0	7	20	9	2	nw.	O. E. McBride
Atlantic	Cass	1,164	34	76.0	+ 1.8	101	1	45	28	35	2.32	—1.22	1.26	0	9	22	6	3	n.	Mrs. Martha E. Reynolds
Bonaparte	Van Buren	563	34	74.0	— 0.4	98	2	49	28	35	4.32	+0.46	3.35	0	5	21	10	0	sw.	B. R. Vale
Burlington	Des Moines	544	29	76.7	+ 0.7	97	1†	52	31	34	4.29	+0.88	1.84	0	10	26	4	1	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	75.1	+ 0.2	98	2	49	28†	31	4.88	+0.95	1.77	0	9	18	10	3	sw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	74.4	+ 1.1	100	2	46	28	34	3.16	—1.15	2.20	0	3	21	8	2	sw.	C. C. Burr
Clarinda	Page	1,009	35	77.0	+ 1.5	104	1	49	31	40	1.92	—2.41	0.71	0	8	21	9	1	sw.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	73.5	— 1.5	95	3	48	23	33	1.53	—2.04	1.20	0	6	15	16	0	sw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	75.1	+ 1.0	101	1	43	28	38	1.35	—2.78	0.75	0	4	26	5	0	sw.	Jerome Smith
Corydon	Wayne	1,101	32	75.6	+ 1.0	99	2	47	28	34	1.34	—2.47	0.92	0	5	12	18	1	nw.	A. T. Gallagher
Creston	Union	1,312	20	76.0	+ 2.6	100	1	48	31	36	0.97	—3.08	0.55	0	6	24	6	1	sw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26	------	------	------	------	------	------	------	1.97	—2.71	0.78	0	5	20	7	4	nw.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	74.6	+ 1.8	100	1	43	28	39	0.85	—2.81	0.29	0	6	29	1	1	nw.	Geo. Phillips
Fairfield	Jefferson	780	41	74.5	+ 0.1	99	2	46	28	35	3.37	—0.45	1.90	0	9	19	8	4	n.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	77.3	+ 2.0	104	1	48	28	36	1.85	—1.75	0.59	0	7	16	13	2	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	75.6	+ 0.8	103	1	49	28	40	1.23	—2.56	0.95	0	7	21	10	0	sw.	Seth F. Shenton
Keokuk	Lee	614	54	76.6	— 0.3	100	2	51	31	33	3.90	+0.05	2.72	0	10	12	13	6	nw.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	74.3	— 0.4	99	2	47	28	33	3.19	—0.80	1.95	0	5	19	11	1	s.	J. H. Landes
Knoxville	Marion	920	30	75.1	+ 0.6	100	2	48	23	36	4.30	+0.33	3.29	0	5	17	12	2	nw.	W. J. Casey.
Lacona	Warren	824	26	------	------	------	------	------	------	------	1.01	—2.77	0.52	0	7	12	14	5	------	J. B. Alter
Lamoni	Decatur	1,123	18	75.9	+ 2.0	101	8	47	28†	35	1.41	—2.53	0.63	0	5	23	5	3	sw.	Roy L. Roberts
Lenox	Taylor	1,250	30	76.2	+ 1.1	101	1	47	31	39	1.23	—2.98	0.73	0	6	22	8	1	s.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	75.0	+ 0.7	100	12	47	31	35	1.74	—2.68	0.88	0	6	24	4	3	sw.	Alex Maxwell
Mt. Pleasant	Henry	729	44	75.6	— 0.1	99	2	50	28	34	4.00	+0.31	1.40	0	8	11	20	0	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	74.5[a]	+ 0.2	101[a]	1	44[a]	28	37[a]	1.57	------	0.80	0	5	26	3	2	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	74.2	+ 0.5	99	2	48	28†	35	2.75	—0.97	1.57	0	10	14	16	1	sw.	Roy R. Robinson
Ottumwa	Wapello	649	30	77.6	------	101	2†	50	28†	39	2.12	—1.44	1.32	0	5	21	9	1	sw.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	------	------	------	------	------	------	------	------	1.40	------	0.60	0	4	15	15	1	e.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	74.6	+ 0.5	102	2	48	28	37	4.18	+0.33	2.33	0	10	19	7	5	sw.	W. E. Utterback
Stockport	Van Buren	747	23	74.0	+ 0.2	100	2	48	28†	34	4.50	—0.09	2.92	0	6	22	7	2	sw.	C. L. Beswick
Thurman	Fremont	975	28	77.8	+ 2.2	103	1	49	28	36	2.71	—1.46	0.82	0	8	11	19	1	nw.	C. R. Paul
Tingley	Ringgold	1,275	----	75.1	------	99	1	48	29†	36	1.23	------	0.41	0	7	23	6	2	se.	James A. Verploegh
Washington	Washington	769	43	74.8	+ 0.3	98	3	49	28†	32	3.64	+0.30	1.92	0	6	23	1	7	ne.	D. D. Sherman
Wescott (near)	Lee	523	3	75.8	------	99	2	49	23†	33	4.98	------	2.00	0	6	25	5	1	sw.	Lester J. Larson
Winterset	Madison	1,129	34	76.3	+ 1.4	102	1	46	28	38	0.86	—3.54	0.44	0	6	25	5	1	sw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	78.0	+ 1.3	104	1	54	31	33	0.45	—3.88	0.12	0	8	14	14	3	n.	U. S. Weather Bureau
Means and extremes	----------	------	----	75.6	+ 1.0	104	1	43	28	40	2.41	—1.49	3.35	0	7	20	9	2	sw.	
State means and extremes	----------	------	----	74.1	+ 0.3	105	1	40	22	46	2.66	—1.19	4.25	0	8	19	10	2	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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	29.97	30.20	23	29.75	15	82	53	64	36	23	3,691	5.0	20	nw.	13	76	+ 1
Davenport	29.94	30.19	23	29.74	15	76	53	57	33	†23	4,190	5.6	28	nw.	12	69	— 6
Des Moines	29.94	30.19	22	29.70	6	78	52	53	32	1	4,521	6.1	26	ne.	3	82	+ 9
Dubuque	29.92	30.19	23	29.68	3	79	59	62	36	23	3,848	5.2	32	sw.	3	66	— 4
Keokuk	29.96	30.22	23	29.81	20	76	55	60	35	18	4,334	5.8	35	n.	6	81	+ 2
Sioux City	29.96	30.24	22	29.73	5	76	46	44	25	†16	7,117	9.6	52	nw.	13	80	+ 9
Omaha, Neb.	29.95	30.21	22	29.72	6	71	46	46	21	1	5,136	6.9	44	n.	13	84	+10
Means and extremes	29.95	------	----	------	----	79	52	55	----	----	------	6.3	----	------	----	77	+ 3
	----	30.24	22	29.68	3	--	--	--	21	1	------	----	52	nw.	13	----	----
Normals and records	29.95	------	7th	------	4th	79	--	57	----	25th	------	6.7	----	------	13th	74	----
	------	30.47	1892	§29.37	1905	--	--	--	¶13	1894	------	----	‖64	ne.	1905	----	----

*Davenport. §Charles City. ¶Des Moines. ‖Omaha. ‡Local mean time. †And other dates.

PRECIPITATION

The mean precipitation for the State, as shown by the records of 112 stations, was 2.66 inches, or 1.19 inches less than the normal. By divisions, the means were as follows: Northern, 2.64 inches, or 1.15 inches less than the normal; Central, 2.94 inches, or 0.91 inch less than the normal; Southern, 2.41 inches, or 1.49 inches less than the normal. The greatest amount, 7.93 inches occurred at Dubuque, and the least, 0.80 inch, occurred at Sanborn. The greatest amount in 24 consecutive hours, 4.25 inches, occurred at Fort Dodge on the 9th.

MISCELLANEOUS PHENOMENA

Aurora: 14th.

Fog: 7th, 8th, 13th, 26th, 30th.

Hail: 3d, 6th, 8th, 12th, 13th, 14th, 15th, 19th, 24th, 25th, 26th, 28th, 30th.

Halos: 9th, 10th, 12th.

Rainbows: 5th, 15th, 16th, 19th, 30th, 31st.

Thunderstorms: All dates except 1st, 17th, 21st, 22d, 28th.

Winds (damaging)*:* 2d, 3d, 5th, 8th, 13th, 14th.

Daily Precipitation for July, 1925

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						.96	.26		.70									.12								.60			.55		3.19
Allison (near)	Cedar			.07			.17			1.50					.11		.08		.05						.09			.03			.01	2.11
Alta	Raccoon				.06		.24	.25		.32					.06										.15			.06		.80	.10	2.04
Alton	Floyd		T.	T.			.20	.41		.03		.01			.86				T.						.70		.20			.05	.02	2.48
Belmond	Iowa						.33	.25	T.	.61					.08		.44		.10								.07	.08		.12	T.	2.08
Britt	Iowa			T.			.10	.05		.62					.40				.05											.09	T.	1.31
Charles City***	Cedar			T.			1.03	.01	.11	.19				.40	.01				.21						.33		.42			.15	.09	.04	2.99
Cherokee	Little Sioux			T.				.61		1.10		.15			.08				T.	T.					.33			.06		T.	.11	.03	2.47
Decorah	Mississippi						.31	.02		.30			.01		.40	.30				.03	.10					.43		.44			.03	.50	2.87
Dubuque***	Mississippi			3.46	.01		.37			.97			.09	.03	.36	T.	.01		.01	.43					.28		.07		.11	1.54	.19	7.93
Estherville	Des Moines		.38	T.			.26	.03	.08	.20																		.40			.05	.10	1.50
Fayette	Mississippi						.42			.58			.27	.48	.08		.04		.05						.62		T.	.25		.75	.06	.35	3.95
Forest City	Cedar			.13	.03		.87	.10		.30					.20		.02			.18								.08			.09	T.	2.00
Hampton	Cedar				.01		.18	.07		1.25					.05		.01		.16	.09								.05		T.	T.		1.87
Humboldt	Des Moines						.02	.42		1.16					.98				T.						T.	.28		.18			T.	.12	3.16
Independence	Wapsipinicon				.75		.48	T.		.18					.11					.11					.28			.02			.04	.36	2.33
Inwood	Big Sioux		.82	.19	T.		.01	.47		.02					1.55						.02				.37					T.	.02		3.47
Lansing	Mississippi						.21	3.80		.67					.51		T.	.05		.04	.09				T.	.26		.23			.12	1.50	7.48
Le Mars	Floyd						.04			.25		.66			1.02						T.				.58					T.	.41		2.96
Mason City	Cedar		T.				.51	T.		.33				.48					.22						.09		.22			.20			2.05
Milford (near)	Little Sioux		.24	T.			T.	T.	T.	.52					T.				T.	T.					T.			1.35			.20		2.31
New Hampton	Wapsipinicon						1.62	.63	T.	.25				.03	.15				.23						.39			.42		.05	T.	T.	3.77
Nora Springs	Cedar		.03				1.31		.21	.28			.03	.35					.26	.03					.07		.23			.20	.18	.05	3.20
Northwood	Cedar		.12	T.			1.40			.25			.03		.30										.03						.28		2.41
Oelwein	Wapsipinicon						1.60			.65			.20	.30					.20						.45			.40			.20	.30	4.30
Osage	Cedar		.20				.43			.62					.32				.35						.25	T.			.02		.04	.02	2.25
Pocahontas	Des Moines			.02			.08	.12	T.	.35					.05										.07			.10		.82	.03	.01	1.65
Postville	Mississippi						.75			.22			.80	.28	.37				.10	.78					.65			.22	T.		.69	.71	5.57
Rock Rapids	Big Sioux		.71	.23					.26						.37				T.						.24						.11		1.92
Sanborn	Floyd		.23							.27					.06										.18							.06	0.80
Sheldon	Floyd		.24	.01			.16	.02	.09	.04					.06				T.	T.	.02				.29		.01	.02			T.	.01	0.90
Sioux Center	Floyd		.33	T.			.21	.27		.06		.04			.95				T.						1.99		.35				.11		4.24
Spencer	Little Sioux		.20				.15		.02	.91					.02										.41			.04					1.75
Storm Lake	Raccoon			T.			.14	.24	T.	.13					.02				T.						.05			.01		.27	.25	.01	1.12
Washta	Little Sioux			T.			.01	.40	.75						.32										.25					.01	.27	T.	2.01
Waterloo	Cedar				.63		.70	.07		.55					.05		T.			.05								.05			T.	.17	2.27
Waverly	Cedar																																
West Bend	Des Moines			.01			.16	.25		.27					.69				.10		T.				.06			.17		.06	.26	.02	2.05
Central Division																																	
Ames	Skunk			2.07	.03		.02			.02			T.		3.01		T.		T.									.37			T.		5.52
Audubon	Nishnabotna			.35											.60											T.				.12	T.	.01	1.08
Baxter	Skunk			.60			1.35	.04		T.					.95	.35			.04								.25				T.		3.58
Belle Plaine	Iowa			.39	.14		.40								.40		.19		.04	.09						T.		.07			.07	.01	1.80
Boone	Des Moines				2.10			.08		.08					.97					T.								.09		T.			3.32
Carroll	Raccoon				1.25			.35		1.19					.35													.03		T.	.02		3.19
Cedar Rapids	Cedar				1.02			.20							.12					.11								1.23				.40	3.08
Clinton	Mississippi			.13			1.55			T.			.13		.14				T.									.04			.44		2.43
Davenport***	Mississippi			.03	.05		1.67	T.		.09			.65		.07				.04						.50	T.	.09	.07			.08	T.	3.34
Davenport (No. 2)	Mississippi				.03		1.68	.24		.06			.77		.08				.02	.02					.42	.05		.20			.02		3.59
Denison	Missouri			.21	.02		.02		.05	1.42					.65						T.					.02				.06		T.	2.45
Des Moines***	Des Moines			.06			1.69			T.					.46				T.											T.			2.21
Fairport	Mississippi				.16			1.15					T.		.15					.04					.45			.70			.52	.03	3.20
Fort Dodge	Des Moines				.04			.37		4.25					1.30					.03						.06		.38			.01	.10	6.54
Grinnell	Iowa			.38	.08		1.85	.15							.66		2.87		.10	.74								.67			.02	.04	7.56
Grundy Center	Cedar			2.11	.31		.45			.14					1.09		T.		T.											.31	T.		4.41
Guthrie Center	Raccoon			.56						.27					.27																T.		1.10
Harlan	Nishnabotna			.10				.32		.15					.70													.50					1.42
Iowa City	Iowa				.07			.84						T.	1.36	.01	.01		.17							.10				.05			1.42
Iowa Falls	Iowa				.11		.04	.18		.51					.35		.17		.24	.03					.58		.26					.33	3.03
Jefferson	Raccoon			.52			.02	T.		.15				T.	.16				T.								.34				.03	.03	2.05
Kalo	Des Moines			T.					3.47						.90													T.		T.			0.85
Le Claire	Mississippi							.92			.01	.03	.05	.51	T.	.06				.03								.50					4.87
Little Sioux	Little Sioux			.10		T.	T.	.16	1.48	1.22					.23						T.					T.		.05				.32	1.98
Logan	Missouri			.65						.85					.27											.04	T.			.16		T.	3.39
Maquoketa	Maquoketa			.03	.30		1.08	.04		.39			1.28		.22		.11		T.	.01					.15			.09		T.	.13	.16	1.85
Marshalltown	Iowa				.57		.16	.24		T.					.50		.37			.30	T.						T.	.63			T.	T.	3.99
Monroe	Des Moines			.04	.21		3.46	T.							.29				T.							T.	.06		T.	.05		2.77
Muscatine	Mississippi				.10	.01		1.47						.01						.03								.27			.25	2.14
Olin	Wapsipinicon				.45		.25			T.					.10				.03						.99			.30		.01	.10		4.11
Onawa	Missouri						T.	.18	.50	1.07					.29											T.				.14			2.23
Perry	Raccoon			1.09			.10			.11					.03				T.											T.	T.	T.	2.18
Rockwell City	Raccoon																																1.33
Sac City	Raccoon						.21	.03	.36	1.30					T.				T.									.30		.16	.11	.05	2.52
Sioux City***	Missouri			T.			T.	T.	.64					.56					T.	T.				.15		T.		T.	.07	T.	.01	1.43
Tipton	Cedar			.70	.50		.75	.11							.80				.06	.02	T.				.65	T.		.55			.23	T.	4.37
Toledo	Iowa			1.00			.56						.12		.42		.06		.02	.08	T.							.12					2.38
Van Meter	Raccoon				.17		.14	1.00		.03					.35																		1.69
Waukee	Raccoon			.22	.03	.01	1.00	T.		T.					.20				T.											T.	T.	T.	1.46
Webster City	Des Moines			.08				.20		1.40					.82				.05							T.	.20				.18	.07	3.00
Williamsburg	Iowa			.78	.06		1.06								.04		.04		.06	.11											.15	.01	2.91

Daily Precipitation for July, 1925—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				.10			.02		.10					.60						T.					.01				.08			0.90
Albia|||	Des Moines				.22			.67							.79	.08				T.	T.	.02				.01					.01	T.	1.80
Atlantic|||	Nishnabotna				1.26		.08	.05		.30					.53	.02						.02			T.					.01	.05		2.32
Bonaparte	Des Moines				T.			3.35							.26				T.	.30	T.					.31		T.	T.	.10	4.32
Burlington|||	Mississippi				1.70	.14		.95			.01					.04				.27	T.					.86		.02			.04	.26	4.29
Centerville	Chariton				.54			1.77	1.07	T.				.50	.48				T.	.02	T.					.42				.06	.02		4.88
Chariton (near)	Chariton				.48		T.	2.20							.48				T.		T.				T.			T.	T.			3.16
Clarinda|||	Nodaway				.15		.01			.40					.71						.02	.18				.02				.43		1.92
Columbus Jct.	Iowa						.93	.27												.14										.08	.09	1.53
Corning	Nodaway			.17						.40					.75															.03		T.	1.35
Corydon	Chariton				.13			.21	T.					.21	.71															.08	T.		1.34
Creston|||	Missouri				.12		.08	.02		.14					.55						T.									T.	.06		0.97
Cumberland (near)	Nodaway			.35		.11	T.	.06		.67					.78				T.		T.				T.					T.		T.	1.97
Earlham	Des Moines			.10		.29				.10					.25				T.						.08				.03				0.85
Fairfield	Skunk			.07	.01			1.90							.55				.08	.32					.03		.28		T.	.13		3.37
Glenwood	Missouri			.49				.33		.09					.59						.06									.17	.12		1.85
Indianola	Des Moines			T.	.05		.13	T.						.30	.65				T.		.03					.04				.03	T.		1.23
Keokuk***	Mississippi			.09	.05		2.04	.68		T.					.01				.40	.02	T.					T.	T.	.38		.04	.19		3.90
Keosauqua	Des Moines				.08			1.95							.90				T.	.10	T.					T.				T.	.16		3.19
Knoxville	Des Moines				.01		.16	3.29							.75				T.											T.	.06		4.30
Lacona	Des Moines				.02		.08	.25							.52						.02					.08				.03			1.01
Lamoni|||	Grand				.45										.63					.01		.15									.17		1.41
Lenox	Missouri			.02	.02					.23					.73						.10									.13			1.23
Mt. Ayr	Grand				.3'	T.	T.			.03					.88				T.		.31									.16	.05		1.74
Mt. Pleasant	Skunk				T.			1.40							.55		.02			.33	T.				.69	.02		.46		T.		.73	4.00
Oakland	Nishnabotna			.11					.38	.24				.80																			1.57
Oskaloosa	Des Moines				.05		1.12	.45							.45		.07		.04	.03	T.							.42			.09	.03	2.75
Ottumwa	Des Moines				.06			1.32							.48		T.		T.	.03	T.					T.		.23		T.	T.		2.12
Red Oak (near)	Missouri								.10	.40					.60				T.							T.					.30	T.	1.40
Sigourney	Skunk				.08		.88	1.45		T.					.49		.06		.16	.48					T.	T.		.39		T.	.10	.09	4.18
Stockport	Skunk				T.			2.92							.44					.41	T.					.16		.31		T.	.26		4.50
Thurman	Missouri			.26	.0'		T.			.34					.66						.10				T.	.82	.22			.27	T.	T.	2.71
Tingley	Platt			.10	.27	T.	.24			.06					.41				T.		.05									.10	T.		1.23
Washington	Skunk			T.			1.92									T.			.36						.30	.30					.18	.58	3.64
Wescott (near)	Mississippi				1.80			2.00							T.					.25						.33		.30			.30		4.98
Winterset	Des Moines			.02		.18	.17			.03					.44				T.		.02					T.				T.	T.		0.86
Omaha, Neb.***	Missouri			.09		T.		.02	.10	.02				.10							.01						.03			.08	T.	T.	0.45

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.

RIVERS

There was considerable fluctuation on the Mississippi River during the first half of the month and a general falling tendency thereafter, the highest stages occurring, except in the upper reaches, on the first and the lowest stages on the last. On the Missouri there was considerable slight fluctuation till about the middle of the third week and a falling tendency during the rest of the month. On the interior rivers there was a moderate rise at the beginning of the 2d week and a gradual fall till the end of the month. The lowest stage for the month occurred at all interior river stations on the last day. None of the small streams were out of banks and at Washta, on the Little Sioux River, the lowest stage ever observed occurred.

TORNADOES IN IOWA, JUNE, 1925

Arthur H. Christensen, Observer

(Weather Bureau Office, Des Moines, Iowa, July 28, 1925)

June, 1925, was marked by an unusually large number of tornadoes in Iowa, some of which caused great damage to property, amounting in the aggregate to nearly two million dollars. Four persons were killed and one died of injuries received, and over fifty persons were more or less seriously injured. While complete information is not available on some of the tornadoes, especially the smaller ones (some of which may have been missed entirely), the following descriptions, arranged in chronological order have been prepared from the available data, and it is believed cover those which caused appreciable destruction. The tornadoes of greatest destruction occurred on the 2d, 3d and 11th.

Tornado Near Milford

On June 1, at a late hour in the afternoon a small tornado occurred west of Milford, Iowa, in Dickinson county. The path was short and about 150 feet in width. It moved from the southwest to the northeast, and caused very little damage. No persons were killed and none injured.

Tornado at Glenwood and Sliver City

The tornado which struck Glenwood (Mills county) at 4 p. m., and Silver City at 5 p. m., on June 2, originated in Nebraska. The following is from the Omaha Bee:

"The tornado was first seen near Douglas, Otoe County, and swept northward between Avoca and Weeping Water, passed a little to the north of Murray, went directly over Plattsmouth, and struck with all its violence on the Iowa side of the river, directly opposite Plattsmouth. Plattsmouth citizens saw the twisting funnel pass directly over the main part of the town, its tail whipping about high in the air. The air was filled with flying boards and straw. As it approached the Missouri river, a half mile from the main part of Plattsmouth, the cloud dipped suddenly to earth and the tail struck the water. According to John Richardson, ferryman, the tail of the cloud struck in the middle of the channel, and a column of water leaped 40 feet in the air to meet it. The whirling column swept across the river and then hugged the land as it dashed eastward in the direction of Glenwood, Iowa."

Daily Maximum and Minimum Temperature for the Month of July, 1925

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
Northern Division																																	
Algona	Maximum	100	90	89	82	89	93	89	88	87	87	99	98	93	95	99	90	82	77	85	88	72	80	85	91	81	89	73	75	77	70	76	86.1
	Minimum	62	69	70	60	58	69	69	73	60	59	73	72	70	66	74	60	54	55	55	60	55	49	55	63	59	59	60	47	52	55	50	61.0
Alta	Maximum	98	96	83	83	91	94	92	92	85	91	97	97	95	95	95	82	84	88	85	86	75	82	84	87	85	88	76	74	78	66	75	86.4
	Minimum	64	69	67	59	60	72	69	69	59	59	73	74	73	66	68	59	57	60	64	62	54	50	55	62	60	62	57	47	57	52	51	61.6
Alton	Maximum	100	94	84	84	91	96	89	93	84	94	101	101	99	95	99	88	82	87	84	87	78	81	83	87	82	90	83	74	79	72	78	87.7
	Minimum	67	63	70	54	60	72	65	69	57	58	67	71	69	64	63	60	53	59	65	62	54	43	56	63	60	63	56	44	52	52	54	60.2
Belmond	Maximum	100	93	92	86	87	88	89	89	83	86	97	102	92	97	93	85	82	79	87	90	81	82	82	94	81	82	76	77	81	72	75	86.5
	Minimum	64	70	71	59	57	71	70	73	63	56	73	74	70	67	63	59	55	54	62	58	53	52	49	64	59	56	60	46	50	53	47	60.6
Charles City	Maximum	95	88	88	80	86	89	85	85	79	84	95	93	92	90	91	79	78	80	80	83	75	75	81	88	75	81	69	71	74	69	70	82.2
	Minimum	63	69	69	61	57	72	70	70	60	56	72	72	68	68	66	62	57	54	60	57	54	52	49	63	60	53	51	47	48	52	49	60.0
Decorah	Maximum	93	88	88	82	87	87	83	82	82	85	98	95	94	90	90	85	88	79	80	82	81	77	80	87	77	82	73	72	76	71	68	83.3
	Minimum	57	65	65	60	51	68	66	65	65	49	65	68	63	61	62	60	52	58	60	49	51	49	42	58	57	59	56	45	43	49	48	57.1
Dubuque	Maximum	95	88	96	83	87	83	83	85	83	84	95	92	84	87	93	78	78	80	82	84	77	74	80	84	74	80	73	74	76	72	71	82.4
	Minimum	59	72	64	67	60	72	70	69	66	58	67	73	68	68	71	68	60	60	64	59	62	56	54	63	62	56	56	52	53	55	55	62.5
Forest City	Maximum	95	85	83	79	86	90	85	84	82	85	96	93	90	92	93	85	78	79	81	83	75	76	81	88	82	85	78	73	79	70	73	83.4
	Minimum	62	66	66	57	57	67	68	72	61	57	69	72	69	64	67	58	55	53	61	56	54	49	51	63	57	56	61	46	47	52	47	59.3
Independence	Maximum	95	97	93	90	83	83	85	91	88	82	94	91	90	89	93	92	80	81	81	84	85	78	81	89	87	81	80	74	78	73	72	85.2
	Minimum	58	70	68	64	58	67	67	67	69	54	69	70	64	68	69	64	58	54	61	56	57	56	48	68	60	57	57	59	48	52	58	61.1
Inwood	Maximum	100	83	79	83	90	93	88	86	86	97	100	100	101	96	100	83	83	88	85	86	81	81	83	88	80	90	79	79	83	71	83	87.3
	Minimum	68	64	68	55	61	69	62	70	54	54	65	71	71	61	67	55	52	60	59	60	51	44	55	62	57	61	53	44	50	50	53	58.9
Mason City	Maximum	95	88	84	80	88	89	86	83	82	84	98	93	94	90	93	84	77	79	80	82	73	76	82	88	80	86	73	72	77	70	73	83.2
	Minimum	62	66	66	60	52	69	69	71	63	52	70	69	66	66	64	59	54	49	62	53	53	48	45	61	58	50	60	45	43	51	46	58.2
Milford (near)	Maximum	96	87	80	79	88	92	88	92	81	88	97	98	96	93	98	81	77	80	82	85	73	79	85	88	80	89	71	73	77	70	77	84.5
	Minimum	61	62	67	52	54	66	62	71	53	53	67	69	67	62	59	53	48	54	61	55	51	40	52	61	54	57	54	42	45	50	50	56.5
New Hampton	Maximum	94	91	90	81	88	78	83	87	83	84	96	99	90	90	92	81	79	81	80	85	77	83	85	87	75	82	77	72	74	71	70	83.2
	Minimum	58	67	67	61	56	70	69	----	66	54	68	68	64	67	66	59	54	53	59	54	53	47	50	60	58	53	58	46	45	51	48	58.2[a]
Northwood	Maximum	90	85	----	79	85	87	85	84	78	83	94	92	91	91	92	83	78	78	----	81	74	----	83	87	77	83	----	73	76	67	70	82.4[d]
	Minimum	----	65	----	57	55	63	65	68	62	54	68	70	67	65	67	60	54	53	56	----	54	----	51	64	57	53	----	47	47	51	47	58.6[e]
Pocahontas	Maximum	101	96	88	84	91	92	91	90	85	91	98	100	96	97	99	90	83	84	87	89	79	81	86	92	82	90	79	77	80	71	77	87.9
	Minimum	61	68	62	56	56	71	69	74	61	65	71	73	70	65	63	60	54	57	62	60	54	47	50	63	60	56	60	45	51	53	50	60.2
Postville	Maximum	86	84	87	78	83	83	77	80	79	79	91	88	83	84	86	83	73	77	79	80	73	71	76	81	80	76	70	67	70	68	67	78.5
	Minimum	58	64	63	61	51	67	66	69	66	57	65	64	63	63	67	59	54	51	59	51	52	49	57	60	58	58	55	45	54	54	48	58.3
Central Division																																	
Belle Plaine	Maximum	100	94	100	86	90	90	82	92	87	89	100	97	94	90	96	88	82	87	87	87	81	79	86	94	89	85	78	76	79	74	75	87.5
	Minimum	62	69	68	62	69	70	68	70	71	53	70	71	69	68	68	63	56	50	62	58	53	47	55	63	62	63	54	44	53	54	53	61.2
Boone	Maximum	103	101	95	83	89	89	92	86	90	99	98	95	92	95	95	84	80	86	86	90	78	80	85	94	89	88	76	77	75	75	74	87.5
	Minimum	63	66	66	61	57	76	66	73	69	54	70	69	66	66	67	63	51	51	64	57	53	46	45	64	62	55	61	42	54	51	59	60.2
Carroll	Maximum	101	99	99	82	87	90	90	93	85	90	95	98	97	93	95	96	83	84	87	92	81	84	83	95	84	89	79	79	73	73	73	87.6
	Minimum	64	68	68	60	58	74	68	69	64	57	73	70	70	67	67	59	55	55	63	63	55	49	61	64	62	58	61	45	57	52	50	61.4
Cedar Rapids	Maximum	103	95	101	88	92	92	89	93	94	90	102	99	99	95	101	80	89	89	91	91	86	80	90	94	84	89	81	80	81	78	79	90.3
	Minimum	60	68	66	65	58	70	66	68	71	58	65	72	64	67	65	67	56	50	61	54	55	52	44	58	61	50	59	47	44	51	51	59.4
Davenport	Maximum	93	94	98	88	90	94	85	93	86	88	99	96	90	83	95	82	89	83	88	86	81	76	82	86	80	80	78	76	77	77	74	85.8
	Minimum	61	75	71	70	65	69	70	69	72	66	72	69	70	68	70	69	61	62	66	66	63	57	56	65	63	60	57	52	55	57	54	64.5
Des Moines	Maximum	101	101	96	85	90	93	86	92	84	90	101	100	96	91	97	85	80	85	88	87	82	79	82	97	84	90	77	77	69	75	72	87.6
	Minimum	65	71	69	68	67	71	71	74	71	62	74	72	76	69	73	68	62	59	66	66	61	55	55	65	67	61	60	53	57	54	52	65.0
Ft. Dodge	Maximum	101	95	91	84	89	92	88	92	85	87	97	97	95	92	94	86	79	83	84	87	77	79	84	92	82	86	78	76	79	71	73	86.3
	Minimum	62	68	69	57	57	74	65	72	61	53	70	71	68	63	65	68	55	55	62	59	52	46	49	63	60	56	60	45	52	52	47	59.9
Grinnell	Maximum	103	104	99	85	90	92	96	94	96	89	100	100	94	93	95	95	84	85	86	85	85	79	84	94	95	85	94	74	75	75	74	89.6
	Minimum	67	71	66	66	63	70	67	71	71	59	72	71	71	67	69	63	59	57	61	62	57	52	53	62	63	57	59	49	55	52	50	62.2
Guthrie Center	Maximum	100	98	95	83	83	89	89	94	87	89	98	97	97	91	96	89	83	86	91	91	80	80	85	97	90	88	73	76	70	74	73	87.5
	Minimum	64	67	67	62	60	65	68	73	67	55	70	70	72	65	61	61	56	58	67	64	56	48	53	65	64	59	62	46	56	54	46	61.3
Iowa City	Maximum	97	91	97	86	90	93	82	93	87	88	98	98	90	89	94	87	81	80	87	85	80	77	83	89	79	82	77	75	75	75	72	85.7
	Minimum	60	69	74	68	60	72	68	70	74	55	68	73	68	67	68	68	58	55	63	61	57	53	48	60	64	56	62	47	48	52	53	61.9
Iowa Falls	Maximum	96	92	90	80	84	85	86	87	86	84	94	95	89	88	90	88	77	79	80	83	80	75	80	89	85	81	79	72	68	69	69	83.2
	Minimum	63	69	70	63	54	74	70	72	67	52	71	72	66	66	64	60	55	50	61	57	53	49	46	64	61	52	61	46	50	52	48	59.9
Little Sioux	Maximum	102	100	92	88	92	95	95	95	87	92	97	98	98	94	98	90	88	88	89	86	83	80	84	97	89	91	85	82	72	75	81	89.8
	Minimum	68	71	66	59	60	70	68	65	64	61	72	72	72	63	66	57	54	64	62	53	45	53	66	63	60	58	44	53	51	47	61.0
Marshalltown	Maximum	105	99	98	85	91	85	87	94	88	90	102	99	96	94	96	90	80	85	86	88	80	80	80	95	86	85	82	75	77	75	73	87.9
	Minimum	65	72	69	66	61	75	68	73	71	57	74	73	72	69	74	64	59	55	62	61	58	52	52	66	68	58	63	49	57	55	51	63.5
Olin	Maximum	96	92	99	88	88	90	84	90	87	86	99	98	89	92	97	94	82	82	89	89	84	80	82	80	78	81	79	79	80	77	75	86.6
	Minimum	54	68	68	66	59	72	68	69	71	52	63	70	63	69	66	65	54	53	62	56	55	52	44	56	61	52	60	44	44	52	51	59.3
Sioux City	Maximum	99	95	82	86	91	96	91	93	85	93	97	95	98	96	100	84	84	89	85	86	78	77	82	90	80	90	75	75	75	68	80	86.9
	Minimum	69	69	70	60	66	75	70	70	61	63	75	76	66	68	68	63	56	64	70	66	57	50	62	68	65	66	59	50	59	55	53	64.2
Southern Division																																	
Albia	Maximum	100	101	97	91	91	93	89	97	90	92	99	100	97	90	96	86	83	86	92	83	84	82	86	95	89	88	84	80	69	79	75	89.2
	Minimum	63	69	70	66	65	72	68	70	73	60	71	68	71	67	67	65	58	55	63	64	55	50	57	62	64	59	63	47	53	53	49	62.5
Atlantic	Maximum	101	99	95	84	89	93	93	97	87	90	97	97	98	90	95	88	83	87	87	86	81	80	84	95	87	89	84	78	88	79	86	89.3
	Minimum	66	67	69	63	61	74	71	69	70	59	72	70	71	66	71	63	55	61	65	65	57	49	56	67	65	61	63	45	53	49	51	62.7
Burlington	Maximum	97	97	97	89	95	95	96	97	87	91	97	97	94	87	94	88	85	87	90	85	81	77	85	93	82	84	79	76	75	77	74	87.9
	Minimum	63	74	75	68	66	75	69	73	76	67	71	73	71	71	68	70	62	60	64	69	64	57	56	64	68	60	64	54	54	59	52	65.5
Columbus Jct.	Maximum	93	93	95	85	89	92	81	90	85	84	94	94	88	83	92	86	79	83	86	82	80	75	81	89	80	79	77	75	74	75	71	84.2
	Minimum	64	70	74	69	63	69	68	71	74	61	68	73	68	70	68	68	59	58	62	62	61	55	48	62	64	56	62	49	49	50	52	62.8
Corning	Maximum	101	98	94	85	90	92	94	98	89	92	97	95	98	89	94	89	88	87	91	86	85	81	83	90	92	88	81	69	81	73	89.3
	Minimum	65	69	69	65	63	72	68	70	68	56	68	68	68	66	61	58	52	60	75	63	54	48	48	65	66	61	59	43	47	52	46	60.9
Corydon	Maximum	96	99	94	86	89	93	92	97	88	91	98	98	98	86	93	87	81	87	91	83	85	78	83	97	88	88	82	79	71	78	75	88.0
	Minimum	64	73	70	67	67	73	69	72	73	59	70	69	72	67	69	66	56	58	66	64	56	50	56	63	66	59	63	47	52	55	48	63.2
Fairfield	Maximum	95	99	97	86	92	94	87	95	87	89	96	97	94	86	94	86	83	86	90	84	79	77	83	94	83	84	78	76	74	79	73	86.9
	Minimum	62	71	70	68	62	73	66	72	73	59	67	67	69	68	67	67	59	52	63	64	59	54	48	60	65	56	63	46	51	55	49	62.1
Keokuk	Maximum	95	100	97	87	92	95	86	95	88	89	96	97	92	82	93	83	81	85	88	79	81	79	81	90	85	84	80	76	74	75	73	86.4
	Minimum	62	77	74	70	71	70	69	76	76	71	75	75	76	70	69	70	63	62	65	71	65	58	60	65	68	62	62	55	56	59	51	66.9
Lamoni	Maximum	97	97	94	87	92	94	95	101	89	95	98	99	100	89	94	85	86	89	93	79	83	79	86	95	92	91	85	80	69	77	75	89.2
	Minimum	62	72	70	61	66	71	69	72	70	61	70	70	71	66	67	61	56	57	63	65	57	51	58	62	67	61	63	47	51	53	47	62.6
Sigourney	Maximum	100	102	98	89	92	96	84	95	88	89	98	98	92	87	95	83	83	84	88	82	80	79	81	93	84	84	78	79	72	77	74	87.2
	Minimum	63	72	73	67	63	65	67	72	74	58	71	69	70	68	67	65	58	52	62	63	58	53	49	61	65	56	62	48	52	51	49	62.0
Thurman	Maximum	103	102	98	86	94	100	100	99	91	94	96	96	97	96	96	96	88	86	90	87	81	81	84	98	98	90	88	79	79	74	72	90.9
	Minimum	70	75	72	68	63	76	74	72	70	63	69	72	70	66	71	67	59	63	64	64	55	51	61	67	67	65	67	49	52	59	52	64.8
Winterset	Maximum	102	100	95	85	91	92	91	97	91	92	100	101	100	91	97	89	89	87	90	86	82	80	86	97	90	90	86	79	73	77	73	89.5
	Minimum	61	70	70	65	62	72	69	74	71	58	72	67	73	67	70	66	56	59	59	64	54	49	54	66	80	59	63	46	54	59	49	63.1
Omaha	Maximum	104	101	92	85	90	98	96	98	84	93	98	97	98	90	99	84	83	87	86	84	78	76	83	93	88	89	80	76	68	72	77	87.9
	Minimum	71	79	73	68	70	78	72	72	67	69	77	78	75	66	75	68	62	68	76	69	62	58	66	70	60	67	64	51	57	59	57	68.1

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

In Iowa the tornado traveled northeastward from its place of entrance, but it did not touch the ground until just before it reached Pacific Junction. After touching the ground for a short distance it lifted again as it passed over the town and struck again on the east side, about two miles from the town. As it lifted again a little farther on, it divided, one smaller cloud going north until it spent itself, and the other passing through the north outskirts of Glenwood and continuing on to Silver City, 7 miles northeast of Glenwood, leaving a path of destruction between the two towns. Its force was soon spent after leaving Silver City. The total distance covered in both Nebraska and Iowa was about 45 miles, and the path when it passed Glenwood was about 200 yards in width, and at Silver City was nearly one-half mile in width. It was accompanied throughout much of its distance by heavy hail and rain. Four persons were injured northeast of Glenwood; none were killed in Iowa but three were killed in Nebraska. The damage in Iowa was estimated at $50,000.

Tornado in Monona and Woodbury Counties

On the same day and nearly at the same time of day a tornado started 4 miles west of Onawa in Monona county, and traveled northeastward to Whiting, then to Ticonic, and then followed the Little Sioux valley northward to Smithland in Woodbury county, and through Oto, thence traveling more to the northeast and striking Cushing, also in Woodbury county at about 5 p. m. An observer at Grant Center in Grant township, Monona county, describes it as follows:

"When we first saw it there were two funnel shaped clouds; they would rise and lower, but one of them never seemed to reach the ground. They traveled north and east and when about one mile west of the township line seemed to rise entirely into the clouds. The clouds then moved east and when just a little east of the township line a cylindrical cloud formed and moved east to the center of the township and then north. When it reached the north side of the township the pendant took on the form of a funnel. Trees blown down were lying either to the north or west."

The length of the path was about 40 miles, and from 200 feet to a half mile in width. The rate of movement was about 40 miles per hour. It is not known whether destruction occurred along the entire path but the following points report damage: Whiting, about $75,000 damage and 2 persons injured. In the vicinity of Ticonic, $65,000 damage and one person injured. At Smithland $50,000 damage, none injured. About $200,000 damage occurred at Oto. The damage at Cushing amounted to $75,000 and one person was slightly injured. At Grant Center the damage was $16,000.

Tornado Near Red Oak

The next tornado on June 2, occurred at about 6:10 p. m. A funnel-shaped cloud first appeared slightly to the west of Red Oak, in Montgomery county, and passed a little to the north of Red Oak, then going northeast toward Wallin, the length of the path being about 11 miles. No destruction occurred in Red Oak, but most of it was in the farming section between the two towns. Five persons were injured and the total damage was probably about $100,000.

Tornado at Adair and Casey

At about 8:30 p. m. on June 2, 1925, a tornado which had traveled from Anita in Cass county struct Adair, in Adair county, and passed to the east-northeast to the town of Casey. Before reaching Adair no appreciable damage occurred, but the damage was considerable at Adair and Casey, and also on the path intervening. The length of the path was about 20 miles and the width about 40 rods. John Harris, age 75 of Adair, and his two daughters were killed, three persons were severely injured, and the damage is estimated at $100,000.

Tornado in Iowa County

On June 2, at 10:15 p. m. a small tornado developed in the northwest part of Iowa county, traveling in a northeasterly direction for a short distance. The width of the path was 20 rods and the damage was very light.

Tornado at Neola and Persia

About 5:30 p. m. on June 3, 1925, two tornadoes occurred between Neola in Pottawattamie county, and Persia in Harrison county. The first tornado was of short duration and its chief destruction was about four miles north and east of Neola where is caused severe damage to about thirty farms. The following is taken from the Neola Gazette-Reporter:

"The storms broke without much warning and followed a day whose morning was as near ideal for spring and early summer as could be desired. There had been a rather heavy blow the evening before, with a light fall of rain. Wednesday morning was fairly cool, but little wind and no dust. Toward noon the weather turned to sultry and the atmosphere seemed oppressive as the temperature rose. As early as three o'clock, clouds began to mass in the west and southwest, but there was not much indication of immediate storm or rain. At a quarter past five the wind rose and its direction changed; darkness fell and there was a steady shower, the wind lulling to zephers. Then without warning hailstones of huge proporations began to fall, crashing on roofs and windows with terrific force and sound. This lasted but a few minutes and the rain ceased. It was then that attention was drawn to the sky where seemingly to the west, a huge funnel-shaped cloud was seen to form and swirl, taking a northeasterly direction. So near to Neola the storm approached that its roar could be distinctly heard by those in the north part of town."

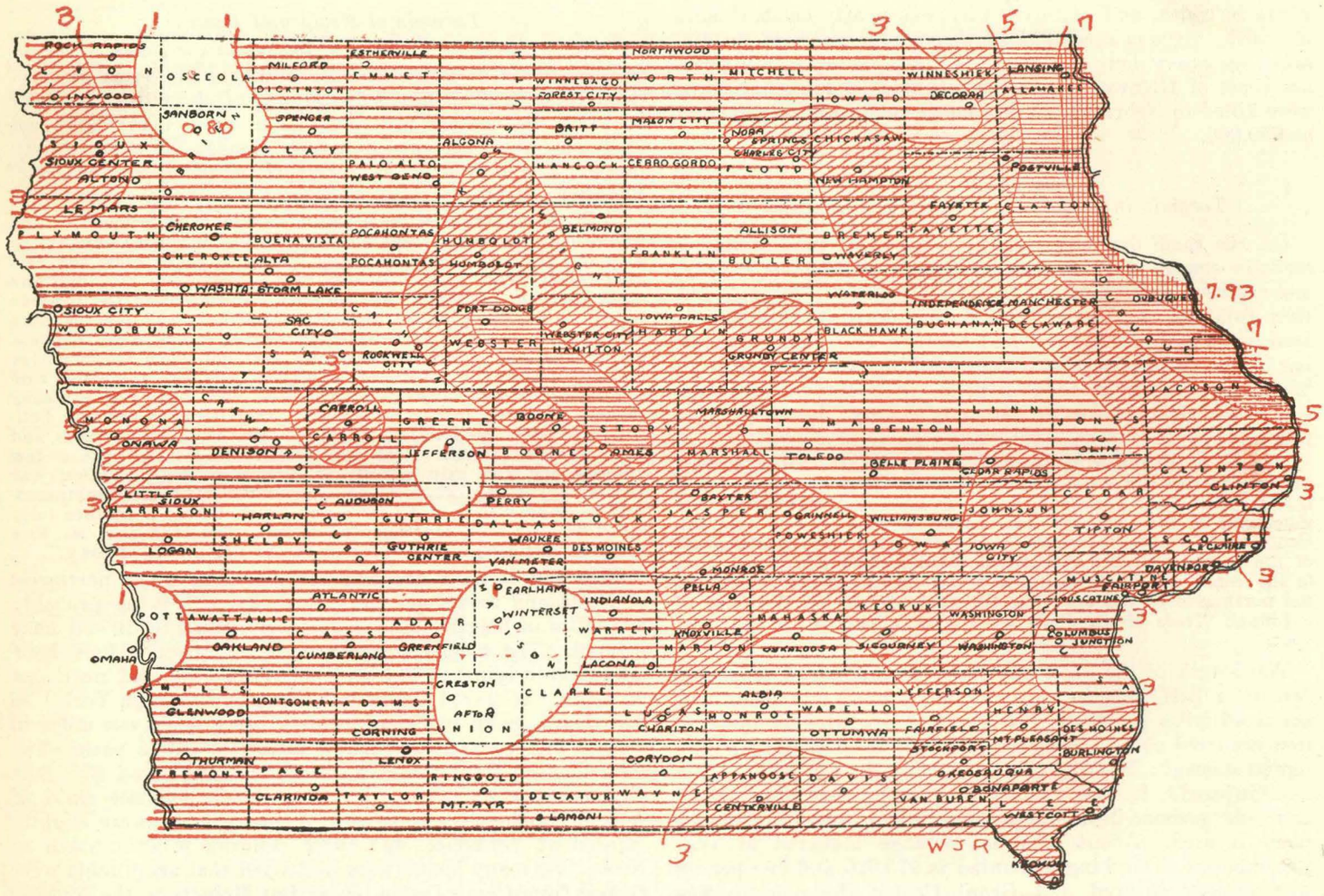
This first tornado had originated a little to the northwest of Neola and moved northeastward, its path being probably five miles in length. No persons were killed by it and none injured. The second tornado occurred about a half hour later and originated southeast of Yorkshire, and northeast of Neola. It moved almost due north and through Yorkshire and thence north to Persia its path being about ten miles in length, and caused destruction along its entire path. The total damage from these two tornadoes was about $750,000. Eighteen persons were injured at Persia and one child of Archie Hammond was killed. A few persons were slightly injured at Yorkshire, and three children injured north of Neola. So many homes were destroyed that army tents were rushed from Camp Dodge, (near Des Moines) to the stricken area between Neola and Persia where about 200 persons were homeless.

Tornado in Greene County

On June 3, 1925, at 9 p. m. a tornado struck in Greene county northwest of Jefferson, and traveled to the northeast passing two miles north of Jefferson. The tornado then divided, the south wing passing more to the east, its path being south of Dana, and disappeared a short distance southeast of Dana, while the other wing continued in a more northerly direction, passing about two miles west of Paton and on in the direction of Webster county, but evidently lost its force before reaching the county line. The length of the path was about 15 miles. One person was injured and the damage was not great, probably not exceeding $10,000.

(Continued in August Report)

TOTAL PRECIPITATION, JULY, 1925



Scale of Shades—In Inches

Less than 1	1 to 3	3 to 5	5 to 7	More than 7

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. XXXVI DES MOINES, IOWA, AUGUST, 1925 No. 8

GENERAL SUMMARY

The mean temperature for August averaged very near the normal, all divisions being above normal, with the most decided excess in the northwest portion of the State. However, there were several areas in the eastern and southern portions that were considerably deficient. Fluctuations were rather numerous though they did not vary much from the normal. A rather protracted warm spell occurred during the last ten days in the western portion, while in the central and eastern portions it lasted from six to eight days. This was the 6th time during August that the maximum temperature did not reach 100° and at only one station did it fail to reach 90°. The lowest temperature occurred generally on the 21st and one station, Estherville, reported a light frost. Light frost was also unofficially reported from near Alta.

The average precipitation was also very near normal, but there was great variation even within short distances. The principal excess was confined to a strip running diagonally northeastward across the State, varying in width from over 100 miles in the southwest portion to less than 25 in the central and northeastern portions. There was a deficiency in a large area in the southeast section, but the principal deficient area was mostly north of a line running from the western portion of Pottawattamie county to Winneshiek county. There was very little rain during the last 10 days and this was aggravated by generally high temperatures over almost the entire State. In the northwestern portion the drouth was especially severe. A large area reported less than one inch of rain and the corn crop suffered to such an extent that it will be a complete failure in places. Corn in many portions of the State was injured somewhat by being hastened to maturity too rapidly by the dry hot conditions, and in many places the ground was too dry to plow. Pastures that had been revived by the rains during the early part of the month, were failing in all portions of the State at the close. Large areas in the northwestern portion were completely bare. Late truck crops also were injured. Local flood conditions developed in the southwestern portion following the heavy rains of the 6th-7th, with the worst condition in the smaller streams emptying into the Raccoon River in Cass, Audubon, and Guthrie counties. Some damage also occurred from overflows in the extreme southwestern counties. Hail was reported from a few localities in Dallas county on the 2d, causing no damage: on the 4th rather severe hail occurred in Humboldt county; on the 8th in Hardin and Story counties moderate hail occurred; and on the 16th destructive hail occurred over a large area in Pottawattamie county, causing damage to the extent of $75,000. What is believed to have been the worst hail storm in the history of the State occurred on the 18th. The storm apparently developed in the southeast corner of Poweshiek county and moved southeastward over portions of Iowa, Keokuk, Washington, Jefferson, Henry, Des Moines and Lee counties, and crossed the Mississippi river into Illinois where the damage continued. The approximate damage was $50,000 in Iowa county, $400,000 in Keokuk, $360,000 in Washington, $250,000 in Jefferson, and $1,000,000 in Henry county. The damage could not be approximated in Poweshiek, Des Moines and Lee counties, but the damage in the whole area was estimated as high as $5,000,000, and it undoubtedly amounted to $2,500,000. Another storm occurred on the 19th over a portion of the same area, but no additional damage was reported. Some of the stones were reported of unbelievable size, some disc shaped were four inches across and two inches thick. Many shingle roofs were pierced and stock of various kinds were killed. Passenger trains caught in the storm did not have a whole window glass left, and all windows on the exposed side of homes were broken. Fields of corn up to 75 acres did not have a single stalk standing. The damage to crops was so complete that many tenant farmers abandoned their leases and sought other employment.

The water supply in various parts of the State continued to fail and some railroads were compelled to haul water long distances for their own use. Water trains were run out of Des Moines to towns in the vicinity and some suburban residents of Des Moines were hauling city water by truck.

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
1890	68.4	—3.3	102	36	3.41	—0.03	6.44	1.02	------	8	15	10	6
1891	69.1	—2.6	106	34	4.24	+0.80	13.02	1.23	------	8	13	12	6
1892	71.4	—0.3	102	40	2.24	—1.20	4.69	0.65	------	5	18	9	4
1893	69.4	—2.3	101	30	2.32	—1.12	6.22	0.40	------	5	19	9	3
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	+0.24	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
1821	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

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

Climatological Data for August, 1925

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	52	73.2	+ 2.9	93	18	45	21	38	2.16	—1.39	0.50	0	9	25	6	0	se.	W. E. Laird
Allison (near)	Butler	1,044	13	70.3	— 0.2	93	29	44	21	39	3.59	+0.19	2.92	0	6	21	7	3	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	72.8	+ 2.5	92	17†	47	21	33	1.55	—2.03	0.63	0	10	18	9	4	s.	D. E. Hadden
Alton	Sioux	1,305	20	72.9	+ 2.0	93	17	40	21	40	0.31	—2.79	0.18	0	5	11	15	5	s.	W. S. Slagle
Belmond	Wright	1,205	15	71.4	+ 1.6	92	18	47	21	37	4.31	+1.23	1.50	0	9	5	24	2	s.	Geo. P. Hardwick
Britt	Hancock	1,236	38	70.9	+ 1.0	91	18	45	21	39	2.65	—1.12	1.32	0	9	20	9	2	se.	Jas. S. Ross
Charles City	Floyd	1,015	34	70.2	+ 1.1	92	29	46	21	35	2.70	—0.73	1.88	0	10	19	7	5	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	72.2	------	93	28	40	21	39	0.94	------	0.45	0	8	13	17	1	s.	J. E. Wirth
Decorah	Winneshiek	875	32	67.9	— 0.6	93	17	40	21	38	2.32	—0.98	1.58	0	9	21	9	1	se.	M. D. Whitney
Dubuque	Dubuque	698	52	72.2	+ 0.5	92	29	53	21	29	1.91	—1.42	1.74	0	5	11	13	7	s.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	71.7	+ 2.9	95	18	41	21	39	1.65	—1.54	0.60	0	8	19	10	2	s.	A. O. Peterson
Fayette	Fayette	1,003	35	69.8	+ 0.4	93	29	45	21	39	3.16	—0.38	2.34	0	6	24	6	1	sw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	70.7	+ 0.5	91	18	45	21	36	2.39	—0.98	1.00	0	8	7	19	5	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	70.7[a]	— 1.2	91[a]	29	44[a]	21	43[a]	3.28	—0.17	1.86	0	11	17	11	3	sw.	L. H. Davis
Humboldt	Humboldt	1,095	37	72.3	+ 0.5	94	18†	43	21	42	1.12	—2.18	0.43	0	8	19	9	3	s.	H. C. Snitkey
Independence	Buchanan	921	61	71.2	— 0.1	92	29	44	21	32	4.44	+1.23	2.00	0	6	20	6	5	se.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	73.9[c]	+ 3.4	96	24	44[f]	21	40[f]	1.13	—1.46	0.40	0	5	28	3	0	s.	A. C. Hanson
Le Mars	Plymouth	1,224	29	73.0	+ 2.0	94	28	39	21	42	0.50	—2.18	0.33	0	4	25	4	2	se.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	70.2	+ 0.6	90	17†	41	21	42	1.95	—1.79	0.96	0	5	12	16	3	se.	Amer. Beet Sugar Co.
Milford (near)	Dickinson	1,430	5	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	S. N. McKinsey
New Hampton	Chickasaw	1,169	28	70.3	+ 0.5	93	29	47	21	34	4.01	+0.51	2.47	0	7	14	10	7	s.	A. F. Kemman
Nora Springs	Floyd	1,064	13	70.3	— 0.9	91	18†	42	21	40	2.36	—1.41	1.07	0	9	19	11	1	s.	Arthur Betts
Northwood	Worth	1,222	29	70.0[f]	+ 1.5	90[f]	18	45[g]	21	31[h]	1.88	—2.08	0.50	0	9	15	11	5	se.	Chas. Dwelle
Oelwein	Fayette	1,036	1	71.2	------	94	29	47	21	35	2.80	------	2.15	0	3	15	9	7	s.	John T. Ridler
Osage	Mitchell	1,163	----	69.8	------	91	18	41	21	42	2.03	------	0.93	0	7	12	16	3	se.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	72.4	+ 1.8	95	18	42	21	36	2.97	—0.40	0.78	0	11	18	10	3	s.	F. E. Hronek
Postville	Clayton	1,180	26	67.5	— 0.3	89	18†	45	21	35	4.37	+0.92	3.20	0	5	2	27	2	w.	F. L. Williams
Rock Rapids	Lyon	1,358	26	73.5	+ 3.8	95	17†	40	21	44	1.83	—0.52	0.78	0	8	23	6	2	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	73.8	+ 3.3	96	4†	40	21	44	0.61	—2.60	0.38	0	5	17	11	3	se.	J. W. Dow
Sheldon	O'Brien	1,418	0	73.5	------	97	17	42	21	41	0.51	------	0.16	0	5	25	4	2	s.	Ross E. Forward
Sioux Center	Sioux	1,426	26	------	------	------	------	------	------	------	0.49	—2.33	0.46	0	2	------	------	------	------	J. de Ruyter
Spencer	Clay	1,319	11	73.6	+ 3.0	97	17†	40	21	44	2.41	—0.99	1.00	0	7	17	13	1	se.	E. W. Little
Storm Lake	Buena Vista	1,440	36	72.9	+ 1.5	90	4†	46	21	32	1.59	—1.55	0.35	0	9	24	4	3	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	72.1	+ 1.5	94	28	41	21	40	1.82	—1.12	1.00	0	7	19	8	4	s.	H. L. Felter
Waterloo	Black Hawk	854	42	72.0	+ 0.5	97	29	45	21	43	2.66	—0.65	1.86	0	6	20	7	4	se.	R. B. Slippy
Waverly	Bremer	936	29	70.9	+ 0.3	94	29	46	21	40	3.60	+0.36	2.21	0	8	22	7	2	se.	D. H. Murphy
West Bend	Palo Alto	1,197	32	71.4	+ 0.8	93	18	42	21	35	2.16	—1.53	0.54	0	9	17	13	1	s.	Jos. Dorweiler
Means and extremes	----------	------	----	71.5	+ 1.2	97	17†	39	21	44	2.23	—1.06	3.20	0	7	18	10	3	s.	
Central Division																				
Ames	Story	926	48	71.5	— 0.3	91	18†	48	21	34	6.46	+3.02	4.05	0	11	18	6	7	se.	Iowa State College
Audubon	Audubon	1,297	30	71.6	+ 0.8	91	18	50	2	37	6.53	+2.90	1.98	0	7	19	7	5	sw.	Geo. Kibby
Baxter	Jasper	998	25	72.2	0.0	92	9†	47	21	37	2.25	—0.98	1.54	0	6	16	11	4	s.	Henry Geise
Belle Plaine	Benton	866	35	72.9	+ 1.4	98	29	46	21	36	2.80	—0.43	1.49	0	11	12	13	6	se.	O. C. Burrows
Boone (near)	Boone	1,134	20	71.0	+ 0.1	91	18†	45	21	38	5.24	+1.68	4.19	0	6	------	------	------	se.	C. F. Henning
Carroll	Carroll	1,265	35	72.4	+ 1.3	92	18†	45	21	35	2.55	—1.30	1.30	0	11	23	4	4	sw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	72.8	— 0.5	97	18†	46	21	43	3.69	+0.19	2.31	0	8	15	6	10	se.	J. T. Wurster
Clinton	Clinton	595	52	73.0	+ 0.3	95	29	52	22	37	2.91	—0.72	1.67	0	5	21	5	5	s.	Dr. A. P. Bryant
Davenport	Scott	580	54	74.4	+ 1.3	94	29	54	21	30	3.75	+0.34	1.74	0	8	17	10	4	s.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	74.2	------	96	29	50	21	37	3.46	------	1.45	0	7	------	------	------	------	Rex Shriver
Denison	Crawford	1,171	31	72.4	+ 0.9	91	10	45	21	39	2.76	—1.05	1.21	0	10	19	6	6	s.	V. L. Byers
Des Moines	Polk	861	47	73.8	+ 0.7	92	25	53	21	30	4.79	+1.25	1.57	0	12	9	14	8	s.	U. S. Weather Bureau
Fairport	Muscatine	567	4	74.0	------	94	29	53	21	32	2.64	------	1.16	0	8	20	5	6	s.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	71.2	+ 0.4	92	18†	43	21	40	2.18	—1.42	0.73	0	10	23	4	4	se.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	73.6	+ 1.0	94	26†	50	21	32	2.36	—1.34	0.93	0	8	5	23	3	se.	Paul P. Meyers
Grundy Center	Grundy	976	34	71.2	— 0.7	93	29	45	21	38	4.08	+0.78	1.71	0	6	18	8	5	n.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	72.2	+ 0.5	90	18†	47	21	36	8.36	+4.50	5.54	0	9	22	5	4	s.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	71.7	+ 0.7	90	18	47	21	36	5.42	+1.76	2.35	0	8	13	15	3	s.	Nels Bisgard
Iowa City	Johnson	733	65	72.5	+ 0.5	95	29	50	21	35	3.14	—0.96	1.31	0	9	20	6	5	se.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	70.0	+ 0.4	90	29	45	21	33	3.49	+0.08	1.87	0	10	16	9	6	s.	J. B. Parmelee
Jefferson	Greene	1,052	26	71.0	+ 0.3	91	28	43	21	34	2.06	—1.12	0.86	0	8	------	------	------	sw.	W. I. Lyon
Kalo	Webster	------	------	------	------	------	------	------	------	------	3.42	------	1.53	0	6	------	------	------	------	S. C. Fuller
Le Claire	Scott	576	25	------	------	------	------	------	------	------	3.36	+0.33	1.47	0	8	------	------	------	------	Margaret T. Dismey
Little Sioux	Harrison	1,040	20	74.0	+ 1.4	95	28	45	21	38	2.78	—0.96	0.75	0	8	18	9	4	s.	H. W. Kerr
Logan	Harrison	1,035	58	73.8	+ 1.1	92	18†	48	1†	38	3.08	—0.61	0.80	0	7	23	3	5	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	70.8[a]	------	94[a]	29	45[a]	22	38[a]	2.34	------	1.88	0	3	------	------	------	se.	John Strodthoff
Marshalltown	Marshall	947	33	73.4	+ 0.6	95	29	49	21	32	3.86	+0.86	2.22	0	6	18	7	6	se.	C. C. Pigman
Monroe	Jasper	922	13	74.0[h]	+ 0.6	96[h]	18	49[g]	21	35[h]	3.20	—0.20	1.04	0	7	18	8	5	s.	J. A. Dibel
Muscatine	Muscatine	544	64	------	------	------	------	------	------	------	2.51	—1.63	0.95	0	6	------	------	------	------	Wm. Molis
Olin	Jones	760	26	71.7	+ 0.1	95	25	48	21†	37	3.17	—0.43	1.74	0	2	22	6	3	se.	Mrs. L. Stingley
Onawa	Monona	1,051	24	72.1	0.0	91	4	48	21	35	4.88	+0.82	3.00	0	6	23	2	6	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	71.9	0.0	93	18†	44	21	40	5.51	+1.44	4.08	0	10	14	11	6	e.	Eugene N. Hastie
Rockwell City††	Calhoun	1,134	29	------	------	93[h]	28	45[g]	21	34[h]	2.37	—1.25	1.00	0	5	------	------	------	nw.	A. W. McIsaac
Sac City	Sac	1,278	49	72.3	+ 0.7	91	3†	47	21	33	3.38	—0.01	0.76	0	8	------	------	------	se.	F. P. Kessler
Sioux City	Woodbury	1,135	36	73.6	+ 1.6	91	4	49	21	33	0.71	—2.43	0.45	0	5	17	8	6	s.	U. S. Weather Bureau
Tipton	Cedar	807	26	71.8	— 0.4	93	29	48	2	34	3.59	—0.23	1.68	0	8	18	8	5	e.	Chas. H. Obye
Toledo	Tama	856	31	71.7	— 0.4	95	29	45	21	38	3.33	+0.40	1.65	0	9	21	6	4	se.	I. F. Giger
Van Meter	Dallas	872	6	------	------	------	------	------	------	------	4.31	------	2.10	0	5	------	------	------	------	Calvin K. Smith
Waukee	Dallas	1,039	22	72.8	+ 0.3	93	18	48	21	34	2.78	+0.42	1.22	0	11	24	4	3	se.	Samuel F. Foft
Webster City	Hamilton	1,042	20	70.2	— 1.4	91	18	44	21	41	3.63	+0.81	1.00	0	9	17	11	3	se.	Frank A. Bonebright
Williamsburg	Iowa	765	9	70.8	— 0.9	93	29	47	21	38	2.51	—0.99	1.19	0	8	22	7	2	sw.	Dr. F. C. Schadt
Means and extremes	----------	------	----	72.3	+ 0.4	98	29	43	21	43	3.61	+0.08	4.36	0	8	18	9	5	se.	

Climatological Data for August, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	74.3	+ 1.7	99	18	49	21	37	5.25	+1.87	1.50	0	9	16	11	4	sw.	S. R. Brown
Albia	Monroe	959	27	74.4	+ 1.8	96	25	49	21	35	3.22	—0.11	1.29	0	10	21	7	3	ne.	O. E. McBride
Atlantic	Cass	1,164	34	73.0[a]	+ 0.3	92[a]	18	47[a]	21	36[a]	5.54	+2.07	2.66	0	12	----	----	----	s.	Mrs. Martha E. Reynolds
Bonaparte	Van Buren	563	34	72.8	0.0	94	29	52	16†	33	2.92	—0.57	1.19	0	7	23	5	3	w.	B. R. Vale
Burlington	Des Moines	544	29	75.0	+ 0.6	95	29	56	2	31	3.77	+0.04	1.41	0	8	22	4	5	nw.	John W. Donnelly
Centerville	Appanoose	1,013	20	73.7	+ 0.5	95	18	49	21	32	3.49	+0.01	1.56	0	7	25	4	2	se.	Thomas Wood
Chariton (near)	Lucas‡	1,042	30	73.3	+ 1.4	95	28†	48	21	35	3.68	—0.01	1.50	0	6	14	13	4	sw.	C. C. Burr
Clarinda	Page	1,009	35	73.5	— 1.1	94	18	51	21	35	8.05	+4.52	2.38	0	9	17	10	4	se.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	71.7	— 1.4	94	29	50	2	34	2.70	—1.64	1.18	0	8	13	16	2	nw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	72.8	+ 0.6	94	18	45	21	38	6.18	+2.40	1.25	0	9	20	6	5	se.	Jerome Smith
Corydon	Wayne	1,101	32	73.6	+ 0.4	94	18	50	21	35	6.49	+3.25	3.17	0	9	16	12	3	sw.	A. T. Gallagher
Creston††	Union	1,312	20	72.8	+ 0.8	94	18	48	21	32	5.37	+2.11	2.16	0	11	17	8	6	sw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26	----	----	----	----	----	----	----	4.45	+1.00	2.02	0	9	17	7	7	s.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	71.8	+ 0.4	92	18	46	21	38	3.28	—0.55	1.11	0	7	25	1	5	sw.	Geo. Phillips
Fairfield	Jefferson	780	41	73.4	+ 0.6	97	29	50	21	38	4.46	+0.99	1.18	0	9	18	6	7	s.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	74.1	+ 0.1	92	18†	50	1†	36	5.23	+1.87	1.98	0	7	15	13	3	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	73.6	+ 0.5	92	9†	52	2	36	4.07	+0.23	1.65	0	7	16	12	3	se.	Seth F. Shenton
Keokuk	Lee	614	54	75.2	+ 0.2	94	29	56	1	28	4.68	+1.75	2.02	0	8	10	17	4	se.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	73.0	— 0.2	92	30	49	21	35	3.09	—0.18	1.61	0	8	17	10	4	se.	J. H. Landes
Knoxville	Marion	920	30	73.3	+ 0.9	95	29	48	21	38	3.38	—0.53	0.87	0	8	19	7	5	se.	**W. J. Casey.**
Lacona	Warren	824	26	----	----	----	----	----	----	----	3.65	+0.20	1.38	0	8	11	14	6	------	J. B. Alter
Lamoni	Decatur	1,123	18	73.1	+ 0.7	93	4†	51	21	39	5.23	+1.45	1.71	0	8	21	8	2	se.	F. S. Parks
Lenox	Taylor	1,250	30	73.5	— 0.2	95	18	49	21	34	7.00	+3.64	1.98	0	10	16	12	3	nw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	72.4	— 0.6	92	18	49	21	35	6.24	+2.84	2.00	0	9	22	4	5	s.	Alex Maxwell
Mt. Pleasant	Henry	729	44	73.8	+ 0.2	95	29	52	21	30	2.75	—0.52	0.75	0	10	15	12	4	ne.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	72.1	— 0.8	92	18	47	1†	40	5.31	------	2.42	0	9	23	2	6	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	72.2	+ 0.1	93	29	51	21	33	4.64	+1.55	1.94	0	7	19	6	6	se.	Roy R. Robinson
Ottumwa	Wapello	649	30	75.8	------	96	25†	51	21	40	2.86	—0.59	0.83	0	7	24	3	4	e.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	----	----	----	----	----	----	----	----	5.86	------	1.86	0	7	12	14	5	e.	B. R. Bridge
Sigourney (near)††	Keokuk	790	29	73.2	+ 0.6	97	29	50	21	37	2.51	—0.59	0.85	0	10	20	5	6	se.	W. E. Utterback
Stockport††	Van Buren	747	23	73.3	+ 0.7	95	29	50	21	36	3.69	+0.59	1.60	0	8	23	4	4	s.	C. L. Beswick
Thurman	Fremont	975	28	74.4	+ 0.7	93	18†	50	2†	35	7.47	+3.40	2.61	0	7	4	25	2	se.	C. R. Paul
Tingley	Ringgold	1,275	----	72.4	------	94	18	49	21	34	5.94	------	1.66	0	9	20	6	5	ne.	James A. VerPloegh
Washington	Washington	769	43	73.8	+ 1.4	96	29	51	22	34	3.46	—0.19	1.11	0	8	25	0	6	ne.	D. D. Sherman
Wescott (near)††	Lee	523	3	74.5	------	95	30	52	21	36	5.07	------	1.95	0	7	24	4	3	sw.	Lester J. Larson
Winterset	Madison	1,129	34	73.4	+ 0.2	94	18	47	21	34	3.53	+0.04	1.02	0	8	21	7	3	sw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	75.5	+ 1.1	94	18	56	21	25	2.70	—0.92	1.52	0	8	18	6	7	se.	U. S. Weather Bureau
Means and extremes	----------	------	----	73.5	+ 0.5	99	18	45	21	40	4.58	+1.09	3.17	0	8	18	9	4	se.	
State means and extremes	----------	------	----	72.4	+ 0.7	98	18	39	21	44	3.47	+0.03	4.36	0	8	18	9	4	se.	

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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean Noon	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	30.05	30.36	26	29.78	12	84	53	62	28	31	3,791	5.1	18	s	22	74	+ 3
Davenport	30.05	30.37	25	29.68	12	80	50	56	28	21	3,513	4.7	30	ne	19	76	+ 5
Des Moines	30.03	30.34	25	29.69	12	83	54	61	27	31	3,838	5.2	28	s	17	69	— 3
Dubuque	30.04	30.33	25	29.69	12	83	51	60	28	31	3,290	4.4	17	s	18	71	+ 7
Keokuk	30.06	30.37	25	29.72	12	79	53	61	33	4	3,305	4.4	35	nw	18	77	+ 4
Sioux City	30.02	30.39	25	29.75	16	78	50	50	26	25	7,938	10.7	43	e	16	73	+ 3
Omaha, Neb.	30.01	30.34	26	29.73	11	77	55	58	31	†1	4,632	6.2	30	nw	19	84	+15
Means and extremes	30.04	-----	-----	-----	----	81	52	58	---	----	------	5.8	----	-----	----	75	+ 5
	-----	30.39	25	29.68	12	--	--	--	26	25	------	----	43	e	16	----	----
Normals and records	29.97	-----	24th	-----	10th	82	--	61	---	5th	------	6.3	---	-----	6th	70	----
	-----	‖30.43	1909	§29.40	1874	--	--	--	¶19	1918	------	----	‖70	sw	1916	----	----

‖Sioux City. §Omaha. ¶Des Moines. ‡Local mean time. †And other dates

TEMPERATURE

The mean temperatures for the State, as shown by the records of 101 stations, was 72.4°, or 0.7° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 71.5°, or 1.2° higher than the normal; Central, 72.3°, or 0.4° higher than the normal; Southern, 73.5°, or 0.5° higher than the normal. The highest monthly mean was 75.8°, at Ottumwa, and the lowest was 67.5° at Postville. The highest temperature recorded was 99°, at Afton, on the 18th, and the lowest was 39°, at Le Mars on the 21st. The temperature range for the State was 60°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 110 stations, was 3.47 inches, or 0.03 inch more than the normal. By divisions, the averages were as follows: Northern, 2.23 inches, or 1.06 inches less than the normal; Central, 3.61 inches, or 0.08 inch more than the normal; Southern, 4.58 inches, or 1.09 inches more than the normal. The greatest amount, 8.36 inches, occurred at Guthrie Center, and the least, 0.31 inch, occurred at Alton. The greatest amount in 24 consecutive hours, 5.54 inches, occurred at Guthrie Center on the 6th-7th.

Daily Precipitation for August, 1925

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				.10	.15		.05				.10	.50						.25				.40							.45	.16		2.16
Allison (near)	Cedar					.10		2.92				.01	.33						.13		.10											3.59
Alta	Raccoon		.10			.04							.63					.06		.10	.10		.05	.01					.10	.36		1.55
Alton	Floyd				.03							.11	.07				T.			.06			T.			.04						0.31
Belmond	Iowa					.15		1.20	.76			.05	.50				T.		1.50	.05			.05						T.	.05		4.31
Britt	Iowa					.03		.52	.19			.02	.16						1.32	T.			.12						.10	.19		2.65
Charles City***	Cedar	T.	T.		T.	.28		1.60				.01	.52					.02	.10	.01	.01		.11						T.	.04		2.70
Cherokee	Little Sioux	T.			.04	.11						.24	.21				T.	T.		.19			.02						.09	.04		0.94
Decorah	Mississippi	.0		.04	.01			1.41	.17				.06	.30						.05	T.									.21		2.32
Dubuque***	Mississippi	T.				T.	.04	1.70				.13	.01					T.		T.	.03		T.							T.		1.91
Estherville	Des Moines					.30			.02				.25	.02		T.			.03											.10		1.65
Fayette	Mississippi	.0		T.				2.34					.51						.07	.11	T.	T.										3.16
Forest City	Cedar	T.	T.				.12	.04	.03	.70			.28	.04					1.00	T.			T.	T.						.18		2.39
Hampton	Cedar			.20		.25	.01	1.84	.02			.07	.28						.53	.02	.02									.04		3.28
Humboldt	Des Moines	.0							.13			.20	.23						.10	.12	T.		.23						.07			1.12
Independence	Wapsipinicon			.84		T.		2.00				.04	.84					.31	.41													4.44
Inwood	Big Sioux				T.	.02			T.				.38	T.							T.		.40				.08		.25		1.13
Lansing	Mississippi		.5	.01			T.	1.87	.96				T.	.16						.04	.01								.18		3.54
Le Mars	Floyd											.24	.09				T.			.13									.04		0.50
Mason City	Cedar	T.			T.	T.	T.	.63	T.			T.	.23						.96	T.	.03								.10		1.95
Milford (near)	Little Sioux																															
New Hampton	Wapsipinicon			.29				2.47					1.05	T.					.09	.01	.01								.09		4.01
Nora Springs	Cedar	.0				.01		1.07				.09	.55						.43	.03									.04	.12		2.36
Northwood	Cedar					.15		.12	.13			T.	.36						.13		.08		.06						.35	.50		1.88
Oelwein	Wapsipinicon							2.15					.25						.40													2.80
Osage	Cedar	T.				.01		.80				.02	.91			T.			.09		.06		T.							.14		2.03
Pocahontas	Des Moines	T.			.78	.31		.1	T.			.35	.16				.04			.18	.14		.6						.14	.06		2.97
Postville	Mississippi	.04	T.	T.				3.2					.93					T.	.10		T.		T.							.10		4.37
Rock Rapids	Big Sioux			.05		.10						.15	.21										.78				.03		.11	.40		1.83
Sanborn	Floyd					.04						.03	.13										.38							.03		0.61
Sheldon	Floyd					.05			T.			.16	.14				T.		T.				.14			T.			.02			0.51
Sioux Center	Floyd											.46																	.03			0.49
Spencer	Little Sioux				.70	.30							.15							.01			1.00						.02	.23		2.41
Storm Lake	Raccoon	.0			.17	.30	T.	.03				.35	.17				.12			.30									.12			1.59
Washta	Little Sioux			T.	T.	T.	T.		T.			1.00	.12				.12			.37	.02		T.						.13	.06		1.82
Waterloo	Cedar		T.	.21	T.		.05	1.86					.33	T.				T.		.15	.06									T.		2.66
Waverly	Cedar	.13				.05		2.21					.49					.02	.61	.03	.06											3.60
West Bend	Des Moines	.14			T.	.54		.32	T.			.16	.38							T.	.03		.19						.30	.10		2.16
Central Division																																	
Ames	Skunk	.03				.48	.22	4.05		.60		.39	.12				T.		.25	.31			.01							.07		6.46
Audubon	Nishnabotna				T.	T.	1.98	1.75				.10					.80			1.80								.02	.08			6.53
Baxter	Skunk						1.54			T.		.31						.05	.03	.22										.10		2.25
Belle Plaine	Iowa	.05				.05	1.44		.01			.21	.68					.02	.07	.17	.03									.07		2.80
Boone	Des Moines						.40	4.19					.15					T.		.10	.30			T.							.08	5.24
Carroll	Raccoon					.27	.05	1.30		.08			.30					.03	T.	.21	.20			.02						.06	.03		2.55
Cedar Rapids	Cedar							1.01	.06				2.28	.03				.01		.09	.15	T.		T.								.06	3.69
Clinton	Mississippi							1.12					1.67					.04		.06										.02		2.91
Davenport***	Mississippi																															
Davenport (No. 2)	Mississippi						.07	1.24	.02			.60	1.14					.32	T.	.13	T.									.23		3.75
								1.29	.03			.02	1.45					.22		.16	T.									.29		3.46
Denison	Missouri	.01			.05	.05	.06					.19	1.02				.59			.67	.04								.08			2.76
Des Moines***	Des Moines	.03	.40			.09	.82	.75				.82	.59				.04	.18	.09	.95	T.		T.							.03		4.79
Fairport	Mississippi							.82	.02			.01	1.16					.12	T.	.31	T.									.14	.03	2.64
Fort Dodge	Des Moines	.02	.04			.01	.61	.25					.73						.03	.01	.32									.16		2.18
Grinnell	Iowa	.07					.13	.93				.03	.70						.23	.19									.08			2.36
Grundy Center	Cedar	.11				.18		1.71				T.	1.61						.34	.13	T.	T.	T.									4.08
Guthrie Center	Raccoon		T.		1.24		1.18	4.36				.27	.16				.22	.08	T.	.80										.05		8.36
Harlan	Nishnabotna						2.00	.35				.25	.15				.75			1.75									.10	.07		5.42
Iowa City	Iowa							1.14	.17				1.16	.05				.16		.05	.25	.02									.14	3.14
Iowa Falls	Iowa	T.	.02				.44	1.87		.06			.51					.05	.21	.17	.12			.04							T.	3.49
Jefferson	Raccoon				.03	T.	.36	.50				.16	.01				T.		.08	.30			.60						T.	T.		2.06
Kalo	Des Moines						.47	T.					.98					1.53		.29	T.			.08						.07		3.42
Le Claire	Mississippi	.01						.56	.70				1.47		T.			.12	.06	T.	.22			T.							.22	3.36
Little Sioux	Little Sioux						.68		.12	.04		.25	.09				.68			.75									.17			2.78
Logan	Missouri						.80	.10				.47	.05				.76			.77									.13			3.08
Maquoketa	Maquoketa							1.88				T.	.41							.05												2.34
Marshalltown	Iowa		T.		T.		T.	2.22	.01	T.			.95					T.		.44	.20	T.		T.							.04	3.86
Monroe	Des Moines	.0					.46	.65				.13	.60				T.	.24	T.	1.04	T.		T.							T.		3.20
Muscatine	Mississippi							.80	.06				.95					.20	T.	T.	.36	T.									.14	2.51
Olin	Wapsipinicon							1.43					1.74																	T.		3.17
Onawa	Missouri						T.					1.80	1.20				.60	.33	T.	.87									.08			4.88
Perry	Raccoon	T.	T.			.49	1.52	2.56				.40	.09					.03	.07	.20			.10								.05		5.51
Rockwell City	Raccoon				.10	.75						.70	.30							.52													2.37
Sac City	Raccoon	T.			.18	.63		.11	T.			.62	.55				.05			.48			.76						T.			3.38
Sioux City***	Missouri						T.		T.	T.		.21	T.				T.	.04	T.	.34	.11									T.	.01	T.	0.71
Tipton	Cedar							1.33				.04	1.68					.15	.06	.15	.11									.07			3.59
Toledo	Iowa	.10	.06	.16			.10	1.55				T.	1.20						.04		.04									.08			3.33
Van Meter	Raccoon						.50	1.42					.07					.22			2.10												4.31
Waukee	Raccoon	T.	.61			.05	1.22					.20	.45				.01	.14	.06	1.00			.01							.03			3.78
Webster City	Des Moines					.70	T.	.35	.60			.30	.70						.51	.22	.07		.18							T.			3.63
Williamsburg	Iowa						.08	1.11					.44					.12	.27	.32	.03									.14			2.51

Daily Precipitation for August, 1925—Continued

Stations	Drainage Basin	Day of Month																														To-tals
		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		T.				1.08	.16				.75	1.50				.05	1.00	.35	.16	.20												5.25
Albia‖‖	Des Moines		.12		.06			1.29			.01		.65					.43	.05	.07	.52	.02											3.22
Atlantic‖‖	Nishnabotna			.02		.05	.58	2.08		.03		.05	1.18					1.17	T.	.30	.03									.02	T.	.03	5.54
Bonaparte	Des Moines						T.	.50		.20		.20	.99					.59		.40	.04										T.		2.92
Burlington‖‖	Mississippi							.55	.66		T.		1.41					.03	.02	.81	.28	.01										T.	3.77
Centerville	Chariton																															
Chariton (near)	Chariton	.12					.37	.41				.59	1.09					.47	T.	T.	.44												3.49
Clarinda‖‖	Nodaway	T.		T.			.55	.50				.56	.94					.95	T.	T.	.18										T.		3.68
Columbus Jct.	Iowa	.06			.01		.04	2.30				.74	1.64					2.38			.83											.02	8.05
Corning	Nodaway			.07				1.18				.05	.50					.36	.15	.28											.11		2.70
			T.		.45		1.15	.47				1.16	1.25				.05	1.14		.05	.46												6.18
Corydon	Chariton	T.																														
Creston‖‖	Missouri			.04			.76	.67				.73	2.44					1.06	.14	.15	.50												6.49
Cumberland (near	Nodaway		.28	.08	.13	.02	T.	1.34				.08	2.01					.50		.55	.38												5.37
Earlham	Des Moines			T.	.05		1.58	.44				.69	.76				.14		.33	.36	.10									T.	T.		4.45
Fairfield	Skunk						1.11	.23				.59	.26				.18	.30		.61													3.28
							.07	1.01				.08	.48					1.18	.83	.48	.23										.10		4.46
Glenwood	Missouri																															
Indianola	Des Moines						1.98					1.37	.16					.55		.56	.57										.04		5.23
Keokuk***	Mississippi	T.					.73	.70				.23	1.65					.26		.47	.03		T.								T.		4.07
Keosauqua	Des Moines						.01	.97		.72		.34	1.68				T.	.14	.45	T.	.37												4.68
Knoxville	Des Moines						.05	.30		.52		.22	1.39					.55		.01	.05										T.		3.09
		T.					.52	.82				.12	.87					.37	.10	.53	T.										.05		3.38
Lacona	Des Moines																															
Lamoni‖‖	Grand	.01					.33	1.02				.50						.40	.48	.90											.01		3.65
Lenox	Missouri			.01				1.71	T.			.21	1.01				.14	1.21	.01		.87												5.23
Mt. Ayr	Grand	T.	.10		.07		1.50	.48				1.94	1.27					.98		.05	.56										.05		7.00
Mt. Pleasant	Skunk	T.	.15				2.00	.16				1.13	.43				.27	1.37		.02	.71												6.24
				.01			.05	.73				.06	.75					.35	.42	.22	.03										.13		2.75
Oakland	Nishnabotna						2.17	.25				.78	.89				.20	.12		.59										.20	.18		5.31
Oskaloosa	Des Moines	T.					.27	.79				.24	.28					1.12	1.06	.88											T.		4.64
Ottumwa	Des Moines	T.		T.			.09	.65		T.		.07	.42					.83		.75	.05												2.86
Red Oak (near)	Missouri					.10	1.86				T.	1.23	.85				T.	.87			.85										T.	.10		5.86
Sigourney	Skunk	.01	.10				.08	.77				.08	.45					.25	.03	.66												.03		2.51
Stockport	Skunk						T.	.55		.08		.15	1.45					.75		.58	.06										.07		3.69
Thurman	Missouri						2.61	.04			T.	2.03	.71				T.	1.14		.03	.91									T.	T.		7.47
Tingley	Platt	.12	.02				1.50	.32				1.10	.60				.12	1.66		T.	.50										T.		5.94
Washington	Skunk							1.11				.22	.52					.26	.70	.49	.08										.08		3.46
Wescott (near)	Mississippi							1.95				.15	1.43					.22	.40	.82	.10												5.07
Winterset	Des Moines						.85	.21				.41	1.02				.13	.64		.23	.04												3.53
Omaha, Neb.***	Missouri						1.52	T.	.03			.66					.13			.05	.10									.17	.04		2.70

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: 22d, 23d.

Fog: 2d, 3d, 11th, 13th, 14th, 18th.

Frost (light): 21st; 1 station.

Hail: 2d, 4th, 8th, 9th, 12th, 18th, 19th.

Halos (lunar and solar): 10th, 21st, 29th, 31st.

Rainbows: 4th, 22d, 29th, 30th.

Thunderstoms: 1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 11th, 12th, 16th, 17th, 18th, 19th, 20th, 22d, 29th, 30th.

Winds (high): 18th, 23d.

RIVERS

Low stages prevailed on the Mississippi River during the entire month. There was a slight rise following the heavy rains of the 6th-7th and a gradual fall till the end of the month. On the interior rivers low stages prevailed with a moderate rise following the rains of the 6th-7th, except on the Raccoon and its tributaries, where a sharp rise occurred, which diminished rapidly down the Des Moines River. On the Missouri River there was a steady fall throughout the mont, from moderate stages at the beginning to rather low stages at the end of the month.

ERRATA

Report for July, 1925. Dubuque, Page 50; mean temperature reported, 72.4°, should be 72.5°; departure reported —1.7°, should be, —1.6°; Page 54; maximum temperature on the 16th reported 78°, should be 79°, mean maximum reported 82.4°, should be 82.5°.

TORNADOES IN IOWA, JUNE, 1925

Arthur H. Christensen, Observer

(Continued from July report)

Tornadoes at Alexander and Vicinity

On June 11, 1925, a series of tornadoes occurred in the following four counties: Franklin, Floyd, Butler and Chickasaw. The greatest destruction was wrought in Franklin county, where the damage amounted to approximately $350,000, the damage being greatest in the town of Alexander, where it was estimated at $150,000. The tornado had the usual funnel-shaped cloud and rotary winds and entered Alexander from the southwest, tearing a path through the town about 150 to 200 feet wide and departing to the northeast, continuing its destruction across country to the locality west of Chapin in the same county. The length of the path was about 15 miles. About 15 persons were injured in Alexander, none of whom were very seriously hurt, and about three or four injured in or near Chapin. Mrs. Margaret Evans, a farmer's wife living west of Chapin died of injuries received. The towns of Hampton and Popejoy were also struck by twisters at about the same time, and it is evident from the location of these towns and the direction of movement of the storms that no single tornado could possibly have traveled in such a manner as to include the towns hit. The only explanation, therefore, is that a series of small

Daily Maximum and Minimum Temperature for the Month of August, 1925

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
Northern Division																																	
Algona	Maximum	82	87	88	91	80	80	83	89	86	88	80	73	76	83	88	88	90	93	86	76	80	79	88	91	91	91	85	92	86	83	85	85.1
	Minimum	54	55	57	60	62	64	63	60	60	55	60	62	69	66	63	63	63	67	67	60	45	57	66	63	62	53	60	61	69	66	66	61.2
Alta	Maximum	80	85	88	89	87	74	87	88	84	87	70	73	76	87	87	80	92	89	84	78	80	85	91	92	88	88	90	92	85	90	86	84.9
	Minimum	53	57	59	62	65	66	64	62	62	58	61	61	57	55	65	62	62	69	65	57	47	58	64	60	64	58	60	64	66	66	55	60.8
Alton	Maximum	84	87	89	90	90	81	88	89	86	87	79	75	77	86	88	83	93	91	89	78	80	85	92	92	85	86	89	92	87	85	85	86.1
	Minimum	49	50	60	62	62	55	58	63	57	52	63	60	56	47	67	65	62	67	66	63	40	60	67	61	69	57	61	67	69	69	47	59.7
Belmond	Maximum	85	86	88	88	78	81	80	86	86	90	76	71	79	83	85	81	89	92	84	81	75	75	85	88	91	85	83	88	89	88	86	83.9
	Minimum	52	51	58	60	58	63	64	57	58	56	58	61	57	52	61	51	65	66	68	62	47	56	61	61	65	51	58	62	70	69	49	58.9
Charles City	Maximum	79	82	85	87	81	83	78	85	82	83	78	68	75	79	84	82	86	89	80	76	73	76	85	88	86	80	80	87	92	82	84	81.8
	Minimum	53	53	57	62	60	64	61	59	59	56	55	61	57	54	60	62	69	65	64	53	46	56	62	60	62	55	58	57	66	57	49	58.5
Decorah	Maximum	78	80	83	84	84	85	78	84	80	80	78	71	76	85	82	81	93	89	84	72	74	77	84	88	87	81	77	84	91	81	83	81.7
	Minimum	50	48	49	51	55	60	60	56	54	52	49	60	53	50	54	58	61	57	62	57	40	53	50	56	57	56	52	52	60	61	45	54.1
Dubuque	Maximum	75	82	83	84	85	86	75	85	88	84	79	79	80	82	82	85	85	90	79	77	73	78	84	89	91	82	79	84	92	84	85	82.8
	Minimum	57	56	57	60	62	67	65	65	65	62	59	62	63	59	62	62	70	67	66	58	53	54	63	65	64	64	57	57	63	69	59	61.7
Forest City	Maximum	79	85	87	87	78	83	81	87	82	84	79	69	74	83	85	83	89	91	86	78	75	75	85	88	85	82	82	88	89	83	88	82.9
	Minimum	57	53	56	58	58	63	61	57	56	50	56	59	57	54	60	61	64	64	66	59	45	54	60	60	65	54	58	60	70	65	52	58.5
Independence	Maximum	77	88	84	84	82	81	79	84	85	84	81	80	79	79	82	84	84	89	87	84	76	78	84	89	89	88	81	86	92	89	84	83.5
	Minimum	54	54	56	59	60	61	62	58	61	57	59	60	58	54	57	59	67	68	68	61	44	53	59	61	61	58	55	54	61	70	54	58.8
Inwood	Maximum	86	89	91	95	92	87	91	92	90	86	76	77	80	87	91	88	94	94	92	84	83	87	89	96	84	86	93	95	93	88	83	88.4
	Minimum	49	52	60	62	64	64	54	66	59	50	59	59	53	47	66	67	67	69	69	56	44	64	----	----	----	----	----	----	----	69	61	55	59.4[f]
Mason City	Maximum	73	85	88	86	79	84	80	87	81	83	77	70	74	82	84	82	90	90	84	80	75	75	86	90	88	83	82	90	89	84	87	82.8
	Minimum	51	48	53	56	55	64	62	56	57	52	50	59	55	50	61	61	62	62	68	69	41	62	54	58	64	63	55	57	69	67	45	57.6
Milford (near)	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
New Hampton	Maximum	78	82	86	86	81	82	77	86	83	84	81	70	77	82	84	84	88	90	83	76	76	76	86	90	87	84	81	88	93	83	86	82.9
	Minimum	53	50	55	57	57	59	60	58	57	54	56	59	56	52	56	59	67	62	66	59	47	53	59	59	60	56	54	54	63	69	62	57.7
Northwood	Maximum	83	86	87	----	77	84	81	87	----	83	78	70	80	81	----	----	87	90	87	----	----	81	85	88	85	83	81	87	83	80	83	83.1[f]
	Minimum	53	55	58	----	57	60	61	59	----	57	55	60	58	53	----	----	57	63	----	----	45	53	58	59	63	57	53	57	----	60	52	56.8[g]
Pocahontas	Maximum	81	88	90	90	88	77	83	90	86	89	75	75	78	84	88	88	90	95	84	84	78	80	87	90	86	85	87	92	85	86	84	85.3
	Minimum	53	56	54	56	64	64	64	59	59	55	60	62	59	49	63	65	60	66	65	60	42	56	61	60	63	63	58	64	67	67	50	59.5
Postville	Maximum	73	78	80	81	80	82	71	82	81	79	75	70	75	77	79	80	82	89	79	72	69	72	81	85	84	78	75	81	89	80	82	78.7
	Minimum	50	51	54	54	57	70	59	58	57	56	51	58	54	51	57	59	66	59	61	58	45	53	59	60	62	56	50	52	63	67	47	56.3
Central Division																																	
Belle Plaine	Maximum	80	85	87	91	91	83	77	89	92	91	76	80	84	82	89	90	90	94	84	82	77	81	89	95	96	88	85	92	98	82	87	86.7
	Minimum	56	52	54	56	59	61	62	56	61	59	61	61	58	53	59	62	67	65	67	60	46	55	61	62	60	57	58	59	64	68	53	59.1
Boone	Maximum	83	86	88	90	80	75	82	87	87	90	76	74	80	84	87	83	87	91	80	82	76	80	86	89	91	87	86	91	91	86	86	84.5
	Minimum	48	48	51	54	55	60	64	54	57	53	57	66	55	49	62	62	60	63	69	61	45	54	60	59	58	57	57	62	70	65	49	57.5
Carroll	Maximum	83	86	88	90	90	76	80	86	85	90	79	71	82	85	81	84	89	92	82	82	77	81	87	90	91	89	88	92	87	91	88	85.2
	Minimum	50	55	54	57	59	65	63	59	60	55	60	63	67	53	64	59	60	66	65	62	45	56	61	57	66	58	56	63	67	67	54	59.5
Cedar Rapids	Maximum	82	90	92	90	93	87	78	93	93	94	80	88	86	85	88	91	93	97	88	84	80	82	93	96	97	90	85	88	97	82	92	88.8
	Minimum	56	49	52	52	54	56	62	58	58	56	57	61	58	54	54	56	66	59	68	58	46	49	58	61	54	60	54	54	61	65	52	56.7
Davenport	Maximum	75	83	85	87	89	87	78	86	91	89	81	86	84	82	84	86	88	92	80	80	74	79	85	90	92	85	82	88	94	92	87	85.3
	Minimum	57	58	61	61	62	69	67	66	70	68	67	62	65	60	64	64	70	69	66	60	54	57	62	67	68	65	57	58	65	68	65	63.6
Des Moines	Maximum	81	84	87	88	82	73	80	89	92	90	73	75	82	85	87	84	88	92	79	82	76	81	86	90	92	87	84	92	92	87	87	84.7
	Minimum	57	56	58	58	63	66	66	60	66	65	65	65	61	58	64	66	66	70	68	60	53	58	62	62	65	65	62	63	70	72	64	63.0
Ft. Dodge	Maximum	89	86	87	90	79	77	81	88	85	90	75	72	79	85	87	85	91	92	83	81	78	78	88	91	88	87	87	92	90	90	88	84.9
	Minimum	51	50	54	54	59	62	62	55	57	53	58	62	55	50	60	59	60	65	68	58	43	55	61	59	61	52	57	61	69	66	48	57.6
Grinnell	Maximum	79	85	88	88	87	81	78	88	91	89	83	80	82	84	87	88	90	92	89	81	78	81	87	91	93	94	87	93	94	88	89	86.6
	Minimum	54	55	58	59	61	63	62	60	61	64	63	64	59	56	61	62	65	64	66	62	50	56	60	62	64	62	57	58	64	68	59	60.6
Guthrie Center	Maximum	89	88	89	81	86	80	77	85	89	89	78	73	81	85	86	79	87	90	84	81	75	81	85	82	89	90	86	87	90	84	85	84.0
	Minimum	50	52	55	68	66	64	63	55	61	58	62	63	59	54	65	60	65	66	65	61	47	56	63	62	59	66	58	59	65	68	53	60.3
Iowa City	Maximum	78	84	85	87	88	84	78	86	90	89	79	85	82	82	84	88	86	90	79	79	76	80	86	91	93	86	83	87	95	89	87	85.0
	Minimum	56	52	55	56	57	60	64	63	64	61	61	66	62	55	57	60	68	64	67	61	50	53	60	63	58	66	58	57	63	66	58	60.0
Iowa Falls	Maximum	79	82	85	86	83	78	78	83	83	83	77	70	77	79	82	82	85	86	83	78	72	74	83	87	86	83	81	88	90	85	85	81.7
	Minimum	51	49	52	58	54	63	63	57	56	54	57	63	57	53	59	60	65	63	68	60	45	55	62	62	62	57	58	59	67	70	46	58.2
Little Sioux	Maximum	85	89	90	92	91	80	89	90	83	89	76	75	84	87	88	78	90	94	84	85	80	88	92	93	94	90	94	95	88	91	88	87.5
	Minimum	47	52	57	64	67	67	62	61	58	53	62	63	53	50	64	61	64	70	64	63	45	58	66	64	63	61	62	68	67	65	57	60.6
Marshalltown	Maximum	79	86	88	90	84	80	78	88	89	89	78	75	82	84	88	86	89	94	84	81	78	79	89	92	91	87	86	92	95	84	87	85.5
	Minimum	54	54	58	59	61	65	63	59	61	61	62	65	61	56	61	62	69	68	67	63	49	58	63	61	65	61	59	60	67	72	55	61.4
Olin	Maximum	78	83	87	88	90	89	78	88	93	90	83	85	83	84	82	86	85	93	81	81	75	81	84	90	95	86	83	85	94	87	88	85.6
	Minimum	55	49	53	52	53	58	64	64	60	58	58	60	60	52	54	57	68	61	68	59	48	48	58	59	72	61	53	54	57	65	54	57.8
Sioux City	Maximum	81	86	87	91	86	76	87	89	83	88	74	73	78	85	87	81	88	91	85	81	76	84	88	89	86	86	87	91	84	89	82	84.5
	Minimum	53	53	63	65	69	65	59	68	59	55	61	62	60	52	67	68	67	70	67	59	49	61	67	65	66	61	66	68	69	66	60	62.6
Southern Division																																	
Albia	Maximum	82	87	88	90	93	76	82	90	93	94	77	84	85	87	89	89	92	94	78	84	80	85	88	93	96	92	88	94	95	84	92	87.8
	Minimum	52	53	58	58	60	65	65	56	65	63	66	65	61	55	62	63	65	69	65	64	49	59	59	62	61	62	59	61	66	66	60	61.1
Atlantic	Maximum	----	87	90	91	91	89	78	85	87	87	76	73	81	85	85	79	88	92	84	81	77	82	85	88	91	88	88	90	89	84	89	85.3[a]
	Minimum	----	52	54	55	60	60	64	57	62	58	66	65	60	53	66	63	64	69	66	64	47	59	63	58	64	62	59	67	62	62	56	60.6[a]
Burlington	Maximum	74	82	86	86	90	87	83	86	90	89	82	88	84	81	86	90	90	90	84	78	78	82	88	91	93	86	86	90	95	92	86	86.2
	Minimum	57	56	60	61	63	66	68	66	67	65	70	67	64	60	61	62	69	67	68	66	57	59	60	65	65	68	59	59	66	69	65	63.7
Columbus Jct.	Maximum	74	80	83	84	87	84	79	83	88	87	80	84	81	79	82	87	83	87	82	77	73	77	84	89	90	84	81	87	94	89	83	83.3
	Minimum	52	50	54	54	55	65	65	64	65	63	65	64	62	56	56	60	67	65	65	63	51	54	58	61	59	67	57	56	60	68	61	60.1
Corning	Maximum	80	89	81	86	86	75	80	83	92	88	78	75	83	85	86	83	85	94	80	81	80	82	80	89	91	87	93	90	89	92	87	84.8
	Minimum	48	51	55	62	61	65	65	53	61	58	62	65	64	55	52	64	64	70	68	64	45	60	68	60	63	62	67	66	60	69	58	60.8
Corydon	Maximum	80	86	89	90	93	80	79	90	93	90	79	83	84	85	86	86	87	94	80	80	80	75	92	88	93	88	86	91	92	83	90	86.2
	Minimum	53	53	55	55	61	67	65	56	66	61	64	61	61	57	62	61	65	69	68	64	50	60	59	60	61	63	61	64	65	65	60	61.0
Fairfield	Maximum	77	84	87	91	93	84	84	86	92	91	77	87	83	82	87	91	90	92	80	78	77	83	87	92	94	88	86	90	97	93	90	86.9
	Minimum	53	51	53	55	55	61	66	58	64	61	66	66	62	55	57	61	67	67	64	63	50	56	58	62	58	64	57	57	62	66	60	59.8
Keokuk	Maximum	75	81	85	88	90	85	82	85	92	90	78	88	84	82	85	87	90	92	88	79	75	81	85	90	91	89	85	87	94	93	89	86.0
	Minimum	56	56	60	62	63	70	68	63	64	68	70	67	65	61	63	66	71	68	69	66	57	59	60	65	67	68	61	61	66	71	68	64.5
Lamoni	Maximum	88	87	92	93	93	78	76	88	90	89	80	77	82	86	84	83	84	92	85	79	76	81	83	87	91	87	88	89	91	86	91	85.5
	Minimum	52	53	54	54	58	65	65	58	63	63	63	64	60	55	62	63	63	69	68	63	51	56	59	60	62	64	61	64	65	63	62	60.7
Sigourney	Maximum	77	86	88	88	91	83	79	87	92	91	78	84	84	85	85	87	89	91	76	79	75	82	87	90	96	91	87	91	97	87	90	86.2
	Minimum	56	53	56	57	58	62	64	57	64	64	62	66	61	55	61	61	66	67	64	62	50	56	57	62	59	65	58	57	64	67	59	60.3
Thurman	Maximum	84	85	87	88	89	83	83	88	88	84	78	78	81	84	86	86	89	93	93	87	84	83	85	88	90	90	89	88	91	86	84	86.2
	Minimum	51	50	55	59	69	67	66	58	63	60	66	66	59	55	66	68	65	68	72	67	50	61	68	61	64	63	62	60	70	68	62	62.5
Winterset	Maximum	83	89	91	90	90	81	78	81	91	91	81	70	81	85	87	82	88	94	84	80	77	82	87	89	93	88	91	92	90	88	84	85.7
	Minimum	53	55	59	61	56	66	65	57	63	61	65	64	60	55	65	62	63	68	66	64	47	57	63	60	65	59	62	65	68	62	57	61.1
Omaha	Maximum	83	86	87	90	90	76	82	89	85	86	74	72	80	85	87	84	89	94	79	81	76	84	88	89	92	87	90	90	90	87	86	85.1
	Minimum	58	62	65	66	70	65	66	66	68	65	64	65	63	61	70	68	67	73	67	63	56	62	68	65	70	67	67	69	70	70	68	65.9

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

local twisters appeared at various places in these four counties at nearly the same time of day, the appearance being earlier in the southwest and later in the northeast. In Butler county, Dumont and Greene reported tornadoes, the one in Dumont occurring at about 4:30 p. m. It was about one mile in length, the damage was small, and no injuries occurred. A little later a tornado struck west of Greene and it is possible that it was a continuation of the one which passed over Dumont. Its direction was from the southwest to the northeast, and its path of destruction 2 miles long and about a half mile wide, the damage amounting to between $50,000 and $75,000. Several persons were slightly injured. At about 6:30 p. m. on the same day, a small tornado occurred at Carrville, which is about 15 miles northeast of Greene, and it is also possible that this was a continuation of the same tornado which may have lifted in the intervening distance. The following account of the Carrville tornado is from the Charles City Weather Bureau Office.

"The funnel-shaped cloud was clearly seen and gave warning of the approach of the storm, so that people had time to seek safety in cellars. No one was injured. The cloud was described as whitish in color. There were also reliable reports of two clouds coming together from the northwest and the southeast. There was a heavy rain before the storm and some afterward. There was considerable hail. The direction of the storm was from the west-southwest to east-northeast. Trees were blown and debris carried in all directions, but mostly toward the west or east, with most damage by the westerly wind. Trees with several trunks had the several members blown down in different directions. The path of greatest destruction was about 600 feet in width and one qaurter mile in length. The total damage is estimated at $25,000."

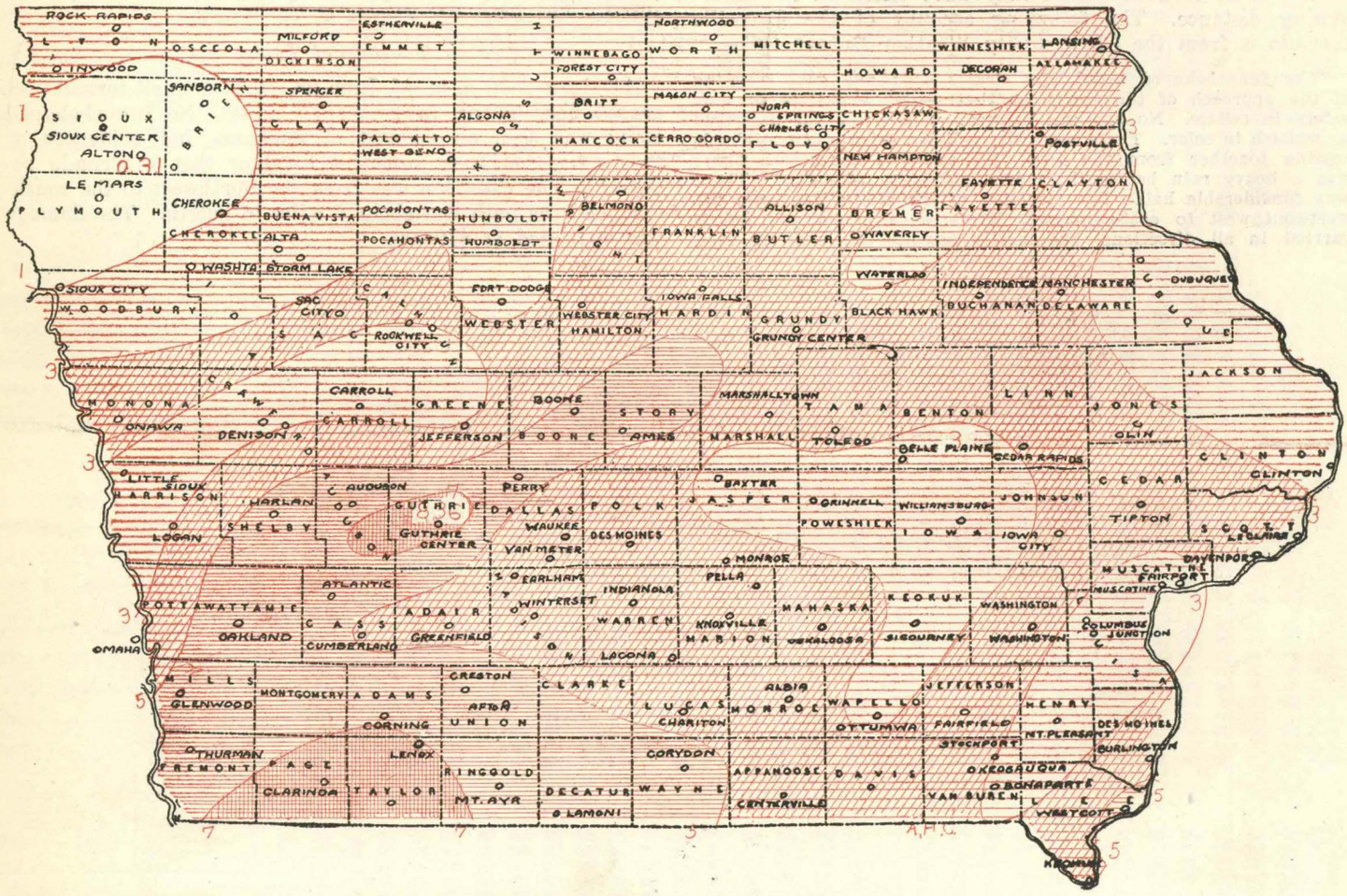
The total damage resulting from this series of tornadoes would probably be near $500,000 and about thirty persons were injured, of whom at least two were seriously injured, one resulting in a fatality as previously mentioned.

As a part of this same series of tornadoes, a small tornado was reported at Nashua, in Chichasaw county on the evening of the 11th, the direction of movement being from the southwest to the northeast. It was seen by a party of tourists at about 6:30 p. m., the funnel-shaped cloud being well defined and alternately swirling aloft and dipping to earth. The damage in this case was negligible and no persons were injured. The path was evidently short.

Tornado at Tabor

At about 2:00 a. m. of June 28, 1925, a small tornado occurred near Tabor, in Fremont county. No funnel-shaped cloud was seen on account of darkness, but evidences of twisting action were sufficient to show that a tornado occurred. The direction was from the northwest to the southeast, and the path was about 6 miles in length. The damage was estimated at $10,000.

TOTAL PRECIPITATION, AUGUST, 1925



Scale of Shades—In Inches

Less than 1	1 to 3	3 to 5	5 to 7	More than 7

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. XXXVI DES MOINES, IOWA, SEPTEMBER, 1925 No. 9

GENERAL SUMMARY

Abnormally high temperature prevailed during the first ten days of September. While no records for the state were broken, a large number of stations reported the highest maxima for the year, and several stations reported the highest of record for the month. After the first ten days there were numerous fluctuations in the temperature, with the two chief cool periods extending from the 11th to the 15th, and from the 20th to the 24th, but the last cool spell was less pronounced over the eastern portion of the state. The month closed with a rather warm period during the last four days. Light frost was reported from several stations on three days, but the damage, if any, was slight, though a temperature of 32 degrees was reached in the extreme northwest corner. The mean temperature for the state, 69.0° is 4.7° higher than the normal, and with the exception of 1897, when the mean was 70.9°, is the highest mean of record for September.

The precipitation was above normal in all divisions, and was rather uniform in all divisions, but the excess was due mostly to heavy to excessive downpours that occurred over portions of the northern and central divisions on the last day of the month. There were no damaging storms reported, but a severe local electrical storm occurred on the night of the 17th in Taylor county that damaged telephone and electric wires and poles, and a severe local wind storm damaged farm buildings considerably in Clay county. Hail damage was light, with several storms in the southeastern portion of the state on the 8th and 10th, and a rather severe storm occurred on the 16th in Cerro Gordo and Worth counties. Stones one and one-half inches in diameter were reported, but the heaviest hail fell where it could do little or no damage, so the total damage from storms was not over $5,000.

The intense heat during the first week caused corn to dry too rapidly, causing slight damage to the crop in some sections, but in the state generally the effect was beneficial, and by the end of the month the crop was practically safe from frost, and the prospects were that there would be no soft corn. The heat also injured pastures, but rains in the latter part of the month greatly benefited them, and at the end of the month they were generally in good condition. Fall plowing made good progress, but was temporarily suspended in small areas in the southeast portion on account of being too wet, and in the northwest portion where it was too dry in areas. Winter wheat was up in many fields and making good growth. Silo filling was completed in all sections of the state, but the frequent rains delayed clover hulling in the eastern portion and caused dirt roads to be in bad condition most of the time after the first week. F. L. D.

TEMPERATURE

The mean temperature for State, as shown by the records of 105 stations, was 69.0°, or 4.7° higher than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 67.5°, or 4.6° higher than the normal; Central, 69.1°, or 4.6° higher than the normal; Southern, 70.4°, or 4.8° higher than the normal. The highest monthly mean was 72.8°, at Keokuk, and the lowest was 64.4°, at Postville. The highest temperature reported was 105° at Inwood on the 2d and Cedar Rapids on the 4th, and the lowest was 32°, at Sanborn, on the 21st. The temperature range for the State was 73°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 112 stations, was 5.04 inches, or 1.39 inches more than the normal. By divisions, the averages were as follows: Northern, 4.76 inches, or 1.33 inches more than the normal; Central, 5.32 inches, or 1.63 inches more than the normal; Southern, 5.05 inches, or 1.22 inches more than the normal. The greatest amount, 9.13 inches, occurred at Washington, and the least, 1.54 inches, occurred at Storm Lake. The greatest amount in twenty-four consecutive hours, 4.65 inches, occurred at Belmond on the 30th.

RIVERS

Low stages prevailed on all rivers; the heavy rains that occurred during the month affected the stages very little. A slight rise occurred during the latter part of the first week and the first part of the second week on the Mississippi and all interior rivers, but the monthly range of stages did not exceed 1.5 feet at any station and on most interior rivers the range did not exceed 0.5 feet. Falling stages prevailed during the last half of the month.

MISCELLANEOUS PHENOMENA

Aurora: 19th, 20th, 21st, 23d, 24th.
Fog: 7th, 8th, 9th, 14th, 15th, 16th, 23d, 27th, 28th.
Frost (light): 20th, 21st, 23d.
Hail: 8th, 10th, 16th, 19th.
Halos (lunar and solar): 10th, 17th, 24th, 25th.

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
1890	59.3	—5.0	96	23	2.97	—0.68	4.85	1.36	------	7	13	10	7
1891	67.3	+3.0	104	28	1.33	—2.32	3.60	0.13	------	4	20	7	3
1892	64.7	+0.4	99	29	1.53	—2.12	4.15	0.16	------	4	16	8	6
1893	64.7	+0.4	102	18	2.34	—1.31	5.49	0.74	------	4	20	6	4
1894	65.1	+0.8	100	26	3.57	—0.08	7.43	0.67	------	8	15	10	5
1895	66.8	+2.5	103	22	3.03	—0.62	7.43	0.85	------	5	18	8	4
1896	58.5	—5.8	95	22	4.09	+0.44	9.96	1.82	------	10	11	9	10
1897	70.9	+6.6	106	26	2.04	—1.63	5.88	0.00	------	4	23	5	2
1898	65.3	+1.0	99	29	2.69	—0.96	8.45	0.41	------	7	16	9	5
1899	62.5	—1.8	104	15	0.93	—2.72	4.32	T.	------	4	16	9	5
1900	64.4	+0.1	99	26	4.98	+1.33	8.82	2.48	------	9	15	8	7
1901	63.3	—1.0	102	26	4.77	+1.12	13.62	1.71	------	9	13	9	8
1902	59.1	—5.2	88	23	4.35	+0.70	10.41	1.65	------	9	15	6	9
1903	60.8	—3.5	94	28	3.81	+0.16	8.79	1.42	------	10	14	6	10
1904	64.0	—0.3	94	30	2.78	—0.87	8.33	0.09	------	7	13	8	9
1905	65.8	+1.5	96	36	3.81	+0.16	13.18	0.50	------	8	14	8	8
1906	67.2	+2.9	100	27	4.16	+0.51	11.10	0.64	------	8	16	8	6
1907	62.8	—1.5	98	25	2.75	—0.90	6.06	1.38	------	8	15	9	6
1908	67.9	+3.6	98	20	1.20	—2.45	3.46	0.25	------	3	21	6	3
1909	62.4	—1.9	94	30	3.58	—0.07	7.34	1.39	------	9	14	8	8
1910	63.2	—1.1	99	30	3.59	—0.06	7.43	1.18	------	9	14	7	9
1911	65.8	+1.5	103	32	5.12	+1.47	13.73	1.19	------	10	11	9	10
1912	62.1	—2.2	104	24	3.98	+0.33	10.12	0.28	------	11	12	8	10
1913	64.5	+0.2	107	19	3.31	—0.34	7.44	0.45	------	9	15	8	7
1914	64.5	+0.2	99	30	7.88	+4.23	16.24	2.48	------	10	16	7	7
1915	63.7	—0.6	91	30	6.03	+2.38	12.45	2.88	------	11	11	8	11
1916	62.5	—1.8	98	21	3.89	+0.24	9.71	1.45	------	7	17	8	5
1917	62.6	—1.7	97	28	2.90	—0.75	8.68	0.39	------	7	15	7	8
1918	58.6	—5.7	93	20	1.87	—1.78	4.62	0.48	------	6	16	8	6
1919	67.5	+3.2	99	33	5.34	+1.69	11.82	1.49	------	8	16	6	8
1920	66.5	+2.2	98	24	3.30	—0.35	7.21	0.69	------	8	17	8	5
1921	67.3	+3.0	99	31	6.72	+3.07	11.95	1.72	------	11	14	8	8
1922	67.1	+2.8	103	31	2.03	—1.62	4.34	0.31	------	6	20	6	4
1923	64.2	—0.1	92	28	5.79	+2.14	12.14	1.88	------	11	14	8	8
1924	59.1	—5.2	91	25	3.13	—0.52	5.68	1.01	------	8	16	7	7
1925	69.0	+4.7	105	32	5.04	+1.39	9.13	1.54	------	9	14	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 September, 1925

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	52	67.6	+ 4.6	99	4	39	21	36	7.36	+4.04	3.37	0	8	16	10	4	se.	W. E. Laird
Allison (near)	Butler	1,044	13	67.4	+ 4.3	100	4	38	21	41	5.54	+2.04	1.80	0	9	14	11	5	ne.	J. A. Bell
Alta	Buena Vista	1,513	34	69.0	+ 6.3	103	3	38	21	35	3.58	+0.30	0.96	0	8	14	11	5	s.	D. E. Hadden
Alton	Sioux	1,305	20	67.6	+ 4.8	99	2	37	21	35	2.33	—0.63	0.66	0	9	11	12	7	s.	W. S. Slagle
Belmond	Wright	1,205	15	68.1	+ 4.5	98	3	38	21	36	8.07	+3.87	4.65	0	8	8	19	3	se.	Geo. P. Hardwick
Britt	Hancock	1,236	38	66.5	+ 4.1	98	4	37	21	35	7.39	+2.93	3.85	0	11	13	10	7	sw.	Jas. S. Ross
Charles City	Floyd	1,015	34	66.5	+ 5.5	97	4	40	21	36	3.59	+0.07	1.11	0	12	12	10	8	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	67.5	------	100	3	33	21	37	3.57	------	0.71	0	11	12	13	5	s.	J. E. Wirth
Decorah	Winneshiek	875	32	65.1	+ 3.5	97	2†	36	23	39	3.72	—0.39	1.12	0	9	20	4	6	se.	M. D. Whitney
Dubuque	Dubuque	698	52	67.8	+ 3.8	97	4	46	25	34	4.16	+0.29	1.36	0	14	8	8	14	s.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	67.0	+ 5.3	100	2†	35	21	39	7.50	+4.17	4.03	0	8	15	9	6	s.	A. O. Peterson
Fayette	Fayette	1,003	35	66.7	+ 4.4	98	4	40	21	46	4.38	+0.71	1.47	0	9	16	8	6	ne.	R. Z. Latimer
Forest City	Winnebago	1,226	31	66.6	+ 3.9	98	2†	38	21	35	5.82	+2.49	2.10	0	12	11	11	8	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	67.3	+ 3.0	99	4	38	21	43	5.50	+2.07	2.18	0	9	14	11	5	se.	L. H. Davis
Humboldt	Humboldt	1,095	37	69.3	+ 5.1	103	4	37	21	42	6.39	+3.12	4.22	0	5	16	8	6	se.	H. C. Snitkey
Independence	Buchanan	921	61	69.0	+ 5.1	98	3	41	21	37	6.22	+2.27	1.64	0	9	17	6	7	ne.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	68.6	+ 5.5	105	2	37	21	43	2.49	—0.30	1.26	0	9	19	5	6	e.	A. C. Hanson
Le Mars	Plymouth	1,224	29	68.4	+ 4.7	102	2	34	21	38	2.43	—0.80	0.93	0	11	19	8	3	sw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	66.6	+ 4.9	100	4	37	21	41	6.37	+3.56	2.19	0	8	13	11	6	ne.	Amer. Beet Sugar Co.
Milford (near)†‡	Dickinson	1,430	5	------	------	------	------	------	------	------	4.60	------	1.80	0	10	8	12	10	------	W. J. Hunt
New Hampton	Chickasaw	1,169	28																	A. F. Kemman
Nora Springs	Floyd	1,064	13	68.2	+ 3.8	99	4	37	21	41	6.34	+2.74	1.61	0	10	14	11	5	s.	Arthur Betts
Northwood	Worth	1,222	29	65.0	+ 4.0	95	2†	39	21	35	6.53	+3.00	1.95	0	10	13	9	8	se.	Chas. Dwelle
Oelwein	Fayette	1,036	1	67.8	------	97	2†	40	21	37	5.25	------	1.80	0	7	17	5	8	s.	John T. Ridler
Osage	Mitchell	1,163	----	66.2	------	98	2†	36	21	37	5.07	------	2.30	0	9	7	16	7	e.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	68.2	+ 4.7	100	5	36	21	39	3.73	+0.14	1.03	0	8	17	7	6	se.	F. E. Hronek
Postville	Clayton	1,180	26	64.4	+ 3.6	93	2†	39	21	35	3.99	+0.15	1.18	0	9	7	18	5	ne.	F. L. Williams
Rock Rapids	Lyon	1,358	26	67.0	+ 5.3	99	2	37	20	42	3.31	+0.72	1.37	0	9	22	3	5	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	67.8	+ 5.0	103	3	32	21	43	1.96	—1.24	0.85	0	8	17	10	3	se.	J. W. Dow
Sheldon	O'Brien	1,418	----	68.2	------	104	3	36	21	44	3.37	------	1.03	0	12	14	11	5	se.	Ross E. Forward
Sioux Center	Sioux	1,426	26	67.5	+ 4.5	102	2	35	21	36	2.20	—0.75	0.67	0	9	12	7	11	s.	J. de Ruyter
Spencer	Clay	1,319	11	68.1	+ 4.6	102	2†	35	21	43	7.37	+4.05	3.32	0	12	8	14	8	se.	E. W. Little
Storm Lake	Buena Vista	1,440	36	68.9	+ 4.9	99	3	38	21	35	1.54	—1.71	0.52	0	8	17	8	5	s.	Geo. H. Fracker
Washta	Cherokee	1,157	27	68.2	+ 4.7	99	4	36	21	40	2.52	—0.87	0.75	0	9	16	8	6	s.	H. L. Felter
Waterloo	Black Hawk	854	42	69.0	+ 4.9	101	4	41	21	44	6.13	+2.09	1.55	0	11	16	8	6	se.	R. B. Slippy
Waverly	Bremer	936	29	67.5	+ 4.1	99	4	41	21	42	5.99	+2.49	2.17	0	9	23	4	3	se.	D. H. Murphy
West Bend	Palo Alto	1,197	32	67.5	+ 4.1	99	3	35	21	38	5.04	+1.90	1.84	0	12	13	13	4	se.	Jos. Dorweiler
Means and extremes		------	----	67.5	+ 4.6	105	2	32	21	46	4.76	+1.33	4.65	0	9	14	10	6	se.	
Central Division																				
Ames	Story	926	48	69.6	+ 5.2	99	4	42	23	40	5.63	+1.96	1.73	0	9	16	7	7	ne.	Iowa State College
Audubon	Audubon	1,297	30	67.4	+ 3.7	96	3†	39	21	37	4.18	+0.42	1.61	0	9	15	9	6	sw.	Geo. Kibby
Baxter	Jasper	998	25	68.4	+ 3.8	100	4	42	21	33	4.98	+1.01	2.15	0	12	13	10	7	s.	Henry Geise
Belle Plaine	Benton	866	35	69.8	+ 5.4	104	4	47	24	43	5.59	+2.02	1.77	0	14	11	11	8	sw.	O. C. Burrows
Boone (near)	Boone	1,134	20	69.0	+ 5.2	100	3	39	23	41	4.13	+0.08	0.95	0	9	12	10	8	sw.	C. F. Henning
Carroll	Carroll	1,265	35	69.4	+ 5.7	99	3†	39	21	35	4.74	+1.27	1.08	0	9	17	5	8	se.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	70.0	+ 3.8	105	4	45	21†	50	4.56	+0.96	1.63	0	14	12	2	16	se.	J. T. Wurster
Clinton	Clinton	595	52	69.4	+ 4.2	100	4	48	25	40	7.27	+2.78	2.78	0	9	16	5	9	s.	Dr. A. P. Bryant
Davenport	Scott	580	54	70.2	+ 4.6	98	4	49	21	31	8.16	+4.71	2.89	0	14	7	10	13	e.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	71.0	------	101	4	46	21	41	8.73	------	2.90	0	15	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	68.9	+ 4.9	98	3	41	21†	35	5.20	+2.08	2.20	0	8	14	8	8	se.	V. L. Byers
Des Moines	Polk	861	47	70.4	+ 4.8	99	5	47	23	30	3.75	+0.22	1.61	0	12	8	9	13	sw.	U. S. Weather Bureau
Fairport	Muscatine	567	4	71.2	------	99	4†	49	21	40	6.89	------	2.18	0	14	15	7	8	e.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	68.6	+ 4.6	100	4†	37	21	39	5.02	+0.64	2.00	0	9	17	0	13	s.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	70.4	+ 5.5	101	4	43	21	36	7.09	+3.44	1.74	0	14	3	20	7	se.	Paul P. Meyers
Grundy Center	Grundy	976	34	67.8	+ 3.2	99	4	41	20†	52	7.03	+3.26	3.41	0	7	13	5	12	s.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	69.0	+ 4.4	97	4	41	21	37	3.07	—0.70	1.03	0	8	15	6	9	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	68.6	+ 4.8	96	5	39	22	41	3.52	—0.25	1.32	0	8	8	19	3	s.	Nels Bisgard
Iowa City	Johnson	733	65	69.1	+ 4.3	99	4	46	21	39	5.59	+1.71	2.31	0	14	9	9	12	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	67.4	+ 4.8	97	4	41	21	39	6.61	+2.81	2.74	0	9	13	7	10	e.	J. B. Parmelee
Jefferson	Greene	1,052	26	67.6	+ 4.0	99	5	40	23	37	2.97	—1.02	1.48	0	9	16	3	11	sw.	W. I. Lyon
Kalo	Webster	------	----	------	------	------	------	------	------	------	7.44	------	4.00	0	7	----	----	----	------	S. C. Fuller
Le Claire	Scott	576	25	------	------	------	------	------	------	------	7.52	+4.11	1.87	0	15	----	----	----	------	Margaret T. Dismey
Little Sioux	Harrison	1,040	20	71.0	+ 5.7	101	3†	38	23	40	4.67	+1.50	2.29	0	7	12	12	6	sw.	H. W. Kerr
Logan	Harrison	1,035	58	70.2	+ 4.5	99	2†	38	23	36	2.33	—0.83	0.90	0	6	17	7	6	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	67.0	------	98	4	42	21	45	6.36	------	1.59	0	11	10	3	17	e.	John Strodthoff
Marshalltown	Marshall	947	33	69.8	+ 4.4	102	4	44	21	36	6.31	+2.20	2.51	0	13	14	6	10	se.	C. C. Pigman
Monroe†‡	Jasper	922	13	71.0	+ 4.9	101	5	44	21	36	4.59	+0.49	0.93	0	13	17	3	10	s.	J. A. Dibel
Muscatine	Muscatine	544	64	------	------	------	------	------	------	------	7.77	+4.17	2.55	0	13	----	----	----	------	Wm. Molis
Olin	Jones	760	26	68.6[a]	+ 4.9	98[a]	2†	46[a]	21†	46[a]	6.27	+2.60	2.33	0	7	----	----	----	se.	Mrs. L. Stingley
Onawa	Monona	1,051	24	68.8	+ 4.2	95	2†	42	21	32	4.48	+0.97	2.10	0	7	18	5	7	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	69.0[c]	+ 4.5	100[c]	4†	40[c]	23	41[c]	3.95	+0.18	1.05	0	10	18	6	6	e.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	68.3[b]	+ 4.5	99[a]	4	38[b]	21	38[b]	2.75	—1.30	0.90	0	7	13	8	9	n.	A. W. McIsaac
Sac City	Sac	1,278	49	68.6	+ 4.9	100	4†	37	21	31	2.50	—0.86	0.89	0	7	13	9	8	s.	F. P. Kessler
Sioux City	Woodbury	1,135	36	68.8	+ 5.4	98	2	40	21	30	2.30	—0.61	0.71	0	5	10	12	8	se.	U. S. Weather Bureau
Tipton	Cedar	807	26	69.4	+ 4.6	96	4	46	21	39	5.34	+1.41	1.70	0	10	18	1	11	n.	Chas. H. Obye
Toledo	Tama	856	31	69.2	+ 4.1	102	4	43	21	42	6.52	+2.55	3.00	0	10	16	7	7	se.	I. F. Giger
Van Meter	Dallas	872	6	------	------	------	------	------	------	------	3.01	------	1.08	0	9	----	----	----	------	Calvin K. Smith
Waukee	Dallas	1,039	22	69.6	+ 4.8	100	4	42	21	35	4.17	+0.23	1.85	0	9	18	7	5	se.	Samuel F. Foft
Webster City	Hamilton	1,042	20	67.8	+ 3.8	100	4	38	23	41	8.51	+4.57	4.57	0	9	14	9	7	se.	Frank A. Bonebright
Williamsburg	Iowa	765	9	68.0	+ 3.6	98	4	44	21	40	5.92	+2.27	1.69	0	11	15	5	10	se.	Dr. F. C. Schadt
Means and extremes		------	----	69.1	+ 4.6	105	4	37	21	52	5.32	+1.63	4.57	0	10	13	8	9	se.	

Climatological Data for September, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	70.6	+ 5.5	101	3†	43	21	35	3.30	—1.08	1.02	0	11	13	7	10	sw.	S. R. Brown
Albia	Monroe	959	27	71.1	+ 5.7	104	4	44	21	35	5.32	+1.26	2.62	0	13	12	4	14	sw.	O. E. McBride
Atlantic	Cass	1,164	34	69.8	+ 4.8	98	3†	40	23	34	3.10	—0.31	1.33	0	7	15	8	7	sw.	Mrs. Martha E. Reynolds
Bonaparte	Van Buren	563	34	70.6	+ 4.7	98	3†	47	21	32	7.78	+3.65	3.40	0	9	14	5	11	e.	B. R. Vale
Burlington	Des Moines	544	29	71.6	+ 4.4	100	4	51	21	33	8.24	+4.32	2.06	0	14	13	7	10	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	70.7	+ 5.1	98	4†	46	21	35	6.63	+2.53	2.69	0	14	8	7	15	sw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	70.5	+ 5.7	100	3†	43	21	41	4.61	+0.67	1.98	0	7	10	11	9	s.	C. C. Burr
Clarinda	Page	1,009	35	70.6	+ 4.3	98	3	44	23†	33	6.43	+2.96	1.63	0	11	10	16	4	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	69.4	+ 3.3	98	4†	47	21	38	6.57	+2.91	3.27	0	12	7	16	7	sw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	69.6[d]	+ 4.7	97[c]	3	40[e]	25	37[e]	3.35	—0.57	1.32	0	5	----	----	----	sw.	Jerome Smith
Corydon	Wayne	1,101	32	70.6	+ 4.9	98	3†	45	21	34	7.46	+3.37	1.82	0	13	10	13	7	sw.	A. T. Gallagher
Creston	Union	1,312	20	69.0	+ 4.9	98	4	42	21	33	2.55	—1.45	0.76	0	10	18	5	7	sw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26	----	----	----	----	----	----	----	1.90	—1.48	0.62	0	6	----	----	----	s.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	69.9	+ 5.8	100	3†	40	23	39	2.00	—1.69	0.67	0	9	21	5	4	sw.	Geo. Phillips
Fairfield	Jefferson	780	41	70.6	+ 5.0	103	4	46	21	37	5.63	+2.00	2.65	0	8	11	7	12	w.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	70.8	+ 4.1	98	3†	42	23	32	3.14	+0.46	1.30	0	9	15	8	7	se.	Dr. Geo. Mogridge
Indianola	Warren	972	34	70.6	+ 5.0	100	4	44	21	41	3.54	—0.19	0.86	0	11	12	13	5	se.	Seth F. Shenton
Keokuk	Lee	614	54	72.8	+ 5.3	100	4	52	21	28	6.99	+3.13	2.15	0	10	7	8	15	ne.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	69.2	+ 3.4	100	5	52	1†	36	8.42	+4.22	4.00	0	13	10	8	12	se.	J. H. Landes
Knoxville	Marion	920	30	70.5	+ 4.7	103	4	44	21	40	3.94	—0.20	1.39	0	10	13	6	11	ne.	W. J. Casey.
Lacona	Warren	824	26	----	----	----	----	----	----	----	3.70	—0.66	1.20	0	16	6	17	7	------	J. B. Alter
Lamoni	Decatur	1,123	18	68.9	+ 4.2	96	4†	44	21	32	6.85	+2.84	2.00	0	14	13	9	8	sw.	F. S. Parks
Lenox	Taylor	1,250	30	70.0	+ 4.3	100	3	42	21	34	4.01	—0.20	1.50	0	10	13	10	7	ne.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	69.2	+ 3.8	98	4	43	21	31	6.09	+2.14	1.91	0	13	12	8	10	s.	Alex Maxwell
Mt. Pleasant	Henry	729	44	71.2	+ 5.1	101	4	47	21	42	7.37	+3.84	2.98	0	13	11	8	11	ne.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	68.4	+ 3.3	99	3	39	23	37	2.54	------	0.96	0	9	19	2	9	s.	M. E. Gray
Oskaloosa	Mahaska	835	49	69.5	+ 4.6	99	4	44	21	34	3.88	+0.48	0.98	0	13	14	5	11	se.	Roy R. Robinson
Ottumwa	Wapello	649	30	72.2	------	103	4	47	21	41	5.72	+1.87	2.00	0	13	13	6	11	se.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	----	----	----	----	----	----	----	----	2.86	------	1.20	0	7	11	14	5	s.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	70.0	+ 4.9	102	4†	45	21	37	6.33	+2.64	1.85	0	11	11	9	10	ne.	W. E. Utterback
Stockport	Van Buren	747	23	70.4	+ 5.4	101	4†	47	21	38	7.47	+3.38	3.46	0	14	13	5	12	ne.	C. L. Beswick
Thurman	Fremont	975	28	70.5	+ 4.8	97	3	40	21	37	3.34	—0.92	1.62	0	6	7	17	6	sw.	C. R. Paul
Tingley	Ringgold	1,275	----	69.8	------	98	4	41	22	32	5.11	------	1.56	0	10	11	9	10	ne.	James A. VerPloegh
Washington	Washington	769	43	70.5	+ 5.3	101	5	45	23	31	9.13	+5.75	3.75	0	11	15	0	15	e.	D. D. Sherman
Wescott (near)	Lee	523	3	71.7	------	100	4†	50	22	36	6.73	------	1.92	0	9	16	5	9	s.	Lester J. Larson
Winterset	Madison	1,129	34	70.4	+ 4.9	100	3†	39	23	35	2.16	—1.59	0.54	0	10	18	6	6	sw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	70.9	+ 4.[illegible]	99	3	46	23	30	2.69	—0.34	1.02	0	13	13	7	10	sw.	U. S. Weather Bureau
Means and extremes	----------	------	----	70.4	+ 4.[illegible]	104	4	39	23	42	5.05	+1.22	4.00	0	11	13	8	9	sw.	
State means and extremes	----------	------	----	69.0	+ 4.[illegible]	105	2†	32	21	52	5.04	+1.39	4.65	0	10	13	9	8	se.	

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.

Haze: 1st, 2d.

Rainbows: 8th, 9th, 10th.

Thunderstorms: 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 14th, 16th, 17th, 18th, 19th, 20th, 21st, 22d, 26th, 29th, 30th.

PRESSURE, RELATIVE HUMIDITY, WIND AND SUNSHINE

Stations	Barometric Pressure, Inches (Sea Level): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	29.97	30.38	28	29.52	19	86	54	67	29	3	4,271	5.9	32	w	19	66	+ 4
Davenport	29.97	30.36	28	29.66	19	84	62	69	32	1	4,489	6.2	28	nw	8	50	—15
Des Moines	29.94	30.32	28	29.58	19	84	58	65	33	4	4,850	6.7	40	sw	19	57	— 5
Dubuque	29.96	30.36	28	29.57	19	85	59	69	28	4	3,823	5.3	25	se	30	53	— 6
Keokuk	29.96	30.33	28	29.70	9	82	61	67	32	4	4,370	6.1	44	w	10	57	— 9
Sioux City	29.94	30.28	30	29.45	19	82	57	59	23	3	7,630	10.6	61	w	19	63	0
Omaha, Neb.	29.94	30.24	28	29.55	19	80	61	65	32	5	4,606	6.4	34	nw	20	69	+ 4
Means and extremes	29.95	------	----	------	----	83	59	66	----	----	-------	6.9	----	------	----	59	— 4
	------	30.38	28	29.45	19	--	--	--	23	3	-------	----	61	w	19	----	----
Normals and records	30.02	------	26th	------	30th	83	--	64	---	28th	-------	7.2	----	------	7th	63	----
	------	*30.65	1909	§29.27	1878	--	--	--	§18	1921	-------	----	72	w	1872	----	----

*Dubuque. §Omaha. ‖Davenport. ‡Local mean time. †And other dates.

Daily Precipitation for September, 1925

Stations	Drainage Basin	Day of Month																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Totals
Northern Division																															
Algona	Des Moines					.23			.95			.10								.30	1.35		.32				.74				3.37	7.36
Allison (near)	Cedar					T.			1.52	.03		T.					.32		T.		.60		.55				.68	.03		.01	1.80	5.54
Alta‖	Raccoon								.60	.10		.17								T.	.40		.78				.45	.12			.96	3.58
Alton	Floyd					.16		.13	.53		T.	.33			T.				T.	.26		.06	.23				.14			.49		2.33
Belmond	Iowa								1.52										.02		.38	T.	.38				.70	.32		.10	4.65	8.07
Britt	Iowa					.07			.75			.03					.15		.03	.65	.87	T.	.15				.39	.45		T.	3.85	7.39
Charles City***	Cedar					T.			.99			T.					.13	.03	.09	.18	.02	.12	.11				.74	.06		.08	1.04	3.59
Cherokee	Little Sioux					.10	T.	.05	.62			.71			T.	T.			T.		.64	.09	.35				.74	.06		.08	1.04	3.59
Decorah‖	Mississippi					.10	.75		.05	.70			T.				.40				.17	.17					.29	.02		.65	.05	3.57
Dubuque***	Mississippi				.06	.03	.03		1.36	.01	.15	.25	.05		.04	T.			.02		.13		.18			T.	.26				1.12	3.72
Estherville‖	Des Moines					T.	1.03		.52	T.		.52								.90	.10		.10				.52	T.			1.33	4.16
Fayette	Mississippi						.11		.86	T.		.04								.03	.48		.29				.30				4.03	7.50
Forest City‖	Cedar					.04	.07		.26	.66		.03					.46	T.		.27	.92		.16				.53	.57			1.47	4.38
Hampton	Cedar					.07			1.26	.01							.01		T.		.27		.58				.22	.63			2.10	5.82
Humboldt	Des Moines								.60							T.					T.		.67				.75	.37		T.	2.18	5.50
Independence	Wapsipinicon					.11	.60		1.40			.08								T.	.67		.21				.78	.12			4.22	6.39
Inwood	Big Sioux					.01	.10		1.26		.30	.07								T.			.06				.64	.87			1.64	6.22
Lansing‖	Mississippi					.13	2.00			.81							.18	.05		.33	.14		.03				T.	.19		.34	.16	2.49
Le Mars	Floyd					.04		.25	.68			.07			.14				T.		.21	.23	.18				.16	.39			1.05	5.27
Mason City	Cedar					T.			.97								1.45			.29	.46		.18				.25	T.		.21	.17	2.43
Milford (near)	Little Sioux					.15			.51	.17	.36									.35	.30		.15				.65	.18		T.	2.19	6.37
New Hampton	Wapsipinicon																									.27				.54	1.80	4.60
Nora Springs	Cedar					.04			1.60								.95		.14	.46		.27					.81	.07		.39	1.61	6.34
Northwood	Cedar					.23			1.80								.30			.35	.55		.10				.70	.50		.05	1.95	6.53
Oelwein	Wapsipinicon					.15			1.10												.75		.40				.60	.45			1.80	5.25
Osage	Cedar					.02			1.04								.32			.48			.10				.70	.08		.03	2.30	5.07
Pocahontas	Des Moines								.83			T.							T.		.28	.03	.42				.82	.32		.02	1.01	3.73
Postville	Mississippi					.07	.20		.85	.04		T.					.20			T.	.30					.55		.60		T.	1.18	3.99
Rock Rapids	Big Sioux					.41	.30	.28		1.37				T.					.05		.03						.16			.65	.06	3.31
Sanborn	Floyd					.15		T.	.85												.10	.03	.13				.23			.43	.04	1.96
Sheldon	Floyd					.25		.03	1.03		.07	.52			T.				T.	.52	.01	.03	.12				.23	.02		.54	T.	3.37
Sioux Center	Floyd					.26		.09	.58		T.	.10			T.				T.	.36		.03	.32				.28			.18		2.20
Spencer	Little Sioux					.27		.03	1.13		.01	.24								1.12	.74	.04	.20				.27			2.50	.82	7.37
Storm Lake	Raccoon							T.				.11								.01	.06	T.	.52				.42	.06	T.	.16	.20	1.54
Washta	Little Sioux					.02		.07	.68						.07				T.		.61	.03	.53				.30			.21		2.52
Waterloo‖	Cedar					.90	.20		.05	1.30	.03	T.	T.					.06			.70		.47				.40	.47			1.55	6.13
Waverly	Cedar					.12			1.13	.01										.02	.94		.50				.60	.50			2.17	5.99
West Bend	Des Moines					.39	T.		.93	T.		.02							.05	.13	.73	.03	.24				.38	.30		.05	1.79	5.04
Central Division																															
Ames	Skunk								1.07	.24	T.	.04	.01		.05	.07			T.	T.	.52		.83				1.02	.05			1.73	5.63
Audubon	Nishnabotna								1.61	.18		.28			T.						1.05		.25				.60	.04		.15	.02	4.18
Baxter	Skunk				.08	.08			.17	.08	.05	.18			.45				T.	.40			.17				.80	.37			2.15	4.98
Belle Plaine	Iowa					.04			1.65	.04	.03	.45	T.		.28	.25			.07	.01	.25		.17				.54	.04			1.77	5.59
Boone‖	Des Moines								.46	.76	.17		.04			.07				T.	.53		.41					.74			.95	4.13
Carroll‖	Raccoon								1.08	.90	.09		T.			.04					.19		.59				.51	.34			1.00	4.74
Cedar Rapids‖	Cedar								.03	1.63	.08	.20	.31	.02		.21				.05	.17		.12	.03			.22	.09			1.40	4.56
Clinton	Mississippi						.06		1.51	.01		2.78			*	.86			.04								.83				1.18	7.27
Davenport***	Mississippi					.06	T.		1.47	.01	1.43	1.47	.12	.19	1.07	.03			T.		.10	T.	.02			.12	.66	T.			1.41	8.16
Davenport (No. 2)	Mississippi					.05			1.60	.01	.03	2.90	.22	.14	.23	1.12			T.		.13		.05				.87	.01			1.35	8.73
Denison	Missouri								2.20	.03					T.				T.		.45	T.	.43				.43	.22		.90	.54	5.20
Des Moines***	Des Moines				T.	T.		T.	1.61	.10	.05	.21			.02				T.	.37	.29		.10			.05	.60	.02			.33	3.75
Fairport	Mississippi						.39		.84		.08	2.18	.34	.19	.37	.50					.20		.03	.05			.44	.12			1.16	6.89
Fort Dodge‖	Des Moines								.40	.39						.09				.04	.20		1.02				.44	.44		T.	2.00	5.02
Grinnell	Iowa				1.06				1.74	.04		.34	.01	.02	.54	.38			.01		.37		.16				.70	.10			1.62	7.09
Grundy Center	Cedar				T.	T.			1.23	.08										.71			.41				.81	.38			3.41	7.03
Guthrie Center	Raccoon					T.			.80	.15		.06				.22					1.03		.20				.52				.09	3.07
Harlan	Nishnabotna								1.32	.20		.05									.80		.25				.45	.10		.35		3.52
Iowa City‖	Iowa						.06			2.31	.01	.78	.34	.01		1.17				.02	.31		.02	.04			.28	.07			.17	5.59
Iowa Falls‖	Iowa								.06	1.24				.04		.03				T.	.97		.63				.66	.24		T.	2.74	6.61
Jefferson	Raccoon								1.48	.08		.07			.04				T.		.48	T.	.29				.37	.04		T.	.12	2.97
Kalo‖	Des Moines									1.17						.15					.67		.68				.47	.30			4.00	7.44
Le Claire‖	Mississippi						.09		T.	1.87	.05	1.15	.94	.04		1.18	.01			.06	.04	.02		.04			.37	.56			1.10	7.52
Little Sioux	Little Sioux							T.	2.29	.02					.06				T.	.30		.25				.55			T.	1.20	4.67
Logan	Missouri								.90	.12											.56		.20				.25	.30				2.33
Maquoketa	Maquoketa					.22	.31		1.15	.04		1.59	T.			.55			.02	.12			.15				.86				1.35	6.36
Marshalltown‖	Iowa					T.	.13		T.	.80	.04	.02	.04			.40				.02	.79		.26	.01			.69	.60			2.51	6.31
Monroe	Des Moines					.03	T.		.93	.21	.08	.56	.04		T.	.23					.74		.14			T.	.91	.23		.07	.42	4.59
Muscatine‖	Mississippi						.06			1.08	.05	1.05	2.55	.35		.83					.20		.08	.10			.36	.46			.60	7.77
Olin	Wapsipinicon					T.	.12		1.40		T.	.85				.75							.30				.52				2.33	6.27
Onawa	Missouri					T.		T.	2.10						.79						.25		.75				.25	.14		T.	.20	4.48
Perry	Raccoon								1.05	.20	.01	.01			T.		.02		T.		.68	T.	.48				.41	.05			1.04	3.95
Rockwell City	Raccoon								.90						T.	.25					.25		.60				.50			.15	.10	2.75
Sac City	Raccoon								.89						.02						.48		.48				.41	.09		.13		2.50
Sioux City***	Missouri					.02		.25	.46						.27				T.	.48		.20				.50			.12	T.	2.30
Tipton	Cedar								1.23	.01	.02	1.70	.02		.75				.03				.21					.01			1.36	5.34
Toledo	Iowa					.13			.82	.03	T.	.20				.40			T.	.04	.50		T.				.90	.50			3.00	6.52
Van Meter‖	Raccoon								.03	.93	.10		.18								1.08		.12				.40	.12			.05	3.01
Waukee	Raccoon					.09			1.85	.13	T.	.14		T.	.03	T.			T.		1.25		.16				.46				.06	4.17
Webster City	Des Moines								1.37	.05					.05		.05		T.		.83		.73				.80	.06			4.57	8.51
Williamsburg	Iowa								1.69	.04	.06	.60	.22		.58	.23			.02		.37						.83				1.28	5.92

Daily Precipitation for September, 1925—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	
Southern Division																															
Afton	Grand							T.	.12	.08	.08	1.02	.08		T.	.03			T.		.72		.36				.50	.23		.08		3.30
Albia‖‖	Des Moines						T.	T.	T.		.09	.57	2.05	.45		.46	.01			.10	.68	.05	.04	.14			.61	.07				5.32
Atlantic‖‖	Nishnabotna						T.		T.	.52	.15		.11		T.				T.		1.33		.19				.31			.49	T.	3.10
Bonaparte	Des Moines					T.			T.		.32	3.40	1.40	.08	.09				T.		.60		T.			T.	.41	.10			1.38	7.78
Burlington‖‖	Mississippi									.17	.23	1.56	.53	2.06	.73	1.04				.01	.45	.25	T.	.01			.44	.53			.23	8.24
Centerville	Chariton					T.	T.		.08	.03	.64	2.05	.30	.05	.32	.02			.12		.74		.37			T.	.63	.11			1.17	6.63
Chariton (near)	Chariton						T.		T.	T.	T.	1.50	.48						.15		.75	T.	.20	T.			.48				1.05	4.61
Clarinda‖‖	Nodaway							.17	.94		.08	.25	.71						1.63		1.33		.55	.34			.40	.03				6.43
Columbus Jct.	Iowa								.42	.01	.11	2.88	.39	.11	.20	.78					.32						.84	.01			.50	6.57
Corning	Nodaway						.10			T.	T.	.89									1.32		.54				.50					3.35
Corydon	Chariton								.51	.02	.18	1.82	1.57	.13	.02				.19		1.04		.21				.53	.07			1.17	7.46
Creston‖‖	Missouri							.05	.07		.08	.15	.86								.74		.12	.16			.40	.05				2.68
Cumberland (near)	Nodaway						T.		T.	.22	T.	.16			T.				T.		.62	T.	.26				.39			T.	.25	1.90
Earlham	Des Moines					.17			.16	.06	.38	.01			T.						.67	T.	.10				.27				.18	2.00
Fairfield	Skunk								T.	.07	.20	2.65	.3		1.15	.05					.64										.53	5.63
Glenwood	Missouri							.07		.27		.32	.04		.04				.10		1.30		.40				.60			T.		3.14
Indianola	Des Moines						T.		.04	.13	.04	.44	.02		.07	T.					.52		.11				.59	.72			.86	3.54
Keokuk***	Mississippi							T.	.18	.37	.90	.59	T.	1.02	T.	T.			T.		.56	T.	.02			.31	.89	T.			2.15	6.99
Keosauqua	Des Moines						T.	T.	T.	.03	.40	3.50	.50	.08	.05	.07			.03		.64		.06	T.		T.	.75	.10			2.21	8.42
Knoxville	Des Moines						T.		.05	.04	.08	.58			T.	.55			T.		.38		.14				.68	.05			1.39	3.94
Lacona	Des Moines				.01		.01	.01	.01	.01	.01	1.02	.01	.01	.28				.01		.42		.16				.52	.01			1.20	3.70
Lamoni‖‖	Grand						.07	.18	.25		.01	.89	2.00	.29					.17	.04	1.27		.02	.50			.86	.30				6.85
Lenox	Missouri						T.	.10		.05	.05	1.00	.08						.15		1.50		.68				.35	.05				4.01
Mt. Ayr	Grand						.04	.10	.09	T.	.11	1.91	.45						.55		1.17	T.	.52				.51	.14		.24	.26	6.09
Mt. Pleasant	Skunk								.02	.43	.32	2.98	1.30	.05	.72	.06			T.		.50		.04			T.	.41	.06			.48	7.37
Oakland	Nishnabotna							.14	.25	.20		.18			.06						.96		.42				.30			.03		2.54
Oskaloosa	Des Moines						T.		.14	.06	.07	.91	.27	.44	.13	.12			T.		.57		.08			T.	.67	.02			.40	3.88
Ottumwa	Des Moines								.06	T.	.05	2.00	.23	.43	.47	.33			.22		.79		.15			T.	.46	.04			.49	5.72
Red Oak (near)	Missouri						T.		.10		.08	.50							.10		1.20	.39					.49				T.	2.86
Sigourney	Skunk				T.		T.		.37	T.	.20	1.34	.18	.74	1.53	.32			T.		.58		.07				.49				.51	6.33
Stockport	Skunk					.03		T.	T.	.40	.25	2.82	.64	.12	.36	.05			.01		.69		.08			T.	.66	.10			1.23	7.47
Thurman	Missouri						T.			.08	T.	.47	T.		T.	T.			.21		1.62	T.	.32				.64			T.	T.	3.34
Tingley	Platt						T.	T.	.10	T.	.08	1.56	.25		T.				.23		1.31		.84				.48	.23		.03		5.11
Washington	Skunk								1.06	T.	T.	3.75	.33	.88	T.	.60			T.		.78		.04				.72	.06			.91	9.13
Wescott (near)	Mississippi								.35		1.92	.71		.90	.10						.62						1.18		.15		.80	6.73
Winterset	Des Moines							.01		.03	.10	.07	.54			.09			T.		.33		.17				.54				.28	2.16
Omaha, Neb.***	Missouri						.11	.04	.11	.19		.07				.09	T.		.04	1.02		.18	.19			.05	.38			.22	T.	2.69

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.

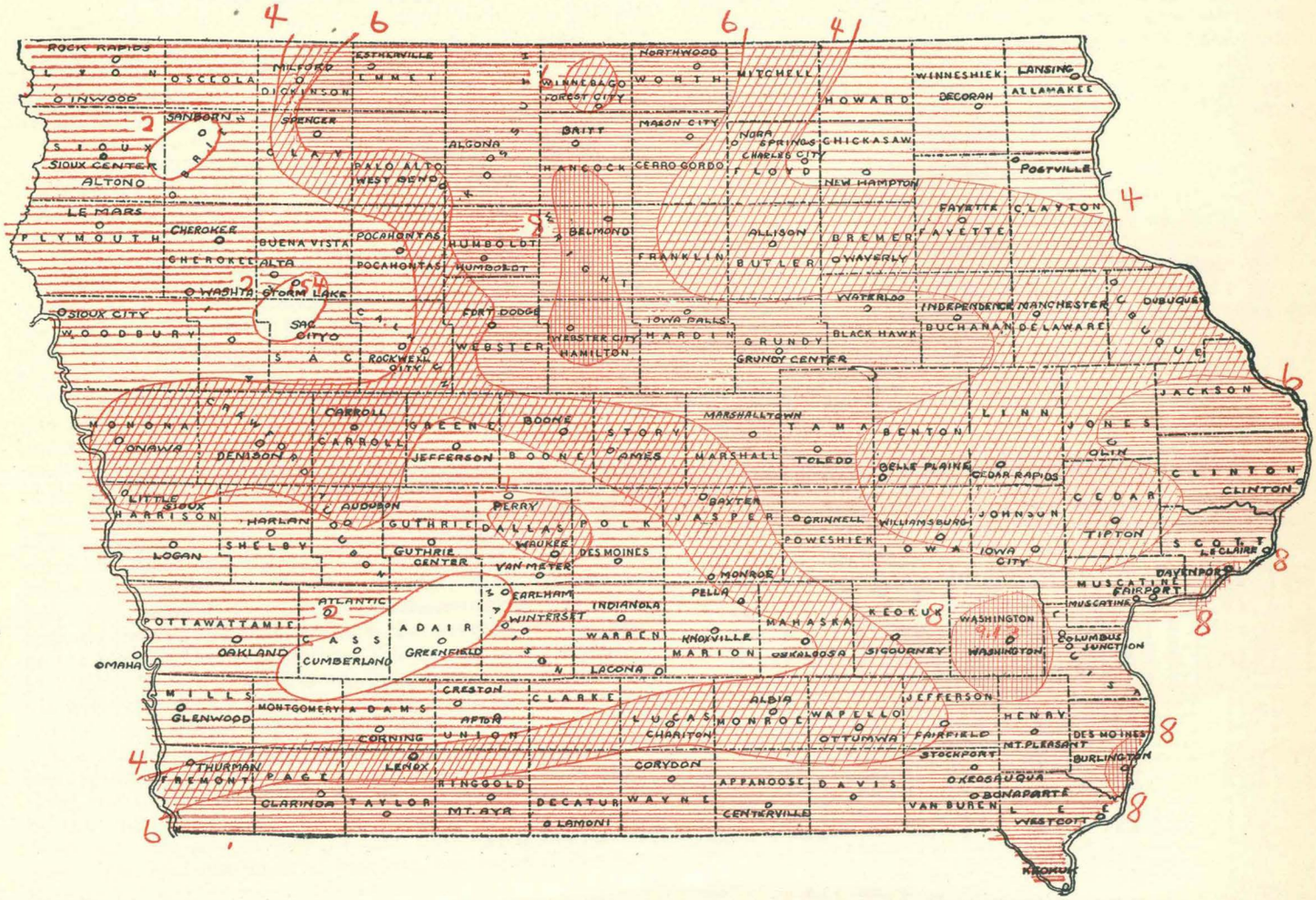
T. Precipitation is less than .01 inch rain or melted snow.

Daily Maximum and Minimum Temperature for the Month of September, 1925

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	Maximum	88	97	95	99	89	85	87	77	77	80	79	72	75	75	75	85	93	90	92	85	61	60	70	73	69	61	66	75	76	76	79.4
	Minimum	53	67	63	68	63	66	60	64	66	60	56	43	47	55	54	58	57	56	65	53	39	45	43	44	50	51	55	50	61	58	55.7
Alta	Maximum	95	97	103	98	98	87	90	79	84	83	64	78	80	70	73	90	94	82	95	69	62	58	73	78	70	59	76	85	81	70	80.7
	Minimum	64	70	68	69	70	64	63	64	65	61	57	44	48	54	55	59	71	59	68	51	38	43	43	51	47	55	54	53	62	52	57.4
Alton	Maximum	92	99	97	97	94	86	86	76	79	81	69	70	75	73	72	87	89	80	94	73	59	59	72	73	72	63	68	81	81	74	79.0
	Minimum	63	71	62	67	70	63	58	65	64	58	55	42	45	50	54	63	70	58	69	51	37	45	40	47	45	50	55	53	63	53	56.2
Belmond	Maximum	87	97	98	97	94	91	89	76	80	81	70	73	77	75	74	84	94	81	93	85	62	61	72	78	68	62	66	78	78	72	79.8
	Minimum	57	63	62	64	70	68	58	65	65	59	65	45	46	53	57	57	69	60	69	51	38	45	42	47	50	52	56	50	50	60	56.4
Charles City	Maximum	85	96	94	97	89	86	86	72	78	80	64	70	74	75	74	81	94	85	92	69	60	60	70	73	66	61	64	75	78	70	77.3
	Minimum	52	62	65	61	70	68	61	64	63	60	53	46	45	54	57	56	66	62	69	45	40	46	43	48	48	52	52	47	59	58	55.7
Decorah	Maximum	83	97	97	94	89	83	83	73	77	79	71	69	78	72	72	78	91	81	90	84	58	61	68	72	65	60	64	73	83	67	77.1
	Minimum	46	59	64	57	66	63	61	63	61	55	54	47	39	47	49	51	64	58	61	54	39	44	36	45	44	51	56	46	54	58	53.1
Dubuque	Maximum	85	95	91	97	85	84	86	71	79	77	64	70	73	75	72	77	91	84	92	80	62	61	69	75	64	66	68	74	78	66	77.0
	Minimum	55	62	68	63	72	68	66	66	65	62	57	56	51	54	57	56	66	69	65	52	47	49	54	53	46	54	56	53	57	61	58.7
Forest City	Maximum	83	98	97	98	88	87	85	78	78	80	72	69	75	76	73	84	93	81	92	80	58	61	72	71	68	61	63	76	73	70	78.0
	Minimum	56	65	64	63	70	67	60	63	64	58	57	45	46	50	53	55	70	57	57	52	38	45	40	48	47	50	56	49	57	58	55.3
Independence	Maximum	84	96	98	96	94	91	84	85	82	73	71	71	72	73	74	80	93	94	94	87	67	67	68	73	73	65	68	76	80	77	80.2
	Minimum	52	64	67	59	70	67	65	63	63	69	58	52	49	54	57	52	63	66	67	62	41	45	48	50	45	51	59	58	56	61	57.8
Inwood	Maximum	97	105	101	101	95	91	82	75	83	83	67	71	78	77	74	88	90	79	97	78	60	69	78	79	75	62	69	83	82	74	81.4
	Minimum	64	72	58	68	69	65	64	64	60	56	52	40	48	50	52	62	69	57	65	49	37	46	42	55	45	52	54	51	62	49	55.9
Mason City	Maximum	85	99	96	100	89	87	85	85	72	82	75	72	75	75	76	82	94	81	93	85	61	63	70	72	66	60	64	76	76	71	78.9
	Minimum	48	64	60	59	68	70	68	63	62	57	54	44	41	50	50	51	67	56	67	50	37	44	40	45	47	50	57	45	58	59	54.4
Milford (near)	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----------
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----------
New Hampton	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----------
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----------
Northwood	Maximum	84	95	92	95	86	83	83	73	77	80	65	68	72	74	74	79	90	81	89	82	62	61	69	62	61	59	66	73	73	67	75.8
	Minimum	54	60	65	63	65	64	60	62	62	58	55	43	46	51	53	55	66	56	61	50	39	45	43	46	49	47	54	46	56	54	54.3
Pocahontas	Maximum	90	99	97	99	100	87	88	79	80	80	69	74	77	75	70	88	94	80	95	86	72	60	72	74	70	61	70	81	83	72	80.7
	Minimum	55	60	63	64	70	64	66	64	66	60	55	41	44	53	55	58	71	59	67	53	36	44	40	49	45	45	54	50	60	59	55.7
Postville	Maximum	81	93	88	93	82	82	81	73	77	75	70	66	70	72	71	77	91	83	90	85	56	58	69	71	65	58	65	74	78	70	75.5
	Minimum	50	64	64	58	66	52	61	61	60	58	52	48	41	46	48	62	65	60	60	51	39	42	44	43	43	48	55	45	53	58	53.4
Central Division																																
Belle Plaine	Maximum	89	101	99	104	101	93	92	78	77	73	68	67	77	69	79	86	97	83	95	84	64	63	72	79	70	64	76	83	85	75	81.4
	Minimum	51	62	66	61	69	70	67	64	64	60	55	54	55	55	60	55	67	69	66	57	45	48	50	47	54	53	53	52	58	57	58.1
Boone	Maximum	90	96	100	99	98	92	90	82	78	83	68	74	77	73	63	87	96	85	94	86	64	60	72	78	69	70	75	82	83	77	81.5
	Minimum	49	62	63	61	65	67	58	65	65	57	57	47	47	50	57	57	71	65	71	57	42	46	39	43	49	54	56	51	62	63	56.5
Carroll	Maximum	93	98	99	98	99	92	93	81	79	81	72	75	79	72	73	87	95	86	93	86	63	62	74	77	71	64	75	83	82	75	81.9
	Minimum	58	70	65	67	72	66	61	63	63	61	55	44	47	53	57	58	73	61	65	53	39	44	42	49	45	52	53	51	61	58	56.9
Cedar Rapids	Maximum	87	103	98	105	98	96	95	83	83	78	73	73	79	79	73	86	99	90	98	85	69	65	72	83	74	69	75	89	81	77	83.8
	Minimum	47	53	65	55	68	68	65	67	59	57	56	54	52	53	56	50	64	66	67	56	45	47	50	45	47	51	58	48	56	62	56.2
Davenport	Maximum	88	94	96	98	94	93	89	80	88	82	64	66	73	68	65	79	93	86	92	81	63	63	69	76	67	69	74	78	81	68	79.2
	Minimum	61	65	72	67	76	74	69	65	66	61	58	58	56	55	59	58	67	73	70	57	49	51	54	54	52	54	60	57	58	60	61.2
Des Moines	Maximum	91	96	96	98	99	91	89	82	77	77	65	71	76	66	65	85	95	82	93	70	62	57	71	76	68	74	78	85	83	76	79.8
	Minimum	61	69	73	71	75	74	70	66	65	63	56	52	58	58	59	57	73	71	70	52	47	47	52	54	54	58	56	61	60	60	61.0
Ft. Dodge	Maximum	91	98	99	100	100	90	89	82	81	84	71	75	79	78	79	87	96	86	95	86	66	60	73	78	71	65	73	82	81	75	82.3
	Minimum	52	65	62	61	69	64	58	64	65	57	55	43	42	52	54	56	69	58	68	52	37	42	40	48	46	49	51	48	60	58	54.8
Grinnell	Maximum	91	98	100	101	100	93	93	88	80	73	70	70	77	73	65	84	95	94	93	88	65	63	70	77	73	68	76	83	85	79	82.2
	Minimum	58	64	69	65	69	71	66	64	63	59	56	53	55	54	56	55	66	69	69	61	43	46	47	49	48	52	58	53	58	61	58.6
Guthrie Center	Maximum	92	93	96	97	95	92	89	85	80	82	72	73	77	71	72	85	95	89	92	89	62	58	71	76	71	68	76	84	84	77	81.4
	Minimum	55	69	66	68	73	69	60	62	63	59	55	46	47	54	55	57	58	64	70	54	41	44	42	48	46	52	52	53	62	58	56.7
Iowa City	Maximum	87	96	96	99	97	93	89	78	85	76	66	65	75	67	68	82	92	83	92	80	64	63	70	76	68	66	74	80	82	73	79.4
	Minimum	51	58	67	60	69	73	66	64	62	61	59	56	56	55	57	55	64	70	68	60	46	50	52	49	49	54	60	52	58	62	58.8
Iowa Falls	Maximum	85	96	93	97	93	88	85	80	76	77	73	69	73	72	70	82	95	84	93	89	61	58	69	75	67	62	68	76	81	75	78.7
	Minimum	49	63	62	58	67	66	57	65	66	60	55	47	45	51	57	57	69	62	70	58	41	46	42	47	49	52	50	48	59	61	56.0
Little Sioux	Maximum	96	100	101	101	100	92	95	89	84	83	69	78	80	67	77	92	98	90	98	87	66	62	78	81	77	66	79	89	89	79	84.8
	Minimum	64	70	65	68	72	64	63	64	64	62	57	41	43	55	54	62	70	63	72	53	41	46	38	44	45	53	47	59	65	56	57.3
Marshalltown	Maximum	90	98	99	102	99	90	90	80	75	77	69	72	77	71	67	86	95	84	94	85	63	57	76	78	70	64	75	81	83	74	80.5
	Minimum	55	66	69	66	74	72	65	66	66	62	57	50	53	54	58	57	70	67	71	58	44	45	47	50	49	53	58	52	59	61	59.1
Olin	Maximum	86	98	98	97	90	94	89	79	87	78	72	68	75	----	72	78	93	87	93	83	64	60	71	78	68	63	73	78	81	71	80.1[a]
	Minimum	47	52	65	54	67	67	63	64	60	67	61	56	54	----	52	54	62	68	66	60	46	48	52	46	47	53	60	48	56	60	57.1[a]
Sioux City	Maximum	91	98	97	96	94	88	86	79	82	79	67	73	75	66	71	88	90	79	95	72	58	59	76	76	73	61	73	82	84	64	79.1
	Minimum	66	72	69	73	74	67	64	67	65	65	52	45	47	56	57	63	69	62	69	50	40	47	46	50	48	52	52	57	64	48	58.5
Southern Division																																
Albia	Maximum	95	97	102	104	102	95	94	83	87	81	64	60	77	69	68	85	94	81	92	82	61	57	71	75	70	76	80	87	86	74	81.6
	Minimum	60	67	69	70	72	74	68	68	65	63	57	52	55	59	57	57	70	71	70	60	44	50	49	50	52	54	59	55	58	63	60.6
Atlantic	Maximum	92	95	98	98	97	92	91	87	81	80	70	73	78	72	72	86	97	88	94	86	60	56	71	78	70	67	78	86	83	75	81.7
	Minimum	58	69	65	64	74	72	63	65	57	59	55	46	48	55	58	67	72	62	72	59	42	45	40	45	45	54	53	56	62	59	58.0
Burlington	Maximum	90	95	98	100	99	98	89	83	90	83	76	66	67	66	66	83	93	87	93	84	63	61	70	74	69	70	78	84	83	71	81.0
	Minimum	62	62	71	71	75	76	71	69	66	66	62	59	57	58	59	56	66	73	68	60	51	53	52	52	53	57	60	57	58	63	62.1
Columbus Jct.	Maximum	86	95	94	98	98	95	87	83	85	78	75	62	70	68	65	80	91	83	91	83	64	61	68	73	67	66	75	79	80	74	79.1
	Minimum	54	57	70	63	74	74	68	65	63	63	60	57	55	54	57	52	64	72	69	62	47	51	52	51	51	54	60	53	56	63	59.7
Corning	Maximum	91	93	97	96	96	34	89	87	84	76	69	71	75	77	81	87	88	90	93	83	61	----	----	----	77	68	80	85	84	73	82.8[c]
	Minimum	59	68	60	65	65	57	64	63	63	57	54	48	47	49	57	58	---	59	----	50	43	----	----	----	40	54	54	55	61	60	56.4[e]
Corydon	Maximum	92	94	98	98	98	97	93	82	87	80	66	60	73	67	72	84	93	88	92	85	64	56	70	74	67	76	80	85	85	78	81.1
	Minimum	58	65	65	66	71	73	66	66	66	63	59	52	56	60	57	57	70	67	70	61	45	49	50	50	52	55	59	55	59	61	60.1
Fairfield	Maximum	91	97	97	103	102	95	91	84	94	81	68	62	70	68	67	85	93	85	94	84	64	59	71	75	71	69	72	86	85	72	81.2
	Minimum	54	62	69	67	68	74	69	66	62	63	61	56	56	56	57	54	66	72	67	62	46	52	50	50	51	55	59	54	58	62	59.9
Keokuk	Maximum	88	95	99	100	100	99	89	92	94	86	76	68	67	66	69	82	94	89	93	83	64	60	68	75	69	71	80	85	84	74	82.0
	Minimum	65	67	73	73	74	78	74	68	69	64	64	60	58	60	60	58	67	74	73	59	52	54	54	53	53	54	59	61	60	61	63.6
Lamoni	Maximum	91	92	95	96	96	90	87	86	81	77	65	63	70	69	72	81	90	87	89	78	61	56	65	72	66	71	76	80	81	79	78.5
	Minimum	59	64	67	66	66	69	67	65	65	62	54	52	57	59	58	56	68	68	71	60	44	48	48	49	52	54	58	56	56	62	59.3
Sigourney	Maximum	90	99	100	102	102	96	93	83	84	75	65	60	75	70	65	81	92	84	91	85	62	58	70	75	70	68	76	82	82	7	80.3
	Minimum	54	62	79	66	69	76	67	66	61	61	58	54	54	56	57	56	66	71	69	61	45	50	50	48	50	54	59	53	57	62	59.7
Thurman	Maximum	90	94	97	95	95	94	87	88	84	78	72	72	74	70	76	87	96	92	93	88	63	57	69	78	68	65	78	82	85	78	81.5
	Minimum	61	70	66	63	63	74	71	66	67	65	56	56	48	47	59	58	64	72	72	63	40	46	49	41	48	56	56	61	68	60	59.5
Winterset	Maximum	91	95	100	100	100	92	91	86	82	79	68	70	77	68	70	85	95	88	93	87	64	57	71	76	70	71	80	85	85	76	81.7
	Minimum	59	70	67	69	74	73	65	67	59	61	55	49	57	55	57	61	71	68	71	61	42	42	39	50	48	54	55	50	62	63	59.1
Omaha	Maximum	92	96	99	97	98	90	85	89	79	77	66	73	76	66	74	88	98	92	96	70	57	53	71	77	70	62	78	84	85	74	80.4
	Minimum	68	73	76	75	77	72	70	66	65	66	55	49	52	61	60	63	74	67	66	54	46	47	46	52	52	54	54	64	66	53	61.4

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

TOTAL PRECIPITATION, SEPTEMBER, 1925



Scale of shades in inches

Less than 2	2 to 4	4 to 6	6 to 8	More than 8

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. XXXVI DES MOINES, IOWA, OCTOBER, 1925 No. 10

GENERAL SUMMARY

There was a decided contrast in the weather during October, 1925, and that of a year ago. October, 1924, was, with one exception, the warmest in the history of the State, and this October is by far the coldest ever experienced, being 2.7° colder that in 1917, which was the coldest previous to this year in more than a half century of record. The average snowfall was the greatest ever recorded in the State, ranging from 1.2 inches in the extreme eastern portion to more than 8.0 inches in some northern stations, and over most of the State the amounts were remarkably uniform; the humidity was high, sunshine decidedly deficient, and both the number of cloudy days and days with 0.01 inch or more of precipitation equalled the record for the month; the opposite conditions prevailed a year ago. Aside from a day or two at the beginning of the month, the temperature was continuously below the normal, and "Indian Summer" was entirely absent. The first light frost occurred at a few northern stations on the 5th and the first killing frost occurred at a number of stations on the 7th, and by the 10th killing frost had visited the entire State. Owing to the advanced state of vegetation there was very little damage to staple crops, but there was considerable damage to truck crops. There was a tendency to warmer weather till the 15th, after which a gradual decline began and culminated during the last week in the coldest weather ever experienced in the State in October. The minimum temperatures were much lower at all stations than the previous record for October, and at a large number of stations the previous minimum was lowered on several days, and zero weather, which heretofore was practically unknown in October, occurred in more than half of the State, reaching a minimum of —15 at Inwood, which is 13° lower than the previous minimum. Zero occurred as far south as the Missouri line.

The precipitation averaged 0.49 inch above the normal, being deficient over the northwest, extreme southwest, and a narrow strip along the northern border, and gradually increasing to the south and east where there was a marked excess. While precipitation was recorded on a large number of days, most of the monthly total occurred on the 3d and 27th. The prevailing moist condition of the atmosphere, excessive cloudiness and lack of sunshine prevented the proper drying of corn, and rendered husking more difficult. The quality of the corn was reduced somewhat by mold and the high per cent of moisture made cribbing difficult and turning was necessary. Many fields were too wet to permit wagons to enter and the heavy snowfall on the 25th and 27th made a large amount of "down" corn, causing it to be covered with mud, and further impaired the quality of the crop. Husking was started generally about the middle of the month, but owing to the unfavorable conditions that prevailed poor progress was made, so that at the end of the month less than 20 per cent had been harvested. The excellent condition of the corn at the beginning of October caused procrastination in seed corn saving. Subsequent moist weather and severe temperature rendered much corn unfit for planting and imperiled the 1926 crop. The weather conditions interfered seriously with the hulling of clover, and it was necessary to abandon many fields ready to hull in the eastern and southern portions of the State. There was considerable loss to tubers where the snow drifted and left bare soil, but many fields of turnips and beets that were covered with snow were exposed to zero weather without suffering injury.

There were no storms of consequence during the month. Light hail occurred on the 3d and 7th at a number of stations, and a local storm of limited extent, said to have been a "twister" occurred in the south-central portion of Mahaska County during the early morning of the 3d. It unroofed buildings and destroyed trees in its path.

F. L. D.

TEMPERATURE

The mean temperature for the State, as shown by the records of 106 stations, was 40.2°, or 11.7° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 38.1°, or 12.2° lower than the normal; Central, 40.3°, or 11.8° lower than the normal; Southern, 42.2°, or 11.2° lower than the normal. The highest monthly mean was 44.5°, at Ottumwa, and the lowest was 36.2°, at Estherville. The highest temperature reported was 78°, at Stockport, on the 2nd, and the lowest was —15°, at Inwood on the 29th. The temperature range for the State was 93°, which is the greatest range of record for the month of October.

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
1890	49.2	—2.7	86	16	3.48	+1.06	6.82	1.59	------	7	11	11	9
1891	50.0	—1.9	92	19	2.77	+0.35	6.53	0.85	------	6	18	7	6
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	54.2	+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.	T.	5	19	6	6
1916	50.9	—1.0	92	6	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

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

Climatological Data for October, 1925

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	1,21[illegible]	52	38.9	—11.6	62	5	0	29	30	2.16	—0.09	1.09	5.5	5	17	8	6	nw.	W. E. Laird
Allison (near)	Butler	1,044	13	38.3	—12.4	65	15	-1	28†	32	2.81	+0.31	0.92	6.0	9	6	7	18	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	37.7	—12.4	65	1†	2	28†	34	1.42	—0.81	0.45	6.0	10	7	10	14	nw.	D. E. Hadden
Alton	Sioux	1,305	20	37.0	—12.8	62	15	-10	30	40	0.97	—0.79	0.60	6.0	8	6	13	12	nw.	W. S. Slagle
Belmond	Wright	1,205	15	38.4	—12.2	65	15	-4	30	32	2.07	—0.65	0.60	7.0	12	2	14	15	nw.	Geo. P. Hardwick
Britt	Hancock	1,236	38	38.2[b]	—11.5	66[c]	2	-3	30	35[c]	1.15	—1.25	0.58	5.0	5	6	8	17	nw.	Jas. S. Ross
Charles City	Floyd	1,015	34	37.8	—10.8	63	15	1	30	28	1.98	—0.45	0.58	4.2	16	4	8	19	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	36.9	------	65	15	-5	30	36	1.57	------	0.70	6.5	8	12	9	10	n.	J. E. Wirth
Decorah	Winneshiek	875	32	37.8	—11.3	67	12	-7	30	33	1.66	—1.16	0.71	7.0	10	6	6	19	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	40.9	—11.0	67	2	10	30	21	2.67	+0.09	0.61	3.9	13	3	4	24	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	36.2	—12.9	65	2	-5	30	35	1.03	—0.88	0.35	4.0	7	7	12	12	nw.	A. O. Peterson
Fayette	Fayette	1,003	37	38.8	—10.8	66	1	-5	30	37	2.63	+0.10	0.73	7.2	11	9	7	15	nw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	38.2	—10.9	68	3	-3	30	32	1.51	—0.92	0.47	5.5	10	9	4	18	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	38.4	—13.5	67	1	-1	30	32	2.77	+0.22	1.31	4.0	8	6	11	14	nw.	L. H. Davis
Humboldt	Humboldt	1,095	37	38.6	—12.7	67	15	-3	30	35	1.77	—0.45	1.03	8.0	5	6	9	16	nw.	H. C. Snitkey
Independence	Buchanan	921	61	40.3	—11.8	68	1	2	30	32	3.05	+0.50	1.34	5.3	11	6	8	17	nw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	36.6	—13.2	64	1†	-15	29	38	1.62	—0.29	0.80	8.0	9	14	7	10	nw.	A. C. Hanson
Lansing	Allamakee	632	18	----	----	----	----	----	----	----	1.85	—1.05	0.70	3.4	15	----	----	----	----	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	29	37.7	—13.4	64	4†	-7	30	39	1.08	—0.98	0.48	6.0	8	14	6	11	nw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	37.2	—12.4	64	15	-4	29†	36	1.85	—0.35	0.50	6.0	10	6	14	11	nw.	Amer. Beet Sugar Co
Milford (near)	Dickinson	1,430	5	37.2	------	64	1	-10	29	46	1.48	------	0.40	6.0	6	4	12	15	nw.	W. J. Hunt
New Hampton	Chickasaw	1,169	28	39.5	—10.7	75	2	0	29	29	1.78	—0.79	0.49	8.1	15	7	9	15	nw.	E. J. Fueling
Nora Springs	Floyd	1,064	13	38.7	—13.2	66	15	-6	30	36	3.12	+0.62	0.60	5.2	14	4	9	18	s.	Arthur Betts
Northwood	Worth	1,222	29	37.4[a]	—10.8	62[a]	17	-2[a]	30	38[b]	2.01	—0.63	0.45	8.0	14	4	11	16	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	39.5	------	70	1	2	30	27	2.85	------	0.80	4.0	7	6	7	18	nw.	John T. Ridler
Osage	Mitchell	1,163	----	37.4	------	64	15	-4	30	32	2.38	------	0.80	8.9	11	6	8	17	nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	38.0	—12.7	65	15	-2	29	36	1.51	—1.22	0.45	6.2	7	12	7	12	nw.	F. E. Hronek
Postville	Clayton	1,180	26	36.8	—12.5	63	2	-7	30	35	4.51	+1.83	0.73	6.6	11	3	5	23	nw.	F. L. Williams
Rock Rapids	Lyon	1,358	26	37.4	—11.5	61	2†	-10	29	39	1.03	—0.76	0.45	4.8	8	14	8	9	nw.	J. K. Medberry
Sanborn	O'Brien	1,553	11	36.4	—13.0	62	15	-5	29	36	1.15	—0.70	0.70	7.0	4	12	7	12	nw.	J. W. Dow
Sheldon	O'Brien	1,418	0	37.5	------	63	15	-9	29	36	1.09	------	0.39	6.4	8	11	10	10	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	26	36.9	—12.9	63	4†	-2	30	36	1.31	—0.53	0.60	6.0	5	11	4	16	nw.	J. de Ruyter
Spencer	Clay	1,319	11	37.6	—12.6	64	15	-8	29†	39	1.75	—0.17	0.75	7.7	9	7	9	15	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	39.4	—11.8	65	15	2	29	30	1.05	—0.99	0.40	7.0	7	12	6	13	nw.	Geo. H. Fracker
Washta	Cherokee	1,157	27	38.5	—12.0	65	15	-13	30	46	1.35	—0.76	0.50	6.0	8	9	8	14	n.	H. L. Felter
Waterloo	Black Hawk	854	42	40.5	—11.4	70	1	0	30	32	2.49	+0.05	0.90	3.0	9	10	8	13	nw.	R. B. Slippy
Waverly	Bremer	936	29	38.9	—12.2	67	4	-3	30	32	3.14	+0.54	0.98	4.5	12	6	13	12	nw.	D. H. Murphy
West Bend	Palo Alto	1,197	32	37.5	—13.1	64	13†	-5	29	34	1.84	—0.19	0.55	5.0	8	7	8	16	nw.	Jos. Dorweiler
Means and extremes	----------	------	----	38.1	—12.2	75	2	-15	29	46	1.93	—0.39	1.34	5.9	9	8	8	15	nw.	
Central Division																				
Ames‡†	Story	926	48	40.5	—11.2	69	3	-7	30	38	2.81	+0.20	0.98	7.0	11	11	11	9	se.	Iowa State College
Audubon	Audubon	1,297	30	39.0	—11.8	74	3	0	28	33	2.82	+0.51	1.07	6.0	7	5	15	11	nw.	Geo. Kibby
Baxter	Jasper	998	25	40.4	—12.0	71	3	-2	30	33	3.15	+0.73	1.90	7.0	9	6	11	14	nw.	Henry Geise
Belle Plaine	Benton	866	35	41.0	—10.9	77	1	-2	30	36	3.56	+1.07	1.27	5.5	14	5	10	16	n.	O. C. Burrows
Boone (near)	Boone	1,134	20	39.7	—12.0	71	3	-6	30	39	3.16	+0.37	0.83	5.0	9	7	8	16	se.	C. F. Henning
Carroll	Carroll	1,265	35	39.8	—11.8	75	3	1	28†	30	3.57	+0.99	1.13	4.5	8	14	5	12	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	40.2	—13.4	72	3	-2	30	34	4.47	+2.02	2.10	5.0	14	7	1	23	nw.	J. T. Wurster
Clinton	Clinton	595	52	42.3	—10.7	72	2	7	28	31	3.53	+0.97	0.81	1.9	12	10	6	15	w.	Dr. A. P. Bryant
Davenport	Scott	580	54	42.6	—11.1	72	2	11	28	23	3.01	+0.71	0.73	1.5	15	6	6	19	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	43.0	------	75	2	9	28	29	3.42	------	0.80	1.2	16	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	39.6	—12.1	72	3	-1	30	36	2.87	+0.64	1.25	6.0	5	9	9	13	nw.	V. L. Byers
Des Moines	Polk	861	47	41.6	—11.8	71	3	7	28	29	3.22	+0.66	1.42	4.8	12	5	7	19	n.	U. S. Weather Bureau
Fairport	Muscatine	567	4	43.5	------	73	3	10	28	25	3.76	------	1.01	1.5	13	7	7	17	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	38.6	—12.7	67	15	-4	30	36	2.00	—1.04	0.83	6.0	12	12	2	17	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	41.7	—11.3	73	1	2	28	32	3.99	+0.48	2.33	3.3	11	2	16	13	nw.	Paul P. Meyers
Grundy Center¶	Grundy	976	34	39.4[a]	—11.7	68[a]	2	-5[a]	30	36[a]	3.24	+0.45	1.00	5.6	15	10	4	17	n.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	40.3	—12.2	69	3	0	30	34	2.62	—0.04	0.86	7.0	8	10	9	12	n.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	38.0	—13.2	74	3	0	28†	36	3.37	+0.72	1.32	5.0	5	1	29	1	n.	Nels Bisgard
Iowa City	Johnson	733	65	41.1	—11.3	72	3	4	30	32	3.90	+1.16	1.58	3.0	16	8	8	15	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	38.8	—11.9	65	1†	-5	30	33	3.75	+1.29	1.48	5.5	9	3	11	17	nw.	J. B. Parmelee
Jefferson	Greene	1,052	26	38.4	—13.0	68	3	-6	30	33	3.18	+0.64	0.95	6.0	8	12	5	14	sw.	W. I. Lyon
Kalo	Webster	----	----	----	----	----	----	----	----	----	2.93	------	0.98	6.0	6	----	----	----	------	S. C. Fuller
Le Claire	Scott	576	25	----	----	----	----	----	----	----	3.98	+1.53	0.80	1.5	20	----	----	----	------	Margaret T. Dismey
Little Sioux	Harrison	1,040	20	42.0	—10.2	74	3	-5	28	41	3.80	+1.75	1.84	5.0	8	12	8	11	nw.	H. W. Kerr
Logan‡†	Harrison	1,035	58	42.6	—10.6	72	3	-2	28	37	2.66	+0.28	1.00	4.0	5	10	6	15	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	40.0	------	70	2	2	30	32	3.43	------	0.89	3.5	15	6	4	21	nw.	John Strodthoff
Marshalltown	Marshall	947	33	40.3	—12.7	71	3	-3	30	36	3.56	+0.80	1.02	7.3	12	10	2	19	nw.	C. C. Pigman
Monroe	Jasper	922	13	42.0[b]	—12.0	68[b]	1†	4[a]	28	45[c]	4.59	+2.09	1.97	3.4	10	9	3	19	nw.	J. A. Dibel
Muscatine	Muscatine	544	64	----	----	----	----	----	----	----	4.05	+1.40	1.28	2.0	16	----	----	----	------	Wm. Molis
Olin	Jones	760	26	40.5	—10.5	66	2	0	30	34	3.16	+0.67	0.86	3.0	9	----	----	----	nw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	40.3	—11.5	66	3†	-1	28	36	2.15	—0.03	0.87	6.0	5	15	0	16	n.	Mrs. H. E. Colby
Perry	Dallas	975	24	39.8[a]	—12.4	72[a]	3	-8[a]	30	38[a]	4.03	+1.31	2.08	5.5	11	----	----	----	nw.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	38.3	—13.5	65	15	-3	29	34	1.62	—0.97	0.70	7.5	5	13	6	12	nw.	A. W. McIsaac
Sac City	Sac	1,278	49	36.4[d]	—15.1	65[b]	15	-2[e]	30	33[e]	2.02	—0.15	0.85	8.0	4	----	----	----	n.	F. P. Kessler
Sioux City	Woodbury	1,135	36	39.4	—11.5	65	15	5	29	30	1.54	—0.22	0.55	5.3	10	9	6	16	nw.	U. S. Weather Bureau
Tipton (near)	Cedar	807	26	42.8	— 9.6	70	2†	2	30	34	3.39	+1.01	1.00	3.0	11	6	9	16	w.	Chas. H. Obye
Toledo	Tama	856	31	40.6[a]	—12.7	71[a]	1†	-8[a]	30	41[a]	3.59	+1.08	1.32	6.0	12	----	----	----	nw.	I. F. Giger
Van Meter	Dallas	872	6	----	----	----	----	----	----	----	3.80	------	1.13	5.0	11	----	----	----	------	Calvin K. Smith
Waukee	Dallas	1,039	22	40.6	—12.2	70	1†	3	28†	32	4.17	+2.01	1.89	4.5	13	9	15	7	nw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	38.4	—13.0	66	3†	-8	29†	38	2.39	—0.09	1.11	5.0	6	9	9	13	nw.	Frank A. Bonebright
Williamsburg	Iowa	765	9	39.9	—11.8	68	2†	-3	29	33	4.19	+1.74	2.55	3.5	8	9	9	13	nw.	Dr. F. C. Schadt
Means and extremes	----------	------	----	40.3	—11.8	77	1	-8	29†	45	3.31	+0.83	2.55	4.6	10	8	8	15	nw.	

¶Precipitation data are made from averages of Marshalltown, Toledo, Iowa Falls, Waterloo and Allison.

Climatological Data for October, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	41.8	—11.5	66	2†	4	28†	32	3.40	+0.82	1.05	4.5	11	12	3	16	nw.	S. R. Brown
Albia	Monroe	959	27	42.4	—11.1	71	3	5	30	30	4.55	+2.27	1.75	2.3	16	7	4	20	nw.	O. E. McBride
Atlantic	Cass	1,164	34	40.6	—11.6	66	3	1	30	33	3.00	+0.40	1.15	6.1	15	6	10	15	nw.	T. H. Whitney
Bonaparte	Van Buren	563	34	42.6	—11.1	72	2	–1	30	36	4.94	+3.06	1.79	3.5	12	9	1	21	e.	B. R. Vale
Burlington	Des Moines	544	29	44.2	—10.7	72	3	10	30	25	5.68	+3.40	1.38	4.0	17	7	7	17	nw.	John W. Donnelly
Centerville	Appanoose	1,013	20	42.7	—11.3	72	2	0	30	32	4.08	+1.87	1.66	3.0	12	6	6	19	nw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	42.3	—10.5	71	1	0	30	31	4.17	+1.85	2.15	3.0	8	6	12	13	n.	C. C. Burr
Clarinda	Page	1,009	35	43.5	—10.5	73	3	–1	30	37	2.31	—0.33	0.55	7.0	11	11	16	4	nw.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	42.1	—12.2	71	2	6	30	27	3.69	+1.14	1.15	2.1	15	5	17	9	nw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	41.7[a]	—10.7	74[a]	4	–3[a]	30	43[a]	2.59	—0.17	0.70	5.0	9	----	----	----	nw.	Jerome Smith
Corydon	Wayne	1,101	32	42.7	—11.1	71	1†	–1	30	35	3.52	+0.93	1.19	4.0	13	7	13	11	nw.	A. T. Gallagher
Creston	Union	1,312	20	40.2	—12.3	67	3	2	28	30	2.63	—0.15	0.62	0.5	14	10	8	13	nw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26	----	----	----	----	----	----	----	2.51	—0.20	1.16	7.0	11	8	9	14	nw.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	40.0	—12.0	68	2†	–5	30	35	3.43	+0.99	1.70	7.0	7	11	4	16	nw.	Geo. Phillips
Fairfield	Jefferson	780	41	42.0	—11.0	72	3	1	30	32	4.27	+1.51	1.67	3.3	14	8	2	21	s.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	42.6	—11.0	68	3†	0	30	34	2.54	—0.14	0.86	4.0	11	12	5	14	nw.	Dr. Geo. Mogridge
Indianola	Warren	972	34	41.2	—12.0	70	3	4	30	29	3.63	+1.27	1.94	3.5	11	9	11	11	nw.	Seth F. Shenton
Keokuk	Lee	614	54	44.2	—11.2	75	2	13	30	27	2.56	+0.17	0.75	6.6	13	6	9	16	nw.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	41.4	—11.8	68	2	1	30	31	4.89	+2.90	1.70	5.5	14	4	10	17	se.	J. H. Landes
Knoxville	Marion	920	30	41.8	—11.9	71	3	2	30	32	4.68	+2.37	2.58	3.5	11	6	4	21	nw.	W. J. Casey.
Lacona	Warren	824	26	----	----	----	----	----	----	----	3.07	+0.36	1.07	4.0	16	7	14	10	----	J. B. Alter
Lamoni	Decatur	1,123	18	41.2	—12.3	70	2	–1	30	32	3.34	+0.41	1.01	6.6	13	9	11	11	nw.	F. S. Parks
Lenox	Taylor	1,250	30	41.1	—12.1	72	2	1	30	35	2.79	+0.07	0.64	3.3	11	9	7	15	nw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	41.6	—12.0	71	2	0	30	36	2.69	+0.17	0.45	4.0	12	13	3	15	nw.	Alex Maxwell
Mt. Pleasant	Henry	729	44	42.7	—11.3	72	3	9	28†	27	3.91	+1.51	1.49	1.5	11	7	5	19	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	41.6[a]	—10.7	68[a]	1	–2[a]	30	37[a]	2.72	----	0.98	5.0	10	13	0	18	n.	M. E. Gray
Oskaloosa	Mahaska	835	49	41.6	—11.2	68	2†	3	30	30	4.86	+2.61	2.70	3.0	13	8	3	20	nw.	Roy R. Robinson
Ottumwa	Wapello	649	30	44.5	------	72	1†	5	30	33	4.45	+2.07	2.06	1.8	15	7	7	17	nw.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	----	----	----	----	----	----	----	----	1.99	----	0.70	5.0	6	7	13	11	s.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	41.4	—11.6	69	3	4	30	31	3.69	+1.44	1.59	2.7	11	8	4	19	nw.	W. E. Utterback
Stockport	Van Buren	747	23	42.3	—10.1	78	2	0	30	34	4.59	+2.53	1.81	3.0	13	7	3	21	n.	C. L. Beswick
Thurman	Fremont	975	28	42.4	—10.4	72	3	–5	30	43	2.49	—0.45	0.82	6.0	7	9	9	13	nw.	C. R. Paul
Tingley	Ringgold	1,275	----	41.8	------	71	2†	0	30	32	2.78	----	0.62	4.3	10	11	6	14	nw.	James A. VerPloegh
Washington	Washington	769	43	42.6	—10.7	72	2†	6	30	33	4.72	+2.52	1.83	2.0	12	6	0	25	ne.	D. D. Sherman
Wescott (near)	Lee	523	3	44.4	------	75	2	2	30	34	3.15	----	1.60	4.0	5	8	11	12	w.	Lester J. Larson
Winterset	Madison	1,129	34	41.4	—12.2	68	3	3	28	30	3.34	+0.97	1.75	5.0	7	11	5	15	nw.	H. S. Ely
Omaha, Nebr.	----	1,103	54	42.6	—11.7	68	15	8	28	26	2.11	—0.24	0.79	5.5	14	12	3	16	nw.	U. S. Weather Bureau
Means and extremes	----	----	----	42.2	—11.2	78	2	–5	30	43	3.49	+1.03	2.70	4.1	12	8	7	16	nw.	
State means and extremes	----	----	----	40.2	—11.7	78	2	–15	29	46	2.91	+0.49	2.70	4.9	10	8	8	15	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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	30.08	30.52	9	29.70	26	88	66	77	38	†15	4,695	6.3	21	sw	10	30	—29
Davenport	30.06	30.52	29	29.61	26	87	70	74	34	20	4,564	6.1	24	nw	19	34	—26
Des Moines	30.07	30.55	9	29.65	26	85	61	66	34	20	5,066	6.8	22	sw	†10	35	—28
Dubuque	30.04	30.52	29	29.64	25	85	66	70	33	17	4,284	5.8	21	nw	26	24	—31
Keokuk	30.09	30.56	29	29.68	21	85	64	72	34	20	4,744	6.4	29	nw	29	39	—22
Sioux City	30.11	30.62	28	29.58	25	80	58	64	31	20	8,610	11.6	40	s	10	44	—18
Omaha, Neb.	30.09	30.56	28	29.62	25	80	64	66	33	20	6,414	8.6	32	nw	†18	48	—14
Means and extremes	30.08	-----	----	----	----	84	64	70	---	----	------	7.5	---	-----	----	36	—24
	-----	30.62	28	29.58	25	---	---	---	31	20	------	----	40	s	10	----	----
Normals and records	30.03	------	31st	------	20th	81	---	62	---	25th	------	8.1	---	------	16th	60	----
	-----	*30.69	1913	§28.96	1876	---	---	---	¶17	1895	------	----	*60	sw	1880	----	----

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

PRECIPITATION

The average precipitation for the State, as shown by the records of 114 stations, was 2.91 inches, or 0.49 inch more than the normal. By divisions, the averages were as follows: Northern, 1.93 inches, or 0.39 inch less than the normal; Central, 3.31 inches, or 0.83 inch more than the normal; Southern, 3.49 inches, or 1.03 inches more than the normal. The greatest amount, 5.68 inches, occurred at Burlington, and the least, 0.97 inch, occurred at Alton. The greatest amount in any 24 consecutive hours, 2.70 inches, occurred at Oskaloosa, on the 3d.

SNOWFALL

The average snowfall for the State was 4.9 inches, or 4.3 inches more than the normal. This is by far the greatest snow fall of record for the State. Most of the snow occurred during a general storm on the 27th but numerous light falls occurred over the northern half of the State beginning during the first part of the 2d week. The northern and portions of the central and southern divisions were mostly snow covered at the close of the month.

Daily Precipitation for October, 1925

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			.60				.20										.07									.20	1.09					2.16
Allison (near)	Cedar		.92	.67	.07	T.	.01	T.	T.	T.			T.		.07		T.		.05			T.	T.		.02	T.	.40	.60					2.81
Alta	Raccoon		.32	.27			.04	.08					.07						.01						.02	.10	.06	.45					1.42
Alton	Floyd		.03	.14	T.			.09					.04				.03		T.				T.		.02	.02		.60					0.97
Belmond	Iowa		.41	.40		T.		.07	.05	.02					T.				.05	.01			.03		.05	.10	.28	.60	T.				2.07
Britt	Iowa		.05	.34	.03			.15							T.				T.						T.	T.	T.	.58					1.15
Charles City***	Cedar	.03	.42	.25	.02	.05		.06		T.			.02	.04	.01				.10	T.			.14	.01	.04	.30	.25	.24	T.				1.98
Cherokee	Little Sioux		.20	.29	T.	T.	.02	.11		T.				.07					T.				T.		.10	.08	.70					1.57
Decorah	Mississippi	.35		.10			T.	.07		.02			.06						.15				.05		.04	.11	.71					1.66
Dubuque***	Mississippi	T.	.45	.34	T.	.04	T.	T.	.34	.20		.13		T.	.16		T.		.02	T.		T.	.04		.07	.12	.44	.32	T.				2.67
Estherville	Des Moines		.10	.20				.15									.05						.03				.35	.15					1.03
Fayette	Mississippi	.05	.58	.41	.06			T.		T.			.06		.24				T.			T.	.15		.06	.05	.68	.29	T.				2.63
Forest City	Cedar	.10		.47		T.		.20		.05			.08		T.				.07	.02			T.		.02	T.	.35	.20	T.				1.51
Hampton	Cedar	1.31	.65	.01		T.		T.	T.	T.				T.					.05				.02		.02	.33		.38					2.77
Humboldt	Des Moines		1.03	.18		T.		T.		T.			T.		T.				T.				.02		.02		T.	.52					1.77
Independence	Wapsipinicon	.08	.27	1.34	.04		.11			T.					.38				.08	T.			.08		.07		.15	.45					3.05
Inwood	Big Sioux		.06	.02				.14					.40				.07			T.					.03	.07	.03	.80					1.62
Lansing	Mississippi	.03	.15	.02	.18		.01		T.	.23	.03		.11		.05					.08		T.		.03	T.	.06	.70	.02	.15				1.85
Le Mars	Floyd		.24	T.	.02		.02	.14	T.				.06						T.	T.					T.	.06	.06	.48					1.08
Mason City	Cedar		.19	.29	.19	T.	T.	.10		T.		.06			.04		T.	T.	T.	T.			.13		.05		.50	.30	T.				1.85
Milford (near)	Little Sioux		.08	.16				.40					.35													.25		.24					1.48
New Hampton	Wapsipinicon	.01	.18	.37	.04	.03		.04		.01			.01		.05				.10	.01			.10			.12	.49	.22					1.78
Nora Springs	Cedar		.38	.51		.12		.21	.02	.09			.19		.04				.13	T.		T.	.15		.18	.40	.20	.50	T.				3.12
Northwood	Cedar		.15	.28	.25	T.		.10	.02	.05			.18				T.		.10	.03			.10	T.	.10	.10	.45	.10					2.01
Oelwein	Wapsipinicon		.80	.70	.10										.30								.20				.25	.50					2.85
Osage	Cedar	T.	.20	.33	.18	T.		.08		T.					T.		T.		.22	.02			.21		.03	.11	.80	.20					2.38
Pocahontas	Des Moines		.28	.45		T.							.15		T.				T.						.02	.10	.11	.40					1.51
Postville	Mississippi		.34	.45	.14		T.	.65		.70				.72	.23		T.		T.				.26		T.	.07	.73	.28					4.51
Rock Rapids	Big Sioux			.03				.09					.24				.04		T.						.03	.03	.12	.45					1.03
Sanborn	Floyd			.13				.15					.17						T.						T.	T.		.70					1.15
Sheldon	Floyd	T.	.05	.10	T.			.16	T.				.25		T.		.04		T.	T.			T.		T.	.02	.08	.39					1.09
Sioux Center	Floyd	T.	T.	.22				.18					.19						T.						T.	T.	.12	.60					1.31
Spencer	Little Sioux		.15	.22	.02			.22					.10		T.		.02		.02								.25	.75					1.75
Storm Lake	Raccoon		.40	.14		T.		.07	T.				.06		.01					T.				.01	T.	T.		.36					1.05
Washta	Little Sioux		.17	.11		.02	.20	.11					.09						T.							T.	T.	.15	.50					1.35
Waterloo	Cedar	.02	.47	.90		T.	.03			T.					.20				.05				T.			.05	.47	.30					2.49
Waverly	Cedar	.03	.98	.70		.06							.03		.15				.10						.07	.04	.03	.50	.45					3.14
West Bend	Des Moines		.55	.22	.03			.12					.12		.05												T.	.35	.40					1.84
Central Division																																	
Ames	Skunk	.01	.18	.80		.03	.82		.01	T.		.03		T.	.17				.01				T.				.12	.63					2.81
Audubon	Nishnabotna	.02	.06	1.07		.02	1.00	T.	.05				T.	T.			T.		T.									.60		T.			2.82
Baxter	Skunk	.08	.03	1.90			.45					.11			.28		T.		T.						.02	.20		.08					3.15
Belle Plaine	Iowa	.14	.03	1.27		.03	.54		.05	.11		.31		T.	.18		T.	.03	T.	T.		T.	T.		.09	.02	.29	.47					3.56
Boone	Des Moines	.61	.20	.55		T.	.83		.05			.05			.13		T.		T.				T.		T.	T.	.21	.53					3.16
Carroll	Raccoon	.02	.86	1.13		.04	.99		.02						.04													.47					3.57
Cedar Rapids	Cedar	.33	.07	2.10	T.	.03	.45		.22	.07		.23			.34		.02	T.	T.	T.		T.	T.		.12	.01	.18	.40					4.47
Clinton	Mississippi		.06	.81			.42			.45		.25			.21		.42		.02				.05		.34		.28	.22					3.53
Davenport***	Mississippi		.16	.53	T.	.01	.39		.12	.09		.11	T.	.01	.21		.73		T.			.01	.04	T.	.38	T.	.11	.11					3.01
Davenport (No. 2)	Mississippi		.01	.80	.01	.05	.45			.29		.21			.31		.61	.18				T.	.02	.06	.17	.13		.09	.03				3.42
Denison	Missouri		.16	1.09		T.	1.08		T.				.04			T.	T.		T.						T.			.50					2.87
Des Moines***	Des Moines	.03	1.10	.36	T.	T.	.76		.05		T.	.09	T.	.17	.05		.01		T.				T.		T.	.09	.03	.48		T.			3.22
Fairport	Mississippi			1.01			.57			.14		.15		.03	.33		.25	.51				.03			.30	.15	.13	.16					3.76
Ft. Dodge	Des Moines	.07	.34	.83	.03	.01	.14						.03						.02				.02		.04		.04	.43					2.00
Grinnell	Iowa	.06		2.33			.62			.04		.27		.03	.18			.01	T.				T.		.01		.12	.32					3.99
Grundy Center	Cedar	.08	.55	1.00	.09	T.	.29	T.	.02	.02		.05			.20				.03				T.	.01	.01	.09	.26	.54					3.24
Guthrie Center	Raccoon		.15	.66		T.	.86		T.	.06		.09			.18												.06	.56					2.62
Harlan	Nishnabotna		.25	1.32			.85								.45													.50					3.37
Iowa City	Iowa	.21	.01	1.58	.02		.53		.05	.08		.16	.01	.09	.27		.05	.05				T.			.18	T.	.33	.28					3.90
Iowa Falls	Iowa	.08	1.09	1.48	.03	T.	.05	T.	T.	T.			T.		.15				.04				T.		T.	T.	.28	.55	T.				3.75
Jefferson	Raccoon	T.	.52	.79		.03	.95		.03			T.		T.	.22		T.		T.				T.	T.	T.	T.	.04	.60					3.18
Kalo	Des Moines			.98	.36	.50		.25					.24														T.		.60				2.93
Le Claire	Mississippi	.36	.02	.80	T.	T.	.15	.29		.46	.04	.06	.03	.04	.12	.05		.68		.01	T.		T.	.10	.16	.28	.16	.02	.15					3.98
Little Sioux	Little Sioux		.19	1.84		T.	.92		.13				.03	.18					T.					T.	.01	T.		.50		T.			3.80
Logan	Missouri			1.00			.87					.13		.12														.54					2.66
Maquoketa	Maquoketa		.11	.89	.03		.39		.15	.35		.23			.23		.08	.02					.07		.12	.03	.45	.28					3.43
Marshalltown	Iowa	.25	.22	1.02	T.	.02	.78	T.	.02	T.		.06			.27		T.		.02			T.	T.		.02	T.	.15	.73					3.56
Monroe	Des Moines	.30	.10	1.97		.54			.42	T.		.28		T.	.29	T.						T.	T.		.11	T.	.14	.44					4.59
Muscatine	Mississippi	.10		1.28	.14		.20	.38		.10		.14	T.	.04	.13	.16		.75					.02		.17	.15	.13		.16				4.05
Olin	Wapsipinicon		.10	.86			.50					.43			.30		T.					T.	.10		.20		.47	.20					3.16
Onawa	Missouri		T.	.55		T.	.87		.02						.11										T.	T.		.60					2.15
Perry	Raccoon	.09	.02	1.35	.73	T.	.78		.13			.04	T.	T.	.16		T.		.01								.08	.64					4.03
Rockwell City	Raccoon		.10	.42		.05	.35												T.						T.	T.		.70					1.62
Sac City	Raccoon		.15	.85		T.	.22	T.					T.												T.	T.		.80					2.02
Sioux City***	Missouri	.04	.53	T.		T.	.21	.11				.04	.01						.02						.03	.08		.47					1.54
Tipton	Cedar	.30	.50	1.00			.31			.18		.06		.04	.24		.16						T.		T.		.30	.30					3.39
Toledo	Iowa	.06	.07	.95	.37	T.	.58		.07	.10		.17			.25			.02						.07		.38		.50					3.59
Van Meter	Raccoon	.17	.02	1.13	.35		.42	.35		.04		.10			.32													.50	.40				3.80
Waukee	Raccoon	.16	.26	1.89	.06	T.	.81	T.	.10			.08		.01	.25		.01		.01				T.		T.	T.	.08	.45		T.			4.17
Webster City	Des Moines		.47	1.11		T.	.23						.05		T.										T.		.10	.43					2.39
Williamsburg	Iowa			2.55					.08	T.		.21		.05	.44		T.		T.						.22	.30		.31					4.19

Daily Precipitation for October, 1925—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	T.	.05	1.05		T.	.70					.20	.20		.30		T.	.10						.35	.10		.10	.25					3.40
Albia‖‖	Des Moines	.41		1.75	.01	T.	.46			T.		.20	.07	.02	.51		.22	.08	T.			T.		.14	.43	.01	.10	.09	T.	.05			4.55
Atlantic	Nishnabotna		.22	1.15		.03	.49		.01			.07	T.	.16	.11		T.		T.	.01				.07	.01	.01	.06	.50		.10			3.00
Bonaparte	Des Moines			1.79	T.		.43			T.		T.	T.	.13	.75		.54	.30	T.			T.	T.	.21	.27	.07	.10	.15	T.	.20			4.94
Burlington‖‖	Mississippi	1.62		1.38		.01	.53			T.		.06	T.	.09	.51		.20	.35	.02			T.		.15	.22	.04	.10	.10	.08	.22			5.68
Centerville	Chariton	.02	T.	1.66	T.		.32			T.		T.	.09	.15	.59		.17	.02	T.			T.	T.	.35	.42			.11		.18			4.08
Chariton (near)	Chariton	T.	T.	2.15	T.		.44					.32	T.	T.	.42		.10	T.						T.	.44		T.	.11		.19			4.17
Clarinda	Nodaway		.08	.41			.46					.03	.10				.06	.02						.42	.13			.10		.50			2.31
Columbus Jct.	Iowa			1.15	.01	.51				.07		.11		.09	.34		.25	.43				.03			.32	.03	.14	.20		.01			3.69
Corning	Nodaway			*40			.70				.10			.11	.20										.50	.08			.30		.20			2.59
Corydon	Chariton	.03	T.	1.19			.46					.08	.02	.07	.53		.18	.11					T.	.42	.38			.02		.03			3.52
Creston‖‖	Missouri	.10	.05	.55			.62		.05			.13	.15		.35		.08	.10	T.					.35	.05				.03	.02			2.63
Cumberland (near	Nodaway	.02	.06	1.16	T.	T.	.47		.06			.02	T.	T.	.18		T.		T.					.15	T.		.14	.20		.05			2.51
Earlham	Des Moines	.03	T.	1.70	.01	T.	.60		T.					T.	.39		T.							T.	T.		T.	.60		.10			3.43
Fairfield	Skunk			1.67			.57	.02		T.		.10	.01	.12	.45		.20	.30				T.		.06	.36	.06		.30		.05			4.27
Glenwood	Missouri	.08	.12	.02			.86							.08	.10									.60	.18		.10	.30		.10			2.54
Indianola	Des Moines	.10	.02	1.94		T.	.59			.03		.23			.27		T.	.05						T.	.05	T.		.50		.05			3.63
Keokuk***	Mississippi	T.	.21	.54	T.	T.	.41			T.		.01	.14	.04	.19		.21	.01	T.		T.	T.		T.	.17		.12	.30	T.	.21			2.56
Keosauqua	Des Moines			1.70			.41					.04	.08	.07		.72	.38	.37	T.				T.	.21	.25	.01	.10	.35	T.	.20	T.		4.89
Knoxville	Des Moines	.14	T.	2.58		T.	.58		T.	.04	T.	.28	T.		.36		T.	T.	T.			T.	T.	.10	.15		.10	.30		.05			4.68
Lacona	Des Moines	.01	.01	1.07		.01	.55			.02		.12	.05		.26		.04	.25						.06	.14		.08	.30		.10			3.07
Lamoni‖‖	Grand	.16	.12	.89			.35					.03	.15	.03	.67		.08							.29	.18			.15		.24			3.34
Lenox	Missouri		.16	.45			.64		T.			.10	.07	T.	.34		.10		T.					.45	.18			.15		.15			2.79
Mt. Ayr	Grand	.02	.16	.44			.38					T.	.14	T.	.45		.03	.05	T.					.38	.19			.15		.30			2.69
Mt. Pleasant	Skunk	.02		1.49	.02	T.	.62			T.		.08			.68		.44	T.	T.					.02	.35			.13		.06			3.91
Oakland	Nishnabotna		.16	.98	.08	.13	.63		T.	T.		.06			.06			T.							.12			.40		.10			2.72
Oskaloosa	Des Moines	T.		2.70	T.	T.	.65			.03		.28		.05	.25		.05	.03	T.			T.	T.	T.	.32	.02	.22	.24	T.	.02			4.86
Ottumwa	Des Moines	T.		2.06		T.	.50			.03		.21	.05	.07	.51		.15	.14	T.			T.		.03	.41	.01	.08	.12	T.	.08			4.45
Red Oak (near)	Missouri		T.	T.		T.	.49						T.		T.	.30									.70			.20	.20	.10		T.	1.99
Sigourney	Skunk			1.59		T.	.65			T.		.20	T.	.05	.28		.13	.10	T.			T.	T.	T.	.28	T.	.16	.23		.02			3.69
Stockport	Skunk			1.81		T.	.56			T.		.09	T.	T.	.60		.21	.38	.02		T.	T.		.12	.31	.06	.15	.20	T.	.08			4.59
Thurman	Missouri	T.	.38			T.	.82		T.				T.	T.	.21			T.	T.				.38	.24				.12		.34			2.49
Tingley	Platt		T.	.62			.59						.02	T.	.48		.02	.07						.48	.20			.14		.16			2.78
Washington	Skunk			1.83	T.		.95		.10			.02	T.	.06	.62		.20	.11				T.			.35	.12	.06	.30		T.			4.72
Wescott (near)	Mississippi			1.60			.40								.60									.15				.40					3.15
Winterset	Des Moines		.13	1.75		T.	.52					.15			.28									.06				.45					3.34
Omaha, Neb.**	Missouri	.01	.04	.76	T.	.01	.38		.02			.08	T.	.07	.05				T.					.17	.01	.10		.31		.10			2.11

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.

¶Average of measurements at Marshalltown, Toledo, Iowa Falls, Waterloo and Allison.

‖‖‖Precipitation entered on the first day of the month is for a 36-hour period ending at 7:00 p. m. October 1.

MISCELLANEOUS PHENOMENA

Aurora: 21st.
Fog: 2d, 3d, 4th, 13th, 14th, 22d, 30th.
Frost: (light) 5th; (heavy) 7th; (killing) 7th, 9th, 10th.
Hail: 3d, 7th.
Halos: (lunar and solar): 5th, 14th, 28th.
Sleet: 6th, 7th, 9th, 18th, 22d, 25th, 26th.
Thunderstorms: 1st, 2d, 3d, 4th, 14th, 15th, 16th.
Tornado: 3d.

RIVERS

Low stages prevailed on the Mississippi River throughout the month, though a slight rise occurred during the first part of the month that continued till about the 10th, after which there was a slow, gradual fall. A moderate rise occurred in nearly all interior rivers following the heavy rains on the 3d, but by the end of the first week falling stages were general and low stages prevailed the rest of the month. On the Missouri River there was a slow general rise till near the end of the 3d week and a gradual fall thereafter. Many rivers and small streams in the State were frozen over during the last week. Lakes in the northern portion of the State were also frozen over, a condition unknown heretofore in October.

ERRATA

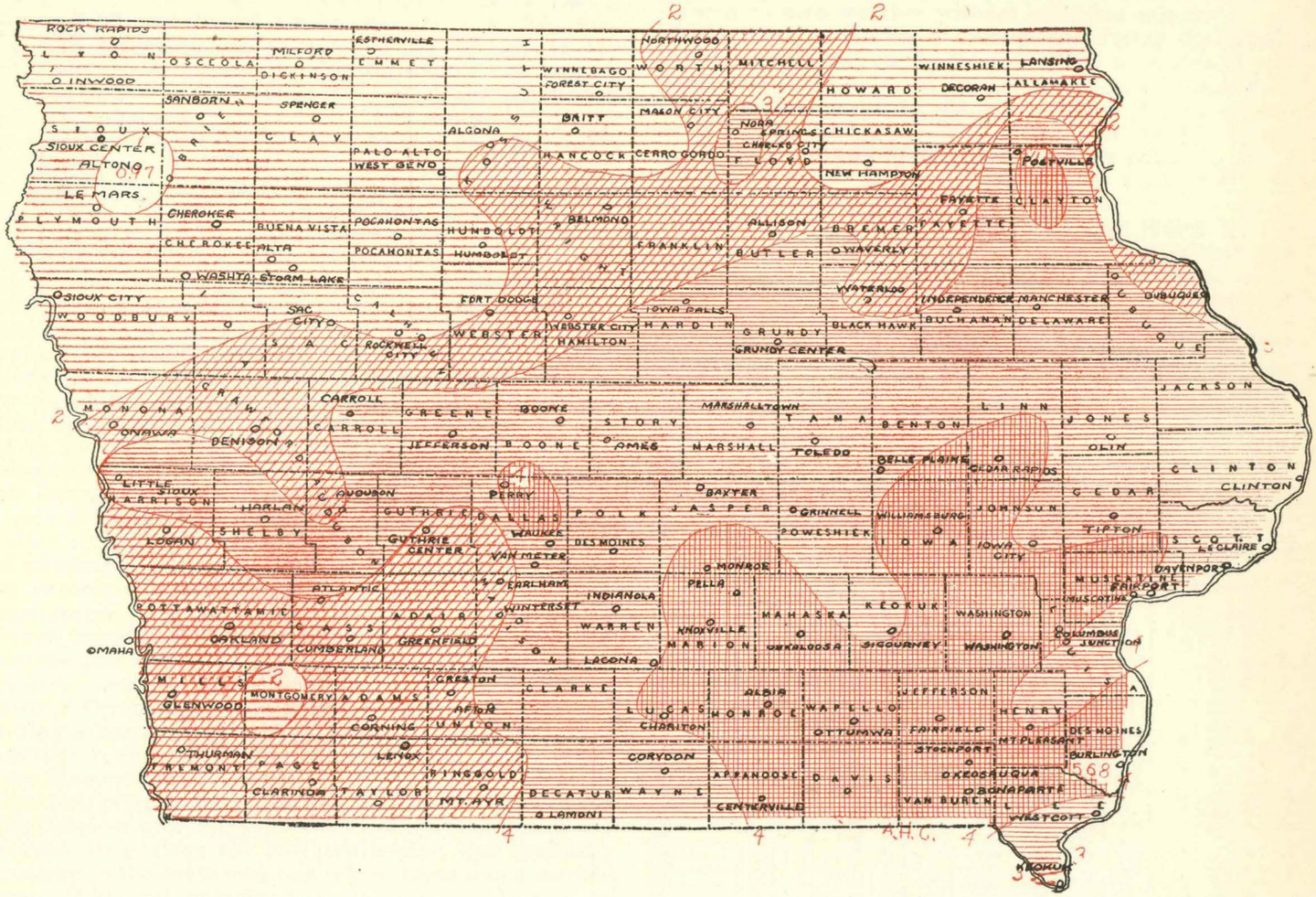
Report for September, 1925. Page 67. Sunshine at Charles City published 66 per cent, should be 65 per cent; departure published +4 per cent, should be +3 per cent. Page 70. The maximum temperature at Omaha, Nebraska, on the 22d published 53°, should be 54°.

Daily Maximum and Minimum Temperature for the Month of October, 1925

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
Northern Division																																	
Algona	Maximum	59	58	59	59	62	60	60	60	60	47	60	54	60	55	61	56	40	41	45	46	46	40	40	40	40	40	27	22	23	27	39	47.9
	Minimum	43	50	45	46	39	35	34	34	30	24	41	41	35	42	33	36	31	27	23	25	26	33	33	33	27	25	16	9	0	3	9	29.9
Alta	Maximum	65	60	57	61	57	51	44	42	41	50	60	51	57	48	65	47	50	40	42	46	50	62	42	35	41	38	24	19	24	31	42	46.5
	Minimum	43	49	50	47	40	32	35	33	27	24	40	41	35	35	31	31	25	28	26	22	26	29	34	30	25	20	7	2	2	4	22	28.9
Alton	Maximum	59	59	55	60	59	53	45	43	40	51	59	53	58	50	62	52	47	41	40	45	51	60	49	36	44	40	25	17	21	30	39	46.5
	Minimum	40	50	50	46	35	34	37	34	27	22	40	42	29	37	27	34	20	29	26	15	23	25	35	33	18	23	10	3	−5	−10	23	27.5
Belmond	Maximum	63	59	61	61	60	53	42	45	42	49	62	54	61	58	65	46	50	40	43	48	45	39	39	40	41	38	30	26	29	28	40	47.0
	Minimum	45	51	54	46	38	36	31	37	31	24	41	43	42	44	33	31	22	29	26	23	23	25	30	31	26	26	23	0	−3	−4	18	29.7
Charles City	Maximum	63	58	61	57	59	52	43	44	41	47	59	56	60	53	63	44	49	40	38	42	44	34	39	39	44	34	27	23	24	29	39	45.3
	Minimum	49	51	55	40	38	33	32	37	28	23	42	44	45	45	35	30	24	31	28	26	24	23	34	32	25	25	13	9	2	1	19	30.4
Decorah	Maximum	62	64	61	61	58	51	53	54	41	41	56	67	60	53	61	52	49	45	43	40	44	34	43	38	44	44	34	25	24	26	36	47.2
	Minimum	48	46	51	52	30	28	35	36	29	19	37	42	44	44	35	31	19	28	27	25	18	17	29	30	24	21	16	11	−4	−7	16	28.3
Dubuque	Maximum	66	67	64	59	59	53	49	49	43	46	51	56	61	57	60	48	50	43	37	43	41	35	47	44	46	40	29	26	26	30	41	47.3
	Minimum	55	53	58	47	42	39	35	40	32	28	41	48	48	43	44	38	31	33	31	29	27	24	33	36	34	26	19	15	12	10	20	34.5
Forest City	Maximum	60	55	68	58	63	54	43	41	39	48	62	57	64	55	64	53	52	43	41	43	45	43	39	38	40	37	28	25	26	28	39	46.8
	Minimum	43	48	52	48	38	33	32	36	30	21	38	40	41	43	32	34	22	32	27	27	22	25	32	32	26	25	18	5	−1	−3	19	29.6
Independence	Maximum	68	67	65	65	60	58	47	47	43	48	54	59	59	57	64	62	58	48	38	44	47	38	44	41	46	44	29	27	24	29	40	49.0
	Minimum	52	51	56	51	39	37	32	40	34	24	40	45	43	45	36	36	26	35	27	21	23	24	28	35	27	26	21	5	4	2	14	31.6
Inwood	Maximum	64	63	55	60	59	54	44	44	45	53	64	52	52	51	64	47	49	48	39	47	56	61	45	37	44	40	24	17	23	31	44	47.6
	Minimum	39	45	49	42	38	34	36	32	24	25	33	38	29	33	31	30	24	24	26	19	26	30	31	32	22	22	−7	−2	−15	−5	10	25.7
Mason City	Maximum	61	57	59	57	62	54	42	43	38	59	60	58	60	54	64	50	50	39	38	40	43	36	53	37	39	35	27	20	21	29	41	46.0
	Minimum	45	49	53	46	35	32	29	37	31	23	41	41	36	43	34	32	23	29	27	23	23	21	32	31	22	24	16	5	−4	−4	8	28.5
Milford (near)	Maximum	64	59	60	58	58	55	45	46	44	48	60	52	58	53	61	53	45	39	41	40	46	55	50	36	42	42	28	19	23	27	39	46.6
	Minimum	48	44	45	50	46	40	38	36	30	20	45	32	46	24	15	30	20	30	29	15	15	32	30	30	34	25	11	0	−10	−7	18	27.8
New Hampton	Maximum	66	75	62	66	58	52	43	53	44	48	58	57	63	59	68	59	50	45	37	43	44	42	39	39	44	39	30	24	25	29	37	48.2
	Minimum	52	49	53	48	36	34	32	38	32	23	39	43	46	49	34	33	23	34	26	22	22	29	31	32	24	22	20	10	0	3	17	30.8
Northwood	Maximum	60	57	61	52	50	44	42	43	38	48	59	58	60	52	61	----	62	58	39	40	45	37	37	37	42	35	30	20	22	27	37	45.1[a]
	Minimum	45	48	52	44	37	34	33	36	31	25	39	40	38	41	----	32	24	30	27	25	23	24	31	32	24	25	20	10	3	−2	18	29.6[a]
Pocahontas	Maximum	60	59	59	64	60	52	45	43	41	50	63	52	61	52	65	50	49	42	41	42	49	55	45	38	41	42	25	22	26	30	40	47.2
	Minimum	45	50	55	45	36	34	31	36	29	22	40	41	35	42	29	32	21	29	27	22	23	26	32	32	24	25	12	2	−2	0	20	28.9
Postville	Maximum	62	63	59	59	57	53	40	46	42	47	54	56	61	54	57	50	51	44	35	40	39	32	42	37	44	38	28	24	25	28	39	45.4
	Minimum	49	47	40	45	35	34	29	36	28	18	40	42	44	42	45	33	20	28	26	24	21	17	29	30	23	20	14	7	−2	−7	19	28.3
Central Division																																	
Belle Plaine	Maximum	77	68	70	65	60	54	55	50	47	53	56	59	56	60	66	50	56	44	43	51	45	40	53	44	51	43	35	30	26	34	45	51.2
	Minimum	58	53	55	49	38	37	32	40	34	23	41	47	41	42	30	37	24	31	27	21	24	25	25	35	25	30	17	1	0	−2	15	30.8
Boone	Maximum	67	65	71	65	60	54	49	47	43	51	60	60	62	58	66	54	53	47	45	49	51	48	46	40	45	46	28	24	26	31	42	50.1
	Minimum	48	54	58	35	35	37	30	37	32	21	42	47	38	46	27	35	21	32	28	19	21	22	25	35	24	28	16	2	−2	−6	20	29.3
Carroll	Maximum	66	68	75	64	57	52	46	45	49	52	62	58	63	57	62	53	53	44	46	49	54	55	50	38	44	42	27	23	23	29	41	49.9
	Minimum	46	52	55	48	39	33	30	34	28	24	40	44	40	41	32	33	24	32	26	22	25	26	33	29	25	25	16	1	2	1	19	29.8
Cedar Rapids	Maximum	71	68	72	69	66	58	61	60	50	49	60	64	63	59	63	50	57	40	42	52	40	38	50	40	49	43	29	24	25	32	40	51.1
	Minimum	54	51	52	49	37	38	32	38	33	20	38	44	42	41	29	34	23	29	25	22	19	20	22	34	25	26	18	3	0	−2	12	29.3
Davenport	Maximum	66	72	69	64	60	54	56	55	43	49	53	57	59	59	61	50	52	50	39	46	41	36	52	42	50	44	33	27	24	32	43	49.6
	Minimum	59	56	61	46	44	42	37	41	33	30	43	49	49	42	38	37	32	32	30	29	28	28	34	36	33	29	21	11	12	15	22	35.5
Des Moines	Maximum	67	66	71	65	60	55	52	46	43	51	57	58	57	57	65	50	52	44	45	50	52	46	47	40	46	44	30	25	23	32	42	49.6
	Minimum	51	58	62	49	42	39	36	37	33	28	42	50	44	38	36	37	28	31	29	26	30	29	34	35	29	25	14	7	11	8	21	33.5
Ft. Dodge	Maximum	66	62	65	63	61	54	45	46	41	50	63	57	64	56	67	58	52	45	43	47	50	48	42	40	43	44	28	23	27	31	42	49.1
	Minimum	44	50	54	46	35	32	27	35	28	21	39	42	35	43	31	33	21	19	20	19	23	23	30	32	22	25	16	1	−2	−4	18	28.0
Grinnell	Maximum	73	67	70	69	60	58	54	53	44	52	57	59	66	59	64	61	53	48	44	48	48	45	49	44	47	49	34	24	26	33	43	51.6
	Minimum	51	55	59	52	38	36	33	38	32	24	40	47	43	48	32	37	25	32	26	23	25	24	30	34	25	28	18	2	5	6	17	31.8
Guthrie Center	Maximum	65	68	69	67	58	54	48	48	42	51	56	56	61	56	66	59	50	48	41	49	52	51	50	40	44	42	35	22	22	27	45	49.7
	Minimum	44	53	58	50	40	33	31	35	28	23	40	45	36	45	32	34	24	32	26	23	27	25	34	32	25	28	18	2	3	0	23	30.9
Iowa City	Maximum	67	71	72	66	59	56	57	53	42	50	53	58	57	58	63	50	52	43	40	46	39	37	50	43	50	43	31	25	24	33	42	49.4
	Minimum	58	55	60	53	39	42	33	42	36	24	40	47	48	46	31	39	26	30	27	24	23	24	26	37	27	29	20	8	5	4	15	32.8
Iowa Falls	Maximum	65	61	65	64	60	60	44	45	42	48	59	57	62	56	65	56	52	45	41	47	44	38	44	39	43	41	26	22	25	28	40	47.9
	Minimum	47	51	56	50	36	35	32	39	33	23	41	45	44	46	33	34	22	29	26	24	19	20	31	34	26	26	18	1	−1	−5	19	29.8
Little Sioux	Maximum	71	68	74	68	59	55	54	48	50	55	63	64	60	58	70	56	53	45	47	51	67	67	50	40	50	44	32	21	32	34	46	53.3
	Minimum	45	55	57	49	40	34	33	35	25	25	41	45	35	41	31	36	23	32	25	22	26	31	36	33	24	26	15	−5	10	5	22	30.7
Marshalltown	Maximum	68	63	71	65	60	54	51	47	43	50	57	60	55	57	64	54	52	44	43	47	44	41	48	39	45	42	27	26	23	33	42	48.9
	Minimum	50	53	57	52	40	35	32	39	33	25	41	47	41	45	34	37	27	30	27	26	27	24	30	34	27	27	20	3	4	−3	19	31.7
Olin	Maximum	65	66	65	64	64	55	56	56	43	49	54	61	60	59	60	52	53	43	40	48	40	36	50	44	49	43	30	27	27	34	40	49.5
	Minimum	58	53	59	54	38	44	32	40	35	22	36	46	46	50	30	35	25	28	27	22	19	20	25	38	29	30	19	4	2	0	10	31.5
Sioux City	Maximum	61	65	58	63	58	50	46	43	43	52	59	50	55	52	65	45	50	44	43	48	56	62	44	38	48	37	27	18	21	32	42	47.6
	Minimum	41	53	51	43	42	33	38	35	27	29	42	43	33	38	35	33	29	29	26	20	35	36	37	32	29	24	11	6	5	6	23	31.1
Southern Division																																	
Albia	Maximum	66	69	71	67	62	55	61	52	44	52	57	57	56	60	65	51	52	45	44	51	52	45	48	42	51	44	33	29	24	34	43	51.0
	Minimum	55	59	60	52	41	43	34	39	33	24	41	41	49	45	35	39	27	33	27	25	27	28	33	34	28	27	20	12	14	5	19	33.8
Atlantic	Maximum	65	65	66	65	58	53	50	47	43	51	57	55	59	54	65	55	51	44	43	47	56	57	51	38	46	44	31	23	23	28	40	49.4
	Minimum	48	57	60	51	41	35	33	34	28	22	40	47	38	38	32	36	26	30	26	21	27	30	36	33	27	30	23	2	10	1	20	31.7
Burlington	Maximum	66	71	72	65	61	56	61	55	47	52	54	57	57	58	62	54	52	51	42	50	45	42	52	46	49	46	38	32	30	34	43	51.6
	Minimum	58	60	62	57	43	48	38	43	37	28	41	48	49	51	37	45	32	37	29	28	29	29	32	39	31	33	22	12	14	10	19	36.8
Columbus Jct.	Maximum	66	71	70	66	61	55	56	54	44	50	53	55	55	57	62	56	56	46	40	47	42	40	50	47	47	43	34	29	21	32	41	49.9
	Minimum	58	56	61	53	40	44	34	41	35	25	40	48	48	49	39	46	29	32	28	26	24	26	27	37	29	29	20	8	9	6	16	34.3
Corning	Maximum	72	73	70	74	60	57	55	55	46	45	57	53	56	58	65	----	54	48	49	51	60	57	50	48	47	47	39	20	30	32	53	52.7[a]
	Minimum	52	51	56	48	32	39	32	35	28	23	36	48	42	41	50	----	23	23	23	25	25	29	29	33	27	25	19	8	11	−3	10	30.7[a]
Corydon	Maximum	71	70	71	66	61	55	61	55	45	51	57	54	60	60	65	55	51	45	48	53	56	49	45	41	48	45	36	30	25	34	43	51.8
	Minimum	55	52	61	53	40	43	34	41	31	26	41	48	48	47	35	35	26	32	26	25	28	26	35	33	33	29	20	8	14	−1	18	33.6
Fairfield	Maximum	63	70	72	66	67	54	62	53	44	52	56	56	56	57	62	57	52	47	42	50	47	42	50	44	50	45	35	29	23	33	41	50.9
	Minimum	58	58	62	49	37	43	33	42	33	22	40	47	48	43	33	40	27	32	28	25	21	30	26	37	29	27	19	9	11	1	17	33.1
Keokuk	Maximum	66	75	69	66	62	56	61	58	42	53	55	55	60	60	62	54	53	54	45	49	49	44	52	45	50	48	42	29	22	32	47	52.1
	Minimum	59	61	63	49	44	44	39	42	33	29	45	49	50	44	39	37	33	31	29	29	32	31	33	37	32	26	21	14	17	13	20	36.3
Lamoni	Maximum	69	70	69	65	59	56	57	52	42	50	51	52	58	56	61	46	48	44	43	49	57	50	46	41	46	45	37	24	28	42	49	49.6
	Minimum	54	56	61	52	39	42	34	40	30	23	40	47	48	45	35	38	26	31	25	22	25	27	36	33	26	29	20	7	11	−1	13	32.7
Sigourney	Maximum	68	68	69	66	60	55	56	53	43	49	54	54	55	58	62	54	51	44	43	49	49	42	49	47	47	44	33	27	23	33	42	49.9
	Minimum	37	59	61	54	39	41	34	42	34	23	40	47	48	49	33	41	27	32	27	23	23	30	27	36	28	29	19	6	8	4	17	32.8
Thurman	Maximum	65	67	72	67	62	56	53	50	45	53	60	55	57	56	66	57	53	48	40	49	64	60	38	48	48	46	35	25	25	30	44	51.4
	Minimum	52	57	61	55	37	38	33	38	29	24	42	49	47	47	32	42	25	34	25	20	21	38	35	27	32	32	22	10	14	−5	22	33.5
Winterset	Maximum	66	65	68	65	59	55	52	50	42	51	56	55	52	58	65	56	52	42	46	51	55	50	45	40	44	44	32	23	23	32	42	49.6
	Minimum	50	58	62	52	42	39	32	40	30	25	41	48	44	42	35	39	25	35	24	25	29	28	34	34	28	32	20	3	8	8	20	33.3
Omaha	Maximum	68	66	66	64	59	56	49	47	43	53	57	56	56	54	68	54	53	44	45	48	62	65	52	38	48	41	35	22	21	31	44	50.5
	Minimum	49	57	54	52	47	35	37	36	30	30	43	47	42	43	42	36	33	30	27	31	37	40	37	34	32	30	15	8	12	11	23	34.8

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

TOTAL PRECIPITATION, OCTOBER, 1925



Scale of shades in inches

Less than 1	1 to 2	2 to 3	3 to 4	More than 4

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. XXXVI DES MOINES, IOWA, NOVEMBER, 1925 NO. 11

GENERAL SUMMARY

Following the coldest October of record, nearly normal temperature prevailed during November but there was a decided deficiency in precipitation over each division of the State. There were numerous fluctuations in temperature so that there were neither protracted periods of warm or cold weather. The coldest weather prevailed generally on the 7th and 8th, and another cool period occurred during the last week. The warmest period occurred during the third week and another rather warm spell occurred in the second week. Zero weather occurred in each division but a rather singular situation prevailed in that only one station in the northern division reported as low as zero, while six stations in the central division and seven in the southern reported zero or lower.

Conditions were favorable for all out door work, except for short periods following the heavy falls of snow over the eastern and most of the southern divisions on the 7th and the last week of the month. Corn husking which had made very poor progress was pushed rapidly after the first week, and with sunshine considerably above normal and very little precipitation during the rest of the month, only about 15 per cent was still in the fields at the end of the month. Building operations were carried on during most of the month with little interruption but road construction was interrupted by hard freezing weather and was carried on under difficulties and some construction had to be suspended. Plowing, which had been suspended because of frozen soil in October, was resumed when frost left the ground before the middle of November.

There was a decided deficiency in precipitation, and only two stations in the entire State showed an excess. Most of the precipitation was snow, which occurred in two principal storms. The first storm, in the last part of the first week, occurred mostly south of a line running from Mills to Clayton counties, and the other, during the last week, occurred north of a line running from Des Moines to Plymouth counties, leaving a large area in the west-central portion of the state with practically no snow. There is still a shortage of water in portions of the western half of the State, where the drouth had been only partially relieved, and additional wells failed during the month.

Rather strong winds occurred on the 21st and 22nd that blew down some corn and frail buildings and, also, caused some drifting of soil, but the month was generally free from damaging storms and what drifting snow occurred was not sufficient to interrupt railway traffic and caused only slight inconvenience to motor travel.

Because of the unfavorable fall, considerable acreage intended for winter wheat could not be seeded, and considerable late seeded wheat failed to germinate or made little showing above ground. In general, the crop did not enter the winter in resistant condition.

F. L. D.

TEMPERATURE

The mean temperture for the State, as shown by the records of 106 stations, was 36.1°, or 0.5° lower than the normal. By divisions, approximately three tiers to the division, the means were as follows: Northern, 34.3°, or 0.1° lower than the normal; Central, 36.4°, or 0.3° lower than the normal; Southern, 37.7°, or 1.0° lower than the normal. The highest monthly mean was 39.6°, at Keokuk, and the lowest was 32.6°, at Northwood. The highest temperature reported was 68°, at Little Sioux on the 20th and Tipton on the 21st, and the lowest was —6 at Thurman and Williamsburg on the 8th. The temperature range for the State was 74°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 110 stations, was 0.71 inch, or 0.85 inch less than the normal. By divisions, the average were as follows: Northern, 0.86 inch, or 0.66 inch less than the normal; Central, 0.65 inch, or 0.93 inch less than the normal; Southern, 0.62 inch, or 0.95 inch less than the normal. The greatest amount, 2.30 inches, occurred at Maquoketa, and the least, 0.10 inch occurred at Logan. The greatest amount in any 24 consecutive hours, 1.26 inches, occurred at Decorah on the 4th.

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
1890	38.6	+2.0	78	-2	1.46	—0.10	3.55	0.71	------	3	15	8	7
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	0.05	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	34.3	—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	16	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	7
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

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

Climatological Data for November, 1925

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	52	35.2	+ 0.6	62	20	5	28	33	0.21	—1.15	0.12	2.0	2	22	3	5	se.	W. E. Laird
Allison (near)	Butler	1,044	13	34.5	0.0	64	20	4	28	34	0.88	—0.68	0.50	4.0	4	13	9	8	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	35.1	+ 1.2	62	20	8	8	32	0.93	—0.49	0.56	5.0	4	16	9	5	nw.	D. E. Hadden
Alton	Sioux	1,305	20	34.2	+ 0.6	63	20	7	28	37	0.58	—0.79	0.30	3.0	4	8	15	7	se.	W. S. Slagle
Belmond	Wright	1,205	15	34.0	— 0.2	63	20	4	28	34	0.79	—0.86	0.42	3.7	5	9	15	6	s.	Geo. P. Hardwick
Britt	Hancock	1,236	38	34.2	+ 0.7	64	20	1	28	35	0.80	—0.65	0.48	4.0	3	17	6	7	nw.	Jas. S. Ross
Charles City	Floyd	1,015	34	33.6	+ 0.6	62	20	6	28	34	1.15	—0.45	0.61	6.5	5	14	9	7	se.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	34.3	------	63	20	7	8†	26	0.38	------	0.20	2.5	3	14	11	5	s.	J. E. Wirth
Decorah	Winneshiek	875	32	33.0	— 1.7	63	13	1	28	36	2.20	+0.36	1.26	7.0	5	19	2	9	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	35.7	— 1.3	60	20	10	28	30	1.28	—0.55	0.42	11.0	6	10	8	12	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	33.0	— 1.0	60	10	4	28	35	0.53	—0.78	0.25	2.0	4	15	9	6	nw.	A. O. Peterson
Fayette	Fayette	1,003	37	34.4	+ 0.3	63	20	0	28	38	1.14	—0.58	0.59	8.0	5	16	4	10	se.	R. Z. Latimer
Forest City	Winnebago	1,226	31	34.4	+ 0.9	65	20	2	28	38	0.46	—1.09	0.35	3.7	4	17	4	9	se.	Dr. M. B. Neil
Hampton	Franklin	1,145	----	34.1	— 1.3	64	20	5	28	36	0.73	—0.87	0.50	4.0	4	16	5	9	nw.	L. H. Davis
Humboldt	Humboldt	1,095	37	35.6	0.0	65	20	5	28	41	0.98	—0.69	0.62	3.0	4	13	8	9	w.	H. C. Snitkey
Independence	Buchanan	921	61	35.8	— 0.7	61	20	7	8	34	0.96	—0.48	0.45	6.8	5	14	6	10	sw.	Dr. Geo. Boody
Inwood	Lyon	1,474	21	33.6	+ 0.6	63	20	6	8†	38	0.72	—0.40	0.37	3.0	4	19	6	5	nw.	A. C. Hanson
Lansing	Allamakee	632	18	------	------	------	------	------	------	------	1.34	—0.61	0.68	5.3	5	----	----	----	------	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	29	35.2	+ 0.2	64	20	7	28	35	0.60	—0.53	0.44	2.5	4	20	4	6	sw.	Mrs. M. C. Wooley
Mason City	Cerro Gordo	1,148	28	33.6	+ 0.1	63	20	2	28	37	0.78	—0.70	0.50	5.5	4	11	15	4	s.	Amer. Beet Sugar Co
Milford (near)	Dickinson	1,430	5	33.3	------	63	20	4	8†	40	0.18	------	0.10	1.0	2	12	11	7	nw.	W. J. Hunt
New Hampton	Chickasaw	1,169	28	33.7	— 0.4	60	20	4	28	32	1.32	—0.37	0.60	7.0	6	18	3	9	n.	E. J. Fueling
Nora Springs	Floyd	1,064	13	35.4	— 0.8	63	20	2	28	37	1.74	—0.26	0.80	6.2	9	15	9	6	s.	Arthur Betts
Northwood	Worth	1,222	29	32.6	+ 0.2	60	20	4	28	32	1.15	—0.82	0.53	6.2	5	13	10	7	nw.	Chas. Dwelle
Oelwein	Fayette	1,036	1	34.8	------	61	20	4	28	35	------	------	------	------	----	16	5	9	w.	John T. Ridler
Osage	Mitchell	1,163	----	32.8	------	61	20	2	28	32	1.41	------	0.82	5.7	5	10	9	11	s.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	35.2	+ 0.5	65	20	5	8†	38	0.37	—1.31	0.18	2.3	3	16	6	8	sw.	F. E. Hronek
Postville	Clayton	1,180	26	32.8	— 1.2	60	20	7	8†	34	1.51	—0.18	0.81	6.5	4	14	6	10	s.	F. L. Williams
Rock Rapids	Lyon	1,358	26	33.4	+ 0.2	60	20	6	28	35	0.96	—0.23	0.52	4.1	4	23	2	5	se.	J. K. Medberry
Sanborn	O'Brien	1,553	11	33.6	+ 1.1	63	20	3	27	37	0.60	—0.70	0.30	3.0	2	20	5	5	nw.	J. W. Dow
Sheldon	O'Brien	1,418	0	34.6	------	64	20	7	28	36	0.70	------	0.44	2.0	3	17	7	6	nw.	Ross E. Forward
Sioux Center	Sioux	1,420	26	33.8	+ 0.3	64	20	7	27†	38	0.81	—0.37	0.47	3.0	4	18	1	11	n.	J. de Ruyter
Spencer	Clay	1,319	11	33.8	+ 0.2	62	20	5	8	38	0.74	—0.56	0.50	3.0	3	17	6	7	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	37.0	+ 1.4	62	20	9	8	31	0.62	—0.68	0.21	3.0	4	18	4	8	nw.	Geo. H. Fracker
Washta	Cherokee	1,157	27	35.3	+ 0.3	64	20	4	28	47	0.29	—1.03	0.16	2.0	2	19	5	6	n.	H. L. Felter
Waterloo	Black Hawk	854	42	35.6	— 0.5	64	20	5	28	39	0.60	—0.89	0.33	5.5	3	20	1	9	se.	R. B. Slippy
Waverly	Bremer	936	29	------	------	------	------	------	------	------	------	------	------	------	----	----	----	----	------	D. H. Murphy
West Bend	Palo Alto	1,197	32	34.8	+ 0.7	63	20	5	28	38	0.61	—0.88	0.25	2.0	4	14	9	7	nw.	Jos. Dorweiler
Means and extremes	------	------	----	34.3	— 0.1	65	20	0	28	47	0.86	—0.66	1.26	4.3	4	15	7	8	nw.	
Central Division																				
Ames	Story	926	48	36.6	+ 0.7	64	20	9	28	37	0.48	—0.58	0.24	2.8	4	16	6	8	n.	Iowa State College
Audubon	Audubon	1,297	30	35.8	+ 1.0	63	11	7	8	38	0.16	—1.17	0.08	T.	3	19	4	7	sw.	Geo. Kibby
Baxter	Jasper	998	25	35.6	— 1.6	62	20	4	8	35	0.15	—1.28	0.06	0.3	4	14	8	8	s.	Henry Geise
Belle Plaine	Benton	866	35	36.0	— 1.0	65	20	—2	7	40	0.96	—0.73	0.59	9.3	6	9	11	10	s.	O. C. Burrows
Boone (near)	Boone	1,134	20	36.2	— 0.4	64	20	7	28	42	0.55	—0.82	0.20	1.0	5	12	9	9	s.	C. F. Henning
Carroll	Carroll	1,265	35	37.0	+ 0.9	63	11	9	8†	36	0.36	—0.96	0.21	T.	2	19	4	7	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	33.6	— 4.2	60	20	—2	8	39	0.67	—0.98	0.39	9.2	4	15	3	12	sw.	J. T. Wurster
Clinton	Clinton	595	52	36.2	— 1.7	60	21	0	8	33	1.79	—0.10	0.80	10.0	5	17	5	8	sw.	Dr. A. P. Bryant
Davenport	Scott	580	54	37.2	— 1.8	60	20	9	8	29	1.10	—0.70	0.65	10.8	4	13	7	10	nw.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690	----	37.5	------	60	20†	5	8	31	1.23	------	0.45	10.3	6	----	----	----	------	Rex Shriver
Denison	Crawford	1,171	31	37.1	+ 1.5	63	20	10	8	35	0.29	—1.04	0.15	T.	3	15	7	8	nw.	V. L. Byers
Des Moines	Polk	861	47	37.8	— 0.6	64	20	7	8	34	0.32	—1.15	0.21	2.2	5	12	7	11	sw.	U. S. Weather Bureau
Fairport	Muscatine	567	4	37.8	------	60	11†	3	8	32	1.03	------	0.43	5.0	5	11	6	13	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	35.7	+ 0.4	65	20	5	28	39	0.39	—1.19	0.25	4.0	2	15	1	14	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	37.4	— 0.3	65	20	3	8	37	0.37	—1.32	0.14	4.0	3	6	16	8	nw.	Paul P. Meyers
Grundy Center	Grundy	976	34	35.2	—11	64	20	3	8	34	0.98	—0.46	0.45	5.7	4	15	5	10	n.	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	37.4	+ 0.4	66	11	9	8	36	0.85	—0.60	0.70	0	4	18	4	8	sw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	34.4	— 1.4	63	11	9	7	46	0.35	—1.11	0.20	------	2	8	18	4	n.	Nels Bisgard
Iowa City	Johnson	733	65	35.5	— 2.1	60	20	0	8	35	1.00	—1.17	0.48	8.0	5	16	8	6	se.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	35.1	— 0.2	64	20	5	29	40	0.54	—1.06	0.25	2.7	5	14	7	9	s.	J. B. Parmelee
Jefferson	Greene	1,052	26	35.1	— 1.1	63	11	8	8†	40	0.30	—1.63	0.10	1.0	3	16	6	8	sw.	W. I. Lyon
Kalo	Webster	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	S. C. Fuller
Le Claire	Scott	576	25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Margaret T. Dismey
Little Sioux	Harrison	1,040	20	39.2	+ 2.7	68	20	9	8	38	0.33	—1.24	0.28	T.	3	19	5	6	nw.	H. W. Kerr
Logan	Harrison	1,035	58	38.6	+ 1.3	66	11	9	8	42	0.10	—1.30	0.10	0	1	19	3	8	sw.	Mary Jean Stern
Maquoketa	Jackson	692	----	34.2[a]	------	59[a]	20	3[a]	8	38[a]	2.30	------	0.80	8.6	6	----	----	----	nw.	John Strodthoff
Marshalltown	Marshall	947	33	36.4	— 1.0	62	11†	8	8	31	0.55	—0.97	0.16	3.8	7	16	4	10	nw.	C. C. Pigman
Monroe	Jasper	922	13	37.2	— 1.8	66	20	1	8	37	0.60	—0.90	0.31	6.3	4	18	1	11	s.	J. A. Dibel
Muscatine	Muscatine	544	64	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	Wm. Molis
Olin	Jones	760	26	34.6	— 1.7	58	5†	—5[a]	8	39[a]	1.70	+0.08	0.90	8.0	3	16	3	11	nw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	37.4	+ 1.7	65	20	10	8	33	0.21	—1.17	0.21	0	2	19	3	8	s.	Mrs. H. E. Colby
Perry	Dallas	975	24	35.6	— 1.4	65	11	9	28	42	0.41	—1.11	0.16	0.2	4	17	4	9	s.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	34.6	— 1.1	60	4†	8	8†	40	0.21	—1.49	0.20	2.0	2	13	11	6	nw.	A. W. McIsaac
Sac City	Sac	1,278	49	35.4[a]	— 0.1	64[a]	20	8[a]	28	34[a]	0.53	—0.77	0.30	3.0	3	----	----	----	s.	F. P. Kessler
Sioux City	Woodbury	1,135	36	37.1	+ 1.9	65	20	13	27	32	0.38	—0.67	0.19	0.2	4	12	12	6	nw.	U. S. Weather Bureau
Tipton (near)	Cedar	807	26	36.0	— 1.4	68	21	2	8	43	1.15	—0.72	0.40	8.0	3	12	12	6	s.	John Kroeplen
Toledo	Tama	856	31	35.9	— 2.0	64	20	3	8	38	0.53	—1.07	0.20	4.5	3	18	2	10	sw.	I. F. Giger
Van Meter	Dallas	872	6	----	----	----	----	----	----	----	0.30	----	0.20	2.0	2	----	----	----	----	Calvin K. Smith
Waukee	Dallas	1,039	22	36.6[b]	— 0.5	64[b]	20	4[b]	8	35[c]	0.26	—1.31	0.10	0.9	6	18	4	8	sw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	34.9	— 0.7	65	20	4	28	41	0.32	—1.29	0.22	3.0	3	15	6	9	se.	Frank A. Bonebright
Williamsburg	Iowa	765	9	34.4	— 2.1	62	20	—6	8	40	0.65	—1.05	0.39	5.1	4	16	8	6	nw.	Dr. F. C. Schadt
Means and extremes	------	------	----	36.4	— 0.3	68	20†	—6	8	46	0.65	—0.93	0.90	3.8	4	15	6	9	nw.	

Climatological Data for November, 1925—Continued

Stations	COUNTIES	Elevation, feet	Length of record, years	Temperature, in Degrees Fahrenheit: Mean	Departure from normal	Highest	Date	Lowest	Date	Greatest daily range	Precipitation, in inches: Total	Departure from normal	Greatest in 24 hours	Total snowfall (unmelted)	Number of Days: Precipitation, .01 in. or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind	Observers
Southern Division																				
Afton	Union	1,212	31	37.9[a]	— 0.6	66[a]	12	3[a]	8	36[a]	0.39	—1.04	0.20	3.0	4				sw.	S. R. Brown
Albia	Monroe	959	27	38.4	+ 0.2	65	20	1	8	35	0.51	—1.05	0.51	6.0	2	16	8	6	nw.	O. E. McBride
Atlantic	Cass	1,164	34	37.0	— 0.5	63	11	8	8	39	0.25	—1.05	0.10	1.1	6	13	6	11	sw.	T. H. Whitney
Bonaparte (near)	Van Buren	563	34	37.4	— 2.2	63	20	3	8	37	0.96	—0.84	0.67	4.0	4	17	3	10	sw.	B. R. Vale
Burlington	Des Moines	544	29	38.5	— 2.6	61	21	8	8	28	1.38	—0.48	1.13	4.8	7	19	1	10	sw.	John W. Donnelly
Centerville	Appanoose	1,013	20	37.8	— 1.7	61	20	1	8	33	0.57	—0.87	0.41	4.2	6	14	6	10	nw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	38.3	— 0.4	62	11	—1	8	35	0.38	—1.08	0.38	2.0	1	19	2	9	sw.	C. C. Burr
Clarinda	Page	1,009	35	37.8	— 1.9	64	11†	1	8	38	0.44	—1.08	0.33	4.0	4	18	9	3	s.	Dr. H. C. Hawley
Columbus Jct.	Louisa	595	24	36.8	— 2.8	61	20	3	8	34	1.21	—0.53	0.53	5.3	4	13	7	10	sw.	Miss Musa Todd
Corning (near)‡‡	Adams	1,117	33	------	------	------	------	------	—3	8	0.80	—0.67	0.50	3.0	2	23	0	7	sw.	Jerome Smith
Corydon	Wayne	1,101	32	39.0	+ 0.2	64	20	1	8	34	0.50	—1.00	0.50	5.0	1	18	6	6	sw.	A. T. Gallagher
Creston	Union	1,312	20	37.5	— 0.7	61	20	2	8	40	0.21	—1.51	0.16	2.0	2	22	4	4	sw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26	------	------	------	------	------	------	------	0.13	—0.96	0.08	1.0	2	16	4	10	nw.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	38.2	+ 1.0	63	11†	0	8	37	0.71	—0.95	0.40	4.0	2	17	3	10	sw.	Geo. Phillips
Fairfield	Jefferson	780	41	36.4	— 2.1	61	4†	2	8	40	0.89	—1.27	0.62	6.2	5	15	4	11	s.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	38.2	— 0.4	66	20	8	8	34	0.30	—0.85	0.15	0.5	4	12	13	5	nw.	Dr. Geo. Mogridge
Indianola	Warren	972	34	37.6	— 0.7	64	20	1	8	36	0.31	—1.26	0.30	3.0	2	16	8	6	sw.	Seth F. Shenton
Keokuk	Lee	614	54	39.6	— 1.5	66	21	9	8	30	1.04	—0.88	0.84	4.7	5	9	14	7	s.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	36.4	— 2.6	60	4†	3	8	34	0.89	—0.72	0.60	7.5	4	14	9	7	se.	J. H. Landes
Knoxville	Marion	920	30	37.6	— 1.2	65	20	0	8	41	0.46	—1.10	0.40	4.0	2	14	7	9	nw.	W. J. Casey.
Lacona	Warren	824	26	------	------	------	------	------	------	------	0.79	—0.89	0.60	6.0	8	11	10	9	------	J. B. Alter
Lamoni	Decatur	1,123	18	36.8	— 1.9	62	11†	—1	8	37	0.57	—0.87	0.54	5.0	4	18	4	8	se.	F. S. Parks
Lenox	Taylor	1,250	30	38.0	— 0.2	64	11†	1	8	35	0.52	—0.95	0.25	2.5	4	17	7	6	nw.	J. L. Hurley
Mt. Ayr	Ringgold	1,245	32	37.4	— 1.4	63	11†	—4	8	35	0.59	—0.95	0.55	5.6	3	19	2	9	nw.	Alex Maxwell
Mt. Pleasant	Henry	729	44	37.8	— 1.9	64	20	4	8	35	0.88	—0.93	0.50	4.5	3	14	7	9	se.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	36.4[e]	— 1.1	65[f]	11	8[d]	8	47[f]	0.44	------	0.22	------	2	------	------	------	n.	M. E. Gray
Oskaloosa	Mahaska	835	49	37.2	— 1.3	65	20	—1	8	38	0.47	—1.13	0.38	5.1	3	15	6	9	nw.	Roy R. Robinson
Ottumwa	Wapello	649	30	38.3	------	64	11†	0	8	40	0.87	—0.51	0.61	4.3	3	19	3	8	se.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030	----	------	------	------	------	------	------	------	0.70	------	0.30	------	3	10	16	4	s.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	36.4	— 1.8	63	20	2	8	36	0.87	—0.78	0.60	6.6	4	13	7	10	nw.	W. E. Utterback
Stockport	Van Buren	747	23	36.0	— 2.4	67	20	1	8	46	0.84	—0.80	0.41	5.0	5	14	6	10	s.	C. L. Beswick
Thurman	Fremont	975	28	38.4	+ 1.0	65	4	—6	8	48	0.22	—1.63	0.22	2.0	1	15	10	5	nw.	C. R. Paul
Tingley	Ringgold	1,275	----	37.6	------	63	10	1	8	34	0.32	------	0.23	4.5	2	19	6	5	nw.	James A. VerPloegh
Washington	Washington	769	43	36.8	— 1.9	60	13	2	8	41	1.30	—0.37	0.68	7.0	4	17	0	13	sw.	D. D. Sherman
Wescott (near)	Lee	523	3	38.0	------	63	10	9	8	32	1.05	------	1.05	4.0	1	18	5	7	sw.	Lester J. Larson
Winterset	Madison	1,129	34	39.0	+ 0.6	64	11†	5	8	34	0.43	—1.04	0.40	4.0	2	21	1	8	sw.	H. S. Ely
Omaha, Nebr.	----------	1,103	54	40.2	+17	66	20	17	8	30	0.12	—0.94	0.10	T.	3	19	3	8	nw.	U. S. Weather Bureau
Means and extremes	----------	------	----	37.7	— 1.0	67	20	—6	8	48	0.63	—0.94	1.13	4.0	3	16	6	8	nw.	
State means and extremes	----------	------	----	36.1	— 0.5	68	20†	—6	8	48	0.71	—0.85	1.26	4.0	4	15	6	9	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): Mean	Highest	Date	Lowest	Date	Relative Humidity, %: Mean 7 a. m.	Mean 12 Noon‡	Mean 7 p. m.	Lowest	Date	Wind: Total movement	Average hourly velocity	Maximum: Miles	From	Date	Sunshine: Per cent of possible	Departure from normal
Charles City	30.09	30.58	28	29.56	12	88	59	72	29	20	5,235	7.3	25	nw.	21	60	+13
Davenport	30.11	30.60	28	29.49	12	85	65	72	42	24	5,058	7.0	26	nw.	21	52	+ 2
Des Moines	30.09	30.56	28	29.54	12	82	57	64	26	20	4,952	6.9	26	ne.	†7	61	+ 5
Dubuque	30.08	30.58	28	29.52	12	83	63	70	35	23	4,701	6.5	30	nw.	21	53	+ 7
Keokuk	30.13	30.60	28	29.52	12	78	56	68	25	23	5,599	7.8	26	nw.	21	61	+ 6
Sioux City	30.10	30.53	28	29.62	12	75	56	57	26	20	7,999	11.1	47	nw.	21	63	+10
Omaha, Neb.	30.10	30.53	27	29.57	12	72	53	53	18	20	5,800	8.1	43	n.	21	58	+ 3
Means and extremes	30.10	------	----	------	----	80	58	65	----	----	------	78	----	------	----	58	+ 6
	------	30.60	28	29.49	12	---	---	---	18	20	------	----	47	nw.	21	----	----
Normals and records	30.07	------	2d	------	28th	81	---	70	----	6th	------	82	----	------	10th	52	----
	------	*30.96	1896	§29.03	1918	---	---	---	¶16	1916	------	----	‖63	sw.	1919	----	----

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

SNOWFALL

The average snowfall for the State was 4.0 inches, or 1.5 inches more than the normal. The amounts were quite uniform in each of the three divisions, but there was a decided contrast in the eastern and western portions. A rather large area over the western portions of the State reported only traces, while several stations over the east-central and northeastern portions reported more than 10.0 inches. Practically all the snow occurred during two storms, the first on the 6th and 7th and the other beginning on the 27th that lasted in the eastern portion till the 29th. The ground was bare except for short periods following these storms and another at the beginning of the month.

MISCELLANEOUS PHENOMENA

Aurora: 7th, 8th, 9th.

Fog: 1st, 2d, 3d, 5th, 6th, 10th, 11th, 12th.

Hail: 12th.

Halos (lunar and solar): 17th, 18th, 24th, 25th, 26th, 27th, 28th, 29th.

Haze: 23d, 28th.

Rainbow: 3d.

Sleet: 7th, 15th, 16th, 26th, 28th, 29th, 30th.

Thunderstorms: 3d, 4th, 12th.

Winds (strong): 21st, 22d.

Daily Precipitation for November, 1925

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	
Northern Division																															
Algona	Des Moines				.12											.05												.09			0.21
Allison (near)	Cedar			T.	.27	.06																					T.		.50		0.88
Alta	Raccoon			.15	.12								.10			T.											T.		.56		0.93
Alton	Floyd			.02	.26								T.			T.						T.	T.				T.		.20	.10	0.58
Belmond	Iowa				.42											.01							T.				.01		.20	.15	0.79
Britt	Iowa			T.	.48											T.													.08	.24		0.80
Charles City***	Cedar			.06	.55											T.	T.					T.	T.				T.		.20	.25	.09	1.15
Cherokee	Little Sioux			.08	.10								T.			T.							T.		T.		T.		.20	T.		0.38
Decorah	Mississippi				1.26	.23																	T.				.15			.40	.16	2.20
Dubuque***	Mississippi				.24	T.		.42					.20		T.	T.	T.		T.			T.	T.				.02		.05	.35	T.	1.28
Estherville	Des Moines			.05	.25																	.03								.20		0.53
Fayette	Mississippi				.35			.05								T.						T.	T.				.13			.59	.07	1.19
Forest City	Cedar			T.	.07	.02										T.	T.				T.	T.						.02	.35		0.46
Hampton	Cedar			T.	.20	.03										T.							T.				T.		*	.50		0.73
Humboldt	Des Moines			.12	.62											T.						T.	T.				T.		.20	.04		0.98
Independence	Wapsipinicon				.28			.08	.04							T.							T.				T.	T.		.45	.11	0.96
Inwood	Big Sioux			.04	.37	.01										T.											T.		.30	T.	T.	0.72
Lansing‖	Mississippi				.68	.12			T.														T.					.09		.30	.15	1.34
Le Mars	Floyd			.02	.44	T.							.01			T.													.13			0.60
Mason City	Cedar			.19	.04											T.	T.					T.	T.				T.			.50	.05	0.78
Milford (near)	Little Sioux				.10																								.08			0.18
New Hampton	Wapsipinicon				.49	.12										.01											.05			.60	.05	1.32
Nora Springs	Cedar			.09	.69											.03	.01					T.	.01				.05		.03	.80	.03	1.74
Northwood	Cedar			T.	.53											T.							T.				.02		.05	.45	.10	1.15
Oelwein	Wapsipinicon																															
Osage	Cedar			T.	.82											.01						T.	T.				.03		.05	.50		1.41
Pocahontas	Des Moines			.05	.14																						T.		.18			0.37
Postville	Mississippi				.81	.05		T.									T.					T.					T.			.50	.15	1.51
Rock Rapids	Big Sioux			.03	.52																								.30	.11		0.96
Sanborn	Floyd				.30											T.													.30			0.60
Sheldon	Floyd			.06	.44	T.										T.							T.				T.		.20	T.	T.	0.70
Sioux Center	Floyd			.02	.47																		T.				.02		.30			0.81
Spencer	Little Sioux			.40	.10																								.24			0.74
Storm Lake	Raccoon			.09	.15								.21			T.											T.		.17	T.		0.62
Washta	Little Sioux			T.	.13																						T.		.16			0.29
Waterloo	Cedar				.33	T.		.05								T.											T.		T.	.22		0.60
Waverly	Cedar																															
West Bend	Des Moines			.20	.25																								.08	.08		0.61
Central Division																															
Ames	Skunk				.24	T.		T.					.04				T.										.10		.10			0.48
Audubon	Nishnabotna				.08								.05														.03	T.	T.			0.16
Baxter	Skunk				.06			.02								T.							T.				.05		.02	T.		0.15
Belle Plaine	Iowa			T.	.05	T.		.59								.02	T.						T.				.02	T.	.10	.18		0.96
Boone	Des Moines			T.	.08	.02							.20			T.											.15		.10	T.		0.55
Carroll	Raccoon			T.	.15								.21														T.		T.			0.36
Cedar Rapids	Cedar				.16	T.		.39					T.	T.													T.		.02	.10		0.67
Clinton	Mississippi				.24			.43					.80																	.28	.04	1.79
Davenport***	Mississippi				.18			.65	T.		T.		T.			T.	T.		T.				T.				T.		.08	.19	T.	1.10
Davenport (No. 2)	Mississippi				.32	.04		.45	.08				.05	T.		T.	T.											T.		.29		1.23
Denison	Missouri			.02	.12								.15																T.			0.29
Des Moines***	Des Moines			T.	.05			.21					.02			T.											.02		.02	T.		0.32
Fairport	Mississippi				.43			.20	.25				.02																	.13		1.03
Ft. Dodge	Des Moines				.14											T.											T.		.25			0.39
Grinnell	Iowa				.12	T.		.14								T.	T.										T.		T.	.11		0.37
Grundy Center	Cedar				.24			.12	T.				.17			T.	T.										T.		.45			0.98
Guthrie Center	Cedar				.03	.06	T.						.70														.06		T.			0.85
Harlan	Nishnabotna				.15								.20																			0.35
Iowa City	Iowa				.31	.03		.48			T.		.01				T.											T.	T.	.17		1.00
Iowa Falls	Iowa			T.	.18	.05							T.			T.							T.				.06		.10	.15		0.54
Jefferson	Raccoon			T.	.10			T.					T.			T.											.10		.10	T.		0.30
Kalo‖	Des Moines				T.																T.									.02		**
Le Claire‖	Mississippi																															
Little Sioux	Little Sioux			.28	.04											T.											.01		T.			0.33
Logan	Missouri			.10																												0.10
Maquoketa	Maquoketa				.52	.12		.40					.79	.01														T.		.46		2.30
Marshalltown	Iowa				.16			.12					.08			.01							T.				.02		.08	.08	T.	0.55
Monroe	Des Moines				.22			.31								T.											.03			.04		0.60
Muscatine‖	Mississippi																															
Olin	Wapsipinicon				.90			.40					T.															T.		.40	T.	1.70
Onawa	Missouri			.10	.11											T.																0.21
Perry	Raccoon			T.	.16			T.					.14			T.											.10		.01			0.41
Rockwell City	Raccoon			.01	T.																								.20			0.21
Sac City	Raccoon				.05				T.				.18																.30			0.53
Sioux City***	Missouri			.14	.03							.19				T.						T.					T.		.02			0.38
Tipton	Cedar				.35				.40																					.40		1.15
Toledo	Iowa				.17			.16																					T.	.20		0.53
Van Meter‖	Raccoon					.10			.20																							0.30
Waukee	Raccoon			.01	.02	.03		.09					.10			.01											T.		T.	T.	T.	0.26
Webster City	Des Moines				T.	.10							T.			T.							T.				T.		.12	.10		0.32
Williamsburg	Iowa				.15			.39			T.		T.														T.		.04	.07		0.65

Daily Precipitation for November, 1925—Continued

Stations	Drainage Basin	Day of Month																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Totals
Southern Division																																
Afton	Grand			.11	.05			.20																			.08					0.39
Albia	Des Moines			T.	T.	T.		.50	.01						T.	T.	T.													T.		0.51
Atlantic	Nishnabotna			.01	.07			.10					.02			.01											.04		T.			0.25
Bonaparte (near)	Des Moines			T.	.15			.67	.03						.11	T.											T.			T.		0.96
Burlington	Mississippi				.12			1.13	.02						.06	.01											.02	T.	T.	.02		1.38
Centerville	Chariton			.01	.06			.41					T.	.01	.06	T.												T.	T.	.02		0.57
Chariton (near)	Chariton			T.	T.			.38					T.			T.											T.			T.		0.38
Clarinda	Nodaway			.03	.05			.33					.03																			0.44
Columbus Jct.	Iowa				.15			.53	.20							T.														.33		1.21
Corning	Nodaway			T.	.50			.30								T.																0.80
Corydon	Chariton			T.	T.			.50							T.	T.											T.			T.		0.50
Creston	Missouri				.05			.16																								0.21
Cumberland (near)	Nodaway			.05	T.			.08					T.			T.											T.		T.			0.13
Earlham	Des Moines			T.	.31			.40					T.		T.	T.																0.71
Fairfield	Skunk				.22	.01		.62							.02	T.	T.										T.			.02		0.89
Glenwood	Missouri			.15	.08			.05																			.02					0.30
Indianola	Des Moines			T.	T.			.30					T.			T.											.01			T.		0.31
Keokuk***	Mississippi			T.	.04	T.	.01	.83					T.		.14	T.			T.								.02			T.		1.04
Keosauqua	Des Moines			T.	T.			.60	T.				T.		.25	.02	T.										.02					0.89
Knoxville	Des Moines			T.	.06	T.		.40			T.			T.		T.											T.		T.			0.46
Lacona	Des Moines			.01	.11			.60					.02	.01		.02							.01							.01		0.79
Lamoni	Grand			.01	.01			.54							T.															.01		0.57
Lenox	Missouri			.05	.20			.25					.02			T.											T.					0.52
Mt. Ayr	Grand			T.	.03			.55					T.		T.	.01											T.					0.59
Mt. Pleasant	Skunk	T.			.19			.50							.19												T.			T.	T.	0.88
Oakland	Nishnabotna		T.	.22				.22					T.																			0.44
Oskaloosa	Des Moines			T.	.07			.38	T.					T.		T.	T.										T.		T.	.02		0.47
Ottumwa	Des Moines			T.	.24			.61	T.					T.	T.	T.	T.													.02		0.87
Red Oak (near)	Missouri			.20	.20		T.	.30	T.	T.			T.							T.								T.				0.70
Sigourney	Skunk			T.	.16	T.		.60	.05		T.		T.	T.		T.	T.										T.		T.	.06		0.87
Stockport	Skunk			T.	.26			.41	T.				T.		.08	T.	T.										.04			.05		0.84
Thurman	Missouri			T.				.22								T.											T.					0.22
Tingley	Platt			T.	.09			.23																			T.	T.				0.32
Washington	Skunk			T.	.41			.68					.01			T.											T.		T.	.20		1.30
Wescott (near)	Mississippi							1.05																								1.05
Winterset	Des Moines			T.	.03			.40																			T.		T.			0.43
Omaha, Neb.***	Missouri			.09	.02			T.						T.	T.	T.											.01					0.12

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.

RIVERS

Low and nearly stationary stages prevailed on the Mississippi River during the entire month. Floating ice was present during the first part and again at the close of the month. Low stages also prevailed on all interior rivers, with only slight fluctuations and the extreme stages generally differed less than one foot. On the Missouri River moderate stages prevailed with generally little daily fluctuations except a rather marked rise occurred during the last half of the 3d week and a moderate rise at the beginning of the 2d week.

ERRATA

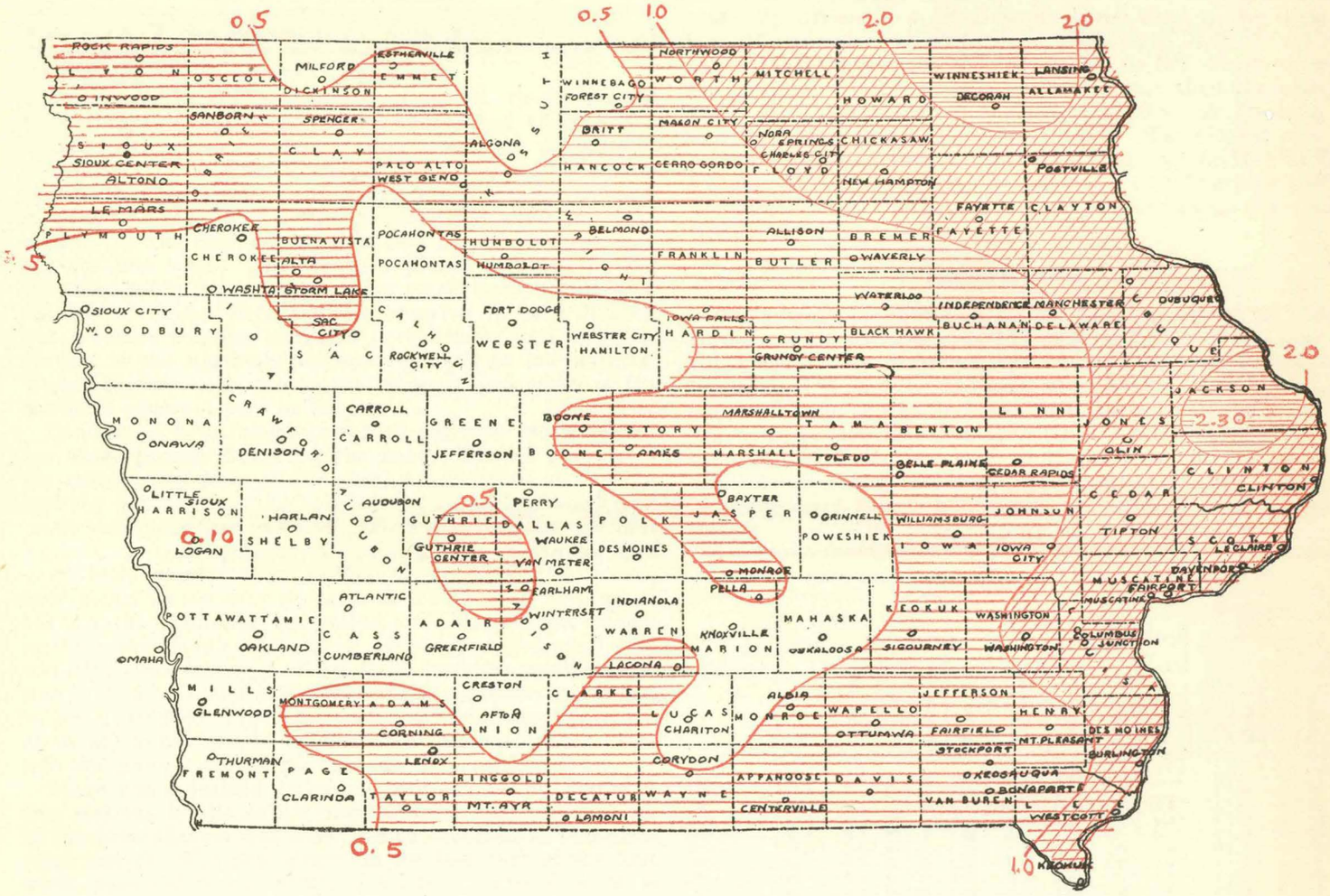
Report for October, 1925. Page 73. In the table "Comparative data for the State," the greatest precipitation for 1925 recorded 2.70 inches, should be 5.68 inches.

Daily Maximum and Minimum Temperature for the Month of November, 1925

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	Maximum	47	48	49	56	51	45	30	32	53	53	59	59	53	42	33	33	57	53	46	62	54	33	40	46	44	38	32	30	29	34	44.7
	Minimum	19	38	34	41	30	25	17	9	29	30	30	30	31	30	30	26	24	34	26	32	29	21	23	23	24	29	11	5	18	24	25.7
Alta	Maximum	50	51	45	56	48	51	26	38	57	55	60	57	55	35	32	40	57	55	51	62	46	28	40	45	47	42	25	23	32	35	44.8
	Minimum	28	30	34	31	26	26	12	8	25	31	35	40	32	29	28	26	30	33	26	32	28	14	16	27	25	24	10	10	21	24	25.4
Alton	Maximum	46	50	45	53	46	46	30	38	53	51	57	56	53	40	34	40	53	54	52	63	49	34	41	50	47	43	28	26	30	35	44.8
	Minimum	25	26	36	33	26	26	17	8	20	27	25	35	30	28	30	27	28	29	24	26	20	15	17	20	23	27	10	7	20	22	23.6
Belmond	Maximum	45	50	53	55	48	52	30	30	50	55	58	55	56	37	32	34	54	55	47	63	44	30	38	49	40	37	36	34	29	34	44.3
	Minimum	23	27	27	37	31	25	18	6	22	28	28	32	30	30	28	24	24	32	28	29	28	17	14	20	22	24	11	4	19	19	23.6
Charles City	Maximum	47	52	51	55	47	46	30	31	51	53	58	50	53	34	33	33	54	54	43	62	51	29	37	47	44	34	23	23	28	33	42.9
	Minimum	26	23	34	36	31	26	17	10	18	28	27	35	30	30	29	23	24	35	30	28	28	16	18	22	28	20	12	6	21	15	24.2
Decorah	Maximum	42	47	50	54	55	38	35	29	46	52	57	45	63	45	30	43	50	57	50	58	53	35	35	46	40	44	34	22	27	43	44.2
	Minimum	16	18	29	42	29	19	19	10	17	22	24	30	27	28	27	17	17	35	27	25	30	15	11	20	24	24	10	1	16	23	21.7
Dubuque	Maximum	49	53	52	59	56	50	44	26	41	50	55	44	56	40	34	33	48	57	42	60	58	33	35	46	43	36	34	24	28	36	44.1
	Minimum	27	25	36	45	35	30	21	13	18	28	31	35	37	31	30	25	24	39	33	30	33	20	18	29	27	27	17	10	19	26	27.3
Forest City	Maximum	48	49	49	54	55	46	32	33	55	55	56	56	47	47	33	35	54	57	47	65	53	34	39	47	43	37	33	27	26	34	45.1
	Minimum	24	25	33	40	32	23	17	6	19	28	28	33	30	28	27	25	27	32	28	27	27	15	13	20	26	27	9	2	18	23	23.7
Independence	Maximum	48	51	52	54	53	51	50	27	46	52	56	55	56	54	34	32	51	55	54	61	60	54	44	47	46	44	34	27	28	36	47.1
	Minimum	24	26	31	44	34	26	18	7	12	27	27	34	32	29	28	27	21	32	31	37	31	11	11	19	27	27	14	8	19	24	24.6
Inwood	Maximum	48	51	45	49	45	41	28	39	55	54	53	59	53	35	35	44	54	54	52	63	46	33	47	49	46	46	28	23	31	33	44.6
	Minimum	24	28	29	30	26	24	13	6	22	26	28	27	30	26	26	28	30	29	23	25	25	12	17	21	21	23	7	6	22	21	22.5
Mason City	Maximum	48	50	50	53	55	45	32	32	55	53	58	54	52	37	33	33	53	52	43	63	57	32	38	45	41	32	27	23	27	33	43.5
	Minimum	25	22	32	40	30	23	18	8	18	28	25	33	30	30	28	25	25	34	30	28	29	10	15	20	25	27	10	2	19	23	23.7
Milford (near)	Maximum	49	47	54	56	54	41	30	33	57	53	57	51	59	43	33	40	54	53	51	63	51	33	39	47	44	41	30	23	28	33	44.9
	Minimum	23	21	34	38	28	20	9	4	17	23	28	35	29	29	26	22	23	28	22	24	24	12	14	18	20	27	8	4	18	23	21.7
New Hampton	Maximum	47	51	50	54	55	44	43	30	46	54	59	44	54	43	32	32	51	54	44	60	52	35	36	48	45	35	28	23	26	33	43.6
	Minimum	17	28	31	44	31	26	20	8	16	28	30	28	29	28	25	26	20	35	31	28	29	13	15	22	27	25	10	4	18	23	23.8
Northwood	Maximum	43	47	47	53	45	43	32	30	50	51	53	53	51	36	32	32	51	53	45	60	47	31	36	45	43	36	21	26	27	32	41.7
	Minimum	23	25	32	36	28	23	17	9	19	25	25	30	31	30	28	23	21	34	30	28	31	15	16	20	28	21	9	4	19	23	23.4
Pocahontas	Maximum	48	50	49	59	48	54	34	37	59	56	61	55	56	42	35	40	60	55	50	65	52	40	40	46	48	40	28	28	31	35	46.7
	Minimum	23	27	34	39	27	23	18	5	21	26	28	34	30	30	22	28	24	33	26	30	28	15	15	19	23	27	11	5	20	24	23.8
Postville	Maximum	47	51	51	52	56	47	39	32	45	54	59	45	56	38	32	31	50	58	43	60	58	33	35	44	42	33	28	21	25	30	43.2
	Minimum	18	19	29	42	33	22	15	7	22	30	29	29	28	26	25	20	24	38	27	26	29	12	10	20	24	22	9	7	14	20	22.5
Rock Rapids	Maximum	46	48	45	51	43	40	29	35	51	53	54	57	53	52	44	40	41	51	50	60	51	35	41	51	44	43	29	25	32	33	44.2
	Minimum	25	23	36	32	27	25	15	9	20	22	24	29	29	26	29	26	30	28	22	25	22	13	17	19	22	29	10	6	20	22	22.7
Central Division																																
Belle Plaine	Maximum	54	54	55	57	57	36	30	47	55	58	60	56	59	40	37	33	55	60	46	65	61	38	38	49	48	35	39	27	32	37	47.3
	Minimum	24	24	33	47	34	18	−2	12	29	31	28	36	31	27	29	22	20	37	28	25	33	20	16	21	23	28	14	6	21	24	24.6
Boone	Maximum	49	53	53	58	58	56	49	31	54	56	63	53	59	57	35	41	59	57	51	64	58	43	41	47	50	36	36	24	34	38	48.8
	Minimum	19	20	33	48	30	23	23	8	15	25	23	35	29	28	30	29	20	37	29	22	24	19	17	18	24	29	15	7	21	16	23.9
Carroll	Maximum	49	55	49	60	52	56	45	37	60	57	63	56	59	45	36	44	59	58	54	62	55	35	41	45	50	41	35	23	36	40	48.6
	Minimum	26	26	32	29	28	25	19	9	24	30	31	37	33	29	28	26	34	34	27	32	30	16	15	24	23	30	12	9	22	23	25.4
Cedar Rapids	Maximum	49	53	52	56	58	50	47	27	40	51	56	45	56	40	30	32	50	54	43	60	57	47	36	48	47	37	32	28	30	38	45.3
	Minimum	18	20	30	45	33	22	18	−2	4	21	24	29	31	29	21	21	12	37	25	21	32	19	14	17	26	26	15	5	18	22	21.8
Davenport	Maximum	50	53	56	59	59	56	47	26	44	54	58	50	56	41	34	33	48	58	42	60	59	33	36	51	47	36	32	29	31	39	45.9
	Minimum	28	29	32	46	36	33	20	9	22	37	36	37	38	32	31	27	26	42	31	31	33	22	20	27	29	28	19	13	22	23	28.6
Des Moines	Maximum	52	55	54	59	53	56	35	31	51	53	63	50	60	44	36	42	57	58	48	64	58	34	40	53	48	38	32	26	36	40	47.5
	Minimum	28	29	34	37	33	30	19	7	17	33	33	40	36	32	31	29	28	40	33	32	34	22	21	25	30	27	18	15	25	24	28.1
Ft. Dodge	Maximum	49	52	52	55	56	55	45	32	56	56	62	55	56	50	35	38	57	55	50	65	55	37	41	47	47	42	37	25	36	37	47.8
	Minimum	24	24	33	45	27	24	18	6	18	29	25	36	30	29	28	26	23	32	25	26	26	16	15	19	22	28	10	5	18	22	23.6
Grinnell	Maximum	52	56	57	57	59	58	55	27	47	53	62	55	57	54	37	36	56	57	53	65	61	49	39	49	48	45	37	28	34	37	49.3
	Minimum	25	26	31	47	31	27	18	8	14	32	30	31	32	30	28	23	23	39	29	28	35	20	18	22	27	26	14	10	19	24	25.4
Guthrie Center	Maximum	50	49	49	61	57	54	51	32	59	52	66	59	61	56	34	43	54	54	53	61	55	40	39	49	50	42	39	26	34	40	49.0
	Minimum	26	23	31	45	26	27	20	9	23	34	31	35	34	28	28	26	27	36	27	30	35	17	15	28	21	29	13	10	24	19	25.9
Iowa City	Maximum	50	52	54	57	58	56	49	26	42	52	57	47	55	45	37	33	51	57	42	60	56	40	36	48	47	35	34	27	31	38	45.7
	Minimum	23	23	33	47	35	26	20	0	8	27	28	37	34	32	28	27	20	36	27	25	35	21	17	22	28	28	17	8	21	25	25.3
Iowa Falls	Maximum	47	51	52	54	56	57	47	31	51	54	59	51	56	42	34	32	54	55	46	64	56	36	37	50	46	35	34	24	29	35	45.8
	Minimum	25	23	33	46	32	24	21	8	17	30	26	33	31	29	29	24	19	36	29	24	29	17	15	18	25	27	13	5	19	25	24.4
Little Sioux	Maximum	55	57	58	62	55	60	45	43	61	62	65	63	62	40	38	47	63	61	59	68	54	37	45	56	55	46	37	30	48	45	52.6
	Minimum	30	32	46	32	25	26	18	9	26	34	30	35	29	27	26	18	32	27	22	30	26	18	20	31	18	34	12	12	28	23	25.9
Marshalltown	Maximum	51	53	54	56	56	54	48	29	46	55	62	47	56	46	34	32	56	55	47	62	57	37	37	50	49	37	34	25	31	36	46.4
	Minimum	23	24	33	47	33	28	18	8	15	33	31	34	33	31	29	26	25	41	30	32	36	19	19	23	26	27	14	10	20	26	26.5
Olin	Maximum	48	53	52	53	58	53	49	27	40	50	55	48	54	50	35	33	48	57	50	58	57	48	35	45	48	41	33	28	30	37	45.8
	Minimum	20	22	30	45	35	24	21	−5	1	19	24	30	33	30	28	29	28	37	32	23	29	20	12	20	26	27	16	−4	----	24	23.3[a]
Sioux City	Maximum	52	53	48	53	51	50	26	45	57	57	61	56	56	38	36	44	55	56	55	65	44	30	44	51	47	45	26	29	37	40	46.9
	Minimum	30	34	39	33	30	26	16	15	25	31	33	35	38	28	29	22	31	37	32	37	29	16	21	24	25	22	13	15	26	27	27.3
Southern Division																																
Albia	Maximum	53	56	57	59	59	59	49	30	48	55	63	51	60	48	34	38	56	60	49	65	61	43	38	53	48	37	31	27	43	43	49.1
	Minimum	28	30	34	48	31	31	21	1	19	36	33	36	34	30	29	26	26	43	32	30	39	20	19	25	26	28	17	13	25	24	27.8
Atlantic	Maximum	47	51	47	60	49	56	47	33	52	54	63	55	58	46	36	41	59	54	51	62	52	34	40	55	46	41	35	27	41	41	47.8
	Minimum	28	25	35	37	28	29	19	8	20	33	24	39	35	29	28	28	28	37	29	26	31	19	18	24	26	31	15	13	26	21	26.3
Burlington	Maximum	48	52	56	56	59	55	48	28	47	57	58	57	59	48	35	34	47	59	49	57	61	46	37	47	47	39	35	29	35	45	47.7
	Minimum	26	29	32	48	37	31	24	8	22	37	35	38	38	31	29	29	32	40	32	29	40	25	20	25	31	29	20	15	25	28	29.3
Columbus Jct.	Maximum	50	52	55	57	58	56	48	32	45	55	58	52	58	49	37	34	59	58	50	61	60	48	37	51	46	36	35	28	33	39	47.7
	Minimum	23	24	29	47	34	27	20	3	11	30	30	34	36	31	28	29	21	39	31	27	39	23	17	23	27	26	18	10	22	20	26.0
Corning	Maximum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Minimum	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Corydon	Maximum	53	54	56	59	60	57	49	32	50	53	62	62	62	50	35	43	56	60	50	64	60	46	45	55	47	38	38	29	48	46	50.6
	Minimum	24	28	35	43	30	30	20	1	17	35	33	35	35	30	28	29	26	43	30	30	37	22	18	28	27	29	17	13	26	25	27.5
Creston	Maximum	58	52	49	59	56	55	56	42	45	51	60	53	56	48	40	41	57	55	50	61	57	38	49	52	46	40	38	28	43	42	49.2
	Minimum	27	27	34	42	28	28	21	2	17	34	30	34	31	29	28	27	27	37	27	28	32	18	16	25	26	31	15	13	17	22	25.8
Fairfield	Maximum	51	53	56	61	59	57	47	28	43	55	58	55	58	40	35	35	52	58	45	61	58	43	37	48	47	37	35	27	37	43	47.3
	Minimum	23	22	31	47	34	25	20	2	14	30	28	39	35	30	27	23	19	39	31	21	38	20	19	20	26	26	18	9	24	25	25.5
Keokuk	Maximum	53	53	58	61	54	57	46	32	54	60	63	57	60	46	34	36	51	60	44	61	66	36	39	47	49	40	34	30	40	49	49.0
	Minimum	28	29	32	49	36	32	21	9	26	43	36	41	39	32	29	27	27	44	31	31	36	22	22	27	31	31	21	17	28	28	30.2
Knoxville	Maximum	54	55	56	58	57	58	49	30	50	55	64	50	61	50	35	39	57	59	53	65	60	43	39	54	48	36	32	27	41	42	49.2
	Minimum	25	23	31	48	31	26	19	0	9	33	30	38	35	30	30	28	24	40	31	29	36	22	18	21	25	28	16	8	22	24	26.0
Lamoni	Maximum	49	52	49	58	57	57	47	30	48	51	62	53	61	42	39	44	57	57	49	62	58	38	38	49	47	38	36	29	46	43	48.2
	Minimum	21	24	33	48	35	26	15	−1	11	30	26	31	33	30	28	25	23	37	29	27	30	22	16	20	28	32	17	16	26	23	25.4
Sigourney	Maximum	51	54	55	56	57	57	50	26	42	53	59	51	58	50	35	34	51	58	49	63	58	47	36	47	47	38	37	26	33	38	47.2
	Minimum	25	24	31	47	34	25	20	2	6	31	29	36	34	31	29	25	22	39	30	27	35	22	19	19	27	27	16	9	21	23	25.5
Thurman	Maximum	50	53	48	65	57	58	50	42	48	55	62	60	60	50	39	43	61	58	57	63	51	45	44	54	50	44	42	35	46	44	51.1
	Minimum	23	25	38	42	27	25	20	−6	12	29	27	41	32	32	32	19	28	34	28	24	30	24	18	22	27	34	18	14	26	23	25.6
Winterset	Maximum	52	55	55	59	58	55	55	30	53	55	64	53	61	58	35	43	60	58	50	64	59	45	40	57	50	40	38	28	39	41	50.3
	Minimum	26	27	33	47	28	33	21	5	20	35	34	38	35	30	28	28	28	40	29	34	36	20	18	28	24	30	15	12	25	21	27.6
Omaha	Maximum	53	55	51	63	52	57	32	38	56	59	64	61	61	47	39	45	63	61	57	66	50	33	45	49	50	44	29	33	43	42	49.9
	Minimum	32	35	39	34	31	32	19	17	26	37	36	43	37	30	30	24	34	39	34	38	33	21	24	32	26	27	18	21	32	31	30.4

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

TOTAL PRECIPITATION, NOVEMBER, 1925



Scale of shades in inches

Less than 0.5 | 0.5 to 1.0 | 1.0 to 2.0 | More than 2.0

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. XXXVI DES MOINES, IOWA, DECEMBER, 1925 No. 12

GENERAL SUMMARY

While the mean temperature for December was slightly more than three degrees below the normal, mild winter weather prevailed most of the month. There was a decided excess in temperature during the first three days and most of the second week, with numerous fluctuations until the 20th, after which a protracted cold period set in that prevailed during the rest of the month. Up until this period there had been a little zero weather over a limited portion of the State but over a large area in the northeastern portion zero was reached on nearly every day of the last ten; and at a few stations on the 27th, the temperature did not rise above zero. The deficiency was quite uniform over each division, but there was a decided contrast in the eastern and western portions of the State. At a few stations in the eastern portion the deficiency ranged from seven to eight degrees, while in the extreme western portion the deficiency was less than one degree at several stations; and two stations in the southwest reported a slight excess.

Precipitation was slightly above normal and the averages were remarkably uniform for all divisions of the State, but there were areas in nearly all portions of the State that had deficiencies. There were three periods of precipitation that were general over most of the State, the first occurred from the 3rd to 5th, the second on the 15th and the third occurred on the 20th. On the 24th another period was general over the northern division. The precipitation was mostly in the form of snow, though there was considerable rain or sleet during the beginning of the first storm. As the cold weather set in during this storm the precipitation changed to snow and the strong wind that accompanied, caused the snow to drift badly and the storm developed into a "blizzard." Deep drifts formed over large areas in the eastern and southern portions of the State, causing many highways to be temporarily blocked and resulting in some delay to railway traffic, but as the snow packed solidly and a heavy crust soon formed the cuts did not fill up again after being opened. The snow that occurred on the 15th drifted very little and resulted in very little inconvenience, but there was considerable drifting in the storm of the 20th with many roads blocked temporarily and some minor delay resulted to railway traffic. Sleet was reported on a large number of days but it was generally light and the only inconvenience resulting was the skidding of automobiles. No glaze was reported that injured trees or wires.

During the most severe weather the ground was well protected by snow except over a few small areas in the southeastern portion, so it is likely that winter grain and grasses have not been damaged. The heavy snowfall interfered with belated corn husking, and there was still some corn to be gathered in the southeastern portion of the State at the end of the month. The ice gradually increased in thickness and over most of the State it was ready to harvest but in places the heavy snow prevented it from freezing sufficiently and unless favorable conditions follow there will be an inferior quality harvested in localities.

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
1890	29.1	+5.0	72	−13	0.45	−0.69	1.40	0.00	.....	3	17	7	7
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	1.69	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

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

Climatological Data for December, 1925

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	52	19.7	— 1.8	43	2	—12	27	35	1.02	+ 0.07	0.43	13.0	5	20	5	6	nw.	W. E. Laird
Allison (near)	Butler	1,044	13	18.2	— 3.2	41	8	—18	27	38	1.15	— 0.05	0.40	8.0	4	11	9	11	nw.	J. A. Bell
Alta	Buena Vista	1,513	34	19.3	— 2.1	49	2	—15	27	34	1.58	+ 0.67	0.62	12.5	5	15	8	8	nw.	D. E. Hadden
Alton	Sioux	1,305	20	19.6	— 1.2	50	2	—16	29	37	0.66	— 0.14	0.30	5.5	4	12	8	11	nw.	W. S. Slagle
Belmond	Wright	1,205	15	17.6	— 3.3	40	2	—18	27	39	1.69	+ 0.36	0.52	11.6	8	5	11	15	nw.	H. F. Luick
Britt	Hancock	1,236	38	18.6	— 1.9	42	7	—14	27†	37	0.91	+ 0.11	0.50	8.0	3	6	13	12	nw.	James S. Ross
Charles City	Floyd	1,015	34	15.8	— 4.6	40	8	—17	29	36	1.69	+ 0.44	0.62	10.2	8	9	7	15	nw.	U. S. Weather Bureau
Cherokee	Cherokee	1,196	3	19.0		53	2	—16	29	36	1.07		0.35	9.5	5	10	15	6	n.	J. E. Wirth
Decorah	Winneshiek	875	32	14.4	— 7.8	39	8	—24	29	34	1.68	+ 0.40	0.48	14.0	6	15	6	10	nw.	M. D. Whitney
Dubuque	Dubuque	698	52	20.0	— 4.7	43	3	—15	29	30	1.66	+ 0.15	0.80	10.2	6	9	5	17	nw.	U. S. Weather Bureau
Estherville	Emmet	1,298	30	18.6	— 1.7	50	3	—12	27	30	0.58	— 0.13	0.30	5.5	5	10	15	6	nw.	A. O. Peterson
Fayette	Fayette	1,003	37	16.4	— 5.0	42	8	—24	29	40	3.15	+ 1.74	0.78	20.5	7	12	8	11	nw.	R. Z. Latimer
Forest City	Winnebago	1,226	31	18.6	— 2.7	43	11†	—14	27	35	0.60	— 0.28	0.40	6.0	2	8	9	14	nw.	Dr. M. B. Neil
Hampton	Franklin	1,145		18.3	— 4.6	42	19	—14	27	36	0.97	— 0.28	0.29	11.0	4	10	8	13	nw.	L. H. Davis
Humboldt	Humboldt	1,095	37	19.4	— 3.2	45	1†	—13	29	40	0.91	+ 0.05	0.44	14.0	3	8	9	14	nw.	H. C. Snitkey
Independence	Buchanan	921	61	17.7	— 5.9	46	20	—19	27	38	2.44	+ 1.13	0.85	20.9	7	10	4	17	nw.	Dr. George Boody
Inwood	Lyon	1,474	21	18.0	— 1.4	49	11	—19	27	31	0.39	— 0.27	0.33	3.5	4	15	4	12	nw.	A. C. Hanson
Lansing	Allamakee	632	18																	Mrs. Mary Spinner
Le Mars	Plymouth	1,224	29	20.5	— 1.9	51	2	—16	29	37	0.63	— 0.24	0.19	10.0	4	18	4	9	nw.	Mrs. M. C. Woolley
Mason City	Cerro Gordo	1,148	28	17.1	— 3.8	41	19	—15	29	33	1.27	+ 0.39	0.40	8.2	7	6	14	11	nw.	American Beet Sugar Co.
Milford (near)	Dickinson	1,430	5	19.8		47	11	—15	27	45	0.80		0.35	6.5	4	8	9	14	nw.	W. J. Hunt
New Hampton	Chickasaw	1,169	28	15 8	— 5.0	39	9	—17	27	26	1.07	— 0.02	0.50	10.6	4	7	17	7	n.	E. J. Feuling
Nora Springs	Floyd	1,064	13	18 4	— 4.7	42	11†	—18	29	39	1.43	+ 0.23	0.52	5.9	9	9	10	12	s.	Arthur Betts
Northwood	Worth	1,222	29	16.0j	— 3.7	40k	8	—14i	27	30m	1.20	— 0.03	0.70	5.0	5				nw.	Charles Dwelle
Oelwein	Fayette	1,036	1	16.2		40	8	—18	29	37	1.60		0.64	20.0	5	9	10	12	nw.	John T. Ridler
Osage	Mitchell	1,163		16.4		56	9	—15	26†	35	0.95		0.61	9.0	5	7	10	14	nw.	W. G. Mee
Pocahontas	Pocahontas	1,248	21	19 2	— 2.5	46	2†	—13	27†	41	1.70	+ 0.78	0.60	11.5	7	13	9	9	n.	F. E. Hronek
Postville	Clayton	1,180	26	13 8	— 7.1	41	8	—20	26†	38	1.79	+ 0.39	0.70	17.5	6	10	10	11	nw.	F. L. Williams
Rock Rapids	Lyon	1,358	26	18 4	— 1.3	48	11	—15	22†	29	0.66	+ 0.03	0.35	5.5	4	16	6	9	nw.	J. K. Medberry
Sanborn	O'Brien	1,553	11	18.6	— 0.8	49	2	—19	27	37	1.29	+ 0.44	0.47	10.0	4	17	2	12	sw.	J. W. Dow
Sheldon	O'Brien	1,418		19.6		49	2†	—15	27	34	0.89		0.39	6.0	5	15	6	10	nw.	Ross E. Forward
Sioux Center	Sioux	1,426	26	18 6	— 2.2	50	11	—18	27	34	1.07	+ 0.19	0.50	8.0	5	14	2	15	nw.	J. De Ruyter
Spencer	Clay	1,319	11	18 9	— 1.8	47	2†	—15	27	38	1.45	+ 0.60	0.48	15.0	5	16	5	10	nw.	E. W. Little
Storm Lake	Buena Vista	1,440	36	20.7	— 1.8	50	2	—15	27	34	0.92	+ 0.10	0.33	7.6	6	14	4	13	nw.	George H. Fracker
Washta	Cherokee	1,157	27	21.8	— 0.3	54	2	—19	29	44	1.17	+ 0.34	0.46	9.5	5	16	5	10	n.	H. L. Felter
Waterloo	Black Hawk	854	42	18 0	— 5.5	45	9	—23	29	39	2.03	+ 0.83	0.53	13.1	6	16	4	11	nw	R. B. Slippy
Waverly	Bremer	936	29	15 4a	— 7.8	40a	8	—25a	29	39a	2.06	+ 0.88	0.64	17.0	4	17	7	7	nw.	D. H. Murphy
West Bend	Palo Alto	1,197	32	19.2	— 1.9	47	2.	—12	27	41	1.01	— 0.15	0.32	9.0	6	14	10	7	nw.	Jos. Dorweiler
Means and extremes				18.2	— 3.3	56	9	—25	29	45	1.27	+ 0.24	0.85	10.5	5	12	8	11	nw.	
Central Division																				
Ames	Story	926	48			46	8	—12	27	46	0.93	— 0.13	0.63	8 0	4	18	5	8	nw.	Iowa State College
Audubon	Audubon	1,297	30	20 6	— 2.2	55	9	—15	27	38	0.93	— 0.06	0.40	8 5	4	10	13	8	nw.	George Kibby
Baxter	Jasper	998	25	20 7a	— 3.7	49a	3	—15a	27	40a	0.63	— 0.32	0.30	10.0	4				nw.	Henry Geise
Belle Plaine	Benton	866	35	19 0	— 5.2	48	3	—13	27	40	2.17	+ 0.82	0.92	19.5	7	6	11	14	nw.	O. C. Burrows
Boone (near)	Boone	1,134	20	20.3	— 3.7	48	1†	—14	29	50	0.81	— 0.08	0.50	10.0	5	11	8	12	n.	C. F. Henning
Carroll	Carroll	1,265	35	21.3	— 2.5	51	2	—13	27	39	1.38	+ 0.40	0.40	10 5	5	19	3	9	nw.	Mrs. Jos. J. Wolfe
Cedar Rapids	Linn	737	43	17 6	— 8 3	41	19	—15	27	39	0.95	— 0.36	0.51	11.0	4	10	1	20	nw.	J. T. Wurster
Clinton	Clinton	595	52	21 0	— 5.3	46	12	—12	27	35	1.68	— 0.10	1.18	7.0	7	10	4	17	sw.	Dr. A. P. Bryant
Davenport	Scott	580	54	22 4	— 4.7	46	3	—11	27	31	1.64	+ 0.13	0.99	9.3	7	7	6	18	W.	U. S. Weather Bureau
Davenport (No. 2)	Scott	690		22.0		46	12	—12	27	32	1.77		1.09	9.1	7					Rex Shriver
Denison	Crawford	1,171	31	21 9	— 1.9	53	2	—12	27	38	0 86	— 0.01	0.41	10.0	5	12	6	13	nw.	V. L. Byers
Des Moines	Polk	861	47	23 0	— 3.0	52	8	— 9	27	36	1.67	+ 0.46	0.62	17.8	6	7	13	11	nw.	U. S. Weather Bureau
Fairport	Muscatine	567	4	22 4		47	12	—12	27	32	1.95		0.83	7.7	10	7	7	17	nw.	Bureau of Fisheries
Fort Dodge	Webster	1,114	25	19 8	— 2.5	49	11	—16	27	40	1.00	+ 0.17	0.26	13 0	5	16	1	14	nw.	Samuel Sampson
Grinnell	Poweshiek	1,031	31	22.6	— 2.6	54	7	—13	27	38	1.36	+ 0.19	0.40	15.0	6	5	13	13	nw.	Paul P. Meyers
Grundy Center	Grundy	976	34																	W. D. Callaway
Guthrie Center	Guthrie	1,077	30	22 8	— 1.7	52	8†	—14	27	34	0.97	— 0.14	0.48	10.0	4	18	2	11	nw.	E. L. Nesselroad
Harlan (near)	Shelby	1,192	26	22 0	— 1.6	54	2	—13	27	43	0.63	— 0.37	0.48	6.0	2	14	14	3	n.	Nels Bisgard
Iowa City	Johnson	733	65	20 2	— 5 6	44	4	—11	27†	39	1.66	+ 0.05	1.09	11.5	6	7	9	15	nw.	Prof. J. F. Reilly
Iowa Falls	Hardin	1,107	32	17.8	— 4.7	42	2	—18	29	40	1.59	+ 0.29	0.35	13.5	9	9	10	12	nw.	J. B. Parmelee
Jefferson	Greene	1,052	26	19.6	— 4.0	48	8†	—14	27	44	1.34	+ 0.27	0.62	13.0	6	12	10	9	nw.	W. I. Lyon
Kalo	Webster																			S. C. Fuller
Le Claire	Scott	576	25																	Margaret T. Disney
Little Sioux	Harrison	1,040	20	23 6	— 0.4	58	2	—13	27	47	2.26	+ 1.38	0.98	18.0	5	9	16	6	nw.	H. W. Kerr
Logan	Harrison	1,035	58	24.9	— 0.5	56	2	—10	27	39	1.00	— 0.13	0.45	7.5	4	17	5	9	nw.	Mary Jean Stern
Maquoketa	Jackson	692				42d	8†	—16d	29	35d	1.55		1 06	4 9	4				w.	John Strodthoff
Marshalltown	Marshall	947	33	20 6	— 4 5	45	8	—12	27	36	1.43	+ 0 16	0 63	15 2	6	12	4	15	nw.	C. C. Pigman
Monroe	Jasper	922	13	22.4	— 3.5	49	9	—13	27	38	1.35	+ 0.29	0.57	15.9	6	11	5	15	nw.	J. A. Dibel
Muscatine	Muscatine	544	64																	William Molis
Olin	Jones	760	26	19.4	— 5.5	41	8	—12	27†	34	1.05	— 0.30	0.40	4.0	4	8	5	18	nw.	Mrs. L. Stingley
Onawa	Monona	1,051	24	23 8	— 0.1	57	2	—11	27	41	1.93	+ 0 83	0 76	12 0	5	15	2	14	nw.	Mrs. H. E. Colby
Perry	Dallas	975	24	20 5	— 3.9	50	8†	—12	27†	46	1.27	+ 0 25	0 72	15 8	4	14	6	11	nw.	Eugene N. Hastie
Rockwell City	Calhoun	1,134	29	19 9	— 2.9	47	11	—15	27	39	0 90	— 0 08	0 30	7 5	5	10	11	10	nw.	A. W. McIsaac
Sac City	Sac	1,278	49	19 4c	— 3.1	49c	3	—15d	27	36d	1 40	+ 0 28	0 50	12 0	5				nw.	F. P. Kessler
Sioux City	Woodbury	1,135	36	22.0	— 1.1	54	11	—12	27	36	0.95	+ 0.13	0.43	10.9	6	12	7	12	nw.	U. S. Weather Bureau
Tipton (near)	Cedar	807	26	20 2	— 5.4	45	4	—13	27†	37	1.74	+ 0 26	1 00	8 0	5	10	12	9	w.	John Kroeplen
Toledo	Tama	856	31	19.8	— 4.8	45	8	—14	27	39	1.65	+ 0 53	0 60	13 0	5	13	6	12	nw.	I. F. Giger
Van Meter ‡‡	Dallas	872	6								1.10		0 75	13 5	3					Calvin K. Smith
Waukee	Dallas	1,039	22	21 6	— 2.7	51	8	—14	27	40	1.41	+ 0 29	0 85	12 7	6	19	6	6	nw.	Samuel F. Foft
Webster City	Hamilton	1,042	20	18.7	— 4.3	44	1†	—18	29	47	1.18	+ 0.20	0.70	8.0	4	14	6	11	nw.	Frank A. Bonebright
Williamsburg	Iowa	765	9	18.6	— 5.9	42	8	—17	16	44	2.41	+ 1.16	1.37	10.2	5	14	11	6	nw.	Dr. F. C. Schadt
Means and extremes				21.0	— 3.3	58	2	—18	29	50	1.37	+ 0.20	1.37	10.9	5	12	7	12	nw.	

Climatological Data for December, 1925—Continued

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		
Southern Division																				
Afton	Union	1,212	31	25.2b	— 1.0	60b	9	—12b	27	38b	0.65	— 0.54	0.40	8.5	2				nw.	S. R. Brown
Albia	Monroe	959	27	23.8	— 2.4	50	9	—10	27	33	1.83	+ 0.76	0.72	15.2	7	14	5	12	nw.	O. E. McBride
Atlantic	Cass	1,164	34	22.8	— 2.9	55	9	—11	27	36	1.22	+ 0.10	0.60	11.5	7	9	10	12	nw.	T. H. Whitney
Bonaparte (near)	Van Buren	563	34	23.2	— 4.6	46	3†	—10	27	34	0.93	— 0.33	0.52	3.8	5	12	7	12	sw.	B. R. Vale
Burlington	Des Moines	544	29	24.8	— 4.6	48	3	— 9	27	29	1.78	+ 0.18	0.89	8.0	4	10	6	15	nw.	John W. Donnelly
Centerville	Appanoose	1,013	20	24.0	— 3.7	50	12	—10	27	36	1.24	+ 0.14	0.72	13.1	6	10	9	12	nw.	Thomas Wood
Chariton (near)	Lucas	1,042	30	24.0	— 2.4	52	9	—10	27	35	1.06	— 0.10	0.40	7.0	4	8	12	11	nw.	C. C. Burr
Clarinda	Page	1,009	35	26.6	— 0.3	64	9	— 9	27	39	0.92	— 0.18	0.32	9.0	5	18	6	7	nw.	Dr. H. C. Hawley
Columbus Jct.‡‡	Louisa	595	24	21.6	— 6.2	45	3†	—11	27	38	2.33	+ 1.01	1.50	10.0	6	9	7	15	sw.	Miss Musa Todd
Corning (near)	Adams	1,117	33	25.5	+ 0.3	61	9	—10	16†	41	0.30	— 0.94	0.30	3.0	1	23	2	6	nw.	Jerome Smith
Corydon	Wayne	1,101	32	24.9	— 1.9	54	12	—10	27	32	1.49	+ 0.20	0.57	12.5	4	18	7	6	nw.	A. T. Gallagher
Creston	Union	1,312	20	23.4	— 1.6	53	12	—13	27	37	0.90	— 0.16	0.50	9.0	4	17	10	4	nw.	J. W. Goodsell
Cumberland (near)	Cass	1,225	26								0.76	— 0.17	0.48	9.5	4	13	6	12	nw.	Carl E. Pollock
Earlham (near)	Madison	1,126	23	23.3	— 1.2	59	9	—12	27	43	1.22	+ 0.03	0.48	15.0	4	18	4	9	nw.	George Phillips
Fairfield	Jefferson	780	41	21.1	— 5.3	46	3†	—11	27	38	3.52	+ 1.90	1.60	17.2	5	16	3	12	nw.	Prof. R. M. McKenzie
Glenwood	Mills	1,100	27	25.4	— 1.4	57	2	—10	27	42	0.60	— 0.07	0.35	4.5	4	9	12	10	nw.	Dr. George Mogridge
Indianola	Warren	972	34	22.8	— 2.8	52	2	—12	27	38	1.60	+ 0.28	0.80	16.0	5	14	11	6	nw.	Seth F. Shenton
Keokuk	Lee	614	54	25.4	— 4.2	52	4	— 8	27	36	1.65	+ 0.06	0.84	10.8	5	7	11	13	nw.	U. S. Weather Bureau
Keosauqua	Van Buren	644	33	22.0	— 5.7	49	3	— 9	27	35	1.30	— 0.08	0.75	11.5	5	13	7	11	n.	J. H. Landes
Knoxville	Marion	920	30	23.2	— 2.7	50	2†	—11	27	36	1.50	+ 0.18	0.45	11.0	7	15	8	8	nw.	W. J. Casey
Lacona	Warren	824	26								1.78	+ 0.16	0.40	17.0	7	6	20	5		J. B. Alter
Lamoni	Decatur	1,123	18	24.8	— 1.2	56	9	—10	27	36	0.92	— 0.26	0.37	6.6	7	9	10	12	nw.	F. S. Parks
Lenox	Taylor	1,250	30	25.0	— 0.6	61	9	—11	27	38	0.65	— 0.33	0.35	3.5	4	14	11	6	nw.	J. L. Hurley
Mount Ayr	Ringgold	1,245	32	25.3	— 1.2	60	8	—11	27	38	1.11	— 0.12	0.45	7.8	6	12	10	9	nw.	Alex Maxwell
Mt. Pleasant	Henry	729	44	23.0	— 5.1	47	4	—10	27	31	1.77	+ 0.40	0.96	11.5	5	12	4	15	nw.	J. H. Jericho
Oakland	Pottawattamie	1,105	6	24.3	— 0.9	60	1	—10	16†	42	0.53		0.50	5.0	2	16	1	14	n.	M. E. Gray
Oskaloosa	Makaska	835	49	22.4	— 3.6	47	2†	—13	27	38	2.02	+ 0.85	0.60	17.5	6	10	6	15	nw.	Roy R. Robinson
Ottumwa	Wapello	649	30	23.6		49	9	—11	16	44	1.42	+ 0.16	0.63	9.4	6	14	5	12	nw.	C. L. Mikesh
Red Oak (near)	Montgomery	1,030									0.30		0.20	3.0	3	7	15	9	nw.	B. R. Bridge
Sigourney (near)	Keokuk	790	29	20.6	— 4.3	44	8†	—13	27	39	2.90	+ 1.67	1.59	24.2	6	12	2	17	nw.	W. E. Utterback
Stockport	Van Buren	747	23	22.6	— 4.2	49	8	—10	27	39	1.17	— 0.10	0.40	10.5	4	11	8	12	nw.	C. L. Beswick
Thurman	Fremont	975	28	27.0	+ 1.7	58	2	— 8	27	43	0.52	— 0.79	0.24	2.5	3	5	18	8	nw.	C. R. Paul
Tingley	Ringgold	1,275		25.1		59	9	—10	27	36	1.07		0.33	7.3	6	14	6	11	nw.	James A. Verploegh
Washington	Washington	769	43	19.4	— 7.2	43	3†	—14	27	40	1.55	+ 0.23	0.46	16.0	6	10	0	21	nw.	D. D. Sherman
Wescott (near)	Lee	523	3	23.8		50	12	— 7	27	29	0.77		0.30	7.7	4	11	9	11	sw.	Lester J. Larson
Winterset	Madison	1,129	34	24.5	— 1.3	60	9	—12	27	35	1.20	+ 0.01	0.40	11.5	4	19	2	10	nw.	H. S. Ely
Omaha, Neb.		1,103	54	26.0	— 0.4	58	2	— 9	27	30	1.42	+ 0.51	0.75	12.6	5	12	11	8	nw.	U. S. Weather Bureau
Means and extremes				23.9	— 2.6	64	9	—14	27	44	1.27	+ 0.05	1.60	10.3	5	12	8	11	nw.	
State means and extremes				21.0	— 3.1	64	9	—25	29	50	1.30	+ 0.16	1.60	10.6	5	12	8	11	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							Maximum				
	Mean	Highest	Date	Lowest	Date	7 a. m.	12 Noon‡	7 p. m.	Lowest	Date	Total movement	Average hourly velocity	Miles	From	Date	Per cent of possible	Departure from normal
Charles City	30.08	30.76	28	29.49	5	90	79	88	59	16	5,088	6.8	27	nw.	4	40	— 4
Davenport	30.08	30.78	28	29.13	4	88	76	82	39	10	5,340	7.2	24	nw.	26	28	—15
Des Moines	30.09	30.84	27	29.46	4	82	70	75	50	†6	5,564	7.5	30	sw.	23	52	0
Dubuque	30.05	30.71	28	29.22	5	88	79	80	48	12	4,986	6.7	31	n.	4	40	— 2
Keokuk	30.11	30.80	28	29.21	4	80	67	74	42	24	5,769	7.8	33	sw.	23	45	0
Sioux City	30.14	30.96	27	29.53	3	82	72	75	37	†1	9,894	13.3	48	nw.	4	49	0
Omaha, Neb.	30.11	30.94	27	29.47	19	77	66	68	39	1	7,104	9.5	42	nw.	4	51	— 1
Means and extremes	30.09	30.96	27	29.13	4	84	73	77	37	†1		8.4	48	nw.	4	44	— 3
Normals and records	30.12	*31.09	29th 1917	§29.00	13th 1920	84	77	¶18	12th 1922		8.1	*58	nw.	24th 1907	47		

*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 21.0°, or 3.1° lower than the normal. By divisions, approximately three tiers of counties to the division, the means were as follows: Northern, 18.2°, or 3.3° lower than the normal; Central, 21.0°, or 3.3° lower than the normal; Southern 23.9°, or 2.6° lower than the normal. The highest monthly mean was 27.0°, at Thurman, and the lowest was 13.8°, at Postville. The highest temperature recorded was 64°, at Clarinda, on the 9th, and the lowest was —25°, at Waverly, on the 29th. The monthly range for the State was 89°.

PRECIPITATION

The average precipitation for the State, as shown by the records of 109 stations, was 1.30 inches, or 0.16 inch more than the normal. By divisions, the averages were as follows: Northern, 1.27 inches, or 0.24 inch more than the normal; Central, 1.27 inches, or 0.20 inch more than the normal; Southern, 1.27 inches, or 0.05 inch more than the normal. The greatest amount, 3.52 inches, occurred at Fairfield, and the least 0.30 inch, occurred at Red Oak and Corning. The greatest amount in 24 consecutive hours, 1.60 inches, occurred at Fairfield on the 5th.

SNOWFALL

The average snowfall for the State was 10.6 inches, or 4.4 inches more than the normal. The greatest amount, 24.2 inches, occurred at Sigourney, and the least, 2.5 inches, occurred at Thurman. The snowfall was uniform in all divisions, but there were great differences in the amounts in the eastern and western portions of the State.

An area in the northeastern portion was snow covered the entire month, and nearly the entire State was covered from the 15th till the end of the month. The seasonal snowfall till the end of December, amounting to 19.5 inches for the State, is the greatest in the history of the State except in 1909, when 20.5 inches fell.

(Continued on Page 93)

Daily Precipitation for December, 1925

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			.10		.12										.30				.36	.01				.43								1.02
Allison (near)	Cedar			.35	T.	.10										.30		T.			T.		T.	.40								1.15
Alta	Raccoon			.44	.18			T.							T.	.08		T.			.44	T.			.44								1.58
Alton	Floyd			.11	.05						T.				T.			T.			.20				.30								0.66
Belmond	Iowa	.02		.50	.10	.10							T.			.30		.02			.13				.52	T.							1.69
Britt	Iowa			.25	T.	T.		T.										T.			.16	T.			.50								0.91
Charles City ***	Cedar			.61	.26	.13	T.			T.						.20	T.	T.	T.		.01	.01	T.	.11	.36			T.					1.69
Cherokee	Little Sioux	T.		.23	.15			T.			T.				T.	T.		T.			.35	.07	T.		.27								1.07
Decorah	Mississippi			.45	.11	.48										.16					T.			.16	.32							1.68
Dubuque ***	Mississippi		T.	.08	.80	.08	T.			T.						.34		T.			T.	T.	T.	.05	.31						T.		1.66
Estherville	Des Moines			.30	.10																.05			.05	.08								0.58
Fayette	Mississippi			.63	.54	.78										.53						T.	T.	.14	.44	.09					T.		3.15
Forest City	Cedar				.20	T.								T.							T.	T.	T.	T.	.40								0.60
Hampton	Cedar		T.	T.	T.	.28										.20					.20	T.	T.		.29								0.97
Humboldt	Des Moines	T.		T.	T.											.20		T.			.27	T.		T.	.44								0.91
Independence	Wapsipinicon			.17	.18	.85				T.						.65								.07	.37	.15							2.44
Inwood	Big Sioux			.05	.02						T.							T.			.02				.33								0.42
Lansing	Mississippi																																
Le Mars	Floyd			.13	T.			T.							T.	.14					.19	T.			.17	T.							0.63
Mason City	Cedar		.15	.30	.05	.20	T.	T.			T.	T.	T.	T.	.15			T.	T.		T.	.02	T.	T.	.40	T.	T.						1.27
Milford (near)	Little Sioux				.20																.15	.10			.35								0.80
New Hampton	Wapsipinicon			.05	.32											.20									.50								1.07
Nora Springs	Cedar			.52	.07	.09							T.			.17		.01			.03	.03	T.	.03	.48								1.43
Northwood	Cedar	T.		.70	.10	.10	T.														T.	T.	T.	.10	.20								1.20
Oelwein	Wapsipinicon			.32	.16											.48								.16	.48								1.60
Osage	Cedar			.55	.06		T.	T.		T.			T.	T.		.10		T.			T.	T.	T.	T.	.04	.20							0.95
Pocahontas	Des Moines			.60	.14			.02				.02				.12					.40				.40								1.70
Postville	Mississippi			.40	.30		.10									.35						T.		.20	.40							1.75
Rock Rapids	Big Sioux			.11	.15						T.										.05				.35								0.66
Sanborn	Floyd			.47			.08														.32				.40								1.27
Sheldon	Floyd			.29	.14			T.			T.	T.				T.		T.	T.	T.	.06	.01	T.		.39								0.89
Sioux Center	Floyd			.27	.20		T.								T.			T.			.05	.05			.50								1.07
Spencer	Little Sioux			.25	.24											.08					.48			.40									1.45
Storm Lake	Raccoon			.18	.12										T.	.03		T.			.25	.01			.33	T.							0.92
Washta	Little Sioux			.22	.24										.04	T.					.42				.25								1.17
Waterloo	Cedar			.27	.45	.53										.45		T.			T.	T.		T.	.30	.03							2.03
Waverly	Cedar			.18		.64										.61									.63								2.06
West Bend	Des Moines		T.	.29	.08			T.								.04					.12	.16			.32								1.01
Central Division																																	
Ames	Skunk			.12	.07			T.							T.	.63					.11	T.		T.	T.								0.93
Audubon	Nishnabotna			.08	.10										.40						.35				T.								0.93
Baxter	Skunk			.28			.16								.56						.10												1.10
Belle Plaine	Iowa			.12	.52	.92	T.									.47		T.			.11	.01	T.	T.	.02	T.							2.17
Boone	Des Moines			.03	.10	T.									.15	.35		T.			.18	T.	T.		T.								0.81
Carroll	Raccoon			.30											.40	.33					.30				.05								1.38
Cedar Rapids	Cedar			.06	.19	.32										.38		T.							T.	T.							0.95
Clinton	Mississippi			.10	1.18	.04				.03						.18		T.			.11	T.	T.	T.	.04								1.68
Davenport ***	Mississippi		T.	.10	.96	.09	.01	T.		T.		T.				.26	T.	T.	T.		.19	T.	T.	T.	.03	T.							1.64
Davenport (No.2)	Mississippi			.01	1.09	.06	.03			T.						.31		T.			.15	.12	T.	T.	T.								1.77
Denison	Missouri			.24	.11										.24	.17					.10				T.								0.86
Des Moines ***	Des Moines			.19	.40	.23		T.							.34	.28		T.			.23	T.	T.	T.	T.	T.							1.67
Fairport	Mississippi			.02	.83	.67	.04									.19					.13	.02	.01	.02		.02							1.95
Fort Dodge	Des Moines			.17	.18			T.								.26					.25				.14								1.00
Grinnell	Iowa			.30	.18	.35			T.						T.	.40		T.			.12	.01	T.			T.							1.36
Grundy Center	Cedar																		T.		.25	.20	.15		T.								**
Guthrie Center	Raccoon			.09	T.										.24	.24					.40												0.97
Harlan	Nishnabotna			.15												.40																	0.63
Iowa City	Iowa		T.	.01	1.09	.21										.27		T.			.07	T.				.01							1.66
Iowa Falls	Iowa			.24	.10	.25										.35			T.		.20	.10		.03	.30	.02							1.59
Jefferson	Raccoon		T.	.12	.05			T.							.25	.37		T.			.50			T.	.05	T.					T.		1.34
Kalo	Des Moines																																
Le Claire	Mississippi																																
Little Sioux	Little Sioux			.37											.98	.51					.30				.10								2.26
Logan	Missouri			.27	.10										.45						.18												1.00
Maquoketa	Maquoketa			*	1.06	T.										.28										.12							1.46
Marshalltown	Iowa		T.	.20	.04	.44		T.							T.	.63		T.	T.		.10	T.	T.	T.	T.	.02					T.		1.43
Monroe	Des Moines			.06	.28	.24	.07	T.							T.	.57					.13	T.	T.	T.									1.35
Muscatine	Mississippi																																
Olin	Wapsipinicon			.20	.40	.05						T.				.40						T.		T.	T.								1.05
Onawa	Missouri			.55	.17										.76						.35				.10								1.93
Perry	Raccoon			.16	.12				T.		T.					.72					.27			T.	T.								1.27
Rockwell City	Raccoon			.10	.20											.20					.30				.10								0.90
Sac City	Raccoon		.20		.16			T.								.32		T.			.40	T.			.08								1.16
Sioux City ***	Missouri	T.	.01	.14	T.		T.	T.							.36	.07		T.	T.	T.	.18	T.		T.	.19								0.95
Tipton	Cedar			.20	1.00	.16										.24		T.	T.		.14			T.									1.74
Toledo	Iowa			.25	.20	.60										.50		T.			.10	T.			T.								1.65
Van Meter	Raccoon					.10										.75						.25											1.10
Waukee	Raccoon			.08	.15	.01									.20	.65		T.			.32	T.		T.									1.41
Webster City	Des Moines				.70	T.		T.								.20					.12				.16								1.18
Williamsburg	Iowa			.04	1.37	.63										.27					.10												2.41

Daily Precipitation for December, 1925—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			T.											.40					.25													0.65
Albia	Des Moines			.02	.45	.72	T.								.01	.39		T.			.19	.05	T.	T.									1.83
Atlantic	Nishnabotna			.03	.10										.60	.12		.05			.27			.05	T.	T.							1.22
Bonaparte (near)	Des Moines			.03	.52	.11									T.	.17		T.			.10	T.											0.93
Burlington	Mississippi			T.	.89	.21			T.							.32					.36	T.											1.78
Centerville	Chariton			.03	.54	.18	T.	T.							T.	.39					.02	.08				T.	T.						1.24
Chariton (near)	Chariton				.40	.22										.28					.16										T.	1.06
Clarinda	Nodaway			.02	.08										.20	.30					.32												0.92
Columbus Jct.	Iowa			.02	1.50	.40										.20		T.			.17	.04		T.								2.33
Corning	Nodaway			T.	T.										.30																	0.30
Corydon	Chariton				.34	.46									T.	.57					.12												1.49
Creston	Missouri				.08										.50	.16					.16												0.90
Cumberl'd (near)	Nodaway			T.	.04			T.							.48	.08					.16	T.		T.								0.76
Earlham (near)	Des Moines			T.	.08										.40	.48					.24	T.			T.								1.20
Fairfield	Skunk				1.20	1.60			T.							.20					.50	.02											3.52
Glenwood	Missouri				.15										.30	.05					.10												0.60
Indianola	Des Moines				.20	.40		T.	T.						.40	.40					.20	T.			T.	T.							1.60
Keokuk***	Mississippi			T.	.84	.05	T.	T.							T.	.32		T.			.24	.20	T.										1.65
Keosauqua	Des Moines				.65	.10										.25	T.	T.	T.		.25	.05											1.30
Knoxville	Des Moines		T.	.10.	.30	.40									.05	.45		T.			.15	.05	T.	T.									1.50
Lacona	Des Moines			.08	.40	.20	.10								.20	.40					.40												1.78
Lamoni	Grand			.07	.08	.03			T.						.10	.37					.25	.02											0.92
Lenox	Missouri			T.	.10										.15	.05	T.				.35			T.									0.65
Mount Ayr	Grand			.02	.21										.15	.45	T.	T.			.25	.03		T.									1.11
Mt. Pleasant	Skunk			.11	.96	.41										.15					.14												1.77
Oakland	Nishnabotna			.03	T.										.50	T.	T.	T.															0.53
Oskaloosa	Des Moines		T.	.23	.54	.60		T.	T.						T.	.42		T.			.19	.04	T.	T.		T.							2.02
Ottumwa	Des Moines			.01	.63	.30			T.						T.	.26		T.			.17	.05	T.	T.									1.42
Red Oak (near)	Missouri		T.	T.	T.										T.		.05	.20		T.		.05											0.30
Sigourney	Skunk		T.	.08	.38	1.59									T.	.44		T.	T.		.28	.13	T.	T.									2.90
Stockport	Skunk			T.	.38	.40										.21		T.			.18	T.	T.										1.17
Thurman	Missouri			T.	.12										.16	T.	T.	T.			.24	T.		T.		T.	T.				T.		0.52
Tingley	Platt			.18	.33										.07	.26	T.	T.			.18	.05		T.									1.07
Washington	Skunk			.01	.46	.34									T.	.40					.26	.08											1.55
Wescott (near)	Mississippi				.12	.20										.30								.15									0.77
Winterset	Des Moines			T.	.30										.30	.40					.20												1.20
Omaha, Neb.***	Missouri			.22	.08			T.							.75		T.	T.		.06	.31	T.		T.	T.	T.							1.42

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 91)

MISCELLANEOUS PHENOMENA

Aurora: 27th.

Fog: 1st, 3d, 4th, 7th, 9th, 10th, 15th, 16th, 18th, 19th.

Hail: 4th.

Halos (lunar and solar): 1st, 12th, 13th, 23d, 25th, 26th, 27th, 31st.

Sleet: 2d, 3d, 4th, 7th, 9th, 10th, 15th, 19th, 20th, 21st, 23d.

Winds (strong): 2d, 3d, 4th, 5th, 27th.

RIVERS

Low stages prevailed on all rivers and there was very little fluctuation. There was running ice on the Mississippi at Dubuque till the 13th, when the channel closed and it remained closed the rest of the month. The Missouri River remained open with considerable running ice till the 21st when it closed and continued closed the rest of the month. The smaller streams in the northern portion of the State were closed most of the month but in the southern portion they did not freeze till the beginning of the last week.

ERRATA

Report for November, 1925. Page 82. Boone: mean temperature published 36.2°, should be 36.4°; departure published —0.4°, should be —0.2°. Belle Plaine: mean temperature published 36.0°, should be 35.8[b] degrees, departure published, —1.0°, should be —1.2°; date of lowest temperature published 7th should be 8th. Page 86. Belle Plaine; cancel data entered on the 6th and the maximum on the 7th and substitute the following for data published on the 7th to 10th, inclusive: 7th, maximum blank, minimum 18; 8th, maximum 30, minimum —2; 9th, maximum 47, minimum 12; 10th, maximum 55, minimum 29; mean of the maximum published 47.3, should be 47.3[b]; mean of the minimum published 24.6, should be 24.4[b].

COOPERATIVE OBSERVERS APPRECIATED

At the meeting of the American Meteorological Society at Kansas City, December 28th-29th, a motion was passed expressing the appreciation of the Society for the work of the Cooperative Observers of the U. S. Weather Bureau. The motion was made by Prof. Dinsmore Alter of the University of Kansas, Lawrence, Kansas, and while the motion was pending many favorable remarks were made by members aside from those who are paid employees of the United States Weather Bureau and who have always placed a high estimate on the work of the cooperative observers.

Many scientific investigations would be impossible without these cooperative reports. Many applications of these reports to the practical affairs of life are made without the knowledge of the observer, through the medium of our monthly publication, Climatological Data, and through correspondence. Many claims for damaged shipments are adjusted on the evidence of cooperative observers' records without expensive court proceedings, to the economic advantage of all concerned. And there are many other uses that cannot be mentioned here.

This meeting of the American Meteorological Society was one section of the American Association for the Advancement of Science which meets annually somewhere in America, during the Christmas holiday week. The next meeting will be in Philadelphia.

Among those in attendance at the Meteorological Section this year were Prof. Charles F. Marvin, Chief of the United States Weather Bureau, the section directors of several States and other officials of the Bureau to the number of twenty-one.

Many interesting papers were presented and there was much free and enthusiastic discussion.

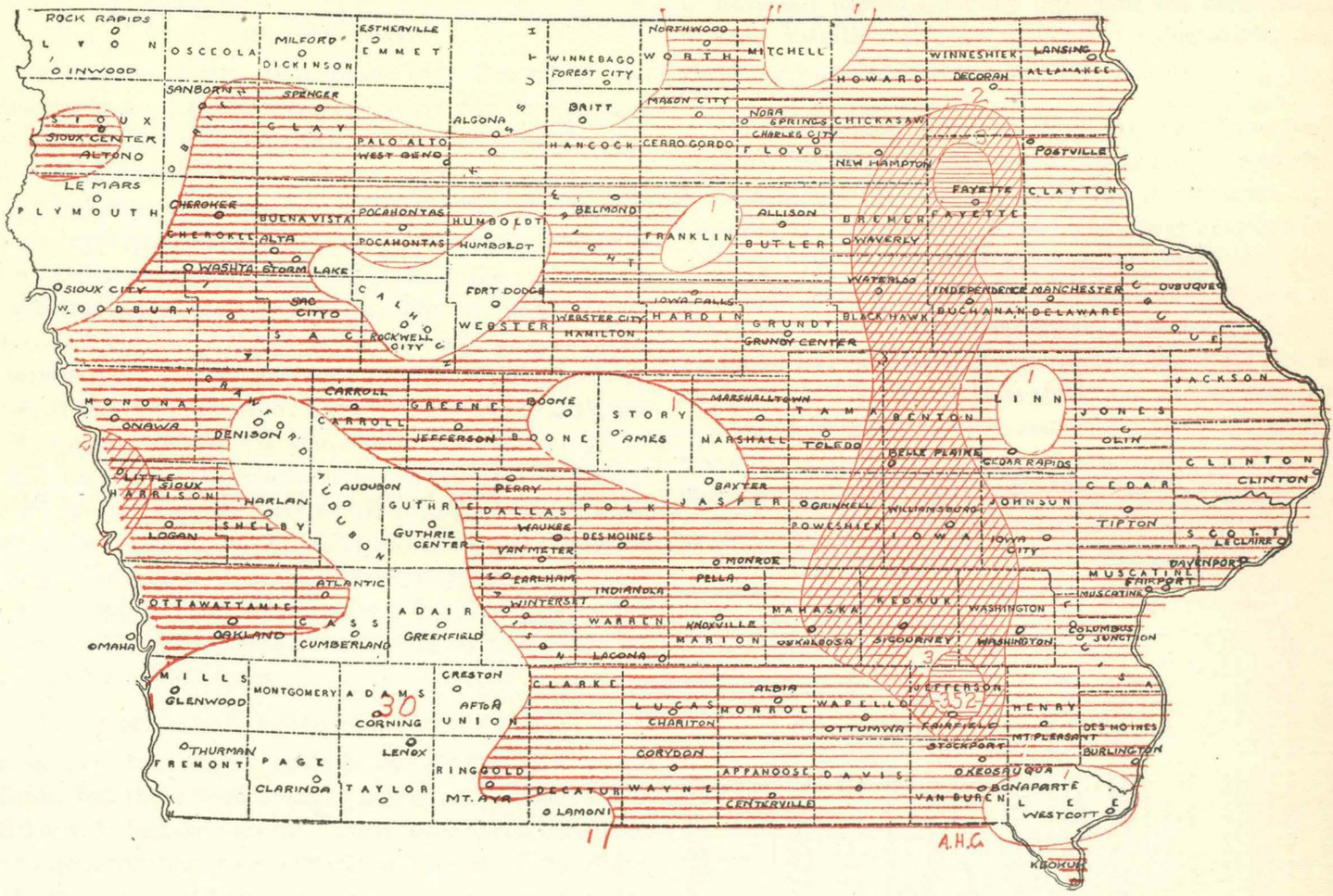
Though young in years, it looks as though the American Meteorological Society would soon compare favorably with the Royal Meterological Society of Great Britain in variety, technique and number of papers presented. The greatest need is more members and greater financial support. Cooperative observers are very welcome.

Daily Maximum and Minimum Temperature for the Month of December, 1925

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
Northern Division																																	
Algona	Maximum	40	43	39	35	32	28	33	40	35	32	41	39	24	24	28	30	20	25	37	39	17	18	35	26	16	3	4	11	15	19	32	27.7
	Minimum	16	24	24	19	0	10	20	28	23	26	30	24	18	17	18	12	10	10	15	15	9	6	0	12	— 6	— 8	—12	— 5	— 8	3	2	11.7
Alta	Maximum	43	49	37	32	24	29	35	43	40	32	46	38	22	20	29	32	17	29	40	22	13	14	35	20	13	3	0	9	13	11	35	26.6
	Minimum	20	35	32	16	11	15	27	30	27	27	31	20	15	14	12	10	5	14	22	12	6	1	1	10	— 1	—13	—15	— 8	— 7	— 2	5	12.0
Alton	Maximum	42	50	41	34	27	32	36	45	42	32	48	43	23	22	30	31	20	29	32	23	17	10	36	23	15	5	.....	7	13	11	29	27.4
	Minimum	12	32	34	20	12	16	28	28	24	27	28	23	17	14	15	7	10	16	18	15	10	3	— 1	14	0	— 7	—13	—10	—16	— 6	— 1	11.9
Belmond	Maximum	39	40	36	34	20	28	33	34	35	30	35	35	23	22	26	32	18	23	38	29	18	17	35	21	18	0	10	10	19	24	33	26.3
	Minimum	9	30	33	19	8	8	18	29	25	25	29	20	13	15	7	5	4	2	17	14	9	5	— 4	10	—10	—10	—18	—10	—15	— 8	— 2	8.9
Charles City	Maximum	33	39	36	34	15	24	33	40	31	29	36	33	23	24	23	29	14	20	37	28	17	16	34	19	9	— 4	3	6	15	21	30	24.1
	Minimum	12	28	32	15	11	12	13	28	23	23	27	15	11	13	— 3	— 5	— 4	— 4	16	17	4	7	— 2	8	— 6	—11	—14	—10	—17	— 5	— 1	7.5
Decorah	Maximum	31	38	36	34	36	20	33	39	30	28	34	33	23	24	23	23	17	17	35	28	23	17	32	20	17	6	1	4	10	18	24	24.3
	Minimum	14	23	28	20	9	9	9	11	17	7	21	15	7	8	4	— 8	— 1	—13	13	18	4	4	— 1	2	— 2	—15	—16	—12	—24	—10	— 4	4.4
Dubuque	Maximum	31	36	43	41	31	23	32	40	35	35	36	40	27	30	27	28	16	29	41	29	25	17	34	21	18	3	3	7	11	24	32	27.3
	Minimum	25	25	32	31	14	14	18	23	23	20	30	20	15	17	15	4	4	— 1	27	23	10	9	5	13	3	— 8	—12	— 5	—15	7	5	12.6
Forest City	Maximum	39	39	35	36	25	32	32	41	37	31	43	36	23	22	26	33	23	22	43	32	24	20	33	25	15	0	1	12	19	24	33	27.6
	Minimum	6	30	30	22	8	8	17	23	20	24	30	21	10	12	11	11	7	3	12	17	8	8	— 1	11	— 6	—13	—14	— 5	—12	1	— 2	9.6
Independence	Maximum	35	37	38	36	31	30	32	40	38	32	36	37	26	26	25	24	21	19	37	46	27	19	33	35	20	12	1	5	12	20	27	27.6
	Minimum	11	24	21	30	11	11	12	27	26	14	25	24	11	14	20	— 7	— 2	—11	11	19	11	3	— 5	7	1	—11	—19	—14	—18	— 1	— 4	7.8
Inwood	Maximum	42	47	42	33	21	33	33	47	43	32	49	42	23	21	30	32	19	30	28	22	16	17	35	20	12	6	1	6	11	13	30	27.0
	Minimum	11	28	33	18	10	10	11	20	23	25	29	21	15	12	11	9	11	11	17	14	8	1	4	10	— 9	—13	—19	—15	—17	—16	2	8.9
Mason City	Maximum	36	36	34	35	22	24	32	40	33	34	38	37	21	23	24	29	18	21	41	31	18	34	19	17	17	— 7	— 1	5	17	22	33	25.3
	Minimum	8	27	31	20	9	9	17	29	26	23	27	19	10	12	8	3	3	— 1	12	16	8	8	9	8	— 8	—13	—14	— 9	—15	— 6	0	8.9
Milford (near)	Maximum	43	46	43	35	20	29	40	38	38	33	47	45	29	19	31	31	21	27	31	44	15	18	35	35	36	25	12	4	12	13	29	29.8
	Minimum	12	31	33	17	7	11	29	21	23	27	27	20	10	10	13	10	5	10	17	12	6	5	— 3	—10	9	—10	—15	— 3	—12	— 5	— 2	9.8
New Hampton	Maximum	28	33	38	36	33	14	28	34	39	31	33	33	32	21	24	23	25	13	30	33	25	22	17	33	19	8	— 7	1	4	10	20	23.6
	Minimum	9	12	30	31	10	9	12	20	26	15	26	27	12	10	12	3	10	—10	6	21	8	3	15	7	— 4	—15	—17	—13	—14	— 8	— 3	8.1
Northwood	Maximum	34	38	33	34	19	22	34	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	28	38	28	.....	17	31	.....	14	12	4	10	16	21	26	25.0k
	Minimum	6	26	31	19	9	10	19	.....	.....	24	.....	.....	.....	.....	.....	.....	10	3	19	.....	7	7	1	10	— 4	—12	—14	— 5	— 8	— 4	3	7.1i
Pocahontas	Maximum	45	46	44	34	20	30	35	42	41	32	46	38	25	21	27	30	18	27	42	35	22	12	37	30	21	0	5	11	14	14	35	28.4
	Minimum	16	31	34	18	9	11	19	31	24	28	29	24	15	15	10	5	1	10	11	15	6	0	— 4	10	— 6	— 8	—13	— 9	—13	— 6	— 4	10.0
Postville	Maximum	32	38	35	35	28	20	30	41	31	31	33	34	22	23	22	29	14	16	40	26	23	16	30	19	18	4	1	4	14	22	28	24.5
	Minimum	10	21	28	25	7	7	6	13	16	8	23	9	4	6	5	— 2	— 5	—11	11	17	2	.....	— 4	2	— 8	—20	—20	—16	—19	—16	— 6	3.0
Rock Rapids	Maximum	41	47	40	34	34	32	36	43	38	33	48	37	37	20	30	28	20	30	28	23	18	17	25	23	15	— 4	0	0	5	5	20	25.9
	Minimum	12	30	34	19	10	15	26	30	22	28	30	12	14	12	12	11	9	16	15	14	9	4	5	13	— 5	— 9	—15	— 9	—15	—11	— 2	10.8
Central Division																																	
Belle Plaine	Maximum	40	40	48	38	32	26	34	44	40	35	37	41	24	27	26	26	13	25	39	32	24	17	36	31	22	5	2	11	17	29	34	28.9
	Minimum	14	27	32	26	13	12	10	26	22	16	23	24	13	18	9	— 6	— 1	— 8	20	24	8	— 3	— 4	9	0	— 8	—13	— 8	—11	3	— 1	9.2
Boone	Maximum	48	47	39	37	25	31	36	48	44	32	46	42	29	25	30	28	18	34	44	33	20	14	39	34	22	4	2	14	20	25	38	30.6
	Minimum	15	32	35	24	11	11	15	31	23	27	24	29	18	21	12	— 8	— 5	1	22	20	6	— 1	—11	10	1	— 6	—12	— 9	—14	— 6	— 6	10.0
Carroll	Maximum	49	51	42	36	25	33	36	50	36	48	42	39	30	23	26	25	17	32	41	31	16	13	41	32	20	10	1	15	17	18	39	30.1
	Minimum	19	35	34	21	12	16	22	30	26	22	29	27	18	18	11	1	— 2	13	29	13	9	0	2	5	5	— 7	—13	— 6	— 5	0	4	12.5
Cedar Rapids	Maximum	38	36	40	40	29	23	35	40	36	34	35	40	25	29	28	22	17	22	41	30	28	17	35	31	21	8	2	8	14	26	30	27.7
	Minimum	10	23	31	26	11	11	8	21	25	15	22	22	9	15	12	—10	— 3	—13	18	22	8	— 4	— 4	8	3	— 9	—15	— 8	—13	— 3	— 2	7.6
Davenport	Maximum	29	40	46	44	37	24	35	42	36	38	36	45	28	31	31	25	16	33	42	33	27	16	36	29	19	7	2	10	15	27	34	29.5
	Minimum	24	26	32	36	15	16	21	27	29	23	31	23	20	21	16	6	9	4	31	27	13	4	5	16	4	— 8	—11	— 2	— 3	11	7	15.3
Des Moines	Maximum	47	50	41	37	21	33	40	52	49	40	48	44	27	27	28	25	17	37	44	33	18	18	39	28	15	7	3	14	18	25	40	31.1
	Minimum	22	32	36	17	13	16	27	32	29	28	34	26	22	23	6	0	10	12	30	18	9	3	3	15	7	— 6	— 9	— 2	— 2	7	5	14.9
Ft. Dodge	Maximum	46	47	40	37	24	29	35	45	42	35	49	42	30	24	25	28	23	36	41	35	19	14	36	31	14	4	2	12	16	18	36	29.5
	Minimum	19	32	33	20	7	9	20	29	22	26	27	26	14	15	16	1	3	3	22	15	7	1	— 4	9	— 7	— 8	—16	—11	—15	— 3	— 3	10.0
Grinnell	Maximum	45	45	40	40	30	27	54	45	45	39	40	41	36	25	26	29	22	30	44	41	28	17	35	37	26	9	0	13	18	30	38	32.1
	Minimum	19	29	31	26	11	11	16	28	24	22	27	32	17	18	19	2	7	0	25	25	12	1	8	13	0	— 4	—13	— 6	— 6	7	2	13.0
Guthrie Center	Maximum	49	48	48	37	29	34	35	52	52	43	51	45	36	24	20	20	17	37	38	38	28	15	36	35	20	10	— 2	14	15	23	37	31.7
	Minimum	18	33	36	24	12	16	24	29	23	27	29	34	18	18	17	0	0	12	29	17	7	5	2	17	9	— 5	—14	— 5	— 4	2	4	14.0
Iowa City	Maximum	32	38	43	44	31	23	33	42	38	34	35	42	27	29	30	25	17	24	40	34	27	16	37	37	23	7	1	8	15	26	34	28.8
	Minimum	18	26	33	30	14	13	12	25	27	19	25	26	17	21	17	— 8	2	— 9	21	25	14	4	— 2	12	5	— 5	—11	— 4	—11	1	3	11.6
Iowa Falls	Maximum	38	42	36	35	24	29	33	41	38	32	40	36	26	24	26	30	15	22	39	29	21	14	36	30	18	2	1	8	14	25	32	27.0
	Minimum	8	30	33	24	11	10	17	27	26	26	27	25	15	16	8	— 6	2	—11	17	20	7	5	— 4	5	— 7	— 8	—15	—11	—18	—10	— 2	8.6
Little Sioux	Maximum	50	58	49	37	29	41	42	55	55	39	56	49	32	28	29	24	21	37	43	30	18	18	47	32	19	10	5	16	21	22	41	34.0
	Minimum	19	37	32	23	14	17	32	30	25	27	27	29	22	18	18	16	0	12	29	17	7	5	— 4	16	5	— 5	—13	— 8	— 7	— 2	5	13 2
Marshalltown	Maximum	44	43	38	38	25	27	33	45	41	35	41	39	27	25	27	25	15	27	43	32	20	15	36	31	20	4	2	10	16	27	34	28 5
	Minimum	17	31	33	25	12	13	20	30	27	25	29	27	18	18	16	0	7	0	26	20	8	3	.....	13	— 1	— 7	—12	— 5	— 7	6	3	12.7
Olin	Maximum	31	36	40	40	35	20	36	41	38	34	35	40	30	30	30	23	17	20	40	34	28	18	32	34	22	8	0	10	15	28	29	28 2
	Minimum	22	24	31	34	15	13	12	24	28	17	26	26	16	18	22	— 9	0	—11	8	23	15	2	— 2	9	0	— 6	—12	— 6	—12	— 2	0	10.5
Sioux City	Maximum	48	53	46	34	27	37	40	50	48	33	54	41	24	23	26	27	20	31	32	24	16	17	41	24	15	7	1	9	17	15	37	29.6
	Minimum	26	35	33	19	11	17	35	32	29	25	32	23	20	17	8	0	12	19	20	16	10	4	5	15	4	— 8	—12	— 5	— 6	— 1	8	14.3
Southern Division																																	
Albia	Maximum	45	49	44	43	26	29	37	47	50	40	43	49	31	28	28	27	21	36	43	35	28	16	36	37	23	11	0	13	22	30	38	32.4
	Minimum	21	30	35	25	12	16	18	30	26	26	32	30	20	22	20	— 1	2	6	30	27	13	2	3	19	8	— 3	—10	— 3	0	10	6	15.2
Atlantic	Maximum	46	52	44	38	27	33	39	49	55	44	48	45	30	25	23	22	17	36	40	33	15	12	37	32	20	11	0	10	19	16	39	30.9
	Minimum	18	35	37	23	15	19	29	31	25	25	33	28	20	18	13	— 7	5	15	29	14	8	6	5	20	7	— 5	—11	— 6	0	3	3	14.7
Burlington	Maximum	30	42	48	45	36	27	39	42	43	36	40	47	34	32	32	28	20	32	41	38	32	17	36	39	36	8	1	14	21	31	35	32 3
	Minimum	26	26	33	36	17	15	20	27	28	28	30	31	22	25	27	6	8	4	28	28	16	4	7	20	8	— 2	— 9	— 1	3	12	9	17 2
Columbus Jct.	Maximum	33	39	45	45	32	24	36	41	40	37	35	44	33	30	30	27	19	26	42	36	30	18	36	36	30	7	0	10	16	27	35	30 3
	Minimum	19	20	31	32	14	13	12	26	25	23	28	29	18	23	25	— 3	5	— 5	25	26	15	0	— 2	11	5	— 5	—11	— 4	— 4	3	3	12 8
Corning	Maximum	47	52	55	49	47	38	39	56	61	49	53	53	42	34	28	25	18	40	45	39	24	21	38	39	27	17	1	18	25	24	44	37.0
	Minimum	16	28	35	34	16	16	23	23	22	25	32	29	22	20	8	—10	0	16	28	17	7	6	4	20	10	— 4	—10	— 4	— 5	7	3	14.0
Corydon	Maximum	46	53	48	47	27	32	44	52	52	44	46	54	39	28	26	31	26	37	42	36	28	12	36	39	35	26	0	11	24	32	39	35 2
	Minimum	20	32	32	24	12	18	20	22	25	24	32	36	21	22	17	— 1	3	5	22	27	10	4	5	13	8	— 2	—10	— 4	0	8	7	14 6
Creston	Maximum	46	51	44	41	28	34	44	52	51	44	48	53	31	26	20	26	16	38	37	35	20	15	36	35	20	8	10	12	22	22	41	32 5
	Minimum	18	35	40	23	14	19	25	30	28	26	31	29	20	20	4	3	12	11	28	12	5	3	4	18	— 3	— 1	—13	— 7	— 1	9	4	14 4
Fairfield	Maximum	31	39	46	46	27	27	38	42	40	34	38	43	32	28	29	24	17	30	40	35	29	16	36	37	29	8	— 2	11	19	27	36	30.1
	Minimum	15	24	33	26	14	14	9	30	23	23	27	32	18	23	17	4	— 3	— 4	28	27	14	— 1	— 2	11	1	— 7	—11	— 3	— 4	— 1	5	12 1
Keokuk	Maximum	31	42	51	52	24	29	39	43	47	40	41	50	29	33	32	28	18	41	45	36	28	18	37	45	24	9	3	17	25	32	40	33 2
	Minimum	24	29	35	24	16	18	21	31	30	29	33	28	23	27	22	9	7	5	33	28	10	6	10	22	6	— 4	— 8	1	5	14	10	17.5
Knoxville	Maximum	47	50	41	40	25	30	38	50	47	38	45	47	35	25	27	25	27	36	44	35	26	15	35	35	25	9	0	8	16	31	39	32 0
	Minimum	18	31	34	24	12	15	17	30	25	26	28	34	19	19	21	— 5	5	8	30	26	11	5	0	17	7	— 5	—11	— 3	— 3	5	3	14.3
Lamoni	Maximum	45	52	49	42	28	36	38	53	56	15	49	55	34	27	26	31	25	38	42	36	21	20	37	37	25	16	1	17	21	29	41	34 6
	Minimum	19	33	40	24	14	19	20	31	25	24	29	33	22	21	13	— 3	6	12	28	19	7	5	2	18	8	— 3	—10	— 3	0	5	5	14 9
Sigourney	Maximum	40	42	41	41	30	25	35	44	41	36	37	44	34	28	27	27	20	28	37	35	28	16	35	35	29	5	0	10	19	27	35	30 0
	Minimum	16	26	32	29	14	13	11	29	22	23	21	31	15	21	19	— 5	0	— 9	21	27	14	0	— 4	11	3	— 5	—13	— 5	— 9	—1	2	11 3
Thurman	Maximum	50	58	52	36	30	38	42	54	57	48	54	54	42	35	27	28	22	41	45	36	28	23	42	38	28	21	3	15	25	22	48	36 8
	Minimum	17	39	36	28	14	19	28	30	25	21	30	34	25	20	15	— 2	8	18	32	18	12	6	5	24	14	3	— 8	— 2	2	14	5	17.1
Winterset	Maximum	48	52	48	40	24	35	37	53	60	44	44	43	35	25	25	25	21	38	43	36	21	20	38	35	25	12	1	15	22	25	40	33 2
	Minimum	22	35	38	22	12	18	23	31	26	27	34	30	20	25	19	5	5	12	29	20	9	5	3	19	7	— 3	—12	— 6	— 1	10	5	15 8
Omaha, Neb.	Maximum	52	58	50	33	29	39	41	54	54	46	56	48	29	27	24	21	21	40	43	29	18	16	43	34	20	11	2	13	23	21	46	33 6
	Minimum	28	39	33	20	16	20	35	35	34	28	37	28	23	19	15	11	9	21	27	16	10	6	13	19	11	— 5	— 9	— 2	6	7	16	18 3

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

TOTAL PRECIPITATION, DECEMBER, 1925



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 SERVICE
CHARLES D. REED, Meteorologist

VOL. XXXVI DES MOINES, IOWA, ANNUAL, 1925 No. 13

GENERAL SUMMARY

The mean temperature of the year 1925, 48.8°, is 0.8° above normal. All the months averaged warmer than usual except May, October, November and December. October was notably cold—the coldest of record with record breaking low temperatures on the 29th. The precipitation of 1925 averaged 28.24 inches or 3.98 inches below normal. The first five months were the driest of record. July and November were also deficient. Only June and September had notable excesses. Drouth was at times serious in the western portion of the State where wells and streams failed.

Hay, pastures and small grains were damaged by the early drouth but small grains largely recovered. Corn was injured some by drouth and heat in July and by rather continuous drouth in the northwest counties. Conditions were unusually favorable for corn in the eastern portion of the State where about twelve counties reported the largest yields per acre in the history of the State. Unusually cold, cloudy weather with frequent rain and a heavy snow in October made corn too moist to crib and injured seed corn.

SYNOPSIS BY MONTHS

January averaged nearly normal in temperature but was deficient in precipitation and snowfall. In the western portion of the State from the 9th to the 18th, temperatures were mostly below normal and there was a cold period, 26th-27th, throughout the State. The usual outdoor activities were uninterrupted except on the coldest days. Building operations and ice harvest made good headway and some corn husking was done.

February mean temperature, 28.4°, made the month one of the warmest of record. There were no prolonged cold spells and the temperature was below normal for only three brief periods. In about 85 per cent of the State, precipitation was deficient, while in small areas in the extreme southwest and extreme southeast portions, there was an excess. A wide belt running east and west across the State began to show need of more moisture. Snowfall was generally deficient and caused no interference with traffic, but thawing made many dirt roads nearly impassable during the first half of the month.

Mild weather continued in March, aside from cold spells, 1st-2nd, and 14th-15th. Trees and fruit buds were advanced about two weeks ahead of normal. Precipitation was well distributed through the month but mostly too light to penetrate the soil except on the 13th. Frost left the ground much earlier than usual and the preparation of the soil and seeding of oats and spring wheat progressed with practically no interruption during the last half of the month, to a stage much ahead of the average. Drouth, low humidity and windy days were unfavorable to certain kinds of vegetation. Dry soil drifted and covered up some winter wheat, leaving the roots exposed in spots. It was too dry for oats to germinate much and grasses were generally dormant. A number of small streams were completely dry and an unusually large number of wells failed.

Unusually mild weather prevailed practically the entire month of April, which was the warmest of record except April, 1915. At a number of stations the temperature did not reach the freezing point, although a decided change to colder occurred at the close of the month. The night of April 21st-22nd was more like a July night. Vegetation advanced far beyond the average. Under ideal conditions fruit trees blossomed in some parts of the State nearly three weeks ahead of the average date. Strawberries were damaged somewhat by frost at the end of the month but most tree fruit escaped injury. The weather was ideal for all farm work. The preparation of the soil for corn was pushed rapidly and considerable planting was done in the southern half of the State. Precipitation was generally deficient except in the southeast and south-central portions and wells and streams continued to go dry and crops in large areas were badly in need of rain. A number of severe local electric, wind and hail storms occurred from the 18th to 21st.

May was characterized by great extremes and numerous changes in temperatures. While neither the maximums nor minimums equalled the record for the State for May, a great many stations in the northwestern and central divisions reported the highest of record for May; and the low temperatures that occurred during the last week in May were the lowest ever recorded so late in the season. Following the abnormally high temperature on the 22nd, the temperature made the most remarkable drop ever recorded in the State except in winter. Over a large area in northeastern Iowa the drop amounted to more than 65° in a period of thirty-six hours. In this short period, both the high and low May temperature records for this section of the State were broken. Frosts of varying degrees occurred with unusual frequency until the 27th, causing severe damage to all vegetation susceptible to frost. All fruit and truck crops were seriously injured. Considerable corn was cut down by the hard freeze of the 25th but practically all recovered without replanting. Besides being the driest May of record, the current five-month period was the driest similar period of record. Although remarkably favorable for all outdoor work, the month was detrimental to practically all crops. Further failures of wells, streams and general water supply were reported.

The persistent drouth was broken in June. Some stations reported amounts exceeding the total for eight months preceding. There were many destructive hail, wind and electrical storms. Fifteen minor tornadoes were reported. Temperatures averaged slightly above normal, with a cool period during the last week. Crops made a wonderful recovery; oats, which had started to head "short," lengthened greatly and filled well during the cool period at the close of the month; and corn made unusual growth.

Hot weather prevailed the first half of July, followed by rather cool the last half. Precipitation was generally deficient and unevenly distributed. Drouth became severe over the western half of the State and limited areas in other sections. While corn made some progress, its relative condition at the close of July was not as good as at the beginning. However, the cool weather toward the close of the month lessened the drouth damage. Severe wind squalls and hail storms were frequent. Conditions were favorable for haying, harvesting and threshing and small grains turned out much better than seemed possible at the close of May.

August temperature averaged slightly above normal, with a rather protracted warm spell toward the close of the month. Precipitation was very nearly normal, but much localized in distribution. In the northwest portion of the State, drouth was especially severe and corn was seriously damaged. Water trains were run out of Des Moines to towns in the vicinity. What is believed to be the worst hail storm in the history of the State occurred on the 18th. This storm extended from the southeast corner of Poweshiek county southeastward over Iowa, Keokuk, Washington, Jefferson, Henry, Des Moines and Lee counties. The damage is conservatively estimated at $2,500,000.

Abnormally high temperature prevailed during the first ten days of September. The average temperature was the highest of record except in 1897. While no State records were broken, a number of stations report the highest maximum temperatures of the year and several stations reported the highest of record for the month. Cool periods occurred from the 11th to the 15th and from the 20th to the 24th. Precipitation was above normal and rather uniform in all divisions. Downpours occurred in the northern and central divisions on the 1st. The intense heat during the first wek caused the corn to mature too rapidly in some portions of the State but in the eastern portion, where the crop was rank and rather late, the warm weather was beneficial. By the end of the month, the crop was practically safe from frost. The heat, also, injured pastures but the rain, at the close of the month, was of great benefit.

October mean temperature, 41.2°, was 11.7° below normal and the coldest in fifty-three years, in striking contrast to 1924 which was the warmest in forty-seven years. The minimum temperatures were much lower at all stations than previously recorded for October and zero weather heretofore practically unknown in October occurred in more than one-half of the State, the lowest reported being -15° at Inwood. Zero temperature reached to the Missouri line. The first killing frost occurred at a number of stations on the 7th and by the 10th killing frost had visited the entire State. Owing to the advanced state of vegetation, there was very little damage to staple crops, but considerable damage to late truck crops. Precipitation was above normal and unusually frequent, with very little sunshine so that corn which was of unusually high quality at the beginning of the month failed to dry out and was much damaged by mold. Heavy snowfall on the 25th-27th damaged down corn. Husking started about the middle of the month but much of the early husked corn heated in the cribs and less than 20% had been husked by the close of the month. The excellent condition of the corn at the beginning of the month caused procrastination in seed corn saving and subsequent moist weather and severe temperature rendered much corn unfit for planting and imperilled the 1926 crop.

Nearly normal temperature prevailed in November but there was a decided deficiency in precipitation. More zero weather was reported in the central and southern divisions than in the northern division of the State. Corn husking was pushed rapidly after the first week although there were continued reports of corn heating in the cribs. Plowing was resumed about the middle of the month when frost left the ground. Water shortage continued in the western half of the State where additional wells were reported failing. Because of the unfavorable fall, considerable acreage intended for winter wheat could not be seeded and considerable late seeded wheat failed to germinate or made little showing above the ground.

Although December temperature average 3° below normal, the month could not be regarded as severe. Precipitation was uniformly distributed and averaged slightly above normal. It was mostly in the form of snow, and blizzard conditions occurred on the 24th. Deep snow drifts formed over large areas in the east and south portions of the State, blocking highways and delaying railway traffic. During the more severe weather, winter grains and grasses were well protected by an evenly distributed snow covering. The heavy snowfall interferred with belated corn husking and there was still considerable to be gathered in the southeast portion of the State at the end of the month.

SUPPLEMENTAL PRECIPITATION TABLE, YEAR 1925

STATIONS	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Northern Division													
Lansing	.....	.....	1.73	2.19	1.16	8.20	7.48	3.54	5.27	1.85	1.34	.....	.....
Milford (near)	0.83	1.48	1.10	1.89	0.30	3.39	2.31	.....	3.88	1.48	0.18	0.80	.....
New Hampton	0.15	0.58	0.98	1.64	2.39	7.69	3.77	4.01	.....	1.78	1.32	1.07	.....
Oelwein	.....	.....	1.00	0.80	1.20	13.30	4.30	2.80	5.25	2.85	0.81	1.60	.....
Sheldon	.....	.....	.....	.....	.....	.....	0.90	0.51	3.37	1.09	0.70	0.89	.....
Waverly	.....	0.39	1.55	1.31	1.18	10.10	.....	3.60	5.99	3.14	0.85	2.06	.....
Central Division													
Grundy Center	0.05	0.82	1.60	1.01	1.43	5.99	4.41	4.08	7.03	3.24	0.98	.....	.....
Harlan	0.48	.....	0.10	0.36	0.75	5.91	1.42	5.42	3.52	3.37	0.35	0.63	.....
Kalo	.....	.....	.....	2.37	0.67	6.62	4.87	3.42	7.44	2.93	0.20	.....	.....
Le Claire	.....	.....	1.51	3.54	0.92	6.69	1.98	3.36	7.52	3.98	.....	.....	.....
Maquoketa	.....	.....	.....	3.48	1.04	7.49	3.99	2.34	6.36	3.43	2.30	1.46	.....
Muscatine	0.38	1.39	1.01	4.11	0.90	4.99	2.14	2.51	7.77	4.05	1.38	2.54	33.17
Rockwell City	0.50	.....	.....	.....	0.96	4.25	2.35	2.37	2.75	1.62	0.21	0.90	.....
Van Meter	0.20	0.41	0.79	1.67	0.68	4.82	1.69	4.31	3.01	3.80	0.30	1.10	22.78
Southern Division													
Columbus Jct.	.....	.....	.....	.....	1.06	4.93	1.53	2.70	6.57	3.69	1.21	2.33	.....
Pella	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

COMPARATIVE DATA FOR THE STATE—Annual

Year	Temperature: Mean annual	Highest	Date	Lowest	Date	Precipitation in Inches: Annual	Greatest annual	Least annual	Average snowfall
1890	48.0	110	July 13	—27	January 22	31.30	45.74	16.00	.....
1891	47.3	106	August 9	—31	February 4	32.90	49.05	23.48	.....
1892	46.6	104	July 11	—38	January 19	36.58	48.77	24.78	34.2
1893	45.7	102	July* 13	—36	January 14	27.59	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	38.8
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 10	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	27.20	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	31.3
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	29.98	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	31.39	43.85	19.41	37.2
1925	48.8	105	July* 1	—25	December 29	28.24	45.53	13.77	29.2

*And other dates.

CLIMATOLOGICAL DATA FOR THE YEAR 1925

STATIONS	COUNTIES	Elevation, feet	Temperature, in Degrees Fahrenheit						Precipitation, in Inches							Number of Days				Prevailing direction of wind
			Length of record, years	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	
Northern Division																				
Algona	Kossuth	1,213	52	47.5	100	July 1	—18	Jan. 27	52	26.91	7.36	Sept.	0.21	Nov.	46.0	67	240	63	62	se.
Allison (near)	Butler	1,044	13	46.8	100	May 22†	—18	Dec. 27	13	25.72	5.54	Sept.	0.10	Jan.	21.5	75	172	109	84	nw.
Alta	Buena Vista	1,513	34	47.2	103	Sept. 3	—17	Jan. 27	34	24.53	8.20	June	0.41	Jan.	35.6	87	176	121	68	nw.
Alton	Sioux	1,305	20	46.9	101	July 11†	—17	Jan. 27	20	14.42	3.24	June	0.31	May ‡	28.5	77	106	166	93	nw.
Belmond	Wright	1,205	15	46.8	102	July 12	—18	Dec. 27	15	33.66	10.10	June	0.52	Feb.	37.7	99	73	214	78	nw.
Britt	Hancock	1,236	38	46.4	101	July 12	—18	Jan. 27	38	27.32	9.40	June	0.34	Mar.	31.0	66	183	96	86	nw.
Charles City	Floyd	1,015	34	45.8	99	May 22	—17	Dec. 29	34	27.65	9.39	June	0.10	Jan.	30.7	112	148	119	98	se.
Cherokee	Cherokee	1,196	3	46.5	100	Sept. 3	—19	Jan. 27	3	19.56	5.35	June	0.16	Feb.	28.5	83	.....	.....	.....	s.
Decorah	Winneshiek	875	32	.....	98	July 11	—24	Dec. 29	32	27.74	8.75	June	0.20	Jan.	37.5	91	205	77	83	nw.
Dubuque	Dubuque	698	52	48.2	97	Sept. 4	—15	Dec. 29	52	35.76	10.80	June	0.11	Jan.	32.0	108	100	118	147	s.
Estherville	Emmett	1,298	30	45.3	100	July 11†	—21	Jan. 27	30	21.91	7.50	Sept.	0.45	Jan.	30.5	84	188	127	50	s.
Fayette	Fayette	1,003	37	46.3	98	Sept. 4	—24	Dec. 29	37	30.98	7.39	June	0.15	Jan.	46.9	89	.....	.....	.....	nw.
Forest City	Winnebago	1,226	31	46.3	98	Sept. 2†	—15	Jan. 27	31	24.66	7.15	June	0.40	Jan.	27.9	85	144	100	121	nw.
Hampton	Franklin	1,145	1	46.3	99	Sept. 4	—14	Dec. 27	1	24.82	6.01	June	0.11	Jan.	30.3	85	186	99	80	nw.
Humboldt	Humboldt	1,095	37	47.6	103	Sept. 4	—19	Jan. 14	37	24.57	6.39	Sept.	0.36	Feb.	43.5	66	.....	.....	.....	n.
Independence	Buchanan	921	61	48.1	99	May 22	—19	Dec. 27	61	33.06	9.47	June	0.18	Jan.	40.3	79	197	61	107	nw.
Inwood	Lyon	1,474	21	46.5	105	Sept. 2	—20	Jan. 27	21	17.95	4.70	June	0.23	Mar.	25.7	84	224	73	68	nw.
Le Mars	Plymouth	1,224	29	47.7	102	Sept 2	—16	Jan. 27†	29	17.68	5.89	June	0.08	Feb.	25.5	70	235	73	57	sw.
Mason City	Cerro Gordo	1,148	28	45.7	100	May 22†	—15	Jan. 14†	28	27.29	8.51	June	0.23	Jan.	36.2	77	129	163	73	nw.
Milford (near)	Dickinson	1,430	5	.....	.....	.....	—24	Jan. 27	5	.....	.....	.....	.....	.....	36.8	.....	.....	.....	.....	s.
New Hampton	Chickasaw	1,169	28	.....	.....	.....	—17	Dec. 27	28	.....	.....	.....	.....	.....	34.2	.....	.....	.....	.....	nw.
Nora Springs	Floyd	1,064	13	46.8	101	May 22	—18	Dec. 29	13	35.09	11.34	June	0.50	Jan.	28.2	117	168	125	72	s.
Northwood	Worth	1,222	29	.....	96g	May 22	—15a	Jan. 27	29	27.96	8.40	June	0.25	Jan.	31.7	86	.....	.....	.....	nw.
Oelwein	Fayette	1,036	2	47.0	97	July 1†	—18	Dec. 29	2	.....	13.30	June	.....	.....	.....	.....	172	104	89	s.
Osage	Mitchell	1,163	.....	45.2	98	May 22†	—15	Jan. 14†	.....	28.09	9.04	June	0.37	Jan.	40.3	93	.....	.....	.....	nw.
Pocahontas	Pocahontas	1,248	21	47.1	101	July 1	—19	Jan. 27	21	22.30	5.10	June	0.37	Nov.	36.6	89	198	93	74	se.
Postville	Clayton	1,180	26	44.5	93	Sept. 2†	—20	Dec. 26†	26	37.06	10.49	June	0.15	Jan.	42.1	88	117	149	99	nw.
Rock Rapids	Lyon	1,358	26	46.5	102	July 12	—21	Jan. 14†	26	18.55	4.75	June	0.21	Mar.	28.8	83	232	67	66	se.
Sanborn	O'Brien	1,553	11	46.2	104	July 12	—20	Jan. 26	11	13.77	3.09	June	0.13	Mar.	29.6	65	206	89	70	se.
Sioux Center	Sioux	1,426	26	.....	102	Sept. 2	—20	Jan. 27	26	18.79	4.65	June	0.42	Feb. §	30.0	67	.....	.....	.....	s.
Spencer	Clay	1,319	11	46.9	103	July 15	—22	Jan. 27	11	24.07	7.37	Sept.	0.33	May	43.7	85	162	128	75	nw.
Storm Lake	Buena Vista	1,440	36	48.1	99	Sept. 3	—16	Jan. 27	36	16.57	5.34	June	0.17	Mar.	25.9	77	226	61	78	s.
Washta	Cherokee	1,157	27	.....	99	Sept. 4	—19	Dec. 29	27	25.47	10.05	June	0.20	Feb.	29.0	69	207	82	76	s.
Waterloo	Black Hawk	854	42	48.4	101	May 22†	—23	Dec. 29	42	26.50	6.99	June	0.08	Jan.	27.8	83	215	64	86	se.
Waverly	Bremer	936	29	.....	.....	.....	—25a	Dec 29	29	.....	10.10	June	0.12	Jan.	35.6	.....	.....	.....	.....	nw.
West Bend	Palo Alto	1,197	32	46.5	101	July 12	—22	Jan. 27	32	23.30	6.37	June	0.12	Feb.	.....	92	157	138	70	nw.
Central Division																				
Ames	Story	926	48	49.2	105	July 1	—12	Dec. 27	48	28.98	6.46	Aug.	0.16	Jan.	22.6	84	197	92	76	nw.
Audubon	Audubon	1,297	30	48.0	98	July 1	—16	Jan. 27	30	28.13	7.56	June	0.04	Feb.	30.4	72	175	126	64	sw.
Baxter	Jasper	998	25	48.8	104	July 1	—15a	Dec. 27	25	22.45	4.98	Sept.	0.08	Jan.	21.8	68	.....	.....	.....	s.
Belle Plaine	Benton	866	35	49.2	104	Sept. 4	—13	Dec. 27	35	25.88	5.59	Sept.	0.27	Jan.	43.6	103	131	144	90	nw.
Boone (near)	Boone	1,134	20	48.5	103	July 1	—14	Jan. 27	20	25.96	5.24	Aug.	0.05	Feb.	24.5	74	.....	.....	.....	s.
Carroll	Carroll	1,265	35	48.9	101	July 1	—15	Jan. 27	35	24.29	5.26	June	0.04	Feb.	23.5	70	235	54	76	nw.
Cedar Rapids	Linn	737	43	48.7	105	Sept. 4	—15	Dec. 27	43	29.92	7.02	June	0.08	Jan.	29.2	87	156	60	149	nw.
Clinton	Clinton	595	52	49.4	100	Sept. 4	—12	Dec. 27	52	33.57	7.27	Sept.	0.19	Jan.	24.6	81	207	67	91	s.
Davenport	Scott	580	54	50.3	99	July 11	—11	Dec. 27	54	37.49	8.16	Sept.	0.40	Jan.	27.9	105	133	109	123	nw.
Davenport (No. 2)	Scott	690	1	50.6	101	Sept. 4	—12	Dec. 27	2	39.38	8.73	Sept.	0.38	Jan.	27.2	109	.....	.....	.....	....
Denison	Crawford	1,171	31	48.7	100	July 1	—13	Jan. 27	31	26.04	6.97	June	0.21	Feb.	27.5	78	174	108	83	nw.
Des Moines	Polk	861	47	50.6	104	July 1	— 9	Dec. 27	47	26.42	6.44	June	0.23	Jan.	30.3	89	113	117	135	n.
Fairport	Muscatine	567	4	50.8	99	Sept. 4†	—12	Dec. 27	4	33.52	6.89	Sept.	0.48	Jan.	20.2	101	169	70	126	nw.
Fort Dodge	Webster	1,114	25	47.5	101	July 1	—19	Jan. 14†	25	28.72	7.33	June	0.35	Feb.	39.0	89	220	32	113	nw.
Grinnell	Poweshiek	1,031	31	50.2	104	July 2	—13	Dec. 27	31	30.80	7.56	July	0.17	Jan.	26.6	97	112	178	75	se.
Grundy Center	Grundy	976	34	.....	100	July 1	.....	.....	34	.....	7.03	Sept.	0.05	Jan.	.....	.....	.....	.....	.....	n.
Guthrie Center	Guthrie	1,077	30	49.5	100	July 1	—15	Jan. 27	30	26.24	8.36	Aug.	0.27	Feb.	30.0	66	218	75	72	sw.
Harlan (near)	Shelby	1,192	26	.....	100	July 1	—13	Dec. 27	26	.....	5.91	June	0.10	Mar.	.....	.....	.....	.....	.....	s.
Iowa City	Johnson	733	65	48.9	99	Sept. 4	—11	Dec. 27†	65	30.92	5.61	June	0.29	Jan.	29.2	102	158	113	94	nw.
Iowa Falls	Hardin	1,107	32	46.9	99	May 22	—18	Dec. 29	32	29.25	6.61	Sept.	0.24	Jan.	36.1	97	157	109	99	nw.
Jefferson	Greene	1,052	26	47.9	100	July 1	—14	Jan. 27†	26	21.24	7.16	June	0.05	Feb.	32.5	67	.....	.....	.....	sw.
Little Sioux	Harrison	1,040	20	50.7	102	July 1	—13	Dec. 27	20	28.10	4.67	Sept.	0.33	Nov.	37.4	80	177	125	63	nw.
Logan	Harrison	1,035	58	50.9	101	May 22	—10	Dec. 27	58	21.42	5.92	June	0.09	Feb.	22.5	55	207	74	84	sw.
Maquoketa	Jackson	692	.....	.....	98	Sept. 4	.....	.....	.....	.....	7.49	June	.....	.....	.....	.....	.....	.....	.....	....
Marshalltown	Marshall	947	33	49.6	105	July 1	—12	Dec. 27	33	25.76	6.31	Sept.	0.15	Jan.	36.0	94	194	70	101	nw.
Monroe	Jasper	922	13	50.5	105	July 1	—13	Dec. 27	13	28.87	4.78	June	0.17	Jan.	30.8	80	202	48	115	s.
Muscatine	Muscatine	544	.....	.....	.....	.....	.....	.....	64	33.17	7.77	Sept.	0.38	Jan.	29.5	.....	.....	.....	.....	....
Olin	Jones	760	26	48.1	99	July 3†	—14	Jan. 18	26	34.12	8.90	June	0.35	Jan.	.....	63	.....	.....	.....	nw.
Onawa	Monona	1,051	24	49.2	102	July 1	—11	Jan. 27†	24	26.99	5.10	June	0.21	Nov.	36.0	64	220	42	103	s.
Perry	Dallas	975	24	49.3	105	July 1	—12	Dec. 27†	24	24.05	5.51	Aug.	0.07	Feb.	28.5	82	.....	.....	.....	nw.
Sac City	Sac	1,278	49	47.6	103	July 1	—17	Jan. 27	49	21.75	4.81	June	0.35	Feb.	36.0	67	.....	.....	.....	s.
Sioux City	Woodbury	1,135	36	49.1	100	July 15	—12	Dec. 27	36	18.01	5.36	June	0.17	Feb.	28.1	81	132	130	103	s.
Tipton (near)	Cedar	807	26	48.5	96	July 3†	—13	Dec. 27†	26	33.36	5.92	June	0.17	Jan.	24.4	88	151	118	96	w.
Toledo	Tama	856	31	48.8	102	July 1†	—14	Dec. 27	31	25.63	6.52	Sept.	0.17	Jan.	31.0	83	.....	.....	.....	nw.
Van Meter	Dallas	872	.....	.....	.....	.....	.....	.....	6	22.78	4.82	June	0.20	Jan.	.....	74	.....	.....	.....	....
Waukee	Dallas	1,039	22	48.8	102	July 1	—14	Dec. 27	22	25.71	6.27	June	0.26	Nov.	25.2	94	231	78	56	nw.
Webster City	Hamilton	1,042	20	47.0	102	May 22	—18	Dec. 29	20	28.81	8.51	Sept.	0.16	Jan.	.....	65	184	100	81	se.
Williamsburg	Iowa	765	9	47.8	98	July 1†	—17	Dec. 16	9	28.17	5.92	Sept.	0.29	Mar.	23.8	77	209	94	62	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 on other dates.
‡Also in August.
§Also in March.

CLIMATOLOGICAL DATA FOR THE YEAR 1925—Continued

STATIONS	COUNTIES	Elevation, feet	Temperature, in Degrees Fahrenheit						Precipitation, in Inches						Number of Days				Prevailing direction of wind
			Length of record, years	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	
Southern Division																				
Afton	Union	1,212	31	51.4	103	July 2	—12	Dec. 27	31	27.69	8.46	June	0.30	Jan.	.....	74	.....	.....	.....	nw.
Albia	Monroe	959	27	51.0	104	Sept. 4	—10	Dec. 27	27	31.51	6.22	June	0.27	Jan.	27.8	102	190	66	109	nw.
Atlantic	Cass	1,164	34	50.2	101	July 1	—11	Jan. 17†	34	26.16	6.66	June	0.06	Feb.	28.9	90	.....	.....	.....	sw.
Bonaparte	Van Buren	563	34	50.4	98	July 2†	—10	Dec. 27	34	38.58	9.33	June	0.31	Jan.	15.5	73	207	63	95	sw.
Burlington	Des Moines	544	29	52.2	100	Sept. 4	— 9	Dec. 27	29	45.53	9.43	June	0.70	Mar.	31.8	107	204	62	99	sw.
Centerville	Appanoose	1,013	20	51.1	98	July 2†	—10	Dec. 27	20	37.85	7.87	June	0.17	Jan.	23.0	102	176	82	107	sw.
Chariton (near)	Lucas	1,042	30	50.6	100	July 2†	—10	Dec. 27	30	31.89	9.33	June	0.11	Jan.	16.0	53	169	109	87	sw.
Clarinda	Page	1,009	35	51.6	104	July 1	— 9	Dec. 27	35	31.95	8.05	Aug.	0.44	Nov.	.....	94	201	128	36	s.
Columbus Junction	Louisa	595	24	.....	98	Sept. 4†	.....	.....	24	.....	6.57	Sept.	.....	.....	.....	.....	.....	.....	.....	sw.
Corning (near)	Adams	1,117	33	.....	101	July 1	—13	Jan. 17	33	27.92	8.10	June	0.30	Dec.	14.5	52	.....	.....	.....	sw.
Corydon	Wayne	1,101	32	51.1	99	July 2	—10	Dec. 27	32	34.34	7.46	Sept.	0.12	Jan.	23.9	81	154	146	65	nw.
Creston	Union	1,312	20	.....	100	July 1	.....	.....	20	23.29	6.67	June	T	Feb.	14.5	74	.....	.....	.....	s.
Cumberland (near)	Cass	1,225	.....	.....	.....	.....	.....	.....	25	19.09	4.72	June	T	Feb.	20.0	62	.....	.....	.....	nw.
Earlham (near)	Madison	1,126	23	49.6	100	July 1†	—13	Jan. 27	23	19.85	4.39	June	0.06	Feb.	32.5	63	241	46	78	sw.
Fairfield	Jefferson	780	41	49.8	103	Sept. 4	—11	Dec. 27	41	41.46	9.86	June	0.47	Jan.	33.1	95	187	59	119	nw.
Glenwood	Mills	1,100	27	51.5	104	July 1	—10	Jan. 27†	27	26.20	5.63	June	0.30	Nov.	18.0	77	137	158	70	se.
Indianola	Warren	972	34	50.3	103	July 1	—12	Dec. 27	34	24.23	5.57	June	0.31	Nov.	33.3	81	174	125	66	nw.
Keokuk	Lee	614	54	52.5	100	Sept. 4	— 8	Dec. 27	54	33.57	6.99	Sept.	0.35	Jan.	35.0	97	117	136	112	s.
Keosauqua	Van Buren	644	33	50.0	100	Sept. 5	— 9	Jan. 13†	33	39.51	8.99	June	0.35	Jan.	32.5	87	155	106	104	se.
Knoxville	Marion	920	30	50.4	103	Sept. 4	—11	Dec. 27	30	31.25	7.59	June	0.33	Jan.	28.3	82	177	96	92	nw.
Lacona	Warren	824	26	.....	.....	.....	.....	.....	26	28.94	9.66	June	0.60	Jan.	42.0	109	107	170	88	....
Lamoni	Decatur	1,123	18	50.7	101	July 8	—10	Dec. 27	18	32.48	6.85	Sept.	0.32	Jan.	25.4	91	191	70	104	se.
Lenox	Taylor	1,250	30	50.8	101	July 1	—11	Dec. 27	30	28.89	7.68	June	0.40	Jan.	17.8	84	195	101	69	nw.
Mt. Ayr	Ringgold	1,245	32	50.5	100	July 12	—11	Dec. 27	32	30.65	6.24	Aug.	0.29	Jan.	24.8	89	184	79	102	s.
Mt. Pleasant	Henry	729	44	51.0	101	Sept. 4	—10	Dec. 27	44	37.24	7.37	Sept.	0.52	Jan.	25.5	87	150	110	105	nw.
Oakland	Pottawattamie	1,105	6	50.2	101	July 1	—13	Jan. 17	6	24.36	8.03	June	0.44	Nov.	.....	.....	.....	.....	.....	s.
Oskaloosa	Mahaska	835	49	49.8	99	July 2†	—13	Dec. 27	49	33.79	8.76	June	0.27	Jan.	34.6	90	146	98	121	nw.
Ottumwa	Wapello	649	30	52.0	103	Sept. 4	—11	Dec. 16	30	32.36	6.82	June	0.25	Jan.	17.9	93	203	53	109	nw.
Red Oak (near)	Montgomery	1,030	.....	.....	.....	.....	.....	.....	.....	25.43	6.52	June	0.30	Dec.	.....	55	135	164	66	s.
Sigourney (near)	Keokuk	790	29	49.8	102	July 2†	—13	Dec. 27	29	31.72	6.33	Sept.	0.38	Jan.	41.2	84	191	58	116	nw.
Stockport	Van Buren	747	23	49.9	101	Sept. 4†	—11	Jan. 13	23	41.71	9.92	June	0.73	Jan.	28.5	96	188	73	104	s.
Thurman	Fremont	975	28	51.9	103	July 1	—17	Jan. 17	28	32.58	7.47	Aug.	0.22	Nov.	20.5	66	96	199	70	nw.
Tingley	Ringgold	1,275	.....	50.3	99	July 1	—10	Dec. 27	.....	29.91	7.51	June	0.18	Jan.	21.0	77	189	97	79	nw.
Washington	Washington	769	43	50.4	101	Sept. 5	—14	Dec. 27	43	40.07	9.13	Sept.	0.80	Jan.	36.0	81	220	12	133	ne.
Wescott (near)	Lee	523	3	.....	100	Sept. 4†	—14	Jan. 17	3	37.81	6.73	Sept.	0.37	Jan.	21.2	63	217	73	75	sw.
Winterset	Madison	1,129	34	50.7	102	July 1	—12	Dec. 27	34	21.26	5.28	June	0.24	Jan.	24.0	67	241	56	68	sw.
Omaha, Nebraska	.....	1,103	54	52.1	104	July 1	— 9	Dec. 27	54	21.12	7.42	June	0.12	Nov.	33.9	99	154	118	93	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 on other dates.

MONTHLY STATE DATA FOR 1925

MONTH	Barometric Pressure Inches (Sea Level)					Temperature Degrees, F.				Relative Humidity, Per Cent					Precipitation, Inches					Number 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	30.19	30.83	26	29.69	31	19.4	+ 0.9	55	—24	84	67	74	— 2	29	0.40	—0.68	1.23	0.05	4.2	3	17	7	7	58	+ 8	7.4	—1.3	nw.
February	30.03	30.54	11	29.51	7†	28.4	+ 5.8	66	—16	85	66	73	— 1	31	0.82	—0.38	3.69	T.	2.6	4	11	7	10	48	— 7	8.3	—1.0	nw.
March	30.08	30.65	14	29.39	9	40.1	+ 5.4	82	— 6	76	53	55	— 8	14	0.93	—0.82	2.34	0.10	2.9	4	17	9	5	70	+13	9.7	+0.1	nw.
April	29.98	30.43	5	29.37	18	56.5	+ 7.6	95	21	70	46	48	— 8	14	2.20	—0.79	5.34	0.71	T.	8	14	9	7	62	+ 4	8.6	—1.3	se.
May	29.99	30.39	17	29.43	22	57.8	— 2.4	102	20	70	42	45	—10	15	1.16	—3.45	2.62	0.30	T.	6	19	8	4	75	+14	7.6	—1.1	nw.
June	29.90	30.38	30	29.30	2	70.4	+ 1.1	98	38	75	55	58	— 3	22	6.64	+2.11	13.30	2.99	0	12	15	9	6	70	+ 2	8.8	+1.2	s.
July	29.95	30.24	22	29.68	3	74.1	+ 0.3	105	40	79	52	55	— 1	21	2.66	—1.19	7.93	0.80	0	8	19	10	2	77	+ 3	6.3	—0.4	nwi
August	30.04	30.39	25	29.68	12	72.4	+ 0.7	99	39	81	52	58	— 2	26	3.47	+0.03	8.36	0.31	0	8	18	9	4	75	+ 5	5.8	—0.5	se.
September	29.95	30.38	28	29.45	19	69.0	+ 4.7	105	32	83	59	66	+ 1	23	5.04	+1.39	9.13	1.54	0	9	14	10	6	59	— 4	6.9	—0.3	se.
October	30.08	30.62	28	29.58	25	40.2	—11.7	78	—15	84	64	70	+ 6	31	2.91	+0.49	5.68	0.97	4.9	10	8	8	15	36	—24	7.5	—0.6	nw.
November	30.10	30.60	28	29.49	12	36.1	— 0.5	68	— 6	80	58	65	+ 3	18	0.71	—0.85	2.30	0.10	4.0	4	15	6	9	58	+ 6	7.8	—0.4	nw.
December	30.09	30.96	27	29.13	4	21.0	— 3.1	64	—25	84	73	77	0	37	1.30	+0.16	3.52	0.30	10.6	5	12	8	11	44	— 3	8.4	+0.3	nw.
Means and extremes	30.03	30.96	Dec.27	29.13	Dec.4	48.8	+ 0.8	105	—25	79	57	62	— 3	14	28.24	—3.98	13.30	T.	29.2	81	179	100	86	61	+ 2	7.8	—0.4	nw.
Normals and records	30.02	31.09	Jan.25 1905	28.69	Feb.28 1902	48.0		113	—47	81		66		5	32.22		19.88	0.00	30.7	85	166	102	98	59		8.2		nw.

§ Local mean time. * Normal central time. ¶ 7 a. m. and 7 p. m. observations only. † And other dates.

MEAN MONTHLY AND ANNUAL TEMPERATURES, WITH DEPARTURES FROM THE NORMAL, FOR 1925.

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northern Division																										
Algona	16.0	+0.6	24.0	+5.2	38.0	+6.5	55.9	+8.3	57.8	-1.4	70.0	+1.4	73.6	+0.6	73.2	+2.9	67.6	+4.6	38.9	-11.6	35.2	+0.6	19.7	-1.8	47.5	-1.3
Allison	18.5	+3.2	25.2	+5.9	37.2	+5.1	54.8	+7.5	56.0	-2.7	68.6	+0.5	72.1	-0.7	70.3	-0.2	67.4	+4.3	38.3	-12.4	34.5	0.0	18.2	-3.2	46.8	+0.6
Alta	14.5	-1.5	24.4	+4.7	37.8	+4.8	55.8	+8.7	57.6	-1.0	69.0	+1.2	74.0	+1.6	72.8	+2.5	69.0	+6.3	37.7	-12.4	35.1	+1.2	19.3	-2.1	47.2	-1.1
Alton	13.4	-2.1	24.5	+5.6	38.4	+6.4	55.2	+8.2	56.8	-1.8	69.2	+0.8	74.0	+0.5	72.9	+2.0	67.6	+4.8	37.0	-12.8	34.2	+0.6	19.6	-1.2	46.9	+0.9
Belmond	15.6	+0.9	23.6	+5.3	37.8	+6.5	55.0	+8.3	57.0	-1.6	69.8	+1.3	73.6	0.0	71.4	+1.6	68.1	+4.5	38.4	-12.2	34.0	-0.2	17.6	-3.3	46.8	+0.9
Britt	17.2	+3.0	23.3	+5.7	37.8	+7.3	54.2	+8.0	55.9	-2.1	67.8	+0.4	72.4	+1.2	70.9	+1.0	66.5	+4.1	38.2b	-11.5	34.2	+0.7	18.6	-1.9	46.4	+1.3
Charles City	16.8	+3.1	24.2	+7.1	36.2	+5.5	54.0	+7.6	55.2	-2.6	68.1	+1.6	71.1	-1.2	70.2	+1.1	66.5	+5.5	37.8	-10.8	33.6	+0.6	15.8	-4.6	45.8	+1.1
Cherokee	13.8	...	24.0b	...	37.8a	...	55.0a	...	56.5a	...	68.4a	...	72.2	...	72.2	...	67.5	...	36.9	...	34.3	...	19.0	...	46.5	...
Dubuque	21.6	+2.5	27.7	+5.5	38.4	+4.4	54.8	+6.2	56.0	-4.3	70.2	+0.8	72.5	-1.6	72.2	+0.5	67.8	+3.8	40.9	-11.0	35.7	-1.3	20.0	-4.7	48.2	+0.1
Estherville	14.4	+1.3	21.6	+3.7	34.3	+2.6	52.8	+7.9	55.2	-1.8	68.0	+1.1	71.3	-0.6	71.7	+2.9	67.0	+5.3	36.2	-12.9	33.0	-1.0	18.6	-1.7	45.3	+0.5
Fayette	18.2	+2.8	24.5	+5.5	36.8	+5.5	54.0	+7.1	55.4	-2.6	69.2b	+1.9	71.2	-0.7	69.8	+0.4	66.7	+4.4	38.8	-10.8	34.4	+0.3	16.4	-5.0	46.3	+0.7
Forest City	16.2	+1.9	24.0	+5.4	37.3	+5.5	54.4	+8.1	55.7	-2.4	67.8	0.0	71.4	-0.8	70.7	+0.5	66.6	+3.9	38.2	-10.9	34.4	+0.9	18.6	-2.7	46.3	+0.8
Hampton	15.8	-0.1	24.2	+4.3	37.2	+4.7	54.2	+6.3	56.0b	-3.5	68.1a	+0.1	71.4	-2.9	70.7a	-1.2	67.3	+3.0	38.4	-13.5	34.1	-1.3	18.3	-4.6	46.3	-0.7
Humboldt	15.8	-0.7	24.8	+4.3	38.2	+5.0	55.9	+7.8	57.0	-3.0	70.1	+0.8	73.8	-0.3	72.3	+0.5	69.3	+5.1	38.6	-12.7	35.6	0.0	19.4	-3.2	47.6	+0.3
Independence	20.4	+3.5	27.8	+6.6	39.3	+5.2	57.1	+8.4	56.6	-3.0	69.0	+0.7	73.2	+0.2	71.2	-0.1	69.0	+5.1	40.3	-11.8	35.8	-0.7	17.7	-5.9	48.1	+0.7
Inwood	11.8	-2.2	22.0f	+4.2	38.0	+5.3	55.6	+8.9	57.9	+0.2	68.8	+1.1	73.1	+0.5	73.9c	+3.4	68.6	+5.5	36.6	-13.2	33.6	+0.6	18.0	-1.4	46.5	+1.1
LeMars	14.8	-2.3	25.6	+4.7	39.8	+6.5	55.8	+8.0	57.8	-1.2	69.5	+0.9	73.8	+0.5	73.0	+2.0	68.4	+4.7	37.7	-13.4	35.2	+0.2	20.5	-1.9	47.7	+0.7
Mason City	15.8	+1.6	24.0	+5.9	36.6	+5.7	53.1	+6.6	55.3	-2.7	68.2	+0.6	70.7	-1.7	70.2	+0.6	66.6	+4.9	37.2	-12.4	33.6	+0.1	17.1	-3.8	45.7	+0.5
Nora Springs	18.0	+1.6	25.4	+5.4	37.6	+4.9	54.3	+5.9	56.4	-2.8	67.9	-0.8	70.4	-3.2	70.3	-0.9	68.2	+3.8	38.7	-13.2	35.4	-0.8	18.4	-4.7	46.8	-0.4
Oelwein	19.3	...	26.2	...	38.0	...	55.1	...	56.2	...	68.2	...	72.0	...	71.2	...	67.8	...	39.5	...	34.8	...	16.2	...	47.0	...
Osage	15.8	...	23.4	...	35.8	...	52.6	...	54.7b	...	67.2	...	70.4	...	69.8	...	66.2	...	37.4	...	32.8	...	16.4	...	45.2	...
Pocahontas	15.1	-0.9	23.8	+4.1	37.8	+5.5	55.2	+8.1	56.8	-2.0	69.2	+0.9	74.0	+1.3	72.4	+1.8	68.2	+4.7	38.0	-12.7	35.2	+0.5	19.2	-2.5	47.1	+0.7
Postville	16.8	+1.6	24.0	+5.7	36.0	+5.4	52.8	+6.5	55.1	-2.3	66.0	+0.3	68.4	-1.6	67.5	-0.3	64.4	+3.6	36.8	-12.5	32.8	-1.2	13.8	-7.1	44.5	-0.2
Rock Rapids	12.7	-0.8	22.8	+4.9	38.0	+6.5	55.6	+9.3	57.3	-0.7	68.7	+0.8	72.7	+0.1	73.5	+3.8	67.0	+5.3	37.4	-11.5	33.4	+0.2	18.4	-1.3	46.5	+1.4
Sanborn	12.6	-2.0	23.4	+4.9	37.5	+5.9	54.0	+7.5	56.0	-2.1	67.9	+0.2	73.3	+0.5	73.8	+3.3	67.8	+5.0	36.4	-13.0	33.6	+1.1	18.6	-0.8	46.2	+0.8
Spencer	12.6	-2.1	23.6	+5.1	38.2	+5.8	55.2	+8.2	57.2	-1.3	69.7	+1.2	74.5	+1.1	73.6	+3.0	68.1	+4.6	37.6	-12.6	33.8	+0.2	18.9	-1.8	46.9	+0.9
Storm Lake	16.0	-0.8	26.1	+5.7	39.2	+6.6	56.0	+8.6	57.2	-1.9	69.4	+0.9	74.4	+0.9	72.9	+1.5	68.9	+4.9	39.4	-11.8	37.0	+1.5	20.7	-1.8	48.1	+1.2
Waterloo	21.0	+3.6	27.2	+6.3	39.6	+5.2	56.4	+7.6	57.2	-3.0	70.0	+0.6	73.8	+0.1	72.0	+0.5	69.0	+4.9	40.5	-11.4	35.6	-0.5	18.0	-5.5	48.4	+0.7
West Bend	14.2	-0.8	23.5	+4.3	37.6	+5.6	54.9	+7.5	56.4	-2.9	68.9	+0.5	72.6	-0.6	71.4	+0.8	67.5	+4.1	37.5	-13.1	34.8	+0.7	19.2	-1.9	46.5	+0.3
Central Division																										
Ames	20.5	+2.0	29.0	+6.5	40.5	+5.5	56.6	+7.8	58.6	-1.2	71.2	+1.3	75.1	+1.1	71.5	-0.3	69.6	+5.2	40.5	-11.2	36.6	+0.7	21.0	-2.8	49.2	+1.2
Audubon	18.2	+1.1	27.3	+5.8	39.0	+5.2	56.2	+8.6	57.3	-2.0	69.9	+1.6	73.9	+1.2	71.6	+0.8	67.4	+3.7	39.0	-11.8	35.8	+1.0	20.6	-2.2	48.0	+1.1
Baxter	20.6	+1.2	28.8	+5.9	40.0	+5.0	56.7	+7.7	58.0	-2.5	70.2	+0.6	74.6	+0.4	72.2	0.0	68.4	+3.8	40.4	-12.0	35.6	-1.6	20.7a	-3.7	48.8	+0.4
Belle Plaine	21.2	+2.4	29.3	+6.4	40.4	+5.5	57.5	+8.1	57.6	-2.8	71.2	+2.0	74.4	+0.9	72.9	+1.4	69.8	+5.4	41.0	-10.9	35.8b	-1.2	19.0	-5.2	49.2	+1.0
Boone	20.2	+2.3	28.2	+4.9	39.4	+3.4	56.2	+7.2	57.6	-2.3	70.6	+1.6	73.8	+0.3	71.0	+0.1	69.0	+5.2	39.7	-12.0	36.4	-0.2	20.3	-3.7	48.5	+0.5
Carroll	19.0	+1.6	27.7	+5.8	40.4	+4.4	56.8	+8.3	58.1	-1.8	70.2	+1.8	74.5	+1.3	72.4	+1.3	69.4	+5.7	39.8	-11.8	37.0	+0.9	21.3	-2.5	48.9	+1.3
Cedar Rapids	21.2	+1.3	29.2	+5.4	40.0	+4.3	56.2	+5.8	57.6	-4.0	71.2	-0.2	74.8	-1.1	72.8	-0.5	70.0	+3.8	40.2	-13.4	33.6	-4.2	17.6	-8.3	48.7	-0.9
Clinton	21.6	+1.0	30.4	+5.8	40.9	+5.1	55.9	+6.1	57.3	-3.8	71.2	+0.8	73.4	-1.4	73.0	+0.3	69.4	+4.2	42.3	-10.7	36.2	-1.7	21.0	-5.3	49.4	0.0
Davenport	22.4	+0.6	30.7	+5.8	40.9	+4.8	56.6	+6.7	58.4	-2.9	72.6	+2.1	75.2	-0.1	74.4	+1.3	70.2	+4.6	42.6	-11.1	37.2	-1.8	22.4	-4.7	50.3	+0.4
Davenp't No.2	22.5	...	31.0	...	41.9	...	57.1	...	59.1	...	72.5	...	74.8	...	74.2	...	71.0	...	43.0	...	37.5	...	22.0	...	50.6	...
Denison	18.0	-0.2	26.6	+4.2	40.2	+5.2	57.2	+8.0	58.0	-2.1	70.0	+0.9	74.6	+1.2	72.4	+0.9	68.9	+4.9	39.6	-12.1	37.1	+1.5	21.9	-1.9	48.7	+0.9
Des Moines	22.3	+2.2	30.7	+7.0	41.2	+5.3	58.2	+8.1	59.4	-1.9	72.0	+1.4	76.3	+0.9	73.8	+0.7	70.4	+4.8	41.6	-11.8	37.8	-0.6	23.0	-3.0	50.6	+1.1
Fairport	22.4	...	31.8	...	42.4	...	57.7	...	59.0	...	72.7	...	75.2	...	74.0	...	71.2	...	43.5	...	37.8	...	22.4	...	50.8	...
Fort Dodge	16.8	+0.1	26.0	+3.7	38.6	+4.3	55.7	+8.1	57.0	-2.2	69.2	+0.2	73.1	-0.9	71.2	+0.4	68.6	+4.6	38.6	-12.7	35.7	+0.4	19.8	-2.5	47.5	+0.3
Grinnell	21.7	+1.5	30.0	+6.8	41.2	+5.9	58.0	+8.6	58.7	-2.1	71.5	+1.9	75.9	+1.6	73.6	+1.0	70.4	+5.5	41.7	-11.3	37.4	-0.3	22.6	-2.6	50.2	+1.4
Guthrie Cen.	20.8	+3.1	29.8	+6.2	40.4	+5.2	57.4	+8.0	58.2	-2.3	70.4	+1.4	74.4	+0.8	72.2	+0.5	69.0	+4.4	40.3	-12.2	37.4	+0.4	22.8	-1.7	49.5	+1.2
Iowa City	21.0	+1.0	29.2	+5.0	40.4	+4.8	56.0	+6.1	57.1	-3.2	70.4	+1.3	73.8	0.0	72.5	+0.5	69.1	+4.3	41.1	-11.3	35.5	-2.1	20.2	-5.6	48.9	+0.1
Iowa Falls	18.6	+2.9	26.1	+5.1	38.4	+4.3	55.0	+7.2	55.8	-3.0	68.7	+0.8	71.6	-0.7	70.0	+0.4	67.4	+4.8	38.8	-11.9	35.1	-0.2	17.8	-4.7	46.9	+0.4
Jefferson	18.7	+0.6	27.7	+5.2	39.2	+3.4	56.2	+7.7	57.8	-2.0	70.0	+0.8	73.4	+0.1	71.0	+0.3	67.6	+4.0	38.4	-13.0	35.1	-1.1	19.6	-4.0	47.9	+0.2
Little Sioux	19.4	+0.1	29.0	+5.1	42.4	+6.3	60.1	+9.6	60.0	-1.1	72.8	+2.7	75.4	+1.0	74.0	+1.4	71.0	+5.7	42.0	-10.2	39.2	+2.7	23.6	-0.4	50.7	+1.9
Logan	19.8	-0.5	30.2	+5.2	42.0	+4.8	59.4	+8.6	60.4	-0.9	73.2	+3.4	76.2	+2.0	73.8	+1.1	70.2	+4.5	42.6	-10.6	38.6	+1.3	24.9	-0.5	50.9	+1.5
Marshallt'wn	21.2	+1.2	29.0	+5.4	40.5	+4.9	57.7	+8.1	58.8	-2.1	71.8	+1.5	75.7	+0.4	73.4	+0.6	69.8	+4.4	40.3	-12.7	36.4	-1.0	20.6	-4.5	49.6	+0.5
Monroe	21.6	+0.9	30.4	+5.8	40.4	+4.4	58.2	+8.1	59.7	-1.4	72.7	+2.9	76.2	+1.2	74.0h	+0.6	71.0	+4.9	42.0b	-12.0	37.2	-1.8	22.4	-3.5	50.5	+0.9
Olin	20.4	+2.2	28.8	+6.7	38.8	+4.3	54.6	+5.4	56.5	-3.8	70.2	+0.7	73.0	-1.0	71.7	+0.1	68.6a	+4.9	40.5	-10.5	34.6	-1.7	19.4	-5.5	48.1	+0.2
Onawa	18.0	-0.8	27.7	+4.5	41.2	+5.9	57.6	+7.5	57.8	-3.1	70.6	+0.6	75.3	+1.0	72.1	0.0	68.8	+4.2	40.3	-11.5	37.4	+1.7	23.8	-0.1	49.2	+0.8
Perry	21.6	+2.6	30.6	+7.1	40.4	+5.0	56.5a	+7.4	58.8	-2.0	71.3	+0.8	75.4	+1.2	71.9	0.0	69.0c	+4.5	39.8a	-12.4	35.6	-1.4	20.5	-3.9	49.3	+0.8
Sac City	16.8	-0.4	25.9b	+4.6	38.4b	+5.3	55.2d	+7.4	57.0a	-1.7	70.6c	+1.3	74.9	+2.0	72.3	+0.7	68.6	+4.9	36.4d	-15.1	35.4a	-0.1	19.4c	-3.1	47.6	+0.5
Sioux City	17.5	-0.3	27.0	+6.0	40.6	+7.9	57.7	+9.9	59.1	-1.3	71.3	+1.8	75.6	+1.3	73.6	+1.6	68.8	+5.4	39.4	-11.5	37.1	+1.9	22.0	-1.1	49.1	+1.8
Tipton	19.0	-0.7	29.1	+5.3	39.2	+3.7	55.2	+5.2	57.0	-3.8	69.6	-1.1	72.9	-1.6	71.8	-0.4	69.4	+4.6	42.8	-9.6	36.0	-1.4	20.2	-5.4	48.5	-0.5
Toledo	20.5	+1.2	29.0	+6.0	40.2	+4.8	57.2	+7.6	57.6	-3.3	70.2	+0.3	73.6	-0.6	71.7	-0.4	69.2	+4.1	40.6a	-12.7	35.9	-2.0	19.8	-4.8	48.8	0.0
Waukee	21.0	+2.2	29.8	+6.7	40.2	+5.0	57.3	+7.9	58.7	-2.0	71.2	+1.7	75.6	+1.5	72.8	+0.3	69.6	+4.8	40.6	-12.2	36.6b	-0.5	21.6	-2.7	48.8	+0.3
WebsterCity	17.3	-0.1	25.8	+4.6	38.2	+4.2	55.2	+6.7	56.9	-2.8	68.4	-0.4	72.6	-1.4	70.2	-1.4	67.8	+3.8	38.4	-13.0	34.9	-0.7	18.7	-4.3	47.0	-0.5
Williamsb'rg	19.6	+0.4	28.3	+5.1	38.9	+3.8	55.8	+6.4	56.4	-4.0	69.9	+0.8	72.9	-0.9	70.8	-0.9	68.0	+3.6	39.9	-11.8	34.4	-2.1	18.6	-5.9	47.8	-0.4
Southern Division																										
Afton	22.7	+1.6	31.9	+6.3	42.8	+6.3	59.6	+9.4	60.4	-1.0	72.9a	+3.5	76.7	+2.9	74.3	+1.7	70.6	+5.5	41.8	-11.5	37.9a	-0.6	25.2b	-1.0	51.4	+1.9
Albia	23.4	+2.5	32.1	+6.7	42.8	+6.6	57.8	+7.1	58.6	-2.7	71.4	+1.0	75.8	+1.3	74.4	+1.8	71.1	+5.7	42.4	-11.1	38.4	+0.2	23.8	-2.4	51.0	+1.4
Atlantic	19.6	+0.3	30.8	+6.9	41.6	+5.6	59.4	+9.6	59.5	-1.2	72.2	+2.8	76.0	+1.8	73.0a	+0.3	69.8	+4.8	40.6	-11.6	37.0	-0.5	22.8	-2.9	50.2	+1.3
Bonaparte	22.5	+0.3	32.4	+5.6	42.6	+5.2	57.5	+6.7	57.8	-3.5	71.4	+1.3	74.0	-0.4	72.8	0.0	70.6	+4.7	42.6	-11.1	37.4	-2.2	23.2	-4.6	50.4	+0.2
Burlington	24.3	+0.1	33.8	+5.1	44.1	+5.2	59.4	+7.3	60.4	-2.5	73.8	+2.1	76.7	+0.7	75.0	+0.6	71.6	+4.4	44.2	-10.7	38.5	-2.6	24.8	-4.6	52.2	+0.4
Centerville	23.8	+1.2	33.8	+6.7	43.6	+5.7	57.6	+5.6	58.5	-2.9	71.9	+1.4	75.1	+0.2	73.7	+0.5	70.7	+5.1	42.7	-11.3	37.8	-1.7	24.0	-3.7	51.1	+0.6
Chariton	23.0	+2.0	32.4	+7.3	42.6	+6.6	57.2	+7.7	58.2	-1.9	70.7	+1.9	74.4	+1.1	73.3	+1.4	70.5	+5.7	42.3	-10.5	38.3	-0.4	24.0	-2.4	50.6	+1.6
Clarinda	21.6	-0.8	32.9	+5.1	43.5	+5.4	59.5	+8.4	60.2	-2.7	72.1	+0.7	77.0	+1.5	73.5	-1.1	70.6	+4.3	43.5	-10.5	37.8	-1.9	26.6	-0.3	51.6	+0.7
Corydon	23.0	+1.1	33.0	+6.8	42.7	+6.1	58.0	+7.5	58.6	-2.7	71.6	+1.4	75.6	+1.0	73.6	+0.4	70.6	+4.9	42.7	-11.1	39.0	+0.2	24.9	-1.9	51.1	+1.1
Earlham	19.6	+0.4	30.9	+7.6	39.8	+4.8	56.8	+8.1	58.4	-1.8	72.4	+3.9	74.6	+1.8	71.8	+0.4	69.9	+5.8	40.0	-12.0	38.2	+1.0	23.3	-1.2	49.6	+1.5
Fairfield	21.7	+0.1	31.1	+5.6	41.4	+4.7	57.2	+7.1	57.6	-3.5	71.1	+1.3	74.5	+0.1	73.4	+0.6	70.6	+5.0	42.0	-11.0	36.4	-2.1	21.1	-5.3	49.8	+0.2
Glenwood	21.8	-0.1	31.5	+5.0	43.6	+5.7	59.4	+8.1	60.4	-0.9	73.4	+3.0	77.3	+2.0	74.1	+0.1	70.8	+4.1	42.6	-11.0	38.2	-0.4	25.4	-1.4	51.5	+1.1
Indianola	22.2	+2.5	30.7	+6.1	41.0	+4.7	57.6	+7.1	59.0	-2.5	71.4	+1.4	75.6	+0.8	73.6	+0.5	70.6	+5.0	41.2	-12.0	37.6	-0.7	22.8	-2.8	50.3	+0.9
Keokuk	25.4	+0.5	33.6	+5.3	43.4	+4.5	59.1	+6.8	60.3	-3.5	74.2	+1.7	76.6	-0.3	75.2	+0.2	72.8	+5.3	44.2	-11.2	39.6	-1.5	25.4	-4.2	52.5	+0.3
Keosauqua	22.2	+0.2	32.6	+5.3	41.8	+3.9	57.2	+6.1	58.0	-3.3	71.3	+1.1	74.3	-0.4	73.0	-0.2	69.2	+3.4	41.4	-11.8	36.4	-2.6	22.0	-5.7	50.0	-0.3
Knoxville	22.5	+1.1	30.8	+5.1	41.8	+5.2	58.0	+7.4	59.0	-2.5	71.4	+0.9	75.1	+0.6	73.3	+0.9	70.5	+4.7	41.8	-11.9	37.6	-1.2	23.2	-2.7	50.4	+0.6
Lamoni	23.7	+2.3	32.7	+5.3	42.6	+5.7	58.1	+7.6	58.8	-2.4	72.0	+2.4	75.9	+2.0	73.1	+0.7	68.9	+4.2	41.2	-12.3	36.8	-1.9	24.8	-1.2	50.7	+1.0
Lenox	22.6	+1.0	31.7	+6.2	42.2	+5.6	58.2	+8.0	59.4	-2.5	71.8	+1.0	76.2	+1.1	73.5	+0.2	70.0	+4.3	41.1	-12.1	38.0	-0.2	25.0	-0.6	50.8	+1.0
Mt. Ayr	23.4	+1.2	32.4	+6.0	42.6	+5.6	57.0	+6.8	58.9	-2.4	71.3	+1.3	75.0	+0.7	72.4	-0.6	69.2	+3.8	41.6	-12.0	37.4	-1.4	25.3	-1.2	50.5	+0.6
Mt. Pleasant	23.6	+1.1	32.8	+6.3	42.9	+5.3	58.0	+6.5	59.0	-3.5	71.0	-0.6	75.6	-0.1	73.8	+0.2	71.2	+5.1	42.7	-11.3	37.8	-1.9	23.0	-5.1	51.0	+0.2
Oskaloosa	22.0	+1.3	30.5	+5.8	41.3	+5.5	57.6	+7.5	57.9	-3.3	70.6	+1.0	74.2	+0.5	72.2	+0.1	69.5	+4.6	41.6	-11.2	37.2	-1.3	22.4	-3.6	49.8	+0.6
Ottumwa	23.4	...	33.4	...	44.4a	...	58.8	...	59.4	...	73.1	...	77.6	...	75.8	...	72.2	...	44.5	...	38.3	...	23.6	...	52.0	...
Sigourney	22.3	+1.8	31.4	+6.7	41.3	+5.2	57.0	+7.0	58.0	-2.8	70.8	+1.1	74.6	+0.5	73.2	+0.6	70.0	+4.9	41.4	-11.6	36.4	-1.8	20.6	-4.3	49.8	+0.7
Stockport	21.9	+0.5	32.1	+6.4	42.0	+5.6	56.8	+7.0	57.2	-3.3	70.3	+0.6	74.0	+0.2	73.3	+1.1	70.4	+5.4	42.3	-10.1	36.0	-2.4	22.6	-4.2	49.9	+0.6
Thurman	20.0	-1.8	32.8	+7.0	43.9	+6.6	60.2	+9.2	61.2	-1.3	74.0	+2.2	77.8	+2.2	74.4	+0.7	70.5	+4.8	42.4	-10.4	38.4	+1.0	27.0	+1.7	51.9	+1.8
Tingley	22.5	...	32.6	...	41.8	...	56.0	...	58.3	...	70.9	...	75.1	...	72.4	...	69.8	...	41.8	...	37.7	...	25.1	...	50.3	...
Washington	22.4	+1.4	32.3	+6.8	42.3	+5.8	58.3	+7.6	58.6	-2.9	72.6	+2.4	74.8	+0.3	73.8	+1.4	70.5	+5.3	42.6	-10.7	36.8	-1.9	19.4	-7.2	50.4	+0.7
Winterset	22.2	+1.5	31.6	+6.8	41.4	+5.2	58.2	+7.9	58.8	-2.8	71.3	+0.9	76.3	+1.4	73.4	+0.2	70.4	+4.9	41.4	-12.2	39.0	+0.6	24.5	-1.3	50.7	+1.1
Omaha, Neb.	22.5	+0.6	31.6	+6.1	43.2	+6.2	60.0	+8.8	61.2	-1.2	73.6	+2.0	78.0	+1.3	75.5	+1.1	70.9	+4.1	42.7	-11.6	40.2	+1.7	26.0	-0.4	52.1	+1.5

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 FORM THE NORMAL, FOR 1925

STATIONS	January Precipitation	January Departure	February Precipitation	February Departure	March Precipitation	March Departure	April Precipitation	April Departure	May Precipitation	May Departure	June Precipitation	June Departure	July Precipitation	July Departure	August Precipitation	August Departure	September Precipitation	September Departure	October Precipitation	October Departure	November Precipitation	November Departure	December Precipitation	December Departure	Annual Precipitation	Annual Departure
Northern Division																										
Algona	0.60	-0.22	0.96	-0.13	0.77	-0.65	2.03	-0.59	0.99	-3.29	5.46	+0.95	3.19	+0.13	2.16	-1.39	7.36	+4.04	2.16	-0.11	0.21	-1.15	1.02	+0.07	26.91	-2.34
Allison	0.10	-1.10	0.78	-0.66	0.86	-0.94	0.71	-2.33	1.73	-3.36	5.46	+0.51	2.11	-1.64	3.59	+0.19	5.54	+2.04	2.81	+0.31	0.88	-0.68	1.15	-0.05	25.72	-7.71
Alta	0.41	-0.35	0.50	-0.52	0.51	-1.04	2.73	-0.36	1.08	-3.83	8.20	+3.04	2.04	-2.21	1.55	-2.03	3.58	+0.30	1.42	-0.81	0.93	-0.49	1.58	+0.67	24.53	-7.63
Alton	0.70	-0.06	0.50	-0.46	0.42	-0.68	1.92	-0.57	0.31	-4.51	3.24	-0.72	2.48	-1.06	0.31	-2.79	2.33	-0.63	0.97	-0.79	0.58	-0.79	0.66	-0.14	14.42	-13.20
Belmond	0.57	-0.69	0.52	-0.59	1.06	-0.27	1.40	-1.86	1.00	-4.21	10.10	+5.34	2.08	-1.54	4.31	+1.23	8.07	+3.87	2.07	-0.65	0.79	-0.86	1.69	+0.36	33.66	+0.13
Britt	0.39	-0.29	0.58	-0.23	0.34	-0.91	1.32	-1.25	1.08	-3.82	9.40	+4.87	1.31	-2.67	2.65	-1.12	7.39	+3.93	1.15	-1.25	0.80	-0.65	0.91	+0.11	27.32	-3.28
Charles City	0.10	-0.93	0.57	-0.57	0.96	-0.88	1.15	-1.41	1.38	-2.99	9.39	+4.71	2.99	-0.85	2.70	-0.73	3.59	+0.07	1.98	-0.45	1.15	-0.45	1.69	+0.44	27.65	-4.04
Cherokee	0.57		0.16		0.20		2.34		0.94		5.35		2.47		0.94		3.57		1.57		0.38		1.07		19.56	
Decorah	0.20	-1.04	0.78	-0.27	0.85	-0.95	1.23	-1.32	1.48	-3.18	8.75	+4.23	2.87	-1.18	2.32	-0.98	3.72	-0.39	1.66	-1.16	2.20	+0.36	1.68	+0.40	27.74	-5.48
Dubuque	0.11	-1.45	1.08	-0.42	1.03	-1.16	2.17	-0.51	0.96	-3.06	10.80	+6.45	7.93	+4.06	1.91	-1.42	4.16	+0.29	2.67	+0.09	1.28	-0.55	1.66	+0.15	35.76	+2.47
Estherville	0.45	-0.13	0.95	+0.11	0.75	-0.52	1.30	-1.33	0.57	-3.90	5.10	+0.76	1.50	-2.66	1.65	-1.54	7.50	+4.17	1.03	-0.88	0.53	-0.78	0.58	-0.13	21.91	-6.83
Fayette	0.15	-1.10	0.45	-0.83	0.98	-1.13	1.33	-1.77	2.27	-2.59	7.39	+2.55	3.95	+0.12	3.16	-0.38	4.38	+0.71	2.63	+0.10	1.14	-0.58	3.15	+1.74	30.98	-3.16
Forest City	0.40	-0.48	0.62	-0.32	0.45	-0.98	1.62	-0.86	1.64	-3.00	7.15	+2.60	2.00	-1.57	2.39	-0.98	5.82	+2.49	1.51	-0.92	0.46	-1.09	0.60	-0.28	24.66	-5.39
Hampton	0.11	-1.10	0.38	-0.92	1.01	-0.74	0.95	-2.24	1.24	-3.76	6.01	+1.07	1.87	-1.78	3.28	-0.17	5.50	+2.07	2.77	+0.22	0.73	-0.87	0.97	-0.28	24.82	-8.50
Humboldt	0.48	-0.33	0.36	-0.56	1.03	-0.41	2.10	-0.58	1.10	-3.22	5.17	+0.79	3.16	-0.58	1.12	-2.18	6.39	+3.12	1.77	-0.45	0.98	-0.69	0.91	+0.05	24.57	-5.04
Independence	0.18	-0.99	0.35	-0.70	0.37	-1.35	1.96	-0.55	1.29	-2.98	9.47	+4.85	2.33	-1.81	4.44	+1.23	6.22	+2.27	3.05	+0.50	0.96	-0.48	2.44	+1.13	33.06	+1.12
Inwood	0.68	+0.03	0.33	-0.54	0.23	-0.97	1.56	-0.97	0.60	-3.60	4.70	-0.61	3.47	+0.10	1.13	-1.46	2.49	-0.30	1.62	-0.29	0.72	-0.40	0.42	-0.24	17.95	-9.25
LeMars	0.35	-0.22	0.08	-0.72	0.12	-1.13	2.40	-0.42	0.64	-3.89	5.89	+1.51	2.96	-1.12	0.50	-2.18	2.43	-0.80	1.08	-0.98	0.60	-0.53	0.63	-0.24	17.68	-10.72
Mason City	0.23	-0.74	0.53	-0.42	0.75	-0.62	1.43	-1.12	1.57	-3.12	8.51	+3.37	2.05	-1.47	1.95	-1.79	6.37	+3.56	1.85	-0.35	0.78	-0.70	1.27	+0.39	27.29	-3.01
Nora Springs	0.50	-0.60	0.82	-0.43	0.87	-0.98	1.88	-1.12	1.49	-3.61	11.34	+6.25	3.20	-0.60	2.36	-1.41	6.34	+2.74	3.12	+0.62	1.74	-0.26	1.43	+0.23	35.09	+0.83
Northwood	0.25	-0.89	0.40	-0.98	0.80	-1.05	1.15	-1.59	1.78	-3.31	8.40	+3.54	2.41	-1.42	1.88	-2.08	6.53	+3.00	2.01	-0.63	1.15	-0.82	1.20	-0.03	27.96	-6.26
Osage	0.37		0.70		0.63		1.95		1.31		9.04		2.25		2.03		5.07		2.38		1.41		0.95		28.09	
Pocahontas	0.45	-0.33	0.67	-0.45	1.05	-0.32	2.06	-0.66	1.04	-3.39	5.10	+0.46	1.65	-1.80	2.97	-0.40	3.73	+0.14	1.51	-1.22	0.37	-1.31	1.70	+0.78	22.30	-8.50
Postville	0.15	-1.08	0.92	-0.22	0.89	-1.03	1.44	-1.57	1.47	-3.59	10.49	+5.83	5.57	+1.18	4.37	+0.92	3.99	+0.15	4.51	+1.83	1.51	-0.18	1.75	+0.39	37.06	+2.63
Rock Rapids	0.84	+0.15	0.53	-0.15	0.21	-1.11	1.75	-1.05	0.76	-2.79	4.75	+0.13	1.92	-1.45	1.83	-0.52	3.31	+0.72	1.03	-0.76	0.96	-0.23	0.66	-0.03	18.55	-7.03
Sanborn	0.42	-0.28	0.45	-0.55	0.13	-1.27	2.86	-0.14	0.43	-4.36	3.09	-1.64	0.80	-2.70	0.61	-2.60	1.96	-1.24	1.15	-0.70	0.60	-0.70	1.27	+0.42	13.77	-15.76
Sioux Center	0.80	+0.06	0.42	-0.55	0.42	-0.84	2.08	-0.74	0.30	-4.41	4.65	+0.59	4.24	+0.41	0.49	-2.33	2.20	-0.75	1.31	-0.53	0.81	-0.37	1.07	+0.19	18.79	-9.27
Spencer	1.06	+0.36	1.22	+0.31	0.74	-0.58	1.70	-1.20	0.33	-3.87	3.55	-0.65	1.75	-1.75	2.41	-0.99	7.37	+4.05	1.75	-0.17	0.74	-0.56	1.45	+0.60	24.07	-4.45
Storm Lake	0.40	-0.30	0.23	-0.76	0.17	-1.13	2.39	-0.54	1.20	-3.29	5.34	+0.34	1.12	-2.95	1.59	-1.55	1.54	-1.71	1.05	-0.99	0.62	-0.68	0.92	+0.10	16.57	-13.46
Washta	0.58	-0.03	0.20	-0.74	0.30	-0.71	3.91	+1.29	1.27	-3.35	10.05	+5.47	2.01	-2.22	1.82	-1.12	2.52	-0.87	1.35	-0.76	0.29	-1.03	1.17	+0.34	25.47	-3.73
Waterloo	0.08	-1.04	0.45	-0.73	0.73	-0.94	0.95	-1.58	1.12	-2.97	6.99	+2.86	2.27	-1.71	2.66	-0.65	6.13	+2.09	2.49	+0.05	0.60	-0.89	2.03	+0.83	26.50	-4.68
West Bend	0.54	-0.41	0.12	-0.86	0.34	-1.22	2.02	-0.85	1.20	-2.99	6.37	+2.08	2.05	-1.42	2.16	-1.53	5.04	+1.90	1.84	-0.19	0.61	-0.88	1.01	-0.15	23.30	-6.52
Central Division																										
Ames	0.16	-0.74	0.42	-0.52	0.87	-0.55	0.87	-2.11	0.75	-3.76	4.08	-0.29	5.52	+1.66	6.46	+3.02	5.63	+1.96	2.81	+0.20	0.48	-0.81	0.93	-0.13	28.98	-2.07
Audubon	0.68	-0.15	0.04	-0.99	1.04	-0.41	1.79	-1.33	1.32	-3.06	7.56	+3.54	1.08	-2.59	6.53	+2.90	4.18	+0.42	2.82	+0.51	0.16	-1.17	0.93	-0.06	28.13	-2.39
Baxter	0.08	-0.82	0.25	-0.77	0.97	-0.87	0.89	-2.17	1.18	-4.18	3.87	-0.72	3.58	-0.31	2.25	-0.98	4.98	+1.01	3.15	+0.73	0.15	-1.28	1.10	+0.15	22.45	-10.21
Belle Plaine	0.27	-1.29	0.36	-1.24	0.54	-1.74	2.13	-1.28	0.95	-3.86	4.75	+0.40	1.80	-2.15	2.80	-0.43	5.59	+2.02	3.56	+1.07	0.96	-0.73	2.17	+0.82	25.88	-8.41
Boone	0.17	-0.67	0.05	-0.95	1.13	-0.31	1.70	-1.18	0.87	-4.16	4.83	-0.30	3.32	-0.40	5.24	+1.68	4.13	-0.08	3.16	+0.37	0.55	-0.82	0.81	-0.08	25.96	-6.14
Carroll	0.48	-0.30	0.04	-1.02	0.54	-1.15	1.43	-1.52	0.75	-3.81	5.26	-0.48	3.19	-0.39	2.55	-1.30	4.74	+1.27	3.57	+0.99	0.36	-0.96	1.38	+0.40	24.29	-7.31
Cedar Rapids	0.08	-1.32	0.70	-0.70	0.75	-1.55	2.80	-0.45	1.15	-3.55	7.02	+2.67	3.08	-0.82	3.69	+0.19	4.56	+0.96	4.47	+2.02	0.67	-0.98	0.95	-0.36	29.92	-3.89
Clinton	0.19	-1.63	2.16	+0.20	1.05	-1.77	2.81	-0.23	0.97	-3.63	6.78	+2.39	2.43	-1.46	2.91	-0.72	7.27	+3.78	3.53	+0.97	1.79	-0.10	1.68	-0.10	33.57	-2.30
Davenport	0.40	-1.15	1.94	+0.44	1.13	-1.18	4.48	+1.69	0.98	-3.12	7.56	+3.56	3.34	-0.15	3.75	+0.34	8.16	+4.71	3.01	+0.71	1.10	-0.70	1.64	+0.13	37.49	+5.28
Davenp'tNo.2	0.38		1.75		1.39		4.63		1.06		7.97		3.59		3.46		8.73		3.42		1.23		1.77		39.38	
Denison	0.42	-0.24	0.21	-0.73	0.42	-1.11	2.44	-0.39	1.15	-3.13	6.97	+2.88	2.45	-1.30	2.76	-1.05	5.20	+2.08	2.87	+0.64	0.29	-1.04	0.86	-0.01	26.04	-3.40
Des Moines	0.23	-0.90	0.50	-0.65	0.88	-0.82	1.64	-1.37	0.77	-3.97	6.44	+1.84	2.21	-1.40	4.79	+1.25	3.75	+0.22	3.22	+0.66	0.32	-1.15	1.67	+0.46	26.42	-5.83
Fairport	0.48		2.36		1.20		3.81		0.80		5.40		3.20		2.64		6.89		3.76		1.03		1.95		33.52	
Fort Dodge	0.47	-0.37	0.35	-0.50	0.58	-1.02	2.22	-0.52	0.64	-3.94	7.33	+2.91	6.54	+2.63	2.18	-1.42	5.02	+0.64	2.00	-1.04	0.39	-1.19	1.00	+0.17	28.72	-3.65
Grinnell	0.17	-0.98	0.29	-0.93	0.54	-1.29	1.66	-2.05	1.16	-3.81	4.25	-0.30	7.56	+3.19	2.36	-1.34	7.09	+3.44	3.99	+1.48	0.37	-1.32	1.36	+0.19	30.80	-3.72
Guthrie Cen.	0.62	-0.16	0.27	-0.84	0.92	-0.58	1.33	-1.80	1.41	-3.29	4.72	+0.26	1.10	-3.12	8.36	+4.50	3.07	-0.70	2.62	-0.04	0.85	-0.60	0.97	-0.14	26.24	-6.51
Iowa City	0.29	-1.35	1.04	-0.47	0.99	-1.41	3.07	-0.11	1.00	-3.53	5.61	+1.12	3.63	-0.49	3.14	-0.96	5.59	+1.71	3.90	+1.16	1.00	-1.17	1.66	+0.05	30.92	-5.45
Iowa Falls	0.21	-1.00	0.65	-0.98	1.38	-0.49	1.28	-1.84	1.22	-3.39	6.45	+0.99	2.05	-1.89	3.49	+0.08	6.61	+2.81	3.75	+1.29	0.54	-1.06	1.59	+0.29	29.25	-5.19
Jefferson	0.65	-0.21	0.05	-0.98	0.78	-0.68	1.21	-1.64	0.63	-3.86	7.16	+2.96	0.85	-2.83	2.06	-1.42	2.97	-1.02	3.18	+0.64	0.30	-1.63	1.34	+0.27	21.24	-10.10
Little Sioux	0.59	-0.16	0.36	-0.92	0.94	-0.38	2.28	-0.39	2.16	-2.28	4.54	+0.28	3.39	-0.81	2.78	-0.96	4.67	+1.50	3.80	+1.75	0.33	-1.24	2.26	+1.38	28.10	-2.23
Logan	0.48	-0.52	0.09	-1.10	0.38	-1.28	1.88	-0.91	1.65	-2.59	5.92	+0.74	1.85	-2.56	3.08	-0.61	2.33	-0.83	2.66	+0.28	0.10	-1.30	1.00	-0.13	21.42	-10.81
Marshallt'wn	0.15	-1.02	0.27	-0.94	1.29	-0.57	1.52	-1.32	1.06	-3.43	2.99	-1.58	2.77	-1.24	3.86	+0.86	6.31	+2.20	3.56	+0.80	0.55	-0.97	1.43	+0.16	25.76	-7.05
Monroe	0.17	-0.93	0.47	-0.73	1.64	-0.16	1.47	-1.78	1.90	-3.05	4.78	+0.28	4.11	+0.55	3.20	-0.20	4.59	+0.49	4.59	+2.09	0.60	-0.90	1.35	+0.29	28.87	-4.05
Olin	0.35	-1.08	1.24	-0.41	1.45	-0.81	3.03	+0.22	1.57	-3.12	8.90	+4.72	2.23	-1.62	3.17	-0.43	6.27	+2.60	3.16	+0.67	1.70	+0.08	1.05	-0.30	34.12	+0.52
Onawa	0.50	-0.49	1.10	-0.18	0.30	-1.32	1.79	-0.88	2.37	-2.46	5.10	+0.42	2.18	-1.97	4.88	+0.82	4.48	+0.97	2.15	-0.03	0.21	-1.17	1.93	+0.83	26.99	-5.46
Perry	0.22	-0.80	0.07	-1.25	1.18	-0.56	1.75	-1.24	0.75	-4.09	3.58	-0.84	1.33	-2.71	5.51	+1.44	3.95	+0.18	4.03	+1.31	0.41	-1.11	1.27	+0.25	24.05	-9.42
Sac City	0.45	-0.56	0.35	-0.76	0.48	-0.95	1.69	-1.25	1.62	-2.54	4.81	+0.06	2.52	-1.15	3.38	-0.01	2.50	-0.86	2.02	-0.15	0.53	-0.77	1.40	+0.28	21.75	-8.66
Sioux City	0.66	+0.01	0.17	-0.66	0.33	-0.83	1.99	-0.68	2.19	-1.75	5.36	+1.66	1.43	-2.01	0.71	-2.43	2.30	-0.61	1.54	-0.22	0.38	-0.67	0.95	+0.13	18.01	-8.06
Tipton	0.17	-1.28	2.06	+0.57	1.23	-1.36	3.18	-0.06	1.22	-3.67	5.92	+1.82	4.37	+0.54	3.59	-0.23	5.34	+1.41	3.39	+1.01	1.15	-0.72	1.74	+0.26	33.36	-1.71
Toledo	0.17	-0.93	0.21	-0.92	0.92	-0.88	1.29	-1.77	1.21	-3.48	3.83	-0.69	2.38	-1.16	3.33	+0.40	6.52	+2.55	3.59	+1.08	0.53	-1.07	1.65	+0.53	25.63	-6.34
Waukee	0.44	-0.71	0.50	-0.73	0.77	-0.88	1.46	-2.34	1.02	-3.65	6.27	+2.18	1.46	-3.08	3.78	+0.42	4.17	+0.23	4.17	+2.01	0.26	-1.31	1.41	+0.29	25.71	-7.57
WebsterCity	0.16	-0.90	0.21	-0.93	0.67	-0.83	1.05	-1.74	0.93	-3.34	6.76	+2.51	3.00	-0.34	3.63	+0.81	8.51	+4.57	2.39	-0.09	0.32	-1.29	1.18	+0.20	28.81	-1.37
Williamsb'rg	0.60	-0.80	0.68	-0.62	0.29	-1.82	2.19	-1.16	0.71	-3.89	5.11	+0.61	2.91	-1.04	2.51	-0.99	5.92	+2.27	4.19	+1.74	0.65	-1.05	2.41	+1.16	28.17	-5.59
Southern Division																										
Afton	0.30	-0.56	0.71	-0.46	0.98	-0.91	2.08	-1.42	1.27	-3.50	8.46	+3.53	0.90	-3.07	5.25	+1.87	3.30	-1.08	3.40	+0.82	0.39	-1.04	0.65	-0.54	27.69	-6.36
Albia	0.27	-0.92	1.23	-0.13	1.71	-0.25	2.51	-0.57	2.34	-2.65	6.22	+1.90	1.80	-2.34	3.22	-0.11	5.32	+1.26	4.55	+2.27	0.51	-1.05	1.83	+0.76	31.51	-1.83
Atlantic	0.51	-0.33	0.06	-1.08	0.98	-0.61	1.81	-1.33	0.71	-3.52	6.66	+1.60	2.32	-1.22	5.54	+2.07	3.10	-0.31	3.00	+0.40	0.25	-1.05	1.22	+0.10	26.16	-5.28
Bonaparte	0.31	-1.23	1.18	-0.08	1.31	-0.94	3.25	+0.05	1.35	-3.28	9.33	+4.97	4.32	+0.46	2.92	-0.57	7.78	+3.65	4.94	+3.06	0.96	-0.84	0.93	-0.33	38.58	+4.92
Burlington	1.23	-0.53	3.69	+1.88	0.70	-1.81	4.19	+1.09	1.15	-3.38	9.43	+5.14	4.29	+0.88	3.77	+0.04	8.24	+4.32	5.68	+3.40	1.38	-0.48	1.78	+0.18	45.53	+10.73
Centerville	0.17	-1.08	1.12	-0.38	1.71	-0.22	5.34	+1.84	0.75	-3.84	7.87	+3.47	4.88	+0.95	3.49	+0.01	6.63	+2.53	4.08	+1.87	0.57	-0.87	1.24	+0.14	37.85	+4.42
Chariton	0.11	-0.96	1.35	+0.22	0.74	-1.00	2.22	-1.08	1.08	-3.44	9.33	+4.95	3.16	-1.15	3.68	-0.01	4.61	+0.67	4.17	+1.85	0.38	-1.08	1.06	-0.10	31.89	-1.13
Clarinda	0.50	-0.46	1.95	+0.81	1.35	-0.37	2.13	-0.78	0.70	-4.25	5.25	+0.54	1.92	-2.41	8.05	+4.52	6.43	+2.96	2.31	-0.33	0.44	-1.08	0.92	-0.18	31.95	-1.03
Corning	0.35	-0.57	1.02	-0.16	0.94	-0.96	2.12	-1.01	0.82	-4.22	8.10	+3.97	1.35	-2.78	6.18	+2.40	3.35	-0.57	2.59	-0.17	0.80	-0.67	0.30	-0.94	27.92	-5.68
Corydon	0.12	-1.15	1.33	-0.07	1.54	-0.47	2.75	-0.66	1.58	-3.09	6.22	+1.58	1.34	-2.47	6.49	+3.25	7.46	+3.37	3.52	+0.93	0.50	-1.00	1.49	+0.20	34.34	+0.42
Creston	0.25	-0.80	T	-1.34	1.55	+0.09	1.05	-2.38	1.14	-3.40	6.67	+1.72	0.97	-3.03	5.37	+2.11	2.55	-1.45	2.63	-0.15	0.21	-1.51	0.90	-0.16	23.29	-10.30
Cumberland	0.26	-0.51	T	-1.09	0.38	-1.16	0.98	-1.76	1.03	-3.15	4.72	+0.40	1.97	-1.71	4.45	+1.00	1.90	-1.48	2.51	-0.20	0.13	-0.96	0.76	-0.17	19.09	-10.79
Earlham	0.55	-0.63	0.06	-1.35	0.66	-1.05	2.12	-1.23	0.60	-3.84	4.39	-0.04	0.85	-2.81	3.28	-0.55	2.00	-1.69	3.43	+0.99	0.71	-0.95	1.20	+0.01	19.85	-13.14
Fairfield	0.47	-1.05	2.76	+1.17	1.19	-1.14	4.22	+0.56	0.82	-4.62	9.86	+5.03	3.37	-0.45	4.46	+0.99	5.63	+2.00	4.27	+1.51	0.89	-1.27	3.52	+1.90	41.46	+4.63
Glenwood	0.78	+0.07	1.97	+1.10	0.91	-0.43	2.42	-0.47	0.83	-3.78	5.63	+0.76	1.85	-1.75	5.23	+1.87	3.14	+0.46	2.54	-0.14	0.30	-0.85	0.60	-0.07	26.20	-3.23
Indianola	0.36	-0.79	0.51	-0.70	0.63	-1.00	1.62	-1.54	1.16	-3.29	5.57	+1.13	1.23	-2.56	4.07	+0.23	3.54	-0.19	3.63	+1.27	0.31	-1.26	1.60	+0.28	24.23	-8.42
Keokuk	0.35	-1.34	1.71	+0.17	0.95	-1.34	3.67	+0.57	1.28	-2.91	4.79	-0.50	3.90	+0.05	4.68	+1.75	6.99	+3.11	2.56	+0.17	1.04	-0.88	1.65	+0.06	33.57	-0.07
Keosauqua	0.35	-1.21	1.10	-0.37	1.33	-0.94	4.51	+1.12	1.45	-3.43	8.99	+4.52	3.19	-0.80	3.09	-0.18	8.42	+4.22	4.89	+2.90	0.89	-0.72	1.30	-0.08	39.51	+5.03
Knoxville	0.33	-0.90	0.51	-0.74	1.12	-0.68	2.23	-1.17	1.21	-3.04	7.59	+3.49	4.30	+0.33	3.38	-0.53	3.94	-0.20	4.68	+2.37	0.46	-1.10	1.50	+0.18	31.25	-1.99
Lacona	0.60	-1.05	0.63	-1.05	1.38	-0.92	1.63	-1.44	1.04	-3.79	9.66	+5.09	1.01	-2.77	3.65	+0.20	3.70	-0.66	3.07	-0.36	0.79	-0.89	1.78	+0.16	28.94	-6.76
Lamoni	0.32	-0.74	1.14	-0.10	1.73	-0.14	4.04	+0.62	1.24	-3.71	5.69	+0.84	1.41	-2.53	5.23	+1.45	6.85	+2.84	3.34	-0.41	0.57	-0.87	0.92	-0.26	32.48	-2.19
Lenox	0.40	-0.27	1.13	+0.14	1.38	-0.16	1.17	-2.07	0.93	-3.75	7.68	+3.51	1.23	-2.98	7.00	+3.64	4.01	-0.20	2.79	-0.07	0.52	-0.95	0.65	-0.33	28.89	-3.35
Mt. Ayr	0.29	-0.73	0.96	-0.34	1.36	-0.54	3.17	-0.19	0.97	-4.50	5.44	+0.70	1.74	-2.68	6.24	+2.84	6.09	+2.14	2.69	-0.17	0.59	-0.95	1.11	-0.12	30.65	-4.20
Mt. Pleasant	0.52	-1.02	1.56	+0.12	1.28	-0.92	3.40	+0.43	2.62	-2.00	7.18	+2.15	4.00	+0.34	2.75	-0.52	7.37	+3.84	3.91	+1.51	0.88	-0.93	1.77	+0.40	37.24	+3.40
Oakland	0.80		0.72		0.60		0.48		0.62		8.03		1.57		5.31		2.54		2.72		0.44		0.53		24.36	
Oskaloosa	0.27	-0.76	0.71	-0.44	1.49	-0.42	1.95	-0.90	1.99	-2.26	8.76	+4.78	2.75	-0.97	4.64	+1.55	3.88	+0.48	4.86	+2.61	0.47	-1.13	2.02	+0.85	33.79	+3.39
Ottumwa	0.25	-1.27	1.98	+0.53	1.56	-0.41	3.52	+0.61	0.79	-3.86	6.82	+2.81	2.12	-1.44	2.86	-0.59	5.72	+1.87	4.45	+2.07	0.87	-0.51	1.42	+0.16	32.36	-0.03
Red Oak (nr)	0.33		1.17		1.20		2.00		1.10		6.52		1.40		5.86		2.86		1.99		0.70		0.30		25.43	
Sigourney	0.38	-0.88	0.87	-0.53	1.36	-0.65	2.17	-1.11	1.55	-2.72	4.91	+0.65	4.18	+0.33	2.51	-0.59	6.33	+2.64	3.69	+1.44	0.87	-0.78	2.90	+1.67	31.72	-0.53
Stockport	0.73	-0.65	2.32	+0.93	1.37	-0.80	4.03	+0.91	1.08	-3.58	9.92	+5.43	4.50	-0.09	3.69	+0.59	7.47	+3.38	4.59	+2.53	0.84	-0.80	1.17	-0.10	41.71	+7.75
Thurman	0.72	+0.04	1.30	-0.08	2.34	+0.86	2.27	-0.88	2.12	-2.83	7.08	+1.88	2.71	-1.46	7.47	+3.40	3.34	-0.92	2.49	-0.45	0.22	-1.63	0.52	-0.79	32.58	-2.86
Tingley	0.18		1.05		1.26		2.24		1.22		7.51		1.23		5.94		5.11		2.78		0.32		1.07		29.91	
Washington	0.80	-0.68	2.20	+0.91	1.28	-0.91	4.46	+1.71	1.12	-3.04	6.41	+2.50	3.64	+0.30	3.46	-0.19	9.13	+5.75	4.72	+2.52	1.30	-0.37	1.55	+0.23	40.07	+8.73
Wescott (nr)	0.37		2.60		1.66		3.93		1.44		6.06		4.98		5.07		6.73		3.15		1.05		0.77		37.81	
Winterset	0.24	-0.68	0.35	-0.73	0.68	-1.07	2.26	-1.32	0.93	-3.59	5.28	+0.41	0.86	-3.54	3.53	+0.04	2.16	-1.59	3.34	+0.97	0.43	-1.04	1.20	+0.01	21.26	-12.13
Omaha, Neb.	0.80	+0.15	0.61	-0.15	0.75	-0.64	1.50	-1.51	0.55	-3.95	7.42	+2.37	0.45	-3.88	2.70	-0.92	2.69	-0.34	2.11	-0.24	0.12	-0.94	1.42	+0.51	21.12	-9.54

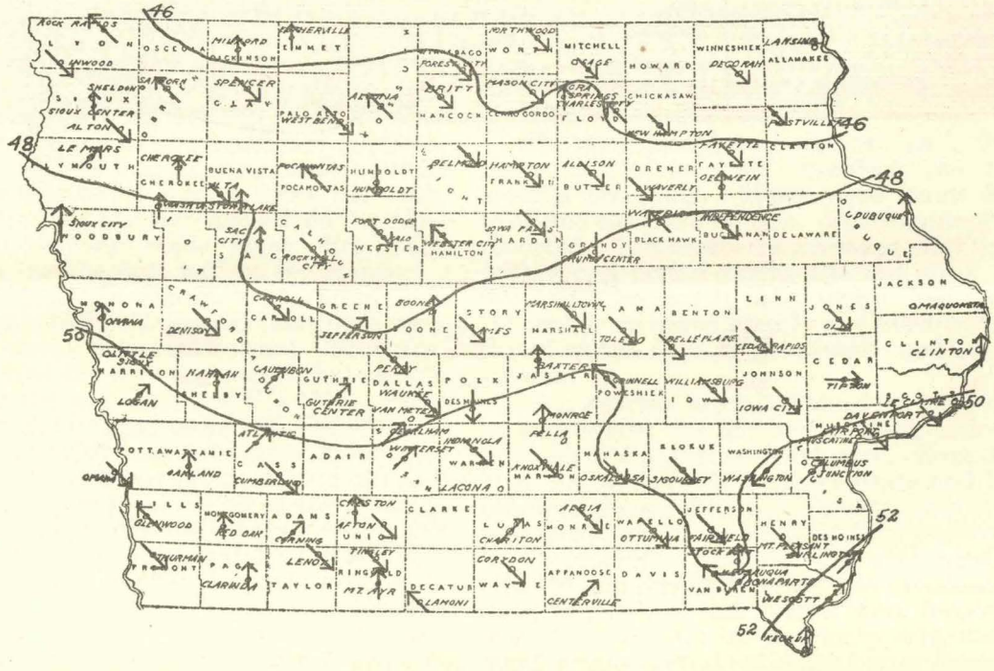
DATES OF KILLING FROSTS, 1925

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

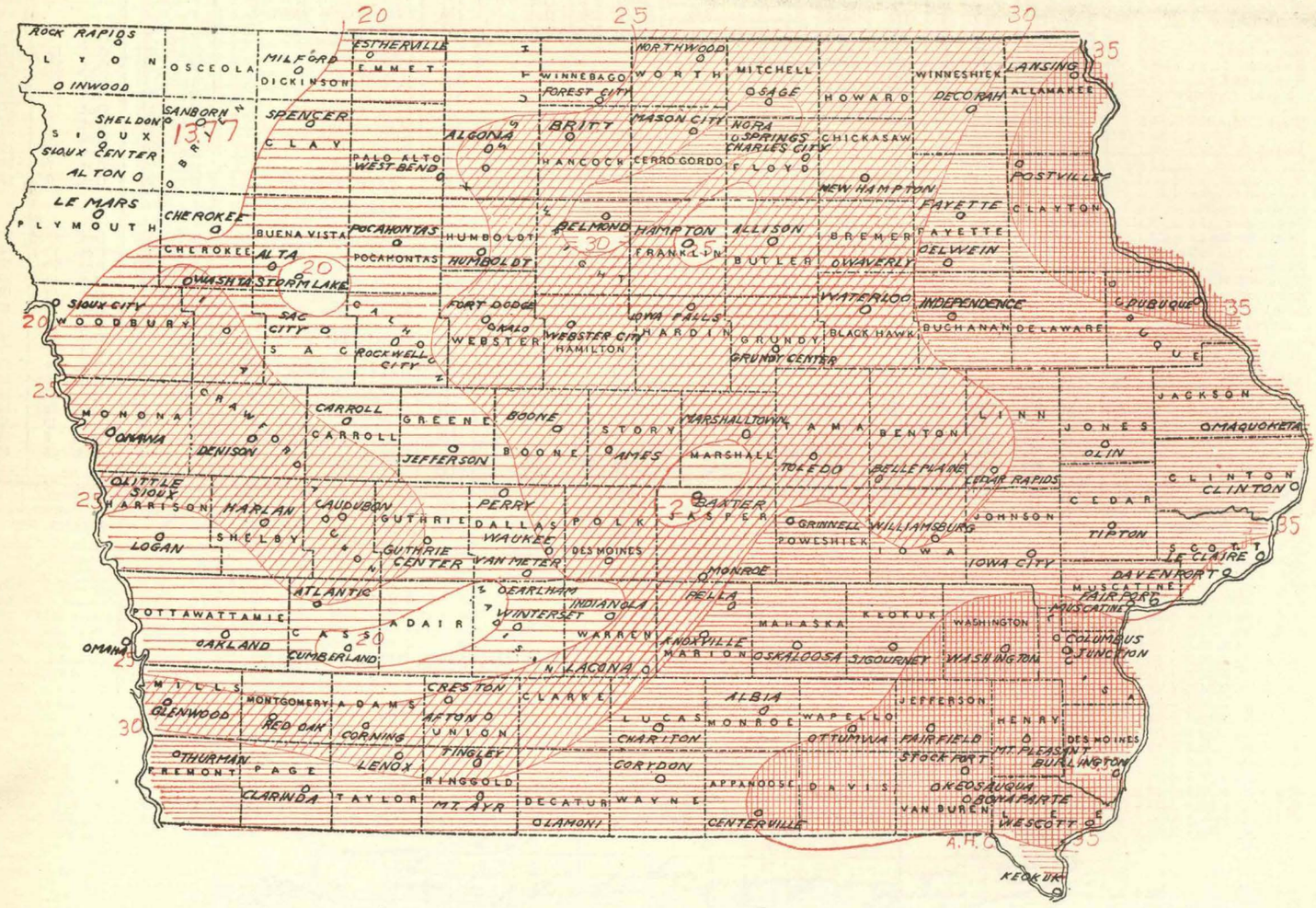
STATIONS	Last in Spring	First in Autumn	Days in Growing Season
Northwest District			
Alta	May 25	Oct. 9	137
Alton	May 25	Oct. 9	137
Cherokee	May 25†	Oct. 6†	134
Estherville	May 25	Oct. 9	137
Inwood	May 25	Oct. 9	137
Le Mars	May 25†	Oct. 7†	135
Milford (near)	May 25	Oct. 9†	137
Pocahontas	May 25†	Oct. 7†	135
Rock Rapids	May 25	Oct. 9	137
Sanborn	May 25†	Oct. 6†	134
Sheldon		Oct. 9	
Sioux Center	May 25†	Oct. 9	137
Spencer	May 25	Oct. 9†	137
Storm Lake	May 25†	Oct. 9†	137
Washta	May 25	Oct. 9	137
West Bend	May 25†	Oct. 7†	135
Rural Average	May 25	Oct. 8	136
West Central District			
Andubon	May 17†	Oct. 6†	142
Carroll	May 25†	Oct. 7†	135
Denison	May 25†	Oct. 7†	135
Guthrie Center	May 25†	Oct. 7†	135
Harlan (near)	May 16	Oct. 6	143
Jefferson	May 25	Oct. 7	135
Little Sioux	May 25†	Oct. 9†	137
Logan	May 25†	Oct. 9†	137
Onawa	May 25	Oct. 9	137
Rockwell City	May 25†	Oct. 7†	135
Sac City	May 25	Oct. 7†	135
Sioux City	May 11	Oct. 9	151
Rural Average	May 23	Oct. 7	137
Southwest District			
Atlantic	May 25†	Oct. 9	137
Clarinda	May 25	Oct. 7†	135
Corning	May 25†	Oct. 7†	135
Cumberland (near)	May 25	Oct. 9	137
Glenwood	May 25†	Oct. 9	137
Lenox	May 25	Oct. 7†	135
Oakland	May 25†	Oct. 9†	137
Red Oak	May 25	Oct. 7	135
Thurman	May 25†	Oct. 9†	137
Omaha, Neb.	Mar. 21	Oct. 9	202
Rural Average	May 25	Oct. 8	136
North Central District			
Algona	May 25†	Oct. 9†	137
Allison	May 25	Oct. 7	135
Belmond	May 25	Oct. 10	138
Britt	May 25†	Oct. 7	135
Charles City	May 17†	Oct. 10	146
Forest City	May 17	Oct. 7†	143
Hampton	May 25†	Oct. 7†	135
Humboldt	May 25†	Oct. 7	135
Mason City	May 25	Oct. 10	138
Nora Springs	May 25	Oct. 7	135
Northwood	May 25†	Oct. 9	137
Osage	May 25†	Oct. 7†	135
Rural Average	May 24	Oct. 8	137
Central District			
Ames	May 11†	Oct. 7†	149
Baxter	May 25	Oct. 7†	135
Boone	May 25	Oct. 10	138
Des Moines	May 7	Oct. 9	155
Fort Dodge	May 25†	Oct. 6†	134
Grinnell	May 6†	Oct. 9†	156
Grundy Center	May 25†	Oct. 7†	135
Iowa Falls	May 11	Oct. 10	152
Marshalltown	May 8†	Oct. 10	155
Monroe	May 25	Oct. 10	138
Perry	May 25	Oct. 7	135
Toledo	May 25†	Oct. 7†	135
Waukee	May 25	Oct. 7	135
Webster City	May 25†	Oct. 7†	135
Rural Average	May 21	Oct. 8	140
South Central District			
Afton	May 25†	Oct. 7†	135
Albia	May 25†	Oct. 10	138
Centerville	May 6	Oct. 9	156
Chariton (near)	May 25†	Oct. 7	135
Corydon	May 25	Oct. 9	137
Creston	May 25†	Oct. 7†	135
Earlham (near)	May 11†	Oct. 7†	149
Indianola	May 25†	Oct. 9†	137
Knoxville	May 25†	Oct. 7†	135
Lamoni	May 25†	Oct. 9	137
Mount Ayr	May 25†	Oct. 9†	137
Tingley	May 25	Oct. 9	137
Winterset	May 25	Oct. 7	135
Rural Average	May 22	Oct. 8	139
Northeast District			
Decorah	May 26	Oct. 5†	132
Dubuque	April 5	Oct. 10	188
Fayette	May 25	Oct. 10	138
Independence	May 25†	Oct. 7†	135
New Hampton	May 25†	Oct. 7†	135
Oelwein	May 17†	Oct. 7	143
Postville	May 25†	Oct. 7†	135
Waterloo	May 25†	Oct. 7†	135
Waverly	May 25	Oct. 7†	135
Rural Average	May 24	Oct. 7	136
East Central District			
Belle Plaine	May 25	Oct. 7	135
Cedar Rapids	May 26†	Oct. 10	137
Clinton	May 25†	Oct. 10	138
Davenport	April 6†	Oct. 10	187
Fairport	May 25	Oct. 10	138
Iowa City	May 25†	Oct. 10	138
Maquoketa	May 26†	Oct. 7†	134
Olin	May 26†	Oct. 7†	134
Tipton	May 26	Oct. 10†	137
Williamsburg	May 25	Oct. 7†	135
Rural Average	May 25	Oct. 9	137
Southeast District			
Bonaparte	May 25†	Oct. 10†	138
Burlington	May 25	Oct. 10	138
Columbus Junction	May 25†	Oct. 10	138
Fairfield	May 25	Oct. 10	138
Keokuk	April 5	Oct. 10	188
Keosauqua	May 25	Oct. 10	138
Mt. Pleasant	May 25	Oct. 10	138
Oskaloosa	May 25	Oct. 10	138
Ottumwa	May 25†	Oct. 10	138
Sigourney (near)	May 25	Oct. 10	138
Stockport	May 25	Oct. 10†	138
Washington	May 7†	Oct. 10†	156
Wescott (near)	May 25	Oct. 10†	138
Rural Average	May 23	Oct. 10	139
State average 1925	May 24	Oct. 8	137
State normal	May 2	Oct. 5	156

†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, 1925



TOTAL PRECIPITATION, YEAR, 1925



SCALE OF SHADES IN INCHES

Less than 20	20-25	25-30	30-35	More than 35