

## CLIMATOLOGICAL DATA

12

## KANSAS SECTION

S. D. FLORA

VOL. XLIX TOPEKA, KANS. ANNUAL, 1935 No. 13

## GENERAL SUMMARY

Outstanding features of this year were an unusual prevalence of dust storms during the early spring, disastrous floods in May and June, a severe drought and hot spell in July and August, and fall and early winter months that were wet and inclined to excessive cloudiness, except in the more western counties.

The average precipitation for the State was 28.47 inches, which is 1.64 inches above normal, 8.45 inches greater than the corresponding figure for 1934, and the greatest amount for any year since 1928. Almost half the total fall of the year, however, occurred in May and June. The first four months of the year were each deficient in moisture and July was the third driest month of the name on the State-wide record.

As a rule, the year's precipitation was above normal over the eastern half of the State and below over the western half, being generally the most deficient in the southwestern counties, though, even in that section, it was greater than during the year previous. The average for the eastern third was 41.59 inches; the middle third, 27.67 inches; and the western third, 15.29 inches. The greatest total for the year was 53.67 inches at Parsons and the least, 8.83 inches at Tribune, Greeley County. The average snowfall of the year was the least on record.

The average temperature, 55.9°, was 1.1° above normal and 2.6° lower than that of the year preceding. The highest recorded was 113° on July 10 at Phillipsburg which has been exceeded in only 9 of the 48 years preceding. The lowest was 19° below zero at St. Francis on January 21.

The first four months were fairly favorable for wheat in the eastern half of the State but generally unfavorable over the western half. Wet weather in May and June proved unfavorable for harvest.

Corn had a late and unsatisfactory start on account of cool weather in April and May and excessively wet soil in June. The hot, dry weather of July and the first 19 days of August proved disastrous to the crop in most sections. Pastures and forage crops also suffered greatly during this period.

Rains that began late in August and continued through September, except in some of the western counties, proved favorable for sowing wheat and gave the crop a good start, except in the western third where soil moisture was still deficient at the close of the year.

In the eastern third, especially the southeastern counties, the fall months were too wet for gathering forage crops and pasturing wheat.

Sixteen tornadoes occurred in the State during the year, which is the same number as in the previous year and two less than the 22-year average. Property damage totalled \$357,450. No lives were lost. Only two of these resulted in losses as great as \$100,000. The most destructive one struck Montgomery County on February 24 and crossed a part of Independence with a total property loss of \$150,000. The other occurred in Sumner County on June 2, with a loss of \$100,000, mostly to rural districts.

Eleven violent wind storms, not tornadoes, were reported, with a total property loss of \$105,400, but no loss of life. The most destructive of these swept over Cherokee County on August 12, causing damage estimated at \$50,000, which was mostly

to power and telephone lines and to buildings in Columbus.

Twenty six hailstorms or occurrences of heavy hail were reported. Loss from this cause was estimated at \$496,500. The Continued on page 101

## COMPARATIVE ANNUAL DATA

Year	Temperature			Precipitation				Sky		
	State Mean	Highest	Lowest	Eastern Division		Western Division		Days with 0.1 inch or more	Snowfall (unmelted)	Clear days
				Middle Division	State	Days with 0.1 inch or more	Snowfall (unmelted)			
1887	54.4	111	-32	27.99	22.06	20.06	23.37	60	13.9	177
1888	53.6	110	-32	31.64	17.96	20.70	23.43	60	9.6	114
1889	53.6	108	-17	37.49	30.45	20.49	29.44	56	53	15.8
1890	54.8	113	-22	31.17	19.12	13.19	21.16	53	15.2	129
1891	53.0	108	-10	33.75	33.32	26.35	31.14	69	20.5	148
1892	52.6	111	-34	40.05	28.34	18.70	29.02	68	17.2	157
1893	53.7	114	-18	30.23	18.58	11.93	20.25	53	7.6	184
1894	54.7	114	-26	28.76	21.25	12.19	20.72	52	16.9	202
1895	53.2	110	-25	37.99	24.88	21.39	28.08	61	16.2	174
1896	55.8	114	-18	35.77	30.52	19.53	25.72	63	6.9	164
1897	55.1	113	-16	27.56	22.91	24.45	65	25.1	178	114
1898	54.2	110	-23	42.21	30.56	22.64	31.79	67	21.4	189
1899	54.1	110	-34	32.16	28.34	18.26	26.26	67	19.5	173
1900	55.8	110	-15	39.70	27.39	18.51	27.96	68	17.9	182
1901	55.4	112	-21	25.31	21.33	17.34	21.35	61	22.9	194
1902	54.1	112	-22	46.29	34.59	22.40	34.42	74	19.8	171
1903	53.4	110	-22	41.88	32.41	19.78	31.35	77	21.3	178
1904	54.2	104	-19	41.72	30.11	21.22	31.01	75	8.6	191
1905	53.5	112	-40	39.85	29.53	22.94	30.77	75	21.0	187
1906	54.4	105	-15	34.00	28.55	23.16	28.58	77	18.0	172
1907	54.9	109	-12	35.67	25.88	17.83	26.46	74	13.4	181
1908	55.8	110	-11	45.82	31.88	19.22	32.30	74	6.8	186
1909	54.4	114	-20	40.36	39.90	22.09	31.15	76	21.0	178
1910	55.7	111	-26	29.28	17.91	11.81	19.67	57	8.4	193
1911	56.1	116	-28	31.88	24.59	16.82	24.53	68	18.3	177
1912	52.9	111	-33	38.16	25.57	21.33	26.69	65	33.4	192
1913	55.5	116	-30	29.70	21.99	17.37	23.02	69	23.1	184
1914	55.8	111	-20	31.93	28.83	17.47	23.08	66	14.8	183
1915	53.7	105	-22	50.70	39.70	29.83	40.77	95	27.4	160
1916	54.1	109	-22	35.44	23.24	12.85	28.84	67	19.1	203
1917	53.2	112	-17	25.16	18.99	14.66	19.60	61	8.7	204
1918	55.2	115	-32	32.14	29.00	21.73	27.66	75	25.5	193
1919	53.9	111	-25	30.45	26.19	20.33	25.65	69	19.2	187
1920	54.5	110	-21	33.87	26.90	20.20	26.65	70	11.5	179
1921	57.6	111	-7	33.62	21.48	17.49	24.19	63	10.1	188
1922	55.8	113	-14	39.17	30.62	17.24	29.01	68	12.8	206
1923	54.9	113	-13	35.49	31.35	28.83	31.84	82	9.3	179
1924	53.0	111	-27	33.99	22.36	16.31	24.23	69	37.6	97
1925	55.6	112	-19	32.62	24.79	17.84	26.08	69	11.3	199
1926	55.2	112	-14	35.25	24.91	14.19	24.80	72	21.0	189
1927	55.0	106	-19	45.76	32.18	19.26	32.40	75	14.4	186
1928	55.2	105	-22	40.33	33.06	26.84	33.40	76	12.9	204
1929	53.2	110	-20	36.33	28.68	18.80	27.96	74	19.4	173
1930	55.5	114	-31	31.56	26.19	22.91	26.37	66	12.3	208
1931	57.4	113	-4	36.85	25.14	15.66	25.90	70	16.6	197
1932	54.7	110	-26	30.05	24.25	17.00	23.76	69	20.9	192
1933	57.8	116	-28	29.24	19.39	17.90	22.18	52	4.3	214
1934	58.5	119	-20	28.69	23.28	11.14	20.02	60	16.5	214
1935	55.9	113	-19	41.59	27.67	15.29	28.47	73	4.5	177
Period	54.8	119	-40	35.09	26.26	19.06	26.83	68	16.2	184
Year	55.9	+1.1	113	10	-19	21	28.47	+1.64	4.5	73
									177	90
									177	98

## CLIMATOLOGICAL SUMMARY, 1935

Month	Temperature, in degrees Fahr.			Precipitation, in inches			Sky			Number of partly cloudy days	Number of cloudy days	Prevailing direction of wind
	Mean	Departure from the normal	Highest	Date	Lowest	Date	Departure from the normal	Total snowfall (unmelted)	Days with 0.1 inch or more			
January	35.0	+5.1	74	26	-19	21	0.61	-0.05	0.2	2	16	s.
February	38.8	+5.6	84	21	-10	26	0.79	-0.22	0.9	4	14	n.
March	51.0	+7.8	90	15	0	7	0.82	-0.62	1.1	4	14	s.
April	52.3	-2.4	90	14	20	7	1.13	-1.46	T	5	11	s.
May	59.0	-4.7	98	11	27	5	7.78	+4.01	0.0	15	5	10
June	71.0	-2.7	104	9	38	7	5.08	+1.08	0.0	12	13	s.
July	84.3	+5.5	113	10	53	14	0.68	-2.56	0.0	2	25	s.
August	80.4	+2.9	112	11	43	30	2.95	-0.22	0.0	18	9	s.
September	69.1	-0.4	102	13	31	27	3.17	+0.36	0.1	5	21	4
October	56.1	-0.9	91	12	17	24	2.88	+0.91	T	7	14	s.
November	49.2	-3.1	75	8	3	11	2.31	+1.00	1.1	7	11	n.
December	33.8	+1.0	65	22	-3	27	0.27	-0.58	1.1	3	15	s.
Year	55.9	+1.1	113	10	-19	21	28.47	+1.64	4.5	73	177	s.

† On other dates also.

WBO, Topeka, Kans. 1-27-36-1450

Stations		Counties	Elevation in ft.	Climatological Data for 1935												Observers				
				Temperature, in degrees Fahr.						Precipitation, in inches										
				Length of record yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record yrs.	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snow-fall (in.)	No. days with 0.1 in. or more per m.	Cloudy days	Pervailing direction of wind	
<i>Eastern Division</i>																				
Atchison	Atchison	973	45	54.3	105	Aug. 9	+ 9	Jan. 21	45	33.17	9.58	May	0.36	Dec. July	1.6	111	145	90	130	A. E. Meyers
Bazaar [near]	Chase	1,280	31	101	July 30	+ 7	31	33.60	9.91	31	33.29	17.29	May	0.15	0.5	.....	.....	.....	.....	Mrs. T. H. McCabe
Blue Rapids	Marshall	1,195	42	56.7	106	Aug. 11	- 6	29	31.36	7.05	June	0.03	Jan. July	4.7	79	149	89	127	Chas. S. Saville	
Burlington	Coffey	1,010	42	56.7	106	Aug. 11	- 6	42	42.84	9.54	May	0.32	July	0.8	77	149	89	127	Mabel M. Hunt	
Carbondale	Osage	1,078	26	53.5	106	" 9	" 9	14	42.04	11.82	May	0.08	July	1.7	.....	.....	.....	.....	W. A. Lowes, Jr.	
Centralia	Nemaha	1,256	26	53.5	106	" 9	" 9	26	31.84	7.41	June	0.17	Jan. July	4.0	96	158	93	119	A. E. Meyers	
Chanute	Neosho	940	31	57.8	106	" 11	- 4	31	53.29	17.29	May	0.39	.....	0.2	85	158	93	119	Fletcher Maclary	
Coffeyville	Montgomery	744	29	54.8	105	" 11	- 9	7	47.60	9.23	June	0.90	.....	.....	.....	.....	.....	Andrew Smith		
Columbus	Cherokee	898	45	57.3	103	" 9	- 3	45	50.49	13.25	"	0.23	.....	2.2	117	123	86	156	O. E. Skinner	
Council Grove	Morris	1,234	26	55.6	107	" 9	- 7	25	38.88	8.20	"	0.11	.....	2.3	80	115	150	100	A. H. Prater	
Elmdale	Chase	1,195	26	53.5	106	" 9	" 9	12	36.53	10.98	May	0.08	.....	.....	.....	.....	.....	Mrs. R. S. Patterson		
Emmett	Pottawatomie	1,024	54	55.5	107	" 11	- 8	23	30.09	9.21	"	0.22	.....	2.3	106	161	56	148	D. F. Miller	
Emporia	Lyon	1,188	54	55.5	107	" 11	- 8	55	43.84	9.30	"	0.25	Dec. 1.0	104	166	52	147	Wm. G. Thomas		
Eskridge	Wabaunsee	1,412	29	54.8	105	" 11	- 9	29	38.56	12.89	"	0.00	Ju. 2.1	79	179	104 <sup>a</sup>	79 <sup>a</sup>	J. O. Warren		
Eureka [near]	Greenwood	1,079	39	56.7	107	" 11	- 6	39	37.77	11.37	"	0.23	D. C. 1.2	90	154	103	103	Ed. Knudsen		
Fort Scott	Bourbon	857	60	57.4	105	" 9	- 4	60	52.87	11.28	"	0.26	July 10.1	116	.....	.....	.....	E. A. Shaver		
Fredonia	Wilson	864	32	57.4	110	" 11	- 5	32	45.07	12.36	June	0.17	.....	4.0	107	161	56	148	B. W. Holmes	
Garnett	Anderson	1,046	24	54.1	105	" 11	- 5	24	48.12	9.10	May	0.39	.....	1.2	146	105	114	.....	W. C. Blood	
Holton	Jackson	1,043	24	54.4	105	" 11	- 5	24	33.53	9.00	"	0.05	Mar. 0.9	100	.....	.....	.....	W. E. Osterhold		
Horton [near]	Brown	1,188	46	54.4	105	" 9	- 10	Jan. 21	46	32.37	7.33	June	0.10	.....	.....	.....	.....	H. L. Lingo		
Howard	Elk	1,112	24	54.4	105	" 9	- 10	24	46.12	10.63	May	0.03	July	4.0	94	151	114	100	J. R. Kiunsley	
Independence	Montgomery	800	63	58.4	109	" 8	- 3	64	46.04	9.45	June	0.03	.....	2.0	112	149	54	171	F. L. Kenoyer	
Iola 1	Allen	963	31	57.3	102	" 9	- 5	31	49.51	12.08	May	0.32	Dec. 5.2	115	98	128	139	U. S. Weather Bureau		
Iola 2	Allen	957	27	55.7	107	" 9	- 5	4	47.93	11.63	"	0.33	.....	92	.....	.....	.....	Roy D. Crawford		
Junction City	Geary	1,078	26	53.5	106	" 9	- 5	11	35.03	10.29	"	0.22	Jan. 4.5	90	152	124	89	L. W. Sargent		
Kansas City (Sub.)	Johnson	890	26	53.5	106	" 9	- 5	26	40.98	9.60	"	0.17	Dec. 0.20	100	86	179 <sup>a</sup>	64 <sup>a</sup>	R. E. Lunt		
La Cygne	Linn	827	26	53.5	106	" 9	- 7	7	39.30	7.48	May	0.20	July	0.5	86	179 <sup>a</sup>	64 <sup>a</sup>	Mrs. Ida H. Dyer		
Lawrence	Douglas	1,018	67	55.8	105	Aug. 9	- 7	67	42.93	11.00	"	0.30	Dec. 1.7	112	127	103	135	Prof. C. J. Posey		
Leavenworth	Leavenworth	913	81	55.8	102	July 28	- 6	81	47.07	12.47	"	0.21	.....	2.0	104	195 <sup>a</sup>	30 <sup>a</sup>	M. R. Rhodes		
Lebo	Coffey	1,188	49	55.6	106	Aug. 7	- 7	49	40.98	9.60	"	0.07	July	1.3	95	155 <sup>a</sup>	105 <sup>a</sup>	L. J. Bowman		
LeRoy	Coffey	990	26	53.5	106	" 7	- 7	26	43.98	10.14	"	0.28	Dec. 1.9	95	155 <sup>a</sup>	104 <sup>a</sup>	F. W. Schmitt			
Lyndon [near]	Osage	1,006	26	53.5	106	" 7	- 7	12	43.11	14.09	"	0.02	July	2.0	83	154	132	H. E. Olson		
McFarland	Wabaunsee	1,025	26	53.5	106	" 7	- 8	15	37.98	11.65	Aug. 0.04	.....	2.0	82	154	132	C. H. Fortnash			
Manhattan	Riley	1,100	77	56.2	110	" 7	- 7	77	37.71	8.79	"	0.04	.....	5.5	102	187	72	106	G. E. Raburn	
Neosho Rapids	Lyon	1,092	27	54.0	112	" 9	- 9	30	41.09	8.08	May	0.12	.....	0.7	81	155 <sup>a</sup>	104 <sup>a</sup>	Jas. F. Irwin		
Okeeto	Marshall	1,291	27	54.0	112	" 9	- 9	27	35.88	10.04	May	0.22	Dec. 14.5	136	125	99	141	s.		
Olathe	Johnson	1,032	40	55.1	101	Aug. 9	- 7	40	49.29	16.22	"	0.38	.....	2.7	101	154	79	132	J. A. Church	
Osage City	Osage	1,081	37	55.7	107	July 31	- 8	37	44.92	13.33	June	0.13	July	1.5	113	130	131	104	E. T. Randall	
Oswego	Labette	899	35	53.5	106	" 9	- 8	46	47.74	12.12	June	0.12	.....	2.5	96	155 <sup>a</sup>	104 <sup>a</sup>	M. E. Nichols		
Ottawa	Franklin	891	41	55.2	102	Aug. 9	- 7	41	39.76	9.10	May	0.56	Dec. 1.2	109	220	81	64	W. J. Sheldon		
Overbrook	Osage	1,100	26	53.5	106	" 9	- 7	8	39.59	12.25	"	0.02	July	3.3	116	136	96	133	F. C. Butel	
Overbrook (near)	Douglas	1,100	26	53.5	106	" 9	- 7	14	49.65	12.55	"	0.34	.....	2.7	99	155 <sup>a</sup>	104 <sup>a</sup>	Walter Schwarz		
Paola	Miami	865	26	53.5	106	" 9	- 7	29	44.08	11.56	"	0.23	.....	2.4	103	154	103	104	C. W. Ricketts	
Parsons	Labette	898	11	58.6	108	" 11	- 3	11	53.67	17.08	June	0.01	.....	1.0	87	136	125	104	Jas. M. Curigan	
Pittsburg	Crawford	934	26	53.5	106	" 9	- 7	22	43.89	13.77	"	0.26	.....	0.6	94	194 <sup>a</sup>	137 <sup>a</sup>	W. F. Connor		
Pleasanton	Linn	862	26	53.5	106	" 9	- 7	33	42.34	8.44	May	0.37	Dec. 2.2	88	163	93	109	Samuel Tucker		
Pomona (near)	Franklin	1,000	14	53.5	106	" 9	- 7	14	37.23	11.81	May	0.05	July	1.0	136	166 <sup>b</sup>	52 <sup>b</sup>	Mrs. Dora A. Scovill		
Quenemo	Osage	941	26	53.5	106	" 9	- 7	23	39.52	10.70	"	0.20	.....	64	.....	.....	.....	W. T. Windett		
Randolph	Riley	1,052	26	53.5	106	" 9	- 7	15	36.14	7.29	Sept. 0.12	.....	Jan. 4.7	89	198	58	109	F. J. Newman		
Reading	Lyon	1,079	26	53.5	106	" 9	- 7	16	41.07	11.04	May	0.21	Dec. T.	84	.....	.....	.....	E. M. Cross		
Sedan	Chautauqua	834	50	58.2	108	Aug. 7	- 3	50	44.67	9.30	June	0.44	July	1.2	101	220	81	64	A. B. Read	
Tonganoxie (near)	Leavenworth	829	26	53.5	106	" 9	- 7	5	46.08	11.10	May	0.28	Dec. 1.0	85	175	81	109	D. F. Smith		
Topeka 1	Shawnee	926	49	55.7	108	July 28	- 6	49	37.31	11.08	"	0.03	July	2.5	116	132	117	116	U. S. Weather Bureau	
Topeka 2	Shawnee	903	1	55.1	108	July 28	- 6	1	36.32	10.07	"	0.18	.....	2.5	110	132	117	116	A. D. Robb	
Toronto	Woodson	1,040	38	57.3	108	Aug. 11	- 5	35	48.11	14.08	"	0.00	.....	1.2	82	193	75	97	M. A. Webb	
Valley Falls	Jefferson	913	30	55.5	108	" 9	- 9	36	42.10	12.90	"	0.33	Dec. T.	78	.....	.....	.....	J. M. Piazek		
Vinland	Douglas	880	26	53.5	106	" 9	- 7	26	49.61	11.91	"	0.54	.....	.....	.....	.....	.....	A. Schick		
Wagstaff	Miami	975	26	53.5	106	" 9	- 7	1	45.93	13.57	"	0.45	.....	.....	.....	.....	.....	S. A. Smith		
Walnut	Crawford	940	42	56.2	109	" 9	- 7	42	37.71	8.02	"	0.30	July	0.5	.....	.....	.....	H. L. Holland		
Wamego	Pottawatomie	992	42	56.2	109	" 9	- 7	43	33.86	9.99	"	0.22	Jan. 0.00	1.0	89	154	79	132	B. A. Larsen	
Weatherman	Pottawatomie	1,450	26	53.5	106	" 9	- 7	18	36.04	9.18	"	0.27	.....	3.4	115	115	96	154	Walter Kral	
Willard	Shawnee	917	26	53.5	106	" 9	- 7	7	34.90	10.71	"	0.00	.....	3.4	115	115	96	154	I. S. Lauck	
Kansas City, Mo.	741	48	55.9	104	" 9	- 6	48	33.86	9.99	June	0.25	July	1.7	113	154	79	132	U. S. Weather Bureau		
St. Joseph, Mo.	957	27	54.2	104	Aug. 9	- 9	27	34.61	8.20	June	0.11	July	2.6	9						

## Climatological Data for 1935—Continued

Stations	Counties	Elevation in ft.	Temperature, in degrees Fahr.						Precipitation, in inches						Sky	Prevailing direction of wind	Observers					
			Length of record yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record yrs.	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snow fall (unmelted)	No. days with 0.1 in. or more precipitation	Clear days	Part cloudy days	Cloudy days			
				Jan.	Feb.	Mar.	Apr.	May		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.				
<i>Middle Division—Continued</i>																						
Hesston	Harvey	1,483							13	33.09	9.92	May	T.	July	7.3	73	150	107	108	Amos Gingerich		
Hoisington	Barton	1,880							1	24.92	8.50		0.05	Dec.	1.0	49	264*	24*	76*	F. C. Ellgen		
Hudson	Stafford	1,867							14	21.16	6.86		T.		4.9	68			C. E. Durham			
Hutchinson	Reno	1,535	30	56.3	108	Aug. 11	-6	Jan. 21	45	33.59	14.02		0.12		5.5	81	162	58	145	Mrs. E. Plouge		
Kingman	Kingman	1,504							10		8.54		0.76	Aug.					L. G. Dale			
Kinsley	Edwards	2,171																	Mrs. C. G. Lewis			
Larned	Pawnee	2,090	50	56.6	107	July 11	-10		50	22.86	8.21		0.02		1.0	76	147	145	73	H. H. Wolcott		
Lincoln	Lincoln	1,374	23	56.2	111	Aug. 9†	-10		23	24.14	6.69	May	0.02	Jan.	3.5	67	122	120	123	R. W. Greene		
Lindsborg	McPherson	1,333							23	27.80	5.91		0.07	Dec.	4.9	68				A. J. Fredrickson		
Lyon	Rice	1,696							4	24.99	6.32		0.08		7.2	83				H. L. Ramage		
McPherson	McPherson	1,495	39	56.9	109		11		21	25.13	6.67		0.16		2.4	86	161	79	125	Ed. Haberlein, Jr.		
Marion	Marion	1,310							41	27.91	8.26		0.17		2.0	64	185*	105*	73*	Dr. P. J. Garrison		
Medicine Lodge	Barber	1,475	42	58.6	109		11		21	26.84	11.95		0.19	July	3.6	79				S. P. Garrison		
Medora	Reno	1,484							22	33.28	12.02		0.19	Dec.	2.7	73				A. M. Bear		
Minneapolis	Ottawa	1,259	45	55.7	108	July 11†	-8		21	45	25.44	6.73	0.01	Jan.	3.6	79	199*	92*	72*	E. G. Sidener		
Mt. Hope	Sedgewick	1,410							38	32.33	9.67	May	0.16	Dec.	0.2	62				W. R. Ives		
Newton	Harvey	1,454	33	55.9	106	Aug. 11	-9	Jan. 21	38	33.37	12.21		0.20	**	0.7	98	141	90	134	s.	E. W. Swim	
Norwich	Kingman	1,496	39	58.3	108		6		21	39	32.12	10.43		0.03	July	3.2	78	204	87	74	J. A. Green	
Phillipsburg	Phillips	1,939	44	55.2	113	July 10	-11		21	44	21.76	5.19	0.09	Jan.	9.0	87	159	87	119	Mrs. Lila A. Lane		
Plainville	Rooks	2,156	29	55.1	110	Aug. 1	-11		21	29	25.78	7.36	0.07	July	8.5	89	152	141	72	Chas Lambert		
Pratt	Pratt	1,880	40	57.6	108	July 11	-6		21	40	23.45	9.02	0.00	T.	3.0	56				Chas. W. Pratt		
Russell	Russell	1,834	36	55.7	112		11†	-11	21	36	19.30	5.68	0.01	Jan.	4.3	62	57	244	64	C. W. Woolman		
Salina	Saline	1,227	51	57.3	111		11	-7	21	51	32.59	8.58	0.16	Jan.	7.9	102	162	99	104	E. A. Laubengayer		
Sedgewick	Harvey	1,377							19	28.71	10.57	May	0.07	July	1.3	90				Ernest Koch		
Smith Center	Smith	1,800	15						25	29.07	8.68		0.00	Jan.	3.0	44				A. E. Nelson		
Trousdale	Edwards	2,050							20	18.26	7.39		0.02	Dec.	1.7	59				H. L. Cudney		
Wellington	Summer	1,228	38	58.1	111	Aug. 11	-5	Jan. 21	38	34.73	10.48		0.66		2.0	74				L. H. Sarchet		
Wichita	Sedgewick	1,300	48	57.0	105		11†	21	41	48	36.23	11.22	0.23	July	1.5	98	181	93	141	U. S. Weather Bureau		
Winfield	Cowley	1,124	41	58.6	108		6†	4	21	41	36.34	11.22	0.36	Jan.	1.0	61	186*	52*	126*	M. B. Light		
For the Division			56.4	113	July 10	-12	Jan. 21	....	27	67	14.02	....	0.00	Jan.	4.3	76	171	94	100	s.		
<i>Western Division</i>																						
Ashland	Clark	1,951	48	58.0	108	July 11	-7	Feb. 26	48	20.94	6.68	May	0.12	April	4.0	55	189	85	91	se.	M. G. Stevenson	
Atwood	Rawlins	2,894	38	109	Aug. 6	-16	Jan. 21	38	14.52	4.33		0.02	Jan.	10.5	49	203*	89*	64*	sw.	A. H. Hilpert		
Bird City(near)	Cheyenne	3,449							19	14.26	3.99	June	T.		19.5	54				Henry Weaver		
Bucklin	Ford	2,418							16	17.70	7.48	May	0.13	April	5.6	48				F. A. Gresham		
Cimarron	Gray	2,625	23	56.0	107	July 11†	2	Feb. 26	23	16.60	5.69		T.	April	3.5	217*	33*	110*	s.	R. R. Cruisnery		
Colby	Thomas	3,138	44	53.8	109		30†	-16	Jan. 21	44	13.23	3.88	June	T.	Jan.	18.5	58	230	71	64	sw.	J. B. Kuska
Deerfield(near)	Kearny	3,449							19	13.45	4.82	May	T.	Mar.	1.0	45				C. C. Butler		
Dodge City	Ford	2,522	61	56.0	116	July 11	-8		21	61	15.09	4.40	0.03	April	4.0	73	179	97	89	s.	U. S. Weather Bureau	
Dresden	Decatur	2,731	41	54.5	112		10†	-15	21	41	14.09	5.05	0.01	Jan.	7.9	50	189	82	94	b. w.	B. W. Wernette	
Elkhart	Morton	3,595	11					-6	21	18	9.63	2.15	0.00	April	7.5	51				Fred Sutton		
Garden City	Finney	2,936	46	56.2	108		11†	-10	21	46	9.56	2.95	May	T.		3.7	37	292*	39*	33*		Ralph T. Kersey
Goodland	Sherman	3,591	28	53.9	106		30	-15	21	28	14.26	3.41	0.02	Jan.	9.0	71	144	144	77	nw.	F. J. Horton	
Healy	Lane	2,850	34		110	Aug. 11	-16		21	34	19.77	5.28	0.01	Dec.	5.2	197	89	79	se.	H. S. Jennison		
Hill City	Graham	2,134	27		111	July 31†	-13		21	27	....	5.38	0.00	Jan.	9.5	51				Alvin L. Law		
Hoxie	Sheridan	2,700	36	54.7	108		31†	-15	21	36	13.04	3.77	May	T.		42	197	82	86	s.	Nelson Long	
Hugoton	Stevens	3,100					11	-8	Jan. 21	31	12.40	2.71	0.00	April	6.8	55	274	67	24	s.	S. T. Townsden	
Jenmore	Hodgeman	2,268	33		110				21	33	15.31	4.03	0.02	Dec.	0.2	48				C. H. Guthrie		
Johnson	Stanton	3,276	19	57.1	110	Aug. 1	-10		21	19	9.89	2.87	0.02	April	4.5	45	128	115	122	s.	C. E. Van Meter	
Kalvesta	Finney												0.02	Dec.	7.0	42				T. L. Byler		
Kismet [near]	Seward	2,933	46	56.0	108	July 11	-11		21	45	12.52	3.65	0.02	April	10.1	42	151*	103*	106*	s.	Dale E. Beard	
Lakin	Kearny	2,933	46	56.0	108				21	32	14.21	4.60	0.00	July	44	164*	124*	74*	s.	J. W. Sinclair		
Leoti	Wichita	3,300	82	54.7	107	Aug. 11	-17		21	42	14.42	3.82	0.00	April	3.7	45	221	88	58	sw.	L. E. Gorsuch	
Liberal	Seward	2,843	28	58.6	109	July 11	-4		21	28	14.42	3.82	0.00	July	5.0	53	205*	109*	50*	se.	Chas. E. Wood	
Minneola	Clark	2,558							23	17.47	5.87		0.10						R. L. Rogers			
Ness City	Ness	2,260							28		7.89	..	0.03	Jan.	3.1	57	184	81	90	se.	Knox Barnd	
Norton [near]	Norton	2,340	44	53.8	111		10†	-12	21	44	16.90	4.82	0.05	Jan.	5.3	49	158*	142*	64*	se.	Sin Sleef	
Oakley	Logan	3,049	16	54.0	107		10†	-18	21	16	15.92	4.20	0.02	Dec.	8.8	47	205	114	46	s.	Prof. F. H. Bailey	
Oberlin	Decatur	2,539	48	53.2	106		10†	-16	21	48	15.11	4.27	0.02	June	7.0	42	191	102*	69*	ne.	E. W. Coldren	
Plains	Meade	2,766	18						25	19.17	6.24	May	0.00	April	8.8	39				P. S. Dahl		
Quinter	Gove	2,664	6	53.5	107	Aug. 1†	-14	Jan. 21	9	25.32	10.13	June	0.02	Jan.	6.7	64	232	78	55	s.	H. R. Turtle	
Richfield	Morton	2,933	38		109	July 11	-8		21	45	12.52	3.65	0.02	April	7.0	42	164*	124*	74*	s.	C. C. Wilson	
St. Francis	Cheyenne	3,288	27	53.5	109		30	-19	21	27	20.09	6.95	0.02	Jan.	9.5	71	182	102	81	s.	J. E. Uplinger	
Scott City	Scott	2,971	29	54.9	107	Aug. 11	-14		21	29	15.54	5.05	0.06	Dec.	10.5	57	191	102*	69*	ne.	Douglas Baker	
Scott City (near)	Scott																					

## Monthly and Annual Mean Temperatures for the Year, 1935, with Departures from the Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	
<i>Eastern Division</i>																										
Atchison.....	30.8	+ 2.9	36.6	+ 5.8	50.4	+ 7.4	51.6	- 2.2	58.4	- 5.6	69.0	- 4.6	83.6	+ 5.6	78.2	+ 1.3	67.9	- 1.0	55.0	- 1.9	39.4	- 4.3	31.0	- 0.2	54.3	+ 0.1
Bazaar.....	34.4	+ 4.2	38.9	+ 4.2	54.1	+ 8.8	53.0	- 2.9	59.6	- 4.5	69.6 <sup>b</sup>	- 4.6	82.7	+ 3.4	78.0	- 0.9	56.6	- 1.5	42.8	- 2.5	34.0	+ 0.5	56.7	.....		
Burlington.....	34.8	+ 3.8	39.4	+ 5.2	52.8	+ 7.0	53.2	- 2.9	61.1	- 4.0	71.0	- 3.5	84.6	+ 5.5	80.7	+ 2.2	69.2	- 1.6	57.4	- 1.3	42.6	- 3.2	38.4	- 0.6	56.7	+ 0.5
Centralia.....	30.4	+ 4.8	35.6	+ 4.3	48.9	+ 6.9	51.6 <sup>a</sup>	- 1.6	57.4	- 5.5	69.0	- 4.2	82.6	+ 4.3	77.8	+ 1.5	67.6 <sup>b</sup>	- 1.0	53.8	- 1.7	38.0	- 4.7	29.4 <sup>a</sup>	- 0.1	53.5	+ 0.1
Chanute.....	36.2	+ 3.1	40.4	+ 3.8	53.9	+ 6.9	54.3	- 2.2	62.3	- 3.8	71.6	- 4.0	84.2	+ 3.9	81.8	+ 2.2	71.6	- 0.6	59.6	- 0.7	43.2	- 4.3	34.8 <sup>a</sup>	+ 0.1	57.8	+ 0.2
Columbus.....	36.4	+ 2.7	40.7	+ 4.5	53.4	+ 6.2	54.6	- 2.1	62.2	- 3.5	71.2	- 3.5	82.2	+ 3.4	79.4	+ 1.1	69.1	- 2.1	59.0	- 0.5	44.4	- 2.9	35.1	- 0.9	57.3	+ 0.1
Council Grove.....	33.4	+ 4.8	37.7	+ 3.5	51.4	+ 7.5	52.0	- 3.4	60.4	- 3.6	71.2	- 2.8	84.2	+ 5.1	69.6	- 1.9	69.0	- 1.0	55.2	- 2.1	41.1	- 3.5	32.2	+ 0.2	55.6	+ 0.4
Emporia.....	33.8	+ 3.3	38.9	+ 5.3	52.2	+ 7.0	52.0	- 3.2	60.0	- 4.4	69.8	- 4.2	84.2	+ 5.3	79.5	+ 1.5	68.6	- 1.6	55.4	- 3.2	40.4	- 5.1	30.8	- 2.5	55.5	- 0.2
Eskridge.....	31.8 <sup>a</sup>	+ 3.6	37.3	+ 4.0	50.5	+ 6.6	51.0	- 3.5	59.8	- 3.6	69.4	- 3.9	83.3	+ 4.9	78.2	+ 1.2	68.0 <sup>b</sup>	- 1.6	55.8 <sup>b</sup>	- 1.5	40.4	- 3.8	31.8	- 0.1	54.8	+ 0.1
Eureka.....	35.6	+ 4.4	40.2	+ 4.0	53.4	+ 7.1	53.8	- 3.4	61.5	- 3.0	70.8	- 3.8	83.0	+ 3.4	81.0	+ 2.1	69.5	- 1.6	56.7	- 2.0	42.3	- 4.1	33.4	- 1.1	56.7	+ 0.1
Fort Scott.....	35.8	+ 3.3	39.9	+ 4.3	53.2	+ 6.1	54.0	- 2.0	61.6	- 3.9	71.4	- 3.4	84.9	+ 5.7	80.9	+ 2.2	69.9	- 1.2	58.0	- 1.4	44.4	- 2.7	34.8	- 0.6	57.4	+ 0.4
Fredonia.....	36.0	+ 3.2	40.2	+ 3.3	52.2	+ 5.1	52.8	- 4.7	62.0	- 3.6	71.0	- 3.9	83.8	+ 4.0	81.6	+ 2.3	71.0	- 0.8	59.0	- 1.2	43.9	- 3.7	34.8	- 1.2	57.4	- 0.2
Horton [near].....	29.6	+ 2.8	35.0	+ 5.4	49.2	+ 7.6	50.8	- 2.1	57.3	- 5.5	68.2	- 4.3	83.3 <sup>b</sup>	+ 5.9	77.4	+ 1.3	67.4	- 0.6	54.4	- 1.9	39.5	- 3.4	30.6	+ 1.0	54.4	+ 1.3
Independence.....	37.4	+ 3.2	41.4	+ 4.3	54.8	+ 6.6	55.2	- 4.7	63.1	- 3.3	71.9	- 3.9	83.4	+ 3.3	81.9	+ 2.0	70.2	- 2.3	60.0	- 0.7	44.8	- 2.9	36.4	- 0.9	58.4	+ 0.2
Iola.....	35.6	+ 5.8	40.2	+ 7.0	53.7	+ 9.2	54.3	- 2.0	61.9	- 3.0	71.6	- 3.1	83.9	+ 4.5	80.4	+ 2.4	69.8	- 1.2	58.5	+ 0.2	43.5	- 2.6	34.3	- 0.1	57.3	+ 0.9
Lawrence.....	32.8	+ 3.5	38.1	+ 6.0	51.8	+ 7.8	52.9	- 2.0	60.2	- 4.1	70.8	- 2.9	85.2	+ 6.9	79.2	+ 2.3	68.0	- 1.5	56.0	- 1.9	41.8	- 3.1	33.2	+ 0.8	55.8	+ 0.8
Leavenworth.....	32.5	+ 4.1	38.3	+ 6.9	51.8	+ 7.6	52.4	- 3.1	60.2	- 4.9	71.4 <sup>a</sup>	- 2.2	84.6	+ 5.1	78.8	+ 1.4	68.6	- 1.4	56.7	- 1.5	41.0	- 4.2	32.9	+ 0.0	55.8	+ 1.4
Lebo.....	33.6	+ 4.0	38.0	+ 4.0	51.6	+ 6.4	52.4	- 3.1	59.8	- 5.0	70.1	- 4.2	83.6	+ 4.7	79.8	+ 1.5	68.7	- 1.5	55.5	- 2.8	41.6 <sup>a</sup>	- 3.3	32.5	+ 0.2	55.6	+ 0.1
Manhattan.....	33.2	+ 4.7	38.0	+ 5.5	51.8	+ 7.9	52.5	- 2.6	60.2	- 4.3	71.0	- 3.7	86.6	+ 7.1	81.4	+ 3.2	70.4	+ 0.2	56.1	- 1.8	40.7	- 3.5	33.0	+ 1.4	56.2	+ 1.1
Oketo.....	30.2	+ 4.8	36.0	+ 4.5	48.7	+ 7.3	50.6	- 3.1	57.9	- 4.8	68.6	- 4.9	84.6	+ 5.6	80.4	+ 3.4	68.1	- 0.7	53.8	- 2.3	38.8	- 3.8	30.6	+ 0.9	54.0	+ 0.5
Olathe.....	32.3	+ 2.0	37.1	+ 4.1	50.6	+ 6.2	51.5	- 2.8	59.0	- 4.5	70.0	- 4.1	83.8	+ 5.3	78.1	+ 0.9	68.6	- 0.8	55.5	- 2.3	41.5	- 3.4	32.4	+ 0.3	55.1	0.0
Osage City.....	33.4	+ 4.3	38.5	+ 5.1	50.4	+ 5.2	52.5	- 1.9	60.4	- 3.3	70.7	- 2.9	84.4	+ 6.8	79.4	+ 1.9	68.7	- 1.5	56.4	- 1.6	41.4	- 3.4	32.7	+ 0.2	55.7	+ 0.6
Ottawa.....	32.4	+ 2.8	37.9	+ 5.2	51.7	+ 7.2	52.2	- 2.7	60.0	- 4.3	70.2	- 3.4	84.0	+ 5.8	78.2	+ 1.1	67.6	- 2.0	56.0	- 1.6	40.9	- 3.6	31.4	+ 1.2	55.2	+ 0.2
Parsons.....	37.2	+ 3.2	41.8	+ 4.4	54.3	+ 6.0	55.8	- 2.2	63.2	- 3.2	72.2	- 3.4	84.8	+ 5.3	81.8	+ 2.3	71.5	- 1.0	60.6	- 0.1	44.7	- 3.6	33.8	- 1.2	58.1	+ 0.3
Sedan.....	37.4	+ 3.6	41.9	+ 5.1	54.0	+ 6.0	55.2	- 1.9	63.0	- 3.0	71.4	- 3.8	83.9	+ 3.7	82.4	+ 2.6	69.7	- 2.1	59.4	- 0.9	44.6	- 3.5	35.8	- 0.3	58.2	+ 0.4
Topeka 1.....	32.2	+ 4.6	36.7	+ 5.7	51.0	+ 8.4	52.4	- 2.3	59.4	- 4.9	71.2	- 2.2	87.0	+ 9.2	80.0	+ 0.8	69.1	+ 0.4	56.2	- 0.8	40.8	- 2.0	32.2	+ 0.2	55.7	+ 1.7
Topeka 2.....	33.8	+ 3.8	38.4	+ 5.2	52.2	+ 5.2	52.6	- 2.3	61.0	- 3.1	71.6	- 3.8	85.8	+ 8.0	82.0	+ 0.8	68.6	+ 0.6	56.6	- 0.8	40.8	- 2.0	32.0	+ 0.2	56.1	+ 0.8
Toronto.....	36.1 <sup>a</sup>	+ 4.9	40.3	+ 5.7	53.2	+ 7.7	53.6	- 2.4	62.4	- 2.8	70.9	- 3.7	83.8	+ 4.5	80.9	+ 1.9	70.6	- 1.0	59.4	0.0	42.0	- 4.3	34.8	+ 0.1	57.8	+ 0.8
Valley Falls (near).....	33.1 <sup>b</sup>	+ 5.0	40.0 <sup>a</sup>	+ 9.0	50.4 <sup>a</sup>	+ 7.4	52.4	- 1.8	59.4	- 4.3	70.2	- 2.8	84.8	+ 7.2	79.2 <sup>a</sup>	+ 2.9	68.2	- 0.3	56.0	- 1.4	39.9	- 4.1	32.6 <sup>b</sup>	+ 1.2	55.5	+ 1.4
Waimego.....	32.6	+ 3.8	38.4	+ 5.4	52.0	+ 8.7	53.2	- 2.1	60.0	- 4.7	71.4	- 3.5	86.3	+ 6.9	80.9	+ 2.9	69.5	- 0.2	56.0	- 2.0	40.9	- 3.9	32.8	+ 1.0	56.2	+ 1.1
Kansas City, Mo. ....	32.4	+ 4.2	36.8	+ 5.6	51.2	+ 8.5	52.5	- 2.6	59.8	- 5.0	71.6	- 2.0	86.8	+ 8.7	83.0	+ 3.2	70.2	+ 1.3	56.2	- 1.5	41.5	- 2.2	32.2	- 0.3	55.9	+ 1.5
St. Joseph, Mo. ....	30.2	+ 2.4	35.2	+ 2.9	49.0	+ 6.9	51.0	- 3.4	58.2	- 6.0	69.5	- 4.9	85.1	+ 7.8	74.8	+ 1.6	68.6	- 0.3	55.0	- 1.9	39.4	- 4.2	30.6	- 0.2	54.2	- 0.1
For the Division	33.7	+ 3.4	38.4	+ 5.0	51.8	+ 7.8	52.8	- 3.0	60.4	- 4.1	70.6	- 3.6	84.4	+ 5.6	79.9	+ 2.1	69.2	- 0.7	56.7	- 1.1	41.7	- 2.8	32.9	- 0.7	56.0	+ 0.7
<i>Middle Division</i>																										
Alden.....	35.6	+ 5.3	40.0	+ 5.6	52.0	+ 7.3	52.6	- 2.8	60.0	- 4.4	71.1	- 4.1	83.4	+ 3.4	81.1	+ 2.4	70.1	- 0.9	57.5	- 0.8	40.8	- 4.1	35.0	+ 2.0	56.6	+ 0.5
Alton [near].....	34.0	+ 6.7	38.8	+ 6.4	50.8	+ 8.1	53.0 <sup>a</sup>	- 0.7	53.6 <sup>b</sup>	- 4.3	70.2	- 3.4	86.1	+ 6.6	81.0	+ 2.6	66.8	- 3.1	52.6 <sup>b</sup>	- 4.0	39.1	- 3.7	35.4	+ 0.3	55.4	+ 1.2
Anthony.....	33.2	+ 5.2	41.7	+ 3.2	54.1	+ 6.5	54.8	- 2.1	62.2	- 3.1	73.3	- 3.7	84.6	+ 3.7	83.6	+ 3.5	70.6	- 2.1	59.4	- 0.3	42.4	- 4.9	35.5	- 0.8	57.7	+ 0.8
Belleview.....	34.6	+ 5.8	38.8	+ 5.5	50.9	+ 7.6	51.9	- 2.0	58.4	- 4.2	71.0	- 2.4	84.4	+ 5.3	81.4	+ 3.3	70.3	+ 0.2	56.2	- 0.6	39.7	- 3.3	34.4	+ 2.8	55.9	+ 1.3
Bison (near).....	29.6	+ 4.2	36.4	+ 6.6	48.0	+ 7.0	50.5	- 1.7	56.5	- 5.5	69.4	- 3.0	85.4	+ 7.2	79.4	+ 3.1	66.8	- 1.1	52.4	- 2.6	37.6 <sup>b</sup>	- 5.0	31.8	+ 3.4	56.3	+ 3.7
Burr Oak [near].....	33.5	+ 5.5	38.2	+ 4.5	52.2 <sup>a</sup>	+ 8.6	52.8	- 2.7	60.5	- 3.4	70.7	- 4.3	84.5	+ 5.2	82.2 <sup>a</sup>	+ 3.9	69.4	- 1.5	55.8 <sup>a</sup>	- 2.2	40.4	- 3.8	31.8 <sup>b</sup>	+ 0.3	56.0	+ 0.8
Chapman.....	33.8	+ 6.1	38.8	+ 6.0	52.1	+ 8.3	51.8 <sup>a</sup> </td																			

## Monthly and Annual Mean Temperatures for the Year, 1935, with Departures from the Normal—Continued

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.	Temp.	Dept.								
<i>Western Division—Continued</i>																										
Jetmore.....	39.2 <sup>a</sup>	+ 8.7	40.7	+ 6.6	52.3	+ 8.8	53.2 <sup>a</sup>	- 0.4	60.0	- 2.9	75.0	+ 1.6	86.0 <sup>a</sup>	+ 6.9	82.4	+ 4.8	71.2 <sup>b</sup>	+ 1.2	56.0 <sup>b</sup>	- 0.9	40.6 <sup>b</sup>	- 2.9	36.0	+ 4.0	57.1	+ 2.4
Johnson.....	38.6	+ 8.8	39.8	+ 4.0	50.6	+ 7.6	53.7	+ 0.5	58.8	- 4.0	75.7	+ 4.7	83.7	+ 4.2	69.4	+ 0.9	58.2	+ 1.9	40.2	- 2.0	35.6	+ 3.1	57.1	+ 2.4		
Lakin.....	35.7	+ 5.8	40.2	+ 6.5	50.5	+ 6.6	53.0 <sup>b</sup>	- 0.5	58.5 <sup>b</sup>	- 4.5	73.6	+ 0.8	82.8	+ 4.9	77.5 <sup>b</sup>	+ 0.1	68.4	+ 1.8	39.2	- 3.2	34.8	+ 3.6	56.0	+ 1.9		
Leoti.....	36.1	+ 8.7	38.2	+ 5.0	48.0 <sup>b</sup>	+ 8.5	51.5 <sup>b</sup>	+ 0.4	56.0	- 4.8	70.7	- 0.3	82.8	+ 5.6	79.3	+ 3.6	67.2	0.0	54.8	+ 0.9	37.8	- 2.8	33.9	+ 4.7	54.7	+ 2.3
Liberal.....	42.2	+ 9.1	43.0	+ 5.6	53.8	+ 8.0	53.3	- 1.5	58.3	- 5.3	74.7	- 0.1	85.0	+ 5.0	81.8	+ 3.7	70.6	- 0.6	59.5 <sup>a</sup>	+ 1.1	43.4	- 2.0	37.8 <sup>b</sup>	+ 3.8	58.6	+ 2.1
Norton (near).....	33.9	+ 6.9	37.0	+ 5.5	47.5	+ 6.9	49.6	- 2.0	54.9	- 6.3	68.7	- 3.0	85.1	+ 7.5	79.4	+ 3.4	67.4 <sup>a</sup>	- 0.2	52.2	- 2.5	36.4	- 4.8	35.2	+ 4.0	53.8	+ 1.2
Oakley.....	36.0	+ 7.3	38.4 <sup>a</sup>	+ 3.1	47.3	+ 6.5	49.1	- 2.8	52.5	- 5.7	69.5	- 1.8	82.5	+ 5.2	78.8	+ 3.5	67.5	+ 0.4	54.0 <sup>a</sup>	- 1.2	36.4	- 4.7	33.3	+ 2.2	54.0	+ 0.9
Oberlin.....	33.4	+ 6.5	36.3	+ 5.3	46.4	+ 6.0	49.2	- 2.1	54.6 <sup>b</sup>	- 6.4	70.4	- 1.2	82.8	+ 5.0	78.4	+ 2.8	66.8	+ 0.1	51.8	- 1.8	35.8 <sup>a</sup>	- 4.5	32.4	+ 3.6	53.2	+ 0.9
Quinter.....	32.3	+ 3.8	36.8	+ 3.0	46.8	+ 4.7	48.8	- 3.0	55.0	- 6.8	69.0	- 3.0	83.2	+ 5.4	79.8	+ 4.3	68.1	+ 1.8	53.5	- 1.0	35.4	- 5.6	33.3	+ 2.9	53.5	+ 0.6
Richfield.....	39.0	+ 8.5	38.3 <sup>a</sup>	+ 3.4	49.8 <sup>a</sup>	+ 7.4	52.0 <sup>b</sup>	- 1.3	56.8 <sup>b</sup>	- 6.0	74.4	+ 1.6	84.1	+ 5.6	81.2	+ 4.7	72.1	- 0.1	53.2	- 2.5	36.4	- 4.8	35.2	+ 4.0	53.8	+ 1.2
St. Francis.....	32.3	+ 5.0	37.6	+ 4.8	45.6	+ 5.5	48.9	- 1.2	54.8	- 4.9	69.4	- 0.5	83.4	+ 7.0	77.9	+ 3.9	66.2	+ 0.7	53.6 <sup>a</sup>	+ 0.9	37.8	- 2.6	34.6 <sup>b</sup>	+ 6.3	53.5	+ 1.9
Scott City.....	35.5 <sup>b</sup>	+ 6.2	38.3 <sup>a</sup>	+ 3.7	48.4	+ 6.7	51.0 <sup>a</sup>	- 1.3	56.3	- 5.1	70.6	- 1.8	82.4	+ 4.7	79.8 <sup>a</sup>	+ 3.7	68.2	+ 0.1	55.6	+ 0.2	38.8	- 4.0	34.2	+ 3.8	54.9	+ 1.3
Sublette.....	39.1 <sup>b</sup>	+ 8.4	39.6	+ 5.3	50.4	+ 7.0	52.5	- 0.4	57.6	- 4.5	72.8	- 0.6	83.0	+ 3.9	79.7	+ 2.8	67.2	- 2.6	57.9	+ 1.6	40.3	- 2.9	34.0	+ 2.3	56.1	+ 1.4
Tribune <sup>b</sup> .....	35.6	+ 8.6	36.4	+ 5.3	45.6	+ 6.5	49.2	- 0.9	54.4	- 5.7	69.8	- 0.8	81.0	+ 5.0	77.4	+ 3.1	66.1	+ 0.3	53.5	+ 0.3	36.5	- 3.6	33.2	+ 3.9	53.3	+ 1.6
Ulysses.....	38.6	+ 7.9	39.6	+ 5.7	50.6	+ 7.2	53.8 <sup>a</sup>	+ 0.1	57.8	- 5.5	73.4	+ 0.1	82.0	+ 3.6	80.2 <sup>b</sup>	+ 2.7	68.6	- 0.8	57.7 <sup>a</sup>	+ 1.8	40.2	- 2.4	34.6	+ 2.9	56.4	+ 1.8
Wakeeney.....	35.0	+ 5.1	38.6	+ 5.7	49.2	+ 7.2	50.3	- 2.7	56.3	- 5.8	68.8	- 3.5	83.6	+ 5.6	80.0	+ 2.8	68.1	- 0.6	53.3	- 2.7	37.5 <sup>a</sup>	- 5.2	35.1	+ 3.8	54.6	+ 0.7
For the Division.....	36.6	+ 6.9	38.7	+ 6.0	49.2	+ 7.6	51.4	- 1.4	56.7	- 5.4	71.2	- 1.2	83.6	+ 5.6	79.9	+ 3.6	68.2	+ 0.1	55.2	- 0.1	38.5	- 8.0	34.3	+ 2.7	55.3	+ 1.0
For the State.....	35.0	+ 5.1	38.8	+ 5.6	51.0	+ 7.8	52.3	- 2.4	59.0	- 4.7	71.0	- 2.7	84.3	+ 5.5	80.4	+ 2.9	69.1	- 0.4	56.1	- 0.9	40.2	- 3.1	33.8	+ 1.0	55.9	+ 1.1

† Evaporation station. The normal may be found by adding the departure when minus (−) or subtracting when plus (+).

## KILLING FROSTS

Stations	Last in Spring	First in Autumn	Stations	Last in Spring	First in Autumn		
<i>Eastern Division</i>							
Atchison.....	April 16	Oct. 6	Clay Center.....	April 15	Oct. 23		
Bazaar <sup>a</sup> .....	April 15	Oct. 23	Coldwater.....	..	Oct. 24		
Burlington.....	..	Oct. 24	Concordia.....	..	Oct. 24		
Carbondale.....	..	Oct. 6	Eldorado.....	..	Oct. 23		
Centralia.....	April 30	..	Ellsworth.....	..	Oct. 23		
Chanute.....	..	Oct. 24	Florence.....	..	Oct. 24		
Coffeyville.....	..	Oct. 23	Greensburg.....	..	Oct. 23		
Columbus.....	April 15	Nov. 5	Hanover.....	..	Oct. 6		
Council Grove.....	April 15	Oct. 24	Hays.....	..	Oct. 23		
Elmdale.....	..	Oct. 13	Herington.....	..	Oct. 24		
Emmett.....	..	Oct. 6	Hosington.....	..	Oct. 23		
Emporia.....	..	Oct. 24	Hutchinson.....	April 15	Oct. 24		
Eskridge.....	April 15	Oct. 24	Larned.....	..	Oct. 24		
Eureka.....	April 15	Oct. 24	Lincoln.....	..	Oct. 24		
Fort Scott.....	..	Oct. 15	McPherson.....	..	Oct. 24		
Fredonia.....	..	Oct. 15	Marion.....	..	Oct. 23		
Garnett.....	..	Oct. 6	Medicine Lodge.....	April 15	Nov. 1		
Holton.....	..	Oct. 6	Minneapolis.....	..	Oct. 23		
Horton <sup>a</sup> .....	April 30	Oct. 6	Newton.....	..	Oct. 24		
Howard.....	..	Oct. 13	Norwich.....	..	Nov. 8		
Independence.....	..	Nov. 13	Phillipsburg.....	April 19	Oct. 10		
Iola.....	..	Oct. 15	Plainville.....	..	Oct. 10		
Junction City.....	..	Oct. 15	Pratt.....	..	Oct. 31		
LaCygne.....	..	Oct. 24	Russell.....	..	Oct. 24		
Lawrence.....	..	Oct. 16	Salina.....	April 15	Oct. 23		
Leavenworth.....	..	Oct. 16	Wellington.....	..	Nov. 1		
Lebo.....	April 15	Oct. 24	Wichita.....	March 17	Nov. 1		
Manhattan.....	..	Oct. 16	Winfield.....	April 13	..		
Oketo.....	..	Oct. 6	<i>Western Division</i>				
Olathe <sup>a</sup> .....	..	Oct. 6	Ashland.....	April 13	Oct. 31		
Osage City.....	April 16	..	Atwood.....	..	Oct. 10		
Ottawa.....	..	Oct. 16	Bird City.....	..	Oct. 10		
Overbrook.....	..	Oct. 15	Cimarron.....	April 27	..		
Paola.....	..	Oct. 16	Colby.....	..	Oct. 31		
Parsons.....	..	Nov. 5	Deerfield <sup>a</sup> .....	..	Oct. 31		
Pittsburg.....	..	Oct. 15	Dodge City.....	April 7	Oct. 31		
Pleasanton.....	..	Oct. 23	Dresden.....	..	Oct. 10		
Pomona <sup>a</sup> .....	April 16	..	Garden City.....	..	Oct. 10		
Randolph.....	..	Oct. 23	Goodland.....	..	Oct. 10		
Reading.....	..	Oct. 24	Healy.....	..	Oct. 10		
Sedan.....	..	Oct. 18	Hill City.....	..	Oct. 19		
Topka.....	..	Oct. 8	Hoxie.....	April 19	Oct. 10		
Toronto.....	..	Oct. 15	Hugoton.....	..	Oct. 31		
Valley Falls.....	..	Oct. 19	Jetmore.....	..	Oct. 12		
Vinland.....	..	Oct. 16	Johnson.....	..	Oct. 31		
Walnut.....	..	Oct. 6	Kalvesta.....	..	Oct. 10		
Wamego.....	April 15	Oct. 24	Kismet <sup>a</sup> .....	..	Oct. 12		
Wheaton.....	..	Oct. 8	Lakin.....	April 25	Oct. 31		
Kansas City, Mo.....	..	Oct. 15	Leoti.....	..	Oct. 10		
St. Joseph, Mo.....	..	Oct. 16	Liberal.....	..	Oct. 23		
<i>Middle Division</i>			Minniola.....	..	Oct. 12		
Alden.....	April 15	Oct. 24	Norton.....	April 15	Oct. 10		
Alton <sup>a</sup> .....	..	Oct. 15	Oakley.....	..	Oct. 19		
Anthony.....	April 13	Nov. 1	Oberlin.....	..	Oct. 10		
Arkansas City.....	..	Oct. 13	Quinter.....	..	Oct. 19		
Augusta.....	..	Oct. 19	Richfield.....	..	Oct. 27		
Belleville.....	..	Oct. 6	St. Francis.....	..	Oct. 15		
Beloit.....	..	Oct. 23	Scott City.....	..	Oct. 19		
Bennington.....	..	Oct. 23	Sublette.....	April 10	Oct. 10		
Bison <sup>a</sup> .....	..	Oct. 19	Syracuse.....	..	Oct. 23		
Burr Oak <sup>a</sup> .....	..	Oct. 19	Tribune.....	..	Oct. 27		
Chapman.....	..	Oct. 15	Ulysses.....	..	Oct. 29		
(near).....	..	Oct. 24	Wakeeney.....	..	Oct. 15		

Continued from page 97

two outstanding hailstorms of the year occurred in June. The first, on June 20, originated in Washington County and passed diagonally across most of Marshall County, accompanied by a high wind that was very destructive in Frankfort. Hail damage from this storm was placed at \$110,000. The other occurred in Cheyenne County on June 25, with damage, chiefly to crops, estimated at \$108,000. In some parts of its path hail stones drifted to depths of 4 to 5 feet.

Every stream of importance in the State overflowed at some time during May or June and minor overflows occurred in some of the other months. The total flood damage along the basins of the principal streams was estimated at \$8,599,525 and ten lives were lost.

Damage by drainage basins was reported as follows: Republican, \$2,823,100; Kansas, \$2,131,100; Neosho, \$936,650; Osage (Marais des Cybes), \$723,600; Smoky Hill, \$718,800; Solomon, \$508,575; Verdigris, \$333,000; Arkansas, \$172,600; Blue, \$141,100; Cottonwood, \$101,000; and Marmaton, \$10,000. The major portion of this damage was to highways, bridges, and prospective crops.

The outstanding flood of the year was along the Republican River. The fast moving and disastrous crest of this flood reached Cheyenne County, in the northwest corner of the State, on the early morning of May 31, causing a loss of \$368,000 and the death of four persons in that County alone. After causing immense damage in Nebraska, this crest recrossed the Kansas-Nebraska line above Concordia on the night of June 1-2 and by the evening of June 3 had passed into the Kansas River near Junction City. All existing high water records were broken by the following crest stages: Guide Rock, Nebr., 24.0 feet; Scandia, Kans., 17.8 feet; Concordia, 17.05 feet; and Clay Center, 25.70 feet. All bridges along the Republican in Kansas were either washed away or greatly damaged.

The crest of this flood connected very closely at Manhattan with a crest from the Blue River and resulted in a stage at that place approximately two feet lower than the crest of the 1903 high water mark, the highest on record there. At Wamego and Topeka the crest closely approached the 1908 high water marks but it flattened out noticeably as it approached the lower reaches of the Kansas River.

Beloit, on the Solomon River, reached the record breaking stage of 34.50 feet on June 3 and, altogether, registered eight overflows of varying magnitude.

Continued on page 104

## Monthly and Annual Precipitation for the Year, 1935, with Departures from the Normal

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation.	Departure.																								
<i>Eastern Division</i>																										
Atchison.....	0.91	-0.05	1.22	-0.15	0.51	-1.71	2.63	-0.66	9.58	+4.49	5.74	+0.97	0.49	-3.46	2.05	-1.98	3.48	-1.19	3.49	+0.96	2.71	+0.97	0.36	-0.74	33.17	-2.07
Bazaar.....	0.88	+0.17	1.72	+0.51	0.70	-1.26	1.47	-1.48	9.91	+5.66	5.70	+1.02	0.15	-3.24	3.76	-0.05	3.44	+0.16	8.07	+5.23	2.60	+0.65	0.20*	-0.73	38.60	+7.24
Blue Rapids.....	0.03	-0.49	0.49	-0.43	0.57	-0.70	1.29	-1.58	5.34	+1.86	7.02	+2.25	0.95	-2.46	2.82	-0.46	5.86	+2.20	3.91	+1.72	1.52	+0.17	-0.56	31.36	+2.87	
Burlington.....	1.10	+0.04	1.20	-0.13	0.75	-1.76	2.65	-0.76	9.54	+4.75	7.16	+1.73	0.82	-3.09	4.38	+0.29	3.76	+0.75	6.90	+0.02	4.69	+2.87	0.36	-0.89	42.84	+6.32
Carbondale.....	0.96	+0.11	1.00	-0.21	0.47	-1.33	2.01	-1.07	11.82	+7.49	6.50*	+0.84	0.08*	-4.31	5.35	+1.78	4.11	+0.41	5.55	+2.55	4.42	+2.72	0.24	-0.62	42.04	+8.53
Centralia.....	0.17	-0.60	1.00	-0.27	0.46	-1.18	1.19	-1.78	4.89	+0.35	7.41	+2.61	3.20	-1.03	4.02	+0.57	4.24	+0.24	3.61	+0.61	0.35	+0.61	0.36	-0.80	31.34	+0.23
Chautau.....	1.96	+0.73	1.66	-0.16	1.19	-1.65	3.57	-1.05	17.29	+12.29	10.20	+5.21	0.39	-3.56	1.59	-1.85	2.32	-2.42	4.90	+1.87	7.86	+5.93	0.42	-1.12	53.29	+14.22
Coffeyville.....	2.49	+0.57	1.66	-0.17	3.88	-2.38	6.12	-0.90	9.22	+0.90	7.39	+1.13	0.23	-3.87	5.12	+1.19	6.75	+2.97	1.45	+0.52	4.70	+1.45	0.48	-0.93	50.49	+7.24
Columbus.....	2.19	+0.27	1.47	-0.48	3.36	+0.02	2.53	-2.06	9.22	+3.80	13.25	+7.16	0.23	-3.87	5.12	+1.19	2.68	-1.42	6.62	+3.12	2.88	+0.48	1.19	-0.93	50.49	+7.24
Council Grove.....	0.72	+0.02	1.44	+0.48	0.29	-1.53	0.79	-2.24	7.59	+2.53	8.20	+4.26	0.11	-3.57	7.66	+3.81	4.34	+1.02	4.92	+2.29	2.67	+0.72	0.15	-0.80	33.85	+7.99
Elindale.....	0.81	+0.16	0.81	0.00	0.26	-1.15	0.97	-2.03	10.95	+6.91	8.93	+4.83	0.05	-3.81	2.92	-0.88	2.15	+1.19	1.85	+3.55	2.21	+0.31	16*	-0.74	36.53	+6.07
Emmett.....	0.41	-0.13	1.01	-0.14	0.23	-1.52	1.13	-2.33	9.21	+5.19	3.23	-1.54	0.22	-3.05	3.81	+0.45	4.05	+0.22	3.83	+1.25	2.55	+0.88	0.36	-0.57	30.09	-1.43
Emporia.....	0.84	+0.13	0.98	-0.28	0.94	-1.06	1.42	-1.56	9.39	+4.37	6.15	+1.26	0.82	-2.83	5.81	+2.07	5.91	+2.34	8.85	+5.64	3.00	+1.43	0.25	-0.84	43.84	+10.67
Eskridge.....	0.95	+0.08	1.53	-0.10	0.58	-1.56	2.26	-1.88	12.89	+8.06	4.56	-0.66	0.00	-3.78	5.73	+2.06	2.91	-0.95	3.04	+0.11	2.83	+0.77	0.20	-0.66	36.56	+1.27
Eureka.....	1.17	+0.32	1.26	+0.04	1.06	-0.89	2.78	-0.67	11.37	+6.52	6.68	+2.29	0.64	-3.13	1.27	-2.31	3.31	-0.65	3.89	+0.49	4.61	+2.81	0.26	-0.92	37.77	+3.30
Fort Scott.....	1.82	+0.00	1.47	-0.40	2.21	-0.09	0.91	-0.30	11.28	+5.85	8.07	+1.88	0.26	-4.02	4.49	+0.87	3.97	+1.69	4.83	+1.56	5.39	+3.24	0.54	-0.73	52.57	+11.78
Fredonia.....	1.77	+0.45	1.46	+0.03	1.90	-0.31	2.16	-1.78	9.18	+4.16	12.36	+7.10	0.17	-3.60	2.92	-0.89	2.39	+1.69	4.83	+1.56	5.39	+3.24	0.54	-0.73	45.07	+7.54
Garnett.....	1.87	+0.69	1.65	+0.08	1.61	-1.23	4.30	+0.58	9.10	+4.51	7.31	+2.61	0.39	-3.60	5.61	+1.21	4.46	+0.52	5.95	+2.44	5.21	+3.07	0.66	-0.71	48.12	+10.17
Holton.....	0.75	-0.10	1.35	+0.17	0.05	-2.08	2.16	-1.06	9.00	+4.34	6.80	+1.67	1.76	-1.83	3.19	-0.40	2.61	-1.41	3.42	+0.45	2.25	+0.36	0.15	-0.95	33.53	-0.83
Horton(near).....	0.58	-0.22	1.04	-0.16	0.10	-0.71	3.01	-0.01	6.73	+2.74	7.33	+2.42	1.73	-3.07	3.01	+0.08	3.73	+0.57	6.82	+0.56	5.50	+1.01	0.17	-0.74	32.37	-0.23
Howard.....	1.24	+0.36	1.40	-0.21	1.51	-1.50	0.64	+0.35	10.63	+5.95	10.35	+5.05	0.03	-3.80	3.46	+0.20	2.85	-0.38	3.81	+0.74	5.91	+3.42	0.61	-0.78	46.12	+10.43
Independence.....	2.10	+0.59	1.57	-0.24	1.94	-0.53	2.03	-1.86	6.26	+1.56	9.45	+4.32	0.03	-3.91	3.20	+0.07	3.39	-0.56	4.62	+1.61	4.52	+2.52	0.92	-0.87	40.04	+2.71
Iola 1.....	1.83	+0.51	1.58	-0.09	1.63	-0.99	2.97	-0.52	12.05	+7.38	7.50	+2.03	0.63	-3.12	5.49	+2.00	2.49	-1.67	5.17	+1.35	6.82	+4.99	0.32	-1.07	49.51	+11.81
Iola 2.....	1.77	+0.34	1.35	-0.08	1.25	-0.58	3.05	-1.11	11.65	+8.19	7.01	+1.34	0.49	-3.59	2.28	-1.52	6.04	+2.59	3.39	+0.73	7.32	-0.33	0.33	-0.93	47.93	-0.22
Junction City.....	0.22	-0.46	1.66	+0.85	0.59	-1.22	1.30	-1.80	10.29	+6.19	6.58	+1.34	0.25	-3.59	2.28	-1.52	6.04	+2.59	3.39	+0.73	7.32	-0.33	0.33	-0.93	36.08	+3.76
Kansas City (sub).....	2.00	-0.00	1.56	-0.21	1.21	-0.00	3.01	-0.00	7.48	+5.98	0.20	-3.33	0.00	-3.55	5.46	-0.00	5.10	-0.42	0.42	-0.00	3.30	-0.00	-0.00	-0.00	39.30	-0.00
Leavenworth.....	1.33	+0.22	1.27	-0.20	0.90	-1.45	2.24	-0.86	11.00	+6.29	6.60	+1.71	0.91	-3.49	3.05	-1.04	6.14	+1.97	5.75	+2.89	3.46	+1.55	0.30	-1.04	42.93	+6.55
Leavenworth.....	1.18	+0.11	1.21	-0.14	0.28	-1.63	1.74	-1.26	12.47	+7.96	6.65	+1.68	0.52	-3.49	5.10	+1.04	4.23	+1.43	5.91	+2.42	3.40	+1.52	0.45	-0.59	44.92	+10.93
Lebo.....	0.77	-0.17	0.74	-0.68	1.11	-1.15	1.62	-1.38	6.00	+4.73	6.93	+1.58	0.07	-3.69	5.75	+1.82	5.38	+1.21	5.31	+2.53	3.45	+1.60	0.22	-0.98	49.98	+5.39
LeRoy.....	1.34	+0.30	0.99	-0.18	0.89	-1.62	1.78	-2.16	10.14	+5.34	7.80	+3.34	0.38	-3.38	3.63	-0.65	3.45	-0.89	8.92	+0.02	5.07	+5.17	0.17	-0.91	43.98	+7.64
Lyndon(near).....	0.69	-0.26	0.81	-0.39	0.42	-1.68	2.29	-1.29	14.09	+9.69	6.63	+1.63	0.02	-3.47	7.11	-0.19	6.41	+1.31	3.11	+1.31	4.23	+1.54	0.25	-0.52	43.11	+9.34
McFarland.....	0.36	-0.45	1.22	-0.18	0.32	-1.30	1.08	-2.12	8.00	+4.24	4.00	-1.40	0.04	-4.82	11.65	+7.54	4.52	+0.67	4.36	+1.72	2.87	+0.17	0.66	-0.82	37.98	+3.10
Manhattan.....	0.21	-0.56	1.12	-0.07	0.21	-1.29	1.05	-1.73	7.62	+2.39	6.79	+2.17	0.04	-4.49	8.79	+5.05	5.84	+1.93	4.31	+1.12	5.64	+1.65	0.59	-0.27	37.71	+6.22
Neosho Rapids.....	0.77	+0.02	1.15	+0.03	1.38	-0.54	1.32	-1.65	8.08	+3.63	6.07	+1.03	0.12	-3.20	4.35	+0.35	6.18	+2.63	7.10	+4.21	4.13	+1.91	0.44	-0.60	41.09	+7.82
Okeeto.....	0.55	+0.11	0.68	-0.21	0.89	-0.33	10.04	-2.08	6.06	+5.19	5.15	+2.05	0.61	-2.48	4.44	+1.24	4.25	+1.95	5.33	+0.32	0.22	-0.55	35.88	+7.58		
Olathe.....	1.20	-0.08	1.39	-0.15	0.70	-1.96	2.03	-1.21	16.22	+11.28	8.16	+4.51	1.35	-2.70	2.41	-2.03	7.22	+2.93	4.19	+1.63	4.09	+0.49	-0.37	49.29	+12.44	
Osage City.....	1.01	+0.11	1.35	+0.10	1.28	-0.79	1.71	-1.55	13.13	+8.83	6.00	+0.39	0.12	-3.37	7.07	+3.54	4.14	+0.24	5.40	+1.52	4.45	+1.52	0.45	-0.59	44.92	+10.93
Osgood.....	2.29	+0.60	1.63	-0.03	0.76	-0.23	2.04	-2.51	10.13	+5.41	12.12	+6.54	0.12	-3.94	4.44	+1.00	3.44	-0.31	11.11	+0.81	5.33	+1.29	1.12	-0.75	47.74	+7.88
Ottawa.....	0.93	-0.34	1.07	-0.35	0.81	-1.54	2.67	-0.55	9.10	+4.33	6.05	+0.88	1.65	-2.45	5.50	+1.35	2.80	-1.40	4.30	+1.50	4.23	+2.45	0.56	-0.66	39.76	+8.20
Overbrook.....	0.93	-0.34	1.41	-0.09	0.91	-1.22	1.75	-1.29	14.09	+9.69	6.63	+1.63	0.02	-3.47	5.61	-0.02	4.02	-0.71	4.64	+0.47	2.96	-0.31	0.31	-0.93	39.59	-0.00
Overbrook(near).....	1.12	+0.36	1.21	-0.19	1.22	-0.88	2.09	-1.06	16.02	+11.65	8.15	+5.57	+1.87													

**Monthly and Annual Precipitation for the Year, 1935, with Departures from the Normal—Continued**

Stations	January	February	March	April	May	June	July	August	September	October	November	December	Annual	
	Precipita- tion.	Depar- ture.	Precipita- tion.											
<i>Middle Division - Continued</i>														
Kingman.....	.....	.....	.....	.....	1.03	.....	8.54	.....	4.95*	.....	1.85	.....	0.76	
Kinsley.....	0.20	-0.12	0.56	-0.25	0.24	-0.65	0.19	-1.93	8.21	+4.89	5.89	+2.01	0.61	
Larned.....	0.02	-0.46	0.66	-0.52	0.17	-1.06	0.33	-2.53	6.69	+3.65	6.62	+2.88	2.11	
Lincoln.....	0.30	-0.30	1.51	+0.54	0.82	-0.59	0.42	-2.26	5.91	+1.98	4.11	-0.29	4.18	
Lindsborg.....	0.27	.....	1.18	.....	0.52	.....	0.60	.....	6.32	.....	5.79	.....	1.74	
Lyons.....	0.66	-0.14	1.33	+0.05	0.72	-0.85	0.56	-2.16	6.67	+2.12	3.47	-1.65	1.08	
McPherson.....	0.47	-0.19	0.58	-0.52	1.06	-1.23	1.19	-1.09	2.83	+4.11	4.41	+0.05	0.39	
Marion.....	0.82	+0.38	0.69	-0.19	1.32	+0.10	0.75	-1.56	11.95	+7.88	1.86	-1.86	0.19	
Medora.....	0.79	+0.21	1.37	+0.27	1.09	-1.82	1.35	-1.24	0.2	+8.04	5.45	+1.05	0.55	
Minneapolis.....	0.01	-0.48	0.79	-0.17	0.49	-0.65	1.19	-1.21	6.78	+3.04	3.80	-0.38	1.63	
Mt. Hope.....	0.97	+0.30	0.88	-0.29	1.05	-0.48	3.60	+0.86	9.67	+5.88	5.45	+0.99	0.50	
Newton.....	0.70	+0.10	0.99	-0.17	1.05	-0.69	1.40	-2.09	12.21	+7.73	4.39	-0.43	0.91	
Norwich.....	1.01	+0.37	0.98	-0.01	1.05	-0.41	0.75	-2.35	10.43	+6.13	5.16	+0.80	0.03	
Phillipsburg.....	0.09	-0.31	0.50	-0.26	0.19	-0.69	0.95	-1.43	5.19	+2.14	3.90	+0.09	1.14	
Plainville.....	0.13	-0.28	0.85	-0.03	0.27	-0.80	0.46	-2.05	7.36	+4.45	6.42	+2.46	0.07	
Pratt.....	0.74	+0.15	0.67	-0.15	1.12	-0.03	0.56	-2.00	9.02	+5.70	4.83	+1.61	T.	
Russell.....	0.01	-0.42	0.56	-0.32	0.35	-0.86	0.23	-2.56	5.58	+2.34	3.62	-0.55	0.03	
Salina.....	0.16	-0.51	1.25	+0.25	0.74	-0.59	0.90	-1.72	8.58	+4.73	5.04	+0.56	3.26	
Sedgewick.....	0.63	+0.15	1.26	+0.11	1.10	-0.69	1.44	-2.15	10.57	+6.57	3.79	-0.43	0.07	
Smith Center.....	0.00	-0.29	0.30	-0.31	0.10	-0.75	0.60	-1.98	8.68	+5.52	3.96	+0.48	0.37	
Trousdale.....	0.67	+0.41	0.59	-0.08	0.66	-0.61	0.28	-2.33	7.39	+4.44	2.97	-0.53	0.71	
Wellington.....	1.26	+0.58	1.48	+0.33	1.72	+0.26	0.99	-2.37	10.48	+6.08	6.68	+1.43	0.93	
Wichita.....	0.87	+0.09	1.39	+0.14	0.98	-0.77	1.86	-1.05	11.21	+6.76	7.21	+2.83	0.39	
Winfield.....	0.70	-0.22	1.43	+0.17	1.11	-0.62	2.96	-0.21	11.22	+6.66	4.35	-0.91	0.36	
For the Div.....	0.38	-0.20	0.89	-0.08	0.76	-0.54	1.02	-1.45	8.46	+4.64	5.05	+0.91	0.76	
<i>Western Division</i>														
Ashland.....	0.97	+0.56	0.47	-0.34	1.08	+0.06	0.12	-1.96	6.68	+3.88	3.44	+0.01	0.42	
Atwood.....	0.02	-0.24	0.35	-0.18	0.31	-0.47	0.74	-1.24	4.33	+1.80	3.19	+0.40	1.29	
Bird City (near) T.	-0.20	0.30	-0.21	0.60	-0.10	0.78	-0.95	2.36	0.26	3.99	+1.47	1.40	-1.27	
Bucklin.....	0.92	+0.63	0.34	-0.31	0.65	-0.79	0.13	-1.87	7.48	+4.73	1.19	-2.24	1.98	
Cimarron.....	0.49	+0.24	0.38	-0.47	0.89	+0.17	T.	-1.97	5.69	+3.15	2.88	-1.00	T.	
Colby.....	T.	-0.26	0.32	-0.27	0.42	-0.39	0.33	-1.91	3.41	+0.87	3.88	+0.84	0.30	
Dearfield (near) T.	0.40	+0.21	0.07	-0.70	T.	-1.06	0.10	-1.86	4.32	+1.87	1.15	-1.46	0.57	
Dodge City.....	0.65	+0.24	0.55	-0.22	0.84	-0.05	0.03	-1.91	4.40	+4.51	1.95	-1.35	1.09	
Dresden.....	0.01	-0.32	0.17	-0.63	0.38	-0.59	0.64	-1.92	5.05	+2.11	3.82	+0.82	0.17	
Ekhart.....	0.40	+0.17	1.07	-0.54	0.82	-0.42	0.00	-1.19	1.60*	-0.66	1.33	-0.91	0.98	
Garden City.....	0.47	+0.16	0.09	-0.80	0.48	-0.46	T.	-2.10	2.95	+0.44	1.37	-1.81	0.30	
Goodland.....	0.02	-0.22	0.31	-0.27	0.49	-0.42	0.30	-1.70	1.70	+0.46	3.11	+0.28	0.56	
Healy.....	0.07	-0.25	0.24	-0.42	0.15	-0.50	0.03	-1.88	5.28	+2.71	4.07	+0.96	0.16	
Hill City.....	T.	-0.30	0.57	-0.19	0.08	-0.96	0.60	-1.44	4.61	+1.59	5.38	+1.93	1.02	
Hoxie.....	T.	-0.23	0.18	-0.50	0.14	-0.90	0.46	-1.72	3.77	+0.76	2.73	-0.46	0.28	
Hugoton.....	0.58	+0.32	0.14	-0.50	1.26	+0.43	0.00	-1.69	2.71	+0.11	1.26	-1.44	1.35	
Jetmore.....	0.15	-0.08	0.53	-0.27	0.44	-0.51	0.06	-1.98	4.03	+1.01	1.21	-2.00	0.15	
Johnson.....	0.46	+0.28	0.14	-0.36	0.38	-0.74	T.	-1.22	1.80	-0.77	2.87	+0.61	1.28	
Kalvesta.....	Kismit (near).....	0.88	+0.70	0.18	-0.56	0.99	+0.39	T.	-1.48	4.94	+2.10	1.95	-0.52	1.28
Lakin.....	0.23	+0.01	0.14	-0.54	0.50	-0.29	T.	-1.91	3.65	+1.67	1.54	-0.70	0.82	
Leoti.....	0.20	-0.08	0.37	-0.35	0.34	-0.54	0.17	-1.77	3.53	+1.06	4.60	+1.85	T.	
Liberal.....	0.26	+0.07	T.	-0.89	1.93	+1.05	0.00	-1.50	3.62	+1.00	1.49	-1.26	0.69	
Minneola.....	0.84	+0.60	0.33	-0.28	1.55	+0.43	0.10	-1.88	5.87	+3.01	3.11	-2.02	1.09	
Ness City.....	0.04	-0.28	0.31	-0.45	0.17	-0.60	0.03	-2.27	7.89	+4.63	4.26	+0.56	0.32	
Norton (near) T.	-0.29	0.21	0.17	-0.48	T.	-1.17	1.03	-1.54	4.82	+1.72	3.36	-0.36	0.58	
Oakley.....	0.05	-0.19	0.15	-0.39	0.33	-0.60	0.56	-1.28	4.20	+1.60	2.28	-0.82	1.82	
Oberlin.....	0.02	-0.31	0.19	-0.56	0.35	-0.74	0.44	-2.23	3.79	+0.82	4.27	+1.23	1.05	
Plains.....	0.71	+0.43	0.12	-0.76	2.05	+1.08	0.00	-1.65	6.24	+3.68	1.54	-1.53	3.33	
Quinter.....	0.02	-0.28	0.48	-0.15	0.29	-0.61	0.43	-1.65	5.58	+2.77	10.13	+7.01	1.86	
Richfield.....	0.40	+0.04	0.05	-0.65	0.60	-0.27	T.	-1.74	1.63	-0.53	1.33	-1.03	0.65	
St. Francis.....	0.02	-0.20	0.30	-0.18	0.66	-0.05	0.65	-0.40	6.95	+3.96	2.96	+0.36	0.32	
Scott City (near).....	0.22	-0.11	0.42	-0.39	0.20	-0.84	0.24	-1.73	5.05	+2.48	3.60	+0.53	0.41	
Scott City (near).....	0.15	-0.11	0.11	.....	0.18	.....	0.10	.....	9.81	.....	4.22	.....	0.00	
Sharon Springs.....	T.	-0.19	0.25	-0.20	0.36	-0.20	0.10	-1.59	4.25	+1.67	3.58	+1.11	0.87	
Sublette.....	1.21	+0.96	0.18	-0.46	0.61	-0.42	0.00	-1.85	3.30	+0.52	1.28	-1.82	0.77	
Syracuse.....	0.26	+0.10	0.15*	-0.42	0.30	-0.35	0.60	-1.16	4.45	+1.99	1.42	-1.04	0.75*	
Tribune.....	0.02	-0.28	0.19	-0.28	0.51	-0.49	T.	-1.93	2.61	+0.17	2.20	-0.41	0.62	
Ulysses.....	0.59	+0.30	0.08	-0.51	0.39	-0.16	T.	-1.50	2.82	+0.63	3.07	+0.31	0.84	
Wakeeney.....	T.	-0.39	0.38	-0.41	0.10	-0.75	0.71	-1.49	7.85	+5.02	7.16	+3.26	1.93	
For the Div.....	0.31	0.00	0.25	-0.43	0.61	-0.23	0.25	-1.78	4.65	+2.00	2.90	-0.05	0.80	
For the State.....	0.61	-0.05	0.79	-0.22	0.82	-0.62	1.13	-1.46	7.78	+4.01	5.08	+1.08	0.68	

T. Indicates a trace, or less than 0.005 inch. The normal may be found by adding the departure when minus (-) or subtracting when plus (+). 1 Evaporation station.

\* Interpolated.

MONTHLY AMOUNTS OF EVAPORATION--INCHES--AND WIND MOVEMENT--MILES--DURING THE YEAR

Stations	Data	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
tribune.....	{ Evaporation..... Wind movement.....				9.398 6.982	6.227 6.184	10.499 4.987	16.951 5.113	13.289 4.802	8.510 4.330			

Continued from page 101

On the lower Neosho River, Oswego rose to a crest of 25.02 feet on June 2 which lacked only 0.4 foot of the highest ever recorded there. At this place a total of eight overflows occurred during the year.

During February, March, and April, dust storms of unprecedented frequency and severity occurred over the State, being more numerous in the western counties than elsewhere but extending to the eastern border on several occasions.

Storms of this nature that were outstanding for their severity occurred February 21 and 24 in the western part of the State; March 15-16 over the northwestern and north-central counties; March 20 over the eastern half; and April 10 and 14 over the western half.

During some of these, dust became so thick in the southwestern part of the State as to cause total darkness early in the afternoon and chickens went to roost as early as 3 p.m. In some localities schools in the western counties were closed on

account of the danger to children in going and coming through the dust. In several of them all forms of travel, including trains and busses, were stopped in the vicinity of Dodge City and highways were closed. The Secretary of the State Board of Health reported that by the close of April seventeen deaths had been traced to complications caused by dust, of which fourteen were from pneumonia. Suffocation by dust was given as the cause of the death of three persons caught out in the open.

Heavy rains that began early in May put an end to dust storms, except in some of the southwestern counties, where they occurred locally on a few days through the remainder of the year.

#### ERRATA

On page 98 of the Annual for 1934 the total precipitation for the year at Centralia should be 25.04 instead of 31.61 and a corresponding change should be made in the Annual amount for Centralia on page 102.

#### TOTAL PRECIPITATION, 1935

Cheyenne 14.26	Rawlins 14.52	Decatur 15.11	Norton 16.90	Phillips 21.76	Smith 29.07	Jewell 28.02	Republic 26.30	Washington 30.23	Marshall 31.36	Nemaha 31.84	Brown 32.37	Linn 34.61
Sherman 14.26	Thomas 13.23	Sheridan 13.04	Graham 19.81	Rooks 25.78	Osborne 23.48	Mitchell 30.51	Cloud 33.52	Clay 33.05	Kiley 32.71	Pottawatomie 33.53	Jackson 33.17	Adams 33.86
Wallace 12.13	Logan 15.92	Gove 25.32	Trego 23.93	Ellis 21.87	Russell 19.30	Lincoln 24.14	Ottoe 25.44	37.71	Shawnee 42.10	Jefferson 47.0	Leavenworth 47.0	Wyoming 47.0
Greeley 8.83	Wichita 14.21	Scott 15.54	Lane 19.77	Ness Rush Baron 20.32	Pawnee 22.86	Stafford 21.16	Ellsworth 28.35	Saline 32.59	Geary 31.94	Wabaunsee 36.56	37.31	Douglas 42.93
Hamilton 12.56	Kearny 12.52	Finney 9.56	Hodgeman 15.31	Gray 16.60	Ford 15.09	Edwards 18.26	Rice 23.54	McPherson 25.13	Marion 27.91	Chase 38.60	43.84	Johnson 49.29
Stanton 9.89	Grant 11.79	Haskell 12.01	Meade 21.74	Clark Barber	Pratt 23.45	Reno 38.59	Harvey 33.37	Sedgwick 37.59	Butler 37.77	Greenwood 48.11	Franklin 39.76	Miami 44.06
Morton 9.68	Stevens 12.40	Seward 14.42	19.17	20.94	Comanche 21.79	26.84	Kingman 32.12	36.23	Erie 46.12	Woodson 49.51	Allen 52.84	Wichita 48.12
					Harper 25.38	Sumner 34.73	Cowley 36.34	Chautauqua 44.67	Montgomery 40.04	Neosho 53.29	Bourbon 53.56	Crawford 53.56
									Montgomery 45.07	Labels 53.67	Labels 50.49	Cherokee 50.49