

DAILY PRECIPITATION FOR JUNE, 1935 -Continued

Table with columns for Stations, Drainage-Basins, Day of month (1-31), and Total. Rows include Middle Division and Western Division stations like Lindsborg, Lyons, Marion, etc.

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for the 24 hours, midnight to midnight. † Evaporation station. T, Trace, or less than 0.005 inch. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete. * Precipitation included in next following measurement.

DAILY EVAPORATION--INCHES--AND WIND MOVEMENT--MILES--FOR JUNE, 1935 (See temperature and precipitation data in Climatological Tables.)

Table with columns for Stations, Data, Day of Month (1-31), and Monthly. Station: Tribune. Data: Evaporation, Wind movement.

* Included in next reading. § Incomplete. Wind velocity records in this table are made with 4-cup anemometers.

DAILY TEMPERATURES FOR JUNE, 1935

Table with columns for Stations, 1-31, and Mean. Rows are grouped by division: Eastern Division (Aitchison to St. Joseph, Mo.), Middle Division (Alton to Lincoln), and other stations (McPherson to Russell). Each station row shows maximum and minimum temperatures for each day of the month.

DAILY TEMPERATURES FOR JUNE, 1935 - Continued

Table with columns for Stations (Middle Division and Western Division) and days 1-31, plus a Mean column. Rows include Salina, Wichita, Winfield, Ashland, Atwood, Cimarron, Colby, Dodge City, Dresden, Garden City, Goodland, Healy, Hill City, Hoxie, Johnson, Lakin, Leoti, Liberal, Norton, Quinter, Richfield, St. Francis, Scott City, Sublette, Tribune, and Wakeeney.

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from record. Temperatures given in this table are in each instance for the 24-hour period ending about sunset, except as otherwise stated. Regular Weather Bureau station; temperatures are for 24-hour period extending from midnight to midnight. Records of daily temperatures are also kept at the following stations: Centralia, Columbus, Eskridge, Lebo, Toronto, Alden, Bison, Chapman, Herington, Medicine Lodge, Plainville, Wellington, Elkhart, Jemore, Oakley, Oberlin and Ulysses. These are on file at the Weather Bureau Office, Topeka, Kansas. ** Temperatures at this place are for 24-hour period ending 8 a. m.

KANSAS STORMS, JUNE, 1935

Table with columns: Location, Date, Hour, Nature of storm, Storm moved from, Width of path, Length of path, Loss of life, Property damage (estimated), and Remarks. Entries include Hodgeman & Pawnee Counties, Sumner County, Shawnee County, Marshall County, Cheyenne County, Crawford, Cherokee, & Labette Counties, Leavenworth County, Cheyenne County, Scott County, and Cheyenne County.

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The following table gives a comparison of the more important overflows of this month with previous great floods:

Station	Flood stage	Republican River		High mark this month	Date
		Previous record, Year	Year		
Guide Rock	11	16.8	1915	24.0	1
Scandia	10	14.2	1915	18.2	2
Concordia	8	15.0	1915	17.05	2
Clay Center	12	25.74	3
Kansas River					
Ogden	18	{ 31.0	1903	27.96	3
		{ 23.3	1915		
Manhattan	17	{ 27.9	1903	27.95	4
		{ 24.8	1908		
Wamego	16	{ 26.27	1903	23.79	4
		{ 23.01	1908		
Topeka	21	{ 32.7	1903	27.6	5
		{ 28.0	1908		
Lawrence	18	{ 27.0	1903	22.1	6
		{ 23.8	1908		
Bonner Springs	21	23.05	6
Solomon River					
Beloit	18	33.6	1919	34.50	3
Niles	24	34.3	1903	29.55
Marais des Cygnes River					
Quenemo	30	38.37	1928	38.7	3
Ottawa	24	37.6	1928	32.0	3
LaCygnes	21	29.29	1928	27.2	4
Lower Neosho River					
Chanute	20	29.6	1926	24.5	1
Parsons	22	27.53	1928	27.44	1
Oswego	17	25.4	1927	25.02	2

The Republican flood the first three days of the month, the worst in the State, moved very rapidly and swept away nearly all bridges and many small buildings in its path. Total area covered by it was estimated at 125 square miles and the damage, exclusive of that to railroads, was estimated at \$2,451,600, of which almost a million dollars was to highways, bridges, and buildings. A second and smaller overflow of the Republican on the 19-21st caused little additional damage.

In addition to this loss along the Republican, the sudden arrival of the crest in Cheyenne County and the unprecedented height of the flood there caused the death of four persons at the opening of the month and a property loss of \$258,000 in addition to a great loss to highways, bridges, and buildings, which was not estimated.

The crest of the Republican connected very closely with the crest of a rather serious overflow of the Blue at Manhattan and resulted in a stage at that place that slightly exceeded the great overflow of 1903. This crest tended to flatten out as it moved down the Kansas Valley. It approximated the 1908 highwater marks at Wamego and Topeka and fell below them at Lawrence and points farther down. Total damage in the Kansas River Valley, exclusive of that to railroads, was estimated at \$1,332,100, the largest single loss being to prospective crops, 112,500 acres being flooded. This loss would probably have been twice as great had not timely warnings made it possible to hold the dyke system at Topeka, preventing serious flooding of any part of the City. Damage to railroads in the Kansas Basin exceeded half a million dollars.

The Solomon River overflowed three times at Beloit, reaching the record breaking crest on the 3d and lesser crests on the 19th and 29th. Two overflows occurred at Niles. Total damage along this stream was placed at \$477,875.

The Smoky Hill overflowed four times at Lindsborg, reaching crests on the 5th, 16th, 21st, and 30th. At Salina it overflowed slightly on the 23d and at Enterprise on the 8-10th. Total damage was estimated at \$263,500.

The record breaking overflow of the Marais des Cygnes at Quenemo on the 3d was followed by serious overflows at and below Ottawa. Damage was estimated at \$541,600, more than half of which was to prospective crops.

The comparatively small overflow of the Neosho at and above Iola occurred from the 2d to the 4th. At Chanute the river overflowed twice, with crests on the 1st and 17th. Near Parsons crests occurred on the 1st and 17-18th. At Oswego the Neosho overflowed three times, reaching crests on the 2d, 3d, and 18th. Total damage along the Neosho was placed at \$512,150, most of which occurred the opening days of the month.

Minor overflows along the Cottonwood River caused a loss of \$101,000.

The flood along the Big Blue River, which came largely from heavy rains along the Little Blue, occurred the first three days of the month, with damage estimated at \$95,600.

In the Arkansas Valley flood conditions the latter part of May continued into the opening days of June. At Hutchinson a crest of 8.9 feet, 1.9 above bankful, occurred June 2-3d and the crest at Wichita, at about the same time, was 9.8 feet, or 0.8 above bankful. Extensive flooding on the west bank extended from Hutchinson to below Maize. Some flooding occurred near Derby and Mulvane, also. At Arkansas City flooding of lowlands continued until after June 6, with a crest of 17.6 feet, 2.6 above bankful, on the 5th. In the Walnut Valley flooding continued for several days, with a crest of 29.5 feet at Winfield on the 3d. Damage in the Arkansas Basin, while small compared with that in other drainage basins of the State, was not estimated.

The Verdigris at Independence reached a crest of 39.5 feet on the 1st and another crest of 39.1 on the 17th. Bankful stage at that place is 30 feet. In Montgomery County the loss was estimated at \$163,000 of which \$100,000 was to matured crops, mostly wheat.

TOTAL PRECIPITATION, JUNE, 1935

Cheyenne	Rawlins	Decatur	Norton	Phillips	Smith	Jewell	Republic	Washington	Marshall	Nemaha	Brown	Doniphan	
3.99		4.27	3.36	3.90	3.96	6.28	3.10	7.03	7.02	7.41	7.93	8.20	
Sherman	Thomas	Sheridan	Graham	Rooks	Osborne	Mitchell	Cloud	Clay	Riley	Pottawatomie	Jackson	Atchison	
3.11	3.88	2.73	5.38	6.42	5.58	8.39	7.53	4.42	4.53	6.80	5.74	3.24	
Wallace	Logan	Gove	Trego	Ellis	Russell	Lincoln	Ottawa	Geary	Wakarusa	Cherokee	Shawnee	Woods	
3.58	2.28	10.13	7.16	4.12	3.62	6.62	3.80	6.79	6.58	4.56	5.05	7.25	
Greeley	Wichita	Scott	Lane	Ness	Rush	Barton	Ellsworth	Dickinson	Morris	Lyon	Osage	Douglas	Johnson
2.20		3.60	4.07	4.26	4.86	5.94	5.84	6.82	8.20	6.15	6.00	6.60	6.76
Hamilton	Kearny	Finney	Hodgeman	Pawnee	Stafford	Reno	Rice	McPherson	Marion	Chase	Coffey	Franklin	Miami
1.42	1.54	1.37	1.21	5.89	6.45	6.70	5.43	3.47	4.41	5.70	7.16	6.05	6.76
Stanton	Grant	Baskell	Gray	Ford	Edwards	Pratt	Harvey	Butler	Greenwood	Woodson	Allen	Bourbon	
2.87	3.07	1.28	2.88	1.95	2.97	4.83	4.39	4.93	6.68	8.55	7.50	8.07	
Morton	Stevens	Seward	Meade	Clark	Kiowa	Barber	Kingman	Sedgwick	Elk	Wilson	Neosho	Gewford	
1.33	1.26	1.49	1.54	1.31	3.63	4.83	5.16	7.21	10.35	12.36	10.20	13.77	
					Comanche	Harper	Summer	Cowley	Chautauqua	Montgomery	Labette	Cherokee	
					2.11	1.86	2.75	6.68	9.30	9.45	17.08	13.25	