Climatological Data for July, 1909.

DISTRICT No. 6, MISSOURI VALLEY.

J. WARREN SMITH, District Editor.

SUMMARY.

Heavy rains caused much damage by floods in the lower Missouri Valley during July, but over most of this district the weather of the month was favorable for harvesting and the advancement of crops.

In Montana rainfalls of 1 inch in twenty-four hours are comparatively rare, but there were numerous instances of rains greatly exceeding this amount during this month. The fall over the greater part of the State was so much above the normal for July, that the usual irrigation of crops was almost entirely dispensed with.

Except some damage by hail the weather in North Dakota was very favorable for the growth of crops and for harvesting. There was very little rust reported in alfalfa. A very large yield of grain was assured at the close of the month.

Some damage was done on lowlands in the southeastern part of South Dakota by excessive rains near the first of the month, and damage was done by hail and wind in Beadle and adjacent counties on the 30th. The sunshine was generally ample. There have been but six Julys in the past nineteen years in which the average precipitation for the State has been greater than this year.

The temperature averaged from 1° to 3° above the July normal in most of Wyoming, while the rainfall was in the form of showers and was unevenly distributed. The sunshine was nearly 80 per cent of the possible amount.

The mean temperature for the month was unusually high in Colorado, but this was due to a succession of moderately hot days, rather than to unusually high maximum temperatures. There were frequent and occasionally heavy thunderstorms, while the sunshine in the eastern part of the State averaged 82 per cent of the possible amount.

In most of the western third of Nebraska the rainfall was from one-half to two-thirds of the normal amount, while in eastern counties it was much above the normal. But as more than half of the monthly fall in the region where the rainfall was excessive occurred in three or four successive days in the early part of the month, a large proportion ran off and a relatively small proportion was available for the growth of vegetation. There was some damage by floods in this State. Except during the first twelve days there were few of the thunderstorms with heavy rainfall which are common in July in this State.

Heavy rain fell in that part of southern Iowa that is in this district during the first decade, and much damage was done by high water. Bottom lands were flooded for the third time this season, and corn and other crops were damaged and harvesting and cultivating greatly delayed. Notwithstanding this, however, corn made rapid advancement with the more favorable weather of the last two decades and it was one of the best harvest months on record. Rain was needed at the close of the month. A tornado occurred in Cherokee County on the 11th. During the night of the 9th a flood occurred in Perry Creek which caused the death of two men in Sioux City, Iowa, and a property loss in that city of $500,000. Very heavy rains in the watershed of this stream caused it to rise to a point that has not been exceeded in forty years, and to overflow sixty blocks of residence property, nearly all the railroad and wholesale district and a large part of the retail district of Sioux City.

The month was warm in Kansas and there was a large percentage of sunshine. The rainfall was below the normal in the western part of the State, but very heavy rains with damaging floods occurred in eastern counties. The rainfall of 18.67 inches which occurred at Osage City was the greatest monthly fall ever recorded in this State.

The rainfall was much above the normal in Missouri and serious loss resulted from the floods of the Missouri and its tributaries. The loss of crops and cattle, and damage to railroads and other property was especially heavy in the counties of Harrison, Gentry, Daviess, Livingston, Carroll, and Chariton. The Missouri River passed the flood stage at Glasgow on the 6th, Boonville on the 7th, and Hermann on the 9th. It reached 28.9 feet at Glasgow on the 11th, 28.3 feet at Boonville on the 13th, and 26.1 feet at Hermann on the 14th. It remained above the flood stage fifteen days at Glasgow and Boonville and ten days at Hermann.

The Mississippi River passed the flood stage at St. Louis on the 11th, reached 35.5 feet on the evening of the 16th, and was above the flood stage eleven days. The water was the highest at the places mentioned above ever recorded in the month of July. Railroad traffic was at a standstill for several days as tracks were under water or washed away. The Missouri Pacific Railway Company, states that the damage to their property amounted to $10,949, the Chicago, Burlington and Quincy Railroad Company, to $86,000, and the Missouri, Kansas and Texas Railway Company, $10,373. The Chicago and Alton Railroad Company had their traffic suspended nine days, while the Rock Island lines were heavy losers.

It is estimated that the loss of and damage to property such as railroads, live stock, farm buildings, and farm machinery amounted to about $700,000, and the value of crops destroyed was about $5,500,000. The Missouri and Grand rivers were out of their banks in places from 1 to 10 miles, and it is estimated that about 700,000 acres, 400,000 of which were under cultivation, were inundated. The total area submerged along the Missouri and its tributaries, below Kansas City and along the Mississippi between Hannibal and Chester was approximately 1,000,000 acres, more than half of which was under cultivation. A number of towns and villages were wholly or partly inundated.

The Secretary of the State Board of Agriculture estimates that 7.6 per cent of the corn crop was lost by the flood, and the loss of wheat 7 per cent by the flood and 4.8 per cent by damage in the shock. The flood warnings issued by the Bureau were made far enough in advance to allow the moving of much wheat, etc., to high ground. It is estimated that these warnings were instrumental in saving property valued at $1,000,000. So far as known only four lives were lost in this flood.

Except the damage by the floods the weather during the month was very favorable to crops in Missouri. The growth of corn was very luxurient. Wheat harvest progressed well, and oats were promising at the close of the month. The excessive rains caused a decrease in the yield of the second crop of alfalfa.

The temperature was below the normal in nearly all counties near the Missouri River and on its eastern and northern watershed, but it was above the normal over the plains and mountains in the southwestern part of this district. The extremes of temperature were about as usually recorded during this month, and there were no long periods of unusually warm or cool weather.

The rainfall was above the normal in most mountain sections, and much above the normal in the lower Missouri Valley. There were four well defined rainy periods in Montana: from the 3d to 7th, 9th to 11th, 19th to 21st, and 25th to 28th. The heaviest rainfall was immediately to the east of the continental divide. Unusually heavy showers occurred over a large part of this State on the 26th and 27th.

Showers were frequent in North Dakota, but were not generally excessive. In South Dakota showers were of rather frequent occurrence from the 4th to 14th, inclusive, and were heavy

enough in a few southeastern counties to cause some damage to lowlands.

The rainfall came in the form of summer showers in Wyoming and was unevenly distributed, as was also the case over the plains region of Colorado. In Nebraska the average precipitation for the month was slightly above normal, but an unusually large amount of the rain fell during the first twelve days. The hardest storm of the month in this State occurred on the 4th and 5th, in the eastern counties. At York, in the Blue River Valley, 5.24 inches of rain fell between 5:45 and 7:00 p. m. and 6.90 inches in less than twelve hours on the 4th..

Showers were frequent in Iowa from the 3d to the 12th, and were heavy with unusually low temperature from the 3d to the 7th. After the 12th the weather changed from wet and cool to comparatively dry and warm. The rainfall was generally deficient in western Kansas, but was very greatly in excess in the eastern part of the State. Daily rains occurred from the 6th to the 12th and during the latter part of the month. The excessive falls were mostly on the 6th or 7th.

In Missouri the average monthly precipitation for the State was 6.41 inches, and, with the exception of 1895 and 1905, was the heaviest during July for the past twenty-seven years. From the 5th to the 14th and during the last week of the month showers were of almost daily occurrence, particularly in the northern counties. On the 5–6th and 7–8th the rains were phenomenally heavy In Green, Bates, and Nodaway counties, 6 inches or more of rain fell in twenty-four hours, and in Harrison County the fall was over 10 inches.

Some damage was reported by hail in Montana, South Dakota, Nebraska, and Missouri. The prevailing wind was from the westerly in Montana and Wyoming, but from the south or southeast in other parts of the district. The highest wind velocity reported was 69 miles an hour from the northwest at Huron, S. Dak., on the 30th. The sunshine was generally up to the normal, and the amount was usually large in eastern Colorado.

Severe wind storms occurred in South Dakota, on July 30, and in Iowa on the 11th.

TEMPERATURE.

The temperature was below the normal in western and northern Montana, North Dakota, most of South Dakota, eastern Nebraska, western Iowa, north-central Kansas, and northern and eastern Missouri. It was above the normal in southeastern Montana, Wyoming, southwestern South Dakota, most of central and western Nebraska, western and eastern Kansas, and eastern Colorado.

Maximum temperatures of 100° or over were recorded in all of the States except North Dakota, Iowa, and Colorado. The highest reported in the district was 110° at Basin and Gillette, Wyo., on the 17th. The lowest temperature reported was 24° at Nye, Mont., on the 12th. Temperatures below freezing were recorded in the mountain districts of Montana, Wyoming, and Colorado. A minimum of 40° or lower was reached sometime during the month in North Dakota, South Dakota, and Nebraska, and of 50° or lower in the other States in the district.

PRECIPITATION.

The rainfall was above the normal except in North Dakota, northwestern Nebraska, and part of western Kansas. The greatest monthly fall was 18.67 inches at Osage City, Osage County, Kans. The rainfall was 15.25 inches at Amoret, Bates County, Mo., 12.20 inches at Mount Ayr, Ringgold County, Iowa, and 8.75 inches at Lone Tree, Choteau County, Mont. The greatest rainfall in twenty-four consecutive hours, was 10.71 inches at Bethany, Harrison County, Mo., on the 5–6th. It was nearly 7 inches at York, Nebr., on the 4th and 5th, and over 6 inches at Allerton, Iowa, on the 6th, and Amoret, Mo., on the 7th.

TABLE 1.—*Climatological data for July, 1909. District No. 6, Missouri Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Wyoming.																				
Arapahoe [a]	Fremont										0.62		0.49	0.0	3	1	28	1		David Malloy.
Barnum	Johnson	5,500	4								0.99		0.40	0.0	4	22	9	0	w.	Thos. Freeguard.
Basin	Big Horn	3,862	10	75.2	+ 0.8	110	17	48	12†	50	0.77	+ 0.44	0.50	0.0	3	22	6	3	nw.	O. J. Robertson.
Bennett	Carbon										2.04		0.54	0.0	5	25	3	3	sw.	Chas. C. Young.
Cheyenne	Laramie	6,088	38	68.0	+ 0.6	93	17	44	13	37	1.08	− 0.91	0.39	0.0	6	17	14	0	s.	U. S. Weather Bureau.
Cheyenne Exp. Farm	do	6,000	3								0.97		0.38	0.0	7	10	21	0		Irrigation Inves. Office.
Chugwater	do	5,282	8	68.0		94	17	30	10†	50	1.40	− 0.05	0.60	0.0	3	21	10	0	w.	George Milne.
Clark	Big Horn	4,320	4	70.7		100	18	49	13†		1.55		0.87	0.0	7	18	11	2	n.	Chas. A. C. Snow.
Crystal Lake Reservoir	Laramie	6,900		63.8		88	17	35	13	46	2.50		1.00	0.0	6	9	19	3	sw.	L. E. Jenson.
Douglas	Converse	4,793		73.1		101	17	47	29	39	0.41		0.26	0.0	6					Henry C. Miller.
Dubois	Fremont	6,909	3	60.2		86	17	35	29	46	0.56		0.41	0.0	3	17	8	6	w.	Dr. F. H. Welty.
Eaton's Ranch	Sheridan	4,600	4	69.0		95	17	44	12†	39	0.66		0.45	0.0	4	23	8	0	nw.	F. A. Eaton.
Echeta	Crook										1.97		0.87	0.0	3	24	7	0	n.	M. R. Hunter.
Elk Mountain	Carbon		4								1.47	− 0.22	0.75	0.0	6					Wm. Richardson.
Encampment	do	7,322		65.2		87	3†	41	13	40	2.15		0.80	0.0	7	23	3	5	sw.	U. S. Forest Service.
Ervay	Natrona			66.0		92	2	36	8†	44	0.84		0.35	0.0	5	22	7	2	sw.	Frank Jameson.
Filmore	Albany	7,527	3								1.44	− 0.34	0.90	0.0	3					Jas. Dougherty.
Fort Laramie	Laramie	4,270	32	72.4	− 0.6	100	17	43	13†	51	0.38	− 1.07	0.29	0.0	2	24	7	0	ne.	John Hunton.
Gillette	Crook	4,546	3	69.5		110	17	46	12†	45	2.92		1.10	0.0	6	23	5	3		S. D. Perry.
Granite Canyon	Laramie	7,373	4	62.6		88	17	35	13	41	2.09		1.00	0.0	8	25	4	2	s.	Wm. Boyce.
Hunter's Station	Johnson	8,000	3	56.9		82	16	32	14	42	0.77		0.34	0.0	7	22	8	1	w.	August Hettinger.
Hyattville	Big Horn	4,632	10	70.3	+ 0.6	99	17	37	12	44	0.07		0.05	0.0	2	22	7	2		Wm. Booth.
Independence	Natrona			65.6		96	18	35	26	55	1.05		0.40	0.0	3	20	9	2	sw.	Henry D. Schoonmaker.
Kaycee	Johnson		8	73.6		104	3	40	13	50	2.10	+ 0.72	0.47	0.0	5	24	7	0	sw.	A. Grigg.
Kirtley	Converse		5	68.2		95	17	40	13	42	0.49	− 0.92	0.34	0.0	2	27	3	1	s.	D. M. Zum Brunnen.
Kirwin	Big Horn	9,187	1	52.6		75	1†	31	21	35	1.94		0.75	0.0	9	18	9	4	w.	C. L. Tewksbury.
Knowles	Crook										2.32		0.72	0.0	10					G. A. Knowles.
Lander	Fremont	5,372	17	68.5	+ 0.5	96	2	41	8	48	0.31	− 0.55	0.16	0.0	4	16	14	1	sw.	U. S. Weather Bureau.
Laramie	Albany	7,188	18	65.0	+ 2.7	90	17	42	8	42	1.00	− 0.55	0.40	0.0	6	21	4	6	s.	University of Wyoming.
Leo [b]	do	6,878	8	64.1		90	17	34	13	49	0.44	− 0.11	0.20	0.0	4	21	6	2	w.	C. A. Cowdin.
Lolabama Ranch	Big Horn	7,052	6	57.6		88	17	30	12†	49	1.40	+ 0.13	0.80	0.0	4	19	12	0	w.	Mary E. Painter.
Lovell	do		4	70.4		102	17	43	13	50	0.67		0.29	0.0	5	18	7	6	n.	R. Fred Harrison.
Lusk	Converse	5,007	19	70.8	+ 2.6	95	24	43	27	43	0.75	− 0.74	0.75	0.0	1					D. E. Goddard.
Luther	Laramie										2.15		0.81	0.0	4					Henry D. Colburn.
Manville	Converse	5,050									0.81		0.40	0.0	6	27	4	0	se.	C. A. Sherman.
Moorcroft	Crook	4,211	6	70.3		104	18	41	13	52	0.94	− 0.59	0.60	0.0	2	25	6	0		Jas. K. Somers.
Moore [d]	Albany	6,000	8	65.6		91	17	38	22	46				0.0		16	11	0	w.	Edwin Moore.
Newcastle	Weston	4,319	2	72.6		101	17†	44	22	39	2.06		1.31	0.0	6	18	13	0	nw.	Dr. S. W. Johnson.
Pathfinder	Natrona	5,735	3	70.6		98	17	45	13	45	0.40	− 0.55	0.22	0.0	3	23	6	2		U. S. Reclamation Service
Phillips	Laramie	4,900	6	69.4		93	18	41	22	43	4.22	+ 1.89	1.41	0.0	6	23	7	1	w.	Mrs. Arthur Rugg.
Pine Bluff	do	5,038	9	71.1	+ 2.7	97	2	43	11†	43	0.59	− 1.99	0.29	0.0	3	20	11	0	se.	C. W. Johnson.
Powell	Big Horn	4,376	2	71.0		100	17	46	12†	41	0.29		0.13	0.0	4	16	15	0	w.	U.S. Reclamation Service
Riverton	Fremont		2																	Robert P. Quest.
Saratoga	Carbon	7,300	12	64.3	− 1.4	88	8†	40	16	44	1.19	+ 0.18	0.59	0.0	6	23	6	2	ne.	Supt., S. & E. R. R.
Sheridan (1)	Sheridan	3,790	14	68.0	+ 0.7	97	17	42	12	48	0.90	+ 0.12	0.68	0.0	7	18	9	4	nw.	U. S. Weather Bureau.
Sheridan (2)	do	3,738	14	66.6	− 0.7	95	17	40	13	49	0.96	+ 0.18	0.47	0.0	3	16	15	0	se.	U. S. Reclamation Service
Shoshone Dam	Big Horn	5,385	3	69.2		100	17	37	19	52	1.17		0.71	0.0	6	14	16	1	w.	Geo. Brundage.
Soldiers' Home	Johnson	4,635	17	70.4	+ 2.3	97	17	42	12	40	0.96	− 0.15	0.55	0.0	5	16	15	0	nw.	Geo. L. Courtney.
South Pass City	Fremont			57.6		84	2	30	13†	46	1.25		0.54	0.0	6	17	9	5	sw.	John Sherlock.
Thermopolis	do	4,350	7	72.6		104	17	42	12†	52	0.04		0.04	0.0	1	20	11	0	sw.	A. L. Duhig.
Upton	Weston										2.12		1.04	0.0	3	17	10	4	ne.	G. E. McPherren.
Valley	Big Horn	6,500									2.24		0.75	0.0	9	18	12	1	w.	Jas. L. McLaughlin.
Verona	Sheridan										1.00		0.50	0.0	3	11	19	1	se.	O. A. Roode.
Wiley	Big Horn	5,375		68.6		97	17†	42	12	40	1.68		0.90	0.0	8	15	12	4	w.	C. D. Marshall.
Wyncote	Laramie	4,207	2	71.2		95	17	44	22	41	0.82		0.40	0.0	3	23	6	2	e.	U.S. Reclamation Service
Yellowstone Park	National Park	6,200	22	60.8	− 0.8	88	2	36	12	40	1.85	+ 0.59	0.42	0.0	12	14	8	9	sw.	U. S. Weather Bureau.
(1) Fountain	do			58.2		87	1†	25	12	56	1.83		0.38	0.0	6	20	6	5	s.	U. S. Army.
(2) Grand Canon	do							27	12		3.20		0.60	0.0	10	15	1	13	nw.	Do.
(3) Lake Hotel	do	7,733	5	53.8		89	2	26	12	48	2.63		0.67	0.0	8	23	4	4	s.	Do.
(4) Norris Geyser	do	7,525	5	54.4		84	1†	26	12†	49	2.25		0.55	0.0	9	15	11	5	s.	Do.
(5) Riverside	do	6,500	3	56.8		88	1†	27	12	54	1.81		0.50	0.0	11	15	14	2	s.	Do.
(6) Soda Butte	do	7,000	4	56.5		88	1	26	12	54	0.80		0.45	0.0	2	21	4	6	sw.	Do.
(7) Sylvan Pass	do	7,000	2	55.8		89	22	31	12†	55	2.11		0.72	0.0	5	19	5	6	sw.	Do.
(8) Thumb [c]	do			53.6		82	16	29	8†	48	2.47		0.75	0.0	6	18	5	3	n.	Do.
(9) Tower Falls	do			59.0		90	1	30	12	54	0.55		0.30	0.0	2	17	9	5	sw.	Do.
(10) Upper Basin	do	7,395	5					29	12		1.10		0.60	0.0	2	23	4	4	sw.	Do.
Montana.																				
Adams	Dawson		1	67.3		97	16	40	15	43	3.32		1.23	0.0	8	11	10	10	nw.	W. B. Ennis.
Adel	Cascade	5,200	11	61.6	+ 1.4	89	16	37	13†	41	5.74	+ 3.68	1.63	0.0	10	14	8	9	w.	B. F. Burch.
Agricultural College	Gallatin	4,700	10																	Prof. E. Burke.
Augusta	Lewis & Clark	4,071	10	60.4	− 1.8	89	1	35	14†	46	5.51	+ 3.56	2.28	0.0	5	23	5	3	w.	C. C. Covington.
Babb	Teton	4,461	4	56.4 [e]		83 [e]	1†	30 [e]	14†	44 [e]	6.06		2.23	0.0	5				sw.	U. S. Reclamation Service
Bald Butte	Lewis & Clark	6,500									2.45		0.80	0.0	11	18	6	7		M. W. Alderson.
Big Creek	Park	5,800									1.39		0.55	0.0	8	9	20	2		Peter Vink.
Big Timber Creek	Sweetgrass	4,070		68.6 [e]		101	1	41	14	48	1.24		0.50	0.0	8	14 [e]	12	0		
Billings	Yellowstone	3,115	15	70.0	− 1.6	105	1	39	14	53	2.16	+ 1.27	0.82	0.0	7				sw.	U. S. Weather Bureau.
Boulder Nursery	Jefferson		16	60.0 [a]	− 2.7	93 [a]	1	33 [a]	14	50 [a]	3.20	+ 2.05	0.81	0.0	10	13	13	5		R. H. Spencer.
Bowen	Beaverhead	6,060	3	55.7		88	2†	26	12	57	2.31		1.33	0.0	13	15	9	7		B. B. Lawrence.
Bridger	Carbon	3,664	1	71.2		105	16	44	12	54	0.80		0.36	0.0	5	12	16	3	n.	L. E. Gard.
Broadview Exp. Sta.	Yellowstone		3	67.4		100	16	36	14	53	1.90		1.01	0.0	9	22	7	2	nw.	Thos. S. Hunt.
Browning	Teton	4,440									2.11		0.51	0.0	6	18	6	7	w.	Thos. B. Magee.
Busby	Rosebud		6																	
Busteed	Sweetbrass		2	66.2		95	1	39	14	47	1.67		0.50	0.0	6	14	16	1	nw.	T. H. Busteed.
Butte	Silver Bow	5,716	16	63.4	0.0	92	1	40	21	36	3.50	+ 2.17	1.10	0.0	9	17	3	11	w.	J. R. Wharton.
Canyon Ferry	Lewis & Clark	3,644	11	67.2	− 0.7	94	2	45	8†	43	2.47	+ 9.95	0.81	0.0	12	21	7	3	nw.	A. C. Pratt.
Cascade	Cascade	7,336	6	66.0		94	1	40	14	48	4.40		1.37	0.0	14	23	6	2	sw.	E. E. James.
Cataract Creek	Jefferson	7,000									4.85		1.60	0.0	13	15	13	3	w.	Fred Gerdes.
Cheesman Res.	Lewis & Clark	5,275	1	57.4		85	1	35	14	36	3.15		1.00	0.0	10	24	3	4	calm	Chas. D. Schmidt.
Chester	Chouteau	3,140	6	67.8		92	18	40	27	44	1.54		1.00	0.0	5	29	10	1	w.	B. B. Weldy.
Chinook	do	2,502	13	67.7 [d]	− 2.2	92 [d]	1†	45 [d]	14†	37 [d]	2.87	+ 1.41	0.84	0.0	7	19	8	4	w.	Thos. O. Hanlon Co.
Chouteau	Teton	3,810	4	63.2		88	16†	38	8†	43	4.90		2.30	0.0	3	20	3	8		H. Van De Reit.
Clear Creek	Chouteau		4	64.4		92	16	40	15	33	3.96		0.98	0.0	10	18	10	3	w.	C. Sedgwick.
Clemons	Lewis & Clark	4,672									5.91		2.46	0.0	9	18	6	7	w.	Frank Eberl.
Columbus	Yellowstone	3,160																		O. F. Wilkinson.
Copper	Meagher										3.00		0.70	0.0	12	17	9	5	w.	Orville Harris.
Crow Agency	Rosebud	3,041	29	71.2	+ 0.3	101	1	40	14	47	0.69	− 0.52	0.31	0.0	5	27	3	1	nw.	F. E. Server.
Culbertson	Valley	1,927	9	70.8		100	18	45	29	41	3.83		1.22	0.0	7	6	19	6	nw.	G. H. Coulter.

TABLE 1.—*Climatological data for July, 1909. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Montana—Cont'd.																				
Cut Bank	Teton	3,700	11	63.8	+ 3.2	90	23†	40	13†	41	4.06	+ 2.16	2.23	0.0	4	19	8	4	w.	Chas. N. Thomas.
Decker	Rosebud	3,400	5	65.4		100	15	36	4	59	T.		T.	0.0	0					Adam Anderson.
Deep Creek	Broadwater	4,200									2.79		0.91	0.0	7					Mrs. D. W. Maryott.
Delphine	Meagher	5,000									3.86		1.42	0.0	14	12	15	4	w.	Tracy L. Holliday.
Denton	Fergus		2	6.39[e]		91[e]	16	42[e]	14	36[e]	5.46		1.30	0.0	14	20	8	3	nw.	R. M. Chamberlain.
Dillon	Beaver Head	5,147	12	66.4	+ 2.4	90	1	41	28	36	3.78	+2.60	1.14	0.0	13	14	12	5	sw.	J. E. Monroe.
Dirty Creek	Meagher	6,000									4.82		1.37	0.0	14	17	6	8	w.	Lewis Cameron.
Dry Creek	Broadwater	5,500									4.10		1.22	0.0	10	16	9	6	sw.	J. C. Stuart.
Dry Wolf Camp	Cascade	6,000									2.22		0.63	0.0	12	12	7	12	sw.	Mrs. R. J. Eveleth.
East Gallatin River	Gallatin	6,300									2.36		0.99	0.0	7	18	13	0	w.	John Eberhart.
Ekalaka	Custer		8	69.2		100	17	38	14	43	2.25		0.90	0.0	7	23	6	2	w.	W. Freese.
Elkhorn	Jefferson	6,576									2.05		0.50	0.0	18	8	22	1	sw.	J. W. Skelton.
Evans	Cascade	4,900																		H. Thrasher.
Fallon	Custer	2,208	5	70.6		99	18	45	14†	43	2.26		1.13	0.0	5	14	12	5	w.	Mrs. A. C. Gifford.
Family	Teton	3,950	1	65.0[e]		99[e]	2	33[e]	19	51[e]	4.96		3.04	0.0	4	23	3	5	w.	U. S. Reclamation Service
Fish Creek	Silver Bow	8,500																		O. B. Tilton.
Fish Tail Creek	Carbon	5,000									1.56		0.37	0.0	10	14	16	1	e.	O. E. Haskin.
Flathead Creek	Gallatin	6,000																		L. G. Brown.
Forsyth	Rosebud	2,514	3	73.3[a]		106[a]	1	44[a]	15	46[a]	2.49		1.10	0.0	6	11	18	2	sw.	Thos. M. Patterson, jr.
Fort Benton	Chouteau	2,630	30								3.86	+ 2.21	0.92	0.0	12					River Observer.
Fort Shaw	Cascade	3,500	21	66.0[a]	− 2.3	92	16	40[a]	14	41[a]	3.53	+ 2.47	0.98	0.0	8	9	19	3	se.	U. S. Reclamation Service
Fort W. H. Harrison	Lewis & Clark	4,004	6	66.4		99	4	44	21	43				0.0		21	10	0	s.	Post Hospital.
Foster	Yellowstone		1	71.8		105	1	43	14	50	0.97		0.22	0.0	10	15	14	2	w.	E. K. Bowman.
Garnell	Fergus	5,500	1	58.0		85	16†	34	14	39	3.09		0.66	0.0	14	16	7	8	e.	J. E. Scally.
Glendive	Dawson	2,069	20	71.8	− 0.3	100	17	47	13	38	4.17	+ 2.39	1.64	0.0	8	17	9	5	nw.	W. B. Walker.
Goldbutte	Chouteau		4	64.0		92	16†	40	8	38	3.48		1.00	0.0	8	12	17	2	sw.	J. T. Berthelote.
Graham	Custer		4	70.8		100	18	41	14	49	1.55		0.90	0.0	3	10	13	8	nw.	J. S. Rue.
Grayling	Gallatin	6,700	6	54.3[d]		82[d]	1†	26[d]	21	50[d]	1.74		0.44	0.0	9	13[d]	11	3	sw.	P. Kerzenmacher.
Great Falls	Cascade	3,350	18	67.6	− 0.2	92	16	47	8†	37	5.45	+ 3.79	1.03	0.0	13	20	9	2	sw.	S. H. Bauman.
Half Moon Pass	Fergus	6,500																		Thos. Stigen.
Half Way House	Broadwater	6,000									3.94		1.10	0.0	14	16	10	5	ne.	Gordon Deans.
Harlowton	Meagher	4,165	2	64.1		96	1	40	29	47	2.44		1.05	0.0	3	9	11	11	w.	Jos. Muir.
Hassel	Broadwater	5,200									3.84		0.96	0.0	13	6	18	7	sw.	E. C. Albrecht.
Havre	Chouteau	2,505	29	67.4	− 0.5	94	16	47	14	38	3.88	+ 1.99	1.36	0.0	14	19	7	5	e.	U. S. Weather Bureau.
Helena	Lewis & Clark	4,110	30	65.6	− 1.4	95	16	46	21	41	1.84	+ 0.69	0.78	0.0	9	17	9	5	sw.	U. S. Weather Bureau.
Highwood	Chouteau										5.29		1.02	0.0	14	17	5	9	ne.	W. S. McCord.
Home Park	Madison										2.38		0.81	0.0	9	24	7	0	e.	H. L. Miller.
Huntley	Yellowstone	3,014	4	71.9		103	1†	42	14	51	1.33		0.82	0.0	3	14	17	0	e.	U. S. Reclamation Service
Jones Canyon	Gallatin	6,800									2.45		1.00	0.0	14	10	21	0	w.	Jas. McCune.
Jordan	Dawson		5	70.5		103	1	45	15	48	4.71		1.54	0.0	8	17	2	12	nw.	W. S. Henderson.
Kleinsmith Creek	Jefferson	6,000									2.81		0.77	0.0	11	12	19	0	w.	Mrs. E. W. Mills.
Lewistown	Fergus	4,010	12	63.7	− 0.5	94	16	37	13	47	4.20	+ 1.50	1.45	0.0	8	17	11	3	e.	W. W. Watson.
Livingston	Park	4,488	11	68.6	+ 0.7	100	1	41	13	48	1.68	+ 0.52	0.48	0.0	8	18	6	7	sw.	Lewis Terwilliger.
Lodge Pole Creek	Sweetgrass	5,700									1.85		0.70	0.0	5	18	10	3		F. G. White.
Lone Tree	Chouteau		5	66.2		95	16	45	14	40	8.75		2.70	0.0	9	21	7	3	w.	E. Wilson.
Lost Horse Creek	Meagher	5,800									2.27		0.47	0.0	15	10	13	8	w.	C. M. Mason.
Lubec	Teton	5,046	1																	
Malta	Valley	2,240	3	68.8		95	16†	43	15	41	1.25		0.28	0.0	9	18	10	3	w.	U. S. Reclamation Service
Meadow Creek	Madison	6,700																		F. E. Parent.
Melstone	Fergus	2,903									2.35		0.80	0.0	8					E. J. Parkinson.
Mildred	Custer										1.67		0.62	0.0	5	19	11	1	se.	Leon B. Clark.
Miles City	do	2,371	15	74.6	+ 1.6	105	1	49	15	40	2.63		0.93	0.0	9	17	13	1	ne.	U. S. Weather Bureau.
Mill Creek	Park	5,500									0.75		0.25	0.0	5	19	9	3	sw.	W. H. Edick.
Moore	Fergus										3.06		0.88	0.0	7	18	7	6	w.	Clyde Grove.
Mudd Creek	Deer Lodge										2.67		1.44	0.0	10	12	13	6	w.	Emery Mudd.
Norris	Madison	4,845	3	67.6		96	1	35	12	45	2.34		0.60	0.0	8	12	3	16	s.	Madison River Power Co
Nye	Sweetgrass		1	59.0		88	1	24	12	44	2.19		0.53	0.0	12	18	8	5	sw.	F. L. Bryant.
Olsen Creek	Jefferson	6,345									3.03		0.68	0.0	10	20	6	5	w.	Robt. Olsen.
Pipestone Pass	Jefferson	7,000									3.39		1.15	0.0	13	12	17	2	w.	Mrs. Theola Kiermeyer.
Poplar	Valley	2,020	25	70.3	+ 0.6	97	1†	41	15	39	2.08	+ 0.46	0.68	0.0	5	22	5	4	e.	H. M. Cosier.
Raymond	Teton	4,260	2	62.7[a]		96[a]	5	36[a]	14†	50[a]	6.15		2.00	0.0	8	19	5	7	w.	W. H. Campbell.
Rebers Ranch	Carbon	6,000																		E. A. Reber.
Red Lodge	do	5,548	9	62.2		91	18	38	14	39	1.08	− 0.33	0.40	0.0	8	19	10	2	se.	I. A. Draper.
Reese Creek	Gallatin	5,000									2.25		0.63	0.0	9	19	3	9		Henry Cramer.
Renova	Jefferson	4,383	11	64.1	− 1.7	94	1	39	14	48	3.16	+ 2.06	0.85	0.0	13	16	9	6	sw.	F. B. Elmer.
Rimini	Lewis & Clark	7,900									3.60		1.32	0.0	10	18	10	3	w.	Milo Brooks.
Ryegate	Yellowstone	3,640									2.01		1.12	0.0	7				w.	H. W. Scherfenberg.
Sedan	Gallatin	3,155	2	60.8		90	1	36	14	43	2.44		0.48	0.0	12	16	14	1	nw.	Jas. Woosley.
Springbrook	Dawson		8	68.6		99	1	41	15	42	3.38		1.21	0.0	6	17	10	4	w.	Mrs. H. L. Miller.
Stearns	Lewis & Clark	4,500									5.14		2.45	0.0	7	15	12	4	w.	Jas. W. Hargrove.
Tokna	Dawson	2,050	4	70.0		100	25	40	16	47	1.69		0.55	0.0	6	17	12	2		U. S. Reclamation Service
Toston	Broadwater	3,950	8	64.2		93	16	38	14	46	2.75		1.10	0.0	8					W. H. Little.
Townsend	do	3,790									4.15		1.20	0.0	7					River Observer.
Trail Creek	Park	6,000									1.65		0.50	0.0	11	16	10	5	w.	Andrew Weidenbauer.
Utica	Fergus	5,000	16	62.6	− 2.0	91	1	40	28	38	4.97	+ 2.74	1.24	0.0	10	22	4	5	w.	P. W. Korell.
Valentine	do		3	67.5		97	16	39	14	46	2.35		0.83	0.0	11	22	2	7	w.	B. M. Bean.
Virginia City	Madison	5,880	21	64.0	− 1.5	94	1	37	12	38	1.81	+ 0.45	0.23	0.0	14	12	14	5	s.	Francis Mailand.
Wall Rock Mountain	Broadwater	5,600									2.71		0.62	0.0	9	23	7	1		D. L. Doig.
Warm Springs Creek	Madison	7,500	1	52.0		72	25	34	12†	30	2.57		0.55	0.0	16	9	10	12	sw.	M. D. Lytle.
West Rosebud Creek	Carbon										1.32		0.33	0.0	11	14	14	3		C. P. Whitten.
Willow Creek	Park	9,000									1.73		0.70	0.0	6	13	18	0	w.	John Topp.
Wolf Creek	Lewis & Clark	4,000	6	66.4		94	16	40	14	47	2.26		0.86	0.0	6	21	4	6	w.	A. W. Varharen.
Wolf Point	Valley	1,995									2.22		0.48	0.0	8					River Observer.
Woodville	Jefferson	6,376									2.84		0.83	0.0	14	13	9	9	sw.	Anna Kinman.
North Dakota.																				
Aplin	Oliver		2	67.1[b]		95[a]	18	43[b]	14	41[b]	1.08		0.32	0.0	6	16	12	3	n.	J. B. Haselbarger.
Beach	Billings	2,759	2	66.6		92	18	43	15	39	2.36		0.88	0.0	9	12	15	4	se.	D. J. Steiner.
Berlin	La Moure	1,470	16	66.7	+ 0.1	96	19	45	16	38	5.52	+ 2.45	2.40	0.0	11	17	6	8	nw.	N. S. French.
Berthold Agency	McLean	2,082	12	68.4	− 1.0	95	18	46	23	42	1.18	− 0.90	0.48	0.0	9	21	6	4	e.	C. L Hall.
Bismarck	Burleigh	1,674	34	69.5	− 0.7	94	18	48	16	35	2.41	+ 0.27	0.64	0.0	11	14	10	7	nw.	U. S. Weather Bureau.
Bronceo	Mercer		1	66.1		93	18	42	13	34	0.41		0.30	0.0	5	7	20	4	se.	E. M Walker.
Buford	Williams	1,944	3	68.4		92	25	48	29	36	1.68		0.63	0.0	5	22	5	4	se.	G. O. Sanford.
Coal Harbor	McLean	1,901	12																	F. H. Childs.
Dickinson	Stark	2,453	16	67.0	− 1.0	93	19	46	13†	37	1.89	− 0.29	0.67	0.0	12	12	13	6	nw.	L. R. Waldron.
Edgeley	Lamoure	1,468	7	67.8		98	19	47	3†	36	3.04		1.86	0.0	9	12	4	15	se.	O. A. Thompson.
Ellendale	Dickey	1,449	16	69.2	− 1.5	99	19	47	16	35	2.68	+ 0.20	0.68	0.0	12	14	3	14	nw.	U. S. Weather Bureau.

TABLE 1.—*Climatological data for July, 1909. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
North Dakota—Cont'd.																				
Epping	Williams		1								1.44		0.29	0.0	10	9	15	7	se.	J. J. Wilson.
Fullerton	Dickey	1,439	10	67.8	+ 0.3	97	19	47	16	34	5.22	+ 2.10	3.49	0.0	8	14	12	5	se.	F. O. Alin.
Haley	Bowman		1	67.5		97	18	42	15	45	1.93		0.45	0.0	12				nw.	Myra Hart.
Hettinger	Adams	2,253	2																	F. E. Ellickson.
Howard	Williams	2,275	2	67.0		94	18	45	15†	37	0.74		0.33	0.0	6	8	16	7	se.	C. B. Amsbaugh.
Jamestown	Stutsman	1,390	21	66.8	− 1.8	96	19	42	9	38	5.21	+ 2.61	1.43	0.0	12	6	14	11	se.	L. B. Baldwin.
Kulu	Lamoure	1,966	4																	J. F. Brenckle.
Lamoine	Kidder		1	66.5		90	20	44	10	38	3.77		1.28	0.0	6	9	16	6	se.	E. V. Virgin.
Lamoure	Lamoure	1,307	2								3.66		1.57	0.0	11					A. H. Ormsby.
Manfred	Wells			67.8		92	20	45	3	37	2.78		0.87	0.0	6	13	16	2	se.	
Marmarth	Bowman		1								2.20		0.85	0.0	12	15	9	7	s.	S. P. Crane.
Marstonmoor	Stutsman		1								5.91		2.50	0.0	4	10	16	5	se.	H. H. McCumber.
Medina	do	1,796	4	65.8		94	19	40	5	37	3.10		1.60	0.0	3	4	14	13	se.	M. Dwyer.
Medora	Billings	2,225	12	60.7	− 9.6	96	30†	34	4†	52	2.98	+ 0.96	1.90	0.0	6	15	9	7	e.	J. W. Hesser.
Melville	Foster	1,590	11	67.5[d]	+ 0.6	90[d]	20	46[d]	12	37[d]	2.66	− 0.20	1.03	0.0	6					J. P. Kidder.
Mott	Hettinger		2	67.7		94	18	42	13	38	4.33		2.26	0.0	10	14	6	11	se.	O. H. Opland.
Napoleon	Logan	1,955	17	66.8	− 1.6	97	19	40	16	42	2.62	+ 0.10	1.15	0.0	8	20	1	10	se.	C. J. Hoof.
New England	Hettinger	2,400	13	63.0	− 4.4	92	19	44	10†	42	2.78	+ 1.03	1.25	0.0	8	14	1	16	se.	W. C. McKenzie.
New Salem	Morton	2,163	2	68.4		95	18	46	14†	34	3.48		1.90	0.0	9	16	9	6	se.	J. Christiansen.
Orange	Adams		2	66.4		92	17	40	8	44	2.51		0.78	0.0	10	15	10	5	se.	J. E. Goforth.
Palermo	Ward	2,200	5																	T. A. McCann.
Steele	Kidder	1,857	13	67.4	− 1.1	95	19	45	3†	38	4.10	+ 1.39	1.45	0.0	9				nw.	B. C. Smith.
Swartwood	Bowman		1								2.07		0.37	0.0	15	19	5	7	se.	W. F. Adams.
Washburn	Mc Lean	1,731	5	67.8[a]		93[a]	17	46[a]	16	37[a]	1.93		0.66	0.0	8	10	15	6	e.	W. R. Peterson.
Williston	Williams	1,875	29	67.7	− 1.7	93	18	48	10	36	1.57	− 0.46	0.70	0.0	10	13	7	11	w.	U. S. Weather Bureau.
Wishek	McIntosh	2,010	4	67.6		93	19	45	16	33	6.14		2.25	0.0	10	17	10	4	se.	H. E. Timms.
South Dakota.																				
Aberdeen	Brown	1,300	20	69.2	− 2.0	98	19	49	16	37	4.51	+ 1.45	1.30	0.0	13	19	2	10	ne.	D. G. Gallett.
Academy	Charles Mix		21	74.3	+ 0.7	104	2	49	23	39	2.20	− 1.31	0.93	0.0	5	19	7	5	se.	I. T. Lothrop.
Alexandria	Hanson	1,352	21	72.3	− 0.4	97	18	52	23	32	1.90	− 1.46	0.72	0.0	4	20	5	6	se.	W. S. Hill.
Andover	Day	1,476				92	31							0.0	7	14	12	5	se.	E. L. Stone.
Ardmore	Fall River	3,557	1								2.09		0.90	0.0	8	23	3	5		C. G. Hurlbut.
Armour	Douglas	1,521	16	73.2	+ 0.1	102	2	51	14	47	2.77	− 0.60	1.09	0.0	11	24	3	4	sw.	J. S. Bean.
Ashcroft	Harding	3,192	18	69.2	− 0.4	96[a]	1†	42	13	40[a]	3.92	+ 2.22	1.11	0.0	7	23	7	1	ne.	Thos. AshCroft.
Belle Fourche	Butte	3,000	2	70.2		100	18	43	15	40	1.44		0.41	0.0	12	16	5	10	ne.	W. H. McGinley.
Bowdle	Edmunds	1,995	15	68.8	− 1.6	94	20	45	3	37	4.26	+ 1.64	1.20	0.0	10	18	6	7	nw.	C. T. Smithers.
Brookings	Brookings	1,636	22	69.6	+ 0.2	92	20	46	24	38	2.44	+ 0.02	1.62	0.0	7	13	10	8	s.	Prof. C. Willis.
Burke	Gregory		2	71.8		99[a]	2	51[a]	23	34[a]	3.45		1.80	0.0	4	18	6	7		James Connell.
Canton	Lincoln	1,248	14	71.4	− 0.5	100	2	51	24	35	3.69	− 0.31	1.55	0.0	9	18	7	6	se.	John H Holsey.
Cascade Springs	Fall River	3,422	2	72.6		100	18	43	22	43	1.54		0.87	0.0	3	25	5	1	se.	Fred Norenberg.
Castlewood	Hamlin	1,685	4	68.0	+ 1.3	91	20	43	23	38	3.42	+ 1.22	2.45	0.0	9	15	1	15	se.	M. N. Bradley
Centerville	Turner	1,229	5	71.4		95	2	50	23	31	5.16	+ 0.44	1.35	0.0	14	11	10	10	se.	Frank Williams.
Chamberlain	Brule	1,363	12	75.6	+ 1.1	104	2	49	4	39	1.40	− 1.28	0.41	0.0	5	12	14	5	se.	G. A. Fry.
Clark	Clark	1,779	16	67.5	− 2.3	90	20	47	16	36	5.15	+ 2.52	2.02	0.0	13	12	12	7	sw.	O. H. La Craft.
Clear Lake	Deuel	1,800	7	68.0	+ 0.4	90	17†	50	6†	40	2.37	− 1.36	1.71	0.0	3	19	7	5	sw.	L. F. Hanly.
Clifton	Sully																			H. F. Chamberlain.
Cottonwood	Stanley		1	74.1		99	18	48	13†	40	4.18		2.18	0.0	5	20	8	3	se.	S. W. Sussex.
Davison	Perkins		1	67.2		97	18	42	15	42	2.63		0.60	0.0	11	17	8	6	nw.	G. G. Davis.
Deadwood	Lawrence	4,535	1	66.0		96	18	40	14†	37	4.70		1.55	0.0	10	17	9	5		R. E. Grimshaw.
De Smet	Kingsbury	1,726	18	70.3	+ 0.1	93[d]	28	47[d]	23	38[d]	1.80	− 0.78	1.15	0.0	3	19	6	6	se.	J. O. Purinton.
Dowling	Stanley	2,250	1	72.8		102	18	48	22	36	0.65		0.45	0.0	4	24	6	1	se.	M. P. Dowling.
Dumont	Lawrence	6,195	1								3.57		1.71	0.0	9	16	12	3	sw.	A. B. Wood.
Elk Point	Union	1,127	11	74.6	+ 0.4	101[b]	2	54[b]	23	37[b]	7.13	+ 4.22	2.08	0.0	6				ne.	M. Hoffman, jr.
Ellingson	Perkins			68.3		102	18†	41	15	39	2.46		0.44	0.0	11					R. E. Sheriff.
Englewood	Lawrence	5,723	1								3.79		1.40	0.0	8	19	8	4	sw.	E. E. White.
Eureka	McPherson	1,884	1	69.2		96	19	48	15	33	2.16		0.59	0.0	11	20	5	6	se.	W. D. Griggs.
Fairfax	Gregory		7	74.7	+ 2.2	98	2†	50[c]	24	36[c]	4.85	+ 1.17	1.95	0.0	6	19	8	4	se.	J. T. Murphy.
Farmingdale	Pennington	3,000	14								1.59	− 0.73	0.50	0.0	5	21	8	2	se.	A. E. Nicholls.
Faulkton	Faulk	1,595	16	69.6	− 0.9	96	19	54	12†	32	6.19	+ 3.61	2.80	0.0	11	21	5	5	se.	Miss Belle Talcott.
Flandreau	Moody	1,565	20	68.2	− 1.4	92	20	49	32	33	2.55	− 0.43	1.27	0.0	8	16	8	7	s.	G. A. Perley.
Forestburg	Sanborn	1,231	19	71.8	+ 0.3	94	2†	50	23	36	1.83	− 0.94	0.65	0.0	5	7	15	9	se.	M. K. Judy.
Fort Meade	Meade	3,624	29	73.6	+ 1.9	98	18	50	13†	34	3.19	+ 0.93	1.00	0.0	10	16	12	3	s.	Post Surgeon.
Frederick	Brown	1,371	3	68.2		98[b]	19	45[b]	23	45[b]	4.51		2.82	0.0	8				s.	J. E. Jeffers.
Gannvalley	Buffalo		12	73.6	+ 0.2	105	2	48	23	40	2.02	− 1.81	1.10	0.0	6	13	14	4	nw.	V. P. Drips.
Greenmount	Lawrence	6,430	1								4.99		1.24	0.0	10	18	6	7	sw.	John H. Leitel.
Greenwood	Charles Mix		15	74.2	− 0.4	103	2	51	24	36	5.31	+ 1.85	3.24	0.0	5	20	4	7	se.	T. C. Williamson.
Hardy Ranger Station	Lawrence	6,600									2.62		1.20	0.0	5	28	2	1	sw.	Mrs. Mary E. Seals
Hermosa	Custer	3,349	4	70.4	+ 1.0	96	17	47	12	40	3.11	+ 0.06	1.28	0.0	7	21	7	3		S. M. Booth.
Highmore	Hyde	1,890	16	71.6	− 1.5	102	19	40	12	38	1.81	− 0.86	0.40	0.0	9	14	11	6	se.	P. H. Moore.
Hill City	Pennington	5,061	1								2.42		0.58	0.0	9	22	6	3	e.	Geo. A. Karr.
Howard	Miner	1,564	18	69.4	− 0.6	95[a]	2	48[a]	15†	36[a]	4.08	+ 1.02	1.37	0.0	8	13	12	6	se.	J. J. Cox.
Howell	Hand		8	70.2	+ 0.2	98	20	46	23	39	5.62	+ 3.56	1.71	0.0	12	18	9	4	se.	M. A. Shuster, jr.
Huron	Beadle	1,306	29	70.4	− 1.1	95	20	50	23	36	2.42	− 0.52	0.83	0.0	13	17	9	5	se.	U. S. Weather Bureau.
Ipswich	Edmunds	1,530	12	68.6	− 2.1	99	19	44	24	45	2.42	+ 0.01	0.85	0.0	7	23	4	4	nw.	J. B. Taylor.
Kadoka	Stanley	2,467	1	73.8		101	18	50[a]	22	37[a]	1.91		1.10	0.0	5	6	20	5		Rev. D. S. Brown
Kennebec	Lyman	1,689	14	75.1	+ 2.6	104[a]	20	46[c]	23	44[c]	0.41	− 1.78	0.26	0.0	3	22	4	5	se.	R. C. Van Horn.
Kidder	Marshall	1,295	6	68.8	+ 3.4	93	19	50	13	38	2.28	− 0.78	0.80	0.0	4	25	2	4	se.	H. C. Schussler.
Kimball	Brule	1,788	20	73.8	+ 1.1	100	2	50	27	39	2.54	− 0.17	0.59	0.0	9	20	6	5	se.	G. D. Rose.
La Delle	Spink	1,400	13	70.7	− 0.8	95	19	48	23	35	4.74	+ 1.25	2.20	0.0	6	14	10	7	se.	E. L. Ebbert.
Lead	Lawrence	5,200	1	67.0		92	18	43	22	39	4.01		1.22	0.0	12	13	15	3	se.	E. F. Irwin.
Lemmon	Perkins	2,345	1	67.2		96[c]	18	47[c]	14†	40[c]	2.99		0.70	0.0	10	26	0	5	se.	W. E. Lyman.
Leslie	Stanley	1,225																		C. E. Robinson.
Marion	Turner	1,447	9	71.2	− 0.7	95	29	52	23	30	2.71	− 1.00	0.77	0.0	8	12	11	8	se.	M. H. Dains.
Mellette	Spink	1,300	17	69.6	− 2.0	96	19	48	23	39	4.43	+ 1.67	1.84	0.0	10	15	10	6	se.	Frank A. Howe.
Menno	Hutchinson	1,325	14	70.8	− 1.8	94	28	51	23	33	3.26	− 0.58	0.92	0.0	7	16	7	8	se.	J. H. Swanton.
Mitchell	Davison	1,312	14	71.6	0.0	99	2	49	23	37	2.28	− 1.10	0.73	0.0	7	21	6	4	se.	C. W. Downey.
Murdo	Lyman	2,300	2	74.2		102	19	50	8†	41	0.99		0.65	0.0	3	18	9	4	se.	L. C. Bode.
Orman	Butte	2,920	4	71.8	+ 1.1	101	18	49	14†	42	1.33	− 1.10	0.52	0.0	8	17	6	8	e.	W. H. Rader.
Ottumwa	Stanley		2	72.6		104	18	46[c]	23	45[c]	0.69		0.63	0.0	2	20	7	4	nw.	H. Hallenbeck.
Pierre	Hughes	1,572	19	75.0	− 0.2	102	19	55	15	33	0.73	− 1.62	0.26	0.0	6	17	10	4	e.	U. S. Weather Bureau.
Plankinton	Aurora	1,528	19								2.04	− 0.85	1.01	0.0	7	11	15	5	se.	W. G. Andrews.
Pollock	Campbell		3								3.60		2.00	0.0	4					J. H. Jones.
Rapid City	Pennington	3,251	22	70.9	+ 0.7	96	18	50	12	35	1.80	− 0.75	0.52	0.0	9	20	8	3	se.	U. S. Weather Bureau.
Redfield	Spink	1,295	12	70.0	− 0.5	98	19	49	9	35	4.82	+ 2.03	2.40	0.0	11	23	1	7	se.	A. S. Hall.
Rosebud	Meyer	2,600	15	72.0	− 1.8	98[d]	18	45[a]	16	42[a]	2.04	− 0.73	1.00	0.0	5	18	10	3	se.	W. M. Ege.
Roslyn	Day		4	67.7	+ 0.7	91	17	49	23	36	2.38	+ 0.75	0.93	0.0	8	19	8	4	se.	O. O. Floren.
Running Water	Bon Homme										2.97		1.50	0.0	4					W. N. Isham.

TABLE 1.—*Climatological data for July, 1909. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
South Dakota—Cont'd.																				
Savoy	Lawrence	4,500									3.39		0.79	0.0	10	10	20	1		W. J. Hall.
Selby	Walworth		1	70.2		94	20	50	15	32	2.78		0.93	0.0	8	22	4	5	se.	Miss Gertrude Hall.
Sioux Falls	Minnehaha	1,400	20	71.2	− 0.5	97	2	50	5	33	4.78	+ 1.67	2.60	0.0	7	13	9	9	nw.	J. H. Bechtold.
Spearfish	Lawrence	3,647																		O. A. Martin.
Stephan	Hyde	1,840	5	71.8	+ 2.2	101	19†	47	23	43	1.95	− 1.23	0.88	0.0	7	16	5	10	se.	Rev. A. Mattingly.
Tama	Meade		1	72.7		103	18	43	15	42	2.44		0.90	0.0	8	17	5	9	se.	J. J. Daily.
Vale	Butte	2,765	2	71.8		103	1	45	13	43	2.16		0.99	0.0	6	21	7	3	e.	G. W. Shaw.
Van Metre	Lyman																			Thos. H. Hill.
Vermillion	Clay	1,222	8	73.5	− 0.8	97	2	53	23	30	7.15	+ 2.44	1.84	0.0	12	18	5	8	sw.	Prof. E. C. Perisho.
Water's Ranch	Lawrence	4,000	1								2.02		0.79	0.0	9					Geo. Waters.
Watertown	Codington	1,735	14	69.8	+ 3.0	92	17†	48	16	40	3.38	+ 0.19	1.50	0.0	5	17	6	8	e.	Robert Q. Wood.
Wentworth	Lake		19	69.6	− 0.8	94[a]	2	50[a]	23	30[a]	2.49	− 0.43	1.51	0.0	4	22	3	6	s.	R. C. Zimmerman.
Wessington Springs	Jerauld	1,410	14	71.3	− 1.0	98	19	52	3†	28	2.06	− 0.84	0.55	0.0	10	10	17	4	se.	F. N. Dunham.
White Lake	Aurora	1,646												0.0		16	9	6	e.	Mrs. G. A. Rogers.
Yankton	Yankton	1,234	37	72.2	− 2.4	97	2	54	24	30	5.24	+ 1.72	1.80	0.0	11	10	12	9	ne.	U.S. Weather Bureau.
Minnesota.																				
Pipestone	Pipestone	1,710	10	67.6	− 1.7	91	2	49	4	35	2.83	− 0.55	0.98	0.0	8	11	14	6	se.	W. S. Campbell.
Colorado.																				
Akron	Washington	4,650	7								1.98	− 1.32	1.38	0.0	7					Ira M. Barnhouse.
Alma	Park	10,238	12								4.30	+ 1.88	0.82	0.0	18	6	12	13		W. H. Powless.
Arriba (near)	Lincoln	5,239	3	70.2		92	20	50	22	35	3.08		0.92	0.0	6	16	15	0	se.	C. S. Graves.
Auldhurst	Teller	8,500																		Mrs. Alice A. Auld.
Barker	Boulder	8,000	2								3.30		0.87	0.0	12	17	10	4	w.	E'n Colo. P. Co.
Boreas	Park	11,489									3.34		0.66	0.0	13	3	20	8	nw.	Frank Soper.
Boulder	Boulder	5,347	13	71.2	+ 1.3	91	11†	53	13	33	3.18	+ 1.33	0.79	0.0	9	21	10	0	w.	S. A. Giffin.
Burlington	Kit Carson	4,160	5	73.5	+ 4.4	95	20	56	23	32	2.64	− 0.46	1.10	0.0	9	21	6	4	se.	C. Creglow.
Cassels	Park	8,445																		Harriet M. Cassell.
Castle Rock	Douglas	6,220	18	67.2	− 0.5	90	17	44	12	41	1.69	− 0.96	0.60	0.0	8					Chas. Hy. Ellis.
Cheesman	Jefferson	6,890	6	68.6	+ 3.6	90	11†	47	4	38	1.57	− 0.70	0.22	0.0	12	18	13	0	sw.	C. L. Adams.
Cheyenne Wells	Cheyenne	4,279	16	74.6	+ 1.2	95	23	53	26	39	4.72	+ 1.66	1.14	0.0	8	28	3	0	s.	J. B. Robertson.
Como	Park	9,785	10								2.72	− 0.90	1.09	T.	10	24	6	1	w.	Edwin Pike.
Cope	Washington		11	72.6	0.0	96	27	50[a]	5	38	4.25	+ 0.87	1.49	0.0	9	14	16	1	s.	A. A Williams.
Corona	Grand	11,660	2	50.0		64	7†	32	12	28	1.72		0.48	0.0	8				w.	U. S. Weather Bureau.
Denver	Denver	5,272	37	73.0	+ 1.2	95	18	56	28	33	4.17	+ 2.57	1.53	0.0	12	15	16	0	sw.	U. S. Weather Bureau.
Edgewater	Jefferson		1	69.2		93	18	50	28†	42	3.65		0.92	0.0	13	27	3	1		Dr. J. B. Fish.
Estes Park Hatchery	Larimer	8,000									1.76		0.50	0.0	10	9	7	15	w.	Gaylord H. Thompson.
Fort Collins	do	4,985	29	70.4	+ 1.9	94	18	48	11†	43	1.98	+ 0.05	0.90	0.0	10	13	17	1	nw.	Colo. Agri. College.
Fort Morgan	Morgan	4,319	14	74.6[a]	+ 1.8	98[a]	11†	51[a]	8†	42[a]	1.04	− 1.14	0.35	0.0	8	16	14	0	se.	Della M. Scott.
Frances	Boulder	9,300	4	63.0		84	17	41	12	37	1.98		0.43	0.0	12	11	20	0	w.	D. A. Barry
Fry's Ranch	Larimer	7,500		61.2		84	2†	36	13	45	0.98		0.27	0.0	11	23	8	0	w.	Norman W. Fry.
Georgetown	Clear Creek	8,550	8								2.57	+ 0.67	0.64	0.0	12	10	14	7		H. L. Corbett.
Greeley	Weld	4,649	18	73.6	+ 3.0	98	19	52	13	44	5.14	+ 3.31	2.60	0.0	9	22	9	0	e.	Nelson Reynolds.
Hartsel	Park	7,670									1.12		0.60	0.0	9	18	9	4		Emily Kleinknecht.
Hawthorne	Boulder	6,000	1								1.16		0.36	0.0	8	27	4	0		B. L.Chesebro.
Holyoke (near)	Phillips	3,745	13																	E. E. T. Hazen.
Idaho Springs	Clear Creek	7,534	9	64.4	+ 1.9	86	17†	45	11	38	2.20	− 0.49	0.46	0.0	11				e.	J. J. Wilis.
Keota	Weld	4,966																		
Kossler	Boulder	7,720	2																	E'n. Colo. P. Co.
La Port	Larimer	5,053	18								1.24	+ 0.65	0.62	0.0	4					P. A. Taft.
Le Roy (near)	Logan	4,380	20	72.5	+ 1.2	98	31	47	22	40	1.05	− 1.10	0.41	0.0	7	15	14	2	se.	Chas. Green.
Longmont	Boulder	4,980	7	71.6	+ 1.4	96	17	48	28	43	0.73	− 0.79	0.18	0.0	9	19	12	0		Geo. W. Johnson.
Long's Peak (near)	Larimer	8,600	14	58.4	+ 4.4	81	17†	36	26	41	3.99	+ 1.31	2.40	0.0	11	14	13	4	w.	Enos A. Mills.
Moraine	do	7,775	19																	J. D. Stead.
Platte Canyon	Jefferson	5,492	10								1.94	+ 0.05	0.52	0.0	9					Norman Steele.
St. Cloud	Larimer	7,750																		Mrs. Phebe A. Campton.
Sedgwick	Sedgwick	3,573	1	75.0		98	20	46	22	45	1.51		0.76	0.0	4	20	9	2	se.	Dr. Edwin Lewis.
Sill Mine	Clear Creek	11,500									4.69		0.95	0.0	15	15	9	7	w.	Chas. F. Deininger.
Spicer (near)	Larimer	8,700																		Frank W. Murphy.
Waterdale	do	5,206	14	70.2	+ 3.5	95	18	49	15	44	2.07	− 0.26	0.68	0.0	8					P. H. Boothroyd.
Westlake	Boulder		1								3.41		1.94	0.0	8	17	12	2		G. E. Richardson.
Wray	Yuma	3,512	15	75.2	+ 1.6	97	20†	50	13†	40	1.75	− 0.82	1.03	0.0	8	16	14	1	se.	J. C. Tuomey.
Yuma	do	4,138	18								5.72	+ 3.02	2.42	0.0	7	15	10	6	se.	Geo. W. Custer.
Nebraska.																				
Ainsworth	Brown	2,521	4	78.3		98	3	50	15†	32	4.07		1.72	0.0	8	3	24	4	sw.	John M. Cotton.
Albion	Boone	1,747																		F. A. Pittenger.
Alliance	Boxbutte	3,968	14	75.2	+ 3.4	98	2†	47	13	41	0.51	− 2.16	0.40	0.0	5	19	12	0	e.	Agent, C. B. & Q. R. R.
Alma	Harlan	1,939	12	76.5	+ 1.1	96	3	49	23	38	3.56	+ 0.11	1.69	0.0	11	17	11	3	s.	W. A. Sharpnack.
Anoka	Boyd		3	72.1		101	2	43	23	45	3.79		1.80	0.0	5	14	12	5	nw.	W. Whitla.
Arcadia	Valley	2,186									6.22	+ 0.83	1.79	0.0	11	16	8	7	se.	J. L. Owen.
Ashland	Saunders	1,100	19	76.2	0.0	99	21	54	24	35	3.33	− 1.69	0.96	0.0	13	18	7	6	s.	A. S. von Mansfelde.
Ashton	Sherman	2,061									6.82	+ 2.59	2.09	0.0	8	18	6	7	s.	Fred Rein.
Atkinson	Holt	2,108	4	72.3		98	2	47	23	37	2.35		0.90	0.0	5	19	6	6	se.	C. J. Wilson.
Auburn	Nemaha	1,051	17	75.6	0.0	96	21	52	24	30	6.35	+ 1.34	3.52	0.0	10	13	9	9	se.	J. R. Huffman.
Aurora	Hamilton	1,792																		Agent, C. B. & Q. R. R.
Beatrice	Gage	1,235	18	77.2	+ 1.0	97	3	53	23	32	8.17	+ 3.65	5.15	0.0	12	24	2	5	se.	W. S. Waxham.
Beaver City	Furnas	2,147	18	78.2	+ 2.3	104	9	52	23	31	2.59	− 1.29	0.93	0.0	7	14	13	4	se.	T. M. Davis.
Bellevue	Sarpy	1,210	5	75.2	+ 1.8	93	2†	54	23	26	3.12	− 1.38	1.10	0.0	8	18	4	9	ne.	Bellevue College.
Bertrand	Phelps	2,515									1.56		0.92	0.0	5					W. F. Dobbin.
Blair	Washington	1,122	12	74.2	− 2.7	94	2	53	24	33	7.97	+ 3.26	4.33	0.0	9	19	5	7	se.	H. H. Hahn.
Bloomfield	Knox										2.82		1.00	0.0	7	16	7	8	s.	J. M. Barnard.
Bluehill	Webster	1,967									6.15	+ 2.13	1.80	0.0	9	16	4	11	s.	Agent, C. B. & Q. R. R.
Bradshaw	York	1,715									7.95	+ 2.66	3.82	0.0	10	10	17	4		E. C. Roggy.
Bridgeport	Cheyenne	3,800	13	71.4	− 0.2	93	20	46	22	42	2.62	+ 0.25	1.20	0.0	5	19	12	0	se.	R. H. Willis.
Brokenbow	Custer	2,477	15	73.6	+ 0.3	98	2†	46	23	38	6.93	+ 2.51	2.41	0.0	12	20	10	1		Agent, C. B. & Q. R. R.
Burchard	Pawnee	1,377									9.02	+ 3.94	2.80	0.0	10	11	10	10	ne.	Do.
Burge	Cherry	2,674	1	74.8		102	20	44	15†	44	1.11		0.60	0.0	3	18	10	3	se.	H. A. Davis.
Burwell	Garfield	2,180									1.68	− 1.69	0.65	0.0	4	15	9	7	nw.	Agent, C. B. & Q. R. R.
Cairo	Hall	1,951									7.19		2.25	0.0	8					Elliott Harrison.
Callaway	Custer	2,555	17	74.2	+ 1.3	99	28	45	23	41	3.93	+ 0.91	1.70	0.0	6	20	6	5	s.	J. H. Evans.
Cambridge	Furnas	2,258	2	76.0		97	20	48	23	39	2.54		1.03	0.0	6	17	9	5	se.	Chas. Jensen.
Canton (near)	Sioux		1	69.8		97	20	37	22	53	1.35		1.15	0.0	4				se.	A. E. Hann.
Columbus	Platte	1,442	15	73.8	+ 0.6	97	2	51	23†	35	7.93	+ 3.98	2.24	0.0	13	13	1	17	se.	C. C. Gray.
Cozad	Dawson	2,496									3.28		1.31	0.0	5	8	22	1	s.	A. A. Luttin.
Creighton	Knox	1,600	12	72.8	− 0.7	99	2	46	23	34	2.44	− 1.25	0.95	0.0	10	17	4	10	se.	C. H. Blood.
Crete	Saline	1,368						53	23		5.33	+ 0.68	3.47	0.0	10	12	11	8	se.	Doane College.
Culbertson	Hitchcock	2,565	7	80.6[a]	+ 5.2	100	4†	63	27	31	1.75	− 1.28	0.86	0.0	7	16	4	12	se.	J. H. Corrick.
Curtis	Frontier	2,553	14	77.6[d]	+ 2.2	102	4	47	24	41	1.68	− 1.50	1.46	0.0	3				e.	Dr. S. R. Razee.

TABLE 1.—*Climatological data for July, 1909. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Nebraska—Cont'd.																				
David City	Butler	1,619	19	73.5	+ 0.4	92	2	54	23	26	6.00	+ 1.64	2.21	0.0	9	9	13	9	se.	S. Clingman.
Dawson	Richardson	945	13	76.7	− 0.3	96	2	55	24	32	8.34	+ 2.81	2.64	0.0	15	21	8	3	sw.	Mrs. E. I. Atkinson.
Dubois	Pawnee	1,074									8.30		1.47	0.0	15	20	7	4	ne.	O. M. Backus.
Duff	Rock										4.16	+ 0.20	1.12	0.0	8	15	12	4	s.	Dewitt Eager.
Edgar	Clay	1,722									7.64	+ 3.28	2.01	0.0	11	7	15	9		G. W. Ferree.
Ellis	Gage	1,430									7.26		4.00	0.0	8					D. J. Wood.
Elmcreek	Buffalo	2,268									5.76		1.75	0.0	6					E. L. Sutton.
Elsie	Perkins	3,382									1.46		0.47	0.0	6					J. L. Brittain.
Enderslake	Brown		1	75.4[c]		100	27	51	11	37	0.34		0.07	0.0	7	13	14	4	sw.	C. D. Langley.
Endicott	Jefferson	1,288									5.15		1.70	0.0	9	23	0	8	w.	Agent, C. B. & Q. R. R.
Ewing	Holt	1,888	3	73.8		106	2	48	2	40	4.51	+ 1.02	1.11	0.0	7					G. H. Benson.
Fairbury	Jefferson	1,316	14	77.9	+ 1.4	99	3	55	23†	33	5.82	+ 0.88	1.75	0.0	11	14	13	4	se.	W. F. Cramb.
Fairmont	Fillmore	1,641	15	74.3	− 0.3	94	2	51	25	31	6.20	+ 1.72	3.70	0.0	13	15	6	10	s.	Agent, C. B. & Q. R. R.
Fort Robinson	Dawes	3,764	27	71.8	+ 0.7	99	18	41	13	49	0.37	− 1.61	0.21	0.0	6	21	4	6	sw.	Post Surgeon.
Franklin	Franklin	1,820	15	76.6[b]	+ 1.2	101	3	50	13	39	4.64	+ 0.95	1.10	0.0	8				se.	D. T. Shoemaker.
Fremont	Dodge	1,203	27	74.6	− 0.1	95	2	52	24	35	7.14	+ 2.57	3.22	0.0	10	14	9	8	se.	Ernest Hahn.
Fullerton	Nance	1,629	3	73.9		96	2	53	23†	33	7.51	+ 2.50	1.32	0.0	10	19	6	6	s.	Dr. F. W. Johnson.
Geneva	Fillmore	1,633	17	75.5	0.0	96	2	52	23	33	7.05	+ 2.89	3.82	0.0	11	19	6	6	se.	F. M. Flory.
Genoa	Platte	1,584	34	75.8	+ 1.0	95	2	53	23	37	6.16	+ 2.03	1.48	0.0	12	14	10	7	se.	F. W. Parsons.
Gordan	Sheridan	3,550	1	70.6[a]		96	20†	38	22	50	0.77	− 1.56	0.34	0.0	6	13	18	0	s.	G. F. Williams.
Gosper	Gosper										2.48	− 1.05	1.60	0.0	6	13	15	3	se.	E. H. Stoll.
Gothenburg	Dawson	2,557	15	76.0	+ 1.9	99	28	49	23	36	3.73	+ 0.77	1.40	0.0	7	16	11	4	se.	W. J. Bartholomew.
Grand Island	Hall	1,860	17	74.6	− 0.5	98	2	54	22†	31	4.35	+ 0.33	1.48	0.0	10	13	4	14	s.	E. A. Barnes.
Grant	Perkins	3,405	5	73.6[e]	+ 2.7	100	20	46	15	45	2.63	− 1.02	0.86	0.0	5				se.	Cyrus Carver.
Greeley	Greeley	2,021	2	73.7		99	2	48	23	39	5.01	+ 1.18	1.58	0.0	11	10	13	8	se.	W. E. Morgan.
Guilderock	Webster	1,646									5.70	− 0.78	1.55	0.0	7	16	13	2	s.	J. S. Marsh.
Haigler	Dundy	3,258									2.54	− 0.37	0.50	0.0	4	14	9	8	se.	Agent, C. B. & Q. R. R.
Halsey §	Thomas	2,695	6	75.3	+ 3.3	99	28	48	23	40	3.53	− 0.41	1.50	0.0	8	20	8	3	se.	U. S. Forest Service.
Hartington	Cedar	1,309	18	71.3	− 1.4	95	2†	52	23†	32	4.69	+ 1.29	1.46	0.0	9	14	3	14	se.	D. E. Ewing.
Harvard	Clay	1,812	19	73.8	− 0.5	95	2	52	24	34	4.69	+ 0.71	1.86	0.0	13	13	10	8	ne.	Dr. J. T. Fleming.
Hastings	Adams	1,932	16	75.6	+ 0.4	96	2	54	23	39	3.39	− 0.42	0.80	0.0	8	16	12	3	se.	Agent, C. B. & Q. R. R.
Hayes Center	Hayes		5	75.6[a]	+ 2.7	99	20	51	22†	37	0.70	− 2.07	0.34	0.0	5	17	12	2	se.	C. A. Ready.
Hay Springs	Sheridan	3,821	22	70.7	+ 0.3	95	2	41	13	46	2.03	− 0.66	1.00	0.0	6	16	14	1	se.	A. Kadlecek.
Hebron	Thayer	1,458	24	76.0	0.0	97	3	53	23	29	4.70	+ 0.11	2.41	0.0	10					C. M. Easton.
Hendley	Furnas	2,231									2.51	− 1.13	1.32	0.0	6					F. A. Jones.
Holdrege	Phelps	2,324	15	76.8	+ 0.5	98	2	53	23	34	3.66	+ 0.34	1.30	0.0	7	17	2	12	se.	Agent, C. B. & Q. R. R.
Hooper §	Dodge	1,228	12	74.6	+ 0.2	96	2	52	23†	33	5.82	− 0.78	2.72	0.0	10	14	10	7	s.	T. W. Lyman.
Imperial	Chase	3,278	20	75.2	+ 0.9	99	20	50	15†	39	1.59	− 1.44	0.66	0.0	5	10	18	3	se.	Robt. Malcolm.
Kearney	Buffalo	2,146	17	75.8[a]	+ 0.1	96	2†	49	22	35	3.65	− 0.90	1.03	0.0	5				sw.	N. C. Dunlap.
Kimball	Kimball	4,697	21	71.6	+ 0.7	94	19	47	22	39	1.76	− 0.91	0.78	0.0	7	24	6	1	s.	F. J. Bellows.
Kirkwood	Rock		14	74.0[a]	+ 1.4	102	2	47	23	39	2.76	− 1.14	0.82	0.0	7				se.	Mrs. C. Arter.
Kowanda	Denell										0.59		0.23	0.0	5					Geo. W. Hulse.
Leavitt §	Dodge	1,228									6.15	+ 1.28	2.92	0.0	7	16	0	15	s.	W. T. Scilley.
Lexington	Dawson	2,385	20	74.6	+ 2.2	95	4†	48	23	35	3.61	+ 0.23	1.10	0.0	9	24	0	7	se.	Rob't Chadwick.
Lincoln	Lancaster	1,189	24	76.2	− 0.2	96	2	55	24	30	4.87	+ 1.04	2.89	0.0	8	12	10	9	s.	U. S. Weather Bureau.
Lodgepole	Cheyenne	3,820																		
Loup	Sherman	2,067																		
Loyal	Custer										3.30		0.90	0.0	5				s.	C. H. Cass.
Lynch	Boyd		17	73.9[a]	− 0.2	100	2†	48	23	38	4.04	− 0.02	2.20	0.0	5	22	2	7	sw.	S. W. Lightner.
McCook	Redwillow	2,506	9	74.8	− 2.9	99	31	44	23	39	1.19	− 2.14	0.68	0.0	3	25	6	0	se.	C. G. Coglizer.
McCool Junction	York	1,575									4.60	− 0.24	1.95	0.0	7					L. L. Slagle.
Madison	Madison	1,585	15	73.0	+ 0.1	93	2	52	23†	32	4.32	+ 0.85	1.33	0.0	8	15	6	10	sw.	Dr. F. A. Long.
Marquette	Hamilton	1,830									5.13	+ 0.85	2.28	0.0	11					John Ellis.
Mason City	Custer	2,257									4.66	+ 0.07	1.73	0.0	6					J. A. Amsberry.
Minden	Kearney	2,169	26	74.6	− 0.3	98	3	50	23†	34	4.00	− 0.68	1.37	0.0	12	12	10	9	se.	Joel Hull.
Mitchell	Scottsbluff		1	71.0		94	19	42	22	42	1.13		0.48	0.0	4	20	11	0	e.	U.S. Reclamation Service
Monroe	Platte	1,525									7.38	+ 3.09	1.47	0.0	16	14	8	9		Wm Webster.
Nebraska City	Otoe	941	27	75.9	0.0	94	21†	52	23†	31	4.01	+ 0.22	2.00	0.0	7	17	8	6	s.	Agent, C. B. & Q. R. R.
Norfolk	Madison	1,532	24	72.9[b]	− 0.5	99	2	48	23	36	4.71	+ 0.41	1.04	0.0	9				s.	Dr. P. H. Salter.
North Loup	Valley	1,961	21	73.8	0.0	99	2	48	23	38	6.20	+ 2.07	1.75	0.0	10	17	7	7	s.	W. G. Rood.
North Platte	Lincoln	2,841	35	74.2	+ 0.3	96	28	50	23	32	5.21	+ 2.53	2.49	0.0	11	21	7	3	se.	U. S. Weather Bureau.
Oakdale	Antelope	1,722	21	73.0	− 0.2	97	2	49	23	37	3.59	− 0.05	1.16	0.0	11	12	10	9	s.	G. S. Clingman.
Odell	Gage	1,278									7.37	+ 2.30	2.25	0.0	11	13	6	12		Agent, C. B. & Q. R. R.
Omaha	Douglas	1,103	39	75.6	− 0.9	94	2	58	23	24	4.40	+ 0.07	1.80	0.0	11	13	10	8	s.	U. S. Weather Bureau.
Ord	Valley	2,062									4.97	+ 1.07	1.10	0.0	10	20	2	9	s.	James Milford.
Orleans	Harlan	1,993									2.76		1.00	0.0	6					James McGeachin.
Osceola	Polk	1,644																		
Palmyra * §	Otoe	1,142	11	76.2	+ 1.1	96	17†	58	24		5.15	+ 0.56	4.52	0.0	8	20	6	5	se.	Thos. Coles.
Pawnee City	Pawnee	1,175	6	75.8	+ 1.7	96	2	53	23†	32	7.61	+ 2.94	2.20	0.0	10	22	7	2	se.	F. A. Barton.
Plymouth	Jefferson	1,419	5	76.2	+ 2.1	97	3	52	23	31	8.63	+ 3.20	5.50	0.0	11	10	14	7	se.	John Ruppel.
Purdum	Blaine		8	73.6	+ 2.4	96	20†	45	23	42	3.04	− 0.46	1.00	0.0	7	18	9	4	se.	T. C. Jackson.
Ravenna	Buffalo	2,028	20	74.2	+ 0.4	98	2	48	23	36	5.47	+ 1.15	1.57	0.0	14	15	11	5		Erastus Smith.
Redcloud	Webster	1,687	13	76.2	− 0.6	96	3	50	23	35	5.73	+ 0.95	1.87	0.0	11	21	6	4	se.	C. S. Ludlow.
St. Libory	Howard	1,887									9.96	+ 4.93	2.80	0.0	9	10	13	8	se.	W. I. Meader.
St. Paul	do	1,796	15	75.2	+ 0.3	98	2	51	23	35	6.76	+ 1.73	1.79	0.0	8	16	9	6	se.	Paul Anderson.
Santee	Knox		22	74.4	− 1.2	99	2†	54	23	33	2.93	− 0.68	0.82	0.0	8	19	5	7	nw.	E. G. Kendall.
Sargent	Custer		1	73.1		100	2	46	23†	43	5.75	+ 2.17	2.90	0.0	4	19	0	12	se.	J. L. Ferguson.
Schuyler	Colfax	1,357									6.86	+ 2.87	2.75	0.0	10	8	10	13	se.	Agent, C. B. & Q. R. R.
Scottsbluff	Scottsbluff	4,662	3	71.8		94	18	45	13†	42	2.53		1.00	0.0	7	23	8	0	se.	A. B. McCoskey.
Seward	Seward	1,435						52	22		5.77	+ 1.06	3.50	0.0	8	16	11	4	se.	Agent, C. B. & Q. R. R.
Sheridan	Wheeler										5.90		1.20	0.0	10	18	6	7	se.	J. C. Harris.
Sidney	Cheyenne	4,090									1.92	− 0.44	0.55	0.0	7	22	9	0	se.	J. P. Fischer.
Springview	Keyapaha		18	74.3	+ 1.0	100	2†	50	22†	36	2.08	− 1.14	1.05	0.0	8	17	10	4	se.	C. L. Phelps.
Stanton	Stanton	1,472	15	72.4	− 0.4	96	2	47	23†	39	4.29	+ 0.33	1.17	0.0	10	10	20	1	sw.	Alfred Pont.
Stratton	Hitchcock	2,804									0.94	− 1.53	0.60	0.0	5					Stella Vennum.
Superior	Nuckolls	1,574																		Agent, C. B. & Q. R. R.
Syracuse	Otoe	1,059									5.20	+ 0.45	2.80	0.0	7	15	0	16	e.	Do.
Tablerock	Pawnee	1,023									7.89	+ 3.16	3.34	0.0	14	19	10	2	s.	E. D. Howe.
Tecumseh	Johnson	1,113	22	78.8	+ 1.4	106	29	60	4†	45	8.02	+ 3.56	6.00	0.0	9	13	12	6	sw.	Agent, C. B. & Q. R. R.
Tekamah	Burt	1,060	19	74.1	− 0.8	97	2	51	24	33	6.42	+ 1.77	2.67	0.0	10	14	11	6	se.	A. D. Nesbit.
Turlington	Otoe	1,214	18	75.2	− 0.7	95	29	55	24	31	5.68	+ 1.65	2.75	0.0	11	18	6	7	se.	W. N. Hunter
University Farm §	Lancaster		8	75.8	+ 1.5	97	2	50	24	36	3.82	− 0.42	2.15	0.0	8	8	19	4		S. W. Perin.
Valentine	Cherry	2,613	21	73.5	+ 0.3	99	20	49	23	35	1.62	− 1.78	0.80	0.0	4	19	12	0	s.	U. S. Weather Bureau.
Wahoo	Saunders	1,187									6.67	+ 1.32	2.32	0.0	8	16	11	4	se.	Wm. T. Mauck.
Wakefield	Dixon	1,387	13	72.4	− 0.3	96	2	47	24	37	3.99	+ 0.57	0.88	0.0	11	14	7	10	s.	I. H. Weaver.
Wallace	Lincoln	3,116									3.25	+ 0.53	1.85	0.0	4				s.	Agent, C. B. & Q. .R. R.
Walthill	Thurston										1.27	− 2.98	0.70	0.0	5					Harry L. Keefe.

TABLE 1.—*Climatological data for July, 1909. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Nebraska—Cont'd.																				
Watertown	Buffalo	2,299									3.50		0.98	0.0	8	11	14	6	se.	R. E. Swift.
Wauneta	Chase										1.03	− 2.01	0.60	0.0	5					C. D. Fuller.
Weepingwater	Cass	1,080	3	75.0		99	21	49	24	39	2.96	− 1.07	1.05	0.0	10	19	3	9	se.	S. W. Orton.
Westpoint	Cuming	1,313	13	72.4	− 2.0	95	2	48	24	35	4.76	+ 0.60	1.31	0.0	9	20	5	6	s.	J. C. Elliott.
Wilber	Saline	1,325									8.85	+ 3.38	6.60	0.0	6	10	10	11	se.	Agent, C. B. & Q. R. R.
Wisner	Cuming	1,380														11	11	9	se.	Aoff & Deily.
Woodlawn	Lancaster	1,186									4.71		1.89	0.0	9	12	11	8	se.	H. C. Kendall.
York	York	1,606	17	75.7	− 0.9	94	1†	53	23	34	9.12	+ 4.57	6.90	0.0	9	17	7	7	ne.	H. T. Gianque.
Iowa.																				
Afton	Union	1,212	14	75.2	0.0	97	29	58	23†	30	5.21	+ 0.86	1.85	0.0	11	11	13	7	sw.	N. W. Rowell.
Allerton	Wayne	1,513	17	73.6	+ 1.0	96	29	57	4†	29	11.86	+ 7.29	6.50	0.0	10	19	5	7	sw.	Mrs. Geo. Shriver.
Alta	Buena Vista		6	70.4	− 1.5	93	2	52	5	27	5.86	− 1.18	1.68	0.0	16	13	10	8	s.	David E. Hadden.
Alta (near)	do										8.37	+ 3.49	1.90	0.0	15					W. J. Minard.
Alton	Sioux	1,305	3	71.5		98	2	50	22	39	6.61		2.70	0.0	11	19	3	9	s.	W. S. Slagle.
Atlantic	Cass	1,164	17	74.2	+ 1.0	94	29	53	24	32	6.00	+ 1.67	2.40	0.0	12	13	9	9	ne.	Thos. H. Whitney.
Audubon	Audubon	1,301	15	71.5	− 0.6	93	2	48	24	33	7.33	+ 3.41	2.65	0.0	12	17	4	10	se.	Geo. E. Kellogg.
Bedford	Taylor		8	74.6	+ 1.2	99	29	52	24	31	7.29	+ 1.95	2.90	0.0	13	19	3	9	se.	E. E. Healy.
Charlton	Lucas	1,042	13	71.9	− 1.9	97	29	56	4†	32	6.11	+ 0.65	2.70	0.0	7	18	7	6	se.	C. C. Burr.
Clarinda	Page	1,009	18	74.8	− 0.7	97	29	52	24	33	7.55	+ 2.85	2.65	0.0	10	15	2	14	s.	H. S. Van Sandt.
Corning	Adams	1,117	16	74.0	+ 0.4	95	29	51	24	33	6.87	+ 2.52	2.83	0.0	11	12	10	9	se.	Jerome Smith.
Corydon	Wayne	1,101	15	73.6	− 1.2	96	29	57	4†	26	7.34	+ 3.16	2.82	0.0	12	16	8	7	e.	Clara Miller.
Creston	Union	1,312	3	72.3		95	29	50	24	34	5.16		2.18	0.0	11	16	5	10	se.	Edgar Stovall.
Cumberland	Cass		9								4.73	− 0.71	1.16	0.0	9	19	4	8	sw.	J. H. Reppert.
Denison	Crawford	1,180	13	71.4	− 1.3	91	2	49	24	33	6.08	+ 2.02	1.84	0.0	11	18	5	8	s.	W. C. Van Ness.
Elliott	Montgomery		3	74.0		92	29	59	24	24	8.44		5.00	0.0	8	14	11	6	se.	Henry Barnes.
Hancock	Pottawattamie	1,113	2	74.8		96	2	54	23†	32	2.85		2.00	0.0	4	19	1	11	se.	G. C. Rogers.
Harlan	Shelby	1,192	9	72.3	− 0.9	93	18	50	24	34	5.03	− 0.28	2.60	0.0	10	5	14	12	e.	C. A. Reynolds.
Hopeville	Clarke		17	73.4	− 0.7	96	29	56	23†	27	7.36	+ 2.51	2.49	0.0	14	9	14	8	e.	M. T. Ashley.
Inwood	Lyon	1,474	4	71.6		97	2	50	23	33	4.37		0.96	0.0	15	20	3	8	s.	F. B. Hanson.
Lamoni	Decatur			75.2		99	29	53	4	32	11.78		4.05	0.0	17	18	5	8	se.	T. J. Fitzpatrick.
Larrabee	Cherokee	1,266	17	71.3	− 1.5	97	2	50	4†	31	5.79	+ 1.42	1.93	0.0	8	15	8	8	se.	H. B. Strever.
Le Mars	Plymouth	1,224	12	70.4	− 2.0	90	2†	52	4†	28	6.82	+ 2.35	1.92	0.0	11	12	13	6	s.	G. A. C. Clarke.
Lenox	Taylor	1,250	13	73.8	0.0	95	29	54	24	28	9.86	+ 4.92	3.90	0.0	13	18	3	10	s.	J. L. Hurley.
Leon	Decatur	1,120	6	74.3	+ 1.1	95	29	57	4†	32	10.90	+ 6.48	4.15	0.0	15	13	9	9	sw.	Morris Gardner.
Little Sioux	Harrison		4	73.9		95	2	53	24	31	4.13		1.35	0.0	8	17	4	10	se.	Geo. H. Gibson.
Logan	do	928	42	73.2	− 1.5	95	2	52	24	32	6.83	+ 1.60	4.42	0.0	8	17	8	6	ne.	Glen H. Stern.
Mt. Ayr	Ringgold	1,236	15	74.6	− 0.4	97	29	52	4	32	12.20	+ 6.89	3.90	0.0	16	14	12	5	sw.	A. F. Beard.
Odebolt	Sac	1,356	10	73.2	− 1.3	96	1†	51	24	36	5.85	+ 1.21	1.55	0.0	14	16	5	10		E. Starner.
Onawa	Monona	1,051	8	74.8	− 0.2	95	2	57	23	26	4.38	− 1.29	1.68	0.0	13	21	0	10	se.	C. G. Perkins.
Pacific Junction	Mills	960	9	74.6	+ 0.4	94	29	53	24	32	3.13	− 2.00	0.92	0.0	8	16	12	3	s.	H. H. McCartney.
Rock Rapids	Lyon	1,358	9	73.8	+ 2.0	95	2	53	5†	34	4.63	+ 1.76	1.21	0.0	10					W. C. Wyckoff.
Sheldon [e]	O'Brien	1,422	8	71.8	− 0.3	97	2	50	4†	36	5.85	+ 0.71	2.30	0.0		15	8	8	sw.	Dr. A. W. Beach.
Sibley	Osceola	1,212	15	69.3	− 0.9	94	2	51	5†	28	3.21	− 0.76	1.10	0.0	15	18	5	8	sw.	Francis C. Doolittle.
Sioux Center	Sioux		9	71.0[b]	− 0.2	93[b]	2	51[b]	4	31[b]	7.74	+ 3.02	3.95	0.0	11	17	4	10	s.	J. Deruyter.
Sioux City	Woodbury	1,135	20	72.2	− 2.0	96	2	54	24	27	4.09	+ 0.48	1.13	0.0	10	15	4	12	s.	U. S. Weather Bureau.
Thurman	Fremont		11	75.8	+ 0.4	95	2	52	24	32	3.45	− 2.46	1.32	0.0	10	11	12	8	e.	C. R. Paul.
Washta	Cherokee	1,157	10	70.8		95	2	46	20	37	6.89	+ 2.44	2.75	0.0	10	13	10	8	w.	H. L. Felter.
Woodburn	Clarke	961	9	72.3		96	29	50	24	33	6.51	+ 1.35	2.60	0.0	11	13	11	7	ne.	C. B. McDonough.
Kansas.																				
Abilene	Dickinson	1,157	14								8.22	+ 4.02	2.94	0.0	13	11	11	9	se.	J. H. Sherman.
Agricultural College	Riley	1,100	51	78.5	− 0.2	98	3	56	24	30	9.57	+ 4.95	2.02	0.0	12	15	9	7	s.	J. O. Hamilton.
Alton	Osborne	1,651	7	78.4	+ 2.1	98	3†	51	23	34	2.69	− 0.23	1.31	0.0	5	15	13	3	se.	H. A. Storer.
Atchison	Atchison	973	18	77.4	+ 0.4	95	5†	60	16	30	8.64	+ 3.69	5.30	0.0	10	23	5	3	s.	M. F. Troxell.
Baker	Brown	1,182	9	75.0[b]	− 1.7	93[b]	3	53[b]	23	28[b]	8.59	+ 4.08	4.55	0.0	9	12	6	11	s.	E. A. Bastien.
Beloit	Mitchell	1,383	14								6.30	+ 2.64	2.00	0.0	12	14	8	9	se.	W. H. Houghton.
Blakeman	Rawlins	2,894	1	76.4	+ 0.7	98	4	47	23	37	2.39	− 1.09	1.75	0.0	7	21	5	5	se.	C. L. Henderson.
Blue Rapids	Marshall	1,105	3								5.80		1.19	0.0	12	20	3	8		M. Norton.
Centralia	Nemaha	1,256		75.4		94	3	53	23	27	9.75		1.93	0.0	13				se.	L. E. Hazen.
Chapman	Dickinson	1,123	5	79.0		100	3	55	24	30	5.98	+ 1.73	1.88	0.0	11	23	7	1	s.	R. McShea.
Clay Center	Clay	1,203	8	78.4	+ 1.6	100	5	54	23	35	6.76	+ 2.53	1.45	0.0	10	15	7	9	s.	O. L. Slade.
Colby	Thomas	3,138	18	75.8	+ 0.4	98	4	54	23	34	2.98	+ 0.42	1.52	0.0	7	18	10	3	se.	R. M. Chelf.
Concordia	Cloud	1,398	25	77.9	− 0.2	99	5	58	23	29	7.86	+ 4.24	2.14	0.0	14	8	23	0	se.	U. S. Weather Bureau.
Densmore	Norton	2,200		77.2		97	4†	47	23	39	2.50		0.69	0.0	7	12	15	4	e.	F. S. Griffith.
Dresden	Decatur	2,731	15	77.0	+ 2.2	98	4†	53	23	34	3.44	− 0.45	1.43	0.0	6	15	6	10	se.	Jacob Bock.
Ellsworth	Ellsworth	1,537	5	77.5	+ 0.3	102	5	55	23	36	6.05	+ 1.72	2.30	0.0	9	13	12	6	s.	George Seitz.
Enterprise	Dickinson	1,144	7	77.8[b]	+ 0.5	98[b]	5	58[b]	22†	31[b]	8.86	+ 4.66	2.95	0.0	12	15	11	3	s.	G. F. Wagner.
Eskridge	Wabaunsee	1,412	3	76.2		95	5	59	23	25	12.19		5.22	0.0	13	22	7	2	s.	G. D. West.
Farnsworth	Lane	2,850	8	76.8	+ 1.0	95	29	57[l]	13	35[l]	4.82	+ 1.27	1.64	0.0	11	19	11	1	s.	C. M. Jennison.
Ft. Scott	Bourbon	857	13	77.2	− 0.5	96	3	52	24	33	7.83	+ 3.07	2.85	0.0	12	21	0	10	sw.	E. A. Shaver.
Frankfort	Marshall	1,146	15	78.3	+ 0.1	101	3	53	24	33	7.57	+ 2.57	1.42	0.0	12	11	17	3	ne.	E. C. Dunham.
Garnett	Anderson	950	3	77.9		94	3	61	13	28	14.06		5.49	0.0	13	19	11	1	s.	J. S. McCartney.
Goodland	Sherman	3,687	3																	G. L. Calvert.
Gove	Gove	2,750	20	76.5	− 0.5	95	4	60	11†		2.37	− 1.28	1.07	0.0	7	11	20	0	se.	Jesse Royer.
Hanover	Washington	1,225	6	78.3	+ 0.7	99	29	55	23	33	7.29	+ 3.16	2.00	0.0	13	20	7	4	s.	August Jaedicke, jr.
Harrison	Jewell	1,804	8	76.5	+ 0.5	97	3†	50	23	34	6.05	+ 0.90	2.78	0.0	9	21	5	5	se.	Mahlon Tegley.
Hays	Ellis	2,000	21	77.6	+ 0.8	99	21	59	13	32	3.71	+ 0.19	1.04	0.0	7	14	15	2	se.	G. K. Helder.
Hill City [m]	Graham	2,134	1	88.4[k]		97	3†	49[l]	22	29			2.29	0.0						L. R. Mort.
Horton	Brown	1,188	20	75.2	− 0.7	93	2†	57	23	27	8.96	+ 4.57	3.58	0.0	11	22	4	5	s.	Mrs. S. C. Belden.
Hoxie	Sheridan	2,700	12	77.6	− 0.4	99	4	52	23	38	3.21	+ 0.21	1.65	0.0	5	17	11	3	se.	C. T. Dallam.
Jewell	Jewell	1,540	4	77.2[c]		101	5	55	25	34[f]	8.32	+ 2.46	2.50	0.0	9	19	6	6	s.	C. A. Shinn.
Lawrence	Douglas	874	12	76.2	− 1.1	92	5	62	23†		6.47	+ 1.67	1.67	0.0	13	14	12	5	s.	H. P. Cady.
Lebanon	Smith	1,812	11	77.8	+ 1.9	98	3	56	23	30	6.21	+ 1.88	1.85	0.0	10	23	4	4	se.	Dr. W. C. Bower.
Lindsborg	McPherson	1,333	3								4.14		1.41	0.0	6	18	0	13	s.	J. R. Lynch.
Manhattan	Riley	1,014	19	78.2	+ 0.4	97	3†	55	23†	30	9.81	+ 5.03	2.15	0.0	14	15	4	12		Dr. C. P. Blachly.
Mankato	Jewell	1,784		77.3		98	21	55	23	31	6.33		2.00	0.0	12	21	2	8	s.	R. M. Cauthorn.
Minneapolis	Ottawa	1,259	19	77.6	− 1.3	98	5	57	23†	29	5.62	+ 2.55	1.19	0.0	15	19	9	3	s.	J. L. Steele.
Moran	Allen	1,098	13	78.5	+ 0.7	97	3	57	23	30	6.77	+ 1.66	2.29	0.0	11	16	11	4	se.	C. J. Norton.
Norton	Norton	2,284	11	77.0	+ 2.5	97	20	49	22	39	2.59	− 1.06	0.66	0.0	7	19	9	3	se.	H. A. Sleffel.
Oberlin	Decatur	2,539	18								2.22	− 1.40	1.04	0.0	7	25	6	0	s.	I. K. Huber.
Oketo	Marshall	1,194	1	77.5		95	3†	56	23†	28	6.45		2.20	0.0	13	17	10	4	sw.	J. A. Church.
Olathe	Johnson	1,032	14	76.8	− 0.2	94	3	56	23†	29	5.44	− 0.04	1.88	0.0	15	16	9	6	se.	Dr. S. B. S. Wilson.
Osage City	Osage	1,081	9	77.3[a]	− 0.1	99[a]	3	55[a]	24	31[a]	18.67	+13.90	9.65	0.0	9	17	2	11	s.	W. C. White.
Ottawa	Franklin	926	15	76.4	− 1.0	96	3	52	24	32	11.76	+ 6.60	5.77	0.0	11	19	9	3	se.	Dr. W. J. Norton.
Phillipsburg	Phillips	1,939	16	77.2	+ 0.4	97	3†	56	23	33	3.44	+ 0.70	0.98	0.0	18	11	2	2	se.	N. E. Bailey.
Pleasanton	Linn	862	7	76.0	− 0.9	91	5†	56	24	23	10.83	+ 6.66	4.20	0.0	11	22	7	2	s.	B. F. Blaker.
Republic	Republic	1,495	7	74.5[c]	− 1.3	97[c]	4†	55[c]	13†	39[c]	7.20	+ 1.70	2.42	0.0	11	16	5	7	s.	F. B. Potter.
St. Francis	Cheyenne	3,288	1	76.4		101	20	51	13†	42	2.42		1.00	0.0	8	13	15	3	se.	J. E. Uplinger.

TABLE 1.—*Climatological data for July, 1909. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Kansas—Cont'd.																				
Salina	Saline	1,227	24	78.2	− 1.4	100	3†	56	23†	33	5.66	+ 1.92	1.73	0.0	13	13	16	2	s.	Prof. A. W. Jones.
Scott	Scott	2,971	3	77.6	.....	96	4	57	22	37	4.69	.....	1.39	0.0	8	16	9	6	s.	J. B. Loughran.
Topeka	Shawnee	997	23	78.0	+ 0.4	97	29	60	24	39	11.60	+ 6.75	5.11	0.0	13	18	9	4	se.	U. S. Weather Bureau.
Valley Falls	Jefferson	913	10	76.4	+ 0.6	95	5	56	24	27	11.16	+ 6.61	4.00	0.0	12	20	10	1	se.	Miss Nettie Maxwell.
Vinland	Douglas	880	....	76.1	.....	92	3	55	24	28	7.93	.....	4.28	0.0	9	14	8	9	se.	A. Schick.
Wakeeney	Trego	2,456	5	76.5	− 0.6	95	29	53	23†	31	3.43	− 0.04	1.34	0.0	8	22	6	3	se.	A. S. Peacock.
Wallace	Wallace	3,303	39	76.2	+ 1.9	98	21	55	13	38	2.61	− 0.73	0.53	0.0	8	5	26	0	se.	M. T. Griggs.
Wamego	Pottawatomie	1,002	16	.....	.....	.....	.....	.....	.....	.....	9.95	+ 4.81	2.50	0.0	9	14	12	5	sw.	M. L. Stone.
Missouri.																				
Albany	Gentry	.....	2	.....	.....	.....	.....	.....	.....	.....	10.93	.....	3.86	0.0	11	19	3	9	s.	W. E. Elder.
Amoret	Bates	850	0	74.8	.....	97	4	49	23†	39	15.25	.....	6.45	0.0	10	22	2	7	s.	C. L. Glassmire.
Appleton City	St. Clair	853	18	78.7	+ 1.0	98	3†	56	24	41	10.54	+ 5.22	3.40	0.0	10	17	11	3	s.	T. C. Brown.
Arlington	Phelps	695	23	.....	.....	.....	.....	.....	.....	.....	4.80	+ 1.72	1.60	0.0	10	9	9	13	.....	P. W. Andres.
Arthur	Vernon	767	16	77.4	+ 1.2	95	29	58	21	32	6.33	+ 1.90	2.31	0.0	12	16	13	2	sw.	J. T. Armstrong.
Avalon	Livingston	.....	24	76.4	− 0.4	94	2†	75	21	32	6.30	+ 1.67	3.10	0.0	11	22	7	2	sw.	F. G. Ashbaugh.
Bagnell	Miller	594	14	.....	.....	.....	.....	.....	.....	.....	7.46	.....	1.70	0.0	7	14	4	12	c.	W. S. Brockman.
Bethany	Harrison	881	19	74.3	− 0.5	94	29	54	15	32	14.01	+ 9.63	10.71	0.0	10	20	3	8	se.	W. H. Skinner.
Bolivar	Polk	1,070	21	76.5	+ 0.5	97	6	51	24	34	9.37	+ 5.78	4.87	0.0	13	14	16	1	sw.	E. Waltz.
Boonville	Cooper	600	33	.....	.....	.....	.....	.....	.....	.....	6.18	+ 1.88	2.20	0.0	10	15	3	13	se.	C. Randecker.
Brunswick	Charitan	651	30	77.6	+ 0.8	102	18	60	25	32	7.28	+ 2.77	2.17	0.0	8	11	4	16	e.	Louis Beneke.
Clinton	Henry	800	7	79.0	.....	98	3	55	24	35	6.81	.....	2.58	0.0	11	19	11	1	s.	Dr. G. W. Mences.
Columbia	Boone	784	18	75.2	− 2.2	93	6	55	24	30	4.78	+ 1.03	1.28	0.0	14	13	9	9	e.	U. S. Weather Bureau.
Conception §	Nodaway	982	24	74.8	− 0.7	95	29	56	23	31	6.16	+ 1.84	2.30	0.0	8	13	9	9	se.	Fr. Adhelm Hess.
Darksville	Randolph	826	18	75.2	− 0.8	91	6	58	4	27	5.25	+ 1.05	2.25	0.0	7	18	6	7	s.	W. H. Broadelus.
El Dorado Springs	Cedar	750	3	77.7	.....	96	30	54	2†	36	4.47	.....	1.96	0.0	10	19	10	2	sw.	Samuel Graham.
Fairport	De Kalb	920	15	.....	.....	.....	.....	.....	.....	.....	7.27	.....	3.85	0.0	10	20	3	8	sw.	J. W. Lincoln.
Fayette §	Howard	725	26	75.0	− 2.3	90	2†	58	25	28	3.97	− 0.01	1.51	0.0	10	18	4	9	.....	T. Berry Smith.
Fulton *	Galloway	818	18	75.2	− 1.4	93	2†	54	20	31	3.84	− 0.93	1.15	0.0	12	17	7	6	.....	Mrs. Ruth McKinney.
Gallatin	Daviess	803	16	.....	.....	.....	.....	.....	.....	.....	5.73	+ 1.03	2.50	0.0	9	21	6	4	s.	Dr. W. P. Young.
Glasgow	Howard	618	30	.....	.....	.....	.....	.....	.....	.....	3.96	+ 0.14	0.78	0.0	8	13	5	13	s.	J. J. Shaughnessy.
Grant City	Worth	1,130	17	74.8	.....	85	29	55	4	29	10.33	+ 5.17	4.92	0.0	14	18	5	8	s.	W. H. Campbell.
Harrisonville	Cass	912	37	77.8	+ 0.4	96	5	57	24	32	7.01	+ 3.00	1.80	0.0	13	13	2	16	sw.	A. J. Sharp.
Hazelhurst	Livingston	.....	16	.....	.....	.....	.....	.....	.....	.....	6.57	+ 2.59	2.90	0.0	6	.....	.....	.....	.....	W. H. Baker.
Hermann	Gasconade	482	35	.....	.....	.....	.....	.....	.....	.....	3.90	− 0.06	1.06	0.0	11	13	5	13	se.	C. T. Maushund.
Houston	Texas	1,280	17	75.0	− 0.9	92	3†	50	24	31	8.21	+ 3.99	2.55	0.0	9	4	26	1	s.	E. Dempsey.
Huntsville	Randolph	790	6	.....	.....	.....	.....	.....	.....	.....	5.80	.....	2.25	0.0	5	.....	.....	.....	.....	F. H. Hammett.
Jefferson City	Cole	628	27	76.6	− 1.5	98	2	55	20†	40	2.75	− 1.06	1.07	0.0	9	18	5	8	n.	Miss Emma Swift.
Kansas City	Jackson	963	21	77.8	+ 0.2	94	3	63	12	23	6.34	+ 1.50	1.79	0.0	12	15	11	5	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,017	16	75.4	− 0.8	93	29	58	23	26	7.84	+ 3.45	2.62	0.0	14	14	3	14	sw.	J. F. Sharp.
Lamonte	Pettis	863	21	76.8	.....	94	2†	53	24	35	5.35	+ 0.69	1.85	0.0	15	13	15	3	sw.	J. R. Wade.
Lebanon	Laclede	1,265	20	75.7	− 0.9	93	6	54	24	28	6.27	+ 1.70	3.53	0.0	10	12	14	5	se.	M. W. Serl.
Lexington	Lafayette	813	27	77.0	+ 0.6	93	3†	58	21†	31	6.10	+ 0.92	2.80	0.0	12	14	0	17	s.	J. W. Keithley.
Liberty	Clay	864	21	76.8	− 0.5	92	2†	60	23	25	5.96	+ 1.28	1.66	0.0	11	19	9	3	sw.	J. W. Kyle.
Lockwood a	Dade	1,088	14	78.0	.....	94	30	56	24	29	5.11	− 0.45	2.51	0.0	10	22	5	4	ne.	C. S. Crow.
Marshall	Saline	779	18	76.7	+ 0.3	93	2†	55	21†	34	5.20	+ 0.92	2.00	0.0	12	18	6	6	sw.	W. H. Black.
Marshfield c	Webster	1,492	0	77.1	.....	94	13	51	24	42	7.38	.....	2.50	0.0	10	11	7	9	sw.	Dr. J. P. Keller.
Maryville	Nodaway	1,160	19	75.3	+ 0.1	96	29	57	23†	29	10.70	+ 5.16	6.00	0.0	15	15	9	7	sw.	J. R. Brink.
Mt. Vernon	Lawrence	1,480	33	77.8	+ 0.2	94	30	52	34	24	6.70	+ 1.35	2.00	0.0	11	11	20	0	ne.	Dr. O. H. Brown.
Nevada	Vernon	869	15	.....	.....	.....	.....	.....	.....	.....	5.61	+ 1.53	1.81	0.0	9	21	9	1	sw.	C. Jewell.
New Palestine	Cooper	795	17	76.4	− 1.1	94	6	57	21	33	5.54	+ 1.31	2.11	0.0	5	21	8	2	sw.	A. I. Zeigle.
Oregon	Holt	1,113	54	75.2	0.0	95	29	53	13	31	6.23	+ 1.72	3.54	0.0	10	20	5	6	se.	Tom Curry.
Osceola	St. Clair	738	9	.....	.....	.....	.....	.....	.....	.....	7.98	.....	3.10	0.0	9	17	3	11	.....	W. E. Matthews.
Parkville	Platte	.....	0	77.1	.....	96	3	58	23	27	7.76	.....	1.75	0.0	13	15	13	3	s.	Prof. A. D. Wolfe.
Rolla	Phelps	1,092	28	76.8	.....	93	2†	55	24	32	4.65	+ 0.50	1.85	0.0	9	16	8	7	sw.	Prof. P. J. Wilkins.
St. Charles	St. Charles	614	31	77.4	0.0	97	2	54	4	31	6.86	+ 3.42	2.31	0.0	8	16	10	5	s.	L. C. Saeger.
St. Joseph	Buchanan	825	37	79.5	.....	97	29	58	24	29	5.80	+ 1.87	2.90	0.0	14	21	7	3	e.	Grant Forbes.
St. Louis	.....	567	39	77.0	− 2.1	96	2	57	4	24	7.34	+ 3.91	3.27	0.0	13	10	16	5	se.	U. S. Weather Bureau.
Sublett	Adair	1,000	29	73.8	− 2.1	94	1	53	5	28	12.60	+ 8.50	3.50	0.0	8	10	14	7	sw.	Erres Spriggs.
Trenton	Grundy	812	14	76.6	+ 0.8	91	18†	59	23†	26	8.39	+ 4.45	2.65	0.0	9	21	4	6	se.	J. H. Flesher.
Unionville	Putnam	1,672	16	73.2	− 3.9	94	29	57	4†	30	9.92	+ 5.64	5.21	0.0	10	12	5	14	s.	Geo. W. Davis.
Versailles	Morgan	1,021	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Warrensburg	Johnson	883	30	77.5	− 0.9	95	3	58	23†	24	6.49	+ 2.23	1.47	0.0	12	16	11	4	sw.	Prof. S. F. Prince.
Warrenton	Warren	865	19	76.2	− 1.2	97	2	54	4	3†	4.63	+ 0.78	1.27	0.0	10	12	4	15	s.	John H. Frick.
Warsaw	Benton	700	5	78.8	.....	98	3	55	21†	38	8.00	.....	3.70	0.0	13	13	16	2	sw.	Dr. J. R. Smith.
Wheatland	Hickory	920	17	.....	.....	.....	.....	.....	.....	.....	6.76	+ 2.60	4.05	0.0	12	16	13	2	s.	Mrs. S. A. Jackson.

* Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
** Precipitation included in that of the next measurement.
† Also on other dates.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.
a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

TABLE 2.—*Daily precipitation for July, 1909. District No. 6, Missouri Valley.*

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Wyoming.																																	
Arapahoe	Big Horn				.49	.06														T.	T.						.07						0.62
Barnum	Powder			.25	.04					T.										.40							.30						0.99
Basin	Big Horn										.13											.14						.50					0.77
Bennett	North Platte				.50														.51					.54	.14		.35						2.04
Cheyenne	South Platte				.25	T.		T.		T.				T.		T.			T.		.22			T.	.05		.39	T.	.14	.03			1.08
Cheyenne Exp. Farm	...do				.31	T.		.02		T.						T.			.08		.07				T.		.38	.03		.08			0.97
Chugwater	North Platte				.30		T.											T.							T.		T.	.60			.50		1.40
Clark	Clark's Fork		.13	.21	T.	.19				T.	T.	.06					.04								T.	T.	.87	.05			T.		1.55
Crystal Lake Reservoir	South Platte				.84	.01	.01									T.		T.		.47				T.	1.00		.17						2.50
Douglas	North Platte										.26	.02							.01	.06					.02		.04						0.41
Dubois	Big Horn			.03	.12	T.					T.													T.			.41						0.56
Eaton's Ranch	Tongue	T.	T.							T.		.07									.10				.45			.04					0.66
Echeta	Powder			.54		.87						.56																					1.97
Elk Mountain	North Platte					.29														.22	.10				.75		.06	.05					1.47
Encampment	...do				.80	.20								T.		T.				.37	T.	T.		.25	.50		.01	.02	T.				2.15
Ervay	...do				.31	.04											T.	T.	.05	T.					T.		.35	.09					0.84
Filmore	...do				.90														.13	.31													1.44
Fort Laramie	...do					.09	T.										T.											.29					0.38
Gillette	Powder				.67	1.10				T.	T.	.12								.08	.27	.68											2.92
Granite Canyon	South Platte				1.00	T.		.02		T.				T.	T.				.07	.03	.08	.65		.02	T.		.22		T.				2.09
Hunter's Station	Powder		.03			.34					.04	.07									.09			T.	.09		.11						0.77
Hyattville	Big Horn				.05																							.02					0.07
Independence	North Platte				.35	.40													T.	T.							.30						1.05
Kaycee	Powder			.47					T.										.41	.39	.31					.52							2.10
Kirtley	Niobrara										.34														T.		.15						0.49
Kirwin	Big Horn			.20	.05	T.	.10				T.	.13	T.							.08	.40					.10	.13	.75					1.94
Knowles	Belle Fourche			.02	.47	.10	T.			.72	.08	.02									.42	.42					.05	T.				.02	2.32
Lander	Big Horn			T.	.07	.11													T.								.11	.02					0.31
Laramie	North Platte				.04	.40	.25														.20			.04				.07					1.00
Leo	...do			T.	T.														T.	.14	.06			T.	.04		.20						0.44
Lolabama Ranch	Clark's Fork		.80	.10																						.20	.30						1.40
Lovell	Big Horn			.20								.02							T.		.06						.10	.29					0.67
Lusk	Niobrara					.75																											0.75
Luther	South Platte				T.	.81	.79	T.													T.							.25			.30		2.15
Manville	Niobrara					T.					.40							T.	.08		.19				.05		.04		.05				0.81
Moorcroft	Belle Fourche																			.60	.34												0.94
Moore	North Platte																		.01	.01							.06						
Newcastle	S. Fork, Cheyenne				1.31		T.			.24		.06							T.	.32		T.			.11		.02						2.06
Pathfinder	North Platte				.11															.07							.22						0.40
Phillips	...do				.32	1.40					1.41						T.	T.							.30		.29		.50				4.22
Pine Bluff	South Platte					T.		.16			T.					T.		.14									.29	T.					0.59
Powell	Big Horn				T.						.02										.04						.10	.13					0.29
Riverton	...do				.16															T.	T.				T.		T.	.17					
Saratoga	North Platte				.23									T.					.14	.06	T.			.59	.08		.09						1.19
Sheridan, (1)	Tongue		.01	.07						.05	.38	.30							T.	T.	.08			T.	T.		.01	T.					0.90
Sheridan, (2)	...do			.24							.47	.25									T.												0.96
Shoshone Dam	Big Horn			.71	T.						T.	T.								.02	.10				.01	T.	.14	.19					1.17
Soldier's Home	Powder			T.	.04	.05					.05	T.								.13						.19	T.						0.96
South Pass City	North Platte			.54	.31	.09														T.				T.		.05		.05	.21				1.25
Thermopolis	Big Horn			T.		T.	T.														T.				T.		T.	.04					0.04
Upton	S. Fork, Cheyenne				1.03															1.04		.05											2.12
Valley	Big Horn			.75	.02		.04					.16									.27					.29	.30	.40	.01				2.24
Verona	Tongue			.50							.41	.09																					1.00
Wiley	Big Horn		.12	.90						.05	.04	T.								.02	.15			T.	.20	T.		.20					1.68
Wyncote	North Platte				.12					.40																	.30						0.82
Yellowstone Park	Yellowstone		.16	.01	.31	T.			T.	.20	.01	.01							T.	T.	.42			.08	.21	T.	.34	.09	.01	T.	T.		1.85
(1) Fountain	Madison			.33	.33						T.	T.							T.		.33			.22		T.	.24	.38					1.83
(2) Grand Canyon	Yellowstone			.31	.15							.14								.50	.30			.04	.39	.60	.52	.25					3.20
(3) Lake Yellowstone	...do			.03	.40	.40						.15									.44				.18	T.	.67	.36					2.63
(4) Norris Geyser B.	...do		.20	.30	.55				.10											.11					.18		.45	.10	.28				2.25
(5) Riverside	Madison			.50		.28					.08	.03							.03	.11	.22			.11			.20	.16	.09				1.81
(6) Soda Butte	Yellowstone								T.	T.		T.									.35	T.	T.		T.		.45	T.					0.80
(7) Sylvan Pass	Big Horn			.72								.38									.25						.32	.44					2.11
(8) Thumb	Yellowstone																				.66			.24	.24	.20	.75	.38					2.47
(9) Tower Falls	...do			.25		.30																											0.55
(10) Up. Geyser Basin	Madison				.50																			.60									1.10
Montana.																																	
Adams	Yellowstone		T.	.26	.30		T.					.16	1.07					.20				1.23					T.	.05	.05				3.32
Adel	Missouri		T.	1.46	.64	.51	1.63	.05	T.		T.							T.		.05		.09		T.		T.	1.00	.16	.15	T.			5.74
Agricultural College	Gallatin																																
Augusta	Sun River			.11	T.	.56															.58						1.98	2.28					5.51
Babb	Milk River				.80		.41																				.89	1.73	2.23				6.06
Bald Butte	Missouri		.03	T.	.17	.37	T.		.05	.17	T.									T.	.34	.02		T.	.03	.01	.46	.80	T.				2.45
Big Creek	Yellowstone			.36	.07					.05	.09										.55			.16				.06		.05			1.39
Billings	...do				.02			.18	.02			T.	T.							T.	T.	.68			.02			.40	.82		.02		2.16
Boulder Nursery	Jefferson					.02	.17	T.		.42	.17	T.									.81	.11		.11	.12	T.	.77	.50					3.20
Bowen	...do			.03	.02		.23	.01		.12	.03	T.								.06	.30			.01	.10		.02	1.33	.05				2.31
Bridger	Yellowstone		.07	0.2		.14															.36						.21						0.80
Broadview Exp.Stat'n.	...do			.08			.01			.18	T.	.01							.02		1.01			.02			.15	.42					1.90
Browning	Marias				T.	T.	.42	T.	T.															.51	.50	.42	.12	.14					2.11
Busby	Yellowstone																																
Busteed	...do			.15			T.		T.	.28	T.										.34			T.			.37	.50				.03	1.67
Butte	Jefferson		.10	.50	T.	.20	T.	T.	.60	T.	.20	T.							T.	T.	.60			.10		T.	1.10	.10	T.				3.50
Canyon Ferry	Missouri					.34	.81	.03			.11	.07								.04	.52	.16		.02			.20	.13	.04				2.47
Cascade	...do		.02	1.37	.34	.05	.63	T.		.01	T.							.06		T.	.43	.09		.02	.01	T.	1.04	.26	.07				4.40
Cataract Creek	Jefferson		.21		.29	.31	.04	.01		.03	.41									.31	1.08			.50	.03		1.60	.03					4.85
Chessman Reservoir	Missouri					.16	.18	T.			.12									.10	.53	.30		.16	.10	T.	.50	1.00					3.15
Chester	...do			.30	.15	.02											T.	.07										1.00					1.54
Chinook	Milk River							.18		.19	T.	.10						T.	T.		.53					.56	.84	.47	T.				2.87
Chouteau	Missouri	.40																									2.20	2.30					4.90
Clear Creek	Milk River			.11	.17	.46	.20	.21			.34	.07										.56					.98	.86					3.96
Clemons	Missouri			.06	.55	.01	.77														.56			.11			1.37	2.46	.02				5.91
Columbus	Yellowstone																																
Copper	Musselshell			.12	T.	T.	.70	.07	T.		.15						.01			.35	.82			.05		.01	.50	.02	.20				3.00
Crow Agency	Big Horn							.06				.05								.09							.18	.31					0.69
Culbertson	Missouri			.96			.26	.39				.03	1.22									.79		T.	T.			.18					3.83
Cut Bank	Marias			T.			.33																				1.50	1.85	.38				4.06
Decker	Tongue			T.													T.									T.							T.
Deep Creek	Missouri					.80			.22		.38									.11	.91				.06		.41						2.79
Delphine	Musselshell			.03		.11	.65		.02	.04	.11	T.								.35	1.42	.50		.30		.03	.20	.09	.01				3.86
Denton	Missouri	T.	.20	.66	.06	.31	.93	.36			.04							T.	T.	.25	.70	.17		T.	T.	.23	.15	1.30	.10				5.46
Dillon	Jefferson			.62	T.	.09		.04	.11	T.	.07			.01						.07	1.11				.17		.25	1.14	.01	.09			3.78
Dirty Creek	Musselshell			.02		.23	1.24			.15	.06	.02						.06			1.37	.05			.09	.01	.03	1.36	.13				4.82
Dry Creek	Missouri					.03	.65		.60	.49	.12									.36	1.22				.03		.52		.08				4.10
Dry Wolf Camp	...do				.01	.40		.05		.11	.07						.35		.01	.08	.63						.30	.07	.14				2.22

TABLE 2.—*Daily precipitation for July, 1909. District No. 6*—Continued.

Stations.	River basins.	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	Total.
Montana—Cont'd.																																	
E. Gallatin River	Gallatin			.01		T.	T.			.20	.90	.23									.56				T.		.35	T.		.11			2.36
Ekalaka	Little Missouri			.10	.24			.90				.05									.45	.37						T.		.14			2.25
Elkhorn	Jefferson			.04	.04	.01	.02	.07		.03	.02	.07						.03		.01	.45	.50	.01	.10	.04	.01	.20	.40					2.05
Evans	Missouri																																
Fallon	Yellowstone			T.	.70			.05		T.		.32								.06		1.13			T.								2.26
Family	Marias			.15																						*	3.04	1.37	.40				4.96
Fish Creek	Jefferson																																
Fish Tail Creek	Yellowstone		.19	.20	.05		T.			.31		.02								.37							.18	.03		.06	.15		1.56
Flathead Creek	...do																																
Forsyth	...do			1.10			.20	T.			.37	.02							.30		.50	T.			T.		T.	T.	T.				2.49
Fort Benton	Missouri			.03	.16	.19	.70	.05	.12		.70										.25			.34			.17	.23	.92				3.86
Fort Shaw	Sun River			.20	.03		.90				.03							T.			.28	T.			T.		.98	.96	.15				3.53
Foster	Big Horn							.06		.06	.22	.09							.03	.19	.11					.01	.05	.15					0.97
Garnell	Musselshell			.30	.03		.15	.15		.12	.08						.20			.24	.66	.20		.03		T.	.36	.54	.03				3.09
Glendive	Yellowstone				.78			.10		.21	T.	1.64	.18					T.		.06	*	1.20			T.		T.	T.	T.				4.17
Goldbutte	Marias			1.00			.60	.15		.10	T.	.01		T.												T.	.92	.55	.15				3.48
Graham	Powder			.90							.50									T.	.15												1.55
Grayling	Madison		.31	.44	.08	.23															.04			.06			.27	.28	.03				1.74
Great Falls	Missouri		.06	.32	.67		.91	T.			.12							T.			.16	.14		.11	.61	.14	1.03	.67	.51				5.45
Half Moon Pass	Musselshell																																
Half Way House	Missouri			.09		.53	.07		.15		.63	.08								.59	1.10			.09	.05		.32	.03	.19			.02	3.94
Harlowton	Musselshell			T.		.57					T.											1.05				T.	T.	.82					2.44
Hassel	Missouri			.24	.32	.18	.75	.03	.12	.12	.04	.03								T.	.96	.40		T.			.60	.05					3.84
Havre	Milk River			.15		.52	.20	.02		.81	.03	T.	T.	.01			T.	.10			.07	.05				.06	.50	1.31	.05				3.88
Helena	Missouri			.05	.10	.22	T.	T.	T.		.08	T.						T.		.09	.50		T.	.02	T.	T.	.45	.33	T.				1.84
Highwood	...do			1.02	*	.48	.90	.11			.13						T.	T.		T.	.44	.50			.22	.02	.26	.65	.55	.01			5.29
Homepark	Jefferson			.40		.18			.11		.18									.81				.17				.26	.22	.05			2.38
Huntley	Yellowstone																					.28					.23	.82					1.33
Jones Canyon	Gallatin			.10					.20	.10	1.00					.08	.08			.10	.02			.10	T.	.02	.35	.10	.10	T.	.10		2.45
Jordan	Missouri			1.45				1.54					.05					.10			.24	.59					.65	.09					4.71
Kleinsmith Creek	Jefferson			T.	.11		.31			.39	.02	.03								.05	.77			.15		.21	.30	.47					2.81
Lewistown	Missouri	.67		.42			.24	T.												T.	.09	1.45					.33	.88	.12				4.20
Livingston	Yellowstone			.05					.30	.06	.29	.05									.41				T.		.48	.04		T.		T.	1.68
Lodge Pole Creek	...do			.70	.10					.30	.35			T.							.40			T.	T.					T.	T.	T.	1.85
Lone Tree	Missouri			1.78	2.70		.75				.20										.20	.67			.30			2.05	.10				8.75
Lost Horse Creek	Musselshell			.06	.29	.09	.40	T.	T.	.30	.11	T.					T.		T.	T.	.47	.07		.12	.01	.19	.06	.05	.04		T.	0.1	2.27
Lubec	Marias																																
Malta	Milk River			.28				.18				T.	.01				T.		.03			.45				T.	.01	.03	.26				1.25
Meadow Creek	Madison																																
Melstone	Musselshell			.10				.31		.04	.40										.80	.31					.22	.17					2.35
Mildred	Yellowstone			.07			.35				.57		T.								.62				.06			T.					1.67
Miles City	...do			.78				.04			.61	.01								.02	.60	.33			.06		T.	.18					2.63
Mill Creek	...do										.18	.10									.25						.01			.21			0.75
Moore	Missouri			.03			.55				T.						T.		T.	.85	.30						.33	.88	.12				3.06
Mudd Creek	Jefferson			T.	.15	T.	.16	.03		.18	.02	.08									T.	.34	.10					1.44	.17				2.67
Norris	Madison			.04	.01		T.		T.	T.	.60	.20	T.								.47			.20	.50			.32					2.34
Nye	Yellowstone		.01	.53	.16					.18	T.	.15									.38			.21	.08	.01	.42	.03				.03	2.19
Olsen Creek	Jefferson		.05	.25			.25				.14	T.								.16	.63			.28			.55	.68	.04				3.03
Pipestone Pass	...do		.07	.16	.40	.21		.02	.07	.09	.11						T.		T.	T.	1.15	.02		.13			.12	.84	T.				3.39
Poplar	Missouri				.35			.51				.14	.40									.68					T.		T.				2.08
Raymond	...do			.20	.10		.50	.70			T.	T.												T.		.55	1.45	2.00	.65				6.15
Reber's Ranch	Yellowstone																																
Red Lodge	...do		.25	.11		.03			T.	T.	.08									.04	.14				T.		.40	.03		T.			1.08
Reese Creek	Gallatin			.05						.13	.53										.63	.10			.05		.54	.05	.12				2.25
Renova	Jefferson			.03	.35	.17	.15			.14	.40						T.			.05	.85	.05		T.	.13		.12	.68	.04		T.		3.16
Rimini	Missouri			.01		.30	.49				.05	.29									.71			.14	.26		.03	1.32					3.60
Ryegate	Yellowstone									.13											.30			.05			.27	1.12	.08	.06			2.01
Sedan	...do			.03			.20		T.	.30	.30	.05									.48	.07		.32	T.		.47	.03	.09	.10			2.44
Springbrook	...do				1.21		T.				T.	.12	.23					.40	T.			1.02					T.	.40	T.				3.38
Stearns	Missouri			.03	.01		1.74	T.			.01	T.								.24							.66	2.45					5.14
Tokna	Yellowstone				.40	.05	T.	T.				.19						.29		.21		.55											1.69
Toston	Missouri				.53	.26			.07	.08	.19	.06					T.					1.10					.46	T.				T.	2.75
Townsend	...do				.33	.94	.55			.10	.03											1.00						1.20					4.15
Trail Creek	Yellowstone			.01					.28	.50	.11	.22									.42			.01			.05	.02	.02	.01			1.65
Utica	Missouri			.20	1.24	.45	.04		T.	T.							.70			T.	.40	.35					.50	.98	.11				4.97
Valentine	Musselshell		.03	.11				.01			.03		T.					.04	T.		.70	.83					.30	.04	.24			.02	2.35
Virginia City	Jefferson & Madison		.18	.21		.03	.05			.04	.23	.02									.65			.06		.04	.10	.13	.02	.05			1.81
Wall Rock Mountain	Missouri					.03				.15	.24	.40								.31	.62	.34			T.	T.	.50	.12				T.	2.71
Warm Springs Creek	Madison		.07	.14	.08	.06	.06		.27		.33	.03									.55			.13	.02		.16	.16	.47	.02	.02	T.	2.57
W. Rosebud Creek	Yellowstone		.10	.22					.10	.30										.03	.12			.06			.14	.19		.03	.03		1.32
Willow Creek	...do									*	.70										.41						.56		.03	.03			1.73
Wolf Creek	Missouri			.42		.86															.31					.08	.24	.35					2.26
Wolf Point	...do	.05			.34			.41	.06			.29	.48									.39					.20						2.22
Woodville	Jefferson			.04	.16	.11	.10	T.		.10	.25									.10	.60			.09	.11	.08	.21	.83	.06				2.84
North Dakota.																																	
Aplin	Knife	T.			.15			.17				T.	T.							T.	T.	.32			.01			.28	.15				1.08
Beach	Little Missouri						.88				.02	.08	.54							.08	.16	.52						.03	.05				2.36
Berlin	James				.10	.18	.06	.08	.28			.48	.45		.04						1.12	2.40							.33				5.52
Berthold Agency	Missouri		T.	.22		T.		.48				.06	.03	.01	T.			.01		T.	.10				.09			.18	T.				1.18
Bismarck	...do				.16	T.	.01	.23				.05	.02	.36					T.	T.	.10	.54			.35			.58	.01				2.41
Broncho	Knife		T.	T.	T.		T.	.01				.01	T.	T.								.02						.30	.07				0.41
Buford	Missouri							.40					.50					.12			.63								.03				1.68
Coal Harbor	...do																																
Dickinson	Heart	.03			.49	T.	T.	.03	.01			T.	.08	.05	.67					.02		.25	T.					.01	.24	.01			1.89
Edgely	James				.15		.16		.04			.28	.06		.05						.18	1.86							.26				3.04
Ellendale	...do	.67			.68	.10	.04	T.	.12			.30	.04	.04	.05							.46				.10			.08				2.68
Epping	Missouri				.09			.14	.24				.04	.29	.06			.15									.18	.13	.12				1.44
Fullerton	James				.29	.22	.17	T.				.46		.22							2.04	1.49	T.						.33				5.22
Haley	Grand			.07	.43	.03	.03	.06	.45			.08	.12					T.	T.	T.		.37					.04	.12				.13	1.93
Hettinger	Cannon Ball																																
Howard	Missouri	T.		T.	T.	T.	T.	.25				.01	.33	T.	T.			T.	T.		.01	T.			T.			.10	.04				0.74
Jamestown	James	.11					.11					.65	.25	.35	.02						.93	.52			.05			.75	.03		1.43		5.20
Kulm	...do																																
Lamoine	Missouri					.19						.96	T.			.02		T.			T.	1.28			.24			1.08					3.77
Lamoure	James				.08		.15		.10				.82	.08	.10						.12	1.57	.34			.06			.24				3.66
Manfred	...do							.80				.35		T.	.08							.53			.15			T.	.87				2.78
Marmarth	Little Missouri			.02	.75	T.		.85		.01	.04	.18	.03	T.					T.		T.	.20		.02			.02	.02			.06		2.20
Marstonmoor	James				T.		T.	T.				2.50		T.	T.			T.	T.	T.	.40	1.38	T.			T.			1.63	T.			5.91
Medina	...do			T.	T.		T.					1.20	.30	T.					T.									1.60					3.10
Medora	Little Missouri			T.				.50			.13	.20						.20				1.90			T.			.05					2.98
Melville	James					.03	T.					.63			T.					1.03		.66						.23	.08				2.66
Mott	Cannon Ball				2.26	.02		.37		T.		.05	.14	.08					.18		.86					.18					.19		4.33
Napoleon	Missouri					.13			.10			.14	T.	.17							.35	1.15			.42			.16					2.62
New England	Cannon Ball				.18	T.		.18					.45						.19			.18			.18			1.25		.18			2.78

TABLE 2.—*Daily precipitation for July, 1909. District No. 6*—Continued.

Stations.	River basins.	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	Total.
North Dakota—Cont'd.																																	
New Salem	Heart				.41	T.	T.	.08	.12			T.	.02	.35						.04		1.90			.03				.53				3.48
Orange	Cannon Ball		.11		.68		.02	.78				.18		.07						.07		.11			.16				.33				2.51
Palermo	Missouri																																
Steele	do				.18	T.	.05	T.				.20	T.	T.	.13						.33	1.45				.14		1.15	.47				4.10
Swartwood	Grand			.18	.28	.02	.01	.03	.12			.15	.03	.05						.02	.01	.37			T.			.16	.27		.37		2.07
Washburn	Missouri		T.		.25	T.	T.	.66					.01	T.	.03					.01		.47			.30	T.			.20		T.		1.93
Williston	do			.03	.01		.05	.53				.06	.13					.01				.70					.01	.04					1.57
Wishek	do	.20			.35	.10						.60	.20		.62						1.07	2.05				.25			.70				6.14
South Dakota.																																	
Aberdeen	James	.40			1.30	.20	.11		.20	.05	.25	T.	.20	.05	.50							.60				.60						.05	4.51
Academy	Missouri				.18	T.		T.		.05		.92			T.							.12									.93		2.20
Alexandria	James			T.	.72	T.				T.	.28				.53																.37		1.90
Andover	do								.06	.03					.20							.06				.90						.05	
Ardmore	Cheyenne				.90	.05	T.				.20	.23					.18		.30		.08						.15						2.09
Armour	Missouri			.10	.15	.02	.01	.05	.06	.09	1.00			.15								.05									1.09		2.77
Ashcroft	Little Missouri			.50		.03		.86			.56										1.11						.07	.79	T.	T.			3.92
Belle Fourche	Cheyenne				.24	.02				.41	.16	.01							.03	.24	.03	.20	T.		.03		.01						.06	1.44
Bowdle	Missouri	1.20			.87	.08			.35	.07		T.	.07		.38						T.	.35				.23						.66	4.26
Brookings	Big Sioux	.02			1.25	.37				.07		.13			.20																.40		2.44
Burke	Missouri					.05	.10			1.80		1.50													T.								3.45
Canton	Big Sioux		.07		1.12	.05	.32	.03		1.55		T.			.36							T.				.07					.12		3.69
Cascade Springs	Cheyenne				.58						.87																T.					.09	1.54
Castlewood	Big Sioux	.44			2.45	.02	T.	T.	.17	.03		.02	.02	T.	.10			T.													.17		3.42
Centerville	Missouri			.07	.84	.51	.04	.07	.02	.73	.47	.64			.80							.03				.26				T.	.53	.15	5.16
Chamberlain	do				.41	.20						.32		.15				.32														T.	1.40
Clark	James	.62			2.02	.03	T.		.92	.14		.18	.12	.02	.17			.05					.08			.44					.36		5.15
Clear Lake	Big Sioux				1.71	T.							T.	.26																	.40		2.37
Clifton	Missouri																																
Cottonwood	do				.08		T.	T.		1.35	2.18	.15							.42							T.							4.18
Davlston	do			.28	.60	.02	.01	.42	.20			.14		.27						T.	.06	.23			.40								2.63
Deadwood	Cheyenne			.10	.60	.05				.65								.25	.10	1.00	1.55	.35			.05								4.70
De Smet	James				1.15					T.		T.	T.		.40											T.					.25		1.80
Dowling	Cheyenne			.07	.05	.08				.45																							0.65
Dumont	do				.51					.63		.04							.02	1.71		.25		.26			.10					.05	3.57
Elk Point	Missouri					1.70	T.	T.	T.	1.25	2.08	1.10			.50							T.				.50					T.		7.13
Ellingson	do																																
Englewood	Cheyenne			.09	.21	T.				1.40	T.	.20						.08	T.	1.22	.47						.12						3.79
Eureka	Missouri	.05			.59			T.	.39	.07		.03	T.		.05						.06	.51				.11			.25		.05		2.16
Fairfax	do				.70	.50				1.95		1.50														.10					.10		4.85
Farmingdale	Cheyenne																																
Faulkton	James	1.53			2.80	.12		.01	.63	.14		T.	.16		.15						T.	.12				.08					.45		6.19
Flandreau	Big Sioux				1.27	.06				.06		.37			.15							.08				.04					.52	T.	2.53
Forestburg	James			T.	.65						.30	.35	T.		.38							T.									.15		1.83
Fort Meade	Cheyenne			.08	.44	.06	T.			.60	.04	.02						.05		.75	1.00	.15			T.								3.19
Frederick	James				.67	.21	.06		.34			2.92			.08							.15			.18								4.51
Gannvalley	Missouri			T.	.10			.15		.10	.37			.20				T.							T.						1.10		2.02
Greenmont	Cheyenne			.89	.81	.02				.59	.04	T.							1.05	.19	.96	.38			.06		T.						4.99
Greenwood	Missouri				.89	.04				3.24	.70																				.44		5.31
Hardy Ranger Station	Cheyenne				.69				.10										T.	1.20	.22	.42											2.63
Hermosa	do		.05	.92	.04	T.	.52			.14	.16	1.28																T.				T.	3.11
Highmore	Missouri	.05		T.	.15	.20	T.	T.	.40	.29		.10	T.		.36				.07												.19		1.81
Hill City	Cheyenne				.42		.03				.15					.08		.44	.01		.58				.50							.21	2.42
Howard	Big Sioux				1.37	.60	.10		T.	.70		.70	.10		.16							T.									.35		4.08
Howell	James	1.71		.01	1.32	.30	T.	T.	.53	.23		.22	.08		.08						.16					.15					.83		5.62
Huron	do	.01		.01	.64	.08	.02	T.	.10	.06	.05	.27	.02		.24			.09								T.					.83		2.42
Ipswich	do	.75		T.	.85	.02	T.	T.	.50						.01							.28				.01					T.		2.42
Kadoka	White				.15					1.10	.30	.10							.26														1.91
Kennebec	Missouri					.11	T.	T.			T.	.26																			.04		0.41
Kidder	James				.46			.27				.75										.80											2.28
Kimball	Missouri				.18		T.	T.			.03	.52			.59							.07	.28			.23					.47	.17	2.54
La Delle	James				2.20	T.	T.	.45	T.	.22		1.15									T.					.52					.20		4.74
Lead	Cheyenne			.18	.61	.37			.70	.04		.02						.31	.11	1.22	.36				.04		.05					T.	4.01
Lemmon	Missouri	T.		.28	.67	.10	T.	T.	.52			.22	T.	.08								.19			.70			.21	.02				2.99
Leslie	Cheyenne																																
Marion	Missouri			.26	.77	T.	.10	T.	T.	.15	.65		.56													.05					.17		2.71
Mellette	James	.45			1.84	.05			.84	.25		.05	T.		.05							.10				.60		T.			.20		4.43
Menno	do			.53	.29		.10			.40	.92				.90											T.					.12		3.26
Mitchell	James				.45				.05	.10		.15			.73																.70	.10	2.28
Murdo	White				.06					.65	.28																						0.99
Orman	Cheyenne				.31	.02				.52	.11	.01									.19	.13						.04					1.33
Ottumwa	Missouri									.63	.06																						0.69
Pierre	do				.23			T.		.26	.07		T.	.10	.06				T.			.01											0.73
Plankinton	James	T.			.18	.02	.03	T.	T.	T.	.49				.01																.25	.06	2.04
Pollock	Missouri				.80																	2.00				.10			.70				3.60
Rapid City	Cheyenne			.17	.28	.05	.03		T.	.19	.27	T.						.52		.28	T.											.01	1.80
Redfield	James	.35			2.40	.10		.03	.55	T.			.10	.05	.20							.55				.34						.15	4.82
Rosebud	White			T.	.35	T.		T.				1.00	T.								.02							.37				.30	2.04
Roslyn	Big Sioux	.43			.93				.32	.13		.02	T.		.17							.05				.83							2.88
Running Water	Missouri					.25				.50	1.50	.72																					2.97
Savoy	Cheyenne				.60	.02				.58	.08	.09							.27		.79	.56			.38			.02					3.39
Selby	Missouri				.93	.05					.10	T.	T.	.53				.10			.40				.37						.30		2.78
Sioux Falls	Big Sioux				2.60	T.	.33	T.		T.		1.30	T.		.20							.10									.15		4.78
Spearfish	Cheyenne																																
Stephan	Missouri			T.	.05	.20			.10	.18				.40				T.	T.		T.					.14					.88		1.95
Tama	Cheyenne			.07	.44			.22		.26	T.		.01						T.	T.	.90	.42			.12		T.						2.44
Vale	do				.39	.03				.61											.99	.12			.02								2.16
Van Metre	Missouri																																
Vermillion	do			.02	1.84	.12	.05	.05		1.22	.60	1.04			1.10							T.				.50					.33	.28	7.15
Water's Ranch	Cheyenne				.46					.79		.02							.05	.46	.11				.07		.01					.05	2.02
Watertown	Big Sioux	.02		**	1.42			**	1.50		**	.42		**	.02																T.		3.38
Wentworth	do				1.51	.09						.28																			.61		2.49
Wessington Springs	James			.24	.24	.07	.07	.04		.01		.50	.01		.55						.33											T.	2.06
White Lake	do																																
Yankton	Missouri				.62	.08	.02	.02		1.80	1.04	.18			.80							T.				.07			.05		.56		5.24
Minnesota.																																	
Pipestone	Big Sioux				.98	.42	.02				.13	.50		.25								.26									.27		2.83
Colorado.																																	
Akron	Republican						.03	1.38	.33															.04	.05		.03			.12			1.98
Alma	South Platte		.76	.82	.50	.05	.61							.10	.06	.02	.01		.30	.08	.03	.14	.31	.32	.03		.13		.03				4.30
Arriba	Republican					.83	.13				.46											T.		T.	.16				.58		.92		3.08
Auldhurst	South Platte																																
Barker	do			.02	.87	.28	.15									.07				.30	.35	.05		.50			.25		.12	.34			3.30
Boreas	do			.66	.28	.07		.11	.22							.18			.25	.53	.13			.14	.24		.21		.32				3.34
Boulder	do			T.	.14	.68	.43							T.						.04	.70		.06	.79			.10			.24			3.18
Burlington	Republican					.18		.30			1.10			.10			.12					T.		.05	.04	.30	T.				.45		2.64

TABLE 2.—*Daily precipitation for July, 1909. District No. 6*—Continued.

Stations.	River basins.	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	Total.
Colorado—Cont'd.																																	
Cassells	South Platte																																
Castle Rock	do			T.	.21	.12		T.	.60		T.				.04		T.			T.	.11		T.	.45	.05				.11			1.69
Cheesman	do			.15	T.	.05	T.	.15	.12	T.					.03	.17	T.			.20	T.	T.	.22	.22	.12		T.		.04	.10	T.	1.57
Cheyenne Wells	Smoky Hill				.62	1.14		.75						.37			T.								.78		.21		.51	.34	T.	4.72
Como	South Platte		.26	.13	.16	.45	1.09								.26							T.	.02	.03	.05			.27		T.		2.72
Cope	Republican				1.01	.55		.25		1.49			.25											.15	.40				.13		.02	4.25
Corona	South Platte					.48														.06	.06	.36		.12	.40	.08		.16					1.72
Denver	do			1.12	1.44	.15	.04		.93	T.				T.		T.		.01	T.	T.	.12		.16	T.	.01		.12	T.	.02	.05		4.17
Edgewater	do			.31	.92	.90	.20	.76						T.					.11		.07			.14	.01		.15	.01	.06	.01		3.65
Estes P'k. Fish H'y	do			.04	.50	.08								.32	T.	T.	T.	T.	T.		.02	.14		.09	.21	.32	.04					1.76
Fort Collins	do			.10	.07	.90	T.	.04		.01	T.			.01		T.					.73			.03	.03		.06					1.98
Fort Morgan	do				.10	.03			.35	.10	T.													.22	.03				.10	.11		1.04
Frances	do			.10	**	.34	.25								.05	T.				.10	.21		T.	.15	.06	.04	.25			.43		1.98
Fry's Ranch	do	.01		.15	.27	.01								.01		.04					.25			.01	.18		.02			.03		0.98
Georgetown	do			.14	.08	.15	T.		.17					.05					.16	.25	.19		.25	.64			.86		.08			2.57
Greeley	do			T.	2.03	2.60			.07	.15				T.						.04					.01		.06		.08	.10		5.14
Hartsel	do				.60	.04								.01			T.			T.		.21	.08	.10	.06		.02			T.		1.12
Hawthorne	do				.36	.13								T.						.26	.11		T.	.11	.03		.06			.10		1.16
Holyoke (near)	do																																
Idaho Springs	do			.35	.26	.10	.05							T.		.04					.30		.15	.46			.34		**	.15		2.20
Keota	do																																
Kossler	do																																
La Porte	do			.05	.50																.62						.07						1.24
Le Roy (near)	do							.12	.05	.15		.26					.41				.05			T.	T.			T.	.01	T.			1.05
Longmont	do			.03	.02	.08		.02		.03				T.							.14			T.	.12		.11			.18			0.73
Long's Peak (near)	do			.50	2.40	.01								.17	.02				.15	.06		.27		.15	.21	.05							3.99
Moraine	do																																
Platte Canon	do		.10	.12	.52		.32		.12	.04														.35					.20	.16			1.94
St. Cloud	do																																
Sedgwick	do											.76													.10	.10					.55		1.51
Sill Mine	do	T.		.14	.12				T.	.95				.10	.11	.06		T.	.18	.17	.45	T.	.85	.30	.40		.30	.06		.50			4.69
Spicer (near)	North Platte																																
Waterdale	South Platte			.17	.07	.64	T.							.08	T.						.68			.05	.29		.09						2.07
Westlake	do			.05	.53	T.			1.94	.13				T.		T.			.02	T.	.04			T.			.22			.48			3.41
Wray	Republican				**	1.03		T.	.04	.10						.26					.03				.25			T.			.04		1.75
Yuma	do				.83			2.42	.12	.57	.06					.62									1.10								5.72
Nebraska.																																	
Ainsworth	Niobrara			.01	.38	.06		.02		1.72		1.60			.02										T.	.26					T.	T.	4.07
Alliance	North Platte			T.			T.	T.		T.	.40														.01		.05	.02		T.	.03		0.51
Alma	Republican					1.69		.08	.01		.03	.87	.03				.03					T.			.49	.26		.02			.05	T.	3.56
Anoka	Niobrara					.80				1.80		.50														.14					.55		3.79
Ashland	Platte					.04	.96	.20	T.	.05	.03		.22	.06		T.	.61									.61	.03	.01			.02	.49	3.33
Atkinson	Elkhorn			.10		T.	T.	T.		T.	.90	.45			T.											.70						.20	2.35
Auburn	Little Nemaha					3.52	1.27	.03		.11		.21														.08	.54		.02		.18	.39	6.35
Beatrice	Blue			.20	.57	5.15	.70	.41			.31	.16	.02													.40	T.	.01		.08	.16		8.17
Beaver City	Republican					.25					.08	.93	.06				.02								.70			T.	T.	.55			2.59
Bellevue	Missouri				.10	1.10	1.01	.01	.01										.10							.54						.25	3.12
Blair	do				.73	.50	4.33	.09	.05	T.	.65	.09			.13											1.40	T.						7.97
Bloomfield	do				.04	.01				1.00	.20	.55			.15																.87		2.82
Blue Hill	Republican	.41				.53	1.40	.30			.26	.85														.50			.10		1.80		6.15
Bridgeport	North Platte				T.	T.		1.20		.02	.80											T.			T.			.30			.30		2.62
Brokenbow	Loup	.97	.95	.03	.97	.95	.03				.08	2.41			.03		.19									.62	.02	.01			.20	.42	6.93
Burge	Niobrara				.16						.60																	.35					1.11
Burwell	Loup												.65	T.		.28										.25							1.68
Callaway	do									.10	1.53	1.70					.20									.14						.26	3.93
Cambridge	Republican					T.	T.	T.	T.		T.	1.03					.36					T.			T.	.19		T.	.19		.70	.07	2.54
Canton (near)	North Platte				.02		T.	T.			1.15														.01			.17		T.			1.35
Columbus	Loup				.20	1.70	2.24		T.		.46	.97	.18		.07		.53					.01				.80	.27	.18				.32	7.93
Creighton	Missouri				.13	.04	.05	.02	.01	.61		.95			.02											.08					.53		2.44
Crete	Blue				**	3.47	.39	.02		.90			.05													.38	.01	.06			.05		5.33
Culbertson	Republican										.01	.65										T.				.10	.86		T.	.05	.03	.05	1.75
Curtis	do										.12	1.46																		T.		.10	1.68
David City	Blue			T.	2.21	.64	1.08			T.		.32	.20		T.							T.				1.25	.03	.16			T.	.11	6.00
Dawson	Great Nemaha				.18	1.14	2.64	.30	.02	.01	.46	.60	.24										1.98			.54	.02	.04	T.		.15	.02	8.34
Duff	Loup								.48	1.12	1.09					.09									.34					.17	.35	.52	4.16
Elsie	Republican	.10	T.								.40								.30							.10					.09	.47	1.46
Enderslake	Loup				.07				.05	.07						.03									.03						.04	.05	0.34
Ewing	Elkhorn					.88	.33			.50		.67					1.11									.38						.64	4.51
Fairbury	Blue				1.75	1.68	.28	.03		.48	.30	.07										T.			.36	T.	T.	.10		.56	.21		5.82
Fairmont	do	.04			.47	3.70	.32	T.			.13	.60	.09													.33	.03	.04	.08		.04	.33	6.20
Fort Robinson	Niobrara				.03	.01					.02	.09	.01				.21									T.		T.					0.37
Franklin	Republican				.58		.66	.37			.95	T.	.30				.03								.65		T.	T.	T.		1.10		4.64
Fremont	Platte				.85	.38	3.22		.06		T.	.60	.20		T.		T.									1.36	.05				.10	.32	7.14
Fullerton	Loup				1.01	1.20	1.10			.30	.40	1.04	.24													1.32					.25	.65	7.51
Geneva	Blue			.47	.34	3.82	.57	T.	T.	.35		.92	.02				T.					T.		T.		.34	T.	.09			.11	.02	7.05
Gordon	Niobrara			.02				.30			.34					.02					.02					.07							0.77
Gosper	Republican								T.	T.	.08	1.60					.16								.33		T.	T.	.26			.05	2.48
Gothenburg	Platte	.10				.10				1.40	.35	1.32					.36								T.							.10	3.73
Grand Island	do				.04	1.48	.03		.03		.08	1.34	.25													.87					.11	.12	4.35
Grant	Republican					.81		T.		T.	.73														.86						.15	.08	2.63
Greeley	Loup				1.22	.36						.11	.07			.16									.46	.55	.06	.01			.87	.14	5.01
Halsey	do			.60		.05				1.00	.20															.05				.07	.06	1.50	3.53
Hartington	Missouri				.22	1.20	T.	.12	T.		.95	.32			.22											.12	T.		T.		.08	1.46	4.69
Harvard	Blue				.27	1.86	.28			.04	.12	.98	.05												.62	.04		.02		.06		.35	4.69
Hastings	do					.83	.13				.06	.80						.67								.52			.03			.35	3.39
Hayes Center	Republican			.34	.01					.20															.05						T.	.10	0.70
Hay Springs	Niobrara				.12			1.00			.54					.12					T.				.10							.15	2.03
Hebron	Blue				.03	2.41	.95	.08		.25		.38	.10									T.			T.	.16		.10			.24		4.70
Holdrege	Republican	.06			1.30	.33					.20	.96					.21									.60							3.66
Hooper	Elkhorn				.14	.35	2.72	T.			.16	.08	.13		.08											1.53	.04				.59		5.82
Imperial	Republican			T.		.30	T.	T.		T.		.42					.16					T.			T.						.66	.05	1.59
Kearney	Platte								T.	.63	.90	1.03					.21									.88	T.	T.	T.				3.65
Kimball	South Platte					.16	.11		T.		.38					.15		T.			.15				.03		.78			T.			1.76
Kirkwood	Niobrara				.32					.82	.10	.67					.27								.36						.22		2.76
Kowanda	North Platte			.03							.23														.23		.07			.03			0.59
Lexington	Platte					.08				1.05	.33	1.10					.35								.14	.13			.12			.31	3.61
Lincoln	do			T.	2.44	.89	.19	T.	T.	.25		.23	.19		T.							T.				.51	T.	T.			.17		4.87
Loup	Loup																																
Loyal	Loup			T.	T.	T.				T.	.70	.70					.90									.50						.50	3.30
Lynch	Niobrara				.29	.30				2.20	.85																				.40		4.04
McCook	Republican											.68													.09	.42							1.19
Madison	Elkhorn				T.	.38	.90			.15			T.		.10		1.33									.34		T.			.50	.62	4.32
Marquette	Platte				.72	2.28	.07			.11	.05	.51	.11				T.					.01				1.10		T.			.02	.15	5.13
Mason City	Loup				1.73					.32	.70																		.37	.49	1.05		4.66
Minden	Blue			1.37	.39				.02	.25	.46	.65	.03				.06								.40	.32		.02		T.	T.	.03	4.00

TABLE 2.—*Daily precipitation for July, 1909. District No. 6*—Continued.

Stations.	River basins.	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	Total.
Nebraska—Cont'd.																																	
Nebraska City	Missouri				2.00	.23	T.	T.		T.		.10	.15													.48					.55	.29	4.01
Norfolk	Elkhorn				T.	.14	1.01	T.	T.	.65		1.04		.31			.23				T.				.25					.30	.78		4.71
North Loup	Loup				.50	.11	.55			.15	.50	1.75	T.				.08									1.35	T.	T.	T.		.68	.53	6.20
North Platte	Platte					.11		T.	T.	2.35	.77	.14				.28	.19					T.			.07	.01		T.		1.18	.10	.01	5.21
Oakdale	Elkhorn				T.	.41	.03		.02	.37	1.03	.01			.12		.25					T.				.11		T.		T.	1.16	.08	3.59
Omaha	Missouri				.53	1.63	.27	.01	T.	.16		.01	.02		.28			.51				T.				.76	T.	T.			.22		4.40
Ord	Loup					.10	.04			.65	.30	.80	.03				.18									.93					1.10	.84	4.97
Pawnee City	Great Nemaha			T.	T.	1.53	2.20	.30			.45	.55	.22										1.50			.45					.20	.21	7.61
Plymouth	Blue			.50	**	5.55	1.09	.07		.57		.25	.05													.35		.05			.15		8.63
Purdum	Loup			T.	1.00			T.		.04	.81	.45					.07									.05		T.			T.	.62	3.04
Ravenna	do.				.74	.01	.02	.02		.34	.37	1.06	.07												.08	1.49	T.	.02	.01		.03	1.21	5.47
Redcloud	Republican					.86	1.87	.09		.31	.17	1.31	.24									T.			.12	.30		.04			.42		5.73
St. Libory	Loup			1.74	2.80					.51	1.50	.25														1.70				.30	.36	.80	9.96
St. Paul	do.				1.79	.06				1.03	.36	1.30														1.49					.43	.30	6.76
Santee	Missouri			T.	.32	.54	.12	.03	.30		.78				.02							T.				T.					.82	T.	2.93
Sargent	Loup				T.	.25	T.	T.	T.		T.	2.90	T.				T.									.70	T.	T.			1.90		5.75
Schuyler	Platte					.50	2.75	.10			.37	.90	.05				.15									1.27	.27					.50	6.86
Scottsbluff	North Platte				T.	T.	.19	.12			.56					.39					.04				T.			.23			1.00		2.53
Seward	Blue				3.50	.45					.55														.65	.05	T.	.22			.25	.10	5.77
Sheridan	Loup				.80	1.20		.10		.10	.35	1.05					.30					T.				1.00					.40	.60	5.90
Sidney	North Platte					.03				.55		.36					.28					.09			.52			.09					1.92
Springview	Niobrara			T.	.30	.45	.03			.02	.23	.82														T.			T.		.10	.13	2.08
Stanton	Elkhorn				.05	.70	.41				.26	1.17				.22										.30		.09		.19		.90	4.29
Stratton	Republican										.05	.60			.05											.12					.12		0.94
Superior	do.																																
Tecumseh	Great Nemaha				6.00	.82					.23	.17	.03										10				.53		.05		.09		8.02
Tekamah	Missouri					.50	2.17	.03	.03		.31	.77	.11		T.		T.									1.35	.05					1.10	6.42
Turlington	Little Nemaha				2.75	.19	.02	.01	.04		.05	.13														.56	.03	T.		.57	.33		5.68
Valentine	Niobrara				.22						.59			.01	T.							T.						.80				T.	1.62
Wahoo	Platte				1.54	.23					.35	.28			2.32											1.07		.10			.70		6.67
Wakefield	Elkhorn				.41	.25	.39	T.		.21	.18	.60			.43							.18				.40		.06			.88		3.99
Walthill	Missouri														10							.07			.70					.10	.30		1.27
Watertown	Platte						.15		.02	.48	.82	.83	.05				.17									.98							3.50
Wauneta	Republican									.08	.60					.10					.10									15.			1.03
Weepingwater	Missouri					1.05	.24	.01	T.	T.	.05	T.	.23		T.	.16										.70	.02	T.		.02		.48	2.96
Westpoint	Elkhorn				.15	.53	.87	.20	T.		.27	.84			.15											1.31		T.	T.			.44	4.76
Wisner	Elkhorn																																
York	Blue				5.24	1.66	.09	T.		.11	T.	.58	T.		.42							T.				.67	T.	.08			T.	.27	9.12
Iowa.																																	
Afton	Missouri					1.85	1.25	.87	.05				.12		.04	.02			T.				.12			.35	.09	.45				T.	5.21
Allerton	Chariton				1.63	1.90	6.50	.46	T.		T.	T.	.15		T.								.09			.40	.40		.32		.01		11.86
Alta	Little Sioux			.40	.26	1.24	.25	.15	.02		1.68	.10	.30		.14	.13			.05				.10				.09				.35	.60	5.86
Alta (near)	do.			.83	1.25	.40	.30	.06	.03	.27	1.54	1.32			.25							.03				.09	.03				1.90	.07	8.37
Alton	Floyd			.39	1.31	.13	.06	T.	T.	.30	2.70	.77			.53							T.				.02	T.				.26	.14	6.61
Atlantic	Nishnabotna				.05	.15	1.93		.05		T.	.01	.03		T.	.17			T.							.36	.05	.11			2.40	.69	6.00
Audubon	do.				.54	.33	2.65	.02	.04				.14		.69				.73			T.				.53	.05		.05			1.56	7.33
Bedford	Missouri					2.90	1.95	.22	.09		.11	.13	.08										.73			.63	.18	.03		.13		.11	7.29
Chariton	Chariton				.12	2.70	.93	.98	T.	T.			T.		T.								.70			T.	.36		.32		T.		6.11
Clarinda	Nodaway					1.48	2.65	.45	.03			.12	.04													T.	.58		.45		.75	1.00	7.55
Corning	do.				T.	2.11	2.83	.21	.07		T.	T.	.15			.05			.26			T.				.56	.06	T.		.40		.17	6.87
Corydon	Chariton				.33	2.82	2.28	.75					.15		.10	.01							.04			.29	.36	.15	.06		T.		7.34
Creston	Missouri	.55				1.08	2.18	.40	T.		.06			.20		.05							.04				.51	.02	T.			.07	5.16
Cumberland	Nodaway				.41	1.16	.62	.01					.06		T.				.91							.71	.33				.52		4.73
Denison	Missouri				1.07	.49	1.84		.02		.07	.36	.12		.70							T.				.28	.03		T.		T.	1.10	6.08
Elliott	Nishnabotna					1.27	5.00	.04		T.	T.	T.	.15		T.				1.44							.32	.03					.19	8.44
Greenfield	Nodaway																																
Hancock	Nishnabotna			T.	T.	.30	2.00			T.					T.	.45										.10		T.					2.85
Harlan	do.				.47	.17	2.60		.02	.01	T.	T.	.06		.34				T.							.49	.05	T.			T.	.82	5.03
Hopeville	Missouri	.02			.04	2.49	2.48	.21					.09		.02	.02							.47			.49	.13	.37	.03		.50		7.36
Inwood	Big Sioux		.07	.04	.96	.03	.02	.02	.01	.62	.75	.71			.40							.07				.08	.01				.58		4.37
Lamoni	Missouri	.04			1.80	3.50	4.05	.78	.03		.05	.01	.15		.01	.03							.14			.45	.18	.53	.02		.01		11.78
Larrabee	Little Sioux		.10		1.35		.20			1.93		.50			.34				T.			T.				.04					1.33		5.79
Le Mars	Floyd				1.06		.10	.08		1.08	1.92	1.10			.88							.13				.08					.29	.10	6.82
Lenox	Missouri					2.15	3.90	.15	.10		.20	.05	.02		T.				2.00				.40			.41	.08			.30		.10	9.86
Leon	do.	.10		T.	.56	2.30	4.15	1.10	.10		.50		.40		.10								.25			.32	.25	.05	.10		.62		10.90
Little Sioux	Little Sioux					.63	1.35	.04				.48	.05		.05											.95						.58	4.13
Logan	Missouri				.30	.24	4.42					.39	.12		.11											.87						.38	6.83
Mt. Ayr	do.				.73	3.90	3.70	.60	.05		.25	.04	.10		.06				T.				1.12			.63	.25	.55	.05		.12	.05	12.20
Odebolt	do.			.30	.45	.25	.86	.10		.15	.18	.48	.12		.12				.08							.16					1.05	1.55	5.85
Onawa	do.				.10	.50	1.68	.05	.02		.15	.30	.40		.20							.02				.65	.06				T.	.25	4.38
Pacific Junction	do.					.92	.72	T.	.03			T.	.10		T.	.45										.65	.02				T.	.24	3.13
Rock Rapids	Big Sioux			.08	.37	.24	T.	.27	T.	1.21	.32	.74			.20	.35		T.														.85	4.63
Sheldon	Floyd		.20		2.25			.05		.25	2.30	.20	**	**	**	.35						T.				T.		.10				.15	5.85
Sibley	Big Sioux				.04	.75	.05	.04	.01		1.10	.41	.26		.15	.12						.10	.01				.01		.01		T.	.15	3.21
Sioux Center	Floyd			.08	.95	.17	.05			.50	3.45	1.23			.51							.08				.03					.69		7.74
Sioux City	Missouri			T.	1.13	.04	.10	.03	T.	.89		.86			.24							.10				.42		T.			.28		4.09
Thurman	do.				T.	1.32	.41	T.	T.		.10	.05	.15		T.	.05	T.										.59	.10		.12		.56	3.45
Washta	Little Sioux			T.	2.75	.07	.23			.93	1.20	.75		T.	.16							.08				.05					.67		6.89
Woodburn	Chariton				.17	2.60	.73	.58	.02				.05		T.	T.			T.				1.05			.28	.07	T.	.48		.48		6.51
Kansas.																																	
Abilene	Smoky Hill	T.			.16		1.80			2.94	.70			.16	.94							.44				.56	.16	.10	.06		.10	.10	8.22
Agricultural College	Kansas	.74				T.	.15	1.72	.10	T.	1.35	2.02	.42		.02	.12										1.04					.21	1.68	9.57
Alton	Solomon					T.	1.31		T.			.82	.05		T.								24		.27			T.		T.			2.69
Atchison	Missouri				T.	.75	.80	4.50			.40	.75	.70										15			.27		.02			.30		8.64
Baker	do.					.55		4.55	T.		.10	.58	.42										.53			T.	.57				1.17	.12	8.59
Beloit	Solomon	.03				.04	.41	.17			.60	2.00	.29				.04						1.89			.20			.11		.52		6.30
Blakeman	Republican									.14	.01	1.75					.02								.17					.06	.24		2.39
Blue Rapids	Blue	.34	.16			.92	.18	.65			.55	.49	.70										.11			.29	.22		T.		1.19	T.	5.80
Centralia	do.			1.45	1.58	.64	.64	.69		.29		.61	.80		.03							.07	.02			1.00		T.			1.93		9.75
Chapman	Smoky Hill					T.	**	1.50		.45	1.43	.98		.10	T.	T.						**	.35		T.	.80	T.				.30	.07	5.98
Clay Center	Republican							1.03		1.20		1.30	.50													.80		.18		.20	1.01	1.45	6.76
Colby	do.					.10					1.52					.16						T.			.41	.16	.25	T.	T.	.38			2.98
Concordia	do.				.03	.49	.70	.24		.67		.65	.65									.49			.26	.11		.08		1.94	.31	1.24	7.86
Densmore	Solomon					.20						.62	.50												.23	.26				.52	.17		2.50
Dresden	Republican						.01				1.34	.14										T.				.50		.02			1.43		3.44
Ellsworth	Smoky Hill					T.	2.30	.32				.48			.26		.60						1.35		T.	.32		.15			.27		6.05
Enterprise	do.	.51				.05		1.86		1.67	1.28	.70			12	.30							.40			.87		.70			.30		8.86
Eskridge	Kansas						2.20	3.02	.16	.20	2.36	1.14	.04		.52								T.			.60		.11		.05	.06	1.73	12.19
Farnsworth	Smoky Hill					.40	1.24	.52		.02				.61		.22									.32	.73	.47	.02			.27		4.82
Ft. Scott	Marmaton	.47				1.30		.82	.20		2.85	.21		T.	.11	.11											.95	.08	.08			.65	7.83
Frankfort	Blue				.65	.55	.20	.42		1.42	.13	.63	1.00		T.								42			.85			.10		1.20		7.57
Garnett	Marais des Cygnes	.36		.07	.42		5.49	.07		3.98		.20		.36	.14											1.53	.11	.04		1.29			14.06
Gove	Smoky Hill					**	1.07										.07							.07		.89	.18				.09		2.37
Hanover	Blue	T.			.66	2.00	1.08	.04		.42		.32	.46					.17				.63				.35		.08			.48	.60	7.26
Harrison	Republican	T.	T.	T.	T.	T.	2.78	T.		T.	.01	.88	.28	T.		T.						.02			T.	.40	.02	.10			1.56		6.05

TABLE 2.—*Daily precipitation for July, 1909. District No. 6*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Kansas—Cont'd.																																	
Hays	Smoky Hill					.25	.55	.45				1.04		.34											T.	.27		.02		.79			3.71
Hill City	Solomon					2.29					.78	.08																					
Horton	Kansas	T.				.94	.98	2.60		T.	.17	.50	.93										.21			.55		.08			1.10	.90	8.96
Hoxie	Solomon						.33				T.	1.65	.21												12						.90		3.21
Jewell	Republican						1.15	.09	.86			2.50	.64									1.70		.16							1.11	.11	8.32
Lawrence	Kansas				.18		1.10	1.67	.04	1.01		.71	.11		.09											.75	.04			.30	.21	.26	6.47
Lebanon	Solomon			.22		1.85		.05	T.	1.22		1.07	.40									T.			.11			.40			.89	T.	6.21
Lindsborg	Smoky Hill							1.41				.29						.31				1.10			.71		.32						4.14
Manhattan	Kansas	.67	.39			.04		1.85	.09		1.27	2.15	.43		T.	.17							.08			.35	.68		T.		.11	1.53	9.81
Mankato	Republican			.30			1.30	.10				.28	.50			.01							.22		.03	.38		.12			2.00	1.09	6.33
Minneapolis	Solomon			T.	.19	.82	.33	.43		.33	.65	1.19			.02	T.	.02					.18	.59		T.	.27		.11			.40	.09	5.62
Moran	Marmaton	.14			.45			.72	.09		2.29		T.		.30								T.			.94	.19	.77	.03		T.	.85	6.77
Norton	Republican					T.	.24	T.			T.	.66	.24												.46	.26				.47	.26		2.59
Oberlin	...do				.17			T.		T.	1.04	.02					T.								.20	.24			T.	.17	.38		2.22
Oketo	Blue	.12			.32	1.21	2.20	.09		.50		.40	.38									.16				.58		.01			.35	.13	6.45
Olathe	Kansas	.12		.45		.02		1.88	.01		.88	.39		.02												.93	.09	.05	.01	.50	.09		5.44
Osage City	Marais des Cygnes		T.					9.65	.38		2.88	.32			.61	.01	T.						T.			T.	1.72	.88			T.	2.22	18.67
Ottawa	...do	.24						5.77	.63		1.07	.15	T.		.40											1.34	.05	.26			T.	1.85	11.76
Paola	...do																																
Phillipsburg	Solomon					.09	.98	.75	.02		.06	.70	.19												.23	.21	T.	.02	T.		.19		3.44
Pleasanton	Marais des Cygnes	.05			.26			4.20	T.		2.69	T.	.09		.25	.40										1.42	.14	.78	T.			.55	10.83
Republic	Republican				1.10		2.42	.18	.10		.28	.80	.37													.48		.15		.62	.70		7.20
Russell	Smoky Hill																																
St. Francis	Republican					.10	T.			.30	.07	.24					.14							T.	1.00				.05		.52		2.42
Salina	Smoky Hill	T.			T.		.11	1.09		.14	.05	.62			.21	1.73		T.					.59			.57	T.	.16			.34	.05	5.66
Scott	...do					.09	1.30								.50		.87								.24	.86	.22				.61		4.69
Topeka	Kansas			T.	T.		3.78	1.33	.03	.66	.82	1.16	.40		.12							T.	T.			.71	T.	.01	.04		1.04	1.50	11.60
Valley Falls	...do			T.	T.	.06	1.31	2.69			.55	1.15	.50										T.			.62	1.00	.30	.06		2.60	.02	11.16
Vinland	...do							4.28			.90	.26	.02		.05											1.06	.32			.71	.33		7.93
Wakeeney	Smoky Hill						1.34	.56			.01	.84	.01		.06											.30					.31		3.43
Wallace	...do					.37	T.	.06			.27				.48		.53								.48	.12			T.		.30		2.61
Wamego	Kansas				T.		T.	2.90		.20	.50	2.25	.50		T.								T.			.85		.05			.20	2.50	9.95
Missouri.																																	
Albany‖	Grand	1.84			**	1.67	3.86	1.56	.14	**	.20	.16										**	.40			**	.80			.10	**	.20	10.93
Amoret	Osage				.15			6.45	1.79		2.63	3.90	.40		.28											1.50	.20					.95	15.25
Appleton City	...do				.10		.20	3.12	1.90		3.40				.22										.73	.27	.20					.40	10.54
Arlington‖	Gasconade							T.	1.60	.30	**	.40	**	.70	**	.34										**	.22	.12	.58	.40	.14		4.80
Arthur	Osage				.20	.28	.14	1.23	.38		2.31		.11		.20	.04										1.15	.04					.25	6.33
Avalon	Grand					1.25	1.85	1.35				.23	.38						.10							.39	.44		.18	.10	.03		6.30
Bagnell‖	Osage						**	.72	1.70		**	1.60														**	1.20	.72	.62		.90		7.46
Bethany	Grand					2.80	7.91	.52	T.			.24	.35						.42							.65	.69	.27	.16				14.01
Bolivar	Osage	.02						.26	4.87		1.61		.03	.27	.13											.38	.37	.23		.60	.14	.46	9.37
Boonville‖	Missouri						**	.98	.46		**	.52	.04	.14									**	.14			1.20		.10	.40	2.20		6.18
Brunswick	Grand							1.52	.58			2.17	T.	.87		.05											1.44		.40	T.	.25		7.28
Clinton	Osage					.11		1.98	.41		2.58		.07		.12											.40	.75	.19			.08	.12	6.81
Columbia	Missouri					.49	.59	.68			.99	.06	.25		.02	T.			.02				T.			.64	.64	.01	.01	.26	.12		4.78
Conception	...do					1.28	2.30	T.				.70	.29				T.						.06			.66	.17	T.	T.		T.	.70	6.16
Darksville	Chariton					.65		2.25				.35	.70													.35	.65				.10		5.25
El Dorado Springs	Osage	.05			T.			.31	1.96			.66	.03		.23	.27										.47	.36	T.			T.	.13	4.47
Fairport	Grand					1.80	.12	3.85	.25			.37	.27										.12			.37	.05	.07	T.	T.			7.27
Fayette	Missouri					T.	.46	.50			.18	.27	.14		T.											.42	1.09	.05	.26	T.	.60		3.97
Fulton	...do							1.15	.04		.97	.04	.02		.13				.19							.14	1.03	.03	.07		.03		3.84
Gallatin	Grand					1.03	2.50	.30	.04			.33	.33									T.				1.00		T.	.15		.05		5.73
Glasgow‖	Missouri						**	.64	.46		**	.24	.44	.38												**	.78	.34		**	.68		3.96
Grant City	...do				.14	2.16	4.92	.90	.03		.04	.07	.25										.17			.55	.27	.68	.01			.14	10.33
Harrisonville	Osage					T.		1.80	.49		.35	.43	.02	.17	.02	.10							T.			T.	1.68	.15	1.55		.12	.13	7.01
Haselhurst	Grand						2.45	2.90	.50																	.52	T.	.18	.02	T.	T.		6.57
Hermann‖	Missouri					**	.08	.70	.60		**	1.06	.02	.02	**	.10			**	.04			**	T.		**	1.04	.18	.06	T.			3.90
Houston	Gasconade			1.20	.22			.26	2.32		.43	T.	2.55	.97	.15												.11	T.					8.21
Huntsville	Charitan							2.25				1.75		1.25													.30	.25					5.80
Jefferson City‖	Missouri							.02	.30			1.07	.02			.10											.88	.15	.05		.16		2.75
Kansas City	...do			.10		.22	.26	1.51	T.	T.	.50	.33	.41		T.								T.			.82	T.	T.	.31	.32	1.47	.69	6.34
Kiddder	Grand	.50				1.00	.22	2.62	.13	.03	.01	.44		.90									.02			.75			.55	.61	.06		7.84
Lamonte	Missouri	T.						1.85	.04		.71	.08	.07	.01	.04								.05			.28	1.44	.29	.08	.11	.27	.03	5.35
Lebanon	Osage								3.53		1.18			.56	.08	.05										.33	.05	.05		.34		.10	6.27
Lexington	Missouri	.12					.02	.67	.57		.20	.05	.18	.32									T.				.82		.17	.18	2.80		6.10
Liberty	...do					.37	T.	1.66			.50	.35	1.11													.51	.23		.79	T.	.38	.06	5.96
Lockwood	Osage				.64			.03	.13		2.51	T.		.36	.31	.06										T.	.20	T.		.36		.51	5.11
Marshall	Missouri				.02			.91	.02		.13	.16	.26													.30	.85	.05	.22	.28	2.00		5.20
Marshfield	Osage	1.30						1.00	2.50		1.12	.10						.20									.35				.50	.31	7.38
Maryville	Missouri					.95	6.00	.26	.06		.15	.27	.28	.08									.74			.07	.80	.02	T.		.07	.51	10.70
Mt. Vernon	Osage					1.75				.35		2.00			.25	.25	.10									.50	.25	.25		.50		.50	6.70
Nevada	...do	.02			.24			.34	.19		1.66				.34											.85	.12	.04			T.	1.81	5.61
New Palestine	Missouri							1.00			1.15		T.		T.												1.08		.20		2.11		5.54
Oregon	...do				T.	.47		3.54	.04			.55	.31										.24			.61		.17			.24	.06	6.23
Osceola‖	Osage	1.30					**	.40	3.10	.05	.80	.53			**	.20										**	1.25				**	.35	7.98
Parkville	Missouri			.33		.10	T.	1.75				.45	.47	1.35									T.			.42	.21	.43	1.50	.15	.50	.10	7.76
Rolla	Gasconade							.06	1.30		.35	.01	T.	1.85	.19												.67	.05		.17			4.65
St. Charles	Missouri					.29	.24	2.31			T.	.77	T.						.14								1.69		.20			1.22	6.86
St. Joseph	...do					.66	.02	2.90	.10		.08	.08	.24	.66									.22			.04	.46		.04			.30	5.80
St. Louis	Mississippi					.05	.05	1.69			2.19	.08	.24	.02	.02	T.			.02				.03			T.	2.24	T.		T.	.08	.63	7.34
Sublett	Charitan					3.50	3.00	2.50				1.25	1.35													.40	.35	.25					12.60
Trenton	Grand					1.92	2.65	2.52				.18	.40													.30	.20	T.	.12		.10		8.39
Unionville‖	Charitan	.10				2.66	2.55	2.25	.64			.45	T.	.24		.02							T.				.55	.06	.40		T.		9.92
Versailles	Osage																																
Warrensburg	Missouri							1.47	.20		.20	.10	.15	.10	T.											1.40	.03	.03	1.45		1.35	.01	6.49
Warrenton‖	...do						.08	1.13	1.27			.71	.01	.04		.06											1.26	.04	.03				4.63
Warsaw	Osage	.02				.06		3.70	.61		2.50	.09	.06		.18	.02										.50	.15	.03				.08	8.00
Wheatland	...do							.23	4.05		.72			.05	.12	.30										.30	.40	.16		.05	.15	.23	6.76

TABLE 3.—*Maximum and minimum temperatures at selected stations, July, 1909. District No. 6, Missouri Valley.*

Date.	Wyoming.																Montana.											
	Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewiston.		Malta.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min
1...	98	63	82	54	91	58	92	52	85	62	93	56	95	50	88	54	105	52	90	70	91	65	92	56	84	68	92	65
2...	103	63	89	54	99	60	96	53	84	60	95	52	87	52	88	57	90	62	89	71	84	67	90	62	82	59	90	66
3...	98	68	85	54	91	61	89	61	89	63	94	55	87	65	73	54	93	64	84	65	73	62	79	61	80	56	73	57
4...	96	60	76	59	85	64	74	60	80	58	80	57	79	60	80	52	82	56	83	68	84	56	82	55	86	60	82	61
5...	91	62	80	59	83	63	85	56	81	58	88	58	81	63	80	48	84	62	82	61	74	60	80	54	80	56	81	65
6...	97	64	82	55	92	62	84	56	86	63	91	62	92	57	68	48	82	62	74	50	78	61	71	54	82	52	71	58
7...	98	63	87	57	94	56	81	48	89	63	88	53	86	60	63	41	79	56	80	47	67	53	59	48	68	42	73	57
8...	90	55	84	52	91	51	87	41	88	52	90	50	78	48	74	40	81	42	78	52	76	52	74	48	70	42	76	49
9...	89	55	78	58	81	64	84	52	81	58	86	56	76	55	69	43	82	51	76	52	77	52	77	54	78	61	77	52
10...	86	54	78	53	82	61	84	48	78	56	86	53	81	52	69	42	86	47	81	50	78	55	69	51	76	47	86	55
11...	85	55	83	50	90	48	76	53	79	53	80	52	71	48	63	47	76	53	75	46	70	56	65	52	68	45	75	53
12...	86	48	81	47	87	45	81	43	76	48	81	47	73	42	68	36	80	49	78	48	74	56	74	49	79	45	72	55
13...	82	48	81	44	86	43	85	42	86	48	82	45	76	43	73	40	80	44	81	49	69	52	73	49	68	37	71	50
14...	84	52	70	51	82	50	83	44	87	50	92	47	75	43	76	39	79	39	80	47	74	47	77	46	74	42	75	45
15...	85	55	81	52	89	53	89	50	87	56	91	46	83	46	80	42	90	45	82	52	82	49	81	50	87	49	80	43
16...	98	56	84	55	90	55	95	47	91	62	93	53	93	50	85	48	102	50	86	50	94	56	95	54	94	47	95	54
17...	110	60	93	58	100	63	95	51	101	68	98	60	97	54	85	56	100	55	87	52	88	58	84	58	87	47	94	67
18...	101	60	90	55	98	59	92	68	101	78	94	59	90	60	79	55	104	54	86	55	80	61	80	56	85	43	83	66
19...	94	.....	86	55	94	61	88	65	95	64	90	62	84	65	82	47	91	58	84	50	85	48	84	51	88	49	85	55
20...	95	.....	84	59	93	61	88	57	92	65	89	63	83	55	76	46	91	59	64	44	82	59	69	50	77	41	86	59
21...	96	.....	76	54	84	59	78	47	76	55	81	49	72	48	73	42	76	49	79	48	80	57	75	46	78	47	78	56
22...	86	.....	74	45	82	44	86	46	81	44	85	53	84	45	83	43	89	48	80	51	82	53	86	50	81	44	82	51
23...	98	.....	79	57	90	53	86	57	86	59	87	61	90	54	83	51	96	51	85	50	89	54	90	61	86	51	91	57
24...	98	.....	76	57	92	62	88	59	84	55	82	62	84	58	74	49	94	56	87	53	92	58	86	55	89	53	95	62
25...	98	60	83	55	97	52	90	47	96	60	94	50	93	50	82	47	99	56	81	54	83	57	83	55	83	50	78	63
26...	96	63	81	55	74	65	80	55	86	55	72	52	73	57	63	51	72	57	82	50	66	60	72	56	63	41	78	59
27...	86	60	83	53	91	61	77	49	88	54	82	52	80	57	58	45	80	57	70	44	60	56	72	49	65	50	71	59
28...	84	48	84	53	89	48	78	42	90	56	77	53	76	46	62	43	75	46	74	41	70	54	69	49	61	42	68	52
29...	88	48	78	52	83	47	86	43	91	59	88	47	91	43	76	43	89	46	76	47	78	50	79	46	76	45	84	50
30...	95	60	86	55	94	43	89	46	94	55	89	52	87	49	79	43	91	50	81	53	82	54	84	50	85	49	85	54
31...	80	60	87	55	95	51	91	52	95	65	91	54	90	53	81	45	94	51	85	50	85	56	85	55	83	47	88	55
Mns	92.9	57.6[1]	82.0	53.9	89.3	55.6	85.7	51.3	87.2	58.1	87.4	53.9	83.5	52.5	75.3	46.4	87.5	52.5	80.6	52.3	78.9	55.9	78.6	52.6	78.8	48.6	81.1	56.5

Date.	Montana.				North Dakota.										South Dakota.													
	Miles City.		Poplar.		Berthold Agency.		Bismarck.		Dickinson.		Jamestown.		Williston.		Aberdeen.§§		Chamberlain.		Huron.		Kadoka.		Lemmon.		Pierre.		Rapid City.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	105	68	97	66	89	55	88	56	87	61	86	54	92	60	90	63	99	69	91	69	95	65	87	64	97	68	90	64
2...	89	70	84	70	84	62	74	61	84	65	81	50	75	58	86	68	104	68	93	64	97	.....	79	62	97	66	92	68
3...	86	65	79	62	73	54	76	53	72	53	76	54	77	55	75	57	90	64	76	59	80	59	67	55	78	62	77	59
4...	81	64	81	64	72	60	64	57	67	58	68	50	73	63	61	55	72	49	62	53	81	64	62	57	70	56	76	59
5...	75	62	69	58	64	57	61	55	60	56	64	53	65	59	62	55	66	55	62	53	70	55[a]	59	53	64	55	66	58
6...	88	62	75	58	69	57	69	57	65	55	73	57	70	58	71	55	74	60	70	58	83	58	66	54	76	60	82	60
7...	86	66	81	59	68	61	69	61	69	65	71	43	69	60	70	59	74	61	70	59	91	64	70	60	79	64	92	63
8...	78	56	76	56	75	52	79	59	74	51	84	62	74	56	80	60	86	60	81	61	84	62	75	53	84	63	78	59
9...	80	59	78	62	76	51	78	57	75	51	80	42	74	52	80	58	87	65	80	62	89	56	77	56	80	61	76	55
10...	89	58	85	65	82	47	83	51	79	48	84	48	81	48	81	56	86	68	84	57	84	61	80	54	85	61	77	58
11...	76	59	74	55	77	61	77	59	74	59	74	44	75	54	77	60	84	65	79	60	77	55	72	59	78	61	74	56
12...	75	58	65	53	77	55	75	56	68	53	73	47	71	54	75	54	80	60	73	56	76	56	68	51	75	59	74	50
13...	78	52	72	47	79	57	81	59	75	46	79	53	74	51	73	54	84	70	82	58	82	53	78	50	86	59	81	53
14...	78	52	74	47	72	49	72	52	70	46	74	50	71	52	76	54	83	69	77	60	78	52	71	47	79	58	76	53
15...	84	49	80	41	78	50	78	51	76	47	75	57	75	51	79	52	87	52	79	53	83	53	75	47	83	55	82	51
16...	98	61	88	53	83	47	83	48	79	51	82	48	83	48	81	49	90	60	81	53	87	57	80	53	87	62	87	52
17...	104	68	92	69	90	60	94	63	88	60	89	73	88	65	90	53	99	64	92	62	98	66	93	53	100	68	95	63
18...	104	73	95	70	95	66	94	67	93	65	85	61	93	67	90	57	98	88	92	69	101	72	96	63	100	80	96	66
19...	88	67	89	60	86	69	90	71	84	66	96	60	85	68	98	72	101	75	94	70	99	75	86	70	102	78	86	63
20...	88	68	90	65	92	65	92	67	88	66	85	63	89	64	93	70	101	75	95	73	98	65	87	68	101	73	88	65
21...	76	56	75	53	78	59	70	58	76	53	77	55	68	55	80	67	92	70	83	66	86	58	73	58	82	65	70	55
22...	84	56	82	55	81	48	79	54	77	49	75	43	79	49	77	55	83	56	78	56	80	50	76	50	82	59	77	51
23...	97	64	92	57	85	46	84	52	82	51	80	47	84	51	80	50	84	55	82	50	88	54	83	49	88	55	86	52
24...	92	68	93	60	79	56	90	59	79	58	84	50	81	58	86	53	90	61	85	51	92	64	88	57	90	63	85	60
25...	100	64	97	58	94	52	94	61	92	53	86	67	93	57	80	62	91	54	74	61	92	59	90	57	94	68	90	63
26...	94	72	82	64	87	60	90	62	89	58	90	57	82	64	83	60	90	51	80	61	96	64	82	60	92	61	90	59
27...	88	63	80	60	85	66	86	61	83	63	81	61	76	60	80	60	86	52	78	59	90	61	87	65	93	65	92	67
28...	77	56	85	54	80	58	81	58	79	54	81	57	75	55	88	61	97	65	91	69	94	59	80	54	95	67	87	56
29...	92	52	83	45	81	49	80	56	77	50	71	57	79	49	80	55	93	60	82	58	84	52	.....	.....	86	62	82	52
30...	91	58	87	51	88	57	89	60	86	59	87	50	86	57	80	55	93	62	86	55	94	61	.....	.....	90	64	89	60
31...	97	58	90	52	89	48	91	58	87	50	89	52	87	56	91	55	99	65	90	54	97	60	.....	.....	96	63	89	64
Mns	87.7	61.4	82.9	57.7	80.9	55.9	81.0	58.0	78.5	55.5	80.0	53.7	78.8	56.6	80.4	57.9	88.5	62.8	81.3	59.6	87.9	59.7[a]	78.1[c]	56.4[c]	86.7	63.2	83.3	58.5

TABLE 3.—*Maximum and minimum temperatures at selected stations. District No. 6*—Continued.

Date.	South Dakota.						Colorado.				Nebraska.																	
	Sioux Falls.		Watertown.		Yankton.		Denver.		Wray.		Alma.		Bridgeport.		Grand Island.		Hay Springs.		Hebron.		Lincoln.		North Platte.		Oakdale.		Omaha.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	94	69	89	66	89	67	86	61	88	60	90	65	87	59	92	63	91	58	89	66	93	68	88	64	90	64	88	72
2...	97	70	89	69	97	73	90	62	92	65	91	64	92	63	98	68	95	56	92	68	96	71	96	66	97	69	94	74
3...	80	55	71	57	77	67	90	60	90	62	96	66	90	61	90	66	86	60	97	68	86	72	92	66	81	70	83	67
4...	70	52	64	54	67	56	85	60	95	65	95	70	83	66	94	68	85	61	92	69	89	68	95	69	81	61	80	64
5...	65	50	63	52	62	56	78	60	86	63	84	64	76	65	75	66	80	60	91	66	83	67	73	65	66	58	77	62
6...	70	55	66	57	68	59	86	62	84	66	86	66	80	64	78	61	86	64	80	70	81	66	82	63	73	59	77	62
7...	72	62	71	58	70	61	88	60	89	65	76	64	88	59	73	64	92	60	73	69	73	66	80	66	73	62	71	63
8...	78	63	75	61	80	66	86	56	92	66	87	69	88	58	82	67	84	57	80	69	80	67	92	69	83	65	78	67
9...	84	61	80	62	82	62	89	63	91	62	90	75	90	60	86	70	80	59	89	70	87	68	88	63	82	64	86	71
10...	90	69	84	55	82	60	84	62	83	61	87	67	80	51	83	66	83	55	83	66	86	67	83	60	86	60	87	70
11...	80	60	82	63	87	60	92	60	91	59	87	68	85	52	90	65	70	49	85	66	90	64	90	62	89	60	89	65
12...	79	65	73	53	79	63	85	60	85	57	85	64	80	56	83	64	74	50	84	62	85	66	82	60	82	61	84	66
13...	70	59	81	55	81	60	84	59	90	50	86	54	87	48	86	55	87	41	82	57	84	61	84	52	85	56	83	64
14...	70	55	76	59	78	61	73	59	81	58	89	62	76	58	86	66	77	52	84	67	88	67	80	59	79	60	85	68
15...	70	58	78	54	80	58	85	58	85	53	88	63	80	55	74	66	85	45	88	68	85	64	83	52	85	51	83	67
16...	74	57	82	48	81	62	88	62	87	59	91	63	85	51	88	67	87	52	87	64	87	65	85	58	88	61	86	67
17...	80	67	92	56	91	67	94	62	92	62	93	63	91	65	90	62	92	62	91	64	91	68	89	66	92	62	90	70
18...	82	63	85	63	93	71	95	64	93	64	94	70	90	65	91	70	94	63	93	68	92	72	91	68	92	69	91	74
19...	90	70	90	69	90	71	90	62	94	67	93	66	92	64	90	69	92	63	91	67	92	70	91	68	92	68	90	73
20...	94	68	92	73	93	75	89	61	97	65	95	71	93	51	94	70	94	56	93	71	93	73	94	71	95	71	91	74
21...	85	60	86	66	85	65	80	57	88	66	90	68	80	50	86	74	85	56	91	72	95	73	86	61	87	63	92	72
22...	80	56	76	57	77	56	77	59	82	50	85	53	80	46	80	54	80	42	79	59	81	59	81	54	80	53	77	62
23...	83	53	83	50	79	55	78	61	81	60	87	49	81	53	84	56	85	43	82	53	81	55	82	50	82	49	77	58
24...	85	58	84	50	84	54	85	59	89	62	75	63	83	60	78	54	83	57	84	59	85	55	77	60	87	50	82	62
25...	79	53	75	63	70	62	87	56	90	62	80	59	92	57	73	58	88	58	74	59	70	61	82	60	66	61	71	62
26...	80	59	81	61	76	63	86	59	87	61	82	61	86	53	76	61	90	50	79	65	77	64	82	60	82	64	74	62
27...	82	70	82	56	75	62	86	57	84	67	87	68	90	52	79	66	92	65	79	67	81	65	83	66	77	64	82	66
28...	93	74	90	69	95	70	88	56	97	64	93	72	90	59	90	69	91	56	88	71	91	70	96	64	96	70	89	72
29...	87	60	87	59	85	67	82	61	90	63	92	64	83	52	85	68	84	48	92	69	92	71	86	64	87	66	91	76
30...	89	56	85	53	88	62	88	58	92	57	91	66	91	59	90	67	92	56	88	67	89	67	90	64	89	61	87	67
31...	90	68	92	52	88	59	91	62	94	62	95	66	92	52	88	56	93	51	91	62	90	64	92	61	88	57	89	66
Mns.	81.4	61.0	80.8	58.7	81.6	62.9	86.0	59.9	89.0	61.4	88.4	64.6	85.8	56.9	84.9	64.4	86.4	55.0	86.2	65.5	86.2	66.3	86.2	62.3	84.3	61.6	84.0	67.3

Date.	Valentine, Nebr.		Iowa.						Kansas.										Missouri.							
			Clarinda.		Sibley.§§		Sioux City.		Colby.		Concordia.		Salina.		Topeka.		Wakeeney.		Columbia.		Kansas City.		St. Louis.		Unionville.§§	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	96	66	90	67	88	64	90	65	92	61	91	68	92	66	91	70	88	66	89	66	88	71	91	72	92	68
2	97	69	94	65	94	66	96	71	90	61	95	70	95	68	94	71	90	67	92	68	93	73	96	73	90	70
3	80	64	76	70	73	57	75	65	92	65	95	74	100	70	96	72	92	66	88	68	94	71	83	63	78	71
4	83	64	80	61	61	56	66	54	98	64	94	72	92	70	89	67	93	68	78	59	85	65	81	57	76	57
5	70	58	85	61	62	51	63	57	90	65	99	70	95	73	96	73	93	70	86	66	93	74	82	66	73	58
6	76	58	85	62	68	53	70	60	85	66	85	72	100	72	94	69	86	67	93	70	93	73	88	72	81	61
7	83	62	73	63	74	58	70	61	86	68	79	72	92	71	78	70	82	69	77	71	80	70	78	70	70	64
8	85	68	80	63	74	60	75	66	92	67	86	71	88	73	84	73	87	71	85	69	81	72	83	70	84	60
9	83	65	88	66	81	62	83	65	91	68	89	69	95	72	91	70	87	72	89	68	88	71	88	70	89	64
10	85	57	89	66	80	61	84	64	89	66	83	69	92	73	86	69	81	69	74	68	83	71	76	69	85	67
11	80	58	88	66	80	63	86	63	89	58	90	63	88	60	92	63	89	59	90	67	89	69	92	71	84	64
12	78	56	84	64	77	59	81	66	84	62	86	63	86	65	83	63	87	62	82	64	82	63	89	70	80	63
13	83	50	89	59	77	58	80	62	88	55	88	61	92	59	87	65	88	58	84	62	85	67	82	72	84	62
14	77	57	89	63	77	59	79	62	86	61	88	69	86	64	85	66	84	62	80	64	85	70	83	72	87	60
15	85	50	87	66	77	54	80	58	84	61	86	70	89	65	86	70	85	67	85	62	84	70	86	72	83	63
16	86	58	88	60	79	53	82	61	87	62	89	66	82	65	87	66	87	66	86	61	85	70	84	72	85	57
17	94	67	94	65	87	59	91	69	89	68	89	67	91	68	89	69	90	64	89	64	88	71	85	72	90	62
18	96	70	95	67	88	62	90	69	91	66	90	71	92	69	91	68	91	68	90	66	91	71	87	71	91	66
19	95	72	90	70	87	64	90	71	92	64	90	70	95	68	90	71	90	67	85	62	88	72	80	61	80	60
20	99	73	93	67	90	69	91	74	95	69	92	73	92	67	90	71	93	71	85	61	87	70	81	66	86	59
21	80	57	95	63	85	71	84	64	90	70	96	68	95	70	90	67	93	72	89	59	89	66	90	68	88	58
22	80	50	81	60	73	58	77	60	83	54	82	62	80	59	81	65	81	58	82	66	80	70	83	71	80	62
23	84	49	84	55	77	51	79	56	82	52	84	58	80	56	81	60	84	53	81	59	81	64	79	64	83	57
24	85	64	85	52	81	52	81	54	83	59	80	58	78	57	84	60	77	53	83	56	82	64	82	65	86	60
25	90	62	66	59	73	54	68	61	86	60	78	60	85	56	73	64	85	60	78	60	71	65	81	68	74	58
26	87	56	76	60	73	61	73	62	83	59	83	69	81	67	82	68	84	62	85	62	82	65	72	62	73	60
27	87	63	83	62	75	60	77	64	85	65	82	72	78	67	82	69	86	68	90	69	86	67	88	66	76	62
28	92	66	91	62	89	62	90	72	92	66	92	71	90	68	92	74	93	70	89	73	91	76	93	75	90	66
29	81	57	97	73	84	68	88	70	93	64	92	68	100	71	97	75	95	67	90	73	91	73	93	78	94	74
30	95	64	86	66	84	61	87	62	88	62	89	69	90	69	88	68	90	65	86	69	82	69	89	76	88	70
31	92	60	89	63	86	57	86	61	93	64	90	65	95	67	90	70	93	62	88	66	88	72	85	71	91	67
Mns.	86.0	61.0	86.1	63.4	79.2	59 4	81.0	63.5	88.6	63.0	88.1	67.7	89.9	66.6	87.7	68.3	87.9	65.1	85.4	65.1	86.0	69.5	84.8	69.2	83.6	62.9