

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CLIMATOLOGICAL SERVICE

DISTRICT No. 9, COLORADO VALLEY

FREDERICK H. BRANDENBURG
DISTRICT EDITOR

REPORT FOR JULY, 1913

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CLIMATOLOGICAL DATA FOR JULY, 1913.

DISTRICT NO. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The hot dry weather characteristic of early summer in the Colorado Basin prevailed during the first 5 or 6 days. The following week was marked by scattered thunder-showers, which caused some improvement in conditions, but high temperatures continued in the southern half of the district. Beginning on the 14th showers became general, and for 10 days they occurred over the greater part of the district. In localities in Arizona, western New Mexico, and eastern Utah the 24-hour falls exceeded an inch. While the precipitation for the entire month was about normal it exceeded the combined total for April, May, and June, which was only 1.37 inches. Sheep and range cattle industries and dry-farming interests suffered from the drought, and irrigation ditches which receive their supply from the smaller streams experienced a shortage of water. The Indian agencies in the plateau region of northeastern Arizona reported that the season thus far had been so deficient in precipitation as to endanger all crops on the reservations. More rain is needed to bring the ranges in different parts of the district into good condition.

TEMPERATURE.

The mean temperature for the stations reporting was 72.4°, or 1.6° below the normal. The mean for July, 1912, was 70.9°. The highest monthly mean was 90.6°, at Quartzite, Ariz., and the lowest 46.5°, at Corona, Colo. As a whole the first half of the month was warmer than the seasonal average, while the last half was consistently cooler than the average, with marked daily deficiencies in the southern half of the district. During this period freezing temperatures occurred at a number of high stations in the different areas. The lowest temperature, 24°, occurred at Dillon and Fraser, Colo., and Strawberry Tunnel (east), Utah, on the 12th. Temperatures of 100° or higher occurred in the different areas except western Wyoming. The highest temperature, 121°, occurred at Parker, Ariz., on the 15th.

Details of temperature are summarized in the following table:

Areas of States in District No. 9.	Temperature.					
	Mean.	Departure from nor- mal.	Highest.	Station.	Lowest.	Station.
Western Wyoming.....	60.7	+0.7	95	At 2 stations..	30	At 2 stations.
Western Colorado.....	63.9	-1.6	104	Palisades.....	24	Do.
Eastern Utah.....	70.8	-1.5	111	St. George.....	24	Strawberry Tunnel (east).
Western New Mexico.....	72.2	-1.1	108	At 3 stations..	31	Berger's ranch.
Arizona.....	78.6	-2.0	121	Parker.....	28	Alpine.
Southeastern Nevada.....	79.4	+3.6	113	Logan.....	40	Caliente.

PRECIPITATION.

The average for the 202 stations reporting was 1.68 inches, or 0.04 inch below the normal. The average for July, 1912, was 2.65 inches. The first 5 days were practically without rain. From the 6th to the 10th scattered showers occurred in the different areas, except western Wyoming. The 14th marked the beginning of fairly well-distributed showers throughout the district. The last 3 days were showery in Arizona and western New Mexico, but in the rest of the district the period from the 25th to the end of the month did not add materially to the water supply. The greatest monthly amount was 4.75 inches at Charlson's Mill and Fairbank, Ariz., and the least, a trace, at Caliente, Nev. Light snow fell at Grandlake, Colo., on the 11th, and on a number of dates at Corona, Colo. The average number of days with 0.01 inch or more precipitation was 6 in western Wyoming, 10 in western Colorado, 7 each in eastern Utah, western New Mexico, and Arizona, and 2 in southeastern Nevada. The average for the district as a whole was 7 days.

The average precipitation and departures from the normal on the different watersheds are given in the following table:

Watershed.													
Green.		Grand.		San Juan.		Little Colorado.		Gila.		Mimbres.		Colorado proper.	
Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.	Departure.
1.56	+0.20	1.80	+0.04	1.50	+0.01	1.96	-0.13	1.99	-0.24	1.91	-0.20	1.25	+0.21

MISCELLANEOUS.

The average amount of sunshine, in percentages, with departures from the normal, was as follows: Grand Junction, 77, ±0; Durango, 74, -3; Phoenix, 79, -5; and Yuma, 89, ±0.

The relative humidity reported was: Grand Junction, 44, +9; Durango, 51, -6; Phoenix, 38, +2; and Yuma, 45, +1 per cent.

RIVERS.

The volume discharged by the Colorado and tributaries was much below the normal, and the least in 3 years. The highest stages occurred at the beginning of the month after which there was a steady decline until the 17th. As a result of showers there was a moderate rise in the upper reaches until the 25th. The lowest stages occurred generally at the end of the month.

TABLE 1.—Climatological data for July, 1913. District No. 9, Colorado Valley.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Prevailing wind direction, and Observers. Rows are categorized by Wyoming, Colorado, and Utah.

TABLE 1.—Climatological data for July, 1913. District No. 9—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Sky, Prevailing wind direction, Observers. Rows are categorized by Utah, New Mexico, and Arizona.

DISTRICT No. 9. CLIMATOLOGICAL SUMMARY.

JULY, 1913

TABLE 1.—Climatological data for July, 1913. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						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 rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
Arizona—Continued.																					
Keams Canyon.....	Navajo.....	6,600	9	70.4	.....	98	5	44	28 ^a	44	0.87	.....	0.40	0	6	14	15	2	w.	Fred A. Bartram.
Kingman.....	Mohave.....	3,326	10	80.9	- 1.3	109	11	53	1	47	0.08	- 0.73	0.04	0	3	20	0	11	s.	Agent A. T. & S. F. Ry.	
Lakeside.....	Navajo.....	6,500	15	64.2	.....	92	12	37	28	49	3.44	+ 0.73	0.66	0	12	8	5	13	sw.	Prof. Joseph Peterson.
Lewis Springs.....	Cochise.....	4,029	4	.....	.....	.....	.....	.....	.....	.....	4.46	.....	1.00	0	10	6	4	21	.....	Agent E. P. & S. W. R. R.
McNeal.....	.....	4,150	3	.....	.....	.....	.....	.....	.....	.....	1.50	.....	0.46	0	8	6	20	5	w.	Gladys Taylor.
Maricopa.....	Pinal.....	1,186	37	89.3	- 4.5	116	5	62	1 ^a	49	0.37	- 0.43	0.21	0	3	15	15	1	sw.	Agent Southern Pacific Ry.	
Marinette.....	Maricopa.....	1,150	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Theo. Katzenstein.
Moccasini.....	Mohave.....	4,500	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. G. Maxwell.
Mohawk Summit.....	Yuma.....	4,538	1	.....	.....	116	10	63	27	.....	1.51	+ 1.29	0.50	0	4	16	9	6	.....	Agent Southern Pacific Ry.
Naco.....	Cochise.....	4,379	4	.....	.....	.....	.....	.....	.....	.....	3.13	.....	1.15	0	10	21	10	0	se.	Agent E. P. & S. W. R. R.
Natural Bridge.....	Gila.....	4,990	24	.....	.....	.....	.....	.....	.....	.....	2.02	- 0.53	0.50	0	7	15	13	3	sw.	D. G. Goodfellow.
Nutriso.....	Apache.....	8,000	3	.....	.....	.....	.....	.....	.....	.....	2.34	.....	0.45	0	9	8	7	16	sw.	U. S. Forest Service.
Oracle.....	Pinal.....	4,502	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Lawson.
Osborn.....	Cochise.....	4,676	4	.....	.....	.....	.....	.....	.....	.....	2.53	.....	0.95	0	7	9	20	2	w.	Agent E. P. & S. W. R. R.
Paradise.....	do.....	5,436	7	71.0	.....	99	5	43	27	47	3.76	.....	0.79	0	9	3	27	1	sw.	J. C. Hancock.
Parker.....	Yuma.....	345	17	86.4	- 5.5	121	15	62	15 ^a	59	0.58	+ 0.12	0.40	0	4	23	5	3	.....	M. A. Isreal, M. D.
Payson.....	Gila.....	5,550	5	70.6	.....	100	5	42	26	50	2.72	.....	0.71	0	9	10	0	21	.....	Mart McDonald.
Phoenix.....	Maricopa.....	1,108	19	86.3	- 4.1	110	5	65	27	37	0.94	- 0.13	0.82	0	6	15	8	8	e.	U. S. Weather Bureau.	
Phoenix (1).....	do.....	1,092	23	85.4	- 3.4	113	9	59	27	42 ^a	1.70	+ 0.44	1.45	0	4	18	11	2	w.	Geo. Acuff.	
Phoenix (2).....	do.....	1,189	5	86.0	.....	109	5 ^a	62	1 ^a	41	1.11	.....	0.25	0	7	24	0	7	sw.	Salt River Valley Nurseries.
Pinal Ranch.....	Pinal.....	4,520	19	.....	.....	.....	.....	.....	.....	.....	2.62	.....	1.05	0	7	.....	.....	.....	.....	Irion & Craig.
Pinedale.....	Navajo.....	6,500	1	.....	.....	.....	.....	.....	.....	.....	2.47	.....	1.17	0	10	4	17	10	sw.	E. Thomas, jr.
Pinto.....	Apache.....	5,660	9	.....	.....	.....	.....	.....	.....	.....	1.04	.....	0.40	0	5	17	10	4	sw.	Celia F. Henning.
Prescott.....	Yavapai.....	5,320	46	69.4	- 1.6	99	5	44	27	47	3.27	+ 0.30	1.20	0	10	16	9	6	.....	Dr. J. W. Flinn.
Prescott Dry Farm.....	do.....	5,008	1	73.3	.....	101	6 ^a	51	23 ^a	38	1.99	.....	0.83	0	7	18	10	3	s.	L. L. Bates.
Quartzsite.....	Yuma.....	1,800	6	90.6	.....	118	11	65	27	40	0.90	.....	0.31	0	5	12	14	5	sw.	W. E. Scott.
Redrock.....	Pinal.....	1,864	5	.....	.....	.....	.....	.....	.....	.....	1.48	.....	0.70	0	4	16	4	11	ne.	Agent Southern Pacific Ry.
Rice.....	do.....	2,175	9	81.2	- 4.9	109	5	52	27 ^a	38	1.32	- 0.32	0.56	0	8	23	3	5	w.	Arthur Pritchard.	
Roosevelt.....	do.....	1,280	6	87.0	.....	112	5	61	27 ^a	46	0.92	.....	0.32	0	5	.....	.....	.....	.....	U. S. Reclamation Service.
Sacaton.....	Apache.....	5,650	9	70.7 ^a	.....	105	5 ^a	38	28	51 ^a	2.10	.....	0	.....	11	18	2	.....	.....	E. W. Hudson.
St. Johns.....	do.....	6,950	26	68.5	- 0.6	96	5	40	28	50	0.95	- 1.09	0.55	0	3	16	11	4	sw.	Alexander Shreeve.	
St. Michaels.....	Cochise.....	3,609	27	82.0	- 1.9	108	10 ^a	56	21 ^a	42 ^a	0.85	- 0.12	0.35	0	3	.....	.....	.....	.....	Rev. Anselm Weber, O. F. M.
San Simon.....	Yavapai.....	5,219	8	71.6	.....	100	5 ^a	42	27	52 ^a	0.35	.....	0.35	0	1	17	0	14	sw.	Agent Southern Pacific Ry.
Sentinel.....	Maricopa.....	685	15	.....	.....	115	9	.....	.....	.....	0.02	- 0.62	0.01	0	2	19	4	8	w.	Librarian A. T. & S. F. Ry.
Silverbell.....	Pima.....	2,664	8	.....	.....	109	5	.....	.....	.....	0.36	.....	.....	.....	.....	.....	.....	.....	.....	Agent Southern Pacific Ry.
Snowflake.....	Navajo.....	5,644	6	67.6	.....	99	6 ^a	37	28	54	1.01	.....	0.66	0	4	6	0	25	sw.	Imperial Copper Co.
Springerville.....	Apache.....	6,862	3	63.3	.....	91	5 ^a	36	2	53	2.57	.....	0.42	0	9	17	8	6	sw.	William J. Flake.
Supai.....	Cocconino.....	3,200	7	83.8	.....	110	6 ^a	60	27 ^a	45	0.82	.....	0.30	0	7	14	12	5	.....	U. S. Forest Service.
Tempe.....	Maricopa.....	1,165	9	86.6	.....	112	5 ^a	60	1 ^a	48	2.23	.....	1.59	0	7	14	14	3	se.	Laura B. Symons.
Thatcher.....	Graham.....	2,800	10	83.0	+ 1.8	112	1 ^a	55	2	55	3.48	+ 0.98	1.24	0	8	8	23	0	sw.	F. H. Simmons.	
Tombstone.....	Cochise.....	4,550	18	78.4	+ 0.2	107	5	54	27	41	4.54	+ 1.24	1.56	0	13	7	22	2	sw.	J. H. Larson.	
Truxton.....	Mohave.....	3,997	3	74.4	.....	105	6	41	3	55	1.58	.....	1.10	0	7	13	9	9	s.	F. N. Wolcott.
Truxton Canyon Indian School.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Truxton Canyon Indian School.
Tuba.....	Cocconino.....	4,500	13	74.4	- 2.8	100	5 ^a	45	28	43	0.58	- 0.11	0.19	0	8	13	17	1	sw.	Ira E. Bell.	
Tucson.....	Pima.....	2,390	33	83.5	- 3.0	109	5	58	1	47	1.32	- 0.71	0.64	0	9	7	16	8	w.	University of Arizona.	
Tucson (1).....	do.....	2,380	5	82.2	.....	110	5	52	27	52	1.48	.....	0.44	0	9	14	17	0	sw.	Rev. James F. Record.
Tucson (2).....	do.....	2,526	4	83.5	.....	108	5	57	29	45	3.06	.....	1.06	0	8	11	9	11	w.	U. S. Coast & Geod. Survey.
Vail.....	do.....	3,421	14	75.0	.....	105	5 ^a	50	22 ^a	46	2.75	+ 1.46	0.70	0	6	5	6	20	.....	Agent, Southern Pacific Ry.
Walnut Grove.....	Yavapai.....	3,649	20	.....	.....	.....	.....	.....	.....	.....	2.75	+ 0.74	1.10	0	6	.....	.....	.....	.....	J. O. Carter.
Wickenburg.....	Maricopa.....	2,072	15	83.6	- 1.8	114	12	50	18	52	0.54	- 0.57	0.29	0	3	19	0	12	.....	Agent, S. F. P. & P. Ry.
Willcox.....	Cochise.....	4,164	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent, Southern Pacific Ry.
Williams.....	Cocconino.....	4,750	13	68.8	+ 1.1	98	5 ^a	37	27	50	1.80	- 1.28	0.60	0	4	14	14	3	.....	E. J. Nordyke.
Winslow.....	Navajo.....	4,855	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Winslow High School.
Yuma.....	Yuma.....	141	33	88.2	- 2.7	115	10	61	27	44	0.17	+ 0.05	0.15	0	2	27	4	0	s.	U. S. Weather Bureau.	
Yuma (1).....	do.....	150	6	82.8	.....	112	10	54	27	48	0.04	.....	0.03	0	2	24	6	1	sw.	C. J. Wood.
Nevada.																					
Caliente.....	Lincoln.....	4,407	3	68.2	.....	98	10	40	27 ^a	48	T.	.....	T.	0	0	18	13	0	ne.	Salt Lake Route.
Las Vegas.....	Clark.....	2,033	11	84.3	+ 3.6	112	10 ^a	56	26 ^a	44	0.35	+ 0.14	0.15	0	3	16	7	8	s.	C. P. Squires.	
Logan.....	do.....	1,355	6	85.6	.....	113	6 ^a	55	27	50	0.05	.....	0.03	0	2	24	4	3	s.	Orin W. Jarvis.

^a, ^b, ^c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.
 ** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
 † Also on other dates.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—Daily precipitation for July, 1913. District No. 9.—Continued.

Stations.	Watershed.	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						
<i>Arizona—Contd.</i>																																							
Mohawk Summit.	Gila.																			.45	.40	.16	.50												1.51				
Naco.	San Pedro.				.05			.14						.35	.08		.15	.38		.38	.12	.33													1.15	3.13			
Natural Bridge.	Verde.															T.	.14	.28		.31	.46	.25	.50											.08	2.02				
Nutrioso.	Little Colo.			T.	T.	T.		.12		T.	.45			.20	.40	.20	.30					.31	.20	T.	.16											2.34			
Oracle.	San Pedro.																			.13	.40	.10																	
Osborn.	do.				T.			.08								T.	.95	.13	.36	.34		.79	.10											.58	.29	2.53			
Paradise.	Desert.								T.	.67						T.	.33	.13	.36	.10	.40	.50													.08	3.76			
Parker.	Colorado.																			.71	.23	.32													.12	0.58			
Payson.	Verde.					.22											.30	.13	.19	.71	.23	.32														.03	2.72		
Phoenix.	Salt.									T.						T.	.08	.08	T.	.02	.80	.02	.01												T.	0.94			
Phoenix (1).	do.									T.						T.	.03	T.	T.	.18	.45	.04													T.	1.70			
Phoenix (2).	do.						T.								.14		.25	.18	.22	.12	.12	.08													T.	1.11			
Pinal Ranch [I].	Gila.																.25	.24	.04	.32	.55	.17													1.05	2.62			
Pinedale.	Little Colo.							.07	.07							.31	.05	.22	.22	.14	.17	.10											.19	.15	2.47				
Pinto.	do.				T.											T.	.31	T.	T.	.37	.05	.10	.40												.12	1.04			
Prescott.	Hassayampa						T.	.60	.14	.06						T.	1.20	.38	.07	.16		.06	.16	.44												3.27			
Prescott Dry Farm.	Verde.							.83		.25							.30			.31		.06	.11	.13												1.99			
Quartzsite.	Colorado.																		.10	.27	.16	.31	.06													0.90			
Redrock.	Santa Cruz.																		.25	.70	.38															1.48			
Rice.	Gila.										.15						.03	.03	.56	.02	.16	.35	.02													1.32			
Roosevelt.	Salt.																																						
Sacaton.	Gila.																			.18	.32	.29	.06													.07	0.92		
St. Johns.	Little Colo.									.25						*	*	*	*	.65	.50		.58											.12	2.10				
St. Michaels.	do.							.20	T.						T.	T.	T.	T.	T.	T.	T.	T.	.55	.20										T.		0.95			
San Simon.	Gila.																			.30	.35	.20														T.	0.85		
Seligman.	Verde.						T.																														T.	0.35	
Sentinel.	Gila.																				.35																T.	0.32	
Silverbell.	Santa Cruz.																			.01	.01																T.	0.36	
Snowflake.	Little Colo.																.24		.03			.08	.66	T.												T.	1.01		
Springerville.	do.							.40		.21				.42	.26	.18	.25		.17			.08	.66	T.												T.	2.57		
Supai.	Colorado.							.03											.06	.06	.10																	0.82	
Tempe.	Salt.																		1.59	.25		.15	.11	.02	.03												T.	2.23	
Thatcher.	Gila.							.25	.05		.05								.25	.75	.24	.35	.51														.08	3.48	
Tombstone.	San Pedro.							.04			.15		1.56						.03	.18	.24	.13	.40	.06											.08	.08	.27	4.54	
Truxton.	Colorado.						T.	.02	T.	T.									.12	.09	.21	.02	1.10	.02														1.58	
Tuba.	Little Colo.							.01		T.													.04	.19	.06													0.58	
Tucson.	Santa Cruz.						.09														.64	.04	.13	.21	T.	.03										.01	.16	1.32	
Tucson (1).	do.						.17														.02	.44	.18	.16	.20	.02											.22	1.48	
Tucson (2).	do.						T.	.14												T.	.73	1.06	.27	.40												.02	.20	3.06	
Vail.	do.																			.20	.55	.60		.70														2.75	
Walnut Grove.	Hassayampa						.30			.40										1.10	.40		.23														2.75		
Wickenburg.	do.						.29			T.																												0.54	
Willcox.	Desert.																																						1.80
Williams.	Colorado.							.50												.60		.30																1.80	
Winslow.	Little Colo.																																						0.17
Yuma.	Colorado.									T.													T.	.15													.02	0.17	
Yuma (1).	do.																				.03	T.	T.													T.	0.04		
<i>Nevada.</i>																																							
Caliente.	Colorado.																																					T.	
Las Vegas.	do.																				T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	0.35
Logan.	do.																				T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	0.05

* Precipitation included in that of the next measurement.
 † Separate dates of falls not recorded.
 ‡ 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.

TABLE 3.—Maximum and minimum temperatures at selected stations for July, 1913. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.								Utah.								New Mexico.							
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Fort Duchesne.		Hite.		Moab.		St. George.		Bloomfield.		Fort Bayard.	
	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.....	72	34	86	38	88	45	93	57	81	39	84	39	82	32	72	41	88	48	103	62	100	50	101	57	94	42	93	52
2.....	70	43	81	53	89	47	98	62	82	45	87	39	84	32	70	40	91	47	104	60	100	56	104	60	97	47	91	59
3.....	68	45	85	53	88	42	97	63	81	41	87	39	83	39	71	42	89	54	103	74	99	65	101	71	93	49	93	59
4.....	68	47	78	44	88	46	94	62	80	36	87	39	83	39	75	41	85	61	101	76	98	59	102	68	92	49	94	63
5.....	78	36	89	39	94	51	97	62	86	36	87	39	85	32	76	41	93	48	107	69	104	57	111	57	97	48	94	63
6.....	81	38	95	44	91	57	100	66	85	44	90	42	90	32	81	42	96	51	110	74	107	66	108	66	97	63	90	60
7.....	83	44	91	52	90	51	100	70	84	40	90	48	89	41	80	40	95	59	109	73	106	64	104	69	97	59	92	62
8.....	81	46	91	49	92	52	96	67	84	36	85	52	87	41	81	39	92	58	107	75	103	63	106	71	98	56	91	63
9.....	84	46	92	54	87	54	96	70	82	50	85	47	82	41	80	39	90	61	104	75	102	65	107	69	97	61	93	63
10.....	72	45	83	56	87	57	96	66	79	49	85	52	80	51	71	35	89	69	104	76	99	65	108	69	92	63	91	63
11.....	68	34	73	47	88	51	89	60	81	43	84	43	72	40	76	40	86	58	98	73	93	57	105	68	95	53	98	70
12.....	75	30	87	36	88	48	91	56	82	46	84	37	81	29	80	41	89	48	101	66	98	48	105	54	93	49	98	67
13.....	74	32	84	47	90	49	99	66	82	36	89	44	89	32	89	40	90	48	103	71	101	59	102	76	95	52	92	66
14.....	75	34	88	46	87	57	91	69	79	35	81	56	76	45	85	46	90	56	100	81	98	67	100	77	93	60	81	51
15.....	76	34	89	47	83	58	87	63	76	40	80	50	75	50	81	49	89	53	94	79	90	62	101	80	90	59	86	57
16.....	70	39	80	54	84	55	83	62	72	46	72	50	75	46	83	47	88	62	99	71	95	62	101	74	88	59	85	58
17.....	83	45	91	57	83	53	85	65	74	40	75	53	75	45	80	41	85	55	96	69	98	64	92	71	89	55	83	57
18.....	82	43	85	56	81	56	86	60	79	53	74	50	70	45	81	43	85	55	93	66	86	62	92	69	90	55	82	55
19.....	79	40	82	53	78	52	86	60	72	50	78	53	.....	.....	80	45	83	57	92	65	88	51	96	64	85	59	81	56
20.....	81	42	87	42	77	52	83	61	70	46	74	53	.....	.....	77	42	84	59	95	66	94	56	93	66	85	58	80	61
21.....	80	40	82	42	76	56	87	66	71	45	74	49	75	38	85	43	85	56	96	70	91	60	95	64	86	61	72	54
22.....	77	56	78	53	79	57	86	66	69	42	76	52	76	43	81	41	86	57	95	65	93	63	95	64	85	58	74	55
23.....	72	54	79	53	76	49	82	63	75	49	75	52	67	49	80	40	80	53	91	70	91	65	88	65	80	50	80	54
24.....	68	55	89	41	78	44	88	58	77	50	76	46	72	50	76	39	81	69	96	67	93	54	91	57	83	48	83	55
25.....	67	39	78	39	79	45	86	61	74	52	77	41	72	34	73	41	82	42	94	70	93	56	92	60	83	51	83	53
26.....	68	36	75	44	78	42	86	60	76	35	75	39	77	33	80	46	84	48	91	62	90	50	92	54	85	46	84	53
27.....	69	34	76	37	75	43	80	62	69	35	73	42	76	39	71	41	77	59	87	57	86	57	92	54	82	43	82	52
28.....	66	34	78	40	80	39	86	57	70	30	77	37	74	35	78	44	83	41	94	59	93	48	94	55	87	41	84	51
29.....	65	33	80	41	80	45	90	59	75	32	80	38	76	32	80	45	86	43	95	63	94	52	93	59	86	46	83	57
30.....	70	34	69	47	83	45	90	56	71	33	80	40	79	29	85	47	84	46	94	60	98	60	96	56	86	58	80	57
31.....	76	30	85	31	87	47	92	61	79	35	80	40	.....	.....	88	50	89	45	103	68	101	54	101	55	91	46	82	60
Mns.....	74.1	40.2	83.1	46.3	84.0	49.8	90.3	62.5	77.3	41.5	80.7	45.2	78.5 ^a	39.1 ^b	78.9	42.3	86.8	53.7	98.7	68.8	96.0	58.9	98.6	64.5	89.7	52.9	85.4	58.3

Date.	Arizona.																Logan, Nev.					
	Douglas.		Flagstaff.		Fort Apache. §§		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.			Tucson.		Yuma.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.
1.....	100	68	85	37	98	48	90	48	104	68	104	67	94	47	92	42	105	58	111	67	109	59
2.....	104	62	83	42	96	60	90	48	104	65	104	69	91	51	90	48	104	62	105	70	109	64
3.....	102	59	82	50	96	60	88	46	108	63	104	72	89	51	89	54	101	73	106	74	106	64
4.....	105	66	86	52	97	50	86	46	118	65	102	77	91	55	91	52	102	75	107	66	106	65
5.....	106	68	90	46	105	61	90	48	116	63	110	76	99	53	96	48	109	73	111	74	112	66
6.....	105	70	90	54	98	60	92	49	112	63	108	81	98	60	94	57	107	74	112	77	113	76
7.....	101	67	83	60	95	53	92	44	108	65	104	80	93	62	94	60	100	73	105	82	110	74
8.....	101	73	85	52	96	58	90	48	104	63	107	81	93	58	90	58	103	78	112	77	112	76
9.....	102	72	84	53	93	58	88	50	102	63	110	84	93	61	91	57	106	81	114	78	113	76
10.....	105	75	85	54	95	59	86	50	104	63	108	81	93	61	89	55	105	73	115	79	113	71
11.....	102	74	90	53	99	55	88	52	104	64	110	82	98	63	92	54	107	82	113	79	111	75
12.....	102	73	89	46	98	61	88	54	112	65	106	79	94	54	94	48	106	77	107	82	113	69
13.....	95	69	82	57	92	60	86	52	110	65	98	79	89	65	90	58	103	77	98	79	100	87
14.....	87	68	77	58	88	60	80	56	118	65	96	76	82	61	86	56	93	77	99	78	103	82
15.....	95	70	68	54	89	59	78	54	121	62	100	76	85	57	84	55	99	71	106	72	104	75
16.....	98	57	71	53	85	56	80	52	118	67	100	73	77	55	85	56	95	74	106	76	106	69
17.....	95	67	73	52	87	54	82	50	116	67	95	74	77	54	82	54	96	70	106	77	90	67
18.....	93	65	72	50	88	53	80	50	116	65	95	69	77	56	82	53	88	60	100	75	95	72
19.....	93	67	70	49	85	51	78	48	99	86	96	68	79	57	79	42	88	66	97	77	99	71
20.....	82	64	72	50	84	51	78	48	101	63	93	68	80	55	81	54	85	66	99	77	101	75
21.....	80	61	66	51	82	58	78	50	104	63	87	72	75	60	77	51	84	64	96	73	98	73
22.....	90	62	65	51	75	48	80	48	102	72	93	70	69	56	76	54	92	63	101	68	86	70
23.....	96	69	70	41	84	50	80	49	103	65	98	69	77	46	76	50	97	62	101	69	94	65
24.....	97	70	73	41	88	50	82	48	102	63	98	68	79	45	81	48	98	62	101	65	98	62
25.....	96	69	72	41	95	47	80	48	104	63	97	70	79	47	80	46	98	65	102	67	97	57
26.....	97	70	66	40	85	44	78	46	103	63	89	66	72	47	78	52	97	59	90	67	93	59
27.....	95	68	69	36	88	45	80	45	104	62	95	65	75	44	75	45	96	59	95	61	96	

Total Precipitation, July, 1913.



Departure of the Mean Temperature from the Normal, July, 1913.

