

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CLIMATOLOGICAL SERVICE

DISTRICT No. 9, COLORADO VALLEY

FREDERICK H. BRANDENBURG
DISTRICT EDITOR

REPORT FOR JUNE, 1913

Prepared under direction of HENRY E. WILLIAMS, Acting Chief U. S. Weather Bureau



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CLIMATOLOGICAL DATA FOR JUNE, 1913.

DISTRICT NO. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The weather conditions in the Colorado Basin were of the type common during June. There were great extremes of temperature, ranging from freezing in each of the different areas, except southeastern Nevada, to more than 100° in eastern Utah, western New Mexico, Arizona, and southeastern Nevada. The precipitation in the northern and central parts of the basin was somewhat above the normal, and in general caused a material improvement in the situation, but in the southern part the drought remained unbroken, although in southeastern Arizona and adjacent part of New Mexico beneficial showers occurred after the middle of the month. Grass on the ranges is still poor and stock water is scarce. Dust storms occurred on a number of dates. Snow fell on the 10th in the central mountain region of Colorado, and also over a considerable area on the 12th.

TEMPERATURE.

The monthly mean for the stations reporting was 66.9°, or 1.6° below the normal. The mean for June, 1912, was 67.9°. The highest monthly mean was 83.8° at Aztec, Ariz., and the lowest, 42.2°, at Corona, Colo. A well defined cool spell set in on the 8th and lasted till the 14th; temperatures were also low from the 26th to the end of the month. During the rest of the month temperatures in general were close to the normal. With a few local exceptions the highest temperatures occurred during the latter half of the month, and the lowest during the first half, principally on the 11th or 12th. The highest temperature, 114°, occurred at Maricopa, Ariz., on the 20th, and the lowest, 17°, at Big Piney, Wyo., on the 7th.

Details of temperature are summarized in the following table:

Areas of States in district No. 9.	Temperature.					
	Mean.	Departure from normal.	Highest.	Station.	Lowest.	Station.
Western Wyoming.....	55.2	+2.5	91	Green River.....	17	Big Piney.
Western Colorado.....	59.1	-0.4	97	Grand Valley.....	18	Fraser.
Eastern Utah.....	66.2	-0.7	103	Springdale.....	23	Scotfield.
Western New Mexico.....	66.6	-1.2	102	Rodeo.....	26	Luna.
Arizona.....	72.6	-2.8	114	Maricopa.....	20	Flagstaff No.1.
Southeastern Nevada.....	72.1	+2.4	105	Logan.....	36	Callente.

PRECIPITATION.

The average for the stations reporting was 0.67 inch, or 0.06 inch below the normal. The average for June, 1912,

was 0.93 inch. Showers occurred every day somewhere in western Colorado, but in the other areas they occurred less often and in fewer localities. In Arizona practically all the rainfall occurred between the 16th and 23d. A rainfall of an inch or more in 24 hours occurred at only 7 stations, 1 in western Wyoming and 6 in western Colorado. The greatest monthly amount was 4.88 inches at Gladstone, Colo., while none occurred at 2 stations in eastern Utah, 1 in western New Mexico, and 28 in Arizona. A measurable amount of snow fell at 6 stations in Colorado. At Horsefly, Colo., the fall was 8 inches, and at Marshall Pass, Colo., 13 inches.

The average number of days with 0.01 inch or more precipitation was 8 in western Wyoming, 7 in western Colorado, 3 each in eastern Utah and western New Mexico, and 1 each in southeastern Nevada and Arizona. For the district as a whole the average was 4 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.
1.35	+0.41	1.46	+0.56	1.45	+0.16	0.18	-0.36	0.18	-0.15	0.63	-0.09	0.18	+0.08

MISCELLANEOUS.

The average amount of sunshine in percentages, with departures from the normal, was as follows: Grand Junction, 71, -8; Durango, 74, -11; Phoenix, 96, +3; and Yuma, 98, +1.

The relative humidity reported was: Grand Junction, 41, +8 per cent; Durango, 50, +4; Phoenix, 26, +3; and Yuma, 40, +3.

RIVERS.

The volume discharged by the Green, Grand, and San Juan Rivers was much below the average and in case of the Grand the least in 6 years. The highest stages, which were much lower than common, occurred at the beginning of the month, except in the lower reaches of the Colorado River. At Topock, Ariz., the highest stage, 13.8 feet, occurred on the 8th, and at Yuma, Ariz., 21.3 feet occurred on the 11th.

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		Prevailing wind direction.		
<i>Wyoming.</i>																						
Big Piney.....	Lincoln.....	6,800	.....	47.2	.....	87	16	17	7	56	1.53	.....	0.60	.....	0	6	5	0	25	.....	Ira Dodge.
Daniel.....	do.....	6,740	14	53.2	+ 2.5	79	13	32	12	45	2.30	+ 1.17	0.57	.....	0	8	0	23	.....	nw.	J. M. Van Dervort.
Eden.....	Sweetwater.....	6,577	4	57.6	.....	84	21	34	6	45	1.97	.....	0.47	.....	0	7	5	23	.....	w.	Eden Val. L. & I. Co.
Green River.....	do.....	6,083	8	61.0	.....	91	22	34	30	47	0.96	.....	0.50	.....	0	5	0	15	.....	sw.	Geo. H. Maxom.
Pinedale.....	Fremont.....	7,167	7	54.9	.....	85	21	31	13	54	2.54	.....	0.77	.....	0	9	9	10	.....	nw.	U. S. Forest Service
Wamsutter.....	Sweetwater.....	6,702	.....	60.4	.....	90	21	34	12	51	2.02	.....	0.95	.....	0	7	16	6	.....	sw.	T. C. Sherman.
Willow Creek Cabin.....	Fremont.....	7,500	4	51.8	.....	75	19	24	1	49	4.33	.....	1.44	.....	0	14	5	13	.....	sw.	U. S. Forest Service.
<i>Colorado.</i>																						
Ashcroft.....	Pitkin.....	9,483	11	50.6	- 0.6	76	27	23	13	47	3.51	+ 2.01	1.22	.....	0	14	.....	.....	.....	.....	Dan McArthur.
Blue Valley Ranch.....	Grand.....	7,525	.....	58.8 ^b	.....	82 ^b	27	32 ^b	11	44 ^b	1.06	.....	0.42	.....	0	8	16	7	.....	.....	L. R. Hubbard.
Breckenridge.....	Summit.....	9,536	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	Albert S. McCullough.
Buford.....	Rio Blanca.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	Mrs. H. Genier.
Cascade.....	San Juan.....	8,900	6	.....	.....	.....	.....	.....	.....	.....	3.51	.....	1.45	.....	0	9	8	7	.....	.....	The Western Colorado P. Co.
Cedaredege.....	Delta.....	6,175	15	63.8	- 0.7	86	16	38	11	38	0.78	+ 0.28	0.25	.....	0	7	12	16	.....	.....	Harry A. Cobbett.
Cochetopa.....	Saguache.....	9,088	4	.....	.....	.....	.....	.....	.....	.....	1.32	.....	0.50	.....	0	6	3	11	.....	.....	Miss Bessie McDonough.
Collbran.....	Delta.....	6,000	20	62.0	- 0.4	83	15	37	12	37	1.11	+ 0.44	0.38	.....	0	6	15	11	.....	.....	A. A. Wood.
Columbine.....	Routt.....	8,766	3	.....	.....	.....	.....	.....	.....	.....	1.47	.....	0.38	.....	0	11	18	10	.....	.....	Mrs. M. A. Caron.
Columbine Ranch.....	Delta.....	6,925	3	.....	.....	.....	.....	.....	.....	.....	1.31	.....	0.43	.....	0	5	18	7	.....	.....	George W. Wade.
Corona.....	Grand.....	11,660	6	42.2	.....	60	27	25	11	27	2.87	.....	0.73	.....	20	.....	.....	.....	.....	.....	U. S. Weather Bureau.
Cortez.....	Montezuma.....	6,100	2	66.0	.....	88	16	31	11	49	T.	.....	T.	.....	0	0	20	5	.....	.....	W. G. Clucas.
Crawford (near).....	Montrose.....	6,600	3	61.5	.....	84	27	32	12	34	0.80	.....	0.35	.....	0	4	15	13	.....	.....	C. W. Roe.
Crested Butte.....	Gunnison.....	8,867	3	45.8	.....	75	20	25	13	45	2.86	.....	1.22	.....	0	8	6	11	.....	.....	Charles L. Ross.
Delta.....	Delta.....	4,965	23	66.6	- 1.2	94	20	40	10	49	0.26	- 0.06	0.15	.....	0	3	16	12	.....	.....	E. M. Getts.
Dillon.....	Summit.....	8,800	3	48.6	.....	78	27	25	3	50	1.25	.....	0.56	.....	0	9	7	12	.....	.....	Mrs. Nannie B. Strong.
Durango.....	La Plata.....	6,534	19	61.0	- 1.7	85	16	37	11	44	1.69	+ 0.91	0.96	.....	0	7	9	17	.....	.....	U. S. Weather Bureau.
Eureka.....	San Juan.....	10,000	6	.....	.....	.....	.....	.....	.....	.....	0.64	.....	0.14	.....	T.	5	14	10	.....	.....	The Western Colorado P. Co.
Fraser.....	Grand.....	8,560	4	47.4	.....	75	27	18	2	50	1.76	.....	0.42	.....	T.	11	1	3	.....	.....	L. D. C. Gaskill.
Fruita.....	Mesa.....	4,510	14	68.5	0	94	20	40	30	51	0.23	- 0.07	0.09	0	5	15	11	A. F. Willsea.
Glade Park.....	do.....	7,000	2	.....	.....	.....	.....	.....	.....	.....	0.82	.....	0.33	.....	0	6	13	16	.....	.....	A. F. Terrill.
Gladstone.....	San Juan.....	10,400	6	.....	.....	.....	.....	.....	.....	.....	4.88	.....	1.31	.....	0	10	9	7	.....	.....	The Western Colorado P. Co.
Glenwood Springs (near).....	Garfield.....	5,823	15	60.2	- 1.1	88	30	36	3	50	0.91	+ 0.23	0.30	.....	0	5	23	1	.....	.....	E. A. O'Neil.
Grand Junction.....	Mesa.....	4,602	22	71.0	- 1.6	92	20	47	12	37	0.37	- 0.03	0.24	.....	0	3	10	15	.....	.....	U. S. Weather Bureau.
Grandlake.....	Grand.....	8,153	5	.....	.....	.....	.....	.....	.....	.....	0.92	.....	0.50	.....	T.	4	21	5	.....	.....	Mrs. Belle Kaufman.
Grand Valley.....	Garfield.....	5,089	21	66.0	- 0.1	97	16	37	13	54	1.21	+ 0.61	0.52	.....	0	9	10	12	.....	.....	David Evans.
Gunnison.....	Gunnison.....	7,670	20	55.2	- 0.3	79	5	29	13	46	1.43	+ 0.79	0.85	.....	0	7	7	23	.....	.....	Clarence Adams.
Hayden.....	Routt.....	6,337	.....	60.8	.....	89	28	36	11	46	1.49	.....	0.46	.....	0	11	6	14	.....	.....	A. W. Friederich.
Hesperus (near).....	La Plata.....	7,610	1	.....	.....	.....	.....	.....	.....	.....	0.74	.....	0.50	.....	0	5	8	14	.....	.....	G. F. Snyder.
Horsefly.....	Montrose.....	8,700	3	.....	.....	.....	.....	.....	.....	.....	1.01	.....	0.70	.....	8.0	3	14	13	.....	.....	Lawrence J. Finch.
Ironton.....	Ouray.....	10,000	3	.....	.....	.....	.....	.....	.....	.....	3.14	.....	0.82	.....	T.	7	5	13	.....	.....	Mrs. Amanda E. Foley.
Lake City.....	Hinsdale.....	8,686	8	54.2	.....	79	16	29	13	42	2.42	.....	0.69	.....	0.4	13	5	20	.....	.....	J. F. Maurer.
Lay.....	Moffat.....	6,190	19	60.3	+ 1.0	86	16	29	4	54	0.70	+ 0.04	0.19	.....	0	6	14	5	.....	.....	A. G. Wallihan.
Mancos.....	Montezuma.....	6,960	4	62.3	+ 2.0	88	23	31	11	48	0.31	- 0.61	0.13	.....	0	3	7	9	.....	.....	Miss Gertrude Rickner.
Marble.....	Gunnison.....	7,951	4	55.0	.....	80	27	29	13	45	2.22	.....	0.85	.....	0	8	22	4	.....	.....	F. E. Morse.
Marshall Pass.....	Saguache.....	10,846	10	.....	.....	.....	.....	.....	.....	.....	2.06	+ 0.46	0.78	.....	13.0	6	10	12	.....	.....	Wm. L. Williams.
Meeker (near).....	Rio Blanca.....	6,182	21	57.8	- 1.4	84	23	31	7	49	0.85	- 0.17	0.38	.....	0	4	16	10	.....	.....	T. Baker.
Montrose.....	Montrose.....	5,811	24	64.6	+ 0.7	88	15	37	11	42	0.69	+ 0.33	0.22	.....	0	6	10	17	.....	.....	U. S. Reclamation Service.
Nast.....	Pitkin.....	7,953	3	52.6	.....	78	28	29	12	43	0.92	.....	0.71	.....	T.	2	18	8	.....	.....	Arthur Hanthorn.
Pagosa Springs.....	Archuleta.....	7,108	6	57.2	.....	87	7	27	6	54	1.71	.....	0.60	.....	0	10	13	13	.....	.....	E. T. Walker.
Palisades.....	Mesa.....	4,729	2	69.6	.....	96	27	40	29	50	0.76	.....	0.42	.....	0	3	13	12	.....	.....	F. P. Undergraaf.
Paonia.....	Delta.....	5,694	18	66.6	.....	0	91	16	40	12	43	1.15	+ 0.72	0.41	.....	0	5	9	.....	.....	J. M. Ponderwood.
Pitkin.....	Gunnison.....	9,500	4	.....	.....	.....	.....	.....	.....	.....	2.59	.....	0.85	.....	1.0	7	11	11	.....	.....	Mrs. Maggie Camman.
Pyramid.....	Rio Blanca.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. E. Egly.
Redcliff.....	Eagle.....	8,686	20	.....	.....	.....	.....	.....	.....	.....	1.04	- 0.31	0.50	.....	0	5	17	7	.....	.....	Dorothy Greiner.
Redvale.....	Montrose.....	6,300	.....	61.7	.....	85	16	33	11	40	1.25	.....	0.54	.....	0	4	13	7	.....	.....	Dr. E. S. C. Roster.
Rico.....	Dolores.....	8,824	11	.....	.....	.....	.....	.....	.....	.....	2.76	+ 1.59	0.72	.....	0	14	14	2	.....	.....	Clinton B. Smith.
Rifle.....	Garfield.....	5,437	2	65.0	.....	90	15	38	13	43	0.78	.....	0.22	.....	0	6	14	9	.....	.....	Herman Eiche.
River Portal.....	Montrose.....	6,570	7	65.3	.....	89	22	38	12	41	1.22	.....	0.37	.....	0	7	16	11	.....	.....	U. S. Reclamation Service.
Sapinero (near).....	Gunnison.....	8,125	10	52.4	- 0.9	74	15	29	13	41	1.80	+ 0.90	0.48	.....	0.8	9	11	13	.....	.....	W. F. Irving.
Shoshone.....	Garfield.....	6,110	3	65.4	.....	89	27	44	12	37	1.87	.....	0.41	.....	0	10	17	1	.....	.....	Central Colorado Power Co.
Silverton (near).....	San Juan.....	9,400	6	47.5	.....	70	16	20	7	45	3.73	.....	1.25	.....	0	11	7	10	.....	.....	The Western Colorado P. Co.
Soruca Lodge.....	Grand.....	9,600	5	.....	.....	.....	.....	.....	.....	.....	2.64	.....	0.55	.....	0	18	5	12	.....	.....	H. J. Willis.
Steamboat Springs.....	Routt.....	6,683	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Herbert B. Gee.
Tacoma.....	La Plata.....	7,300	6	.....	.....	.....	.....	.....	.....	.....	2.95	.....	0.90	.....	0	8	4	8	.....	.....	The Western Colorado P. Co.
Telluride.....	San Miguel.....	8,756	1	51.8	.....	78	16	25	13	50	1.74	.....	0.58	.....	3.1	8	9	16	.....	.....	David S. Painter.
Terminal Dam.....	La Plata.....	8,300	6	.....	.....	.....	.....	.....	.....	.....	2.51	.....	0.75	.....	0	9	15	10	.....	.....	The Western Colorado P. Co.
Yampa (near).....	Routt.....	8,000	4	.....	.....	.....	.....	.....	.....	.....	0.86	.....	0.41	.....	0	5	17	12	.....	.....	Wm. A. Charls.
<i>Utah.</i>																						
Aneth.....	San Juan.....	4,800	9	74.6	.....	95	20	40	11	42	0.00	.....	0.00	.....	0	0	25	4	.....	.....	Howard R. Antes.
Bluff.....	do.....	4,200	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Herbert H. Redd.
Boneta.....	Wasatch.....	6,750	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oscar Wilkins.
Canaan.....	Washington.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Lauritzen.
Castle Dale.....	Emery.....	5,500	14	59.4	- 4.1	88	23	27	12	51	0.35	- 0.20	0.10	.....	0	4	18	11	.....	.....	Miss Fay Jeffs.
Cisco.....	Grand.....	4,100	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John J. Anderson.
Dragon.....	Uinta.....	6,000	3	63.8	.....	87	16	34	12	48	1.64	.....	0.77	.....	0	12	9	13	.....	.....	Homer D. Ford.
Duchesne.....	Wasatch.....	5,500	6	60.4	.....	88	22	33	11	49</											

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

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

DISTRICT NO. 9. CLIMATOLOGICAL SUMMARY.

JUNE, 1913

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

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Number of rainy days, 0.01 inch or more.	Number of clear days.	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 partly cloudy days.			Number of cloudy days.			
Arizona—Continued.																					
Jerome.	Yavapai.	4, 743	16	73.0	- 3.6	96	21	48	11	31	0.17	- 0.08	0.17	0	1	22	8	0	s.	Dr. L. A. Hawkins.	
Keams Canyon.	Navajo.	6, 600	9	64.8		88	20	33	11	48	0.01		0.01	0	1	15	12	3	se.	Fred A. Bartram.	
Kingman.	Mohave.	3, 326	10	72.5	- 1.5	99	21†	48	4	44	0.01	- 0.06	T.	0	0	23	7	0	s.	Agent A. T. & S. F. Ry.	
Lakeside.	Navajo.	6, 500	15	59.1		86	30	30	12	51	0.51	+ 0.12	0.33	0	2	18	1	11	sw.	Prof. J. Peterson.	
McNeal.	Cochise.	4, 150	3								0.18		0.18	0	1	20	4	6	sw.	Mrs. Gladys Taylor.	
Maricopa.	Pinal.	1, 186	37	83.6	- 5.7	114	20	49	11	51	T.	- 0.08	T.	0	0	26	4	0	w.	Agent So. Pac. Ry.	
Marinette.	Maricopa.	1, 150	1											0	0					Theo. Katzenstein.	
Moccasin.	Mohave.	4, 500	1																	J. G. Maxwell.	
Mohawk Summit.	Yuma.	538	13			111	23				0.00	0.00	0.00	0	0	22	7	1	e.	Agent So. Pac. Ry.	
Naco.	Cochise.	4, 579	4								0.09		0.05	0	3	22	8	0	s.	Agent E. P. & S. W. R. R.	
Natural Bridge.	Gila.	4, 990	24								T.	- 0.27	T.	0	0	20	9	1	sw.	D. G. Goodfellow.	
Nurisio.	Apache.	8, 000	3								0.13		0.06	0	4	15	5	10	sw.	J. W. Forest Service.	
Oracle.	Pinal.	4, 502	19	71.8	- 6.3	94	19	46	14	42	0.10	- 0.29	0.10	0	1	23	4	3	w.	J. C. Hancock.	
Paradise.	Cochise.	5, 436	7	65.1		93	30	38	11	46	0.03		0.03	0	1	13	15	2	sw.	M. A. Israel, M. D.	
Parker.	Yuma.	345	17	82.5	- 2.4	111	24†	50	11	55	0.00	- 0.04	0.00	0	0	29	1	0	sw.	Mart. McDonald.	
Payson.	Gila.	5, 550	5	64.0		90	1	30	11	54	T.		T.	0	0	12	9	9	sw.	U. S. Weather Bureau.	
Phoenix.	Maricopa.	1, 108	19	81.9	- 2.5	105	21	55	11	39	0.00	- 0.12	0.00	0	0	23	6	1	e.	Geo. Acuff.	
Phoenix (1).	do.	1, 092	23	80.6	- 2.2	109	21	49	11	50 ^a	0.00	- 0.08	0.00	0	0	27	3	0	sw.	Salt River Valley Nurseries.	
Phoenix (2).	do.	1, 189	5	81.9		107	21†	53	11	43	0.00		0.00	0	0	27	2	1	sw.	Irion & Craig.	
Pinal Ranch.	Pinal.	4, 520	19								0.28	- 0.16	0.25	0	2					E. Thomas, jr.	
Pinedale.	Navajo.	6, 500	1								0.37		0.32	0	2	11	16	3	sw.	Celia F. Henning.	
Pinto.	Apache.	5, 660	9								T.		T.	0	0	25	4	1	sw.	Dr. J. W. Flinn.	
Prescott.	Yavapai.	5, 320	46	63.7	- 3.7	93	30	35	11	50	T.	- 0.27	T.	0	0	26	4	0	s.	L. L. Bates.	
Prescott Dry Farm.	do.	5, 008	1	68.0		92	20†	40	4	45	0.00		0.00	0	0	24	6	0	s.	W. E. Scott.	
Quartzite.	Yuma.	800	6	83.4		112	21	53	11	49	0.00		0.00	0	0	18	11	1	s.	Arthur Pritchard.	
Rice.	Gila.	2, 540	30																	U. S. Reclamation Service.	
Roosevelt.	do.	2, 173	9								0.10		0.10	0	1	16	14	0	w.	E. W. Hudson.	
Sacaton.	Pinal.	1, 280	6	81.9		108	20†	48	11	47	0.07		0.07	0	1					Alexander Shreeve.	
St. Johns.	Apache.	5, 650	9	64.4		92	27†	42	11	53 ^e	0.20		0.20	0	0	15	6	9	sw.	Rev. A. Weber, O. F. M.	
St. Michaels.	do.	6, 950	26	63.4	- 1.2	100	24†	31	11	49	T.	- 0.09	T.	0	0	16	13	1	sw.	Agent So. Pac. Ry.	
San Simon.	Cochise.	3, 609	27			100	24†	34	11	52	0.00	- 0.12	T.	0	0	22	5	3	ne.	Librarian, A. T. & S. F. Ry.	
Seligman.	Yavapai.	5, 219	8	64.1		94	30	34	11	52	0.00		0.00	0	0	30	0	0	sw.	Agent So. Pac. Ry.	
Sentinel.	Maricopa.	685	15			112	21	54	10	40	0.00		0.00	0	0	30	0	0	s.	Imperial Copper Co.	
Silverbell.	Pima.	2, 664	8			104	30				T.		T.	0	0	29	1	0	sw.	William J. Flake.	
Snowflake.	Navajo.	5, 644	6	61.8		92	30	28	11	60	0.03		0.03	0	1	8	3	19	sw.	U. S. Forest Service.	
Springerville.	Apache.	6, 862	3	60.6		83	14	29	2	49	0.13		0.10	0	3	19	7	4	sw.	Laura B. Symons.	
Supai.	Coconino.	3, 200	7	79.5		104	21	56	30	47	0.00		0.00	0	0	21	6	3		F. H. Simmons.	
Tempe.	Maricopa.	1, 165	9	81.0		109	21	49	11	46	0.00		0.00	0	0	24	6	0	nw.	J. H. Larson.	
Thatcher.	Graham.	2, 800	10	78.0 ^a	+ 1.3	105	27	45	12	53 ^a	0.17	- 0.07	0.17	0	1	21	7	2		F. N. Wolcott.	
Tombstone.	Cochise.	4, 550	18	76.8	- 0.5	98	18†	50	10	40	0.41	- 0.01	0.19	0	3	21	9	0	se.	Truxton Canyon Indian School.	
Truxton.	Mohave.	3, 997	3	67.4		97	21			56 ^e	0.03		0.03	0	1	18	9	3	s.	Ira E. Bell.	
Tube.	Coconino.	4, 500	13	69.2	- 2.0	91	30	44	11	43	0.17	- 0.07	0.15	0	2	16	13	1	sw.	University of Arizona.	
Tucson.	Pima.	2, 390	33	78.2	- 3.7	105	20	49	11†	46	0.08	- 0.10	0.05	0	2	20	10	0	s.	Rev. James F. Record.	
Tucson (1).	do.	2, 380	5	75.1		105	20	42	12	53 ^a	0.04		0.02	0	2	22	8	0	sw.	U. S. Coast & Geodetic Survey.	
Tucson (2).	do.	2, 526	4	77.8		104	20	50	11†	47	0.03		0.03	0	2	22	5	3	w.	Agent So. Pac. Ry.	
Vail.	do.	3, 421	14	72.2		102	20	42	10	49	T.	- 0.07	T.	0	0					J. O. Carter.	
Walnut Grove.	Yavapai.	3, 640	20								T.	- 0.06	T.	0	0					Agent S. F. P. & P. Ry.	
Wickenburg.	Maricopa.	2, 072	15	76.4	- 2.4	107	21†	44	10	51	0.06	+ 0.04	0.06	0	1	21	0	9		Agent So. Pac. Ry.	
Willcox.	Cochise.	4, 164	32	70.3		96	19†	40	1†	54	0.00		0.00	0	0	21	9	0	s.	E. J. Nordyke.	
Williams.	Coconino.	6, 750	13	59.2	- 3.9	90	30	30	12†	54	0.00	- 0.20	0.00	0	0	22	0	8		Winslow High School.	
Winslow.	Navajo.	4, 855	9											0	0	30	0	0	sw.	U. S. Weather Bureau.	
Yuma.	Yuma.	141	33	81.6	- 3.1	110	21	55	11	46	0.00	0.00	0.00	0	0	28	2	0	sw.	C. J. Wood.	
Yuma (1).	do.	150	6	76.0		104	19†			48 ^b	0.00		0.00	0	0						
Nevada.																					
Caliente.	Lincoln.	4, 407	3	62.2		90	20	36	2	48	0.04		0.04	0	1	23	7	0	se.	Salt Lake Route.	
Las Vegas.	Clark.	2, 033	11	76.6	+ 2.4	104	21	52	11	43	0.31	+ 0.22	0.24	0	2					C. P. Squires.	
Logan.	do.	1, 355	6	77.6		105	21†	51	11	49	0.08		0.08	0	1	27	3	0	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 June, 1913. District No. 9, Colorado Valley.

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		
Wyoming.																																	
Big Piney.....	Green.....				.01						.12													.40	.60	.30		.10			1.53		
Daniel.....	do.....				.10	T.	T.	T.	.10	.24	T.								T.	T.	T.			.27	T.	.32	.55	.57	.15	2.30			
Eden.....	do.....				.43					.47									T.	T.				.07	.40	.25	.25	.10			1.97		
Green River.....	do.....								.10	T.									T.	T.					.15	.15	.50	T.			0.96		
Pinodale.....	do.....					T.				.10	.48								T.						.15	.07	.46	.77	.33	.16	2.54		
Wamsutter.....	do.....									.37	.07														.01	.50	.95	T.	.02		2.02		
Willow Creek Cabin	do.....				.03	.15	T.	.02	.03	.27	.26	.50													.44	.13	.28	1.44	.45	.30	4.33		
Colorado.																																	
Ashcroft.....	Grand.....	.04	.03				.13	.35	.31	1.22	.56	.33	.05							.38	.04			T.	.01			.05	.01	3.51			
Blue Valley Ranch	Yampa.....	T.	T.				.02	.07	T.		.42	.16	.05							.05					.20	.09				1.06			
Breckenridge.....	Grand.....																																
Buford.....	White.....								.33	.12	1.45	.21	.78								.36	.11			.10	.05					3.51		
Cascade.....	San Juan.....			T.							.25	.03	.10								.07	.15			.10				.08		0.78		
Cedaredge.....	Gunnison.....								.20	.50	.30		.20							.08					.04						1.32		
Cochetopa.....	do.....			T.	T.			.20	.50	.30		.20								.08					.04						1.11		
Collbran.....	Grand.....					T.		.12	T.	T.	.38	.04	.18							T.	T.			T.	.05	.34	T.		T.		1.47		
Columbine.....	Yampa.....					T.		.02	T.		.03	.17	.18	.15							.06				.17	.04	.38	.21		.06	1.31		
Columbine Ranch.	Gunnison.....								.30	.38	.43													.05		.15					1.47		
Corona |||.....	Grand.....	.10		.01	.02	.01	.05	.10	.06	.12	.73	.43	.58											.06		.03	.17	.19	.10	.02	.02	2.87	
Cortez.....	San Juan.....									T.																					T.		
Crawford (near).	Gunnison.....							.10		.35		.25													.20						0.90		
Crested Butte.....	do.....		.05					.18	.22	.82	1.22	.13	T.	T.										T.	T.	.02	T.	T.	.22		2.86		
Delta.....	do.....							.10		.15																					0.26		
Dillon.....	Grand.....						.06		.03	.56	.08		.06							T.	T.			.12	.13	.01					1.25		
Durango.....	San Juan.....				T.			.16	.08	.96		.06								T.	T.			.31	T.		.02				1.69		
Eureka.....	do.....					T.		.10	.14	.10		.20								T.	T.			.10	T.		T.	T.		T.		0.64	
Fraser |||.....	Grand.....	.05						.12		.20	.42		.15												.30	.21					1.76		
Fruita.....	do.....				T.	T.		.01		T.	.04	T.	.09								.03				.03							0.23	
Glade Park.....	do.....				T.	T.		.01	T.	.01	T.	.02	T.	.25							.33				.33	T.	T.	T.	T.	T.	0.82		
Gladstone.....	San Juan.....				T.			T.	.11	.32	.14	.93	1.26											.27	1.31	T.		.35	.14		4.88		
Glenwood Springs (near).	Grand.....							.10	.19			.30													.22		.10				0.91		
Grand Junction.....	do.....					T.	T.	T.	T.	.01	T.	T.	.12								T.	T.					.24				0.37		
Grandlake.....	do.....					T.	T.	.10	T.	.20	.50	T.	.12																		0.92		
Grand Valley.....	do.....						.04	T.		.52	.08	.22	.02	T.											.02		T.	.23	.01			1.21	
Gunnison.....	Gunnison.....	.04			T.			T.		.20	.85	.12															.04					1.43	
Hayden.....	Yampa.....							.03	T.	T.	.46	.04	.13	T.						.06					.12	.13					1.49		
Hesperus (near).	La Plata.....							.03	T.	.50		.10																				0.74	
Horsely.....	Gunnison.....								T.	T.	.70														.16	.15	T.					1.01	
Ironton.....	do.....				T.	T.		.60	T.	.73	.11	.47													.82		.17					3.14	
Lake City.....	do.....		.01	.01				.12	.32	.11	.69	.41	.30												.12	.25						2.42	
Lay.....	Yampa.....							T.	.03	.19	.12	.15	.07																			0.70	
Mancos.....	San Juan.....							T.	.13	T.	.11													.07	T.	T.	T.					0.31	
Marble.....	Grand.....							.14	.34	.85	.18	.44													.08							2.22	
Marshall Pass.....	Gunnison.....			.15				.30	.30	.38		.78															.15					2.06	
Meeker (near).	White.....							T.		.35		.38															.10	T.		.02	0.85		
Montrose.....	Gunnison.....								.16	.21	.22														.08			.01			.01	0.69	
Nast.....	Grand.....							.21	.71	T.																						0.92	
Pagosa Springs.....	San Juan.....				T.			.22	.22	.11	.25	T.												T.	.09	.11	T.	.02	.04				1.71
Palaisades.....	Grand.....							T.	T.	.42	T.	.15																.19	T.		.60	0.76	
Paonia.....	Gunnison.....							T.	T.	.17	.37		.41															.11	.09		T.	T.	1.15
Pitkin.....	do.....					.09			.85	.35	.85	.22																				2.59	
Pyramid.....	Yampa.....								.05	T.																							
Redcliff.....	Grand.....			.10						.05	T.																					1.04	
Redvale.....	San Miguel.....								T.	T.	.16		.32													.54						1.25	
Rico.....	Dolores.....	.07				.11				.06	.47		.21	.35											.72	.14	.16	.11	.15	.11		2.76	
Rifle.....	Grand.....								.17	.17	.04	.07	T.													.14						0.78	
River Portal.....	Gunnison.....	T.				.12	.18	T.	.14	.24	.37															.11						1.22	
Sapinero (near).	do.....	T.					.35	.21	.32	.12	.48															.07	.21					1.80	
Shoshone.....	Grand.....					.02	.07	.17	.15	.41	.29	.10															.03		.41	.11		1.87	
Silverton (near).	San Juan.....					.07	.29	.11	.80	.22	.25	.25													.18	.23						3.73	
Spruce Lodge.....	Grand.....	.15		.22	.04		.06	.08	.02	.07		.55	.20	.09											.01	.47	.10	.03				2.64	
Steamboat Springs.	Yampa.....																																
Tacoma.....	San Juan.....						.25	.18		.90	.58	.33														T.		.04		.27		2.95	
Telluride.....	San Miguel.....	T.				T.	T.	T.	.04	T.	.53	.32	.58												.03		.02		.03		.40	1.74	
Terminal Dam.....	San Juan.....								.30	.14	.75	.33	.35													.09		.08	.22	.25		2.51	
Yampa (near).	Yampa.....								.08		.41															.12			.23		.02	0.86	
Utah.																																	
Aneth.....	San Juan.....																															0.00	
Bluff.....	do.....																																
Boneta.....	Green.....												.50																.45	.61	.21	.25	2.02

TABLE 2.—Daily precipitation for June, 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
<i>Arizona—Contd.</i>																																
Marinette.....	Agua Fria.....																															
Moccasin.....	Colorado.....																															
Mohawk Summit.....	Gila.....																															
Naco.....	San Pedro.....																		.02				.02		.05							
Natural Bridge.....	Verde.....																						T.									
Nutrioso.....	Little Colorado.....							.01	.02									.06		.04												
Oracle.....	San Pedro.....															.10																
Osborn.....	do.....																			T.	T.				.05							
Paradise.....	Desert.....																			T.	T.											
Parker.....	Colorado.....																				T.		T.									
Payson.....	Verde.....																					T.		T.								
Phoenix.....	Salt.....																							T.	T.							
Phoenix (1).....	do.....																															
Phoenix (2).....	do.....																															
Pinal Ranch||.....	Gila.....																	.05								.25						
Pinedale.....	Little Colorado.....																	.05								.32						
Pinto.....	do.....							T.	T.	T.																						
Prescott.....	Hassayampa.....																															
Prescott Dry Farm.....	Verde.....																				T.											
Quartzsite.....	Colorado.....																															
Rice.....	Gila.....																															
Roosevelt.....	Salt.....																										.10					
Sacaton.....	Gila.....																									.07						
St. Johns.....	Little Colorado.....																		.20													
St. Michaels.....	do.....							T.	T.										T.	T.	T.	T.	T.	T.								
San Simon.....	Gila.....																															
Seligman.....	Verde.....																															
Sentinel.....	Gila.....																															
Silverbell.....	Santa Cruz.....																		T.													
Snowflake.....	Little Colorado.....																		.03	T.												
Springerville.....	do.....									.02								.10							.01							
Supai.....	Colorado.....																															
Tempe.....	Salt.....																															
Thatcher.....	Gila.....																															
Tombstone.....	San Pedro.....																															
Truxton.....	Colorado.....							T.																								
Tuba.....	Little Colorado.....																															
Tucson.....	Santa Cruz.....																															
Tucson (1).....	do.....																		.03													
Tucson (2).....	do.....																		T.	T.	.02	.02										
Vail.....	do.....																								.03	T.	T.					
Walnut Grove.....	Hassayampa.....																															
Wickenburg.....	do.....																															
Willcox.....	Desert.....																															
Williams.....	Colorado.....																															
Winslow.....	Little Colorado.....																															
Yuma.....	Colorado.....																															
Yuma (1).....	do.....																															
<i>Nevada.</i>																																
Caliente.....	Colorado.....									.04																						
Las Vegas.....	do.....				T.	.24	T.	.07																								
Logan.....	do.....								T.										.08													

* 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 for June, 1913. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.								Utah.								New Mexico.								
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Hite.		Moab.		St. George.		Vernal.		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.	Max.	Min.
1.....	78	34	86	50	82	44	88	52	75	37	82	35	.....	77	40	95	56	96	49	95	45	97	38	89	53	84	50	
2.....	76	35	83	42	81	43	88	59	73	36	79	39	.....	81	35	97	56	95	50	95	47	98	39	89	45	85	52	
3.....	73	34	86	46	81	43	90	56	74	38	81	36	.....	80	36	94	56	95	48	94	46	96	37	89	40	84	51	
4.....	74	35	84	45	80	48	90	54	76	36	82	34	.....	81	36	93	55	94	46	93	54	96	35	82	54	82	47	
5.....	69	34	80	41	76	45	86	57	79	38	79	34	.....	80	39	93	59	94	49	92	57	94	36	87	46	80	48	
6.....	71	35	80	40	78	39	87	59	71	39	77	41	.....	77	35	94	59	95	48	91	54	95	38	88	41	81	51	
7.....	73	33	82	46	74	48	85	64	74	40	74	31	.....	82	60	93	54	91	54	92	40	74	53	79	49	80	49	
8.....	76	36	79	42	68	46	79	60	69	49	75	36	.....	82	39	92	66	95	64	94	53	95	45	80	48	77	46	
9.....	77	38	80	49	72	39	82	58	65	41	77	39	.....	80	37	91	67	90	63	83	63	82	46	81	48	77	51	
10.....	74	36	73	56	66	45	78	54	64	38	72	40	.....	76	32	77	69	82	64	74	54	90	48	77	50	81	55	
11.....	61	33	62	36	67	37	65	47	66	34	64	33	.....	70	30	75	55	67	42	79	52	97	47	77	37	79	44	
12.....	66	32	64	39	64	40	68	47	65	37	55	33	.....	75	38	81	48	75	46	90	54	98	48	74	40	80	48	
13.....	79	37	80	38	79	38	80	47	70	29	72	39	.....	79	37	91	55	86	45	96	54	97	50	82	37	85	50	
14.....	68	35	87	54	83	40	90	58	72	36	82	39	.....	80	35	97	58	93	49	97	58	95	48	80	42	88	50	
15.....	74	36	88	44	84	44	90	58	70	36	82	36	.....	81	40	97	56	97	48	95	58	98	42	91	43	88	54	
16.....	77	33	83	39	85	45	90	61	78	34	82	40	.....	71	35	97	62	95	58	98	56	95	44	91	52	84	51	
17.....	68	36	81	39	77	47	86	62	73	33	82	40	.....	80	47	96	60	88	65	90	66	94	43	87	57	84	54	
18.....	60	35	88	41	73	51	84	57	75	40	81	40	.....	81	45	95	67	92	54	96	59	90	41	80	55	82	51	
19.....	77	36	85	44	81	46	90	58	75	40	74	42	.....	82	46	99	68	97	52	97	62	93	42	89	56	84	53	
20.....	78	36	81	43	82	48	92	62	77	31	79	44	.....	85	47	100	63	98	57	100	51	96	52	93	54	82	48	
21.....	77	35	88	40	82	48	92	62	75	42	80	39	.....	86	48	99	68	98	62	101	47	95	53	90	62	82	54	
22.....	78	33	91	41	80	47	90	64	75	39	80	38	.....	85	46	97	75	99	65	101	59	93	42	89	53	79	49	
23.....	69	40	81	51	80	47	88	69	78	32	84	41	.....	82	41	98	76	93	67	96	69	94	43	89	51	82	49	
24.....	68	36	72	44	79	45	74	58	68	32	78	37	.....	80	40	91	72	92	62	95	64	95	42	87	50	83	52	
25.....	64	42	65	42	79	45	82	61	75	46	72	50	.....	82	45	93	75	87	62	91	70	90	44	80	49	85	53	
26.....	60	43	72	44	82	46	82	58	78	42	79	47	.....	80	40	89	76	85	67	88	71	97	46	92	61	87	52	
27.....	63	42	75	46	83	43	91	54	78	36	84	35	.....	81	45	92	70	90	59	87	61	98	43	93	47	88	55	
28.....	57	41	70	44	79	50	89	60	77	33	79	42	.....	82	48	85	74	84	56	84	59	97	44	91	66	87	61	
29.....	58	39	66	35	78	39	78	47	76	32	70	41	.....	80	47	89	56	84	43	90	49	96	45	85	38	87	55	
30.....	64	33	70	34	83	39	87	52	79	34	77	35	.....	82	49	95	59	92	44	99	54	98	44	88	39	80	55	
Mns.....	70.2	6.1	78.7	43.2	77.9	44.2	84.7	57.2	73.3	37.2	77.2	38.5	.....	79.9	40.5	92.5	63.2	90.7	54.6	92.4	56.7	94.5	43.5	86.3	48.9	83.2	51.3	

Date.	Arizona.														Logan, Nev.							
	Bisbee.		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.....	74	30	86	40	85	30	100	60	98	62	81	40	81	38	97	53	96	58	97	53
2.....	74	31	88	40	82	36	100	58	93	61	81	39	81	41	98	52	99	57	96	55
3.....	72	31	87	40	84	34	100	59	94	63	79	39	83	40	96	52	98	63	97	54
4.....	71	34	83	40	82	34	101	60	93	63	79	44	80	41	93	59	98	65	94	59
5.....	70	34	82	42	82	36	100	61	95	65	76	45	81	40	94	53	96	63	95	58
6.....	71	33	82	42	84	36	101	59	93	66	76	44	80	41	94	56	98	65	93	58
7.....	73	35	87	41	82	36	101	63	96	66	82	44	75	46	96	58	100	66	94	58
8.....	74	34	86	48	84	38	103	62	98	67	81	44	76	45	98	56	101	64	97	57
9.....	69	35	84	40	84	36	98	58	95	67	78	41	75	44	95	56	88	62	86	59
10.....	57	40	78	37	82	36	95	55	80	60	62	41	74	49	90	53	82	57	77	53
11.....	66	28	80	38	80	38	105	50	88	55	71	35	70	31	88	49	92	55	86	51
12.....	72	33	83	43	82	36	108	59	94	59	79	43	75	40	93	49	98	60	92	61
13.....	77	36	89	43	78	38	108	60	97	63	87	46	82	43	96	55	100	59	100	58
14.....	76	37	90	45	76	40	109	61	99	66	81	44	83	45	96	57	102	59	100	59
15.....	78	39	92	52	78	38	110	63	97	71	85	46	86	52	97	61	101	60	94	66
16.....	78	42	90	52	80	39	110	60	98	72	82	50	85	55	97	65	100	68	101	62
17.....	76	51	81	52	78	40	108	61	99	74	84	55	75	51	97	65	102	60	100	63
18.....	76	41	90	52	78	38	105	60	101	72	88	47	80	46	101	66	105	62	102	64
19.....	78	41	91	49	76	38	106	60	102	72	87	50	85	56	102	64	106	68	101	58
20.....	82	41	92	52	80	40	108	60	105	73	89	48	86	52	105	65	109	68	104	56
21.....	79	45	90	51	82	42	108	60	105	78	90	49	82	53	99	74	110	67	105	56
22.....	79	46	93	49	84	46	108	60	103	78	89	56	79	46	100	68	107	67	105	60
23.....	75	45	88	44	86	46	107	60	100	74	83	60	82	45	98	70	104	68	99	70
24.....	74	42	85	51	82	46	111	60	98	69	82	50	82	50	98	64	101	70	96	66
25.....	73	54	86	47	84	42	111	69	100	71	80	58	81	57	99	65	101	72	95	67
26.....	72	51	87	48	86	42	110	68	96	69	77	55	82	54	97	62	94	67	91	70
27.....	70	51	89	48	86	42	97	68	94	68	78	50	81	50	97	60	92	68	89	65
28.....	70	43	85	44	84	40	103	62	89	67	78	43	81	55	94	63	95	64	90	57
29.....	77	30	90	41	86	40	106	60	98	59	85	36	81	39	97	61	103	60	94	57
30.....	82	31	93	46	88	40	107	60	101	64	93	43	87	38	101	58	109	63	105	56
Means.....	73.8	38.8	86.9	45.2	82.2	3														

Total Precipitation, June, 1913.



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

