

CLIMATOLOGICAL DATA FOR SEPTEMBER, 1912.

DISTRICT NO. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The month was marked by the general absence of the stability in pressure common to September; in fact, conditions resembled those that occur a month later. Low pressure in southern districts predominated, favoring the southward movement of anticyclonic areas, of which a number appeared at short intervals in the north. As the general drift of air was from northerly regions, the weather was unusually cold. The entire district was affected and mean temperatures were the lowest of record for September. Destructive frosts brought the growing season, which was one of the shortest in years, to an abrupt close generally about a month earlier than usual for most crops in the central part of the district, while damaging frosts occurred in New Mexico and freezing weather in the northern half of Arizona, except in the extreme west. Marked departures from the average also occurred in connection with the precipitation, the month having been one of the driest Septembers in many years, thus making the unusual combination of a cold and dry month. In Arizona the average precipitation was the least since 1892. While the dry weather was favorable to the proper curing of grass on the ranges, there was a scarcity of water for stock in localities toward the end of the month.

TEMPERATURE.

The mean of the 144 stations reporting was 60.6°, or 4.7° below the normal. The mean for September, 1911, was 67.2°. The highest monthly mean was 86.2° at Mohawk Summit, Ariz., and the lowest, 30.8°, at Corona, Colo. The first half of the month in Arizona was colder than the average, the deficiency being marked on a number of days; the latter half, however, was generally somewhat warmer than the normal. In the remainder of the district, except 2 or 3 days, the weather was cold, and daily deficiencies of 10° or more were not uncommon, the deficiency reaching 24° at Grand Junction, Colo., on the 15th. The highest temperatures in Arizona occurred principally on the 18th or 19th, but in the remainder of the district they generally occurred in the first decade. Ninety degrees or higher was recorded at several stations in Utah and New Mexico and at the majority of stations in Arizona. The lowest temperatures occurred generally on the 21st-23d. Freezing occurred at all stations in Wyoming, and at all but one or two stations in Colorado and Utah, and at a number of stations in New Mexico and Arizona. The highest temperature, 110°, occurred at Mohawk Summit, Ariz., on the 13th, and the lowest, 8°, at Corona, Colo., on the 21st.

Details of temperature are summarized in the following table:

Areas of States in district No. 9.	Temperature.					
	Mean.	Departure from normal.	High-est.	Station.	Low-est.	Station.
Western Wyoming.	44.8	-3.6	84	Green River.....	10	Bigpiney.
Western Colorado.	50.0	-6.5	87	At 2 stations.....	8	Corona.
Eastern Utah.....	54.6	-5.5	98	Price.....	10	Strawberry Tunnel (east). Dulce.
Western New Mexico.	59.9	-4.7	98	Rodeo.....	11	Dulce.
Arizona.....	69.7	-3.7	110	Mohawk Summit..	11	Flagstaff No. 1.
Southeastern Nevada.	65.2	98	Logan.....	28	Caliente.

PRECIPITATION.

The average for the 207 stations reporting was 0.52 inch, or 0.84 inch below the normal. The average for September, 1911, was 2.25 inches. While there were only 2 days without precipitation, the amounts were small, an inch or more falling only at 11 stations, 5 in New Mexico and 6 in Arizona. The showers occurred principally in the first half of the month, although somewhat general in Colorado on the 23d and 24th, and in Arizona on the 29th and 30th. The greatest monthly amount was 3.91 inches at Corona, Colo., while none occurred at 1 station in western Colorado, 4 in eastern Utah, 7 in western New Mexico, 14 in Arizona, and 2 in southeastern Nevada. No snowfall was reported from New Mexico, Arizona, and southeastern Nevada, but falls of 10 inches or more occurred at 9 stations in Colorado, with the maximum, 23 inches, at Corona.

The average number of days with 0.01 inch or more precipitation was 4 in western Wyoming and western Colorado, 2 in eastern Utah and western New Mexico, 1 in Arizona, and no day in southeastern Nevada.

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.
0.81	-0.73	0.89	-0.82	0.33	-1.16	0.25	-0.88	0.43	-0.79	0.73	-1.04	0.17	-0.72

MISCELLANEOUS.

The average amount of sunshine was from 3 to 8 per cent above the normal. The following are the values: Grand Junction, 79; Durango, 90; Phoenix, 94; and Yuma, 97 per cent.

The relative humidity reported was as follows: Grand Junction, 48; Durango, 52; Phoenix, 34; and Yuma, 40 per cent.

TABLE 1.—Climatological data for September, 1912. District No. 9—Continued.

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, unmelted.	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>Utah—Continued.</i>																						
Manila	Uinta	6,225	2	49.1		80	24	21	21	49	1.29		0.51	3.2	6	13	7	10	Daniel M. Nelson.			
Moab	Grand	4,000	32	62.0	-4.0	91	24	29	22	53	0.08	-1.01	0.08	0	1	18	5	7	Henry Crouse.			
Monticello	San Juan	7,545	3																Geo. F. Barton.			
New Harmony	Washington	5,200											0.95	0	1				Geo. F. Prince.			
Orderville	Kane	6,660	2										0.19	0	1				F. A. Porter.			
Pine Valley	Washington	6,000	1										0.36	0	1	20	3	s.	Mason Gardner.			
Price	Carbon	5,557	1	59.0		98	7	29	15	53	0.07		0.05	0	2	21	3	6	R. H. Thompson.			
Ranch	Kane	6,700	9	50.4		81	19	25	5	46	0.00		0.00	0	0	25	5	0	J. W. Seaman.			
San Rafael	Emery	4,250											0.03	0	1	23	5	0	W. C. Foy.			
St. George	Washington	2,880	25	65.7	-5.5	93	19	33	22	54	T.	-0.56	T.	0	0	13	6	6	A. B. Ballantyne.			
Scotfield	Carbon	7,625	2	43.4		74	2	12	21	53	1.66		0.78	0.4	7	12	1	7	B. Newren.			
Springdale	Washington	3,500	4																Hattie Wood.			
Strawberry Tunnel (east)	Utah	7,300	4	39.9		71	2	10	21	54	1.38		0.80	1.0	4	17	5	8	U. S. Reclamation Service.			
Sunnyside	Carbon	5,280	7																A. Rader.			
Teasdale	Wayne	7,000	2	51.1		77	20	24	26	41	0.69		0.60	T.	2	17	6	7	Henry Cullum.			
Thompsons	Grand	5,150	1	60.0		84	1	32	15	35	T.		T.	0	0	23	7	0	A. M. Starmont.			
Tropic	Garfield	7,000	15	54.5	-3.2	85	20	28	5	48	0.00	-1.32	0.00	0	0	21	6	2	E. P. Bolton.			
Trout Creek Ranger	Uinta	9,200	1										1.38	5.5	7	13	10	10	Forest supervisor.			
Vernal	do.	5,050	15	52.0	-8.2	83	1	23	21	47	0.40	-0.87	0.13	0.5	4	26	2	2	S. P. Trim.			
Victor	Emery	5,250											1.03	0	0	0	0	0	F. F. Noyes.			
White Rocks	Uinta	6,200											0.49	0	5	16	10	4	C. F. Keil.			
Woodside	Emery	4,645	1	56.8		86	1	25	22	49	0.73		0.53	0	2	18	10	12	D. P. Adams.			
<i>New Mexico.</i>																						
Alma	Socorro	5,500	15	63.0	-4.3	92	19	30	23	57	0.43	-1.47	0.39	0	2				sw.	M. A. Balke.		
Aragon	do.		5	58.4		85	12	29	22	52	0.30		0.25	0	2	24	6	0	sw.	John R. Milligan.		
Aztec	San Juan	5,590	12										T.	0	0	19	11	0	sw.	Dr. T. J. West.		
Berger's Ranch	McKinley	8,000		51.3		88	11	17	22	58	0.00		0	0	0	24	5	1	w.	Herman Berger.		
Blackrock	do.	6,000	3	56.7		84	9	22	17	44	0.09		0.09	0	1	29	1	0	s.	Patrick Des Georges.		
Bloomfield	San Juan	5,500	17	58.4	-6.0	88	12	22	21	53	0.08	-0.70	0.08	0	1	19	11	0	sw.	Fred Le Clerc.		
Cambay	Luna	4,215	13										0.15	-0.92	0.12	0	2	6	22	2	w.	Agent, Southern Pacific Co.
Cliff	Grant	4,470	12	66.0	-4.4	94	19	27	23	62	0.10	-1.70	0.10	0	1				sw.	W. C. Belden.		
Columbus	Luna	4,054	3			90	2	48	30	36	0.36		0.28	0	2	23	0	7	se.	Agent E. P. & S. W. R. R.		
Deming	do.	4,333	35	69.7		92	1	42	30	44	0.00	-1.39	0.00	0	0	28	0	2	w.	Agent, Southern Pacific Co.		
Dulce	Rio Arriba	6,756	15	51.0	-5.2	90	7	11	23	57	0.29	-1.37	0.12	0	3	21	9	0	sw.	Wm. R. Beyer.		
Fort Bayard	Grant	6,152	37	64.0	-2.5	85	19	44	22	34	1.17	-0.75	1.05	0	3	26	4	0	w.	U. S. General Hospital.		
Fruitland	San Juan	4,800	18	57.3	-6.2	85	10	24	20	51	0.01	-0.79	0.01	0	1	22	8	0	w.	Cyril J. Collyer.		
Gage	Luna	4,486	12										0.00	-1.10	0	0	7	23	0	w.	Agent, Southern Pacific Co.	
Gila Planting Station	Grant	6,475	1	62.6		83	19	41	22	35	0.45		0.38	0	4	24	4	2	w.	U. S. Forest Service.		
G. O. S. Ranch	do.	8,000		59.6		88	1	30	22	52	2.02		1.61	0	3	20	8	2	w.	Victor Culberson.		
Hachita	do.	4,504	3			94	19	45	30	30	0.00		0	0	0	29	1	0	sw.	Agent E. P. & S. W. R. R.		
Haynes	Rio Arriba	6,600	1	54.4		80	6	16	22	54	0.00		0	0	0	24	3	3	sw.	Dr. John R. Haynes.		
Hermanes	Luna	4,451	3																sw.	Agent E. P. & S. W. R. R.		
Lordsburg	Grant	4,245	29	69.8	-4.5	93	19	42	23	46	0.00	-0.91	0	0	0	22	6	2	sw.	J. H. McClure.		
Luna	Socorro	7,300	10	52.4		80	18	20	22	54	0.42	-1.29	0.27	0	2	15	15	0	sw.	C. B. Martin.		
Mimbres	Grant	5,007	7										2.94	1.38	0	4	21	8	1	sw.	Charles Dennis.	
Pinos Altos (near)	do.	7,253	1										0.90	0	6	20	10	0	sw.	O. L. Scott.		
Pratt	do.	4,415	3			92	7	50	27	59	1.20		1.20	0	1	25	3	2	w.	Agent E. P. & S. W. R. R.		
Putnam	San Juan	6,200		60.4		91	1	23	21	59	0.00		0	0	0	28	0	2	sw.	C. F. Spader.		
Redrock	Grant	4,150	7										T.	0	0	26	2	2	sw.	Robt. H. Woods.		
Rodeo	do.	4,118	3			98	2	46	23	41	0.10		0.10	0	1	20	9	1	sw.	Agent E. P. & S. W. R. R.		
Silver City	do.	5,860	1	64.0		87	6	41	22	41	0.41		0.33	0	3	28	1	1	sw.	E. M. Brumback.		
<i>Arizona.</i>																						
Allalres Ranch	Cochise	4,184	16										0.90	-0.31	0.90	0	1	26	2	sw.	Thomas Allaire.	
Alpine	Apache	8,500	2	52.2		79	17	23	30	53	0.70		0.30	0	3	21	4	5	w.	U. S. Forest Service.		
Ash Fork	Yavapai	5,229											T.	0	0	27	0	3	sw.	Do.		
Aztec	Yuma	492	14																sw.	Agent, Southern Pacific Co.		
Benson	Cochise	3,523	33	71.2	-5.8	95	18	48	16	44	0.60	-0.32	0.60	0	1	27	0	3	w.	Do.		
Bisbee	do.	5,500	22																sw.	Prof. L. N. Gooding.		
Blue	Greenlee	6,000	2										0.41	0.41	0	1	26	4	0	s.	Mrs. Mary A. Jones.	
Bonita	Graham	4,916	38										0.10	-1.50	0.10	0	1	17	8	5	sw.	A. H. Jelley.
Bowie	Cochise	3,756	36	72.9	-0.7	99	8	44	14	46	1.10	-0.08	1.00	0	2	13	13	4	se.	Agent, Southern Pacific Co.		
Buckeye	Maricopa	980	20	77.4	-3.3	107	20	47	26	55	0.00	-0.56	0.00	0	0	30	0	0	sw.	H. E. Kell.		
Canille	Santa Cruz	5,225	3										0.04	0.04	0	1	15	15	0	sw.	Robt. A. Rodgers.	
Casa Grande	Pinal	1,396	28										0.00	-0.51	0.00	0	0	25	5	0	sw.	Agent, Southern Pacific Co.
Casa Grande Ruins	do.	1,422	4	77.4		103	18	48	27	51	0.11		0.09	0	2	26	2	2	sw.	Frank Pinkley.		
Cavecreek	Maricopa	1,520	4																sw.	E. A. Howard.		
Chin Lee	Apache	6,900	4	58.9		85	19	24	22	51	0.14		0.10	0	2	12	10	8	sw.	Rev. L. Ostermann, O. F. M.		
Charlson's Mill	Graham	8,000	7	57.4		73		42	22	30	0.56		0.55	0	2	18	11	1	sw.	Hiram R. Charlson.		
Clifton	Greenlee	3,584	21	78.4		98	18	58	24	37	T.	-1.64	T.	0	0	29	1	0	sw.	Ariz. & N. Mex. Railway Co.		
Cline	Gila	2,300	12	69.1	-6.8	99	12	52	37	2	0.70	-0.31	0.25	0	3	24	5	1	sw.	W. M. Clanton.		
Cochise	Cochise	4,219	14			93	18						0.90	-0.54	0.65	0	2	25	1	sw.	Agent, Southern Pacific Co.	
Columbia	Yavapai	1,900	12																sw.	M. J. Nolan.		
Courtland	Cochise	4,543	3										1.22	1.22	0	1	23	7	0	n.	Agent E. P. & S. W. R. R.	
Dos Cabezos	do.	5,250	4	63.8		86	19	40	27	40	0.70		0.35	0	2	24	4	2	sw.	Neil Erickson.		
Douglas																						

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				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 overcast cloudy days.	Prevailing wind direction.
Arizona—Contd.																				
Holbrook.....	Navajo.....	5,069	22	64.6	- 3.1	90	30	31	29†	64	0.00	- 0.84	0.00	0	0	27	1	2	sw.	Thorwald Larson.
Indian Oasis.....	Pima.....	3,000	2																	Joseph Manager.
Intake.....	Gila.....	2,230	7								0.85		0.85	0	1	24	1	5	w.	U. S. Reclamation Service.
Jerome.....	Yavapai.....	4,743	15	70.0	- 2.9	91	19†	50	9	34	T.	- 1.14	T.	0	0	21	2	0	w.	Dr. L. A. Hawkins.
Keams Canyon.....	Navajo.....	6,600	7	58.0		81	6†	27	22	47	0.01		0.01	0	1	23	7	0	w.	Fred E. Bartram.
Kingman.....	Mohave.....	3,326	10	71.6	- 1.5	95	20	42	4	45	0.00	- 1.00	0.00	0	0	30	0	0	s.	Agent A., T. & S. F. Ry.
Lakeside.....	Navajo.....	6,500	15	56.0		79	11	26	21†	46	1.52	- 0.66	1.20	0	2	20	4	6	sw.	Prof. Joseph Peterson.
Lewis Springs.....	Cochise.....	4,029	3								0.19		0.16	0	2	20	5	5	sw.	Agent E., P. & S. W. R. R.
Lowell Observatory.....	Coconino.....	7,180									0.03		0.03	0	1					Vesto M. Shipper.
McNeal.....	Cochise.....	4,150	2								1.09		0.74	0	2	21	3	1	sw.	Miles McNeal.
Maricopa.....	Pinal.....	1,186	36	80.3	- 2.4	108	19†	47	27	54	0.00	- 0.54	0.00	0	0	25	5	0	w.	Agent So. Pac. Ry.
Mesa.....	Maricopa.....	1,244	17	74.1	- 7.5	101	17	52	26	45	0.05	- 0.55	0.65	0	1	24	6	0	sw.	C. L. Diehl.
Mocasin.....	Mohave.....	4,500																		R. A. Ward.
Mohawk Summit.....	Yuma.....	538	13	86.2	- 2.0	110	13	60	5	42	T.	- 0.20	T.	0	0	28	1	1	e.	Agent So. Pac. Ry.
Naco.....	Cochise.....	4,579	3								2.15		1.70	0	2	24	2	4		Agent E., P. & S. W. R. R.
Natural Bridge.....	Gila.....	4,990	23								T.	- 1.87	T.	0	0	22	8	0	sw.	D. G. Goodfellow.
Oracle.....	Pinal.....	4,500	20	71.4	- 2.2	91	19	50	9	31	0.34	- 1.09	0.32	0	2	24	2	4	w.	J. W. Lawson.
Osborn.....	Cochise.....	4,676	3								0.68		0.51	0	2	14	8	8	w.	Agent E. P. & S. W. Ry.
Paradise.....	do.....	5,436	5	63.0		89	18	36	22	48	0.24		0.24	0	1	17	10	3	sw.	J. C. Hancock.
Parker.....	Yuma.....	345	15	76.6	- 6.9	108	18†	45	26	56	T.	- 0.36	T.	0	0	29	0	1	sw.	M. A. Israel, M. D.
Payson.....	Gila.....	5,550	4	61.8		88	19	32	23	52	1.18		1.07	0	3	24	0	6		Mart McDonald.
Phoenix.....	Maricopa.....	1,108	18	78.8	- 2.5	102	18	56	27	40	0.14	- 0.87	0.14	0	2	23	5	2	e.	U. S. Weather Bureau.
Phoenix (1).....	do.....	1,092	21	77.2		104	14	49	23†	49	0.10	- 0.52	0.06	0	2	23	5	2	w.	Geo. Acuff.
Phoenix (2).....	do.....	1,189	4	77.5		101	17	53	33†	40	0.08		0.08	0	1	25	0	5	sw.	Salt River Valley Nurseries.
Pinal Ranch.....	Pinal.....	4,520	18								0.73	- 1.19	0.71	0	2	28	0	2		Irion & Craig.
Pinto.....	Apache.....	5,660	8								0.26		0.14	0	2	23	4	4	sw.	Mrs. Celia F. Henning.
Prescott.....	Yavapai.....	5,320	29	59.0	- 5.7	86	19	30	22	49	0.30	- 0.77	0.30	0	1	27	2	1		John W. Flinn, M. D.
Prescott Dry Farm.....	do.....			61.0		89	19	31	22†	51	0.00		0.00	0	0	19	11	0	s.	L. L. Bates.
Quartzsite.....	Yuma.....	800	5	78.2		105	19	50	32	47	0.06		0.06	0	1	25	4	1	nw.	W. E. Scott.
Redrock.....	Pinal.....	1,864	5								0.08		0.05	0	2				sw.	A. B. Lee.
Rice.....	Gila.....	2,665																		Arthur Pritchard.
Roosevelt.....	do.....	2,175	8																	U. S. Reclamation Service.
Saavaton.....	Pinal.....	1,280	5	78.3		104	18	49	27	49	0.00		0.00	0	0					E. W. Hudson.
St. Johns.....	Apache.....	5,650	10	59.3		86	7†	23	22	55	0.62	- 0.76	0.46	0	2	19	6	5	sw.	Alex. Shreeve.
St. Michaels.....	do.....	6,950	24	56.2	- 2.5	80	18	22	22†	51	T.	- 1.56	T.	0	0	15	13	2	sw.	Rev. A. Weber, O. F. M.
Salome.....	Yuma.....	1,875	5	75.0		100	2†	46	14	52	0.07		0.07	0	1	27	2	1	sw.	Mrs. M. B. Swartz.
San Simon.....	Cochise.....	3,609	28								0.25	- 0.53	0.15	0	2	15	15	0	sw.	Agent So. Pac. Ry.
Seligman.....	Yavapai.....	5,219	6	61.9		95	20	29	22	57	T.		T.	0	0	25	0	5	sw.	Librarian, A., T. & S. F. Ry.
Sentinel.....	Maricopa.....	685	14	76.8	- 9.5	106	20	50	22†	49	0.13	- 0.16	0.13	0	1	24	6	0	sw.	Agent So. Pac. Ry.
Silverbell.....	Pima.....	2,650	7	80.6		99	18†	60	27	33	0.00		0.00	0	0	27	0	3	s.	Imperial Copper Co.
Snowflake.....	Navajo.....	5,641	6	56.3		83	5	22	21	57	0.23		0.23	0	1	18	11	1	sw.	William J. Flake.
Springerville.....	Apache.....	6,862	2	55.6		80	19	22	22	52	0.65		0.50	0	2	25	4	1	sw.	U. S. Forest Service.
Supai.....	Coconino.....	3,200	6	72.0		97	19	46	22	42	0.05		0.05	0	1	28	2	0		Laura B. Symons.
Tempe.....	Maricopa.....	1,165	8	77.6		103	18	49	21	47	0.12		0.07	0	2	25	5	0	sw.	F. H. Simmons.
Thatcher.....	Graham.....	2,800	9	73.4		100	6†	41	21	55	0.33		0.33	0	1	26	4	0		Prof. J. H. Larson.
Tombstone.....	Cochise.....	4,550	17	73.7	+ 3.6	99	19	49	8	45	0.83	- 0.99	0.46	0	2	24	5	1		F. N. Wolcott.
Truxton.....	Mohave.....	3,997	3	69.1		92	19	46	5	37†	0.10		0.10	0	1	28	1	1		Truxton Canyon Ind. School.
Tuba.....	Coconino.....	4,500	12	61.9	- 8.0	87	1†	32	22	47	0.03	- 0.57	0.03	0	1	21	5	4	sw.	Ira E. Bell.
Tucson.....	Pima.....	2,390	32	76.8	- 3.6	101	19	51	9	45	0.01	- 0.91	0.01	0	1	15	12	3	nw.	University of Arizona.
Tucson (1).....	do.....	2,380	4	73.4		102	19	45	9†	52	0.00		0.00	0	0	27	3	0	nw.	James F. Record.
Tucson (2).....	do.....	2,626	1	75.6		100	19	50	9	44	0.53		0.53	0	1	25	2	3	w.	U. S. Coast & Geodetic Survey!
Vail.....	do.....	3,421	14	73.2	+ 1.2	97	17	50	2	46	0.35	- 0.24	0.35	0	1	23	5	2		Agent So. Pac. Ry.
Walnut Grove.....	Yavapai.....	3,649	20								0.39	- 0.35	0.39	0	1					J. O. Carter.
Wickenburg.....	Maricopa.....	2,072	14	73.0	- 3.9	98	22†	48	5†	48	0.00	- 0.62	0.00	0	0	21	9	0	n.	Agent S. F., P. & P. Ry.
Willcox.....	Cochise.....	4,164	31	68.8	- 4.0	96	19	42	24	48	0.95	- 0.03	0.45	0	3	25	1	4	s.	Agent So. Pac. Ry.
Williams.....	Coconino.....	6,750	13	57.0	- 3.4	83	19†	28	27	52	0.00	- 1.88	0.00	0	0	25	5	0		E. J. Nordyke.
Yarnell.....	Yavapai.....	4,700	13																	E. L. Bartholomew.
Yuma.....	Yuma.....	141	33	81.4	- 2.5	108	19	56	5	44	0.00	- 0.16	0.00	0	0	29	1	0	ne.	U. S. Weather Bureau.
Yuma (1).....	do.....	150	5	75.1		109	19	46	5†	54	T.		T.	0	0	29	1	0	sw.	E. L. Crane.
Nevada.																				
Caliente.....	Lincoln.....	4,407	2	57.9		88	1	28	23†	58	0.00		0.00	0	0	26	0	4	ne.	Salt Lake Route.
Logan.....	Clark.....	1,355	5	72.5		98	18	41	22	52	0.00		0.00	0	0	28	2	0	s.	O. 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 September, 1912. 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				
<i>Wyoming.</i>																																			
Battle Mountain	Snake																																		
Bigpinye	Green									.15	.20	.10	.08																						
Daniel	do.						T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.		
Eden	do.				T.	.33																													
Green River	do.				.49																														
Pinedale	do.				.01																														
Rambler	Snake																																		
Willow Creek Cabin	Green	T.			.25																														
<i>Colorado.</i>																																			
Ashcroft	Grand									.05	.22			.07																					
Breckenridge	do.																																		
Buford	White				.05						.08	.24																							
Cascade	San Juan				.06	T.					.11	.26																							
Cedaredge	Gunnison																																		
Chromo	San Juan																																		
Cochetopa	Gunnison				.08																														
Collbran	Grand					.03																													
Columbine	Yampa																																		
Columbine Ranch	Gunnison																																		
Corona II	Grand																																		
Cortez	San Juan				.46																														
Craig	Yampa																																		
Crawford (near)	Gunnison																																		
Crested Butte	do.																																		
De Beque	Grand																																		
Delta	Gunnison																																		
Dillon	Grand																																		
Durango	San Juan																																		
Eureka	do.	.01	.02																																
Fraser II	Grand																																		
Fruita	do.																																		
Glade Park	do.																																		
Gladstone	San Juan																																		
Glenw'd Spg's (n'r)	Grand																																		
Grand Junction	do.																																		
Grandlake	do.																																		
Grand Valley	do.																																		
Gunnison	Gunnison																																		
Hesperus (near)	La Plata																																		
Horsefly	Gunnison																																		
Ironton	do.																																		
Lake City	do.																																		
Lay	Yampa																																		
Maneros	San Juan																																		
Marble	Grand																																		
Marshall Pass	Gunnison																																		
Meeker (near)	White																																		
Montrose	Gunnison																																		
Nast	Grand																																		
Pagoda	Yampa																																		
Pagosa Springs	San Juan																																		
Palisades	Grand																																		
Paonia	Gunnison																																		
Pitkin	do.																																		
Pyramid	Yampa																																		
Rangely	White																																		
Redcliff	Grand																																		
Redvale	San Miguel																																		
Rico	Dolores																																		
Rifle	Grand																																		
River Portal	Gunnison																																		
Sapinero (near)	do.																																		
Shoshone	Grand																																		
Silverton (near)	San Juan																																		
Spruce Lodge	Grand																																		
Steamboat Springs	Yampa																																		
Tacoma	San Juan																																		
Telluride	San Miguel	.05																																	
Terminal Dam	San Juan																																		
U n e o m p a h g r e Plateau	Gunnison																																		
Yampa (near)	Yampa																																		
<i>Utah.</i>																																			
Aneth	San Juan																																		
Bluff	do.																																		
Boneta	Green																																		
Canaan	Colorado																																		
Castle Dale	Green																																		

TABLE 2.—Daily precipitation for September, 1912. 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>																																
Lewis Springs §§	San Pedro											.16																			.03	0.19
Lowell Observatory	L. Colorado				.03																										T.	0.03
McNeal	White										T.											T.									.74	1.09
Maricopa §§	Gila																															0.00
Mesa §§	Salt	.05	T.																													0.05
Mocasin	Colorado																															0.00
Mohawk Summit	Gila																															T.
Naco	San Pedro																															1.70
Natural Bridge	Verde																															.45
Oracle	San Pedro	.32	T.																													.02
Osborn	do																															.51
Paradise	Desert							T.																								.24
Parker	Colorado																															T.
Payson	Verde	1.07																														.04
Phoenix	Salt	.12	.02																													T.
Phoenix (1)	do	.04	.06																													T.
Phoenix (2)	do	T.	.08																													T.
Pinal Ranch	Gila	.71																														.02
Pinto	L. Colorado	.12	.14																													T.
Prescott	Hassayampa																															.30
Prescott Dry Farm	Verde																															.00
Quartzsite	Colorado																															.06
Redrock	Santa Cruz																															.03
Rice	Gila																															.05
Roosevelt	Salt																															.00
Sacaton	Gila																															.46
St. Johns	L. Colorado											.16																				T.
St. Michaels	do		T.																													.07
Salome	Colorado																															.10
San Simon	Gila																															.15
Seligman	Verde								T.																							T.
Sentinel	Gila																															.13
Silverbell	Santa Cruz																															.00
Snowflake	L. Colorado	.23																														.23
Springerville	do												.15																			.50
Supai	Colorado									.05																						.05
Tempe	Salt	.07	.05																													T.
Thatcher	Gila																															.33
Tombstone	San Pedro																															.37
Truxton	Colorado																															.01
Tuba	L. Colorado									.10	.03																					.03
Tucson	Santa Cruz																															.01
Tucson (1)	do																															.53
Tucson (2)	do																															.35
Vail	do																															.39
Walnut Grove	Hassayampa																															.45
Wickenburg	do																															.45
Willcox	Desert	.05																														.00
Williams	Colorado																															.00
Yarnell	Hassayampa																															.00
Yuma	Colorado																															T.
Yuma (1)	do																															T.
<i>Nevada.</i>																																
Caliente	Colorado																															.00
Logan	do																															.00

* 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 September, 1912. 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. §§		Bloom-field.		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.
1....	68	30	74	45	74	49	82	58	70	37	75	45	75	42	83	43	87	44	90	69	88	62	90	58	83	54	77	54	
2....	71	27	67	41	76	44	86	58	72	35	76	41	77	33	82	45	88	46	92	65	91	59	89	60	83	51	77	55	
3....	72	30	84	44	74	49	84	66	72	37	75	46	76	38	80	42	86	44	90	70	90	66	86	62	83	52	76	53	
4....	65	36	80	48	73	48	84	64	71	35	72	45	76	33	78	36	78	49	87	70	86	66	79	55	84	52	75	50	
5....	63	39	74	32	71	45	74	54	68	37	70	46	67	40	67	30	73	39	82	52	83	45	83	38	82	44	76	50	
6....	70	22	63	29	75	40	85	49	74	31	75	31	77	27	70	33	81	31	89	53	89	43	89	39	86	42	79	50	
7....	65	30	77	41	77	40	85	59	73	32	74	37	76	29	75	30	84	41	90	62	91	60	90	50	87	48	80	53	
8....	53	37	80	46	75	45	82	59	68	30	73	37	78	31	79	45	85	61	85	59	84	49	84	49	84	48	78	53	
9....	61	35	70	39	62	36	71	52	60	32	59	33	69	28	59	33	68	46	74	55	73	47	78	56	72	48	74	48	
10....	63	40	60	34	70	33	70	46	66	22	65	31	70	31	57	35	68	43	80	48	82	42	82	45	82	39	78	48	
11....	51	36	57	38	77	43	78	45	70	24	73	33	74	33	58	32	87	48	86	41	89	46	89	46	87	41	77	58	
12....	57	27	67	32	77	45	79	44	68	27	68	31	69	28	59	35	76	34	88	53	86	42	89	44	88	52	74	51	
13....	62	32	65	31	72	39	73	51	73	29	65	30	68	28	56	32	74	35	84	59	81	43	88	46	78	48	79	51	
14....	47	21	66	27	69	43	64	41	58	32	52	30	51	29	58	37	65	25	78	51	76	54	82	46	81	40	77	50	
15....	44	24	54	28	63	40	63	33	59	33	49	30	47	22	62	35	65	26	61	47	55	38	78	58	69	35	78	50	
16....	52	22	49	24	66	35	64	37	55	39	69	25	50	20	61	30	71	27	67	45	68	31	89	45	71	33	79	52	
17....	54	28	58	27	71	29	71	36	63	34	64	25	62	21	60	35	74	28	80	41	80	31	90	39	75	27	81	51	
18....	57	31	67	24	77	32	76	43	68	22	68	24	66	17	61	32	76	29	86	43	82	33	90	40	79	29	83	50	
19....	62	27	70	21	76	34	84	46	65	32	74	30	77	20	62	31	84	35	90	46	90	37	93	40	82	31	85	51	
20....	46	27	53	18	67	36	62	43	55	29	52	23	57	12	63	30	72	33	74	58	70	48	83	53	71	34	83	55	
21....	52	19	70	21	62	26	64	34	54	24	55	15	57	23	61	32	69	24	74	46	71	31	80	42	67	22	78	51	
22....	60	20	53	18	67	24	70	38	65	15	68	19	65	12	62	31	63	23	78	42	79	29	83	33	72	23	73	44	
23....	52	33	43	18	68	29	75	36	59	13	64	35	62	19	58	28	72	34	87	46	80	40	87	36	76	25	77	44	
24....	39	29	58	22	61	33	60	45	50	34	52	33	43	32	57	27	59	30	73	58	71	43	88	48	68	35	77	53	
25....	57	22	60	30	62	28	63	34	56	18	55	18	53	30	60	28	62	30	74	45	71	33	80	40	67	24	77	53	
26....	58	25	66	34	71	26	70	36	61	17	63	24	61	34	59	30	71	27	83	42	80	30	87	33	72	26	79	46	
27....	59	27	64	40	74	31	76	42	64	16	68	24	65	22	60	35	76	28	84	43	85	34	89	35	78	31	77	47	
28....	54	19	69	31	77	33	80	43	70	18	71	26	68	21	61	36	76	31	88	45	88	35	88	37	85	32	76	46	
29....	56	20	64	29	73	40	78	49	69	22	63	23	64	22	60	41	73	28	89	48	87	38	87	44	83	47	72	54	
30....	65	20	62	22	70	37	76	46	67	22	70	23	69	20	62	40	78	31	85	51	85	38	89	45	69	47	63	49	
Mns..	57.8	27.8	64.8	31.1	70.9	37.1	74.0	46.2	64.7	27.6	65.9	30.4	65.6	26.6	64.2	33.8	74.1 ^a	34.2 ^a	82.3	52.2	80.8	43.3	86.0	45.4	78.1	38.7	77.2	50.7	

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....	90	66	60	48	79	56	76	34	96	62	92	76	74	53	76	55	92	69	99	68	96	60
2....	92	63	68	54	81	54	74	34	97	64	93	72	74	59	76	50	91	81	98	69	94	59
3....	92	60	66	51	79	53	74	36	94	56	93	73	73	49	76	48	92	66	96	68	92	74
4....	89	56	66	49	77	49	72	36	87	47	87	66	70	51	75	50	91	59	89	61	86	51
5....	89	55	65	36	80	45	70	31	91	55	89	61	72	37	72	44	92	62	93	56	87	42
6....	97	54	70	35	87	46	74	36	93	55	95	63	77	40	77	40	96	58	96	60	93	47
7....	98	57	71	38	85	46	76	40	96	55	95	67	79	42	79	50	100	59	96	60	94	54
8....	90	53	64	36	80	45	72	38	95	55	90	62	71	39	73	55	94	58	96	66	86	56
9....	90	56	58	36	72	42	72	36	92	49	86	61	66	41	68	50	89	51	93	59	84	53
10....	94	54	66	28	85	39	74	36	97	52	90	50	74	35	73	31	94	53	97	61	88	50
11....	94	58	72	31	85	45	72	35	101	52	95	58	80	36	79	43	96	56	101	60	93	56
12....	95	56	74	30	86	49	70	36	103	55	98	61	82	38	76	37	98	65	103	63	95	54
13....	96	58	74	29	86	43	70	34	101	54	96	60	80	38	74	45	95	56	104	60	94	61
14....	95	48	73	37	84	42	70	34	102	60	98	63	79	43	74	38	96	55	102	61	94	54
15....	95	60	67	30	81	42	72	36	104	54	94	69	77	49	70	37	96	64	98	62	87	62
16....	95	53	73	30	81	48	74	38	100	54	97	66	80	39	71	34	96	56	102	66	91	52
17....	97	51	71	36	83	40	72	36	107	53	100	60	80	40	78	29	98	55	106	70	95	52
18....	99	51	75	31	86	40	72	36	108	53	102	65	85	38	80	32	100	55	107	66	98	50
19....	101	52	79	33	87	37	74	36	108	62	101	64	86	41	72	50	101	56	108	68	96	54
20....	99	53	75	36	83	42	73	34	108	60	102	68	76	37	63	27	99	60	108	69	95	66
21....	95	54	61	34	79	38	72	35	98	46	95	66	77	36	65	31	94	61	99	73	88	59
22....	95	52	71	20	81	34	70	36	101	51	93	60	79	30	72	22	97	54	101	68	91	41
23....	93	50	71	30	80	36	68	34	101	60	96	57	78	43	73	34	95	54	101	60	93	48
24....	93	56	71	42	82	40	68	36	101	55	92	64	79	33	69	53	92	58	97	65	87	48
25....	93	61	69	30	79	41	70	36	100	50	92	63	79	35	68	32	92	64	97	66	85	53
26....	92	56	71	26	82	42	72	38	101	45	92	56	79	34	63	22	93	57	101	61	94	47
27....	92	49	73	28	83	37	72	36	101	46	96	60	82	37	78	27	97	53	99	58	95	43
28....	92	48	71	30	83	42	74	36	99	47	96	60	81	36	73	25	96	55	101	59	94	48
29....	85	46	69	37	80	49	72	38	95	60	92	64	72	47	78	42	94	59</				