

TO  
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U. S. DEPARTMENT OF AGRICULTURE,  
WEATHER BUREAU.

ORIGINAL MONTHLY RECORD

OF

OBSERVATIONS

AT

TONOPAH, NEV.

For the Month of JUL 1918, ~~1917~~

\* Station is supplied with a barograph, thermograph, sunshine recorder, and self-recording rain gage.

† No. of dry thermometer in use, \_\_\_\_\_; No. of wet thermometer in use, \_\_\_\_\_; No. of maximum thermometer in use, \_\_\_\_\_; No. of minimum thermometer in use, \_\_\_\_\_

‡ Elevation above ground of the dry thermometer, \_\_\_\_\_ feet; rain gage, \_\_\_\_\_ feet; anemometer, \_\_\_\_\_ feet.

If the office has been moved during the month, give date \_\_\_\_\_; amount of change in height of barometer, \_\_\_\_\_ feet (higher or lower).

No. of extra barometer, 454; sum of corrections, -0.021; date and observation upon which use of station barometer commenced, July 9<sup>th</sup> 1906,  
8 p.m.; station elevation, 6090 feet; actual elevation, 6090 feet.

Location of office: Number \_\_\_\_\_ M<sup>s</sup> Guillan street, ~~room~~ Seven room building; first observation taken in present office, 8 p.m.  
July 9<sup>th</sup> 1906,

\* Cancel words that are not appropriate. † To be entered only in December unless changes are made during the year. Changes made during the year will be noted in the appropriate months. 8-134

ORIGINAL MONTHLY RECORD OF OBSERVATIONS at TONOPAH, NEV., for the Month of JUL 1918, 191

Number of Station barometer, 422; sum of corrections, -.027 inch.

OBSERVATIONS AT 8 A. M. 75TH MERIDIAN TIME, WHICH CORRESPONDS TO <u>5.00</u> A. M. <u>120</u> <sup>th</sup> MERIDIAN TIME, THE STANDARD OF TIME IN LOCAL USE; <u>5.11</u> A. M. LOCAL MEAN TIME.																							
DATE.	BAROMETER.				THERMOMETERS.					SELF-REG. THER'S.		WIND.			PRECIPITATION.		CLOUDS.			Initials of observer.	DATE.		
	Attached thermometer.	Observed reading.	Total correction.	Station. (Observed reading plus total cor.)	Reduced to sea-level.	Dry.	Wet.	Dew-point.	Relative humidity.	Vapor pressure.	Max.	Min.	Dir.	Velocity.	Max. during preceding 12 hours.	Dir.	Amt. at 8 a. m.	Amt.	Kind.			Dir. from.	STATE OF WEATHER.
	In.	In.	In.	In.	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b) †	MI.	MI.		In.						
1	66.	24.240	-.109	24.131	29.93	59.5	45.5	32	34	18.0	81.5	59.5	W	3			0	0	0	0	Clear	jes	1
2	66.	24.160	-.109	24.051	29.82	55.4	42.9	29	36	15.7	88.8	55.2	NW	4			0	0	0	0	Clear	jes	2
3	68.	24.126	-.113	24.013	29.78	59.0	46.0	33	38	18.7	83.5	59.0	W	8			0	5	a. st.	W	Pty cldy	jes	3
4	64.	24.235	-.105	24.130	29.94	52.5	43.5	34	50	19.5	83.0	52.0	W	4	33	NW	0	0	0	0	Clear	jes	4
5	70.	24.320	-.118	24.202	29.99	67.0	48.0	29	24	15.7	82.6	67.0	SE	8			0	0	0	0	Clear	jes	5
6	77.	24.335	-.133	24.202	30.05	73.5	52.5	35	24	2.03	89.0	71.5	SE	8			0	7	Cu.	W	Pty cldy	jes	6
7	74.	24.390	-.127	24.263	30.07	67.4	54.9	46	46	3.10	80.5	67.3	S	1			0	0	0	0	Clear	jes	7
8	75.	24.350	-.129	24.221	30.01	66.5	53.5	44	44	2.87	91.0	66.5	SW	3			0	1	Cu.	SW	Clear	jes	8
9	74.	24.330	-.127	24.203	29.98	68.5	56.0	48	48	3.34	86.0	64.8	SE	1			.02	5	Cu.	W	Pty cldy	jes	9
10	72.	24.375	-.123	24.252	30.08	61.4	45.9	30	30	1.64	85.2	61.3	W	6			0	0	0	0	Clear	jes	10
11	68.	24.335	-.113	24.222	30.02	61.1	46.6	32	34	1.80	87.0	60.5	W	6			0	0	0	0	Clear	jes	11
12	71.	24.225	-.120	24.105	29.86	66.5	46.5	25	20	1.30	85.5	64.5	SW	2			0	0	0	0	Clear	jes	12
13	73.	24.060	-.123	23.937	29.64	67.4	47.9	30	25	1.64	91.0	67.2	NW	3			0	0	0	0	Clear	jes	13
14	70.	24.120	-.117	24.003	29.75	61.3	44.8	29	29	1.57	88.0	60.6	W	2			0	0	0	0	Clear	jes	14
15	65.	24.280	-.107	24.173	29.99	54.5	38.0	14	18	0.77	83.0	54.5	NW	4			0	5	a. st.	W	Pty cldy	jes	15
16	70.	24.319	-.118	24.201	30.00	64.0	45.0	24	21	1.24	82.7	63.5	SE	9			0	4	Ci.	W	Pty cldy	jes	16
17	74.	24.328	-.127	24.201	29.99	63.0	48.0	34	34	1.95	86.5	63.0	SE	4			0	5	a. st.	W	Pty cldy	jes	17
18	68.	24.315	-.113	24.202	30.04	60.0	56.0	54	79	4.17	71.0	57.5	SW	1			.02	8	Cu.	W	Cloudy	jes	18
19	65.	24.340	-.107	24.233	30.09	58.5	53.5	50	74	3.60	66.5	58.5	W	2			0	7	Cu.	W	Pty cldy	jes	19
20	66.	24.335	-.109	24.226	30.10	58.5	53.5	50	74	3.60	63.5	57.0	SE	4			0	6	Cu.	W	Pty cldy	jes	20
21	66.	24.325	-.109	24.216	30.08	58.5	53.5	50	74	3.60	63.0	56.9	SE	6			0	6	Cu.	W	Pty cldy	jes	21
22	68.	24.280	-.113	24.167	30.00	58.0	54.0	51	79	3.73	71.0	57.5	SE	8			.01	8	Cu.	SE	Cloudy	jes	22
23	65.	24.240	-.107	24.133	29.96	58.0	54.0	51	79	3.73	65.5	57.0	SE	8			0	8	Cu.	SE	Cloudy	jes	23
24	62.	24.240	-.100	24.140	29.96	55.4	47.9	41	60	2.56	72.5	54.0	SE	10			0	8	Cu.	SE	Cloudy	jes	24
25	63.	24.200	-.102	24.098	29.92	52.5	45.5	40	60	2.47	71.0	52.0	NW	3			0	0	0	0	Clear	jes	25
26	64.	24.125	-.104	24.021	29.83	49.2	43.7	38	67	2.28	71.0	49.2	NW	7			0	3	Cu.	NW	Clear	jes	26
27	60.	24.130	-.096	24.034	29.86	50.5	44.5	39	64	2.37	65.5	50.5	W	5			0	2	Ci.	W	Pty cldy	jes	27
28	64.	24.208	-.104	24.104	29.92	54.0	49.0	45	72	2.98	69.0	53.0	W	1			.04	1	Cu.	0	Clear	jes	28
29	64.	24.205	-.104	24.101	29.92	54.0	49.0	45	72	2.98	71.5	54.0	W	1			0	1	Cu.	0	Clear	jes	29
30	65.	24.260	-.107	24.153	29.97	58.5	45.5	32	38	1.80	73.5	57.0	SE	8			0	0	0	0	Clear	jes	30
31	65.	24.340	-.109	24.233	30.06	61.5	48.5	37	40	2.19	78.6	61.5	SE	8			0	5	Cu.	SE	Pty cldy	jes	31
SUMS	752	071	(a)	748.571	928.61	1855	1503	1171	1487	7407	(a)	(a)	(a)	148	(a)	(a)	.09	97	(a)	(a)	(a)	(a)	(a)
MEANS		(a) 3.5	(a)	24.147	29.955	57.9	48.5	37.8	48.0	239	(a)	(a)	(a)	4.8	(a)	(a)	(a)	3.1	(a)	(a)	(a)	(a)	(a)

Reference letters in this form refer to paragraph 122, "Instructions for Preparing Meteorological Forms."

† By dial when self-register is out of order. †† † indicates trace of precipitation.

ORIGINAL MONTHLY RECORD OF OBSERVATIONS at **TONOPAH, NEV.**, for the Month of **JUL 1912**, 191

Number of Station barometer, **422**; sum of corrections, **-.027** inch.

OBSERVATIONS AT 5 P. M. 75TH MERIDIAN TIME, WHICH CORRESPONDS TO <u>5.00</u> P. M. <u>120</u> MERIDIAN TIME, THE STANDARD OF TIME IN LOCAL USE; <u>5.11</u> P. M. LOCAL MEAN TIME.																								
DATE.	BAROMETER.				THERMOMETERS.			Dew-point.	Relative humidity.	Vapor pressure.	SELF-REGISTER'S.		WIND.			PRECIPITATION.	CLOUDS.			FOG, MFD. TO MID. (local standard time).		Initials of observer.	DATE.	
	Attached thermometer.	Observed reading.	Total correction.	Station. (Observed reading plus total cor.)	Reduced to sea-level.	Dry.	Wet.				Max.	Min.	Dir.	Velocity.	Max. during preceding 12 hours.		Dir.	Amt. at 8 p. m.	Amt.	Kind.	Dir. from.			STATE OF WEATHER.
	In.	In.	In.	In.	(b)	(b)	(b)	(b)	(b)	In.	(b)	(b)	Dir.	Mi.	Mi.	In.	(b) †	(b) ††	(b) ††	(f)	(f)			
1	86.	24.120	-.152	23.968	29.71	88.0	57.0	35	15	203	88.5	59.5	W	11		0	1	Cu.	W	Clear	0	0	Jes	1
2	85.	24.090	-.150	23.940	29.69	82.6	52.6	26	13	136	85.0	55.4	W	12		0	5	a. st.	W	Ptly cldy	0	0	Jes	2
3	86.	24.100	-.152	23.948	29.70	82.5	56.5	39	22	237	85.5	58.7	NW	28	30	0	4	Cu.	NW	Ptly cldy	0	0	Jes	3
4	83.	24.247	-.146	24.101	29.90	82.6	56.1	35	19	203	83.3	52.5	W	8		0	0	0	0	Clear	0	0	Jes	4
5	90.	24.325	-.162	24.163	29.92	89.0	58.0	34	14	195	90.9	64.1	SE	8		0	0	0	0	Clear	0	0	Jes	5
6	90.	24.365	-.162	24.203	29.98	79.5	56.5	40	24	247	92.0	72.0	NW	12	25	0	10	Cu.	NW	Cloudy	0	0	Jes	6
7	91.	24.305	-.164	24.141	29.89	91.0	61.0	41	18	252	91.3	67.4	SE	8		0	3	Cu.	NW	Clear	0	0	Jes	7
8	90.	24.265	-.162	24.103	29.86	85.5	59.5	42	22	266	91.0	66.0	E	14		0	8	Cu.	W	Cloudy	0	0	Jes	8
9	87.	24.295	-.155	24.140	29.92	80.5	59.5	46	30	310	89.2	67.0	NW	12	28	0	7	Cu.	NW	Ptly cldy	0	0	Jes	9
10	87.	24.335	-.155	24.180	29.97	87.0	55.0	26	10	136	88.7	61.0	NW	19		0	0	0	0	Clear	0	0	Jes	10
11	86.	24.254	-.153	24.101	29.88	85.0	54.0	25	11	130	86.5	61.0	NW	12		0	0	0	0	Clear	0	0	Jes	11
12	91.	24.068	-.163	23.905	29.59	91.0	59.0	37	16	219	92.5	66.5	W	12		0	0	0	0	Clear	0	0	Jes	12
13	90.	24.013	-.160	23.853	29.54	87.5	55.5	30	13	164	88.8	67.0	W	16		0	3	Cu.	W	Clear	0	0	Jes	13
14	86.	24.155	-.152	24.003	29.76	83.0	55.0	31	15	172	85.2	60.0	SE	4		0	3	Ci.	W	Clear	0	0	Jes	14
15	85.	24.250	-.150	24.100	29.90	82.7	53.2	25	12	130	84.7	53.2	W	5		0	4	Ci.	W	Ptly cldy	0	0	Jes	15
16	86.	24.253	-.152	24.101	29.87	85.5	55.5	30	14	164	87.3	64.0	W	9		0	0	0	0	Clear	0	0	Jes	16
17	83.	24.300	-.146	24.154	29.96	71.0	54.0	41	34	252	85.2	61.3	E	18	25	0	8	Cu.	S	Cloudy	0	0	Jes	17
18	75.	24.340	-.129	24.211	30.06	66.5	56.5	50	56	360	66.5	60.0	NW	12		.02	5	Cu.	NW	Ptly cldy	0	0	Jes	18
19	76.	24.335	-.131	24.204	30.06	63.5	59.5	58	80	482	76.6	58.5	E	3		.02	8	Cu.	S	Cloudy	0	0	Jes	19
20	76.	24.332	-.131	24.201	30.06	63.0	57.0	54	71	417	77.5	57.5	SE	7	36	0	8	Cu.	SE	Cloudy	0	0	Jes	20
21	80.	24.270	-.139	24.131	29.95	71.0	61.0	56	59	448	76.5	58.0	SE	10		0	8	Cu.	SE	Cloudy	0	0	Jes	21
22	73.	24.225	-.124	24.101	29.92	65.4	57.4	52	63	387	65.4	57.0	SE	10		.02	7	Cu.	SE	Ptly cldy	0	0	Jes	22
23	75.	24.230	-.129	24.101	29.91	72.5	53.5	38	30	228	73.2	56.0	SE	10		0	5	Cu.	SE	Ptly cldy	0	0	Jes	23
24	76.	24.200	-.131	24.069	29.88	71.0	48.0	23	16	118	72.6	54.5	SE	11		0	3	Cu.	SE	Clear	0	0	Jes	24
25	76.	24.135	-.131	24.004	29.80	71.0	51.0	33	25	187	75.3	51.1	SE	12		0	4	Cu.	W	Ptly cldy	0	0	Jes	25
26	72.	24.126	-.122	24.004	29.82	65.5	52.5	42	44	266	67.5	48.5	NW	28	33	0	8	Cu.	NW	Cloudy	0	0	Jes	26
27	75.	24.170	-.129	24.041	29.86	69.0	57.0	49	50	347	73.5	50.5	N	7		.01	8	Cu.	W	Cloudy	0	0	Jes	27
28	75.	24.200	-.129	24.071	29.88	69.5	54.5	44	40	287	73.5	54.0	W	6	26	0	6	Cu.	W	Ptly cldy	0	0	Jes	28
29	77.	24.205	-.133	24.072	29.88	73.0	52.0	34	24	195	76.6	52.5	SE	7		0	1	Cu.	0	Clear	0	0	Jes	29
30	80.	24.280	-.140	24.140	29.95	78.6	51.1	23	13	118	79.5	55.1	SE	9		0	0	0	0	Clear	0	0	Jes	30
31	86.	24.358	-.153	24.205	30.01	83.0	55.0	31	15	172	85.0	61.5	SE	12		0	8	Cu.	SE	Cloudy	0	0	Jes	31
SUN	75.1196	(a)	(a)	746.659	926.08	2416.41739	1170	888	7436	(a)	(a)	(a)	352	(a)	(a)	.07	135	(a)	(a)	(a)	0	0	(a)	(a)
MEAN	(a)	44.7	(a)	24.086	29.874	77.9	55.6	37.7	286	240	(a)	(a)	(c) SE	11.4	(a)	(a)	(a)	4.4	(c) Cu.	(c) W	(a)	(a)	(a)	(a)

Observations are begun about 7.40 o'clock, 75th meridian time.

† By dial when self-register is out of order. †† T indicates trace of precipitation.

ORIGINAL MONTHLY RECORD OF OBSERVATIONS at TONOPAH, NEV., for the Month of JUL 1918, 191

Hourly Sunshine, Latitude 38° 04' N. (Local mean time is 11 min. \*faster ~~than~~ than † 120 th meridian time.)

DATE.	SUNSHINE DURING THE HOURS ENDING (standard of time in local use)—																		HOURS OF SUNSHINE.			CHARACTER OF—			Average daily cloudiness. (0-10)	DATE.
	A. M.									P. M.									Total.	Possible.	Percentage of possible.	Sunrise.	Sunset.	DAY. (Sunrise to sunset.)		
	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9								
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14.8	14.8	100	Clear	Clear	Clear	1	1
2	✓	✓	✓	✓	✓	✓	✓	0.9	0.8	1.0	1.0	1.0	0.3	1.0	1.0	✓	✓	13.8	14.8	93	Clear	Clear	Pty cldy	4	2	
3	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0	✓	✓	14.4	14.7	98	Clear	Clear	Pty cldy	4	3	
4	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.7	14.7	100	Clear	Clear	Clear	0	4	
5	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.7	14.7	100	Clear	Clear	Clear	0	5	
6	✓	✓	✓	✓	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.8	0	0	0	0	0	11.3	14.7	77	Clear	Clear	Pty cldy	6	6	
7	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	0.8	1.0	0.4	0	0	0	12.9	14.7	88	Clear	Clear	Clear	3	7	
8	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	0.5	0	0	0	0	0	11.0	14.7	75	Clear	Cloudy	Pty cldy	5	8	
9	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	0.6	0.2	0.4	1.0	✓	✓	12.9	14.7	88	Clear	Clear	Pty cldy	4	9	
10	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.7	14.7	100	Clear	Clear	Clear	0	10	
11	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.6	14.6	100	Clear	Clear	Clear	0	11	
12	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.6	14.6	100	Clear	Clear	Clear	0	12	
13	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.6	14.6	100	Clear	Clear	Clear	3	13	
14	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.6	14.6	100	Clear	Clear	Clear	3	14	
15	0	0	0	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0	0	10.0	14.6	68	Clear	Clear	Pty cldy	5	15	
16	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.5	14.5	100	Clear	Clear	Clear	3	16	
17	0	0	0	0	0.8	1.0	1.0	1.0	1.0	1.0	0	0.5	0	0	0	0	0	6.6	14.5	46	Clear	Cloudy	Pty cldy	6	17	
18	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.7	0	0	0	1.3	14.5	9	Cloudy	Cloudy	Cloudy	8	18	
19	0	0	0	0	0.6	0.9	1.0	0.4	0.8	0.7	0.3	0	0	0	0	0	0	4.7	14.5	32	Cloudy	Cloudy	Pty cldy	6	19	
20	0	0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.2	0	0	0	0	0	0	7.6	14.4	53	Cloudy	Cloudy	Pty cldy	6	20	
21	0	0	0	0.9	0.8	1.0	0.9	1.0	0.8	1.0	0.8	0	0	0	0	0	0	7.2	14.4	50	Cloudy	Cloudy	Pty cldy	6	21	
22	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	0	0	0	0	1.0	14.4	7	Cloudy	Cloudy	Cloudy	8	22	
23	0	0	0	0	0.6	1.0	1.0	1.0	0.8	0.8	1.0	0.9	1.0	1.0	0	0	0	9.1	14.4	63	Cloudy	Cloudy	Pty cldy	5	23	
24	0	0	0	0.5	1.0	1.0	0.7	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	11.0	14.4	76	Cloudy	Clear	Pty cldy	5	24	
25	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	0.9	1.0	0.5	✓	✓	0.8	13.7	14.3	96	Clear	Clear	Clear	3	25	
26	✓	✓	✓	✓	✓	✓	✓	0	0	0.2	0.2	0.3	0	0	0	0	0	6.9	14.3	48	Clear	Cloudy	Pty cldy	6	26	
27	✓	✓	✓	✓	✓	✓	✓	1.0	0.9	0.8	0.3	0.1	0	0	0	0	0	9.3	14.2	65	Clear	Cloudy	Pty cldy	5	27	
28	✓	✓	0	0.4	0.8	1.0	0.9	0.2	0.5	0	0.2	0.3	1.0	0.4	0	0.3	0	6.9	14.2	49	Clear	Clear	Pty cldy	6	28	
29	✓	✓	✓	✓	✓	✓	✓	0.9	0.9	0.8	0.9	1.0	1.0	1.0	1.0	✓	✓	13.7	14.2	96	Clear	Clear	Clear	3	29	
30	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	✓	✓	14.2	14.2	100	Clear	Clear	Clear	0	30	
31	✓	✓	✓	✓	✓	✓	✓	1.0	1.0	1.0	1.0	0.3	0	0	0	0	0	10.4	14.2	73	Clear	Cloudy	Pty cldy	5	31	
Sums.	8.7	22.0	21.5	24.4	27.3	28.8	28.4	26.2	26.3	26.3	23.6	21.0	19.9	17.7	16.0	3.7		34.7	449.8	2350	(a)	(a)	(a)	119	Sums.	
Percent- age of possible.	81	71	69	79	88	93	92	85	85	85	76	68	64	57	52	73		76	(a)	(a)	(a)	(a)	(a)	3.8	Percent- age of possible.	

Observed sunshine. Record defective. \*Cancel the word that is not appropriate. † Enter the standard of time in local use.

Prepared by

ORIGINAL MONTHLY RECORD OF OBSERVATIONS at TONOPAH, NEV., for the Month of July, 1913

Hourly Thermograph Readings. (Standard of time in local use, 120° meridian.)

DATE.	A. M.												P. M.												SUM.	MEAN.	DATE.
	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mid't.			
1	64	64	61	60	60	60	64	65	70	75	80	81	84	86	88	88	88	89	85	80	73	70	66	65	1766	73.6	1
2	63	61	59	58	55	56	58	62	66	71	74	76	78	82	83	85	83	84	83	79	71	69	67	66	1689	70.4	2
3	64	63	61	61	59	59	61	62	67	71	76	77	80	83	86	84	82	82	78	76	66	63	61	60	1682	70.1	3
4	57	55	53	53	52	52	54	57	64	67	71	74	77	79	82	83	83	82	82	77	76	76	76	75	1657	69.0	4
5	67	70	71	68	67	64	76	79	82	84	86	87	90	91	90	91	89	89	87	85	82	81	81	80	1937	80.7	5
6	78	74	74	73	74	72	78	84	81	85	86	88	90	90	92	88	80	80	80	80	75	75	74	73	1924	80.2	6
7	70	71	69	69	67	67	74	76	78	80	84	86	86	89	91	89	91	90	85	84	74	75	76	72	1893	78.9	7
8	72	69	70	69	66	66	68	71	75	77	81	85	87	87	91	87	86	82	76	77	65	70	67	67	1811	75.5	8
9	70	69	66	65	68	67	75	76	78	80	83	85	89	89	87	80	80	85	82	78	77	73	70	69	1841	76.7	9
10	67	65	63	63	61	61	66	69	71	75	80	83	85	86	89	88	87	86	83	79	74	73	70	70	1794	74.8	10
11	67	65	64	60	61	61	67	69	72	74	77	81	83	84	86	86	85	85	83	77	75	74	72	70	1778	74.1	11
12	67	69	68	64	66	66	72	71	75	80	84	87	88	89	92	91	91	91	88	83	77	74	72	70	1875	78.1	12
13	70	68	68	67	69	67	73	76	77	79	82	84	86	87	89	88	88	85	79	75	71	69	66	64	1825	76.0	13
14	62	61	62	62	61	61	60	65	70	69	75	77	79	80	83	85	83	82	79	76	74	72	67	66	1711	71.3	14
15	64	61	57	56	54	53	54	55	61	66	69	75	80	83	83	85	83	81	78	77	76	76	75	74	1676	69.8	15
16	68	66	64	65	64	64	66	69	73	76	78	81	83	85	87	86	86	86	83	81	79	78	75	73	1816	75.7	16
17	71	71	68	67	63	61	63	65	70	75	79	80	85	83	75	74	71	70	69	69	69	68	65	64	1695	70.6	17
18	59	60	60	59	60	60	61	62	63	63	63	62	60	60	64	65	66	66	63	61	60	59	58	58	1472	61.3	18
19	57	57	56	56	58	58	60	60	62	70	73	74	77	73	67	62	64	64	61	59	58	58	58	58	1500	62.5	19
20	58	58	57	58	58	58	62	65	67	70	74	74	78	75	62	60	63	63	61	60	60	58	58	59	1516	63.2	20
21	59	59	59	57	58	58	58	62	66	68	71	70	72	71	76	73	71	70	68	67	67	66	65	65	1576	65.7	21
22	62	59	59	59	58	57	59	59	60	62	62	62	61	61	58	60	65	65	65	66	64	61	60	59	1463	61.0	22
23	58	58	58	57	58	57	57	56	56	58	65	68	70	71	73	72	72	71	69	67	64	60	60	60	1515	63.1	23
24	57	54	55	55	55	56	58	62	66	68	70	71	73	72	71	71	71	70	69	67	66	65	64	57	1543	64.3	24
25	54	53	52	53	52	51	57	61	65	72	74	74	75	74	73	73	71	70	68	65	64	62	57	55	1525	63.5	25
26	53	52	50	50	49	48	51	53	58	62	68	64	62	64	64	67	66	61	59	60	60	61	58	57	1397	58.2	26
27	56	54	52	52	50	51	52	55	60	63	67	69	72	74	71	71	69	66	61	60	58	54	54	54	1445	60.2	27
28	53	53	53	53	54	54	56	60	65	64	67	69	74	64	66	68	70	72	64	62	63	64	63	61	1492	62.2	28
29	60	58	58	55	54	52	58	63	66	67	71	71	74	74	77	74	73	74	72	70	68	68	67	65	1589	66.2	29
30	61	59	59	57	58	58	58	66	68	71	73	74	77	79	79	80	79	78	76	73	71	71	71	70	1663	69.3	30
31	64	63	62	63	62	62	65	71	74	76	78	80	82	83	85	85	83	82	80	79	77	76	76	74	1782	74.2	31
Sum.	1952	1919	1888	1864	1849	1837	1938	2026	2126	2218	2321	2369	2437	2448	2460	2439	2419	2401	2316	2249	2154	2119	2069	2030	51848	(a)	Sum.
Mean.	63.0	61.9	60.9	60.1	59.6	59.3	62.5	65.4	68.6	71.5	74.9	76.4	78.6	79.0	79.4	78.7	78.0	77.5	74.7	72.5	69.5	68.4	66.7	65.5	69.7	(a)	Mean.



ORIGINAL MONTHLY RECORD OF OBSERVATIONS at TOMOPAH, NEB., for the Month of MAY, 1913,  
 Hourly Wind Velocity. Maximum Velocity for the hour in red when it exceeds 30 miles per hour. (Standard of time in local use, 120 meridian.)

DATE.	A. M.												P. M.												24 HOURS.				DATE.
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12 Noon.	Noon to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12 Mid'l.	Total.	Max. Vel. (b)	Dir.	Ex. Vel.	
1	5	7	4	5	3	4	4	4	4	3	5	9	8	8	9	11	12	14	18	12	11	14	11	10	195	23	W	23	1
2	12	11	9	9	6	5	7	5	6	7	8	6	4	5	6	8	10	14	14	15	12	15	8	13	215	19	W	20	2
3	11	9	9	8	8	5	5	5	4	5	6	7	11	11	13	24	27	<sup>33</sup> 28	23	21	18	18	20	15	311	33	NW	33	3
4	8	9	8	6	4	4	5	6	4	6	5	5	5	6	5	5	6	5	4	1	0	1	0	0	108	12	W	12	4
5	4	6	4	4	8	6	7	7	6	7	7	10	7	7	10	9	10	8	7	7	11	11	10	6	182	15	SE	15	5
6	7	5	6	5	5	2	3	3	4	5	7	7	6	6	12	17	20	6	10	15	6	7	6	9	179	25	NW	29	6
7	9	7	2	1	1	0	1	3	4	4	5	7	8	10	10	7	6	8	5	10	14	6	3	3	134	19	NW	20	7
8	4	2	4	2	4	4	4	5	5	5	5	5	7	9	8	8	9	15	9	11	12	14	12	8	171	23	NW	29	8
9	3	1	3	2	1	3	2	3	4	6	6	7	9	8	10	9	18	4	5	7	7	10	13	12	153	28	W	30	9
10	10	10	10	7	6	5	7	10	12	12	14	13	15	17	18	19	19	18	17	13	12	14	8	9	295	23	NW	24	10
11	9	9	12	13	8	7	8	12	16	16	17	14	13	12	13	12	12	12	14	13	7	4	5	5	263	19	NW	20	11
12	3	3	1	4	3	3	4	5	4	4	5	4	6	8	9	14	8	9	18	14	12	14	15	13	183	22	W	22	12
13	14	12	9	8	4	1	3	4	4	6	6	12	9	14	13	10	12	20	21	19	15	11	10	10	247	24	NW	24	13
14	8	7	4	4	1	5	2	5	6	5	10	10	9	9	8	9	8	10	9	13	6	6	6	7	167	18	SE	18	14
15	7	6	8	5	4	3	5	8	8	8	6	4	7	7	5	7	7	10	1	6	8	9	9	8	156	12	NW	12	15
16	7	7	9	9	8	9	10	9	8	8	6	6	7	9	9	7	8	7	4	6	8	7	2	3	173	13	SE	13	16
17	3	7	14	8	4	5	10	10	11	8	7	7	7	6	15	22	20	16	15	14	14	14	15	15	267	25	SE	28	17
18	10	7	4	1	1	1	1	4	4	4	2	3	3	5	7	9	11	11	9	9	6	4	5	4	125	21	E	21	18
19	4	4	2	2	2	2	1	2	5	4	4	4	6	11	19	9	2	9	8	6	3	0	1	1	111	24	SE	29	19
20	2	1	3	5	5	4	6	7	9	9	9	8	9	13	<sup>36</sup> 29	17	9	5	3	5	5	4	7	7	181	36	SE	40	20
21	9	8	10	8	7	8	9	8	10	12	13	10	8	9	8	9	7	8	6	8	7	8	10	9	209	16	SE	16	21
22	9	8	7	6	5	9	8	9	9	10	10	9	12	11	11	12	10	9	10	10	10	9	9	8	220	15	SE	15	22
23	7	8	8	9	10	9	10	10	14	14	12	12	10	10	11	12	9	9	8	11	15	12	13	7	250	19	SE	19	23
24	5	4	5	10	9	8	10	10	12	11	12	12	13	16	16	14	13	9	9	6	6	7	6	7	230	22	SE	24	24
25	6	3	3	2	2	5	6	7	9	10	11	12	12	11	16	12	11	7	8	4	2	5	9	7	180	22	SE	22	25
26	6	5	6	8	8	8	13	13	13	13	11	12	6	13	14	17	<sup>35</sup> 26	19	12	4	10	9	10	3	259	33	NW	33	26
27	3	5	5	5	4	4	6	8	6	8	7	8	7	7	6	7	9	10	14	10	7	7	6	4	163	18	NW	19	27
28	4	2	1	1	1	0	2	1	2	6	5	3	16	13	6	6	5	5	13	11	2	4	6	2	117	26	SE	29	28
29	2	3	1	1	1	3	3	2	6	7	7	9	9	9	8	11	8	7	7	6	7	8	6	4	135	15	SE	15	29
30	6	8	5	6	7	5	7	8	7	8	11	11	10	11	9	7	9	8	7	6	6	8	9	6	185	15	SE	15	30
31	6	4	7	9	8	7	6	10	12	12	14	15	14	11	14	12	10	9	6	8	8	12	8	10	232	19	SE	20	31
Sums.	203	188	183	176	148	144	175	203	228	243	253	261	273	302	347	352	351	329	314	301	267	272	258	225	5996	(a)	(a)	(a)	Sums.
Means.	6.5	6.1	5.9	5.7	4.8	4.6	5.6	6.5	7.4	7.8	8.2	8.4	8.8	9.7	11.2	11.4	11.3	10.6	10.1	9.7	8.6	8.8	8.3	7.3	193.4	(a)	(a)	(a)	Means.

ORIGINAL MONTHLY RECORD OF OBSERVATIONS at TONOPAH, NEV., for the Month of JUL - 1913, 191

DATE.	TEMPERATURE.								PRECIPITATION.												DATE.					
	Maximum. (b)	Minimum. (b)	Range. (b)	Change. (b)	Mean. (Max. and Min.) (b)	Normal.	Departure.	Total excess or deficiency since 1st of month.	Character. †	Beginning.	Ending.	Character. †	Beginning.	Ending.	Character. †	Beginning.	Ending.	Total (Mid. to mid.) (b) ††	Normal.	Departure.		Total excess or deficiency since 1st of month.	Hail and sleet un-melted. Sp. m. to 5 p. m. * ††	Snow un-melted. Sp. m. to 5 p. m. * ††	Hail, sleet, and snow on ground at 5 p. m. * ††	Amount of precipitation from melted snow (mid. to mid.) In.
Tuesday 1	89	60	29	4	74	64	+10	+10										In.	.01	-.01	-2.75	In.	In.	In.	In.	1
2	85	55	30	4	70	64	+6	+16										0	.01	-.01	-.02	0	0	0	0	2
3	86	59	27	2	72	64	+8	+24										0	.01	-.01	-.03	0	0	0	0	3
4	83	52	31	4	68	65	+3	+27										0	.01	-.01	-.04	0	0	0	0	4
5	91	64	27	10	78	65	+13	+40										0	.01	-.01	-.05	0	0	0	0	5
6	92	72	20	4	82	65	+17	+57										0	.01	-.01	-.06	0	0	0	0	6
7	91	67	24	3	79	65	+14	+71										0	.01	-.01	-.07	0	0	0	0	7
8	91	65	26	1	78	65	+13	+84	R	5.45p.	7.30p.							.02	.01	+0.01	-.06	0	0	0	0	8
9	89	65	24	1	77	66	+11	+95										0	.01	-.01	-.07	0	0	0	0	9
10	89	61	28	2	75	66	+9	+104										0	.01	-.01	-.08	0	0	0	0	10
11	86	60	26	2	73	66	+7	+111										0	.01	-.01	-.09	0	0	0	0	11
12	92	64	28	5	78	66	+12	+123										0	.01	-.01	-.10	0	0	0	0	12
13	89	64	25	2	76	66	+10	+133										0	.01	-.01	-.11	0	0	0	0	13
14	85	60	25	4	72	66	+6	+139										0	.01	-.01	-.12	0	0	0	0	14
15	85	53	32	3	69	67	+2	+141										0	.01	-.01	-.13	0	0	0	0	15
16	87	64	23	7	76	67	+9	+150										0	.01	-.01	-.14	0	0	0	0	16
17	85	61	24	3	73	67	+6	+156	R	11.30p.								∏	.01	-.01	-.15	0	0	0	0	17
18	66	58	8	11	62	67	-5	+151	R		12.45a.	R	10.15a.	11.50a.				.04	.01	+0.03	-.12	0	0	0	0	18
19	77	56	21	4	66	67	-1	+150	R	2.45p.	4.40p.							.02	.01	+0.01	-.11	0	0	0	0	19
20	78	57	21	2	68	67	+1	+151	R	3.10p.	4.25p.							∏	.01	-.01	-.12	0	0	0	0	20
21	76	57	19	2	66	67	-1	+150										0	.01	-.01	-.13	0	0	0	0	21
22	66	57	9	4	62	67	-5	+145	R	12.05a.	1.20a.	R	11.30a.	1.15p.				.03	.01	+0.02	-.11	0	0	0	0	22
23	73	56	17	2	64	68	-4	+141										0	.01	-.01	-.12	0	0	0	0	23
24	73	54	19	0	64	68	-4	+137										0	.01	-.01	-.13	0	0	0	0	24
25	75	51	24	1	63	68	-5	+132										0	.01	-.01	-.14	0	0	0	0	25
26	68	48	20	5	58	68	-10	+122	R	11.10a.	12.15p.							∏	.01	-.01	-.15	0	0	0	0	26
27	74	50	24	4	62	68	-6	+116	R	4.15p.	4.50p.	R	8.30p.	10.30p.				.05	.01	+0.04	-.11	0	0	0	0	27
28	74	53	21	2	64	68	-4	+112										0	.01	-.01	-.12	0	0	0	0	28
29	77	52	25	0	64	68	-4	+108										0	.01	-.01	-.13	0	0	0	0	29
30	80	55	25	4	68	68	0	+108										0	.01	-.01	-.14	0	0	0	0	30
31	85	62	23	6	74	68	+6	+114										0	.01	-.01	-.15	0	0	0	0	31
S.	2537	1813	725	108	2175	2061	Total excess or deficiency since January 1, +599	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	.16	.31	Total excess or deficiency since January 1, -2.90	0	0	(a)	(a)	(a)	
M.	81.8	58.5	23.4	3.5	70.2	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	

All data are in the standard of time in local use. † Use the following abbreviations: R—rain, S<sup>d</sup>—dry snow, S<sup>m</sup>—moist snow, H—hail, Sl—sleet. †† † indicates trace of precipitation. †† Enter the local standard time of observation. \* Inches and tenths.



SUMMARY FOR THE MONTH OF July 1918

Data for pressure, dry and wet thermometers, dew-point, humidity, vapor pressure, and mean cloudiness are in 75th meridian time. All other data are in the standard of time in local use.

PRESSURE.															
(Correction to reduce to a 24-hour mean <i>alt.</i> )															
STATION.							REDUCED.								
MEAN.			Highest. (h)	Date.	Lowest. (h)	Date.	Absolute range.	MEAN.			Highest. (h)	Date.	Lowest. (h)	Date.	Absolute range.
8 a. m.	8 p. m.	Monthly. (g)						8 a. m.	8 p. m.	Monthly. (g)					
24.147	24.086	24.116	24.263	7	23.853	13	410	29.955	29.874	29.914	30.10	20	29.54	13	56
Corrected mean-----			24.130			Corrected mean-----			29.928			3,500-ft-----		10,000-ft-----	

TEMPERATURE.																				
MEAN.																				
Dry.			Wet.			MAX.	MIN.	Monthly. (g)	Sea-level. (g)	3,500-ft. (g)	10,000-ft. (g)	High- est. (i)	Date. (i)	Lowest. (i)	Date. (i)	Absolute range. (i)	Greatest daily range. (i)	Date. (i)	Least daily range. (i)	Date. (i)
8 a. m.	8 p. m.	(8+8)÷2 (g)	8 a. m.	8 p. m.	Monthly. (g)															
59.9	77.9	68.9	48.5	55.6	52.0	81.8	58.5	70.2				92	12	48	26	44	32	15	8	18
DEW-POINT.			RELATIVE HUMIDITY.			VAPOR PRESSURE.			NUMBER OF DAYS WITH--(j)											
8 a. m.	8 p. m.	Monthly. (g)	8 a. m.	8 p. m.	Monthly. (g)	8 a. m.	8 p. m.	Monthly. (g)	MAXIMUM.		MINIMUM.									
37.8	37.7	37.8	48.0	28.6	38.3	239	240	240	32° or below.	90° or above.	32° or below.	Zero or below.								
						0	5	0	0											

WIND.														
Total movement (mid. to mid.).	Average hourly velocity.	Prevailing direction. (p)	Maximum velocity. (r)	Direction. (r)	Date. (r)	NUMBER OF TIMES WIND OBSERVED FROM THE--								
						N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.
5996	8.1	SE	36	SE	20	1	0	3	24	1	3	18	12	0

WEATHER.										
MEAN CLOUDINESS.			SUNSHINE. Percentage of possible.	NUMBER OF DAYS.			NUMBER OF DAYS WITH PRECIPITATION (Mid. to Mid.).			
8 a. m.	8 p. m.	Monthly. (t)		Clear.	Partly cloudy.	Cloudy.	Clear. (u)	Partly cloudy. (u)	Cloudy. (u)	
3.1	4.4	3.8	76	13	16	2	0	3	2	

MISCELLANEOUS PHENOMENA.														
DATES OF--(MIDNIGHT TO MIDNIGHT).														
FROSTS.			THUNDERSTORMS. (r)	WINDS. (40 miles or over.)	SOLAR HALOS.	LUNAR HALOS.	Fog.		HAZE.		SMOKE.		HAUL.	AURORA.
Light.	Heavy.	Killing.					Light.	Dense.	Light.	Dense.	Light.	Dense.		
None	None	None	6.8.9.17.19.20.26	None	None	None	None	None	None	None	None	None	None	None

PRECIPITATION (in inches and hundredths). (m)																		
TOTAL AMOUNT.	GREATEST AMOUNT IN 24 CONSECUTIVE HOURS.		EXCESSIVE.						NUMBER OF DAYS WITH--(Mid. to Mid.).						SNOW.			
	Am't.	Date. (k)	2.50 INCHES IN 24 HOURS. (l) *			1 INCH PER HOUR. (l)			Trace.	.01 or more.	.04 or more.	.25 or more.	1.00 or more.	Total.	SNOW.		TOTAL DEPTH. (u)	AVERAGE DEPTH AT END OF MONTH.
			Am't.	Duration. h. m.	Date. (k)	Am't.	Duration. h. m.	Date. (k)							Trace or more.	.01 or more melted.		
.16	.05	27	None	-	-	None	-	-	3	5	2	0	0	8	0	0	0	0

(cc) Maximum precipitation in 5 minutes .02, date 22; 10 minutes .02, date 18.22.27; 15 minutes .07, date 18.22.27; 30 minutes .02, date 8.18.22.27; 1 hour .04, date 27; 2 hours .04, date 27

EXCESSIVE.																		
DATE.	TOTAL DURATION.		Total am't of precipitation.	EXCESSIVE RATE.		Am't before excessive began.	ACCUMULATED DEPTHS DURING EXCESSIVE RATE, FOR CONSECUTIVE PERIODS OF TIME INDICATED BELOW.											
	From--	To--		Began--	Ended--		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.
						None												

\*The duration is the time precipitation was actually recorded.

Prepared by J. Piercy, Observer, Weather Bureau.

