

Cupboard 28
Shelf 5
No. 32
1 book

TRANSCRIPTS
FROM
FIELD METEOROLOGICAL RECORD

Book No. *45*, 1877.

METEOROLOGICAL RECORDS.

Party No. *2*, *California* Section.

From Camp at *Carson Nev.* May 29th, 1877.

To Camp at *Carson Nev.* Nov. 28th, 1877.

Comparison of Barometers at Carson
from May 29th to June 7th

Lieut. W. M. Macomb in charge of party.

Engineer Department, U. S. Army.

U. S. Geographical Surveys West of 100th Meridian.

July 25. 56" fast.

METEOROLOGICAL RECORDS.

FORM II.—BOOK No. 45, 1877.

U. S. ENGINEER OFFICE.

GEOGRAPHICAL SURVEYS

West of the 100th Meridian.

CORPS OF ENGINEERS,

IN CHARGE.

Party No. 2 Section No. California

From (Camp) Carson City, Nevada,

To (Camp) Carson City, Nevada.

Dates: from May 29, 1877, to Nov. 28th, 1877.

F. T. VAIL

Meteorological Observer.

REMARKS.

For errors of barometers see page 45

Washington D.C. Mar 22, 1878.

I CERTIFY that I have compared this transcript with the original records of observations and find it correct.

M. M. Macomb.

2d Lt. U. S. Army

Executive Officer.

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 106

[TRANSCRIPT FROM FORM I.]
IN THE FIELD, 187

, Computer.

DATE	HOUR	STANDARD CIST. BAROMETER No. <u>2178</u>					CISTERN BAROMETER No. <u>2111</u>					ANEROID No.			ANEROID No.		
		Att'd Ther. Error ±0.5	Reading	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction	Barometer reduced	Att'd Ther.	Error	Reading	Error	Att'd Ther.	Reading	Error	Att'd Ther.	Reading	Error
<u>Comparison of Barometers at Carson City, Nev. (Continued)</u>																	
June 5	7 a.m.	60.0	.025	.328	.179	.2149											
	8 "	62.0	.034	.083	.241												
	9 "	63.0	.022	.086	.236												
	10 "	66.0	.028	.093	.235												
	11 "	70.0	.000	.102	.198												
	12 "	72.0	.288	.106	.182												
	1 P.M.	70.0	.282	.102	.186												
	2 "	71.5	.288	.105	.183												
	3 "	76.0	.280	.115	.165												
	4 "	75.0	.265	.113	.152												
	5 "	72.8	.252	.106	.146												
	6 "	68.5	.253	.096	.157												
	7 "	63.2	.254	.085	.167												
	8 "	61.2	.294	.082	.212												
	9 "	58.0	.286	.074	.212												
	10 "	57.5	.306	.073	.223												
	11 "	52.0	.308	.061	.247												
	12 "	51.0	.305	.058	.247												
June 6	1 a.m.	52.0	.307	.061	.246												
	2 "	49.0	.304	.052	.250												
	3 "	49.0	.280	.052	.226												
	4 "	50.0	.266	.056	.210												
	5 "	49.5	.268	.055	.213												
	6 "	53.5	.272	.064	.208												
	7 "	63.5	.278	.087	.191												
	8 "	68.0	.280	.097	.183												
	9 "	71.0	.274	.103	.171												
	10 "	71.2	.266	.104	.162												
	11 "	72.5	.270	.107	.163												

Tube Re-filled, broken en route to field.

ANEROID No.	THERMOMETERS.	FORCE OF VAPOR.	REL. HUMIDITY.	CLOUDS.	RAIN OR SNOW.			WIND.		REMARKS.
					Began.	Ended.	Inches.	Direction.	Force.	
14	18									
<u>Hourly Series</u>										
	19	20	21	22	23	24	25	26	27	28
	58.0	47.0								Vail
	62.0	52.0								"
	63.5	54.0								"
	66.0	55.0								"
	72.0	57.0								"
	71.5	56.5								"
	75.0	58.5								Dunn
	77.0	51.2								"
	76.3	69.0								"
	73.8	56.2								"
	71.5	53.8								"
	68.0	53.0								"
	63.0	48.6								"
	60.0	47.2								Callahan
	59.0	47.8								"
	58.0	48.0								Conkling
	53.8	45.8								"
	52.7	44.7								Dunn
	52.8	44.2								"
	52.4	43.6								"
	51.8	41.2								Brown
	51.0	47.0								"
	50.2	45.5								"
	53.7	46.9								Cowles
	60.1	48.4								"
	69.0	52.0								Vail
	71.0	53.0								Dunn
	71.2	52.5								Vail
	72.5	58.0								Dunn

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 106

Lewis Hasson, Computer.

DATE	HOUR	STANDARD CIST. BAROMETER No. <u>2161</u>					CISTERN BAROMETER No. <u>2207</u>					ANEROID No. <u>10</u>			ANEROID No. <u>2095</u>			THERMOMETERS.					CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.									
		Att'd Ther. Error	Reading	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error	Reading	Error	Correct for Error	Att'd Ther. Reading	Error	Att'd Ther. Reading	Error	Att'd Ther. Reading	Error	No. Maximum	No. Minimum	No. Dry bulb.	No. Wet bulb.	Difference.	Force of Vapor.	Rel. Humidity.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.		Direction.	Force.							
<u>Camp No. 1 One mile east of Genoa Nev. on Carson River</u>																																								
June 9 th	9 P.M.	66.5	25.896	-126	25.570	000	25.570	65.5	25.636	25.644	61.2	25.562	61.5	25.560					63.0	51.0	11.9		447																Max. & min not working	
"	10	7 A.M.	62.0	25.736	-116	620		63.0	25.694	702	58.0	25.630	57.0	25.650					66.0	51.0	14.9		447															Latitude 39 00		
"	"	9 P.M.	72.0	25.678	-139	539		71.5	25.640	648	71.0	25.550	71.0	25.550					69.5	54.5	14.9		389														a.s. 57 D			
"	"	2 "	86.0	25.710	-170	520		86.5	25.652	660	82.0	25.560	86.0	25.570					70.8	87.0	60.0	26.9	351	216																
"	11	7 A.M.	64.0	25.704	-120	584	037	64.0	25.644	652	66.0	25.580	64.0	25.630					67.5	53.5	13.9		409																	
<u>Camp No. 2, Near Woodford, West branch of Carson River, Cal.</u>																																								
June 11	9 P.M.	66.5	24.700	-382	4548	000	4577	66.0	24.638	24.646	66.5	24.590	66.0	24.550					65.5	43.0	22.4		215																	
"	* 12	7 A.M.			-58	543	037	67.5	24.620	628	68.0	24.610	68.0	24.600					67.0	52.0	14.9		380																W 15	
<u>Camp No. 3, T.M. Stevens Ranch, Hope Valley, Alpine Co., Cal.</u>																																								
Refrigid																																								
* June 12	9 P.M.	56.0	23.180	-148	23035	000	23.082	56.0	23.122	-050	23.130	58.0	23.000	62.0	23.075					36.0	54.0	43.0	10.9	442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
"	13	7 A.M.	61.5	23.116	-159	22954	037	60.5	23.058	-050	60.6	58.0	22.930	57.5	23.000					59.0	49.0	9.9		504																
"	"	9 A.M.	71.0	136	-179	957	025	932																																
"	"	10 "	73.5	142	-184	958	020	938																																
"	"	11 "	77.0	144	-191	953	012	941																																
"	"	12 M.	77.8	146	-193	953	000	953																																
"	"	1 P.M.	72.0	128	-181	947	1016	963																																
"	"	2 "	74.5	126	-186	940	1030	972																																
"	"	3 "	76.0	120	-189	931	1036	967																																
"	"	4 "	75.5	120	-188	931	1013	972																																
"	"	5 "	74.0	112	-185	927	1025	972																																
"	"	6 "	63.5	140	-163	947	1020	23017																																
"	"	9 "	52.0	072	-140	932	000	22933	52.5	23.010	-054	23.018	50.0	22.850	58.0	22.835					76.0	50.5	40.0	10.4	440															
"	14	7 A.M.	56.0	058	-148	910	037	873	58.0	23.004	-046	012	58.0	22.840	56.0	22.800					31.0	58.0	49.0	9.0	531															
"	"	10 "	67.5	080	-172	908	020	888																																
"	"	11 "	70.5	088	-178	919	012	898																																

Continued on p. 10

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and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

IN THE FIELD, 187

Book No. 106

Sumner Hasson, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2207</u>					CISTERN BAROMETER No. <u>2161</u>					ANEROID No. <u>2095</u>			ANEROID No. <u>10</u>		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	
<u>Observations Sec. Triang. Station No. I Stevens Peak.</u>																	
June 13	10 a.m.	60.5	20.941	-057	20.884	-020	20.864				65.0	20.775					
	11. "	62.0	.940	-055	.885	-012	.873				60.0	.800					
	12. "	63.5	.942	-058	.884	000	.884				63.0	.775					
	1 P.M.	63.0	.954	-057	.897	+016	.913				64.0	.775					
	2. "	63.0	.944	-057	.887	+032	.919				63.0	.760					
	3. "	64.0	.938	-057	.879	+036	.915				75.0	.725					
	4. "	62.0	.934	-055	.889	+042	.931				63.0	.720					
	5. "	59.0	.922	-049	.873	+045	.918				59.0	.720					
<u>20901</u>																	
<u>Observations Sec. Triang. Station No. 2 Cary's Peak.</u>																	
June 14	11 a.m.	65.0	20.912	-060	20.852	-012	20.840				66.0	20.675					
	12. M.	64.0	.926	-059	.867	000	.867				64.5	.700					
	1 P.M.	65.5	.925	-061	.864	+016	.880				64.0	.680					
	2. "	63.0	.908	-057	.851	+032	.883				61.0	.700					
	3. "	62.0	.910	-055	.855	+036	.891				61.0	.650					
	4. "	61.0	.908	-053	.855	+042	.897				61.0	.650					
<u>20876</u>																	
<u>Observations on Top. Station No. 2 near Stevens Ranch</u>																	
June 16	8 a.m.				-08323001		-03022971	65.0		23.084			60.0	22.955			
	12. M.												72.5	22.410			
	1 P.M.							23.015	63.7				76.0	22.390			
	3. "				-07823023		+03623059	62.5		23.101			60.0	22.980			
<u>20901</u>																	
<u>Observations on Freels Peak, Prim. Triang. Station No. III.</u>																	
June 18	9 a.m.	47.0	20.227	-025	20.202	-025	20.177										
	10. "	48.0	.228	-027	.201	-020	.181										
	11. "	52.5	.228	-035	.193	-012	.181										
	12. M.	51.0	.242	-032	.210	000	.210										
	1 P.M.	51.5	.237	-033	.204	+016	.220										
	2. "	47.4	.229	-026	.203	+032	.235										

ANEROID No. _____			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.
Att'd Ther.	Reading.	Error.	No. _____	No. <u>9</u>	Maxi-mum.	Mini-mum.	Dry bulb.			Wet bulb.	Differ-ence.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
					+0.1	+0.2												Simultaneous readings taken in Camp, P. 8
					55.0	40.0	14.9			324								" " lat 38 44 56 B
					55.0	40.0	14.9			324								" " 56 B
					57.0	41.5	15.4			322								" " lat 38 44 56 B
					60.0	43.0	16.9			300								" " 56 B
					63.0	43.5	19.4			274								" " 56 B
					62.0	44.0	17.9			295								" " 56 B
					60.0	41.5	18.4			265								" " 56 B
					60.0	41.4	18.5			263								" " 56 B
					59.0					296								" " 56 B
					66.0	44.5	21.4			235								Simultaneous readings on P 8 + P 10
					64.5	42.0	22.4			210								" " lat 38 44 56 B
					64.5	44.0	20.4			248								" " lat 38 44 56 B
					63.0	43.5	19.3			567								" " lat 38 44 56 B
					62.0	43.0	18.9			263								" " lat 38 44 56 B
					61.0	42.0	18.9			258								" " lat 38 44 56 B
					63.5					297								" " lat 38 43 56 B
					70.184													" " lat 38 52 56 B
					44.0	36.0	8.0			501								" " lat 38 52 56 B
					45.0	37.0	7.0			550								" " lat 38 52 56 B
					49.0	40.0	9.0			486								" " lat 38 52 56 B
					48.0	39.5	8.5			544								" " lat 38 52 56 B
					48.0	40.0	8.0			524								" " lat 38 52 56 B
					44.0	37.2	6.8			558								" " lat 38 52 56 B
					46.3					527								" " lat 38 52 56 B

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 106

Dunn Hasson, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2095, THERMOMETERS (No. 4, No. 9), CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for June 14-18.

Observations at Camp No. 3 (Continued)

22.946

56.1 57.4

510 503

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and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations.

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 106

Sumner Hasson, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No., CISTERN BAROMETER No., ANEROID No., THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for June 19-21 at various stations like Triang Station, Summit of Round Top, and Camp No. 5.

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and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

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IN THE FIELD, 187

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER NO., CISTERN BAROMETER NO., ANEROID NO., THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for July 3rd, 4th, 5th, 6th, and 9th.

Observations, Sec. Triang. Station No. 6 Pyramid Peak

Observations at Camp No. 11, on Silver Creek (Big)

Observations at Camp No. 12, Tornis Ranch

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NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, 31.

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in

Book No. 106

Sunnystation, Computer. Q

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u> ERROR ± <u>-0.05 - 0.06</u>						CISTERN BAROMETER No. <u>2207</u>				ANEROID No. <u>10</u>			ANEROID No. <u>2089</u>			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Horary Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	Att'd Ther. Error.	Reading.	Att'd Ther. Error.	Reading.	Att'd Ther. Error.	Reading.	No. Maximum.	No. Minimum.	Dry bulb. <u>+0.1</u>	Wet bulb. <u>+0.2</u>	Difference.	Amount.	Name.			Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.					
<u>Observations at Camp N° 13, Hotchkiss' Ranch, near Geotown, Cal.</u>																																			
July 7 th	9. P.M.	68.0	27.170	-193	26.977	0.00	26.999	69.0			27.042	-120	27.050	68.0	27.140			70.0	51.0	18.9	295												Clear	0 0	38 55
"	8"	7. A.M.	75.0	.204	-210	.994		76.0			.070	.126	.078	76.0	.160			80.0	60.0	17.9	345											Clear	0 0	56 A	
"	"	2. P.M.	91.0	.238	-248	.990		90.5			.106	.124	.114	91.0	.175			91.5	64.0	26.9	227											Clear	W 1/2		
"	9	9. "	76.0	.184	-215	.969		73.0			.038	.038	.146	72.0	.150			76.0	58.0	7.9	599											Clear	0 0		
"	9	7. A.M.	67.5	.162	-192	.970	-0.037	68.5			.028	.026	.136	68.0	.104			68.0	61.5	8.4	597											Clear	0 0	Max + Min useless No attempt to record the reading of cistern baro point on -	
<u>Observations at Camp N° 12, Forni's Ranch (Returned) Cal</u>																																			
July 9 th	9. P.M.	48.5	25.374	-144	25.730	0.00	25.781	49.0			25.762	-104	25.770	51.0	25.890			52.0	42.0	8.9	497											Clear	0 0		
"	10"	7. A.M.	58.0	.890	-160	.730	-0.037	57.0			.776	-106	.784	58.0	.925			58.0	49.5	6.4	634											Clear	0 0	38 55 56 B	
<u>Observations at Camp N° 14, South Fork Saw Mill, S. Fork Amⁿ River, Cal</u>																																			
July 10 th	9. P.M.	50.0	25.086	-146	24.940	0.00	24.940	52.0			24.950	-128	24.958	51.0	25.040			54.0	47.0	9.9	495											Clear	0 0	56 B	
"	11"	7. A.M.	47.0	.080	-139	.941	-0.037	48.0			.926	.146	.934	48.0	.030			48.0	47.0	4.4	693											Clear	0 0	38 58	
"	"	"	77.5	.120	-211	.909	-0.012	89.7						78.0	.040			77.0	60.0	17.0	362														
"	"	12. M.	81.0	.108	-215	.893	0.00	89.3						79.0	.040			78.5	58.0	25.0	231														
"	"	1. P.M.	83.2	.118	-220	.898	+0.016	91.4						86.0	.040			81.8	60.0	21.8	284														
"	"	2. "	83.0	.120	-219	.901	+0.032	93.3						85.0	.040			81.0	59.5	21.5	285														
"	"	3. "	83.5	.108	-220	.888	+0.036	92.4	Robb's Peak					85.0	.040			80.0	57.5	22.5	264														
"	"	9. "	58.0	.080	-163	.917	0.00	91.7	Robb's Peak			24.980	.092	.988	55.0	25.060			58.0	47.0	6.9	612											Clear	0 0	
"	12	7. A.M.	54.0	.108	-155	.953	-0.037	91.6	Robb's Peak			25.000	.090	25.008	52.0	25.100			58.0	50.5	7.4	596	4										Cirrus	0 0	
<u>Observations on Robb's Peak, Top² Station, No</u>																																			
July 11 th	10. A.M.			-0.89	23.579	0.00	23.559	74.5			23.668			78.0	23.480			74.0	53.0	20.9	278													Observations taken 20' below summit	
"	"	11. "			-0.98	580	-0.012	568	79.0		.678			77.0	.500			72.0	52.0	9.9	515														
"	"	12. M.			-1.01	591	0.00	591	80.5		.692			78.0	.500			73.0	55.0	22.9	254														
"	"	1. P.M.			-1.04	592	+0.016	608	82.0		.696			80.0	.475			80.0	58.0	21.9	278														
"	"	2. "			-1.10	598	+0.032	630	85.0		.708			80.0	.475			80.0	55.0	24.9	227														
"	"	3. "			-1.00	592	+0.036	628	80.0		.692			79.0	.500			80.0	55.0	24.9	227														

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and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

SNOW IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 106

Sunn Hudson, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No., CISTERN BAROMETER No., ANEROID No., THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for July 12-15 at various locations like Camp No. 15, Tell's Ranch, and Miller's Ranch.

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On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer.

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 106

IN THE FIELD, 187

Sumner Hasson, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u> ERROR ± <u>-.098 - .096</u>						CISTERN BAROMETER No. <u>2207</u>			ANEROID No. <u>10</u>			ANEROID No. <u>2087</u>			
		Att'd Ther. Error ± <u>.007</u>	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	2161 Error.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	
<u>Observations at Camp No. 17 (Continued) Level</u>																	
July 17	7 a.m.	53.0	24.166	-	15034.016	.037	23999.54.0		24.068	-090	24.076	53.0	24.060		52.0	24.000	
"	10 "	72.0	.204	-191	.013	-020	.993		72.0	.070		72.0	.070				
"	11 "	74.0	.222	-195	.027	-012	2.019		73.0	.090		73.0	.090				
"	12 M	76.5	.224	-200	.024	.000	.024		76.0	.090		76.0	.090				
"	1 P.M	75.0	.222	-197	.025	-106	.041		76.0	.090		76.0	.090				
"	2 "	76.0	.222	-199	.023	-032	.055		76.0	.090		76.0	.090				
"	3 "	77.0	.210	-201	.009	-136	.045		77.0	.090		77.0	.090				
"	4 "	76.0	.210	-199	.010	-042	.052		77.0	.090		77.0	.090				
"	9 "	52.0	.170	-148	.022	.000	.022	56.0	24.084	-078	.092	54.0	.050		60.0	23.900	
"	18	7 a.m.	53.5	.128	-151	24.020	23977	-137	23940	56.0	.042	078	.050	58.0	.030	54.0	.940
<u>Observations on Prim Tri Station No. 7, Summit of the Needle. Level</u>																	
July 17	12 M				-067	21.795	.000	21.795	66.5		21.862		68.0	21.650		63.5	21.250
"	1 P.M				-064	796	+016	.812	65.0		.860		66.0	.650		64	21.225
"	2 "				-064	798	+132	.830	65.0		.862		64.0	.670		64	21.225
"	3 "				-066	788	+036	.824	66.0		.854		64.0	.670		64	21.215
"	4 "				-062	788	+042	.830	64.2		.850		64.0	.675			
"	5 "				-057	785	+045	.830	61.5		.842		63.0	.650			
<u>Observations on top of Pass over West Cañon, Squaw Valley. Level</u>																	
July 16	11 a.m				-049	21.857	-012	21.875	57.6		21.936						
"	"																
"	12 M				-051	21.449	.000	21.779	58.5		21.830						
"	11.30 am				-060	.770	-006	.764	63.0		21.830						
"	"																
"	1 P.M				-056	22.074	-106	22.090	61.0		22.130						

ANEROID No. <u>2093</u>	Att'd Ther. Error.	Reading.	Error.	THERMOMETERS.					Force of Vapor.	Rel. Humidity.	Amount.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.
				No. <u>9</u>	Maxi-mum.	Mini-mum.	Dry bulb. <u>+0.1</u>	Wet bulb. <u>+0.2</u>				Difference.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	
14		15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
						53.0	48.0	4.9		.695									Lat 39 12
						(72.0 184)	71.8	58.5	13.3										470
						72.5	61.0	11.5											
						74.0	54.0	20.0											
						74.0	56.0	18.0		.315									None
						74.8	56.0	18.8											
						75.0	58.0	17.0											
						75.0	57.0	18.0											
						56.0	48.0	7.9		.565									
						61.3	48.0	8.9		.530									
						59.8				.556									
						63.5	51.0	14.9		.372		Cleard							Observations taken 20' below summit
						64	50.5	15.4		.360									
						64	50.5	12.9		.419									
						64	50.0	14.9		.368									Lat 39 12
						62.5	48.5	13.9		.386									470
						62.0	48.5	13.4		.398									
						64.2				.384									
						57.6	50.5	0.60		.653		6 NW							470-3912
						57.6				.653									
						58.0	50.5	0.74		.596		6 NW							
						59	51.5	7.5		.595		6 NW							470 39 12
						58.5				.595									
						59.0	51.0	0.79		.576		5 NW							470 39 12
						59.0				.576									

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and 31. Separate the observations at each place from these at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 106

Sumner Stasson, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2089, THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for July 18, 19, and 20 at various locations like Camp No. 18, Mount Stanford, and Camp No. 19.

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METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in Book No. 107

IN THE FIELD, 187

James Hason, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u>					CISTERN BAROMETER No. <u>2207</u>					ANEROID No. <u>10</u>			ANEROID No. <u>2089</u>			THERMOMETERS.						CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.						
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error	Reading.	Error.	Att'd Ther. Error	Reading.	Error.	Att'd Ther. Error	Reading.	Error.	Att'd Ther. Error	Reading.	Error.	No. Maximum.	No. Minimum.	No. Dry bulb.	No. Wet bulb.	Difference.	Force of Vapor.	Rel. Humidity.	Amount.	Name.	Direction of Upper Clouds.	Began.		Ended.	Inches.	Direction.	Force.		
Observations on Top ² Station N ^o 16, Red Mt. <u>600</u>																																					
July 27	10. Am.			-081	22.629	-022	22.607	72.8	22.640			39	20	47.0							72.0	52.5	19.7		393											2207 Bowen on Peak at 12 m. upper part unpop.	
"	11. "			-081	633	-012	621	73.0	714	Bush											70.2	52.0	18.1		314												
Observations at Camp N ^o 23, Soda Springs <u>39 15 47 D</u>																																					
July 28	9. P.M.	50.0	24.390	-144	24.246	-000	24.246	49.0	24.300			39	15	47.0							51.0	51.0	42.0	8.9	497												
"	29	7. am.	48.0	.336	-140	.196	-037	159	24.202												51.0	51.0	42.0	8.9	497												
"	"	12.30 m.	53.0	23.424	-151	23.273	-000	23.273	281	24.281											56.0	56.0	49.0	6.9	612	612		39	14	47.0						* Summit bet. Soda Springs and French Meadows.	
Observations at Camp N ^o 24, French Meadows. <u>39 05 47 D</u>																																					
July 29	9. P.M.	47.0	25.000	-139	24.861	-000	24.861	48.0	24.925			39	05	47.0							50.0	44.5	5.5		651												
"	30	7. Am.	42.5	24.990	-129	24.861	-037	824	43.5	.956	-062										46.0	41.5	4.5		695												
Observations at Camp N ^o 25, M. Fork Am ⁿ River. <u>39 05 47 C</u>																																					
July 30	9. P.M.	73.0	28.816	-209	28.107	-000	28.107	74.0	28.280	-060		39	05	47.0							74.0	56.0	17.9		332												
"	31	7. am.	75.0	.340	-214	.126	-037	089	73.0	.280	-061										71.0	68.0	55.0	12.9	382	433											
"	"	9.30	80.0	26.554	-219	26.335	-022	26.313													78.0	78.0	56.0	21.9	.272	272		39	05	47.0						Ridge near M. F. Am. Riv.	
"	"	3.00	78.2	28.599	-261	28.338	-036	28.374													87.0	87.0	63.5	23.4	.268	268		32	05	47.0						Am. R. (M. F. Willows Riv.)	
"	"	5.00	84.4	26.424	-230	26.194	-005	26.239													82.0	82.0	57.0	24.9	.233	233		39	05	47.0						South Ridge Junction Trail and Wagon Road.	
Observations at Camp N ^o 13, Hotchkiss' Ranch near Geo. town. <u>38 55 STA</u>																																					
July 31 st	9. P.M.	71.0	27.138	-200	26.938	-000	26.938	73.0	27.106	-064		38	55	57.0							74.0	56.0	17.9		333												
Aug 1 st	7. am.	67.5	.158	-192	.962			68.1	.122	060											70.0	55.0	14.9		392												
"	2	7. am.	67.5	.208	-192	.016	-037	26.979	68.0	.172	060										70.0	62.5	7.5		321												
"	"	9. P.M.	71.5	.208	-201	27.007		72.0	.172	060											74.0	55.5	18.4		321												
"	"	7. am.	67.5	.208	-192	.016	-037	26.979	68.0	.178	066										78.0	69.0	53.5	15.4		340											
Comparison of Cistern Barometers. <u>2161 + 2207</u>																																					
Aug 1 st	8. am.	73.7	27.184					74.2	27.162	-074																											
"	"	9. "	78.7	.196	.100			79.0	.178	-078																											
"	"	10. "	82.0	.210	.114			82.4	.196	-082																											
"	"	11. "	83.5	.240	.144			84.5	.214	-070																											
"	"	12. m.	85.9	.254	.158			86.2	.220	-062																											

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METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 107

IN THE FIELD, 187

Sumner Hason, Computer.

DATE	HOUR	STANDARD CIST. BAROMETER No. <u>2161</u>					CISTERN BAROMETER No. <u>2207</u>					ANEROID No. <u>10</u>			ANEROID No. <u>2089</u>			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.			
		Att'd Ther. Error	Reading	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error	Reading	Error	Att'd Ther. Error	Reading	Error	Att'd Ther. Error	Reading	Error	No. Maximum.	No. Minimum.	Dry bulb.	Wet bulb.	Difference.	Amount.			Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.					
		<u>Observations on Top Station N° 19.</u>																																		
Aug 9"	11. AM			-147	21.697	-0.12	21.685	69.0			21.844			38	35	56 B			66.5	40.5	25.9			104	1	cu	W						SW	5		
	12. M			-156	.694	0.00	.694	74.0			.850								70.0	41.5	28.4			140	1	cu	W						SW	5		
	1. P.M.			-153	.705	+0.16	.721	72.5			.858								60.0	42.7	14.2			369	1	cu	W						6 r	5		
	2. "			-160	.698	+0.32	.730	76.0			.858								71.5	43.0	23.4			222												
		<u>Observations at Side Camp C"</u>																																		
Aug 10"	2 P.M.			-148	22.354	+0.32	22.351	68.7			22.470			38	38	56 B			66.0	66.0	46.2	19.7	.263	2.63						S	2					
"	5. "			-141	.473	+0.25	.518	65.5			.614			38	38	56 B			64.0	64.0	45.5	18.4	.283	2.83						SE	1	Upper Blue Lake				
"	9. "			-119	.326	0.00	.326	54.3			.445								55.5	40.4	14.7			333												
"	11 A.M.			-124	.317	-0.37	.280	57.0			.441								57.0	41.5	15.4			322												
		<u>Observations on Top Station N° 20. near Silver Lake</u>																																		
Aug 11	1. P.M.			-156	21.62	+0.16	21.178	75.0			21.318			38	38	56 B			74.8	43.8	25.9			296	4	cu	W						SE	3	All in Lake	
"	2. "			-157	.137	+0.32	.169	75.5			.294								73.0	43.8	24.1			216												
		<u>Observations at Camp N° 33, Hermit Valley.</u>																																		
Aug 12"	9. P.M.			-150	23.496	0.00	23.346	58.0			23.468	-0.68		58.0	23.325	62.0	23.200			58.0	45.5	12.4			410	4	cu	W						60		
"	13" 7. AM.			-144	.494	-0.37	.313	50.0			.464	-0.66		50.0	.330	49.0	.300			52.0	41.5	10.4			447	5	cu	W						60		
		<u>Observations on Top Station N° 21.</u>																																		
Aug 12"	2. P.M.			-157	21.708	+0.32	21.740	74.5			21.865			38	32	56 B			71.5	47.5	23.9			214	5	cu							SE	2		
	3. "			-160	.691	+0.36	.724	75.8			.851								72.0	48.7	23.2			227	8	cu							SE	2		
	4. "			-158	.696	+0.42	.738	74.8			.854								72.0	48.7	23.2			227	8	cu							SE	2		
		<u>Observations at Camp N° 34, Pacific Valley.</u>																																		
Aug 13"	1. P.M.			-196	22.942	+0.16	22.958				22.958			38	32	56 B			75.0	52.0	23.0			240												
"	2. "			-144	.196	.945	+0.32	.980			.975			38	32	56 B			76.0	54.0	22.0			260												
"	3. "			-134	.195	.939	+0.36	.975			.975			38	32	56 B			76.0	53.0	23.0			243												
"	4. "			-122	.193	.929	+0.42	.971			.971			38	32	56 B			73.0	52.0	21.0			267												
"	5. "			-124	.194	.930	+0.45	.975			.975			38	32	56 B			73.0	55.0	18.0			327												
"	9. "			-146	.942	0.00	.942	52.0			23.082	-0.90		54.0	.910	56.0	22.350			54.0	43.0	11.0			438											
"	14 7. AM.			-125	.929	0.00	.929	42.5			.018	-0.50		44.0	.890	46.0	.880			43.0	38.0	5.0			602											

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METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 107

Sumner & Hasson, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u> Error ± <u>-.098-.096</u>						CISTERN BAROMETER No. <u>2207</u> Error <u>-.067</u>				ANEROID No. <u>10</u>			ANEROID No. <u>2089</u>			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	No. Maxi-mum.	No. Mini-mum.	Dry bulb. <u>g</u>	Wet bulb. <u>g</u>	Difference.	Amount.			Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.				
<u>Observations on Top² Station N^o 22, Lookout Mt.</u>																																			
Aug 13	1 P.M.			-161.21213	21.229	77.5		21.374						38	20	56B				74.0	47.5	26.4	187	6	Cir Cu								0	Obs taken	
"	2 "			-161.207	23.9	77.5		.368												74.0	47.5	26.4	187	6	Cir Cu								0	16' below summit.	
"	3 "			-152.202	23.8	73.0		.358												72.0	48.5	23.5	225	6	"								0	"	
"	4 "			-149.201	24.3	71.0		.350												70.0	47.5	22.4	232	6	"				SW	1					
"	5 "			-141.199	24.4	67.0		.340												70.0	47.5	22.4	233	6	"				SW	2					
<u>Observations on Top² Station N^o 23.</u>																																			
Aug 14	12 M.			-165.22635	22.635	76.0		22.800						38	27	56B				73.0	46.5	26.4	182	6	"										
"	1 P.M.			-164.630	64.6	77.5		.794												74.0	49.0	24.9	208	6	"				SW	2					
<u>Observations at Camp N^o 35, Bear Valley.</u>																																			
Aug 14	9 P.M.	44.5	23.440	131.23309	23.309	44.5		23.404	-.060				46.0	23.240	44.0	23.270				48.0	38.0	9.9	447	0	"								0	All in cal	
"	15	7 A.M.	41.5	4.8	-125.383	33.037	34.6	43.0		.368	-.056			42.0	24.0	42.0	27.0				46.0	38.0	7.9	518	2	Cum	NW								
<u>Observations at Camp N^o 36, N. of Top² Station 24.</u>																																			
Aug 15	9 P.M.	57.5	23.738	158.23580	23.580	52.5		23.710	-.068				54.0	23.560	53.0	23.550				54.0	44.0	09.9	480		"										
"	10	7 A.M.	44.5	.730	137.593	23.7	55.6	42.5		.708	-.074			42.0	.560	42.5	.550				44.0	39.0	4.9	667		Str									
"	"	1 P.M.	77.0	.804	199.605	62.1	62.1		.620				77.0	.620						50.7	56.0	19.7	290												
"	"	2 "	77.0	.804	199.605	62.1	62.1		.600				77.0	.600						74.0	53.2	20.8	299	1	cu									0	
"	"	9 "	50.5	.756	144.612	51.5	51.5		.744	-.084			52.0	.600						50.0	45.0	5.0	678	3	cu									0	
"	"	4 "	41.0	.740	124.626	42.0	42.0		.718	-.074	075		42.5	.600						42.0	38.0	4.0	707	3	cu									0	
<u>Observations on Top² Station N^o 24, Dardanelles.</u>																																			
Aug 16	1 P.M.			-162.21336	21.352	77.3		21.498												75.0	49.8	25.2	255	8	cu									SW 2	
"	2 "			-148.339	37.1	70.5		.487												69.0	49.0	20.0	271	6	cu									0 0	
<u>Summit South Pacific Railway</u>																																			
* "	17	3 P.M.	70.5	22.142	180.21962	21.998														72.0	49.0	20.0	263		"										
"	"	"	"	"	"	"														70.1	45.0	19.9	254	8	Cu Cu	SW									* Summit S. Pacific Valley.
<u>Observations at Camp N^o 34, Pacific Valley.</u>																																			
Aug 17	9 P.M.	50.0	23.026	142.22884	22.884	51.0		22.976	-.046				52.0	22.828	52.5	23.100				52.0	43.0	8.9	502	9	cu mi									SW 1	
"	18	7 A.M.	46.5	22.980	134.846	43.0		.950	-.066				48.0	.800	48.0	.100				50.0	41.7	6.2	612	5	cu									0	Summit near S. Mt. City.
"	"	11 "	66.5	.060	176.884	22.872			-.056											64.0	43.5	20.4	241	241											

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METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 107

NOT IN THE FIELD, 187

Sumner Stinson, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u> Error ± <u>-.098</u> <u>-.096</u>						CISTERN BAROMETER No. <u>2207</u> Error <u>-.057</u>				ANEROID No. <u>10</u>			ANEROID No. <u>2089</u>			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.						
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	No. Maxi. Minu.	No. Dry bulb. Wet bulb. Difference.	Force of Vapor.	Rel. Humidity.	Amount.	Name.			Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.									
<u>Observations at Camp No 37, Silver Mt. City, Alpine Co. Cal</u>																																							
Aug 18	9. P.M.	65.0	23.962	17.6	23.786	0.00	23.786	66.0	23.942	-.096	66.0	23.800	67.0	23.900			66.0	54.0	11.9	456																			
"	19	7. A.M.	54.0	.960	-.152	.808		55.0	.930	-.066	52.0	.850	53.0	24.000			54.0	45.0	8.9	512																			
"	"	2. P.M.	77.5	.996	-.202	.794		78.5	.982	-.082	76.0	.996	75.0	23.995			86.0	59.0	20.4	298																			
"	"	9. "	61.0	24.016	-.167	.849		62.0	.994	-.074	60.5	.880	62.0	24.101			66.0	64.0	52.0	11.9	.520	750																	
"	20	7. A.M.	42.0	.010	-.127	.883	-.037	42.5	.992	-.078	43.0	.900	42.0	.150			46.0	38.5	7.4	543																			
"	"	1. P.M.	79.0	.042	-.206	.836	+.016	80.5	.880		80.5	.880					81.0	57.0	24.0	241																			
"	"	2. "	80.5	.050	-.209	.841	+.032	873			81.0	.890					82.0	58.0	23.9	248																			
"	"	3. "	81.0	.044	-.210	.832	+.036	870			82.0	.880					83.0	58.5	24.4	241																			
"	"	4. "	80.0	.044	-.206	.835	+.022	850	23.860 (std.)		82.0	.885					64.2	80.5	59.0	215	.358	276																	
"	"	5. "	77.0	.042	-.201	.841	+.045	886			79.0	.880					78.0	55.0	23.0	249																			
"	"	9. "	64.0	.030	-.174	.856	-.000	856			64.0	.900					64.5	46.0	18.5	282																			
"	21	7. A.M.	45.0	23.996	-.133	.863	-.037	826			45.0	.880					49.0	40.0	9.0	485																			
"	"	9. "	65.0	24.020	-.176	.844	-.025	819			64.0	.900					68.0	48.0	20.0	267																			
"	"	10. "	72.0	.040	-.191	.849	-.020	829			70.0	.900					73.0	53.0	20.0	286																			
"	"	11. "	75.0	.042	-.197	.845	-.012	833			74.0	.900					77.0	56.0	21.0	280																			
"	"	12. "	78.0	.050	-.204	.846	-.000	846			76.0	.900					78.0	56.0	22.0	265																			
"	"	1. "	78.0	.040	-.204	.836	+.016	852	23.841 (std.)		82.0	.885					65.0	82.0	59.0	23.0	.353	260																	
"	"	2. "	81.0	.044	-.210	.834	+.032	866			81.0	.885					82.0	59.0	23.0	260																			
"	"	3. "	80.0	.036	-.208	.828	+.036	864			82.0	.870					82.0	59.0	23.0	260																			
"	"	4. "	79.5	.030	-.207	.823	+.042	865			82.0	.850					80.0	57.0	23.0	254																			
"	"	9. "	63.0	23.998	-.171	.827	-.000	827			64.0	.850					64.0	47.0	17.0	314																			
"	22	7. A.M.	39.0	.938	-.120	.818	-.037	781			40.5	.810					41.0	35.0	6.0	582																			
"	"	1. P.M.	81.0	24.000	-.210	.790	+.016	806	23.789 (std.)		80.0	.840					63.5	82.0	61.0	21.0	.337	295																	
"	"	2. "	81.0	23.994	-.210	.784	+.032	816			81.0	.830					83.0	57.0	26.0	217																			
"	"	9. "	67.0	.940	-.150	.764	-.000	764	23.912	-.060	66.0	.850	70.0	23.900			66.5	49.0	17.5	312																			
"	23	7. A.M.	60.5	.922	-.166	.756		61.0	.888	-.062	60.0	.800	62.0	.890			84.0	68.0	16.0	406																			
"	"	2. P.M.	82.0	.920	-.212	.708		83.0	.880	-.056	80.5	.800	81.0	.885			60.0	41.0	19.0	252																			
"	"	9. P.M.	60.5	.912	-.166	.746		61.0	.884	-.068	58.0	.800	62.0	.925			68.3	61.0	42.0	19.0	.303	252																	
"	24	7. A.M.	58.0	.920	-.161	.759		59.0	.898	-.074	58.0	.810	60.0	.940			60.0	43.0	17.0	298																			
"	"	2. P.M.	68.0	.976	-.182	.794		70.0					70.0	.915			68.0	58.0	10.0	529																			

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METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 107

IN THE FIELD, 187

Sumner, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2089. Includes observations at Camp N. 37 and Station N. 25.

Table with columns for ANEROID No., THERMOMETERS (No. 184), Force of Vapor, Rel. Humidity, CLOUDS, RAIN OR SNOW, WIND, REMARKS. Includes observations at Camp N. 37 and Station N. 25.

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METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

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IN THE FIELD, 187

Sumner, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. 2161						CISTERN BAROMETER No. 2207				ANEROID No. 10			ANEROID No. 2039		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error	Reading.	Error.	Att'd Ther. Error	Reading.	Error.	Att'd Ther. Error	Reading.	Error.	
Observations on Top ² Station N ^o 28.																	
Aug 25	12. m			-123.21776	000	21.796	57.5		21.909		56.0	21.800		38	38		
	1. P.m.			-124.786	+016	.802	58.0		.910		56.2	.800					
	2. "			-124.780	+032	.812	57.8		.904		57.0	.800					
Observations at Camp N ^o 37 B Thompson's Rch., Diamond Valley																	
Aug 26	9. P.m.			-136.24616	000	24.616	60.0		24.752		59.0	24.640		38	47		
"	27 7. A.m.			-120.666	-037	.629	53.0		.786		56.0	.650					
Observations at Camp 37 C Mt. House, on Carson's Aurora Stage Line.																	
Aug 27	9. P.m.			-139.24529	000	24.529	61.5		24.668		60.2	24.550		38	45		
"	28 7. A.m.			-150.534	-037	.497	67.0		.684		60.0	.560					
Observations at Camp N ^o 37 D, Slingert's Valley.																	
Aug 28	9. P.m.			-135.23585	000	23.585	61.0		23.720		60.0	23.625		38	35		
"	29 7. A.m.			-118.604	-037	.567	52.8		.722		50.0	.600					
Observations on Top ² Station N ^o 29.																	
Aug 26	3. P.m.			+012.23688	+036	.23724					79.0	23.700		38	45		
"	4. P.m.			+012.678	+042	.720					78.5	.690					
On Top ² Station N ^o 30.																	
Aug. 27	7.30 a.m.			-002.24378	-033	.24345					65.0	24.380		38	47		
"	9.30 "			-012.373	-022	.351					68.0	.375					
Observations on Top ² Station N ^o 31.																	
Aug 29	12. m			-129.21387	000	21.387	61.0		21.516		58.0	21.360		38	33		
"	1. P.m.			-129.359	+016	.375	61.0		.478		59.0	.350					
"	2. "			-127.353	+032	.385	59.5		.480		58.0	.350					
* "	10. A.m.			-139.22380	-020	.2260	63.5		22.417								
Observations at Camp N ^o 37 E West Branch of Carson River.																	
Aug. 29	9. P.m.			-101.23.831	000	23.831	44.5		23.932		48.0	23.810		38	34		
"	30 7. A.m.			-070.858	-007	.821	30.0		.928		33.0	.850					

ANEROID No.			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	Amount.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.
Att'd Ther.	Reading.	Error.	No. Maxi-mum.	No. Mini-mum.	Dry bulb.	Wet bulb.	Difference.				Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.	
					9	+0.1	+0.2											
						53.5	40.2	13.2		363	3	cu					SW 15	
						58.0	40.5	17.4		277	2	cu						
						58.0	39.7	18.2		258	0							
						56.5				299								
						60.2	45.5	14.6		360								
						65.0	43.8	21.1		235								
						62.6				297								
						62.0	46.0	15.9		333							All in Cal	
						62.0	47.0	14.9		360								
						62.0				346								
						64.0	50.0	13.9		397								
						54.0	46.0	7.9		557								
						59.0				477								
						58.0	40.0	17.9		264	4	cu.						
						58.0	39.5	18.4		263	4	cu.						
						58.2	40.5	17.6		273	4	cu.						
						61.0	41.5	19.4		252							* Taken on Summit bet. Slingert and Bagley Valleys.	
						61.0				252								
						50.0	44.5	15.4		338								
						36.0	33.0	2.9		751								
						43.0				544								

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IN THE FIELD, 187

Summerson, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. 2161					CISTERN BAROMETER No. 2207					ANEROID No. 10			ANEROID No. 2087		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.
Observations on Popo ^g Station N ^o 32. 38 34 56 B																	
Aug 30	12. m			-1322	1.664	0.00	21.664	62.5		21.796		57.0	22.675				
"	1. Pm.			-141	.661	+016	.677	67.2		.802		59.0	.675				
"	2. "			-140	.660	+032	.692	66.5		.800		63.0	.675				
Observations at Camp N ^o 37 "F" 38 40 56 B																	
Aug 30	9. Pm.			-1123	2.251	0.00	23.251	49.2		23.362		50.0	23.175				
"	31 7. Am.			-091	.263	-037	.226	40.0		.354		40.0	.200				
Observations at Camp N ^o 38, Head of Mokelumne River 38 30 56 B																	
Sep ^t 3 rd	9. Pm.	50.9	22.244	-141	22.103	0.00	22.103	51.2		22.224	-076	51.0	22.150		54.0	22.300	
"	4	7. Am.	50.2	.216	-140	.076	.031	.045	50.2	.190	-070	52.0	.100		52.0	.275	
"	"	9. Pm.	53.0	.176	-146	.056	0.00	.056	52.0	.174	-074	54.0	.050				
"	5	7. Am.	56.5	.154	-152	.002	-031	21.971	58.5	.130	-072	58.0	21.980				
* (See Remarks) 22.044 -073																	
Sep ^t 4 th	8.30. Am.	56.0	22.200	-151	22.049	-027	22.022	22.022		22.022							
"	"	9. "	65.0	.176	-169	.007	-125	21.982	21.982							Summerson	
"	"	9.15	64.0	.180	-167	.013	-124	21.989	21.989								
Observations on Popo ^g Station N ^o 34. 38 31 56 B																	
Sep ^t 4 th	11. Am.	70.0	21.318	-175	21.143	-012	21.031										
"	"	12. m	76.0	.326	-186	.140	0.00	.140									
"	"	1. Pm.	74.5	.306	-184	.122	+016	.138									
"	"	2. "	73.0	.296	-181	.115	+032	.147									
"	"	3. "	70.5	.280	-176	.114	+036	.150		21.121							
"	"	5.45	60.0	.835	-158	.677	+041	21.718	21.718					38 30	56 B		
"	"	9.15. Am.	22.080		-136	22.104	-024	22.080	63.5	22.240							
Observations on Popo ^g Station N ^o 35. 38 29 56 B																	
Sep ^t 4 th	12. m			-154	22.908	0.00	22.908	75.0		21.062							
"	"	1. Pm.			-152	.908	+016	.924	74.0	.060							
"	"	2. "			-150	.904	+032	.936	72.5	.054							
20923																	

ANEROID No.	THERMOMETERS.	Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.
				No.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.	
	No. 9											
	Maxi-mum.											
	Mini-mum.											
	Dry bulb.											
	Wet bulb.											
	Difference.											
	Force of Vapor.											
	Rel. Humidity.											
	Amount.											
	Name.											
	Direction of Upper Clouds.											
	Began.											
	Ended.											
	Inches.											
	Direction.											
	Force.											

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

[FORM II.]
METEOROLOGICAL OBSERVATIONS

Party No. *2* Division No. *California*

Recorded in Book No. *107*

[TRANSCRIPT FROM FORM I.]
IN THE FIELD, 187

Sumner, Computer. ©

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <i>2161</i>						CISTERN BAROMETER No. <i>2207</i>				ANEROID No. <i>10</i>			ANEROID No. <i>2087</i>			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.															
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	No. Maximum.	No. Minimum.	Dry bulb.	Wet bulb.	Difference.	Amount.			Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.																	
<p><i>Observations at Camp No. 39, Golden Creek Cañon. (at Wood Camp)</i></p>																																																
Sep ^t 5	9. P.M.	56.0	22.690	-15322537	000	22.539	57.0	22.664	-070	56.0	22.570							64.0	48.0	15.1																												
"	6	7. A.M.	43.0	.656-127	529-037	492	44.0	.640	-080	44.0	.580							47.0	35.0	11.9																												
<p><i>Observations on Topog² Station No. 33.</i></p>																																																
Sep ^t 6	11. A.M.	48.7	20.920	-13520785	-012	20.773												48.0	35.0	12.9																												
"	"	12. M.	50.6	.922-139	783	000	.783											49.0	37.0	1.9																												
"	"	1. P.M.	52.6	.926-143	783	1016	.799											50.0	36.5	14.9																												
"	"	2. "	54.5	.930-146	784	1032	.816											50.0	37.5	13.4																												
<p><i>Observations at Camp No. 40, E. Fork Carson River.</i></p>																																																
Sep ^t 6	12. M.						71.2	23.444		69.0	23.275							67.8	46.8	21.0																												
"	"	1. P.M.					72.8	.450		70.2	.290							68.0	46.0	22.0																												
"	"	2. "					73.2	.452		71.0	.290							69.0	48.8	20.2																												
"	7	9. "	42.0	23.520	-12623394	000	42.0	.494	-070	44.0	.400			50.0	23.530			42.0	35.0	7.0	.536																											
"	8	7. A.M.	40.0	.493-122	376		41.0	.462	-060	43.0	.340			43.0	.580			42.0	36.0	06.0																												
"	"	7. P.M.	78.5	.500-202	298		79.0	.540		77.0	.350			80.0	.840			76.0	59.0	17.0																												
"	"	9. "	50.0	.520-143	377		51.0	.496	-072	53.0	.340			52.0	.520			57.0	53.0	42.5	10.4	.467																										
"	9	7. A.M.	51.0	.522-145	377		51.5	.486	-060	52.0	.350			52.0	.560			50.0	34.0	15.9																												
"	"	2. P.M.	31.0	.594-208	386		32.0	.564	-072	38.0	.370			38.0	.340			76.0	55.0	21.9																												
"	"	9. "	54.0	.554-151	403		55.5	.512	-054	56.0	.360			58.0	.550			60.2	54.5	47.0	7.5	.372																										
"	10	7. A.M.	60.5	.532-165	367		61.0	.502	-066	60.0	.460			62.0	.510			60.0	45.0	15.0																												
"	"	2. P.M.	74.5	.508-194	314		75.0	.468	-056	70.0	.400			71.0	.490			76.5	55.0	21.5																												
"	"	9. "	55.5	.400-152	246		56.0	.382	-078	57.0	.240			58.0	.280			63.8	55.0	43.0	12.0	.343																										
"	11	7. A.M.	61.5	.264-165	099		62.0	.240	-072	62.0	.100			60.0	.290			51.7	44.0	7.7																												
"	"	2. P.M.	57.0	.243-156	092		58.0	.216	-064	55.0	.060			56.0	.250			53.5	44.0	9.5																												
"	"	9. "	35.5	.220-112	105		35.5	.180	-056	40.0	.055			38.0	.290			46.4	34.0	31.0	3.0	.585																										
"	12	7. A.M.	37.1	.230-115	115		38.2	.206	-072	40.0	.090			38.0	.340			35.3	32.0	3.3																												
"	"	2. P.M.	35.0	.276-111	165		36.5	.248	-068	38.0	.100			38.0	.360			34.5	34.0	.5																												
"	"	9. P.M.	31.5	.360-104	256		32.0	.318	-054	34.0	.300			34.0	.490			34.4	33.5	31.5	2.0	.697																										

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 107

IN THE FIELD, 187

Sumner Hasson, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2089, ANEROID No., THERMOMETERS (No. 184), FORCE OF VAPOR, REL. HUMIDITY, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for Sept 13-20 and a summary at the bottom.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations.

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in Book No. 107

Sumner Mason, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2087, THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for 'Side Trip' and 'Observations at Camp No. 40 St'.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations.

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in Book No. 107

IN THE FIELD, 187

Sumner, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No., CISTERN BAROMETER No., ANEROID No., THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for Camp No. 42, Fish Valley and Station No. 37.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

On the first of these lines record in red ink the means of the preceding set of observations. On the lines and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them.

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 107

IN THE FIELD, 187

Sumner, Computer

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2087, THERMOMETERS (No. 184), FORCE OF VAPOR, REL. HUMIDITY, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for observations at Camp No. 44, Camp No. 45, Camp No. 46, and Camp No. 47.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations.

METEOROLOGICAL OBSERVATIONS

3000 IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in

Book No. 107

Sumner, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No. 2089, THERMOMETERS (No. 9), CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for Sept 29 and Oct 1-6.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations.

METEOROLOGICAL OBSERVATIONS

Party No. *2* Division No. *California*

Recorded in Book No. *107*

IN THE FIELD, 187

Sumner H. Halloway, Computer.

DATE	HOUR	STANDARD CIST. BAROMETER No. <i>2161</i>					CISTERN BAROMETER No. <i>2207</i>					ANEROID No. <i>10</i>			ANEROID No. <i>2089</i>		
		Att'd Ther. Error	Reading	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction	Barometer reduced	Att'd Ther. Error	Reading	Error	Att'd Ther. Error	Reading	Error	Att'd Ther. Error	Reading	Error	
<i>Observations at Camp 50, (Continued)</i>																	
<i>Oct. 9</i>	<i>7. AM</i>	<i>50.0</i>	<i>24.270</i>	<i>-.097</i>	<i>10424126</i>	<i>-.037</i>	<i>24.089</i>							<i>52.0</i>	<i>24.300</i>		
	<i>12. M</i>	<i>83.0</i>	<i>.320</i>	<i>-.214</i>	<i>106</i>	<i>.020</i>	<i>106</i>							<i>88.0</i>	<i>.050</i>		
	<i>12.30</i>	<i>83.5</i>	<i>.312</i>	<i>-.215</i>	<i>.007</i>	<i>+.008</i>	<i>105</i>							<i>88.0</i>	<i>.050</i>		
	<i>1.00</i>	<i>85.2</i>	<i>.298</i>	<i>-.209</i>	<i>.079</i>	<i>+.016</i>	<i>105</i>							<i>88.0</i>	<i>.025</i>		
	<i>1.30</i>	<i>85.0</i>	<i>.292</i>	<i>-.217</i>	<i>.075</i>	<i>+.024</i>	<i>109</i>							<i>88.2</i>	<i>.010</i>		
	<i>2.00</i>	<i>82.0</i>	<i>.278</i>	<i>-.212</i>	<i>.086</i>	<i>+.032</i>	<i>118</i>							<i>85.0</i>	<i>.025</i>		
	<i>9.00</i>	<i>54.0</i>	<i>.286</i>	<i>-.152</i>	<i>.054</i>	<i>.000</i>	<i>.084</i>	<i>55.5</i>	<i>24.200</i>	<i>-.103</i>	<i>24.133</i>	<i>55.0</i>	<i>24.200</i>	<i>55.0</i>	<i>.200</i>		
<i>" 10</i>	<i>7. AM</i>	<i>55.0</i>	<i>.220</i>	<i>-.152</i>	<i>.066</i>	<i>-.037</i>	<i>.029</i>	<i>53.5</i>	<i>.192</i>	<i>.093</i>	<i>.127</i>	<i>58.0</i>	<i>-.200</i>	<i>58.0</i>	<i>.200</i>		
<i>Observations on Topog² Station No. 44.</i>																	
<i>Oct. 9</i>	<i>12. M</i>			<i>-.151</i>	<i>21825</i>	<i>.000</i>	<i>21.825</i>	<i>71.5</i>	<i>21.976</i>			<i>64.0</i>	<i>21.735</i>				
	<i>12.30</i>			<i>-.126</i>	<i>774</i>	<i>+.008</i>	<i>782</i>	<i>68.5</i>	<i>.920</i>			<i>63.0</i>	<i>.714</i>				
	<i>1.00</i>			<i>-.145</i>	<i>773</i>	<i>+.016</i>	<i>789</i>	<i>68.0</i>	<i>.918</i>			<i>64.5</i>	<i>.700</i>				
	<i>1.30</i>			<i>-.144</i>	<i>768</i>	<i>+.024</i>	<i>792</i>	<i>67.5</i>	<i>.912</i>			<i>64.0</i>	<i>.700</i>				
	<i>2.00</i>			<i>-.145</i>	<i>755</i>	<i>+.032</i>	<i>787</i>	<i>68.0</i>	<i>.900</i>			<i>65.0</i>	<i>.685</i>				
<i>Observations at Camp No. 51, near Coleridge</i>																	
<i>Oct. 10</i>	<i>9. AM</i>	<i>52.0</i>	<i>24.970</i>	<i>-.120</i>	<i>24820</i>	<i>.000</i>	<i>24.820</i>	<i>52.8</i>	<i>24.940</i>	<i>-.097</i>	<i>24.873</i>	<i>60.0</i>	<i>24.700</i>	<i>54.0</i>	<i>25.000</i>		
<i>" 11</i>	<i>7. AM</i>	<i>47.5</i>	<i>.936</i>	<i>-.114</i>	<i>798</i>		<i>50.0</i>	<i>.912</i>	<i>-.091</i>	<i>843</i>	<i>44.5</i>	<i>.800</i>	<i>45.0</i>	<i>.050</i>			
	<i>2. PM</i>	<i>72.0</i>	<i>.948</i>	<i>-.164</i>	<i>758</i>		<i>73.0</i>	<i>.922</i>	<i>-.093</i>	<i>855</i>		<i>.800</i>	<i>72.0</i>	<i>.000</i>			
	<i>9.</i>	<i>48.0</i>	<i>.876</i>	<i>-.111</i>	<i>749</i>		<i>48.5</i>	<i>.850</i>	<i>-.093</i>	<i>783</i>	<i>49.0</i>	<i>.750</i>	<i>50.0</i>	<i>24.950</i>			
<i>" 12</i>	<i>7. AM</i>	<i>36.0</i>	<i>.836</i>	<i>-.083</i>	<i>731</i>		<i>36.0</i>	<i>.814</i>	<i>-.089</i>	<i>747</i>	<i>35.0</i>	<i>.700</i>	<i>38.0</i>	<i>25.000</i>			
<i>" * 11</i>	<i>8.45</i>	<i>59.5</i>	<i>.928</i>	<i>-.195</i>	<i>773</i>		<i>24.707</i>										
<i>Observations at Camp No. 45, (Returned) Bridgeport</i>																	
<i>Oct. 13</i>	<i>7. AM</i>	<i>40.5</i>	<i>23.674</i>	<i>-.104</i>	<i>23520</i>	<i>-.037</i>	<i>23.493</i>	<i>41.5</i>	<i>23.624</i>	<i>-.087</i>	<i>23.557</i>	<i>42.0</i>	<i>23.500</i>	<i>41.0</i>	<i>23.680</i>		
	<i>2. PM</i>	<i>52.0</i>	<i>.616</i>	<i>-.118</i>	<i>444</i>	<i>+.032</i>	<i>506</i>	<i>53.0</i>	<i>.592</i>	<i>-.091</i>	<i>525</i>	<i>52.0</i>	<i>.480</i>	<i>52.0</i>	<i>.675</i>		
	<i>9. "</i>	<i>36.5</i>	<i>.650</i>	<i>-.088</i>	<i>526</i>	<i>.000</i>	<i>526</i>	<i>38.5</i>	<i>.614</i>	<i>-.103</i>	<i>547</i>	<i>38.0</i>	<i>.500</i>	<i>38.0</i>	<i>.730</i>		
<i>" 14</i>	<i>7. AM</i>	<i>29.0</i>	<i>.708</i>	<i>-.072</i>	<i>606</i>	<i>-.037</i>	<i>569</i>	<i>31.0</i>	<i>.678</i>	<i>.097</i>	<i>611</i>	<i>32.0</i>	<i>.580</i>	<i>33.0</i>	<i>-.860</i>		

ANEROID No.	THERMOMETERS.	Force of Vapor.	Rel. Humidity.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.
				Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.	
	No. <i>9</i>										
	Max. Min. Dry bulb. Wet bulb. Difference.										
	<i>55</i>	<i>69</i>									
	<i>50.0</i> <i>40.5</i> <i>9.4</i>	<i>465</i>	<i>4</i>	<i>Cu</i>	<i>SE</i>						
	<i>83.0</i> <i>58.0</i> <i>24.9</i>	<i>236</i>		"	"						
	<i>83.5</i> <i>58.0</i> <i>25.4</i>	<i>228</i>		"	"						
	<i>85.2</i> <i>60.0</i> <i>25.1</i>	<i>236</i>		"	"						
	<i>85.0</i> <i>58.0</i> <i>26.9</i>	<i>231</i>		"	"						
	<i>82.0</i> <i>56.0</i> <i>25.9</i>	<i>218</i>		"	"						
	<i>54.0</i> <i>38.0</i> <i>15.9</i>	<i>289</i>	<i>9</i>	<i>Cu nim</i>							<i>An 10 left camp at 6.30 with animals</i>
	<i>62.0</i>	<i>321</i>									
	<i>56.0</i> <i>44.0</i> <i>11.9</i>	<i>417</i>									
		<i>478</i>									
	<i>57.7</i>	<i>184</i>									
	<i>64.0</i> <i>49.0</i> <i>15.0</i>	<i>362</i>	<i>1</i>						<i>S</i>	<i>2</i>	
	<i>64.0</i> <i>49.0</i> <i>15.0</i>	<i>362</i>	<i>0</i>						<i>S</i>	<i>2</i>	
	<i>63.5</i> <i>44.0</i> <i>19.5</i>	<i>257</i>	<i>0</i>						<i>S</i>	<i>4</i>	
	<i>63.0</i> <i>43.0</i> <i>20.0</i>	<i>247</i>	<i>0</i>						<i>S</i>	<i>2</i>	
	<i>63.0</i> <i>43.5</i> <i>19.5</i>	<i>255</i>	<i>1</i>	<i>Cu</i>	<i>SE</i>				<i>W</i>	<i>6</i>	
	<i>64.5</i>	<i>297</i>									
	<i>55.0</i> <i>48.0</i> <i>7.0</i>	<i>601</i>	<i>0</i>								
	<i>51.0</i> <i>46.0</i> <i>5.0</i>	<i>682</i>	<i>8</i>	<i>Cu nim</i>	<i>SE</i>						
	<i>72.0</i> <i>49.0</i> <i>23.0</i>	<i>229</i>	<i>9</i>								<i>An 10 on march</i>
	<i>47.8</i> <i>41.0</i> <i>6.8</i>	<i>558</i>	<i>6</i>								
	<i>56.9</i>	<i>498</i>									
	<i>40.0</i> <i>34.0</i> <i>6.0</i>	<i>578</i>									
	<i>52.0</i> <i>43.0</i> <i>9.0</i>	<i>501</i>							<i>SE</i>	<i>2</i>	<i>St. ditch</i>
	<i>52.0</i>	<i>501</i>									
	<i>39.0</i> <i>36.0</i> <i>3.0</i>	<i>761</i>	<i>8</i>	<i>Cu</i>	<i>NW</i>						
	<i>47.0</i> <i>40.0</i> <i>7.0</i>	<i>565</i>	<i>9</i>	<i>Cu nim</i>	"				<i>SW</i>	<i>15</i>	
	<i>38.0</i> <i>34.0</i> <i>4.0</i>	<i>686</i>	<i>10</i>	<i>Cu nim</i>	<i>NW</i>	<i>4 PL</i>	<i>6 PM</i>		<i>SW</i>	<i>6</i>	
	<i>33.0</i> <i>25.0</i> <i>8.0</i>	<i>341</i>									

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and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 107 and 108

IN THE FIELD, 187

Dunn & Hesson, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u>						CISTERN BAROMETER No. <u>2207</u>				ANEROID No. <u>10</u>		ANEROID No. <u>2089</u>		
		Att'd Ther. Error \pm <u>.07</u>	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.
<u>Observations at Camp No. 52, on Buckeye Creek.</u>																
Oct. 14	9. P.M.	31.8	23.032	22.931	22.931	31.5	23.004	22.937	22.937	32.0	22.900	32.0	23.160			
"	15	7. A.M.	19.0	1.034	.962	19.5	.010	.091	.949	20.0	1.900	20.0	.219			
<u>Observations at Camp No. 53, Lost Camp.</u>																
Oct. 15	9. P.M.	24.8	22.760	22.642	22.642	26.5	22.734	22.667			27.0	22.950				
"	16	7. A.M.	16.0	.782	.689	17.0	.762	.087	.695			18.0	.950			
<u>Observations at Camp No. 46 (Returned)</u>																
Oct. 16	9. P.M.	30.3	22.984	22.867	22.867	29.5	22.936	22.859	22.859	33.0	22.820	34.0	23.100			
"	17	7. A.M.	21.0	.996	.884	22.0	.948	.115	.881	28.0	.840	28.0	.625			
"	*	10. "	58.0	23.220	23.062	23.042		.115								
<u>Observations at Camp No. 54, N. Fork N. Walker River.</u>																
Oct. 17	9. P.M.	29.5	23.660	23.523	23.523	30.0	23.632	23.555	23.555	30.0	23.500	31.0	23.800			
"	18	7. A.M.	12.0	.670	.629	12.5	.662	.095	.595	12.0	.550	12.0	.600			
"	*	2. P.M.	53.0	21.336	21.193	21.225		.100								
<u>Observations at Camp No. 55, Summit Valley, Sonora Rd.</u>																
Oct. 18	9. P.M.	35.0	21.460	21.350	21.350	37.0	21.400	21.293	21.293	38.0	21.160					
"	19	7. A.M.	26.5	.488	.345	28.0	.418	.087	.351	28.0	.140					
<u>Observations at 56, at Hay's Station, Eureka Valley.</u>																
Oct. 19	9. P.M.	35.5	24.220	24.100	24.100	36.5	24.184	24.117	24.117	34.0	23.910					
"	20	7. A.M.	23.0	.178	.085	28.5	.152	.093	.085	30.0	.840					
<u>Observations at Camp No 57 on Sonora Road.</u>																
Oct. 20	9. P.M.	35.5	23.980	23.867	23.867	37.0	23.952	23.885	23.885	38.0	23.830	38.0	24.100			
"	21	7. A.M.	37.2	.744	.687	38.0	.908	.103	.841	38.0	.690	40.0	.050			

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ANEROID No. _____			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.
Att'd Ther.	Reading.	Error.	No. _____	Maxi- mum.	Mini- mum.	Dry bulb.	Wet bulb.			Differ- ence.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<u>Observations at Camp No. 52, on Buckeye Creek.</u>																	
38	15	56 B				30.0	28.0	2.0	698	4	cu	NE					SW 4
						17.0	14.0	5.0	136	1	cu	NW					0
						24.5			217								
<u>Observations at Camp No. 53, Lost Camp.</u>																	
38	16	56 B				24.0	22.0	2.0	538								
						16.0	14.0	2.0	483								
						20.0			495								
<u>Observations at Camp No. 46 (Returned)</u>																	
38	21	56 B				29.0	24.5	4.5	394								
						25.0	21.0	17.0	40	378	263						
<u>Observations at Camp No. 54, N. Fork N. Walker River.</u>																	
38	21	56 B				53.5	58.5	15.0	271								* St. Warm Springs
38	20	56 B				53.5			271								Sonora Road.
						31.0	27.0	4.0	520								
						22.5	14.0	12.0	140	1520							
<u>Observations at Camp No. 55, Summit Valley, Sonora Rd.</u>																	
38	19	56 B				48.0	58.5	9.5	461								NW 4
						48.0			461								Sonora Road.
						39.0	32.0	7.0	512								N 2
						28.0	23.0	5.0	318								
						33.5			415								
<u>Observations at 56, at Hay's Station, Eureka Valley.</u>																	
38	18	56 B				34.0	30.0	4.0	628								
						29.0	24.0	5.0	355								
						31.5			491								
<u>Observations at Camp No 57 on Sonora Road.</u>																	
38	17	56 B				36.0	34.0	2.0	821	6	cu	W					
						37.0	33.5	3.5	715								
						36.5			768								

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METEOROLOGICAL OBSERVATIONS

Party No. 2 Division No. California

Recorded in

Book No. 108

IN THE FIELD, 187

Dunn & Newell Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u>					CISTERN BAROMETER No. <u>2207</u>					ANEROID No. <u>10</u>			ANEROID No. <u>2089</u>		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Reading.	Error.	Reading.	Error.	Reading.	Error.
<u>Observations at Camp No. 58 at Strawberry</u>																	
Oct. 21	5 ^{PM}	45.0	24.858	-106	24.716	103	24.748	46.0	24.822	-103	24.755	-	-	48.0	24.960		
"	7	40.0	.858	-095	735	000	735	41.0	.830	-095	763	42.0	37.0	48.0	.975		
"	22	7. AM	34.0	.854	-082	738	-037	701	.820	-105	753	37.0	.610	38.0	.890		
<u>Observations at Camp No. 59 at Northrup</u>																	
Oct. 22	9. PM	44.5	25.568	-105	25.429	000	25.429	45.0	25.534	-101	25.467	44.0	25.400	44	25.850		
"	23	7. AM	42.0	.574	-100	444	-037	407	.544	-097	477	42.5	440	43	.800		
<u>Observations at Camp No. 60, Illinois Ranch</u>																	
Oct. 23	9. PM	55.2	28.386	-136	28.210	000	28.210	55.7	28.346	-107	28.279	58.0	28.300	-	-		
"	24	7. AM	47.5	.410	-117	275	-037	238	.392	-085	325	48.0	.350	-	-		
<u>Observations at Camp No. 61, San Andreas, Catalina</u>																	
Oct. 24	9. PM	55.0	29.150	-149	28.979	000	28.979	60.0	29.128	-089	29.061	58.0	29.150	-	-		
"	25	7. AM	52.0	.146	-130	29.014	-039	977	.144	-069	077	51.0	.175	-	-		
<u>Observations at Camp No. 62, ~~~~~</u>																	
Oct. 25	9. PM	59.0	27.900	-150	27.734	000	27.734	61.5	27.884	-083	27.817	53.0	27.810	58.0	27.900		
"	26	7. AM	47.8	.842	-108	714	-037	677	.822	-087	755	49.0	.960	50.0	28.840		
<u>Observations at Camp No. 63, Big Trees, Catalina</u>																	
Oct. 26	9. PM	38.0	25.288	-093	25.175	000	25.175	40.0	25.268	-087	25.201	40.0	25.650	39.0	30.8		
"	27	7. AM	24.8	.264	-059	169	-037	132	.228	-103	161	30.0	.250	38.5	-		
<u>Observations at Camp No. 64, Black Spring, B. T. Road</u>																	
Oct. 27	9. PM	29.5	23.750	-059	23.645	000	23.645	24.9	23.704	-113	23.637	32.0	23.700	-	-		
"	28	7. AM	24.0	.674	-057	535	-037	548	.642	-099	575	28.0	.610	-	-		
<u>Observations at Camp No. 65, Bear Valley, Bloods Toll House</u>																	
Oct. 28	9. PM	36.5	23.116	-087	22.995	103	23.021	38.0	23.082	-107	23.015	-	-	40.0	23.540		
"	29	7. AM	19.5	.058	-047	963	-037	229	.044	-091	229	21.0	.950	22.0	.400		

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ANEROID No.	THERMOMETERS.	CLOUDS.	RAIN OR SNOW.	WIND.	REMARKS.												
						Att'd Ther.	Reading.	Error.	No.	No.	Dry bulb.	Wet bulb.	Difference.	Force of Vapor.	Rel. Humidity.	Amount.	Name.
38 11	56 A																
					Rain + Fog												
56 C	38 04																
					Rain + mist												
56 C	38 00																
56 A	38 10																
56 B.	38 13																
56 B	38 17																
56 B	38 23																
56 B	38 29																
					Heavy Snow Storm												

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METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in

Book No. 108

Sumner Sturson, Computer. ©

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <u>2161</u>						CISTERN BAROMETER No. _____			ANEROID No. <u>10</u>			ANEROID No. _____			THERMOMETERS.						Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.								
		Att'd Ther. Error ±	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.	No. _____	No. _____	Dry bulb.	Wet bulb.	Difference.			Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.									
<u>Observations at Camp No 73, Winters Mine</u>																																									
Nov. 19	9. P.M.	30.0	22.042	-100	21.942	0.00	21.942			31.0	21.920						14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	2207 not used						
"	20	7. A.M.	13.0	21.796	-067	21.929	-037	892		13.0	.860																														
"	"	9. P.M.	28.5	22.016	-096	21.920	0.00	1920		20.0	.850																														
"	21	7. A.M.	28.0	21.840	-096	21.744				30.0	.700																8	ben Cu						SW	20						
"	"	2. P.M.	38.0	.936	-116	.820				38.0	.500																	6	Cir						SW	30					
"	"	9. "	26.5	.960	-094	.866				30.0	.570																										SW	30			
"	22	7. A.M.	34.0	.910	-108	.802				36.0	.550																														
"	"	2. P.M.	48.0	.932	-136	.796				48.0	.520																														
"	"	9. "	32.0	.828	-104	.724				33.0	.500																														
"	23	7. A.M.	29.0	.830	-098	.732	-037	.695		30.0	.400																														
<u>Observations on Triangulation Station No 15 Como Peak</u>																																									
"	20	1 P.M.	33.7	21.412	-110	21.302	-026	21.321																																	
"	"	2 P.M.	32.8	21.404	-106	21.298	+032	.330																																	
<u>Observations at Camp No. 74, Mc Tannahan's Road.</u>																																									
Nov. 23	9. P.M.	23.0	23.962	-086	23.876	0.00	23.876			28.0	23.650																														
"	24	7. A.M.	18.0	24.012	-075	23.937	-037	.900		20.0	23.710																														
"	"	10. "	49.0	23.436	-141	23.295	-020	23.275																																	
<u>Observations at Camp No. 75, Hot Springs.</u>																																									
Nov. 24	9. P.M.	35.0	25.682	-112	25.570	0.00	25.570			42.0	25.400																														
"	25	7. A.M.	20.8	.680	-080	.600	-037	.563		26.0	.360																														
<u>Observations at Camp No. 76, Wellington Station</u>																																									
Nov. 25	2. P.M.	70.0	25.624	-192	25.432	+032	25.464																																		
"	"	9. "	43.5	.592	-132	.460	0.00	.460																																	
"	26	7. A.M.	30.0	.442	-101	.341	-037	.304																																	

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and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 187

Party No. 2 Division No. California

Recorded in

Book No. 108

Sum & Season, Computer. P

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2161, CISTERN BAROMETER No. 2207, ANEROID No. 10, ANEROID No., THERMOMETERS (No. 1814), Force of Vapor, Rel. Humidity, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for Nov. 26, 27, 28 at various locations like Camp No. 37 and Double Springs.

Error of Cist. Bar. No. 2161 as determined by comparison with standard No. 2178 at Carson City - 038 used till June 12th, broken and refilled. Error as determined by comparison with 2207 - 090 used till June 27th, broken and refilled, Error as determined by comparison with 2207 - 096 used till June Oct. 6th, broken and refilled. Error as determined by comparison with 2207 - 096 used till end of season.

Error of Cist. Bar. No. 2207 as determined by comparison with standard No. 2178 at Carson City +.008 used till July 27th, tube broken and refilled. Error as determined by comparison with 2161 - 067 used till Nov. 17th. Not working well and used no more during season.

Carson City, Horary curve used alone.

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