

Berwickshire Station.

METEOROLOGICAL OBSERVING BOOK

For the Year 1889.

Corrections.

max. & R 120

min + 0.6 1.6

wet + 0.3

Bar. - .004 in.

new max + 0.2 taken 5 Apr C.H.

max 962 no correction

new correction

1889		January								
Date	Time	1	2	3	4	5	6	7	8	9
INSTRUMENT.		Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer		73	70	70	68	61	62	64	62	61
Barometer		652	660	516	286	366	500	500	660	738
Dry Bulb		75.9	71	71.7	63.5	60	64.8	64.1	63.5	62.4
Wet Bulb		64	59.7	59	61	50.1	54.5	51.7	54.5	54.5
Maximum		90	98	94	93.3	76.8	80	85.8	85	84.7
Minimum		48.4	44.7	48.8	54.6	42.5	31	35.3	41.4	38.7
Rain Measure		0	0	0	34	5	0	0	0	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind		E	E	NW	NW	SW	W	W	E	E
Velocity										
Force		0	0	2	2	2	2	0	1	1
Cloud		0	0	0	10	0	1	0	0	0
Remarks		Thunder in aft with little rain	Fine	do cloud forming in aft heavy showers in early mg.	clear at midday	Fine and clear.	do	do	do	do

1889 *January*

Date

Time

INSTRUMENT.

	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	69	75	70	71	76	78	76	72	73
Barometer	772	754	726	688	626	554	558	510	480
Dry Bulb	73	76.8	73	76	74.1	79.4	81	73.8	72
Wet Bulb	55	56	57.5	57.1	59	63.9	62	64.3	62
Maximum	88.2	95.8	98	97.1	101.3	100.6	102.0	99.4	94.3
Minimum	38.7	39.3	39	39.6	51	54	52.8	55.2	55.5
Rain Measure	0	0	0	0	0	0	6	6+	0
Evaporation	{ Weight ... Amount ...								
Direction of Wind		E	E	W	W	NW	NW	NW	NW
Velocity									
Force	1	1	0	0	1	2	0	2	2
Cloud	0	0	0	0	0	1	1	8	8
Remarks	{ do do	do	do	do	do	do	do	do	do
		do	do	do	do	showers at night	do	do	do
								Thunder in aft	Cloudy

January
1889 Date

	Kum									
	19	20	21	22	23	24	25	26	27	
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer	69	70	68	66	67	69	72	73	70	
Barometer	584	622	548	594	528	530	552	558	404	
Dry Bulb	71	72.8	66	67.2	67.6	69	73	75.1	65.7	
Wet Bulb	61.4	58.6	61.2	62.8	62	63.4	65	66.2	65	
Maximum	97	95.6	97	80.5	81	87.4	90	95.4	92.3	
Minimum	47.6	45.7	45.6	50.2	46.7	53	54.2	54.7	54.6	
Rain Measure	0	0	12.5	0	52	0	2	25	91	
Evaporation... { Weight...										
{ Amount ...										
Direction of Wind ...	E	W	NW	E	W	NW	W	W	NW	
Velocity ...										
Force ...	1	1	0	1	1	2	1	1	2	
Cloud ...	0	4	3	3	8	3	9	1	10	
Remarks...	Fine	Fine terrible T storm at midnight from SW	Clearing rain terrible rain gusty windy cow	heavy shower at midday	Thunder at noon on S sea drops rain	Fine	Cloudy	Thunder all aft rain after light heavy in early m.	Cloudy T storms all round in evg.	Clearing Thunder in aft

January
1889 Date

Time

INSTRUMENT.

Reading.

Reading.

Reading.

Reading.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain Measure

Evaporation... { Weight...

{ Amount ...

Direction of Wind

Velocity

Force

Cloud

Remarks ...

Days rain.

Lightning.

Mean diurnal range

43°.8 corr.

58°.5 corr.

Greatest dr.

71°.4 corr.

70°.1 corr.

Mean temp.

92°.0 corr.

48°.2 corr.

69°.5

max.

min.

dry

Humidity 53

wet

59°.5 corr.

2.8

cloud

Humidity 53

since 1-Jan

3.61

In. of rain

since 1-Jan

3.61

28

9 a.m.

Reading.

Reading.

Reading.

Reading.

Attached Thermometer

69

62

60

59

59

64

70

72

Barometer

274

430

590

668

688

656

588

512

480

Dry Bulb

69.5

61

62

60

55.5

54

54

59

61.5

61

Wet Bulb

59.2

54.7

54

55.5

54

54

59

61.5

61

Maximum

78.8

78.5

78.5

78.5

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February

1889	Date	6	7	8	9	10	11	12	13	14
	Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
	INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	65	627	61	57	61	65	64	66	69
Barometer	...	322	392	280	460	554	676	736	674	550
Dry Bulb	...	62	60	60	57	57	67.5	67	67	71
Wet Bulb	...	61	54	50	52	56	60.5	60	61	63
Maximum	...									
Minimum	...									
Rain Measure	...	65	0	0	23	0	0	0	0	0
Evaporation	{ Weight ... Amount ...									
Direction of Wind	...	W	W	W	S	E	E	E	W	W
Velocity	...									
Force	...									
Cloud	...	10	1	5	5	0	3	10	10	2
Remarks				Thunder Zeus had Very cold.	Fine & cold.	Fine & cool.		Cloudy.	Fine	Fine

February
1889

Date	15	16	17	18	19	20	21	22	23
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	74	74	69	69	67	68	68	69	69
Barometer	538	562	646	670	610	646	592	556	620
Dry Bulb	77	76	69.9	71	69	69.4	70.4	65.6	71
Wet Bulb	64	66	63.8	65.8	64	63.3	63.2	61	63
Maximum	94.2	94	84.2	84.4	85.3	81.7	86.8	82.2	
Minimum	59.1	58.5	59.3	57	58	55	59	55.9	
Rain Measure	0	4	30	0	51	0	10	35	18
Evaporation	{ Weight... Amount ...								
Direction of Wind	W	W	E	W	W	E	NW	W	W
Velocity									
Force	0	2	2	1	0	1	1	0	1
Cloud	0	1	1	1	2	1	2	10	0
Remarks	Thunder in aft with light rain	Thunder in aft with showers	Thunder in aft	Thunder in aft with heavy showers	Thunder in aft.	Thunder in aft with showers	Thunder in aft with showers Tetons all round 9 p.m.	Thunder in aft with showers after dark	Thunder in aft with showers

February			March								
1889	Date	Time	24	25	26	27	28	1	2	3	4
INSTRUMENT.			Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer	...	...	69	74	74	76	74	65	62	66	63
Barometer	...	...	600	618	628	618	598	686	606	530	562
Dry Bulb	...	...	72	75.4	75.8	81	75	63	60.9	66.5	62.3
Wet Bulb	...	...	62.1	65	67.2	68	64	61	59	62.6	60.5
Maximum	...	...	83	85.8	90.3	92	91.6	90.3	66.9	75.2	80.1
Minimum	...	...	52	57.2	58	61.2	61.6	56.9	55.5	57.1	54.8
Rain Measure	...	...	280	0	4	0	0	43	1	9	128
Evaporation	...	{ Weight ... Amount									
Direction of Wind	...	...	W	W	W	W	W	E	E	W	E
Velocity	...	...							
Force	...	...	1	1	0	1	2	2	1	0	1
Cloud	...	...	0	0	0	1	10	10	2	9	
Mean temp.	Fine		Fine	do	Fine	Fine	Thunder in aft little rain	overcast and thick	do	T storm in aft with heavy rain	Fine
max.	87.5° on last 13 days only		87.5° on last 13 days only	do	do	do	do	do	do	do	
min.	59.2° last 13 days only		59.2° last 13 days only	do	do	do	do	do	do	do	
Mean diurnal range	do		do	do	do	do	do	do	do	do	
Greatest diurnal range	do		do	do	do	do	do	do	do	do	
Greatest range	do		do	do	do	do	do	do	do	do	
Remarks	February Days rain 10 lightning 12 Mean diurnal range greatest diurnal range greatest range										
	Mean temp. max. 87.5° on last 13 days only min. 59.2° last 13 days only Cloud 3.3 dry 68.8 wet 61.3° Cloud 3.3 Humidity 62 In. of rain 2.70										
	In. of rain 7 since 1st Jan } 6.31 Winds W. 19 NW 1 E 8										

March
1889

Date	5	6	7	8	9	10	11	12	13
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
A Attached Thermometer	66	68	72	73	72	68	68	70	59
B Barometer	556	490	450	484	556	590	618	690	810
D Dry Bulb	67.5	71.8	74.5	75	74	68	69.1	71.2	59
W Wet Bulb	62	62	64.7	67	64.9	64	63.6	65	53
M Maximum	77.7	82.8	85.7	86.8	86.1	84.2	77.2	87.7	81.9
Mi Minimum	52.6	49	61.4	55	57	60.4	53.8	57.5	48.2
Ra Rain Measure	0	0	0	0	0	0	0	49	0
Eva Evaporation	{ Weight ...	{ Amount ...							
Dir Direction			E	NW	W	W	E	NW	W
Velocity									
Force	0	0	1	1	1	1	0	1	3
Cloud	0	0	0	0	0	10	0	0	1
Remarks	Remarks ...	Fine	do	do	do	Tetson on N midday	Cloudy on N midday	Cloudy show in aft with Thunder	Cloudy Fine

February

March
1889

	Date	14	15	16	17	18	19	20	21	22
	Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
	INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
A	Attached Thermometer	58		59	65	64	67	67	68	62
B	Barometer	854	718	680	702	670	660	564	576	
C	Dry Bulb	59	60.5	66.9	68	68	69.8	69	62.9	
D	Wet Bulb	55	54.6	57.6	55	59	64	60	57	
E	Maximum	68.7	74.8	79	83.8	84.8	83.5	83.5	79.7	
F	Minimum	49.8	42.7	43.1	43	52	53.2	59	41.9	
G	Rain Measure	0	0	0	0	0	0	12	0	
H	Evaporation	{ Weight								
I		{ Amount								
J	Direction of Wind	E	E	E	W	W	W	W	W	E
K	Velocity									
L	Force	3	2	1	0	0	1	1	2	1
M	Cloud	8	0	0	0	0	0	0	3	2
N	Remarks	Fine	do	do and clear	do			Thunder lightning & rain	Fine	do

March
1889 Date

	23	24	25	26	27	28	29	30	31
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	64	62	58	57	54	56	57	56	62
Barometer	640	690	716	680	706	730	692	670	650
Dry Bulb	65	59.3	57	55.8	54.5	58	60	55	63
Wet Bulb	58.8	57.1	54.8	53.4	52	55	55	53	50.5
Maximum	77.7	79	64.2	66.7	66.9	67	69.2	67.2	68.5
Minimum	50.8	52.7	52.4	47.8	43.8	48.2	47.8	48	54.8
Rain Measure	0	10	26	4	1	0	0	0	18
Evaporation	{ Weight ... Amount ...								
Direction of Wind	E	E	E	E	E	E	E	E	E
Velocity									
Force	1	1	2	2					
Cloud	3	10	10	9	10	9	9	10	10
Mean temp.	65°-4 corr	Cloudy like rain little drizzle	overcast and showery	Cloudy	Misty	Shower	Mist	Rain & cold	
max	77°-8 corr								
min	53°-1 corr								
	dry 64°-5								
	wet 59°-3 corr								
	Cloud 4.5								
	Humidity 71								
	In. of rain 3.01								
Remarks	March 1889 Days rain 11 lightning 5 Mean diurnal range 24.7 corr greatest drizzle 39.4 corr greatest range 47.0 corr	linee 1st Jan. } 9.32	Winds W. 9 NW 1 N 1	E 20					

1089 Date April		1st	2	3	4	5	6	7	8	9.
	Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
	INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
A	Attached Thermometer	62	62	63	61	61	62	64	56	52
B	Barometer	676	650	584	660	672	634	420	482	590
D	Dry Bulb	61.5	64	62	62.5	63	64	65.6	57.5	52
W	Wet Bulb	60	60	59.5	59.5	58.5	59	59	48	47
M	Maximum	70.2	73.8	73	72					
M	Minimum	48	52.8	52.2	46.2	45	49.2	56.6	46.1	40.6
R	Rain Measure	109	0	8	5	23	0	0	28	0
E	Evaporation	{ Weight...								
E		{ Amount								
L	Direction of Wind	W	W.E.	E	W	W	W	NW.	W	W
V	Velocity									
F	Force							3	3	1
C	Cloud	5	5	9	7	1	9	9	8	0
R	Remarks		Rain	Rain	Thunder storm.	Thunder no rain	Cloudy	Raining	Fine	Fine and clear

April
1889. Date

	10	11	12	13	14	15	16	17	18
	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
A Attached Thermometer	53	58	58	56	59	59	63	62	58
B Barometer	788	756	746	730	698	642	540	458	500
D Dry Bulb	52.6	57.5	56.3	56.2	56	60.4	61	57.9	54.5
V Wet Bulb	47.6	52.2	52.9	51.9	52.3	56	58	57	52
M Maximum									
M Minimum	31	42.8	45	43.8	41.7	44.6	52.7	53.6	49.3
R Rain Measure	0	0	0	0	0	4	6	39	54
E Evaporation	{ Weight ... Amount ...								
Di Direction of Wind		E	E	E	E	E	NE	NW	W
Velocity									
Force	0	1	0	1	0	1	3	0	0
Cloud	0	1	1	3	1	2	10	10	10
Re Remarks	Fine and clear.	do	do	do	Cloudy showy in aft	Cloudy showy in aft	Raining all day	Sky gradually clearing	

17
10/6/89
10/6/89
10/6/89

1889 April

	19	20	21	22	23	24	25	26	27
Date	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	57	58	62	59	59	61	64	61	60
Barometer	652	740	780	782	772	814	850	876	806
Dry Bulb	56	55.8	58.8	57	57.8	58.2	61	60.7	59
Wet Bulb	52	53.9	56.3	53	55	56.1	58	58	56.2
Maximum									
Minimum	38	45.7	50.2	47.5	46.7	51.4	53.1	48.7	45.8
Rain Measure	0	0	0	0	0	11	3	2	0
Evaporation	{ Weight ...								
Direction of Wind	#E	E	E	E	E	E	W	E	E
Velocity									
Force	1	1	2	15	1	0	0	1	1
Cloud	1	10	10	1	9	9	9	4	1
Remarks	Fine	Fine.	do	do	Cloudy light rain at night	do do in aft	Thunder in aft little rain	Fine	do light rain at night

April
1889 Date

	28	29	30	1	2	3	4	5	6
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	59	58	56	55	63	59	58	62	63
Barometer	842	860	842	800	758	748	692	594	480
Dry Bulb	55	57.6	54.6	57.4	59.2	55.8	59	55.7	58.8
Wet Bulb	53.5	55	51.7	52	54	53.9	54.6	53	58
Maximum									
Minimum	49.5	46.3	39.6	36.6	43.7	39.8	38	45.7	53.2
Rain Measure	8	0	0	0	0	0	0	0	16
F Evaporation... { Weight ... Amount ...									
I Direction of Wind ...	E	E	E	NW	NW	NW	NW	NW	NW
Velocity ...									
Force ...	3	2	2	1	1	1	1	1	0
C Cloud ...	8	6	0	2	7	7	2	10	10
R Remarks	Days rain 13 lightning 3 mean diurnal range greatest diff greatest range mean temp	max 48° 40' min 58° 3' dry 58° 3'	wet 55° 3' on do cloud 5.3	do do	do do	Cloudy	Fine	Cloudy rain at night	Cloudy showery
	in. of rain 3.00	12.32	since 1st Jan	Winds W 8 NW 2	N E 2 E 18				

1889		May	7	8	9	10	11	12	13	14	15	
		Date	Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
		INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
A	Attached Thermometer	...	57	58	58	65	60	62	62	57	52	
B	Barometer	...	57.2	59.4	57.0	55.2	60.0	63.8	46.4	54.6	84.0	
C	Dry Bulb	...	52	52.4	54.0	56	55.8	55.7	57	44	48	
D	Wet Bulb	...	57	51.4	53.8	54.6	52	47.5	55.8	42.2	46	
E	Maximum	...										
F	Minimum	...	47.7	46.8	43.8	49.8	48.7	47.4	50.3	38	37.5	
G	Rain Measure	...	10	34+	18	3	0	0	20+	91	0	
H	Evaporation	{ Weight ... Amount ...										
I	Direction of Wind	...	E	E	NW	W	W	NW	NW	W	E	
J	Velocity	...										
K	Force	...	3	2	0	1	1	1	1	0	2	
L	Cloud	...	10	10	10	7	8	5	10	8	1	
M	Remarks	...	Cloudy light rain	light rain	Cloudy light rain at sunset	Cloudy light rain at sunset	Cloudy light rain at sunset	do	do light rain at night	raining all day clear at sunset	Fine	Fine and clear

May

1889

Date ...✓...

Time

INSTRUMENT.

June St. 310

1889. Date May		25	26	27	28	29	30	31	1	2
Time	... ...	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.		Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	53	55	57	50	56	55	58	58	58
Barometer	...	602	422	144	280	392	492	582	488	324
Dry Bulb	...	49	50.8	42	45.4	50.8	50.3	53.4	52.5	50.1
Wet Bulb	...	47	50	41.4	43.2	50	48	51	51	49.7
Maximum	...									
Minimum	...	40.8	44.3	38.6	32.5	41	42	46.4	46.5	43.4
Rain Measure	...	6	32	188	25	19	2	0	0	55
Evaporation	{ Weight ... Amount ...									
Direction of Wind	...	E	E	W	W	E	E	E	E	W
Velocity	...									
Force	...	1	2	0	1	0	1	1	0	0
Cloud	...	8	10	10	1	10	0	7	10	7
Remarks	May Days rain 15 lightning	Fine rain in aft and at night	raining day and night	Cloudy rain at onset	Fine thin rain in aft.	Cloudy	clearing	Fine	Cloudy rain in aft.	Fine shower at sunset
	Min diurnal range Greatest de Greatest range Mean temp	max. min. 43.2 dry 52.1	wet 49.9 cloud 5.9 Humidity 85	Mr. of rain 4.80	In. of rain 17.12 since 1st Jan	Wind W 6 NW 10 N 1	E 14			

1889 June

Date	3	4	5	6	7	8	9	10	11	
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer	53	49	48	52	48	46	50	52	50	
Barometer	27.8	23.6	30.0	24.8	15.0	39.0	55.8	58.0	55.0	
Dry Bulb	46.2	45.2	44.3	45	41.6	44	45	47.1	43.9	
Wet Bulb	44.2	42.7	42.6	43	41	41.9	43.8	44.2	42.1	
Maximum										
Minimum	42.4	39.2	37.8	36.2	38.7	37	34.1	41	33.	
Rain Measure	12	0	0	0	89	6	0	0	0	
Evaporation	{ Weight ...									
Direction of Wind	W	SW	W	W	W	W	W	W	W	
Velocity										
Force	1	2	1	0	3	2	1	1	0	
Cloud	7	8	6	10	10	9	10	9	10	
Remarks	cold and clearing		Cloudy	Fine	Anody light rain in aft part of night 9 p.m. 25.954	Stormy	Fine	do	do	Cloudy like rain

Date	<i>June</i>										St. 3101
	12	13	14	15	16	17	18	19	20		
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	50	55	47	44	50	51	46	46	54		
Barometer	578	510	366	260	350	388	518	538	478		
Dry Bulb	48	50.7	41	38.4	47	44	40.1	38.8	50.7		
Wet Bulb	45	48	38.6	38	42.2	42.1	37.3	37	47.8		
Maximum					43.7	54.2	48.2	48.2	50.2		
Minimum	32.2	38.7	37	35	28.8	39.9	33.5	29.5	35.7		
Rain Measure	0	0	53	3-	0	32+	2	0	0		
Evaporation	{ Weight...										
Direction of Wind	W	NW	W	W	NW	W	W	W	NW		
Velocity											
Force	0	4	2	1	1	2	2	0	3		
Cloud	0	10	10	10	2	7	5	10	10		
Remarks	Fine Cloudy gale rain in aft and at night										Raining all day and half the night

1889 June

Date	21	22	23	24	25	26	27	28	29
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	54	47	45	44	43	40	44	43	47
Barometer	47.6	50.4	45.2	36.0	40.0	41.0	51.4	58.2	45.6
Dry Bulb	43.2	42.5	38.8	35.8	34.8	34.8	37.6	40.8	46
Wet Bulb	40	39.2	34.9	34.3	33.5	32.7	37	38	40
Maximum	52.5	48.8	48.5	44.3	42	42.8	44.5	47.4	51.3
Minimum	34.4	36	35	31.6	29.4	27.8	24.2	22	28.4
Rain Measure	88	0	0	0	18	0	0	0	0
Evaporation	{ Weight... Amount ...								
Direction of Wind	W	W	W	W	W	W	E	E	W
Velocity									
Force	2	1	2	2	1	2	1	0	2
Cloud	2	10	3	7	10	2	0	3	3
Remarks	Fine	do	do	Showers of rain sleet & snow. snow at night.	Fine	do	do	do	do rain in early morn.

1889

June

Date

...

Time

...

INSTRUMENT.

...

30

1

2

July

9 a.m.

9 a.m.

9 a.m.

Reading.

Reading.

Reading.

Attached Thermometer

... ...

51

40

43

Barometer

... ...

368

408

506

Dry Bulb

... ...

44

34.6

37.8

Wet Bulb

... ...

42.5

31.2

34

Maximum

... ...

51.4

45.2

42.5

Minimum

... ...

36.6

27.1

28.9

Rain Measure

... ...

14

17

0

Weight

{

Amount

... ...

Direction of Wind

... ...

NW

W

W

Velocity

... ...

Force

... ...

2

3

2

Cloud

... ...

10

1

0

rainy

Fine

do

Humidity

83

do

Mean Temp

36°.4 cm

41°.4 cm

dry

43°.5

wet

7.0

cloud

do

Humidity

83

do

Mean Temp

3.72

In. of rain

since 1st Jan

20.84

3

4

5

6

7

9 a.m.

9 a.m.

9 a.m.

9 a.m.

9 a.m.

Reading.

Reading.

Reading.

Reading.

Reading.

40

48

46

50

53

500

452

648

704

714

37

30.1

41.8

45.1

44

33.1

38.2

39.3

41

44

44.8

44.7

45.2

48.8

54

20.4

31.1

26

25.7

26

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0

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1889	July	9	10	11	12	13	14	15	16	17
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.		Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	53	52	48	49	44	48	53	48	49
Barometer	...	676	574	542	600	728	740	730	720	586
Dry Bulb	...	48.5	45.2	38.2	42	39.8	41.9	45	43.5	44.6
Wet Bulb	...	47.1	44.6	37.5	39.6	37.5	40.8	44	42.2	43.1
Maximum	...	54.9	52	51.4	47	45.4	47	52	49.2	43.5
Minimum	...	33	38.6	28.3	34.3	31.1	34.8	37.8	36.5	39.6
Rain Measure	...	0	46	8	0	0	0	0	14	24
Evaporation	{ Weight ... Amount ...									
Direction of Wind	...	NW	W	W	E	E	E	E	E	E
Velocity	...									
Force	...	2	1	0	2	2	1	2	3	4
Cloud	...	9	10	8	10	9	6	10	10	10
Remarks		Coudy showery Thunder in aft with shower 11 p.m. and rain	Thunder in aft with shower fog in morn.	Fine	Cloudy light showers	Cloudy	Fine	Cloudy showery	Cloudy showery	furious gale from E with little rain

1889 July

Date	18	19	20	21	22	23	24	25	26
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	48	53	54	56	57	57	48	53	42
Barometer	43.6	42.6	53.4	55.2	59.4	72.6	72.6	53.2	43.8
Dry Bulb	45	48	49.8	49.3	46	44.7	47.5	46.2	37.3
Wet Bulb	44	47	49	47.9	44.2	42.8	43.2	45.3	36
Maximum	46	47.9	52.8	58.2	53.4	55	53.8	55	49.2
Minimum	40	42	44.4	42	39.9	36.7	27.2	34.9	29.8
Rain Measure	29	2	1	0	0	3	0	0	34
Evaporation... { Weight...									
Evaporation... { Amount...									
Direction of Wind	E	E	E	E	E	E	NW	NW	W
Velocity									
Force	3	3	2	2	2	2	1	2	2
Cloud	10	10	9	8	8	6	0	10	10
Remarks	do do	weather clearing	Fine	Cloudy	Fine showers at sunset	Fine	Fine and clear	Stormy and showery little snow at night	Cloudy

1889 *July*

Date	27	28	29	30	31	1	2	3	4
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	48	49	52	49	46	49	49	49	50
Barometer	550	596	574	642	650	628	736	684	550
Dry Bulb	45.6	48	49.1	47	43.4	49.9	46.8	46	46
Wet Bulb	44	45.3	47	44	41	44.8	44.8	45.3	45
Maximum	45.2	54.9	57.5	58.7	56.2	58.4	58.5	55.7	48
Minimum	32.1	32.9	34	30	25	28.6	35.7	40.8	38.4
Rain Measure	0	0	0	1	0	0	0	13	11
Evaporation... { Weight...									
Amount ...									
Direction of Wind	E	E	NW	W	W	W	E	E	E
Velocity									
Force	1	2	1	1	1	1	2	3	3
Cloud	10	0	4	0	0	0	5	10	10
max.	50° 4	Cloudy	Fine	Fine and clear	Fine	do	Cloudy	Cloudy	do
min.	34° 7 cor					do	rain at	rain at	
dry	43° 9					do	sunset	sunset	
wet	42° 2 cor					do	night	night	
cloud	6.2								
Humidity	86								
mean temp.	42° 5 cor								
Remarks	July rain 12 Days lightning 2° Mean diurnal range 15.7 cor Greatest Air 27.1 cor Greatest range 36.7 cor Mean temp. 42° 5 cor	max. min. dry wet cloud Humidity	do shown exact	In of rain 1.82 since 1st Jan { 22.66	Winds W 8 NW 6	Winds W 15 SE 2	Winds W 8 NW 6	Winds W 8 NW 6	Winds W 8 NW 6

1889 *August*

Date

	5	6	7	8	9	10	11	12	13
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	49	53	52	48			46	47	45
Barometer	436	376	327	268			516	456	488
Dry Bulb	46	49.9	51	48			40.8	45	38
Wet Bulb	45.4	49	49.5	43.5			38.9	40	35.2
Maximum	46.6	50.7	54.2	59.1		55	47	49.7	52
Minimum	40.4	43.8	43	34.6		31	30.9	35	33.4
Rain Measure	2	4	10	15	0	29	0	0	0
Evaporation	{ Weight ... Amount ...								
Direction of Wind	E	E	W	W	W	W	W	W	SW
Velocity									
Force	2	1	do	1	2	3	1	3	1
Cloud	10	10	0	0	Fine rain at night	Cooling with very cold wind	7	0	3
Remarks	do	Cloudy and showery					Cloudy	Fine	do

1889. August

Date	14	15	16	17	18	19	20	21	22
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	46	44	45	48	46	48	48	57	47
Barometer	504	560	544	550	576	580	550	436	472
Dry Bulb	39	39.9	43.3	46.8	40.7	44	49	51.7	41.5
Wet Bulb	35.5	35	39.1	40	38	42.8	45.5	44	38.3
Maximum	48	49.2	52.6	52.4	53.4	57.8	53.8	58.8	59.7
Minimum	31.4	22	28.2	31.6	25.4	27.8	29.1	36.6	32
Rain Measure	0	0	0	0	4	12+	0	0	0
Evaporation	{ Weight... Amount ...								
Direction of Wind	SW	W	W	W	E	E	NW	NW	W
Velocity									
Force	1	0	2	1	1	2	1	3	1
Cloud	0	0	0	0	7	10	0	0	1
Remarks	Fine and clear do do			Fine	do rain after noon	do	do	do	do and clear
					3pm				

1889. August Date
T

St. 3101

August		1889.	Date	23	24	25	26	27	28	29	30	31
		Time	... ...	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
		INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	46	45	49	49	53	56	57	57	57	57	57
Barometer	...	620	786	844	892	904	862	806	650	528	528	528
Dry Bulb	...	42	41	44.2	47.2	46.3	57	53	54.7	52	52	52
Wet Bulb	...	38.3	38.9	42.1	44.4	43.8	48	48	50	57	57	57
Maximum	...	51.2	53	54.1	53.4	54.2	58	61	64.8	59	59	59
Minimum	...	23	29.9	35.7	36.5	35.9	38	41.6	42.2	48.1	48.1	48.1
Rain Measure	...	0	0	2	4	0	0	0	0	0	0	40
Evaporation	{ Weight...											
	{ Amount											
Direction of Wind	...	E	E	E	E	E	E	N E	N	N W	N W	N W
Velocity	...											
Force	...	2	2	2	1	1	1	2	2	2	2	2
Cloud	...	0	1	10	5	4	4	3	7	10		
Remarks	12	days rain. lightning sun diurnal range $18^{\circ}1$ cloud. do greatest range $41^{\circ}2$ Mean Temp. 45.0	max $574^{\circ}1$ min $36^{\circ}0$ cm dry 46.9	Fine do Thunder in aft showers at sunset cloud. 4.0 Humidity 80	Cloudy and showery In. of rain 1.46 In. of rain $\{ 24.12$ since 1st Jan since 1st Jan	Fine do	Cloudy. Fine	Cloudy. Fine	Cloudy rain in aft. and at night	Clearing		

September

1889.

Date
Time

INSTRUMENT.

	1	2	3	4	5	6	7	8	9
	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
Attached Thermometer	49	46	50	52	52	55	54	57	62
Barometer	54.0	59.0	61.0	65.6	67.8	64.0	65.0	62.4	57.2
Dry Bulb	44.4	39.4	46	47.3	50	53.9	52.6	57.9	63.9
Wet Bulb	40.1	35.2	41.5	44.8	46	48	47	48	52.9
Maximum	59.9	52	53	55.6	52.8	59	62.5	65.9	68.6
Minimum	36	24	27.8	36	35.4	36.7	32.2	29	45.9
Rain Measure	0	0	0	0	35-	0	0	0	0

Evaporation... { Weight...
{ Amount ...

Direction of Wind ... W NW E NE W NW E W W

Velocity

Force

Cloud

W	NW	E	NE	W	NW	E	W	W
1	1	0	2	0	1	1	1	3
1	0	1	2	1	2	0	0	0

Fine	do	do	Shows in aft.	Fine	do	do and clear	do	do
------	----	----	------------------	------	----	--------------------	----	----

Remarks

August

September
1889

Date	10	11	12	13	14	15	16	17	18
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	60	57	55	48	48	49	52	56	58
Barometer	39.6	50.0	45.2	49.0	47.6	59.6	59.6	54.8	36.6
Dry Bulb	59.8	55	57	47	42	50.1	53	57	57.5
Wet Bulb	57	50.8	43	40	39	44	45	48.1	52
Maximum	70.7	66.2	65	55.1	59.8	54.3	63	62.2	63.2
Minimum	49	41.1	41.5	25.5	35	26	29	39.4	44.8
Rain Measure	0	0	2	0	4	0	0	4	2
Evaporation	{ Weight... Amount ...								
Direction of Wind		W	E	W	W	W	W	W	NW
Velocity									
Force	4	1	1	1	1	0	1	0	2
Cloud	0	2	0	0	7	0	1	7	5
Remarks	Fine Cloudy in aft	Fine shower in mg.	Fine and clear	Fine shower at night	Fine	do	do shower after sunrise	Light shower	Cloudy Total 10 P.M.

September
1889 Date

September 1889		19	20	21	22	23	24	25	26	27
Date	... ... ...	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	56	57	53	61	56	58	55	58	60	
Barometer	364	578	564	428	466	460	594	532	430	
Dry Bulb	52	48	49.1	51.6	53.2	55	54.5	58	60	
Wet Bulb	49.5	46	47.3	49	50.7	51.1	49.5	56.3	55.5	
Maximum	68.2	57.5	60.9	56.9	59.7	65.5	65.1	67.1	68.5	
Minimum	41.5	38	41	37.5	40	43.8	39.9	41.8	50.5	
Rain Measure	24	23	0	20+	3	2	4	0	0	
Evaporation	{ Weight Amount									
Direction of Wind	W	E	E	E	E	SE	NE	NW	W	
Velocity	0	1	1	1	0	1	1	1	1	2
Force	0	1	1	1	2	2	0	4	6	
Cloud	5	8	10	7	Fine	Thunder in aft	Fine	do	Fine	
Remarks	showers with Thunder		Thunder		Rain in aft		Showers in aft		Thunder in aft with rain.	

September
1889 Date

Time

INSTRUMENT.

28

29

30

9 a.m.

9 a.m.

9 a.m.

Reading.

Reading.

Reading.

Attached Thermometer ...

60

63

53

Barometer ...

50.0

48.6

55.8

Dry Bulb ...

63

60.7

57

Wet Bulb ...

50.8

53

42.3

Maximum ...

70.6

73.8

69

Minimum ...

39.6

52.7

39

Rain Measure ...

0

1

0

Evaporation... { Weight ...

Amount ...

Direction of Wind ...

W

W

W

Velocity ...

Force ...

1

2

2

Cloud ...

0

0

0

max 62°.4

min 39.6

do

do

cloud from NW in off

rain at night

do

do

min 39.6 cm

do

do

do

dry 52°.6

do

do

do

wet 47°.5 cm

do

do

do

cloud 2.4

do

do

do

humidity 68

do

do

do

in of rain 1.24

do

do

do

mean temp.

do

do

do

Remarks

Days rain 12

Lightning 5

Max diurnal range 22°.8

Min diurnal range 35.3

Greatest range 48°.2

Greatest range 57.0

Cloud from NW in off

rain at night

do

max 62°.4

min 39.6

do

do

cloud from NW in off

rain at night

do

do

min 39.6 cm

do

do

do

dry 52°.6

do

do

do

wet 47°.5 cm

do

do

do

cloud 2.4

do

do

do

humidity 68

do

do

do

in of rain 1.24

do

do

do

October.

1

2

3

4

5

6

9 a.m.

9 a.m.

9 a.m.

9 a.m.

9 a.m.

9 a.m.

Reading.

Reading.

Reading.

Reading.

Reading.

Reading.

53

52

56

65

68

64

566

550

590

580

528

416

49.7

53.6

60

64.3

70.4

60

44

48.5

50

58

63

59

63

62.8

66

73.5

72.6

77

32.9

28.4

29.8

49.2

55.6

53.4

0

0

0

0

0

62

W

W

E

W

W

NW

W

W

W

W

W

NW

1

1

0

2

3

3

do

do

do

7

Cloudy

Cloudy

do

do

do

Thunder

2 p.m.

Thunder

do

do

do

at sunset

at sunset

followed

do

do

do

by rain

St. 3104

1889. October

1889 October

Date	16	17	18	19	20	21	22	23	24
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	57	59	60	61	59	56	57	59	58
Barometer	758	692	580	400	456	542	568	520	540
Dry Bulb	58	60	59.1	58	54.7	55.3	55.5	58.5	59.4
Wet Bulb	51.7	50.7	51	53.4	52.1	51	52.5	54	54.1
Maximum	71	75.5	75.5	73.8	70	59.2	64	66.5	72
Minimum	32.6	33.3	35.1	48.7	45.5	44.8	44.6	45.6	40
Rain Measure	0	0	0	0	5	8	5	0	0
Evaporation	{ Weight ... Amount ...								
Direction of Wind	E	W	NW	NW	E	E	E	E	E
Velocity									
Force	0	0	0	2	2	3	2	2	1
Cloud	0	0	3	10	10	10	10	4	0
Remarks	Fine	do	do	Cloudy like rain Thunder in aft.	Cloudy light rain in aft.	Cloudy do	Cloudy	Fine	do and clear

1889 October

Date	25	26	27	28	29	30	31	1	2
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	64	68	68	69	67	66	65	61	58
Barometer	588	600	620	668	740	708	634	526	412
Dry Bulb	65.5	71	68	69.2	67.2	69	64.8	59.3	55
Wet Bulb	56	62	59.3	62.8	60.1	61.4	58.8	56.2	52.3
Maximum	75	79.1	84.6	82.3	83	82.3	83.8	71.8	63.8
Minimum	38.2	50.4	48.1	52	50	47	50.9	50	44.1
Rain Measure	0	0	0	0	0	0	2	186	112
Evaporation... { Weight...									
} Amount									
Direction of Wind	W	NW	W	NW	E	E	W.	W	SE
Velocity	4								
Force	1	2	1	0	1	0	1	1	0
Cloud	1	0	5	5	7	2	7	10	10
Remarks	Fine and clear.	Fine	do lightning at night	# much cloud	do do	Thunder in aft.	T storm at noon with heavy rain Steady rain at night	Thunder rainy all day	Fine

October

Days rain 7
lightning 6
Mean diurnal range 27°.9
Greatest dr 40°.6
Greatest range 54°.6
Mean temp 57°.0
max 71°.0
min 43.1 corr

dry 59°.0
wet 53.2 corr
Wind 4.4

Humidity 67
In. of rain 1.81

In. of rain } 27.17
since 1st Jan }

Wind W. 13
NW 5
E 13

November ⁵¹⁻³¹⁰¹

31	1	2
9 a.m.	9 a.m.	9 a.m.
Reading.	Reading.	Reading.

✓

✓

November
1889. Date

	3	4	5	6	7	8	9	10	11
Date	... ...	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	57	64	68	65	65	63	62	62	65
Barometer	480	426	382	476	504	594	600	606	554
Dry Bulb	57.7	65.2	70.1	67.1	66	65.9	65.6	65.5	64.8
Wet Bulb	51.8	53.8	56.1	55.7	59.4	55	57.1	55	58.9
Maximum	69.6	72	75.1	77	77.9	77.1	78.2	76.8	78.8
Minimum	41	42.6	54.7	44.6	43.7	45.3	45.1	43.3	44.4
Rain Measure	0	0	0	0	0	0	0	0	0
Evaporation	{ Weight ... Amount ...								
Direction of Wind		NE	NW	W	W	E	E	E	NW
Velocity									
Force	0	1	2	0	0	1	1	1	1
Cloud	0	3	0	0	1	0	4	5	3
Remarks	Fine	do	do and clear,	do	do	do	Cloud forming Thunder on S. in aft.	much cloud	Cloudy Thunder in aft. with light rain

November
1889. Date

November 1889.		12	13	14	15	16	17	18	19	20
Date	Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.		Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	57	60	59	58	58	61	61	63	64
Barometer	...	52.6	43.0	58.4	55.6	53.8	54.4	59.4	63.4	62.0
Dry Bulb	...	58.6	59	59	58.8	59.9	63.6	62.8	62	65.5
Wet Bulb	...	54.7	56.2	56	55.8	55.8	56.0	57.7	60	57.6
Maximum	...	77.1	72.7	65.6	73.1	66.7	70.6	71.1	78	75.8
Minimum	...	45	49.6	48.2	48.3	42.8	42	49.2	52.5	47
Rain Measure	...	4	108	13	0	2	0	4	21	0
Evaporation	{ Weight Amount	...	...	...	...	...	...	...	...	...
Direction of Wind	...	E	NW	E	E	E	NW	NW	NW	E
Velocity
Force	...	2	1	2	2	2	1	2	2	1
Cloud	...	8	10	9	8	7	6	2	10	0
Remarks	...	Cloudy Thunder in aft. heavy rain at night	Cloudy rainning	Cloudy clearing	Clearing	Cloudy	do shower at night	do lightning in aft and night & rain at night	Fine	do

November
1889

Date	21	22	23	24	25	26	27	28	29
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	62	64	65	64	63	66	67	67	64
Barometer	560	580	510	378	364	350	326	314	308
Dry Bulb	64	67.5	68	62	64.8	66	65.5	69	65.5
Wet Bulb	56	60	59.8	58.7	58.1	59.2	61	59	55.2
Maximum	78	79	80.8	79.3	65.8	78.8	80.8	78.2	76
Minimum	44	44.5	44.2	54	45.4	48.2	52.2	46	42.8
Rain Measure	0	0	0	0	17	0	0	27	2
Evaporation	{ Weight... Amount ...								
Direction of Wind	E	E	W	NW	W	NW	W	W	SW
Velocity									
Force	1	1	1	2	1	1	1	0	0
Cloud	0	2	5	10	1	9	10	2	1
Remarks	Fine	do	do light melted ever 6.48pm full daylight	Raining Boran fine Cloudy in aft.	Cloudy Thunder at 10am	Totom Thunder all day	Thundering	Fine	

1889		Date	30	December							
		Time	9 a.m.	1	2	3	4	5	6	7	8
		INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer		64	65	72	71	69	68	71	69	65	
Barometer		384	404	430	336	454	500	506	460	522	
Dry Bulb		65	67.3	75.8	72	69.8	67	73	69.6	67.2	
Wet Bulb		57	60.1	62.7	64.6	62.1	62	65.8	62.6	62.8	
Maximum		78	80	81	91	83.5	84.6	83.2	89.8	82	
Minimum		48.2	42.3	47.7	53.6	52.3	51	49	55	53	
Rain Measure		0	0	0	42	0	0	0	28	0	
Evaporation	{ Weight										
	{ Amount										
Direction of Wind		W	W	NW	NW	E	NW	W	NW	E	
Velocity											
Force		1	1	1	3	1	1	1	2	2	
Cloud		8	4	0	2	0	8	2	9	9	
min.	48° 0' corr	Fine	Cloudy	Cloudy in aft with Thunder	Fine	do	do	do	Fine	Thundering all day.	
dry	63° 6'			Thunder 10 p.m. with rain							
wet	57° 2' corr										
cloud	4.7										
Humidity	65										
In. of rain	4.96										
In. of rain											
since 1st Jan	32.13										
Wind	NW 8										
	NE 1										
	E 10										
	SE 1										

November

Days rain 11
lightning 8
Mean diurnal range 26°.8
Greatest do 35°.0
Greatest range 38°.2
Mean temp. 61°.4
max. 74°.8

min. 48° 0' corr
dry 63° 6'
wet 57° 2' corr
cloud 4.7

Humidity 65

In. of rain 4.96

In. of rain

since 1st Jan

Wind SW 1

W 9

NW 8

NE 1

E 10

SE 1

December

1889.

Date	9	10	11	12	13	14	15	16	17
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	68	67	66	67	62	66	72	74	66
Barometer	600	616	564	476	484	440	372	338	472
Dry Bulb	70.5	68.8	66.2	66.2	63	69	72.1	74.5	66.1
Wet Bulb	62	63	61	61.3	60	62.3	65.8	64.8	60.9
Maximum	77.4	85.6	79.2	83.7	74.5	76.9	85.8	89.8	91.7
Minimum	49.4	46.7	47.2	53.1	57	45	52.7	56.4	55
Rain Measure	4+	3-	0	12	25	0	0	0	0
Evaporation	{ Weight ...								
	{ Amount ...								
Direction of Wind	NW	SE	W	NW	E	NW	W	NW	E
Velocity									
Force	1	0	1	1	1	0	0	1	2
Cloud	2	7	9	7	10	1	1	0	8
Remarks	Thunder in aft.	Thunder in aft.	Thunder in aft. light rain	Thunder in aft. light rain	Showers with Thunder all day	Fine	do	do	do
							Thunder to NW at sunset		Thunder in aft

December.

1889	Date	18	19	20	21	22	23	24	25	26
	Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
	INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	68	64	66	68	63	65	67	70	73
Barometer	...	510	478	338	282	338	492	532	552	564
Dry Bulb	...	71.1	65	68	69	61.1	67	67	72.7	76
Wet Bulb	...	64	61	61	60.9	53.5	59.7	62	59	62.5
Maximum	...	77.9	82	77.3	80.3	80.1	77.9	83.2	84	86.5
Minimum	...	51.5	53	47.3	49	38.8	45.8	50.3	46.4	52
Rain Measure	...	0	14.3	32	31	0	0	0	0	0
Evaporation	{ Weight	...								
	{ Amount	...								
Direction of Wind	...	E	E	NW	NW	W	NW	W	W	E
Velocity	...									
Force	...	1	1	2	3	1	1	1	0	1
Cloud	...	6	9	2	1	0	5	10	0	0
Remarks	...	Tetra in aft with heavy rain	Thunder in aft with rain	Fine	Fine	Fine and clear	Fine.	do	do and clear	do

December

1889

Date	27	28	29	30	31	1	2
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	74	71	71	61	62	62	
Barometer	498	454	440	510	540	606	
Dry Bulb	76.1	70.1	73.8	61	65	64.4	
Wet Bulb	61	63.6	65	56.3	57	56	
Maximum	90.8	90	79.7	89.1	74.2	77.1	
Minimum	57	58.3	49.5	49.8	42.5	44	
Rain Measure	0	3	0	11-	0	0	
Evaporation... { Weight...							
Amount							
Direction of Wind	W	W	E	E	E	E	
Velocity							
Force	2	0	0	3	3	3	
Cloud	3	10	1	9	1	0	
Remarks	max 83°.0 min 51.7 cor dry 69.1 wet 61.9 cor	Cloudy do like rain Tetons passed n S Cloud 4.4 Humidity 64	Cloudy in aft. with Thunder, " " n	Fine	do		
Days rain	11						
lightning	14°						
Mean diurnal range	31.3						
Greatest do	39°.7						
Least range	51.3						
Mean temp:	67.4						

December

Remarks

Days rain 11
 lightning 14°
 Mean diurnal range 31.3
 Greatest do 39°.7
 Least range 51.3
 Mean temp: 67.4

max 83°.0
 min 51.7 cor
 dry 69.1
 wet 61.9 cor

Cloud 4.4
 Humidity 64

m. of rain 3.34
 m. of rain } 35.47
 since 1st Jan } 35.47

Wind W. 9
 NW 11
 E 10
 SE 1

Date	8 a.m.	10 a.m.	12 p.m.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	12 m.	2 a.m.	4 a.m.
Time											
Instrument											
Attached Thermometer											
Buoyancy											
Dry Bulb											
Wet Bulb											
Maximum											
Minimum											
Rain Measure											
Preparation	Weight										
	Amount										
Direction of Wind											
Velocity											
Frost											
Cloud											
Remarks											

$$\frac{1}{25}$$

.05

.0h

$$\frac{1}{100} \cdot 20 = 0.05$$

$$.04 | .05 |$$

$$\frac{1}{20} \cdot \frac{25}{25} = \frac{1}{500} =$$

$$500 | 1.000 (.002$$

1,000,000,000,000

$$\frac{5}{100} = \frac{1}{20}$$



