

Goodleigh Station.

METEOROLOGICAL OBSERVING BOOK

For the Year 1880.

Corrections.

min. + 1.6

wet + 0.3

- dry } 0.0
max. }

Bar. - .004 in.

min (Nov 90) 0.0

500
228
428
104
276

688
222
354

January											
1890.	Date	Time	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.
INSTRUMENT.		Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer		62	64	66	72	71	73	65	61	66	
Barometer	26.	606	600	516	524	558	498	532	550	580	
Dry Bulb		64.4	67.2	69	73.3	75.8	72.6	63.7	63.9	68	
Wet Bulb		56	57.8	58.8	64.1	63	62.8	57.7	55.3	60	
Maximum		77.1	83	84	92.7	94.2	95.1	88.1	72.2	82.5	
Minimum		44	43.5	40.6	44.6	45	52.7	52	41.7	42.4	
Rain Measure		0	0	0	0	0	0	0	0	0	
Evaporation	{ Weight										
	{ Amount										
Direction of Wind		E	NE	W	E	E	W	E	E	E	
Velocity											
Force		3	1	1	0	0	2	2	2	1	
Cloud		0	0	0	0	1	4	9	0	0	
Remarks		Fine	do and clear	do cumulus forming in aft.	do do do with Thunder	Cloud forming Thunder in evg.	Cloudy Thunder 10 p.m.	Fine	do	do	

January

1890 Date

January										St. 3109
1890 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.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	67	69	62	60	64	66	66	64	61	
Barometer	510	474	394	356	490	526	532	564	614	
Dry Bulb	68.8	72	57.3	58.7	65.8	65	66.5	64	60	
Wet Bulb	60	63	56.2	57.8	63.4	63	65.7	62.2	57.1	
Maximum	86.6	89.8	82.2	62.2	71	75	80.2	73.1	67	
Minimum	43	52.3	47.7	49.1	52.7	55.3	55.5	52.8	50	
Rain Measure	0	0	102	329	441	24	19	177	26	
Evaporation	{ Weight									
	{ Amount									
Direction of Wind	NW	E	E	E	NE	NW	E	E	E	
Velocity										
Force	0	1	2	3	2	0	1	2	1	
Cloud	5	6	10	10	10	5	10	10	10	
Remarks	do	do Cloudy in aft. wind E heavy cloud rolling up from W. rain 10.30 p.m till 9 a.m	raining all day and night	showers all day and night	do	Cloudy rain at night	heavy rain all day	light rain all day	inclined to clear	

January		19	20	21	22	23	24	25	26	27
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	...	61	62	62	62	67	65	64	62	64
Barometer	...	666	694	700	676	620	622	632	678	634
Dry Bulb	...	62	64	63.5	64.6	70.8	66	66	62	65
Wet Bulb	...	58	58.2	57.3	60	65	62.6	60.1	57.5	58
Maximum	...	70.4	76	75.5	76.1	81.1	83.8	73	74	76.2
Minimum	...	47.8	45.4	43.8	42.7	50	50.7	50.6	50.2	48.1
Rain Measure	...	3	0	0	0	0	12	0	0	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind	...	E	E	E	E	E	E	E	E	E
Velocity	...									
Force	...	2	1	2	0	1	2	3	2	2
Cloud	...	6	1	0	7	4	10	10	9	5
Remarks		Fine	do	do	do	Thunder in aft with showers.	Cloudy	do	do	Fine

January

1890. Date

Time

INSTRUMENT.

Attached Thermometer ...

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain Measure

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

Direction of Wind ...

Velocity

Force

Cloud

max ...

min ...

dry ...

wet ...

Remarks ...

Days rain lightning

Mean diurnal range ...

Greatest do range ...

Greatest temp. ...

Mean temp. ...

max ...

min ...

47°.6

52°.9

64°.5

79°.3

49°.6 am

65°.9

60°.4 am

28

9 a.m.

Reading.

67

576

67.4

61.8

80

49

0

{ (Weight...
{ Amount ...

E

E

E

29

9 a.m.

Reading.

67

512

69.6

61.4

79.0

45.3

0

{ (Weight...
{ Amount ...

E

E

E

30

9 a.m.

Reading.

64

50.0

63

60.7

74.5

48.2

0

{ (Weight...
{ Amount ...

E

E

E

31

9 a.m.

Reading.

62

450

60.6

63.7

60

73.8

48.8

{ (Weight...
{ Amount ...

E

E

E

1

9 a.m.

Reading.

61

390

63.7

63

73.8

47.6

{ (Weight...
{ Amount ...

E

E

E

2

9 a.m.

Reading.

63

430

68

67

70

58

{ (Weight...
{ Amount ...

E

E

E

3

9 a.m.

Reading.

68

600

62

59

71.2

51.8

{ (Weight...
{ Amount ...

E

E

E

4

9 a.m.

Reading.

63

662

59

55.2

73.8

45.2

{ (Weight...
{ Amount ...

E

E

E

5

9 a.m.

Reading.

60

60

59

55.2

73.8

do

{ (Weight...
{ Amount ...

E

E

E

1890 January

Days rain lightning

Mean diurnal range

Greatest do range

Greatest temp.

Mean temp. max

min

47°.6

52°.9

64°.5

79°.3

49°.6 am

65°.9

60°.4 am

Fine

do

Cloudy

Cloudy

Cloudy

Cloudy

Cloud

Humidity

70

7.36

W 2

NW 2

NE 2

Winds

W 2

Cloud

Humidity

70

7.36

W 2

NW 2

NE 2

Winds

W 2

February

1890

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	61	60	63	66	65	66	66	66	66
Barometer	588	454	356	354	426	506	516	440	
Dry Bulb	61	61	65	66.1	66.1	67	67.3	66.3	
Wet Bulb	59	57	59	62	61	63.5	62	61.8	
Maximum	71.9	73.5	78	80.7	77	78	78.8	78.6	71.1
Minimum	45.4	44.5	42.5	47	47.5	50.8	46.3	50.4	46.2
Rain Measure	7	0	0	0	76	1	0	4	38-
Evaporation	{ Weight								
	{ Amount								
Direction of Wind	E	E	W	W	W	E	NE	NW	NW
Velocity									
Force	1	1	1	1	0	1	1	2	1
Cloud	10	5	8	10	2	10	3	10	3
Remarks	Fine	do	do	T storm at 2pm	Cloudy	do	Fine	Rain in forenoon	Fine

February 1890	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	...	68	68	63	60	60	62	60	62	65
Barometer	...	476	436	506	628	538	460	406	410	308
Dry Bulb	...	67.5	67.5	61	57.9	58.5	62	58.3	61.1	64.7
Wet Bulb	...	64.9	64	60	56.2	57.8	60.7	57.4	60	62.9
Maximum	...	80.2	81.9	72.5	67	59.8	64.5	72	67	68.8
Minimum	...	51.1	54	50.1	50.9	47.3	49.4	47.2	49	52.6
Rain Measure	...	0	29+	63	1	80+	54	15	37	79

Evaporation { Weight...
 { Amount ...

Direction of Wind ... NW NW E E E E E E NW

Velocity ...

Force ... 0 1 1 2 1 0 1 1 1 2

Cloud ... 10 10 10 10 10 10 10 10 10 10

Cloudy
Totoms
at mid
night
Thunder
all day
with light
rain
heavy at
night

Cloudy
Thunder
in aft

Raining
all day
and
all night

Raining
all day

Cloudy
rain
in mg.
of 21st

Raining
all day

Raining
all day
heavy
at night

Clearing.

Remarks ...

1890. February

1890 March

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	60	62	62	60	63	63	69	66	65
Barometer	602	550	502	460	432	412	494	520	550
Dry Bulb	61	63	61.5	58.1	62.5	62.7	70.7	65.8	65.4
Wet Bulb	58	60.5	60.5	57.5	61	61.2	67.8	64	63
Maximum	73.8	72.1	70.4	69.4	64.7	70	71.8	76	69.9
Minimum	41	48	51.9	49.1	49.3	51.8	55	57	53.9
Rain Measure	10	0	18	42	19	8	43	23	21
Evaporation... { Weight ...									
Evaporation... { Amount ...									
Direction of Wind	E	E	E	E	E	E	NE	NW	E
Velocity									
Force	1	3	2	3	3	3	3	2	2
Cloud	2	9	10	10	10	10	10	10	9
Remarks...	Fine	raining all day	light rain all day	do	misty showers all day	do	showery wind NET NW	thick and showery	clearing? light rain at night

1890	March	14	15	16	17	18	19	20	21	22
	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.
Attached Thermometer	...	61	60	60	62	60	64	65	66	65
Barometer	...	640	684	644	540	508	500	556	650	640
Dry Bulb	...	61	59.9	60.6	64	59	65	66.8	65.5	66
Wet Bulb	...	60	59	57.8	61	55.4	63	62	63	63.2
Maximum	...	70.1	70	70.1	75	76.4	75.8	77.9	78.5	77
Minimum	...	48.6	47.5	42.9	41	41	45	45.9	49	47.2
Rain Measure	...	14	7	0	0	0	0	6	0	0
Evaporation	{ Weight...									
	{ Amount									
Direction of Wind	...	E	E	NE	E	E	W	E	E	E
Velocity	...									
Force	...	1	3	6	1	1	1	0	1	1
Cloud	...	10	10	9	1	6	3	1	3	10
Remarks	...	clearing	do	Fine	do	do	do	Fine	do	Cloudy showers in aft
						cloud forming in aft. shown at sunset				

1890 March Date
Time

1890 March										St. 3105
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	61	62	65	60	58	56	59	61
Barometer	...	630	574	510	528	482	546	702	740	700
Dry Bulb	...	61.2	59	60	63.3	57.1	56.5	57	59	62.1
Wet Bulb	...	59.8	57	58	62.9	56	55	54.8	56.7	59.9
Maximum	...	73.2	64	63.7	72	68.3	58.2	62.2	66.7	71.7
Minimum	...	50.9	47.8	49	49.7	47.3	47.8	42.2	41.8	42
Rain Measure	...	7+	2	51	18	227	70	0	0	0
Evaporation	{ Weight ...									
	{ Amount ...									
Direction of Wind	...	W	E	NW	NW	E	E	E	E	NE
Velocity	...									
Force	...	0	1	1	1	2	30	2	1	1
Cloud	...	10	10	9	10	10	10	8	6	7
Remarks	20 days rain. lightning 0 sun diurnal range: 22°.0 greatest do 33°.8 greatest range: 35°.9 mean temp.: 60°.2	max. 71°.2 min. 49°.2 over dry 62.3 wet. 60°.4 over	Cloudy misty. rain in aft fr. E	Cloudy rain at sunrise all night.	Fine rain at sunrise	heavy rain all day-heavily at night	raining all day.	Cloudy	Fine	do
	max. 71°.2 min. 49°.2 over dry 62.3 wet. 60°.4 over	Cloud Humidity 8.8	m. of rain 6.64 m. of rain } 20.35 since 1st Jan }	Wind W 2. NW 4. N 2.3. E 22						

1890 April

Date	1	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.
Attached Thermometer	64	63	59	57	56	59	59	57	59
Barometer	740	716	756	756	722	668	610	580	490
Dry Bulb	62.2	63	56.9	56.1	56	59.9	57.9	58.9	60
Wet Bulb	60.6	60.6	55	55.2	55	56.7	56	55.5	56.7
Maximum	71.7	72.8	71	66.3	65.9	66.9	65.9	69.6	69.9
Minimum	51.5	45.1	42.7	43	40	41.5	38	33.5	40.4
Rain Measure	80	0	3	0	0	0	0	0	0
Evaporation	{ Weight...								
	{ Amount ...								
Direction of Wind	W	E	E	E	E	E	E	W	W
Velocity	0	0	2	2	2	1	1	1	1
Force	0	0	2	2	2	1	1	1	1
Cloud	4	7	4	9	8	6	1	2	1
Remarks	Fine	Cloudy Tetron towards sunrise	Fine	do	do	do	do	do	rain in early mg.

1890 April Date
Time

1890 Date April

	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	56	55	54	55	57	58	57	57	56
Barometer	772	750	724	732	704	646	638	698	558
Dry Bulb	55.9	56.5	57.6	55	56.7	56	56.1	56.7	57
Wet Bulb	54	53.5	52.3	53.6	54	55	54.8	55.1	55
Maximum	61.7	66.1	66.9	65.9	68.3	65	64.9	68	66.8
Minimum	35	29.7	29.6	32.4	37.7	44	36.8	39.4	35
Rain Measure	0	0	0	0	15+	2+	0	0	0
Evaporation... { Weight...									
{ Amount...									
Direction of Wind	E	E	E	E	E	E	E	E	E
Velocity									
Force	0	0	0	1	1	1	1	1	1
Cloud	0	0	0	0	1	10	1	8	0
Remarks	Fine	do	do	do	Fine	Fine	do	do	do
				Thunder 15 p.m. with thunders	shower in early mng.				

April 1890.

Days rain lightning

Mun diurnal range

greatest do ... $34^{\circ} 8'$ $1^{\circ} 3^{\circ} 5'$

greatest range
of variation

mean temp.: 52.4 mark: 65° b

mark.

39°. 3°
55°. 8°
mm.
dry

~~Wet~~

over
cloud

Humidity

In - y rain 3 . 35

Mr. 1st rain } 23.70
since 05 Jan.

116

Winds W 4 S 23

二

see 3

short
here
at

مکالمہ

100

卷之三

1890. Date April

1890. Date April May.

St. 3104

Date		May	16	17	18	19	20	21	22	23	24	St. 3105
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.	
Attached Thermometer	...	56	56	52	54	52	54	54	57	57	57	
Barometer	...	67.6	47.8	43.0	45.8	55.2	59.6	64.2	66.0	61.2		
Dry Bulb	...	52.2	50.2	45	44	48.7	49	52	49.6	46.9		
Wet Bulb	...	48.8	49.2	43	43.6	46	46.8	48.8	49.1	46.5		
Maximum	...	57.8	60.6	57.9	50.9	50.5	55.1	59.1	58.5	59		
Minimum	...	35.1	35.6	34	34.8	28.4	33.6	28.6	37.5	37.1		
Rain Measure	...	0	6+	26-	9	0	0	0	20	50		
Evaporation	{ Weight ... Amount ...											
Direction of Wind		NW	NW	W	W	E	E	W	NE	W		
Velocity	...											
Force	...	1	2	3	2	3	0	1	0	0	0	
Cloud	...	10	10	9	10	1	4	2	10	10	10	
Remarks	do light rain 7 a.m.		showery	do with gale	cloudy	Fine	do	do rain at 8 am	Cloudy T storm in early mng.	Cloudy and showery		

1890. Date May

1890. June

Date	1	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.
Attached Thermometer	58	57	58	54	57	57	53	53	57
Barometer	784	718	716	710	702	692	660	610	590
Dry Bulb	52	54.4	52.8	51	54.5	50	53.5	49	50.8
Wet Bulb	51	52.2	52.1	49.9	51.9	48.8	50.2	47.7	50
Maximum	58.1	57.8	61.0	60.7	64	63.7	60.8	60.5	57.6
Minimum	39.4	39.1	40	32.6	36	31	27.9	29.4	40
Rain Measure	0	0	4	0	0	0	0	0	0
Evaporation... { Weight...									
Evaporation... { Amount...									
Direction of Wind	E	E	E	E	E	E	NW	SE	E
Velocity									
Force	2	1	1	0	0	0	1	1	1
Cloud	10	7	8	0	0	9	0	2	10
Remarks...	Candy	Fine shower after sunset	Fine	do	do	do	Cloudy	ds	ds

1890 Date	June	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.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	56	54	57	57	49	47	47	46	47	47
Barometer	474	398	396	388	410	524	518	436	494	
Dry Bulb	52.5	57	47.1	52	44.4	44.3	40.6	41.9	41.8	
Wet Bulb	50.8	49.3	45	51.1	42.5	41.8	39	38.5	40.7	
Maximum	60	59	56.8	53	53.8	49.2	50	45.6	50	
Minimum	35.6	36.8	31	34	33	30.3	22.4	29	28.1	
Rain Measure	1	0	44	37	63	0	0	0	6	
Evaporation	{ Weight ...									
	{ Amount ...									
Direction of Wind	NW	W	W	NW	W	W	W	W	W	W
Velocity										
Force	0	1	0	1	2	3	1	2	1	
Cloud	10	8	1	10	8	3	9	10	10	
Remarks	Cloudy rain in aft	do rain	Fine Cloud forming from W toward N rain in aft	Raining all day and at night	Cloudy clearing	Fine	Cloudy	Fine rain at night	Fine	

1890. Date June

June. 1890

E

Remarks.

June 109

14^o in my room
Remarks...
Days rain
lightning
Mun dinner range
Greatest do
Greatest range:
Mean temp ...

1890	July	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.
Attached Thermometer	...	47	44	41	42	39	42	43	41	45
Barometer	...	374	352	344	416	418	450	562	650	602
Dry Bulb	...	41.9	37.6	35.3	33	32	35.3	36.7	34	37
Wet Bulb	...	37.5	36.1	32.5	31.3	29.5	34.1	32.8	30.8	33.4
Maximum	...	47.2	49.6	44.1	42.3	41.6	37	41.2	46.6	48.1
Minimum	...	26.3	26.9	24.5	22.7	13.8	20.4	17.1	13.8	15
Rain Measure	...	0	27	18	10	0	0	0	0	0
Evaporation	{ Weight Amount									
Direction of Wind	...	NW	W	W	W	W	W	W	E	W
Velocity	...									
Force	...	4	3	3	1	1	1	1	0	0
Cloud	...	10	6	9	10	1	10	2	0	0
Remarks	...	Cloudy heavy gale rain at night with Thunder	Fine and cold	do do snow at night	clearing very cold	Cloudy and cold	overcast	Fine	Fine and clear	do do wind E in 80° sharp at

July

1890

Date

	16	17	18	19 9 a.m.	20	21	22	23	24
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	44	45	48	48	52	55	56	47	46
Barometer	634	578	620	624	564	482	426	484	474
Dry Bulb	37.2	38	41	41.5	44	52	51	44	40
Wet Bulb	35	37	39.8	40	43	50	49.9	40	38
Maximum	48	45.5	46	48.3	46.6	52	58.7	53.5	51
Minimum	23.8	26.5	28	29.5					
Rain Measure	2	4	2	3	11	10	47	0	0
Evaporation... { Weight...									
Amount ...									
Direction of Wind	E	E	E	E	E	NW	NW	W	W
Velocity									
Force	3	1	2	3	1	2	2	2	1
Cloud	9	10	3	10	10	10	10	0	10
Remarks...	Cloudy	do	do	do and showy	do	Fine	Fine	do	do
					Storm with rain & hail at about 4 p.m.				

1890 Date July

	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.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer	44	45	50	53	50	51	55	
Barometer	46.4	45.8	46.4	53.2	57.4	60.8	47.8	
Dry Bulb	38	36.6	41	45	42.1	45.3	49.8	
Wet Bulb	35.9	35	40	43.1	40.9	43.6	46	
Maximum	48.9	48.9	43.5	46.1	50	53.6	57	
Minimum								
Rain Measure	0	2	9	4	9	0	0	
Evaporation	{ Weight...							
	{ Amount							
Direction of Wind	W	W	W	E	E	E	NW	
Velocity								
Force	0	1	0	2	1	2	2	
Cloud	10	10	10	10	10	9	10	
max.	47.8	Fine showery in aft	Cloudy and showery	do	do	Fine	Cloudy	
min.	40.3			do				
dry		38.4 cor						
unit		7.4						
cloud		84						
Humidity								
max. rain	2.01							
min. rain								
mean temp.								
Remarks	18	2						
July 1890								
Days rain								
Lightning								
Mean diurnal range:								
Greatest diurnal range:								
Mean temp.:								

July 1890
Days rain: 18
Lightning: 2
Mean diurnal range:
Greatest diurnal range:
Mean temp.:

max. 47.8

min. 40.3

dry 38.4 cor

unit 7.4

cloud 84

Humidity 2.01

Wind W 16

NW 5

E 10

Max. rain 32.21
Min. rain 1.50

1890 August

Date	1	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.
Attached Thermometer	52	47	47	49	49	48	49	43	43
Barometer	300	222	368	538	564	566	458	560	592
Dry Bulb	46	38.5	39	41	40.9	44	41	35.9	42.9
Wet Bulb	44.3	37.6	37	39	39.9	42	40	33	36.1
Maximum	53.1	49.5	47	47	49.2	47.1	54.9	48.2	49.2
Minimum									
Rain Measure	23	0	15	7	13	0	10	28	0
Evaporation	{ Weight...								
	{ Amount								
Direction of Wind	W	W	SE	E	E	E	W	W	W
Velocity									
Force	2	1	1	2	2	0	1	0	1
Cloud	10	10	10	8	10	0	10	0	0
Remarks	Fine	Cloudy and showery	do	do	do	do	stormy wind went back to W rain incessantly mg.	Fine and clear	do do

1890	August	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.
			INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer		...	47		47	54	50	46	46	52	47
Barometer	49.4		50.4	49.2	49.8	45.4	48.8	55.0	56.8
Dry Bulb	46		46.4	53.2	48	41	40	42.8	44.1
Wet Bulb	40.1		37.9	46	41	37.1	36.8	39.9	40
Maximum	51.9		52.8	55.2	57.6	54.2	51.2	49.3	51.9
Minimum									
Rain Measure	0	0	0	2	0	0	0	0	0

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

Direction of Wind ... W W NW W W W W W W W

Velocity ...

Force ... 3 1 1 2 2 2 1 1 1

Cloud ... 0 0 5 0 0 1 2 2 1

Fine Fine Cloudy
and like
rain clear
gale
from W

Remarks...

August
1890

Date	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	48	48	49	51	57	50	56	58	55
Barometer	552	626	686	674	640	596	584	510	438
Dry Bulb	45.5	43	42	42.5	45.1	48	51.2	54	48.8
Wet Bulb	41	39.5	40	41	43	44.8	47.1	49	47.6
Maximum	53.9	53.8	55	54.9	54.9	57.3	57.4	60.9	61.9
Minimum									
Rain Measure	0	0	0	0	0	0	0	0	35+
Evaporation	{ Weight... Amount ...								
Direction of Wind		W	NW	E	E	E	NW	NW	NW
Velocity									
Force	2	1	1	1	1	1	2	3	2
Cloud	1	0	10	10	2	1	1	2	10
Remarks	Fine	do and clear	Fine	do	do	do	do	do rain after midnight	Storm 9 a.m. clouded to fine

August
1890.

Date	28	29	30	31	1	2	3	4	5
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	56	57	57	56	56	57	56
Barometer	462	592	640	600	646	732	726	708	
Dry Bulb	49.2	50.1	57.6	50.8	45	52	49.7	51.2	
Wet Bulb	43.9	44.8	48.4	49	40	49.1	47.9	49.1	
Maximum	57.7	56.8	58.8	65.8	58.8	63.3	60.6	61.9	
Minimum									
Rain Measure	15	0	0	20	0	0	0	0	0
Evaporation	{ Weight...								
	{ Amount								
Direction of Wind	W	NW	NW	W	E	E	E	E	E
Velocity									
Force	2	1	2	2	0	0	1	1	1
Cloud	1	0	0	10	1	0	1	9	1
Remarks	Days rain 10 lightning 4 Mean diurnal range Greatest dr Greatest range	mean temp. max. 53°.9 min.	dry 45°.3 west 41°.9 cloud 3.8	humidity 75 in. of rain 1.68	do Thunder to S at night with hail	Fine do	do	Cloudy fog at night	Fine Cloudy light rain 9 p.m.
	since 1st Jan { 33.89								
	Wind W 15 NW 96 E 6								
	SE 1								

August 1890

Days rain 10
lightning 4
Mean diurnal range
Greatest dr
Greatest range

mean temp.
max. 53°.9
min.

dry 45°.3
west 41°.9
cloud 3.8

humidity 75
in. of rain 1.68

since 1st Jan { 33.89

Wind W 15
NW 96
E 6

SE 1

1890		Date	September	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.	9 a.m.
INSTRUMENT.		Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	...	56	55	48	48	49	53	61	60	64		
Barometer	...	59.4	43.4	39.8	56.0	61.0	63.4	62.2	54.6	43.2		
Dry Bulb	...	52	50.8	40	43	50	54	52	61	63		
Wet Bulb	...	48	49	37.7	39	43.3	44	51.1	54.8	57.1		
Maximum	...	63.5	56.2	50.9	51	57	59	65.8	62.2	69.8		
Minimum	...											
Rain Measure	...	3 -	20 +	4	0	0	0	9	0	0		
Evaporation	{ Weight...											
	{ Amount											
Direction of Wind	...	NW	NW	W	E	NW	W	W	W	NW		
Velocity	...											
Force	...	1	2	2	0	1	1	P				
Cloud	...	10	10	1	0	0	0	10	0	6		
Remarks	...	showery	Cloudy Showers at night	Frost Fine	Fine and clear	do	do	Cloudy	Fine and clear	Cloudy rain after onset		
							do showers in early mng.					

St. 8104

1890

September

1890

Date	September							October	
Time	24	25	26.	27	28	29	30.	1	2
INSTRUMENT.	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	59	58	58	59	60	53	53	55	53
Barometer	450	458	558	486	294	342	458	384	494
Dry Bulb	57.8	55.3	57.7	59.6	56.5	50	52.2	52.8	52
Wet Bulb	53	57.1	52.8	53.1	49	44	46.7	44	45
Maximum	64.2	67.8	66	67	71	62	59.8	66	62.5
Minimum									
Rain Measure	0	66	0	0	12	40	0	0	0
Evaporation	{ Weight... Amount ...								
Direction of Wind	E	E	W	NW	W	W	W	W	W
Velocity									
Force	1	1	1	2	3	3	0	1	
Cloud	0	0	2	0	2	9	0	0	1
	Fine	Fine	do	do	Fine	do	do	do	do
	Thunder to Ein aft heavy rain at night			shower at night	shower at night		and clear	do	do
max.	61°.8								
min.									
dry	52.2								
wet	50°.0 cm.								
- Cloud	3.7								
Humidity	85								
hrs of rain	2:43								
A. P. rain	{ 36.32								
since last rain									
Winds	W 15								
	NW 6								
	E 9								

September 1890

Days rain 10
 lightning 1
 Mean diurnal range
 Greatest dry:
 Greatest range:
 Mean temp:

max. 61°.8

min.

dry 52.2

wet 50°.0 cm.

Cloud 3.7

Humidity 85

hrs of rain 2:43

A. P. rain { 36.32

since last rain

Winds W 15

NW 6

E 9

St. 3108

1890 *October*

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	55	57	62	67	64	62	53	52	56
Barometer	522	530	508	432	444	334	482	506	500
Dry Bulb	55.3	58.2	64.8	65.8	65.2	59.6	49.2	53	55.5
Wet Bulb	48	49.8	53.6	59.3	56.1	55.9	43	45.5	47
Maximum	65.5	65.5	71	74.2	76.8	74.8	69	61.9	64.4
Minimum									
Rain Measure	0	0	0	0	0	2	13	0	0
Evaporation	{ Weight...								
	{ Amount								
Direction of Wind	W	W	W	W	E	NW	W	W	W
Velocity									
Force	1	1	1	3	1	3	1	2	1
Cloud	0	0	1	1	0	8	0	0	8
	Fine and clear	do	do	do	do	Thunder in aft with rain	Fine and clear	do	Cloudy little rain in aft. wind
Remarks									Tidom at night

1890. October

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	60	64	66	58	52	57	59	64	
Barometer	284	332	454	402	300	532	642	700	638	
Dry Bulb	58	58.5	67	67.5	56.4	50	53.5	59.4	64.9	
Wet Bulb	57	52.1	57	61	47.4	44.4	46.8	51.6	56.1	
Maximum	68.9	65.2	68.1	76.1	74.2	63	64.8	68.8	72	
Minimum										
Rain Measure	173	19	0	18	111	1	0	0	0	
Evaporation	{ Weight... Amount ...									
Direction of Wind		W	W	NW	NW	W	E	W	W	
Velocity										
Force	2	2	3	3	2	1	1	2	2	
Cloud	10	2	0	1	0	0	0	0	0	
Remarks	Stormy Tetonic in aft with heavy showers.		Fine and clear in front of Tetonic with rain 4 p.m.		light Tetonic in front heavy rain 5 p.m. with torrential rain		Fine showers do do		do do do do	

1890.

October

Date	30	31	Nov 1	2	3	4	5	6	7
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	66	64	65	65	66	62	58	59	63
Barometer	52.8	64.4	66.8	73.0	73.2	74.4	71.8	67.8	64.0
Dry Bulb	66	63.4	66.2	67.5	68	63	59.5	60	64
Wet Bulb	57.5	57.9	59.4	58.4	58.9	57.2	54.1	54	57
Maximum	75	74	74.0	78.2	77.6	80.5	74	69.5	76.8
Minimum				50	49.8	47.2	42	35.9	44.8
Rain Measure	0	0	0	0	0	0	0	0	0
Evaporation... { Weight...									
Amount ...									
Direction of Wind	W	E	E	E	E	E	E	W	W
Velocity									
Force	2	1	1	1	1	2	2	0	
Cloud	0	1	1	0	0	5	3	1	1
	Fine.	do	do	do	do	do	do	do	do
max.	69.3								
min.	59.1								
dry	51.8								
wet	2.0								
cloud									
mean									
Humidity	60.								
In. of rain	5.48								
h. of rain	{ 41.80								
since 1 Octm									
Winds	W. 22								
	NW 6								
	E 3								

Oct

1890
Days sun 11
lightning 8Mean diurnal range:
Greatest do
Greatest range
Greatest temp.
Mean

max.

min.

dry

wet

cloud

Humidity

In. of rain 5.48

h. of rain { 41.80

since 1 Octm

Winds W. 22

NW 6

E 3

1890.

November

St. 3101

Date	8	9	10	11	12	13	14	15	16
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	67	68	65	61	67	67	62	58	64
Barometer	56.2	42.0	41.4	45.6	46.2	22.2	36.8	43.2	
Dry Bulb	69	69.1	67	61.8	68	60.5	58.8	65.7	
Wet Bulb	60.9	60	60	56	62	56.2	49.9	57.2	
Maximum	78	79.8	80	77.2	78.4	78	77.5	69	71.8
Minimum	47	53	47.8	44.4	44.3	51	55.2	35.8	46.5
Rain Measure	0	0	0	0	0	0	308	0	0
Evaporation	{ Weight								
	{ Amount								
Direction of Wind	NW	W	NW	W	W	W	W	W	NW
Velocity									
Force	0	1	1	1	1	1	3	2	1
Cloud	0	4	5	3	2	10	5	0	6
Remarks	Fine.	Fine	Cloudy Thunder round	Fine	do	Cloudy storms with heavy rain from 5 p.m till next night	Clearing	Fine and clear	Fine

1890

November

Date	17	18	19	20	21	22	23	24	25
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	58	54	58	60	57	61	65	63
Barometer	428	436	246	344	444	476	490	380	218
Dry Bulb	62	58	54.6	58	59.5	59.8	62.1	66.4	65
Wet Bulb	57.4	52.2	50	55	54.8	57	55.6	61.8	56
Maximum	74.7	77.2	67	62	73.2	69.2	73	75.2	72.1
Minimum	46	45.4	39.3	49.2	48.8	46.5	45	50.1	54.2
Rain Measure	0	0	1	0	14	28+	0	0	4
Evaporation... { Weight...									
{ Amount ...									
Direction of Wind	E	E	W	W	NW	E	NW	NW	W
Velocity									
Force	0	1	3	1	1	1	1	2	3
Cloud	7	9	9	6	3	7	6	8	2
Remarks	Cloudy threatening showers in aft rain	Cloudy shower like rain	Cloudy shower at sunrise	Tetomes during day with rain	Clearing	Fine	Cloudy light showers	heavy gale with cloud	Thunder at sunset

1890

Date

Time

INSTRUMENT.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain Measure

Evaporation

Direction of Wind

Velocity

Force

Cloud

Remarks

Days rain

lightning

Mean diurnal range

35°.2

Greatest do

35°.2

Greatest range

47°.1

Mean Temp.

60°.0

max.

74°.4

min.

45°.6

dry

62°.7

wet

56°.5 on

Cloud

3.6

Humidity

66.

In. of rain

3.55

do

1890.

December

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	59	60	61	66	62	61	62		68
Barometer	704	650	620	618	650	572	516		468
Dry Bulb	60	60.5	64	67.4	62	62.7	65.8		76.2
Wet Bulb	56.1	55	57.8	62	58.5	57.5	57.2		64
Maximum	74	68.8	73	80.2	80.8	75	81		85.7
Minimum	46.9	51	39.8	52	52.3	43.2	48.8		47
Rain Measure	4	0	0	0	80	0	0	0	41
Evaporation	{ Weight								
	{ Amount								
Direction of Wind	E	E	W	W	E	E	E	W	W
Velocity									
Force	1	3	0	1	2	0	1	1	1
Cloud	10	10	2	4	10	2	5		0
Remarks	Cloudy like rain	do	Fine	Cloudy Thunder in aft. with little rain	Fine	Fine	Fine	Fine	do Thunder with little rain 6 p.m.

1890

December

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	68	65	62	59	59	66	64	70	69
Barometer	470	414	416	406	390	424	490	468	372
Dry Bulb	69.9	67.9	65	58.5	61	69	67.7	75.6	68
Wet Bulb	61.8	64	59	55.4	57.8	65	58.8	69	66
Maximum	85.3	85	72.9	73.6	75	76.8	84.6	86.6	92.1
Minimum	50.9	48.8	48.9	45.5	43.6	52.4	42.5	49	57.9
Rain Measure	10	6-	3	43	0	0	0	0	20+

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

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

Velocity ...

Force ... 0 1 1 1 2 3 0 2 3

Cloud ... 0 8 5 9 10 1 0 1 10

Fine	Thunder all round	Thunder all round	Cloudy	Fine.	do	Fine and clear.	Fine	heavy rain
Thunder in aft.	all afternoon	afternoon with rain	Thunder in aft.				Thunder 7 p.m.	followed by rain
rain at forenoon								
night								

Remarks ...

December 1 1890.
Ren

Days rain	12	
lightning	12	
Mean diurnal range	$30^{\circ}.2$	
Greatest do	$42^{\circ}.1$	
Greatest range	$54^{\circ}.7$	

1891	Date	January							
	Time	1	2	3	4	5	6	7	8	9
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	64	70	70	74	74	69			
Barometer	530	456	428	546	526	530			
Dry Bulb	66.5	73	77.1	76.9	72	66.7			
Wet Bulb	54	56	59.9	65.9	65.6	62.3			
Maximum	80	85.1	86.9	92	91.1	87.9			
Minimum	39.7	46.3	46	59.8	61.5	64			
Rain Measure	0	0	0	0	0	0			
Evaporation	{ Weight...								
	{ Amount								
Direction of Wind	W	NW	W	NW	NW	NW			
Velocity									
Force	D	2	0	1	2	3			
Cloud	0	0	0	0	8	10			
Remarks	Fine and clear	do	do	do	Cloudy				
		do	do	do					



