

The image shows the front cover of an old book. The cover is decorated with a marbled paper pattern featuring large, irregular, cell-like shapes in shades of brown, tan, and blue. A vertical strip of reddish-brown material, likely leather or cloth, forms the spine on the left side. In the center of the cover, there is a rectangular, light-colored paper label with a thin black border. The label contains the handwritten number '1877-8' in brown ink above the printed title 'METEOROLOGICAL OBSERVING BOOK.' in black, all-caps serif font.

1877-8
METEOROLOGICAL OBSERVING BOOK.

1854

Mr Bellfield

1877.

Date <i>June</i> ...		25 th	26 th	27 th	28 th	29 th	30 th	July 1 st	2 nd	3 rd
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°	51°	47.5	45.	44.7	48.7	52	51	52
Barometer ...		26.656	26.656	26.570	.625	.768	.874	.912	.931	.956
Dry Bulb ...			47° 8	44	39.5	41	43.9	46	46.3	48
Wet Bulb ...			45° 9	39.8	36.5	38	42.3	44	45.2	46
Maximum ...				57.7	50.8	47.8	52	52.7	56	54.3
Minimum ...			36°	39.	31.2	27.3	36.1	40.8	41.3	43
Rain ... { Weight ...		0	0		0	0	0	0	drizzle at night	drizzle at night
Rain ... { Measure ...										
Evaporation ... { Weight ...										
Evaporation ... { Amount ...										
Direction of Wind ...		W.	N.W.	W	WSW	E	E N E	E	E N E	E N E
Velocity ...										
Force ...		0	2	2	1	2	3	3	2	3
Cloud ...		circus .1	stratus .6	0	stratus .3	0	.5	10	.9	.9
							cirro-stratus	stratus	nimbus	nimbus
Remarks ...		fine day wind W. bar. falling.			bar. rising rapidly	bar. rising			cleared off fine day	
Bar: corrected for I. S. and to 32° F. mean for 5 days of June .650			26.592	.523	.584	.729	.821	.851	.873	.895

1877.	Date <i>July</i>	<i>13th</i>	<i>14th</i>	<i>15th</i>	<i>16th</i>	<i>17th</i>	<i>18th</i>	<i>19th</i>	<i>20th</i>	<i>21st</i>
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	...	51	50	47	51	54	47	45	44	51.
Barometer	...	.618	.509	.220	.345	.321	.286	.330	.468	.608
Dry Bulb	...	46	43	41.3	42	46.8	43	39	37.7	42.5
Wet Bulb	...	44.9	42	40.8	41.3	45	39.8	36.5	36.5	41
Maximum	...	49	45.3	48	57.3	53.5	49	49.5	44	42.8
Minimum	...	41	33	37.5	37.8	41.3	35.3	35.2	34.4	36.5
Rain	{ Weight									
	{ Measure									
Evaporation	{ Weight						0	0		
	{ Amount									
Direction of Wind	...	E	W	WNW	S	W	W	W	W	SE
Velocity	...	0	0	2	0	1	2	2	1	0
Force	...	0	0	2	0	1	2	2	1	0
Cloud	...	10	9	10	10	7	7	10	10	10
Remarks	...	<i>rain from 7 a.m. till 6 p.m. light rain</i>	<i>showers at noon</i>	<i>raised nearly all last night. very thick weather this morn. light rain till 11 a.m. from wind S bar .234 1 p.m. wind SE clearing</i>	<i>fog last night 1 p.m. wind W.</i>	<i>light rain last night heavy clouds from W. all day. cold in afternoon.</i>	<i>sleet and rain in light showers from 11 a.m. to 12 p.m. very cold.</i>	<i>thick weather all day. clouds lifted a little at 5 p.m. no rain since morning</i>	<i>noon wind NE. 2.30 p.m. wind NW 7 p.m. SE</i>	
Bar. corrected for I. S. and to 32° F.		.561	.455	.174	.288	.256	.240	.289	.430	.551

1877	Date	July...	22 nd	23 rd	24 th	25 th	26 th	27 th	28 th	29 th	30 th
	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	46	48	48	48	50	44	44	47
Barometer575	.645	.752	.745	.682	.496	.500	.642	.720
Dry Bulb	42	42.2	45.3	43.9	44	46.3	37.8	38	45
Wet Bulb	40	39.8	43	42	41.5	41.8	35.5	32.5	42
Maximum	54	52.7	50.3	54.9	55.5	55.3	50.1	46.9	53.6
Minimum	34.3	36	36	32.8	30.2	37.1	33.9	25.1	30
Rain	...	{ Weight	0	0		0		0		0	0
	...	{ Measure									
Evaporation	...	{ Weight									
	...	{ Amount									
Direction of Wind	E N E	E	E	E	E	W N W	SW	SW	E
Velocity									
Force	2	2 1/2	3	0	0	1	1	0	2
Cloud	10	7	9	8	0	10	2	0	0
Remarks			drizzle last night fine day at sunset heavy bank cloud W	9 a.m. wind from clear sky clouds moving from SW Showers 4 p.m. 6 p.m. wind SE		smart showers 2 p.m. T storm with heavy rain 8-10 p.m. fall of bar continued till noon then began to rise.	9 a.m. wind much higher over head		
Bar. corrected for I. E. and to 32° F.			.526	.601	.703	.696	.633	.442	.461	.603	.673

1877.

Date

July

Time

INSTRUMENT.

31st

9 a.m.

Reading.

August

9 a.m.

Reading.

2nd

9 a.m.

Reading.

3rd

9 a.m.

Reading.

4th

9 a.m.

Reading.

5th

9 a.m.

Reading.

6th

9 a.m.

Reading.

7th

9 a.m.

Reading.

8th

9 a.m.

Reading.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain

Weight

Measure

Evaporation

Weight

Amount

Direction of Wind

Velocity

Force

Cloud

July.
 Day on wh. rain fell 15
 " lightning 2
 Mean diurnal range
 of temp. 16.8
 Greatest range 34.6

Remarks

Winds S. 1

SW. 2

W 5

WNW 4

NE 1

ENE 4

E 10

SE 3

no correction applied to
thermometers.below =
not in return

Total of bar. for July 18703

.693 .545 .529

mean for July .603

.065

1 p.m. NNW

10 p.m.
lightning
to NE12 p.m.
wind E

.558

.618

.621

.724

.722

.807

.050

.043

.032

.035

.040

.048

1877.	Date August	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h
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	...	50	50	52	48	48	51	53	52	50
Barometer	...	.827	.734	.642	.758	.784	.710	.586	.624	.725
Dry Bulb	...	50.4	51	52	50.8	48.8	53	53.1	51	48.2
Wet Bulb	...	43	43.1	41.3	40.6	41.2	41.9	42.2	42.8	43.7
Maximum	...	61.1	60.9	61.6	60.2	61	68.3	64	64.3	63.4
Minimum	...	30.2	27.2	37.7	26.7	28	26.9	32.7	30.1	37.6
Rain	{ Weight									
	{ Measure	0	0	0	0	0	0	0	0	0
Evaporation...	{ Weight									
	{ Amount									
Direction of Wind	...	W	W	W	W	E	W	W	W	E
Velocity	...									
Force	...	1	1	1	1	1	1	1	1	1
Cloud	...	0	0	0	0	0	0	0	0	0
Remarks	...								10 p.m. wind E	noon wind NW sunset wind E first cloud seen since 1 st inst.
		.772	.679	.582	.708	.734	.653	.523	.564	.670
		.048	.048	.053	.043		.050	.056		

1877.

Date August

18th19th20th21st22nd23rd24th25th26th

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

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain { Weight

Measure

Evaporation... { Weight

Amount

Direction of Wind

Velocity

Force

Cloud

51

53

55

50

49

47

55

49

47

.689

.613

.510

.478

.592

.557

.452

.464

.574

51.2

53

53.3

47.9

46.7

49

54.1

50.8

43.6

47.9

48.3

48.5

44.5

43

42.3

44.9

40.7

37.2

63.8

59.5

65.6

59.4

59.1

58.2

61

63

60.4

36

34.9

45.3

30.1

37.7

28.9

44

27.1

29

0

0

36

0

0

0

2

0

0

E

NW

W

E

E

W

W

W

S

0

2

1

1

2

1

1

1

1

8 in

1

2

1

8

0

1

0

0

9 a.m.
upper current
NW
clouds above
SSW
10 a.m. NW6 p.m.
light
T storm
from SW10 p.m.
lightning
to Eat sunset
back of
cloud
in SW
light shown
at
midnightwind rose
to force
3 and 4
in afternoon
midnight
wind Swind
W
in aft.
halo
round
moon
in clear
sky.

Remarks

.632

.550

.442

.423

.540

.510

.384

.412

.527

.056

.061

1877.	Date August	27 th	28 th	29 th	30 th	31 st	September 1 st	2 nd	3 rd	4 th
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		47	47	46	47	46	51	46	49	47
Barometer		.613	.644	.620	.562	.624	.562	.462	.492	.634
Dry Bulb		47.1	46	40.9	40.2	43.6	50.1	40	47.1	46.2
Wet Bulb		40.9	42.5	39.5	39	41	45.9	37.7	41.6	41.1
Maximum		57	60.6	55	41.2	46.4	56.2	54.8	50.3	56.6
Minimum		27	30	37	33.4	33.6	33	34.7	39.6	27.5
Rain	{ Weight									
	{ Measure	0	0	44	98	0	0	46	0	0
Evaporation...	{ Weight									
	{ Amount									
Direction of Wind		SW	E	E	E	E	NW	SW	SW	E
Velocity										
Force		1	2	2	1	2	1	2	2	1
Cloud		0	9	10	10	1	8	9	4	0

August.

Days on wh. rain fell 4
" lightning seen 1

Mean diurnal range 27.5

Greatest " range 41.4

Mean & max min. 59.4 .31.9

Remarks

Inches of rain 1.80

Winds S. 1

SW 1

W 14

WNW 1

NW 2

E 10

ESE 1

SE 1

11.40 p.m. upper current raining
large meteor W ready
seen, & pale green day cold all day
colour, a little N of W, and
falling began to
vertically rain at
from 30° to 20° midnight
faint halo
round moon
in clear sky

cold
cloudy.
wind SE.

light shower
during day.
T storm to
W. at 6 p.m.
came up at
8.30 p.m.
with heavy
sustained
wind and
rain.

SW
all day

.566 .597 .576 .515 .580 .505 .418 .440 .587
Total of bar. for August
18263 mean .589

1877.	September	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th	13 th
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	51	52	52	55	57	58	56	57	48
Barometer743	.754	.764	.798	.798	.770	.696	.654	.556
Dry Bulb	...	51	53.6	53.1	54.8	56.9	57.5	54.3	54.1	45.8
Wet Bulb	...	43.7	45	44.5	46.6	49.8	49.8	49.1	51.6	40.6
Maximum	...	60.9	64.8	65.2	67	68.3	68.9	68.2	64.2	57.7
Minimum	...	29.7	33.3	32.4	38.1	40.4	43.7	48.9	49	37.8
Rain	{ Weight Measure	0	0	0	0	0	0	0	53	35
Evaporation	{ Weight Amount									
Direction of Wind	...	NW	S	SE	SE	W	NW	NW	NW	W
Velocity	...									
Force	...	1	0	0	0	1	1	1	2	3
Cloud	...	0	0	0	6	0	9	10	10	6
Remarks	...		wind unsteady from S to NW vapour gathering in air clouds to N wind vane fixed.	light air all round compass during day.	light air all round compass during day.		SW in afternoon	SW in afternoon light shower after 2 p.m. rain at night from SW	showers all day. 4.30 p.m. T storm	wind high all day cold.
		.686	.694	.704	.730	.728	.693	.622	.580	.506

1877. <i>September</i>		14 th	15 th	16 th	17 th	18 th	19 th	20 th	21 st	22 nd
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	50	50	53	55	57	55	57	49	53
Barometer	...	.634	.757	.790	.766	.627	.529	.362	.444	.548
Dry Bulb	...	44	46.7	51.1	51.3	50.3	51.2	54.4	44.6	52.2
Wet Bulb	...	42.5	43.2	46.6	47.6	48	47.7	47.1	41.5	46.9
Maximum	...	50.7	55.9	58.1	63.9	59.1	53.5	62.3	56.9	58.1
Minimum	...	38.8	37.8	35	41.6	44.7	41	42.2	38	36
Rain	{ Weight Measure	3	0	0	0	38	16	2	17.24	0
Evaporation	{ Weight Amount									
Direction of Wind	...	SW	SE	NW	WSE	NW	NW	W	W	W
Velocity	...									
Force	...	1	1	1	1	1	2	2	2	1
Cloud	...	10	9	4	10	10	8	9	9	4
Remarks	...	misty rain in early morning. clouds broke after 9 a.m. day fine with detached clouds. wind W. SE at 11 p.m.	detached clouds during day. in aft. upper current NW. clear night	8 p.m. wind E large halo round moon	5 p.m. wind NW went round by N threatening but falling rain at 11 p.m. and all night	9 a.m. light rain falling. showers during day	upper current SW wind veering from SW to N.W. weather cleared 11 p.m. reflection of L. W. shower in night	9 a.m. Tetra coming up from W wind N. just before it came cleared to fine day squall of wind and rain at 6.30 p.m. and 10 p.m.	Fine.	Fine cloudy in afternoon with cumulus.
		.579	.696	.727	.698	.553	.461	.289	.392	.485

1877.

September

Date

Time

INSTRUMENT.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain { Weight
MeasureEvaporation... { Weight
Amount

Direction of Wind

Velocity

Force

Cloud

September.

Days on wh. rain fell 11

" L. seen 5

Mean diurnal range 23.7

greatest " 32.8

Mean of max & min. 60.9 37.2

Inches of rain 2.26

Remarks

Winds S. 1

SW 3

W 5

NW 13

E 4

SE 4

23rd

9 a.m.

Reading.

24th

9 a.m.

Reading.

25th

9 a.m.

Reading.

26th

9 a.m.

Reading.

27th

9 a.m.

Reading.

28th

9 a.m.

Reading.

29th

9 a.m.

Reading.

30th

9 a.m.

Reading.

October.
1st

9 a.m.

Reading.

53

482

47

44.3

64

35.4

4

NW

1

9

light T storm

passing

from NW

cleared

to fine day

50

582

48.8

41.6

58.4

28

2

E

1

0

wind went

round by S

back to

NW in

afternoon

56

581

56.2

50.1

63.6

37.6

0

NW

2

4

cumulus

passing

into

stratus

thickening

sky

and

little

rain

at 1 p.m.

49

634

47.2

41.8

63.1

32.6

3

NW

2

0

Fine.

Fine day

with

detached

clouds.

wind evidently

from E to

N.W.

10 p.m.

reflection

of L. seen

to E & N.E.

582

617

604

564

458

395

Total of bar for September

17054

mean .568

54

670

53.6

48

63.9

34.2

0

SE

1

1

stratus

and

cumulus

to N.

NW & W

during day

E after

sunset

reflection

of L to E.

604

564

458

395

Total of bar for September

17054

mean .568

56

635

56

48.4

65.2

34.1

0

NW

1

5

cirrus

with cumulus

to N

Fine with

detached

clouds.

4 p.m.

light T storm

passed to S.

564

458

395

Total of bar for September

17054

mean .568

59

537

59

48.6

67.3

38.3

0

NW

2

1

light cloud

to W brought

up by squalls

of force 3 & 4.

detached clouds

4 p.m.

light T storm

passed to S.

458

395

Total of bar for September

17054

mean .568

53

458

52.7

44.2

67.2

33.4

0

NW

1

6

Fine

with light

clouds

after sunset

L. to E and

N.E. for

several hours.

395

Total of bar for September

17054

mean .568

1877.	Date <i>October</i>	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th
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	...	50	53	51	55	55	61	61	63	55
Barometer	...	482	668	660	613	642	742	784	585	492
Dry Bulb	...	50.2	51.2	49	53.1	55.6	61.1	62.4	65	55
Wet Bulb	...	42	45.3	44.8	48.3	49.2	52	53.3	54.7	49.1
Maximum	...	65.8	62.8	63.8	58.4	65.6	70	72.2	76.3	69.6
Minimum	...	32	32.9	30.6	37.3	34	40.2	47.7	51.5	38.2
Rain	{ Weight Measure	0	0	0	0	2	0	0	0	9
Evaporation...	{ Weight Amount									
Direction of Wind	...	W	SE	SW	SE	SSW	SE	E	NW	ESE
Velocity	...									
Force	...	2	2	1	1	1	2	2	3	2
Cloud	...	0	9	3	4	0	0	0	9	1
Remarks	...	Fine and clear. Wind went round to SE after sunset going by S 2 of 6 to SE	Fine with detached clouds in large masses	Cloudy 11 p.m. 2 of 6 to E	Cloudy. at night 2 of 6 to E. Shower in aft. SW during day.	Fine.	Cloudless. Wind SE to E.	Wind force from end all day. Fine.	stratus and haze 11 a.m. light T storm wind fell. bar. rose during T storm NW gale rose and bar. fell when it had passed. gale died at sunset light T storm about all day	cloudy m.g. cleared. in aft upper current of clouds from N rain at sunset
		427	605	603	545	574	657	699	496	424

1877	Date <i>October</i>	11 th	12 th	13 th	14 th	15 th	16 th	17 th	18 th	19 th
	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	59	59	66	55	52	56	64	55
Barometer		612	600	570	506	474	580	638	416	276
Dry Bulb		52.5	59.5	59.4	68.6	55.8	54.1	60.2	64	49.8
Wet Bulb		48.6	53.4	55.5	53.7	44.6	44.4	47.8	57	48.4
Maximum		68	64.4	70.7	75	80	68.9	71.3	76.1	71.7
Minimum		40.6	44.1	46.5	42.8	38.1	30.2	35.1	48	49
Rain	{ Weight Measure	6	14	2	0	0	0	0	0	41
Evaporation	{ Weight Amount									
Direction of Wind		ESE	NW	W	NW	W	EW	NW	NW	NW
Velocity										
Force		3	2	1	2	1	1	2	4	2
Cloud		8	5	6	0	0	1	0	10	10
Remarks		Sale all night 9 a.m. upper current NW day cloudy and threatening rain began to fall at sunset.	much cumulus Tetons about. travelling to E.	cumulus cleared off to fine day	Fine. few clouds with high wind in afternoon	Cloudless.	circus wing SW. Fine few cirri halo round moon in clear sky	Fine. overcast towards evening halo round moon in clear sky.	read at 10.30 Tetorm passed to N. at 3 p.m. gale died out in afternoon wind veering to W and SW. rain at 8 p.m.	Squally with thunder and rain. gale after sunset.
		552	521	491	409	406	520	567	324	208

1877.	Date <i>October</i>	20 th	21 st	22 nd	23 rd	24 th	25 th	26 th	27 th	28 th
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	54	49	50	54	57	61	62	66
Barometer	...	270	490	711	840	836	786	736	638	494
Dry Bulb	...	44.9	54.9	48.4	49.8	55.3	59	65.3	66.5	69
Wet Bulb	...	44	50.3	44	44.7	47.2	51.9	51.9	54.6	53.7
Maximum	...	58.1	57	66.2	58.8	62.3	70	72.4	77.8	81.6
Minimum	...	40	38.3	38.9	34.5	38.4	41.6	42.7	50.6	56.9
Rain	{ Weight Measure	42	2	74	0	0	0	0	0	0
Evaporation...	{ Weight Amount									
Direction of Wind	...	NW	E	SE	SE	NW	NW	W	NW	NW
Velocity	...									
Force	...	3	2	2	2	1	2	1	2	3
Cloud	...	10	6	7	1	0	0	0	5	3
Remarks	...	Cleared in afternoon wind changing to S.W. halo round m. in clear sky	cumulus gathering during m. 3.30 p.m. To com with hail and heavy rain from SE upper clouds seen moving from NW when it had passed. thick m. after wards. with high cold SE wind.	Fine with detached clouds. halo round m. in clear sky	Fine with few detached clouds. halo round m. in clear sky	Fine. halo round m. in clear sky very distinct spectrum red outside	Fine wind W. halo se do	Fine.	cinus Fine.	gale all day dying away towards sunset.
		218	424	659	785	770	712	651	551	397

1877.

Date

October

29th30th31st

Time

9 a.m.

9 a.m.

9 a.m.

INSTRUMENT.

Reading.

Reading.

Reading.

November.

9 a.m.

9 a.m.

9 a.m.

9 a.m.

9 a.m.

9 a.m.

Reading.

Reading.

Reading.

Reading.

Reading.

Reading.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain

Weight

Measure

Evaporation...

Weight

Amount

Direction of Wind

Velocity

Force

Cloud

October.

Days on wh. rain fell 10.

l. seen 6

mean diurnal range 28.4

greatest 41.9

mean of max. 69.6

" min. 41.2

Remarks

inches of rain 2.13

Winds SSW 1

SW 1

W 5

NW 15

E 2

ESE 2

SE 5

Cirrus
gale all
day.Cloudy
rain set
7 P.M.Cleared
to
fine day.gale all
day.till
sunset.Cloudless
and
calm.hazy
home.gale all
day.with
clear sky.gale
continuing
through the
night.Fine
and clear.
N.W. gale
still
prevailingCloudless
gale
all day.
and
nightCloudless
gale
continuing
but not
quite as
strong.
through
the night
alsoCloudless
wind
continuing
but with
less force
very light
at night.Cloudless.
wind
continuing
but very
light.

.308

.316

.601

Total of bar. for October

15815 mean .510

.513

.364

.337

.367

.376

.469

1877.	Date <i>November</i>	7 ^H	8 ^H	9 ^H	10 ^H	11 ^H	12 ^H	13 ^H	14 ^H	15 ^H
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	61	68	69	64	58	57	63	65
Barometer	...	558	568	612	626	557	598	650	567	558
Dry Bulb	...	70	72.5	75.4	67.6	64.8	53.9	59.6	67.1	65.9
Wet Bulb	...	49.1	51.8	50	56.3	56	57.	55	56.4	55.7
Maximum	...	80.6	83.5	86.9	92.2	85.1	76.2	64	75.2	82
Minimum	...	40.8	41	48.8	61.9	53.8	48.6	43.1	47	53.2
Rain	{ Weight	0	0	0	3	31	10	30	0	0
	{ Measure									
Evaporation	{ Weight									
	{ Amount									
Direction of Wind	...	NW	NW	NW	NW	NW	E	ESE	W	NW
Velocity	...	2	1	2	1	3	1	2	1	1
Force	...	0	0	0	10	10	10	2	0	4
Cloud	...	Cloudless wind light. veering at times to W & SW.	Cloudless wind very light	best haze cirrus and few clouds overcast towards evening lightening to NNE at sunset 10 p.m. L. to W.	best haze and cumulus 3.30 p.m. T storm travelling from SE upper current NW.	best haze. Cloudy thunder about.	raining clouds from NW rained till noon then cleared gradually.	Fine with few small clouds.	Fine with a good deal of cumulus. 2. of L. at night to E & SE.	wind unsteady. much cumulus several light T storms passing from W to E.
Remarks	...	476	483	509	520	465	521	576	478	463

1877.	Date November	16 th	17 th	18 th	19 th	20 th	21 st	22 nd	23 rd	24 th
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	71	68	64	62	64	68	61	61
Barometer		578	530	566	616	575	460	330	479	562
Dry Bulb		73	74	71.5	66.8	64.9	67.5	72.9	63.2	68
Wet Bulb		59.2	61.7	61.8	59.6	56.1	60.8	59	56.4	58.9
Maximum		84.1	85.4	88.1	85.3	73	80.2	84.2	89	74.1
Minimum		60	63.5	55	52.4	50.9	51.3	58	50.3	45.2
Rain	{ Weight									
	{ Measure	5	1	0	1	2	10	0	1	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind		NW	NW	NW	E	NW	NW	NW	ESE	NW
Velocity										
Force		2	3	2	2	1	2	1	2	2
Cloud		3	8	5	6	5	4	1	9	1
Remarks		Cirrus at 9 a.m. cumulus gathering in large masses. light Tstorms passing from W to E with little or no rain.	heavy cumulus Tstorms passing from W to E. 4 p.m. heavy Tstorm passed a little to N.	Cirrus. cumulus Tstorms passing from W to E in aft wind changed to E	E gale with clouds all day. Tstorm that distended to W. all afternoon appeared to be driven back by E wind and increasing in violence all day.	cumulus covering sky in middle day Tstorm at 4 p.m. travelling from SW to NE.	cumulus covering sky in middle day Tstorms to N & S travelling E.	Cirrus-stratus rising to W and NW. cumulus during day with cirrus overhead. Thunder. 4.30 p.m. wind came up from ESE with driving clouds and thunder. 12e to gale.	Fine with detached clouds. wind light and variable in aft. Warm and close.	Fine with detached clouds wind light and variable in aft. Warm and close.
		475	439	463	524	488	368	227	394	477

1877	November	25 th	26 th	27 th	28 th	29 th	30 th	December 1 st	2 nd	3 rd
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	69	65	68	70	72	69	71	69	71
Barometer	...	652	639	580	511	559	618	604	532	544
Dry Bulb	...	78	68.8	73.2	77.8	75	70.2	76.6	69.8	74.8
Wet Bulb	...	62.3	58.4	62.4	63.4	60.9	59.8	63.5	63.7	62.7
Maximum	...	84.6	85.8	88	89.6	88	88	86.4	90	81.8
Minimum	...	53.7	48.9	59.1	58.7	62	58.6	59.2	62.8	58
Rain	{ Weight									
	{ Measure	0	7	19	15	0	14	0	5	2
Evaporation	{ Weight									
	{ Amount									
Direction of Wind	...	SW	NW	NW	NW	NW	W	NW	W	NW
Velocity	...									
Force	...	1	1	2	2	1	1	3	1	1
Cloud	...	7	5	0	0	10	3	4	9	4
November.										
Days on wh. rain fell	14.									
" " " l. seen	14.									
mean diurnal range	30.1									
greatest do	42.5									
mean of max.	81.6									
mean of min.	57.5									
Remarks	...									
inches of rain	1.49									
Winds.	S.W. 1.									
	W. 2.									
	N.W. 23.									
	E. 2.									
	ESE 2									
Total of bar. for November										
	13699 mean .457									
		.546	.544	.477	.403	.445	.512	.493	.426	.433

1877	December	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	73	64	60	61	68	72	67	58	60
Barometer	...	516	402	458	578	625	604	600	686	715
Dry Bulb	...	78	58.7	59.4	66.2	72.7	74.5	67.5	61	63.8
Wet Bulb	...	66.7	57.2	51	56.9	63	63.8	63.2	57	56.2
Maximum	...	91.4	91.2	75	76.2	84	87.9	88	75.6	69.3
Minimum	...	59.3	57.5	48.3	46	54.1	63.9	58.3	51.4	46.2
Rain	{ Weight									
	{ Measure	66	131	2	0	0	0	39	4	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind	...	NW	NW	NW	NW	NW	NW	ESE	E	E
Velocity	...									
Force	...	2	1	2	1	1	2	2	3	2
Cloud	...	3	10	0	0	1	5	10	10	0
Remarks	...	Cirrus T storms in aft. travelling E. with rain. First flock of ibis seen. First common horn crickets appeared. Heavy rain at midnight.	rain in morning cleared gradually to fine afternoon	Fine and clear with E in evening.	Cloudless.	Cumulus Fine with light cumuli. at night L. to W.	Cumulus T storm in aft with shower and at sunset with rain from SW	Fine with detached clouds drizzle at sunset T storms passing during day.	Cloudy thunder about.	Fine and clear with few clouds in afternoon.
		400	310	376	493	522	490	501	609	633

1877.	December	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th	21 st
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	59	67	70	69	65	66	64	63	65
Barometer	...	640	572	564	408	450	397	341	538	544
Dry Bulb	...	63.8	71	74.1	63.7	67.2	68.4	62.5	65.7	66.3
Wet Bulb	...	53.8	60	63.8	62	58.8	61	54.1	56.5	59.1
Maximum	...	79.9	82.2	83.9	90.3	70.4	84.9	82.3	76.7	82.2
Minimum	...	43	55	56.2	63	53	55.2	56	47.3	50.8
Rain	{ Weight	0	0	6	39	71	0	36	0	0
	{ Measure									
Evaporation	{ Weight									
	{ Amount									
Direction of Wind	...	NW	NW	W	NW	SW	NW	NW	E	NW
Velocity	...	1	2	2	2	1	2	2	1	2
Force	...	0	1	1	10	0	10	2	0	3
Cloud	...									
Remarks	...	Fine and clear with light variable airs	Cloudy in aft clouds rising from SW. Rain with Thunder at 9 p.m.	Fine with light cumuli at 3 a.m. strong wind bringing up steady rain which lasted	til 2 p.m. then cleared off to fine	Fine with few detached clouds wind varying from SW to NW.	Cloudy forenoon like storm but cleared in aft. in aft. Fetorm to S.W. & N. at midnight 2 Tetons came up with NW wind.	Fine and clear.	Fine and calm wind variable.	much cumulus wind E. in afternoon.
		561	473	456	302	355	300	249	449	449

1877.	December	22 nd	23 rd	24 th	25 th	26 th	27 th	28 th	29 th	30 th
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.	Reading.
Attached Thermometer	64	69	64	62	65	67	76	70	66	
Barometer	552	438	426	402	512	506	456	418	500	
Dry Bulb	57	71.8	67.1	67	69.2	77	78.9	71.7	69.3	
Wet Bulb	59.5	63	53.4	53.1	56.1	57.5	64.8	57.5	60.8	
Maximum	83.2	85.1	86	81.7	81.8	86.4	93.4	94.6	85.3	
Minimum	52	61.4	48	42.8	47.1	49	65.7	57	56.4	
Rain { Weight										
Measure	0	0	5	0	0	0	0	0	0	
Evaporation... { Weight										
Amount										
Direction of Wind	NW	NW	W	NW	NW	NW	NW	W	SE	
Velocity										
Force	1	3	2	3	2	1	3	1	2	
Cloud	1	1	0	0	0	0	0	1	5	
Remarks	Fine with light cumuli	Cumulus T. storm at 6 p.m. passing to E on the S	Fine and clear.	Cloudless 2 at L. to NW at night	Cloudless	Cloudy in afternoon warm day	hot wind gale all day from W & NW with few clouds.	Fine wind changed to SE.	Cloudy like rain	
	460	332	334	315	417	497	332	310	403	

1878	Date <i>January</i>	9 ^H	10 ^H	11 ^H	12 ^H	13 ^H	14 ^H	15 ^H	16 ^H	17 ^H
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	69	73	75	73	73	73	76	74
Barometer		.597	.632	.600	.570	.602	.549	.551	.431	.476
Dry Bulb		71	75.9	79.6	80	76	77.6	78	81.9	77.8
Wet Bulb		59.1	56.7	61.3	64.2	65	64	63	60.2	63.6
Maximum		85.7	93.1	98.2	99.6	98.1	9.8	94.1	95.2	99.7
Minimum		47.2	50.8	56.5	59.7	60.5	62.7	60.6	70.6	59.4
Rain	{ Weight									
	{ Measure	0	0	0	0	0	52	0	0	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind		SE	SE	SE	SE	SE	E	NW	NW	W
Velocity										
Force		1	1	2	1	1	1	2	2	2
Cloud		0	0	0	1	1	0	0	0	0
Remarks		Fine cirrus forming in middle day.	Fine & hot with few clouds.	do	Cloudy Tornado at 2 p.m. very high with few drops of rain only.	Cloudy Tornado with much lightning in aft.	Tornado all round in afternoon.	Fine and cumulus in middle day	Fine and hot wind E with cloud at 5 p.m.	Fine and hot with detached clouds wind changed to E at 5 p.m.
		.505	.526	.484	.449	.486	.433	.435	.307	.358

1878.	January	18 th	19 th	20 th	21 st	22 nd	23 rd	24 th	25 th	26 th
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	77	78	76	66	55	58	61	60	61
Barometer	...	55.4	55.8	50.5	49.0	60.0	61.8	67.5	60.8	59.6
Dry Bulb	...	80.8	80.5	78.5	66	53.7	61	63.5	61.2	64.2
Wet Bulb	...	65	66.6	61.7	59.8	51.6	56	55.9	57.6	58.4
Maximum	...	97.2	100	99.1	91.3	70.9	68.7	74.2	74.7	72.2
Minimum	...	62	64.7	65.2	58.9	48.6	50.2	52.7	52.8	53.9
Rain	{ Weight Measure	0	45	0	0	24	4	1	3	2
Evaporation	{ Weight Amount									
Direction of Wind	...	NW	NW	NW	SE	SE	E	SE	SE	SE
Velocity	...									
Force	...	3	2	2	2	2	3	2	2	3
Cloud	...	0	6	7	9	10	6	5	10	5
Remarks	...	Totorm from SE at 5 p.m.	Totorm from SE with few drops of rain.	Cloudy. wind SE at 6 p.m.	high wind with thunder and slight rain in aft.	high wind with occasional drizzle.	Fine but much cloud cirrus and cumulus. drizzle at night	Fine with drifting clouds. drizzle in aft.	cleared to dr ds.	Fine with detached clouds. lightning at sunset to N.
		427	429	381	393	532	541	590	526	511

1878. February

Date ...

Time ...

INSTRUMENT.

Attached Thermometer ...

Barometer ...

Dry Bulb ...

Wet Bulb ...

Maximum ...

Minimum ...

Rain ... { Weight ... Measure ...

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

Direction of Wind ...

Velocity ...

Force ...

Cloud ...

Remarks ...

5^H

9 a.m.

Reading.

68

.518

71.5

60.7

82.3

60

1

66

20

17

145

6

265

0

4

4

4

3

5

5

5

5

5

5

5

5

5

5

5

5

5

5

5

6^H

9 a.m.

Reading.

65

.542

66.5

63.1

83.9

61

66

20

17

145

6

265

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

7^H

9 a.m.

Reading.

64

.543

61.7

59

75.4

59.7

20

17

145

6

265

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

8^H

9 a.m.

Reading.

67

.513

69.9

63.9

72.7

57.5

17

145

6

265

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

9^H

9 a.m.

Reading.

68

.624

69.6

64.7

76.2

58.5

145

6

265

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

10^H

9 a.m.

Reading.

68

.637

70.5

64.2

78.8

59.7

6

265

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

11^H

9 a.m.

Reading.

63

.550

64.8

61.6

83

56.4

265

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

12^H

9 a.m.

Reading.

71

.572

72.7

67

82

65.1

0

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

13^H

9 a.m.

Reading.

68

.626

71.4

65.7

86

56.7

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

wild sky.
Tetorms
in aft.
travelling
SE
and with
heavy rain
at 8 p.m.

Shower.
Tetorms
passing
on S.

Tetorms
passing
from W.
with
little
rain.

Tetorms
from W
with heavy
rain
travelling
against
wind
which ranged
from NE
to SE.

Tetorms
passing
from W.
wind all
round
compass
chiefly
NE.

Tetorm
fettering
in aft. with
great disturbance
in clouds.
began with
heavy showers
which
lasted all
night.
Cleared in morn
with SW wind
which gave
place to NE
current between
8 and 9 a.m.

Fine.
about 10 a.m.
NW
current
prevailed.
Tetorm
at night
to SE.

Fine
till noon
4 p.m.
Tetorm
from SW
travelling
E.
6 p.m.
wind changed
to E.

Cirrus
from NW.
Tetorms
round
in aft.

.415

.447

.451

.414

.521

.534

.461

.461

.523

1878. February

Date

Time

INSTRUMENT.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain { Weight
MeasureEvaporation { Weight
Amount

Direction of Wind

Velocity

Force

Cloud

Remarks

14th

9 a.m.

Reading.

15th

9 a.m.

Reading.

16th

9 a.m.

Reading.

17th

9 a.m.

Reading.

18th

9 a.m.

Reading.

19th

9 a.m.

Reading.

20th

9 a.m.

Reading.

21st

9 a.m.

Reading.

22nd

9 a.m.

Reading.

68

63.9

67.2

63.3

85.7

61.5

0

0

W

1

10

Cleared to fine day. clouds settled again in aft with wind NW after sunset T storm came up from SE with rain.

.536

66

59.0

66

62.7

83.1

59.2

50

SE

1

10

heavy clouds covering sky all day. drizzle at night and SE gale

.493

62

60.0

62.5

59.8

71

56.7

3

SE

3

10

dull morning with drizzle steady rain all afternoon with high wind.

.513

59

59.5

59.7

58.4

64

53

67

SE

2

10

light rain & drizzle at intervals during day till 10 p.m.

.576

62

59.4

63.8

59.9

67.2

54.8

3

E

3

9

drizzling showers during day.

.507

65

50.0

67.4

64

72.5

59.2

4

SE NW

1

1

upper current from N. Fine with cumulus T storm from S. at 11 p.m. passing to E.

.405

69

53.4

71

64.9

81.3

59.5

20

SW

1

8

upper clouds moving in several directions T storm in aft passing to E. under current of wind Easterly during day.

.428

66

58.7

66.2

64

80.4

59.2

34

SE

1

10

Threatening morning but cleared to fine day. T storm passed in evg.

.490

about from home

0

NW

Fine much sheet long all round in evg. and T storm round N.W. side at midnight bringing up heavy rain. lasted 7 hours.

1878.	February	23 rd	24 th	25 th	26 th	27 th	28 th	March 1 st	2 nd	3 rd
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.
Time	...	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
INSTRUMENT.										
Attached Thermometer	...	69	68	58	59	57	58	58	61	62
Barometer565	.560	.700	.699	.701	.695	.684	.690	.697
Dry Bulb	...	64.4	66.1	59.6	60.3	58.1	59.5	60.2	62.2	65.5
Wet Bulb	...	63.3	63.9	55.8	56.1	55	55.2	56.4	56	59.6
Maximum	...	86.3	78.1	75.8	68.4	70	67.4	68	70.8	75
Minimum	...	60.6	63	51.2	52	51	50	51.2	51.1	52.2
Rain	{ Weight ... Measure ...	297	17	5	0	7	1	0	0	0
Evaporation	{ Weight ... Amount ...									
Direction of Wind	...	W	SW	E	E	E	E	E NE	NE	NW
Velocity	...									
Force	...	0	1	3	2	2	3	3	3	1
Cloud	...	10	10	3	5	9	3	8	2	2

February.										
Days on wh. rain fell	20	creek in high flood.	cloudy	Fine	do	Fine	do	Fine	Fine	Fine
" " L. seen	15	Cloudy and threatening	cloudy in afternoon	do	do	with low clouds from E	do	with few clouds.	cloudy to N.	with little cirrus
mean diurnal range	21.5				drizzle at night					wind changed to E in aft. cloudy night
greatest do	35.1	Tetorms round in evg.								
mean of max.	78.7									
mean of min.	57.2									
Remarks	...	Total of bar. for February 27 days								
inches of rain	10.32	13329 mean .494								
Winds SW. 2										
W 2										
NW 4										
N 1										
NNE 2										
ESE 1										
E 9										
SE 7.										
		Mean of dry bulb	.459	.457	.623	.620	.627	.618	.607	.605
		" " wet "	66.2	66.2						
		" " cloud	61.3	61.3						
		" Humidity	6.6	6.6						
			73	73						

1878.	Date <i>March</i>	4 ^{<i>H</i>}	5 ^{<i>H</i>}	6 ^{<i>H</i>}	7 ^{<i>H</i>}	8 ^{<i>H</i>}	9 ^{<i>H</i>}	10 ^{<i>H</i>}	11 ^{<i>H</i>}	12 ^{<i>H</i>}
	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		63	64	66	67	70	71	65	66	67
Barometer		720	697	663	670	626	580	590	619	618
Dry Bulb		64	66.1	69.3	69.1	71.3	72.5	68	68.2	71.2
Wet Bulb		60.4	59.1	63.5	63.8	64.1	67.6	62.9	64.4	64.1
Maximum		76.6	74.7	82.6	80	83	82.2	85	78.8	78.1
Minimum		58.6	55.9	55.7	57	62.4	64.8	56.7	56.7	56.2
Rain	{ Weight Measure	3	0	0	0	0	3	0	39	0
Evaporation	{ Weight Amount									
Direction of Wind		E	NE	W	E	NW	NW	E	E	NW
Velocity										
Force		0	0	1	1	1	2	2	1	1
Cloud		10	0	1	1	1	8	10	1	0
Remarks		Fine. wind. clearing to N.E. still day	Fine wind SE to NE upper current of clouds from S. still day. night clear.	Fine thundering in aft till till light breeze spring up from E.	Fine with few clouds. clear night	Fine. cloudy afternoon clear night light rain to E at sunset	upper clouds from SW much cumulus light T storm to N. wind E in aft. Morning fresh	Cloudy T storm in aft travelling NE	Fine with much cumulus. L to SE at night	Fine with much cumulus.
		631	605	566	571	518	469	495	522	579

1878. Date <i>March</i>	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th	21 st
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	71	67	68	64	58	62	63	64
Barometer	.664	.668	.597	.520	.602	.670	.692	.664	.710
Dry Bulb	72.6	75.9	70	70.3	65.8	60.6	61.2	60.8	64.2
Wet Bulb	63.8	62	61.5	62.8	61.4	55.5	58.4	58.7	62.2
Maximum	84.2	83.5	84.1	81.9	82.7	67.3	72.7	77.3	70.7
Minimum	58	57.6	55.2	58.7	60.8	50	56.5	57.5	56.5
Rain { Weight	0	0	W.H.H.	0	2	8	0	8.47	57
Measure									
Evaporation { Weight									
Amount									
Direction of Wind	W	N	WNW	NW	ESE	E	E	NW	NW
Velocity	1	1	1	3	2	2	1	1	1
Force	1	1	0	2	10	0	10	10	10
Cloud	0	1	0	2	10	0	10	10	10
Remarks	Fine calm in mid-day. wind very light & variable upper current from NNW.	upper current E Fine	Fine.	Fine at sunset heavy bank of cloud to SW. like rain	drizzle in aft. and evg.	Fine upper current from W.	raining clouds from SW cleared to fine day with W. wind	raining in m.p. and afternoon.	raining in m.p. cleared at midday with E wind.
	.558	.557	.498	.417	.570	.593	.605	.575	.618

1878.	Date <i>March</i>	22 nd	23 rd	24 th	25 th	26 th	27 th	28 th	29 th	30 th
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	...	63	64	62	64	64	62	62	66	66
Barometer	...	775	764	773	664	458	483	648	612	612
Dry Bulb	...	63.8	65.8	63	66	63.4	61.6	63.7	69	69
Wet Bulb	...	60.6	61.3	59.9	58.1	60	57.5	59.4	61.5	61.5
Maximum	...	74.9	71.2	77.3	76.4	75	66.8	71.8	77	77
Minimum	...	57.4	56.3	53.6	52.8	61.3	56.3	53.2	54.1	54.1
Rain	{ Weight Measure	17	39	0	0	3	108	0	0	0
Evaporation...	{ Weight Amount									
Direction of Wind	...	NE	E	NE	NW	NNW	SW	E	NW	NW
Velocity	...	0	1	1	1	2	1	1	1	1
Force	...	0	1	1	8	10	2	1	3	3
Cloud	...	10	4	5						
Remarks	...	upper current from SW lowering and bringing rain.	upper current SW cloud forming rapidly Fine with cumulus in large masses.		Fine with cloud gathering.	raining from NNW.	clearing rapidly from SW Fine with few small clouds.	Fine, clouding over from N. in aft.	Fine with hard clouds to N.	
		.686	.672	.686	.572	.366	.396	.561	.515	

1878.	Date	March	31 st	April	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th
	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.
			Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer			61	52	56	55	61	59	59	59	59	59
Barometer			57.6	60.0	58.4	56.0	63.2	69.4	71.4	67.7	73.8	73.8
Dry Bulb			63.2	56.8	60.9	59.4	63	61.3	60.9	62.2	58.9	58.9
Wet Bulb			57.4	48.4	53.7	50.3	57.8	57	56.8	58	56.8	56.8
Maximum			75.6	71	70.4	71.6	71.3	72.2	71.2	71.1	72	72
Minimum			48.8	37.7	40.9	40.3	47.6	46.8	50.1	46.7	50.4	50.4
Rain	{	Weight										
	{	Measure	0	0	0	0	0	0	0	0	0	0
Evaporation...	{	Weight										
	{	Amount										
Direction of Wind			NW	SW	NW	NW	E	E	E	E	E	E
Velocity												
Force			1	1	2	1	1	1	1	1	1	2
Cloud			0	0	0	0	0	0	0	0	0	7

March.
 Days on wh. rain fell 11
 " " " 2
 mean diurnal range 20.7
 greatest do 28.9
 mean of max. 76.8
 mean of min. 56.1

Remarks
 inches of rain 3.26

Winds SW 1
 W 2
 WNW 1
 NW 10
 NNW 1
 N 1
 NE 4
 ENE 1
 E 8
 ESE 1

Fine and clear.
 Fine and clear.
 do.
 do.
 Fine with cloud in large masses and some cumulus.
 Fine do.
 Fine with detached clouds.
 Fine with light cumuli
 Drizzle in m. cloudy like change

Total of bar. for March 30 days.
 16594 mean. 553

491 540 513
 Mean of dry Bulb 66.3
 " wet " 60.8
 " cloud 4.3
 " Humidity 70

492 547 615 635 599 659

1878

Date

April

Time

INSTRUMENT.

Attached Thermometer

Barometer

Dry Bulb

Wet Bulb

Maximum

Minimum

Rain

{ Weight

{ Measure

Evaporation...

{ Weight

{ Amount

Direction of Wind

Velocity

Force

Cloud

Remarks

9^h10^h11^h12^h13^h14^h15^h16^h17^h

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.

Reading.

Reading.

Reading.

Reading.

Reading.

Reading.

Reading.

Reading.

Reading.

59

58

55

56

57

55

58

56

58

773

770

686

624

646

656

684

775

819

59.5

59.5

54.8

56

57.8

58

60

61.7

60.5

55.9

54.8

50.6

51.7

54

53.4

54.9

54

53.4

67.3

65.9

67.8

63.7

65

67.5

68.2

68.8

72.7

51.6

50.5

45.2

45

45.5

41

42.6

43

44.1

0

1

0

0

8

0

0

0

0

E

ESESE

ESE

ESE

E

NW

NW

W

E

2

3

2

3

1

1

2

1

2

8

4

5

6

0

1

2

2

1

Fine
with
cloud in
large
masses
and
occasional
slight
drizzle.Fine
with
cloud in
large
masses.

do

do.

Fine
with
detached
cloud
shower
in aft.Fine
with
few small
clouds.Fine
with
clouds
rising
8 N.Fine
with large
clouds
detached.

do.

do.

Fine
with
few
clouds.

694

693

618

553

572

588

607

704

742

1878. Date <i>May</i>	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	12 ^h	13 ^h	14 ^h
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	54	57	60	45	49	50	46
Barometer	836	792	768	660	393	538	628	584	536
Dry Bulb	51.5	52.1	50.6	57	54	39.9	47	51.6	44.8
Wet Bulb	49.8	48.2	48	53.8	52.6	37.4	44.1	47	42.6
Maximum	64.1	58.9	60.6	61.6	61.7	53.5	50.2	62.2	59.2
Minimum	42	42	44	46.5	50.8	33.8	36.7	36	33.3
Rain { Weight Measure	0	2	0	7	62	44	0	0	0
Evaporation { Weight Amount									
Direction of Wind	NE	E	E	E	SW	SW	SW	W	W
Velocity									
Force	3	2	2	1	1	1	1	1	1
Cloud	10	1	10	8	10	0	0	1	6
Remarks	mist gale with mist showers all day.	Fine and clear.	Cloudy	Cloudy light rain in a.m. changed in forenoon to NW	raining all forenoon cleared in a.m. rain again at night	Fine clear and cold.	Fine. Cloudless.	Fine thin cloud forming in a.m.	Cloudless
	773	732	702	586	311	496	576	529	492

1878.	Date <i>May</i>	15 th	16 th	17 th	18 th	19 th	20 th	21 st	22 nd	23 rd
	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	52	54	56	58	51	46	49	46
Barometer		54.4	67.1	60.7	67.9	65.0	57.6	56.6	59.4	55.2
Dry Bulb		49	49.1	53.7	52.7	54.4	50.9	46.3	47	47
Wet Bulb		43.6	47	50.6	49.6	51.9	48.7	42	42.5	43.6
Maximum		61.2	66.2	57.8	60.5	59	59.8	58	57	57.5
Minimum		32.6	39	40	43.7	47.5	37.3	31.7	28.9	29.6
Rain	{ Weight									
	{ Measure	0	0	0	0	3	7	0	0	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind		NW	E	NW	E	E	E	E	E	SW
Velocity										
Force		2	3	1	2	1	1	1	1	1
Cloud		3	10	4	2	9	3	0	0	0
Remarks		Cloudless.	Cloudy but cleared in aft. upper currents NE and W.	Cloudy like change.	Fine. little rain at sunset	Fine. with much cloud little rain in aft.	Fine.	Cloudless.	Cloudless. upper current SW during day	Fine with few light clouds.
		49.4	61.1	54.1	60.8	57.3	51.9	52.2	54.2	50.8

[illegible]

1878	Date June	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th
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		39	49	52	44	40	41	45	46	47
Barometer		35.4	41.6	52.7	47.2	38.3	28.7	30.0	29.6	24.5
Dry Bulb		37.8	44.2	47.2	44.1	39	41.5	37.9	43	40.7
Wet Bulb		35	42.5	44.7	41.7	35.5	36	35	37.4	37
Maximum		51.8	47.1	50	54.5	55.2	52.5	50.2	47.6	48.1
Minimum		25.6	33	39.4	25.7	23.8	27.3	33	34	38
Rain	{ Weight									
	{ Measure	2	4	7	0	0	0	2	0	0
Evaporation	{ Weight									
	{ Amount									
Direction of Wind		SW	SE	SSE	E	SW	W	WSW	WNW	WNW
Velocity										
Force		2	1	1	2	1	2	3	3	3
Cloud		0	7	9	0	0	0	10	0	10
Remarks		Fine clear and cold with few clouds	Rain in early mng. Cloudy with little rain.	in forenoon wind changed to SW going round by S and clearing sky.	Fine with few small clouds in upper current from S.	thin cloud formed and increased from W and S.	Fine and cold with high W. wind.	Clouds cleared off and wind moderated cold.	high wind all day with few clouds Sky cleared after sunset	gale all day with few showers of sleet and light rain.
		329	364	467	433	355	256	258	252	198



