

The three very hot summers.  
Meteorological Journal  
for  
1857, 1858, & 1859.  
Kept at Ihwaite.

TAW  
07





*Meteorological*

**JOURNAL,**

*continued by*

*Orlando Whistecraft*

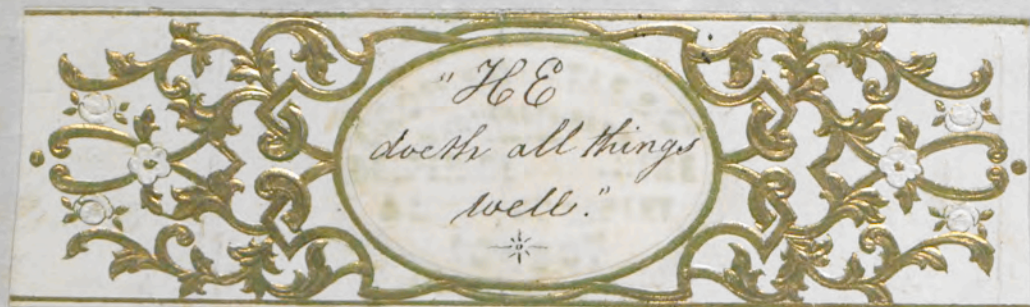
*Thwaite St George, Suffolk.*

*for the years of our L.C.R.D.,*

**1857,**

**1858, & 1859.**





# January 1857.

Jan.	Baro. meter	Wind.	Thermometric	Thermom.	Weather &c.	Notes.	Rain.
			lowest	8 am		8 pm.	
Th. 1.	30.12 -71	SW <sub>3</sub> SW <sub>2</sub> SW <sub>4</sub>	44 50 53		Very mild, and brisk wind, bright and pleasant most of the day. More hazy from 3pm, & cloudy evening. —	45	
F. 2.	29.78 -84	SW <sub>4</sub> SW <sub>4</sub> W <sub>4</sub>	44 47 49		Storm of rain & wind 4 1/2 am, clear & fine most of the day. Moon bright at eve, and beautiful halo at 8 pm. — Night more hazy. —	moon faded over the planet 4 1/2 pm, and clearly observed.	10
S. 3.	-43 -18	SE <sub>6</sub> S <sub>5</sub> SW <sub>3</sub> SW <sub>7</sub>	37 44 51		Overcast wind, and rain from 6 am, till noon, afterwards fair, sunny afternoon, but a very stormy evening, gale & hard rain at times. Very strong gale all the night. —	Drat 14 past noon 1 <sup>st</sup> Dr.	19
Su. 4.	-20 -37	SW <sub>3</sub> S <sub>2</sub> S <sub>2</sub>	38 41 43		Wind slowly abated from 3 am, overcast all day, and continual light rain. The evening the same. — But heavy rain at midnight.	42	Floods in the vales.
M. 5.	-89 30.12	NE <sub>6</sub> NE <sub>6</sub> NE <sub>3</sub>	31 31 34		Change of wind to NE, with sleet, and snow, and very blowing all day, and snow heavy at times. 8pm — Still blowing & snowing, but winds rather less. —	28	Snow drifted much.
Tu. 6.	-20 -39	NE <sub>5</sub> NE <sub>3</sub> NE <sub>3</sub>	27 35 37		Overcast and blowing hard, but thawing since midnight, continued cloudy, and thawing. Even less cloudy, and gently freezing, — but sharper afterwards.	31	
W. 7.	-45 -44	NE <sub>2</sub> ENE <sub>1</sub> ENE <sub>6</sub> Var. o.	25 33 35		Cloudy, & frost, continued very cloudy all day, but milder and very little wind. — Evening somewhat clearer, and gentle frost. Wind nearly all gone. Calm & gentle grey frost at night. —	29	Great signs of thaw.
41 8.52		24 6   30 2		Mean temp 39.14. ) Rain cald over — 0.93			



# January 1857.

Jan.	Baro- meter.	Wind.	Thermometer.			Weather &c.	Thermom. 8pm.	notes.	Main.
			low.	8 am.	high.				0.93.
Th. 8.	30.40 -39	S <sub>1</sub> . SSW <sub>2</sub> . SW <sub>2</sub> .	28	33	36	gentle frost, thick, & little snow at 7 am; overcast all day, little thaw; close and foggy evening. —	36		
F. 9.	-28 -05	S <sub>2</sub> . SSE <sub>5</sub> . S <sub>6</sub> .	33	41	43	Thick fog, and thaw, very raw & foggy all day, but the wind rose, and became very gaily all the evening, and some rain, increased to very heavy all night.	43	snow gone.	07
S. 10.	29.64 -54	S <sub>1</sub> . SW <sub>2</sub> . W <sub>1</sub> . W <sub>3</sub> .	38	46	48	Very heavy rain till 5 am, fine and bright most of the day, but stormy sky, and the evening hazy. Very stormy night, rain at times.	40	Full moon 9 am. great clouds.	85
Su. 11.	-01 -33	NW <sub>0</sub> . NW <sub>2</sub> . NW <sub>3</sub> .	38	43	45	Hard rain early am, hazy morning; dark, damp, and lowering all day, with rain at times, and the evening the same; but night finer.	38		37
M. 12.	-33 -25	W <sub>1</sub> . W <sub>0</sub> . Var. o.	33	34	42	Fog, but soon clear, bright all the middle of the day, and till near 4 pm, then became foggy, and the evening fog with frost. —	30		15
Tu. 13.	-52 -72	W <sub>0</sub> . W <sub>2</sub> . W <sub>2</sub> . WNW <sub>2</sub> .	29	32	36	Clear, little frost, but after 9 am, very foggy, continued dark, cold, raw & foggy, the evening the same. Little frost during night, but somewhat cloudy. —	32	The fog frozen on the trees & shrubs.	
W. 14.	-99 30.22	NW <sub>3</sub> . NW <sub>2</sub> . NW <sub>1</sub> . WNW <sub>1</sub> .	31	33	39	Grey frost, flying sands, and cold wind; the middle of the day very bright, and keen air; after 3 again cloudy, but a star light evening, and rather frosty.	33		

416.64 230.5 290 Mean Temp 37.17. ) Carried up - 2.37

# January 1857.

Jan.	Baro- meter.	Wind.	Thermometer.			Weather &c.	Thermom. 8pm.	notes.	Rain.
			low.	8 am.	high.				2.37
Th. 15.	30.15 -05	SW <sub>1</sub> . S <sub>2</sub> . S <sub>1</sub> .	27	33	40	Red and hazy, with frost early, became overcast from 9 am, and rainy afternoon. Dark evening, and misting at times. Night finer.	40	wind to west of ter 8 pm.	16
F. 16.	-12 -24	W <sub>2</sub> . W <sub>2</sub> . W <sub>1</sub> .	32	36	43	Clear, & partial frost: the day at times bright, but some showery rain at 1 pm; again fair, and a star light evening. Very little frost. —	34		02
S. 17.	-35 -40	W <sub>2</sub> . W <sub>1</sub> . SW <sub>0</sub> .	32	34	44	Slight frost & hazy, fair & sunny with hazy clouds, mild afternoon, and very hazy evening, and mild & cloudy night. —	37		
Su. 18.	-35 -32	SW <sub>1</sub> . SW <sub>2</sub> . SW <sub>1</sub> .	37	46	50	Close, mild & cloudy, more or less, all day alike. The evening very close, and much grey cloud, and more wind during the night. —	46	Q. 5 am last Dr. aconite in flower.	
M. 19.	-25 -36	SW <sub>3</sub> . W <sub>2</sub> . W <sub>1</sub> .	41	51	51	Very mild morn, little wet, but very fine & cooler after 10, bright afternoon and clear sunset. — Clear evening & part of night.	36		
Tu. 20.	29.89 -39	SW <sub>4</sub> . S <sub>5</sub> . SE <sub>4</sub> . Var. o.	33	39	43	Stormy & red morn, wind gusty, very lowering and blowing all day, with rain from 3 pm, mingled with snow after 6 pm; became finer & quite calm at 8 pm.	34		22
W. 21.	-55 -71	W <sub>2</sub> . W <sub>1</sub> . W <sub>2</sub> .	31	31	40	Clear, little frost, very fine and bright day, but cold; star light evening, and frosty, with scarcely any wind. Hazy on the west horizon. —	31		

421.73 233 311 Mean Temp 38.85. ) Rain cald over 2.77



# January 1857.

Jan.	Baro. meter	Wind.	Thermometer lowest 8 am highest	Weather &c.	Thermom. 8 pm.	notes.	Rain.
Th. 22.	29.90 -72	W <sub>2</sub> . W <sub>2</sub> . SW <sub>2</sub> . SW <sub>4</sub> .	30 37 40	Most early, then fog, afterwards bright, but hazy, and many watery clouds. Very stormy looking in SW at sunset. - Dark evening, & more wind; - Some rain during night. -	36		2.77
F. 23.	38 -24	SW <sub>3</sub> . WSW <sub>5</sub> . WSW <sub>4</sub> .	35 40 43	Squally sky, and a blowing day, with heavy clouds, & sun, but fine. The Evening chiefly clear, and a brisk wind. Little rain in the night. -	35		04
S. 24.	-13 *04 -15	SW <sub>2</sub> . W <sub>4</sub> . W <sub>4</sub> .	33 40 42	Cloudy, dark, & lowering, with rain & sleet at times, and in the Evening more rainy, and windy, and storms of rain & sleet all night. -	36	Snow early in the morn.	38
Su. 25.	-40 -70	NE <sub>4</sub> . E <sub>4</sub> . E <sub>4</sub> .	34 39 42	Squalls, sleet & rain early, and the same all day at times, cloudy cold, and boisterous, and the Evening nearly as the day. -	36	flood on vales. New moon 11 1/2 pm.	13
M. 26.	-73 Δ 1/2 -88	NE <sub>3</sub> . NE <sub>3</sub> . NE <sub>3</sub> .	32 1/2 35 36	Overcast & snow more or less all day, very dark, and wet, snow melting as it fell. The Evens also snowing, & blowing. -	33	Δ 1/2 rain & sleet with snow.	72
Tu. 27.	-97 3001	NE <sub>2</sub> . NE <sub>1</sub> . N 1/2.	31 33 36	Cloudy, little frost, the ground white with snow: fine & sunny at times, but some sleet and snow showers in the afternoon. Evening clear, and hard frost. -	27		0
W. 28.	29.94 -88	NW <sub>0</sub> . NW <sub>1</sub> . NW <sub>2</sub> .	21 23 34	Clear & sharp frost, chiefly clear till noon, afterwards overcast, & some snow at times: clear evening and very keen frost. More hazy in the night, & more wind. -			0
415.03   216.5   273   Mean Temp 34.96. ) Rain cald up - 3.51.							

# January 1857.

Jan.	Baro. meter	Wind.	Thermometer lowest 8 am highest	Weather &c.	Thermom. 8 pm.	notes.	Rain.
Th. 29.	29.87 -96	NW <sub>2</sub> . NW <sub>1</sub> . NW <sub>2</sub> .	21 26 35	Sharp frost & little hazy, snow at times, but often very fine and bright. Evening more cloudy, less frost, & more wind. -	27		0
F. 30.	-94 -81	SW <sub>2</sub> . SW <sub>1</sub> . S <sub>2</sub> . S <sub>2</sub> .	25 28 35	Cloudy & hazy, rather less of frost, became bright, and very fine all day, sun set red in dusky haze. Cloudy Even, and less frost during the night. -	27	Therm rose at 8 pm. little snow 9 pm.	0
S. 31.	-73 -87	S <sub>2</sub> . SW <sub>1</sub> . SW <sub>0</sub> .	27 36 38	Overcast & snow, at times till 10 am, then fair, and the afternoon bright, but hazy. Thawing till sun-set. Even, clear & frosty. -	28		0
17.918   73   108   Mean Temp 3 days 30.16 ) Total rain - 3.51							

## Results for January 1857.

Barom.	Highest on 7 <sup>th</sup> - 30.45 Lowest on 11 <sup>th</sup> - 29.01 range - 1.44 Mean of Month 29.84	Therm.	Highest on the 1 <sup>st</sup> - 53. Lowest on 28 <sup>th</sup> & 29 <sup>th</sup> - 21. Range - 32 Mean of Month - 36.82 Mean daily range - 9.51
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Fine days 12; rainy 14, snowy 5. Depth of rain 3.51 Inches, and the prevailing winds SW and W.

This month was very unsettled, stormy and wet to the 26<sup>th</sup> day and so far generally mild; but the last five days were cold, and seasonable. No great prevalence of sickness, considering the season.



# February 1857.

Feb.	Baro. inches	Wind.	Thermom. lowest 8 highest	Weather &c.	Thermom. 8pm.	Notes	Rain.
Su. 1.	30.02 -04	W. NW. Var.	20 21 31	Clear, calm, & severe frost, but became foggy, from 9am, and thick rime all day. Evenf the same, and still severe, but moon visible.	22	moon 1.22 8.20 pm.	
M. 2.	29.80 -70	SW. SE. SE.	14 28 36	Extreme frost during past night, and early this morning, clearing at dawn, fog very dense; some sun at 10am, afterwards cloudy, snow at times. Finer after 1pm. Severe night.	28		0
Tu. 3.	-80 30.03	NE. NE. NE.	21 30 32	Severe frost, cloudy, & keen wind; more or less cloudy all day, and continued frost. Less wind in the Evening.	26		
W. 4.	-23 -33	Var. NW. E.	24 25 37	Clear and sharp frost, milder in the day, & little snow from thin clouds. Very clear and frost in the Evening.	25 1/2		0
Th. 5.	-26 -07	S. S. SSW.	21 27 36 1/2	Hazy, & severe frost in the morning, dark and cloudy afternoon, wind gusty, gentle thaw and evening squally and milder with little misting.	36		
F. 6.	29.96 -96	W. SW. SW.	36 40 44	Foggy & mild, thawing all day, clearer & no fog in the afternoon, but cloudy, and the Evening the same.	38	0.74 snow nearly gone.	
S. 7.	-90 -86	SW. S. S. S by E.	36 43 45	Cloudy, mild, wind squally and a very stormy looking sky all day. Arcs of cirrostratus from South in ribbed streaks.	39		
				Evening lowering and windy with slight rain at times.			0.02
41.936			17.25 26.15	Mean Temp 31° ) Rain cal up - 0.02			

# February 1857.

Feb.	Baro. inches	Wind.	Thermom. lowest 8 highest	Weather &c.	Thermom. 8pm.	Notes	Rain.
Su. 8.	29.81 -76	SSE. S. S.	33 36 44	Hazy & cloudy, more or less all day, and a cold & raw wind blowing. Evening at so very cloudy, little misting, & wind gusty.	37	Full moon 11.53. night.	0.02
M. 9.	-82 -70	SE. SE. SE.	35 40 45 1/2	Fine sunny morn, light cirri in streaks, & brisk air; fine drying day, windy, & thin clouds. Hazy evening, and closer night, little wet.	40		0.3
Tu. 10.	-73 -84	S. SW. S.	38 47 51	Cloudy, very mild morn, bright and pleasant from 9am most of the day, but more hazy and cloudy after 3pm, and a mild & hazy Evening.	44		
W. 11.	-90 -99	W. SW. W.	35 1/2 39 50	Clear morning, and fine, and sunny day, with cumuli clouds, & drying wind; dense & knotty clouds from 4 1/2 3pm, and a stormy Even, windy with rain in squalls.		0.29 0.49	0.5
Th. 12.	30.30 -43	W. W. W.	34 39 48	Clear & brisk air, very bright all day, and windy, but a pale haze in the afternoon. Evening a little hazy.	38	Snow. 0.74 in flower. also the aconite.	
F. 13.	-33 -33	W. W. W.	33 1/2 36 45	Clear morn, & brisk wind, became cloudy & thick all the afternoon. Close and milder Evening, less wind.	43	Thrush & other birds tuneful.	
S. 14.	-33 -35	SW. SW. SW.	36 40 45	Mild & calm, cloudy morn, very fine day, grey clouds, and sun, drying air, and gentle wind. Haze at sunset, clear and frosty evening & night.	33	Birds very musical.	
42.032			24.5 32.85	Mean Temp 40.96. ) Rain cal over 0.10			



# February 1857.

Feb.	Baro. meter	Wind.	Thermometer lowest 8 highest	Weather &c.	Thermom. 8 p.m.	Notes.	Rain. 0.10
Su. 15.	30.30 -21	NE. E. E.	29 39 46	Frost early, fine drying day, grey clouds and sun, with keen wind. Evening nearly calm, & stars seen.	38		
M. 16.	-25 -22	SE. SE. SE.	31 37 53	Frosty & bright morn'g, became very warm & pleasant, bright all day, & small drizzle clouds. Clear star light evening.	40	A parkellion at 1 pm - west of ☉	
Tu. 17.	-15 -12	SE. S. S.	35 40 56	Bright morn'g, with red rocky clouds westward. Very bright till 3 pm, & very warm; very electric and dappled from 3 pm: close evening.	46	moon last 25 - 2.19 am. Birds very tuneful.	
W. 18.	-11 -12	S. S. S.	37 44 53	Very close, & few drops of rain, a very electric summer sky! day at times bright, and very warm, but often cloudy, and evening cloudy and electric.	45		
Th. 19.	-22 -29	NW. Var. Var.	35 40 49	Fog more or less all day, very close & calm, clearer at 1 pm, and till 2 pm, but a very thick, close and misting evening.	45		02
F. 20.	-29 -30	S. S. S.	41 44 49	Thick fog, till 10, close day, and cloudy more or less, but very mild, & some sun. Evening clearer, & still mild.	43		
S. 21.	-38 -37	SE. S. S.	34 40 49	Dripping fog, raw & colder, till 10, then cloudy, little rain and milder. The evening mild, thick, & mottled.	47		02
Su. 22.	-39 -32	S. S. SW.	39 43 54	Bright morn'g, with much of ramified cirri. Very bright all day, with cumuli & wind, but very warm. Evening clear, and rather windy. - Red cirri at sunset.	44		
48.4.04		281.4095		Mean Temp - 43.15. Rain cald up 0.14			

# February 1857.

Feb.	Baro- meter	Wind.	Thermometer lowest 8 highest	Weather &c.	Thermometer 8 p.m.	Notes.	Rain. 0.14
M. 23.	30.39 -42	SW. Var. SE.	36 43 52	Streaky beds of cloud, fine and mild day, often bright, but arcs of dappled cloud at times. Clear starlight evening.	42		
Tu. 24.	-40 -33	SE. SE. SE.	33 40 50	Dripping fogs, cold & raw till 10 am, then clearer, very bright afternoon, with parching wind. Clear & cold Even'g, Frosty night.	36	New moon at noon.	
W. 25.	-26 -32	SE. SW. W.	28 33 50	Thick fog, & hour frost, continued foggy till 10, bright noon & till after 3, then cloudy, hazy, and raw: but closer evenings.	41		
Th. 26.	-52 -60	W. NW. N. NE. Var.	32 38 49	Frosty with little fog early; bright morning after sun rise, and mostly bright in the day, but some cumuli at times, and cool wind. The Evening chiefly clear, and inclined to be frosty, but rather hazy during the night.	37	ΔOH primrose flowers.	
F. 27.	-53 -50	SW. SW. SW.	33 40 48	Hazy, and streaked sky, little grey frost early; hazy and cloudy all day, more or less, and a very rainy looking sky, with mottled arcs of cloud, yet continued fine, and a very close evening.	40	*4♀ Birds very musical.	
S. 28.	-57 -62	SW. W. W.	39 45 56	Mild & calm morn'g, light grey clouds, and near the sun rising, a very extensive plane cirrostratus. Very fine sunny day, light clouds, and soft breeze. - Clear & calm sunset, hazy below, and a clear starlight evening.	43	Crocus appear Anemone flowered.	
36.5.46		201.305		Mean Temp 42.166 Total rain only - 0.14			



# Results for February, 1857.

Barometer.		Thermometer.	
Highest on 28 <sup>th</sup>	30.62.	Highest on 17 <sup>th</sup> and 28 <sup>th</sup>	56°.
Lowest on 2 <sup>nd</sup> & 9 <sup>th</sup>	29.70.	Lowest on 2 <sup>nd</sup>	14.
range	0.92	range	42
Mean of Month	30.17.	Mean of Month	39.35.
		Mean daily range	14.53.

Rain only 1/4 of an Inch. Fine days 22. Winds chiefly Southerly.

This was the driest February for many years past, and in this place, I never registered so little rain before as now; and the temperature rather over the common average. — Some days were very fine and pleasant, and excepting the first five days, the whole month was mild, and the little flowers of Spring appeared. — Much sickness, and many deaths among the aged, and also with infants.

# March 1857.

March.	Baro- meter.	Wind.	Thermometer.		Weather, &c.	Thermom. 8pm.	Notes.	Rain
			lowest	8 highest				
Su. 1.	30.65	Var. 0.	32		Hazy, calm, cloudy & little frost early, soon much warmer, very fine day, little sun, & nearly calm, Evening cloudy, more wind, & misting fog at times.			
	-67	NE 1.	38	55				
		NE 2.						
Mo. 2.	-63	E 0.	42		Mild, cloudy & calm, and nearly the same all day, but more wind after 12, and during afternoon. Evening close and calm. —		Crocus in flower.	
	-62	E 2.	46	51				
		ESE 1.						
Tu. 3.	-57	SE 1.	42		Close and mild, very little or no wind, and cloudy all day, more or less. Evening and night hazy, with clouds at times.		☐ h δ moon 1 <sup>st</sup> 2 <sup>nd</sup> 4 1/2 am.	
	-47	SE 1.	46	50				
		W 1.						
W. 4.	-30	SW 3.	37		Foggy, & wind rising, a very blowing day, with dark stormy sky, and real March weather. —			
	-11	WSW 5.	42	52	Black & raggy clouds at sunset, and flying storms 8 pm, then clear & frosty night. —			05
		W 6.						
		NW 5.						
244.02			15.3	20.8	Mean Temp 45.125.		Rain out up	0.05

# March 1857.

March.	Baro- meter.	Wind.	Thermometer.		Weather &c.	Thermom. 8pm.	Notes.	Rain.
			lowest	8 highest				0.05
Th. 5.	30.43	NW 2.	30		Clear & some frost early, forenoon bright, stormy sky and hazy afternoon, little hail at 6, and a blowing evening. —			
	-25	W 4.	35	47				
		SW 5.						
F. 6.	-09	W 2.	41		Hazy, grey clouds, and warmer, a blowing day, with sun, and dusky clouds. Wind ceased at 5 pm, cloudy & hazy evening. —			
	-09	W 5.	48	53				
		W 1.						
S. 7.	-03	W 4.	37		Blustering with hazy sky, & cloud with gleams of Sun, warm afternoon, and some rocky cumuli, the evening very hazy & a wild sky. —			
	29.95	W 3.	43	55	Perfect halo round the moon. —			
		W 1.						
Su. 8.	-67	W 5.	36		Clear, cold & blowing, became very dark & stormy after 9 am, strong gales & rain, followed by hail, and a storm of snow till 11 am, afterwards very stormy with frequent hail from black clouds of dense & spreading appearance. —			03
	-49	W 7.	42	45				
		NW 4.						
		NW 3.						
Mo. 9.	-73	NW 5.	31		Storms of snow, and large hail with furious blasts of wind all day. Evening fine, chiefly clear, & wind much abated; but some sleet in the night. —			00
	-94	N 7.	37	43				
		NNE 7.						
		N 3.						
Tu. 10.	30.71	NW 2.	28		Frost early. The day chiefly fine, with grey clouds and sun, but very cold. The evening calm, and frosty with light clouds. —			Full moon 4 1/4 pm.
	-10	NE 1.	35	42	Sharper frost in the night. —			31
		NE 0.						
W. 11.	-05	Var. 0.	23 1/2		Sharp frost early, cloudy from calm, grey clouds and Sun in the day, very fine, but cold. Evening cloudy and calm. —			34
	-08	SE 1.	34	41	Little frost during night. —			
		S 2.						
		Var. 0.						
420.01			22.65	32.6	Mean Temp 39.46.)		Clear over —	0.08



# March 1857.

March	Baro. meter	Wind.	Thermom. low 8 am high	Weather &c.	Thermom. 8 pm.	Notes.	Rain 0.08
Th. 12.	30.10 -12	NW <sub>1</sub> NW <sub>2</sub> Var. o.	31 36 47	Cloudy, with sun at times, but at 3 1/2 pm. distant falls of hail northward. - Fine and calm Evening. -	37		
F. 13.	-01 29.74	S <sub>3</sub> SSE <sub>6</sub> SSE <sub>6</sub> SE <sub>5</sub> chiefly SSE. all night.	32 40 48	Clear and parching wind, fine day, chiefly sun, with a strong gale, and a pale arc of cloud rising slowly all day in WSW, across the lower current. Dark and some rain from 5 pm. - Very blowing all night. -	36		.05
S. 14.	-22 -18	SSE <sub>7</sub> S <sub>7</sub> SW <sub>8</sub> SW <sub>3</sub>	36 44 56	Very blowing and wet morning, till after 10. Then finer with sun & flying clouds, but a violent gale continued till near 5 pm. Even more severe & arcs of barred or ribbed cloud. Wind again rose at 9 pm. blowing night. -	47	violent gales, from the effects of Jupiter & Mars.	.12
Su. 15.	-30 64.8 -68	W <sub>7</sub> WSW <sub>8</sub> W <sub>5</sub> WSW <sub>4</sub>	44 48 51	Very blowing & hazy morning, bright in the day, but violent gales continued, and storms of rain at a distance, a flying shower here at 3 1/2 pm. Even- ing clear, wind abating. -	40	64.8 Furious gales con- tinued.	.03
M. 16.	30.07 -15	SW <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	35 43 54	Clear morning, and very fine all day, bright, and pleasant, with rocky cumuli. The Even- ing clear and yet mild. -	44	violets in full flower.	
Tu. 17.	-10 29.97	SE <sub>1</sub> SE <sub>4</sub> SE <sub>1</sub>	33 43 53	Very clear, and chiefly so till noon, afterwards cloudy & windy with some sun. - Even- ing more calm, & pleasant. -	43		
W. 18.	-95 Δ 2.8 -97	SE <sub>2</sub> SE <sub>2</sub> SE <sub>1</sub>	41 50 62	Bright morning, & trains of cle- ar cumuli, very warm and bright till noon, close and hazy afternoon, and evening. Yellow butterfly seen; frogs croaking, and brown butterfly also seen. -	50	moon last. See 9 - pm Δ 2.8	
417.56		252	371	Mean Temp 44.5. Rain cal. up - .28			

# March 1857.

March	Baro. meter	Wind.	Thermom. low 8 am high	Weather &c.	Thermom. 8 pm.	Notes.	Rain 0.28
Th. 19.	30.02 -09	SE <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	46 50 57	Cloudy & close morning, little mis- ling, and very close all day, electric & cloudy, with trifling rain at times: Very hazy all night. -	48		
F. 20.	-14 -20	ESE <sub>3</sub> E <sub>4</sub> E <sub>4</sub>	43 46 50	Hazy, cloudy, & colder wind, more or less hazy all day, and some clouds, with gleams of sun, and parching wind. -	41	Equinox.	
S. 21.	-23 -19	E <sub>6</sub> E <sub>5</sub> E <sub>3</sub>	31 38 43	Clear with sharp wind all day, very cold and parching, more clouded at eve, and sleet & snow at 9 pm. and during the night. -	34	Hawthorn leaf open. sleet & snow in the night.	
Su. 22.	29.98 -84	NE <sub>2</sub> N <sub>1</sub> NW <sub>0</sub>	28 35 44	Frost, and falls of sleet with fair intervals, during the morning. The afternoon fine, with rocky clouds and sun. Even- ing fair, & calm, with some clouds. -	34		.02
M. 23.	-78 -80	SW <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	32 39 45	Some clouds & little sleet at times, dark, rocky clouds all day, with some sun, but a very keen air, & frosty night. -	35		.01
Tu. 24.	-79 -77	SE <sub>1</sub> SE <sub>2</sub> E <sub>2</sub>	27 1/2 39 51	Fear frost early, very fine day, with rocky & sun, much warm- er from 11 till 3, but a hazy and cold Even- ing, but milder night. -	38		
W. 25.	-64 -68	ESE <sub>4</sub> SE <sub>3</sub> SE <sub>1</sub>	37 46 49	Cloudy, blue haze, & windy in the morn- g. often lowering, but some sun at 11 am, more clou- dy after 12, slight mist, but a fine & clearer Evening. -	41	New moon 10 1/2 pm.	
Th. 26.	-79 -96	S <sub>1</sub> W <sub>2</sub> W <sub>2</sub> NW <sub>1</sub>	38 44 53	Very fine sunny morning; and a fine day, chiefly sun, and light clouds. Pleasant and warm at 1 1/2 pm. - Evening very cloudy, and sun set very red in much haze. -	43	Colt's foot in flower.	
478.90		2825	392	Mean Temp 42.15. Rain cal. over - 0.31			



# March 1857.

March	Baro meter	Wind.	Thermometer lowest 8 am highest	Weather, &c.	Thermometer 8 pm.	Notes	Rain
F. 27.	30.10 -15	W <sub>1</sub> . NW <sub>2</sub> . NW <sub>1</sub> .	39 44 47	Cloudy morn'g, & little misting. more or less cloudy all day, and little rain at times; and the Even'g cloudy, & closer. —	42		0.31
S. 28.	-74 □○η -73	W <sub>0</sub> . Var. SE <sub>1</sub> .	40 45 48	Cloudy & close, more or less all day, but calm and mild. — Evening rather clearer, but a cloudy night, & little more wind.	44	□○η	
Su. 29.	-02 29.85	SE <sub>2</sub> . SE <sub>3</sub> . SE <sub>3</sub> .	40 46 55	Cloudy morn'g, till after 10, after- wards sunny & warmer, with flying clouds, very hazy about the P. after 3 pm; and the Even- ing hazy & cloudy. —	44		
M. 30.	-50 -30	SE <sub>3</sub> . S <sub>4</sub> . SSE <sub>3</sub> .	43 48 56½	Cloudy with rain from 8 till after 10; and showery afterwards, with sun at times. Lowering Evening, and very close misting night. —	47		.76
Tu. 31.	-30 -47	SW <sub>2</sub> . W <sub>1</sub> . W <sub>2</sub> .	44 50 53	Close, dark, & misting morn'g, very close day, black clouds, and Thunder in the N, at 2½ pm; and in W & P. afterwards, very loud in SE, at 7¼ pm. —	47	Thunder near Sp. wick, & Southward also at Redgrave.	.07
297.96			206.2595	Mean Temp 46.55. ) Total rain +			0.59

## Results for March 1857.

Barometer.	
Highest on the 1 <sup>st</sup> —	30.67.
Lowest on the 14 <sup>th</sup> —	29.18.
range —	1.49
Mean of Month —	29.97

Thermometer.	
Highest on the 18 <sup>th</sup> —	62°
Lowest on the 11 <sup>th</sup> —	23½
range —	38½
Mean of Month —	43.55
Mean daily range —	14.40

Rain 0.59 of In. Fine days 20; Prevailing winds SE, & W.

This month was a medium in temperature, but rather dry than otherwise, although heavy winds at times. Vegetation neither late nor very early, but on a mean, and not so much sickness as usual at this period. —

# APRIL 1857.

April.	Baro meter	Wind.	Thermometer lowest 9 am highest	Weather &c.	Thermometer 8 pm.	Notes	Rain.
W. 1.	29.60 -52	SW <sub>1</sub> . S <sub>2</sub> . S <sub>1</sub> .	41 50 56½	Light clouds, & mild air, bright in the day, but rocky and electric clouds. Even'g very hazy & moon dim. Wet night. —	50	Moon 1 <sup>st</sup> Dr. 1½ pm. willow (cowslip leaf open. flowers.	
Th. 2.	-37 -50	SE <sub>4</sub> . S <sub>5</sub> . S <sub>2</sub> .	43 53 58	Rainy morn'g till 9, lowering & windy till noon, fine sunny afternoon, with rocky cumuli, and brisk wind. Squally look- ing sky all the Evening, but a clear night. —	49	Sycamore leaf.	.73
F. 3.	-68 -80	SE <sub>1</sub> . SE <sub>2</sub> . S <sub>0</sub> . S <sub>0</sub> .	40 53 58½	Clear morn'g, but soon cloudy & lowering till noon, brighter afternoon, rocky & electric, with distant showers. Close evening, and dark clouds in knotted & electric forms, — warm night. —	52		
S. 4.	-92 □η♀ -90	SSE <sub>1</sub> . SE <sub>2</sub> . SE <sub>3</sub> .	44 54 60	Very warm, little haze & light clouds fair & warm till after 2 pm, but very hazy, and a cloudy and rainy even'g, and night, and very warm. —	50	□η♀ H. Chesnut leaf.	.20
Su. 5.	-88 -77	SE <sub>1</sub> . SE <sub>2</sub> . SE <sub>1</sub> .	48 56 64	Hard rain all the morning; and till 9½ am; then fair & very warm with mixed clouds, close & electric evening, and night, and nearly calm. —	53		.41
M. 6.	-74 -86	SE <sub>1</sub> . SE <sub>0</sub> . SW <sub>1</sub> .	49 59 65	Very close & hazy, with dappled sky & sun; hot afternoon, and many electric clouds. Evening dappled and hazy. West rocky groups Eastward at 5½ pm. — Foggy night, but very fine. —	54	Wryneck heard.	
Tu. 7.	30.01 -04	SW <sub>1</sub> . W <sub>2</sub> . W <sub>2</sub> . SW <sub>1</sub> .	47 56 63	Chiefly bright & very warm, with electric clouds in beautiful forms, rocky heads intersected by bars of cirrostratus. A sudden show- er at 6 pm, and lightning & thunder Northward all the Eve- ning, and many electric clouds in various points. —	53	Thunder & lightning in NW & N. 7 at 8 pm.	.04
416.59			312.425	Mean Temp 52.64. ) Rain cal' over			0.78



# APRIL 1857.

April.	Baro- meter	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain 0.78
W. 8.	30.07 29.94	SW <sub>2</sub> . SW <sub>2</sub> . SW <sub>2</sub> . S <sub>1</sub> .	44 56 63	Bright morn'g; and very warm sunny day, till 4 pm, then heavy clouds and distant showers in W, & NW. Even'g hazy and cloudy.		Some distant Thunder - P.M.	
Th. 9.	-83 -69	SE <sub>1</sub> . S <sub>2</sub> . SSE <sub>1</sub> . SE <sub>0</sub> .	45 55 60	Foggy morn'g till 7½ am, then cloudy & stormy sky, followed by a heavy shower from SW at 11 am, fair, bright & warm after-noon. Calm & mild Even'g, but hazy.		Full moon 9½ am. 31	
Good Friday. 10 <sup>th</sup>	-61 -57	Var. o. W <sub>1</sub> . SE <sub>1</sub> . SE <sub>2</sub> .	43 51 62	Fog till 9, cloudy till 11, then bright, and very warm till near sunset, but rocky & electric. Even'g foggy from 7 pm, and the night more or less the same.		Lightning in West. at Eve.	
S. 11.	-55 64.8	SE <sub>1</sub> . W <sub>2</sub> . NW <sub>2</sub> . S <sub>1</sub> .	42 48 49	Hard rain from 6 am till after 9 am, then finer, but very cloudy & cooler. Evening fine but hazy, and wind returned to southerly quarter.	64.8		43
Su. 12.	-57 60.4	SW <sub>2</sub> . W <sub>2</sub> . W <sub>1</sub> . SW <sub>2</sub> .	35 44 50	Clear morn'g, but soon lowering with hail & rain, many distant storms with Thunder at noon, bright afternoon, but much of storm-clouds gliding round. Even'g cloudy, & rain at 9 pm.	60.4	Thunder at noon in S.W. Lightning in S. at 8 pm.	10 12
M. 13.	28.99 29.11	W <sub>2</sub> . W <sub>3</sub> . W <sub>2</sub> .	35 39 47	Overcast, rain & sleet, but finer after 9 am; cold and cloudy day but little sun, and a very dark and stormy sky. Evening cloudy & very cold; some rain at intervals in the night.			04 07
Tu. 14.	-30 -58	WNW <sub>3</sub> . NW <sub>2</sub> . Var. o. W <sub>0</sub> .	36 42 47	Cold, lowering morn'g; and gloomy with light showers till 4 pm, afterwards fine with some sun, and rather a hazy sky. - Night clear and rather frosty.		* h δ	04

413.83 280 378.5 Mean Temp 47° 03. - Rain cald up = 1.89

# APRIL 1857.

April.	Baro- meter	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 1.89
W. 15.	29.66 -73	SW <sub>2</sub> . SW <sub>2</sub> . SW <sub>1</sub> .	33 49 56	Bright morn'g, and chiefly so till 2 pm, then dark rocky clouds & distant Thunder in SE. Hazy Even'g, but clear upward, and no wind after 8 pm.		Thunder SE. 2 pm Ipswich & Woodbridge.	
Th. 16.	-92 30.00	S <sub>1</sub> . SSE <sub>2</sub> . SE <sub>1</sub> .	34 52 55	Clear morn'g, and fair & sunny day, but distant rains & very dense rocky clouds, and more rocky all the Even'g - from SW, to SE, but night clearer.		Cuckoo sang.	
F. 17.	-10 -10	SE <sub>1</sub> . S <sub>2</sub> . SSE <sub>3</sub> .	34 51 56	Clear morn'g, but many loose cumuli after 8 am, fine & parching day, sun, clouds, & wind. Evening chiefly clear, but some cirri in West. Breeze all night.		Moon last Dec. at noon.	
S. 18.	-12 -10	SSE <sub>2</sub> . SE <sub>3</sub> . SE <sub>1</sub> .	44 59 67	Hazy but bright, and very warm, continued very bright, and warm, brisk parching wind, and a few dappled lines of cloud. - Clear night & fresh breeze.		Swallow seen. poplar leaf.	
Su. 19.	-02 -22	SE <sub>2</sub> . SE <sub>2</sub> . SW <sub>3</sub> . SW <sub>1</sub> .	46 63 73	Bright and very hot, with a parching breeze, and cumuli clouds in the afternoon. - Electric jagged cumuli with rocky mists all the Even'g.		* h δ maple leaf.	
M. 20.	-33 -33	W <sub>1</sub> . W <sub>2</sub> . W <sub>1</sub> .	42 60 68	Clear morn'g, day bright, and very warm, with cumuli, and some cirri. Even'g cloudy, and electric, with a little rain 7½ pm, for a minute or two, but finer after.			
Tu. 21.	-32 -32	W <sub>3</sub> . NW <sub>2</sub> . Var. o.	43 58 62	Fair with cirri & sun, some rocky clouds, distant showers - and a heavy shower here at 1 pm & some hail. afterwards very bright afternoon, but the Even'g very hazy.		68.8	04

421.27 276.4375 Mean Temp 50° 96. ) Rain cald over 1.93



# APRIL 1857.

April.	Baro. meter	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 1.93
W. 22.	30.18 -10	W <sub>1</sub> NW <sub>1</sub> NW <sub>2</sub>	46 51 52	Cloudy & gentle rain from 7 am, till about 1 pm, then fine, but cloudy more or less, and cooler evening. Fine & clearer during the night.	45		.21
Th. 23.	-07 -15	NW <sub>3</sub> NE <sub>3</sub> NE <sub>2</sub>	41 47 49	Bright with stormy groups at a distance, cold wind and much cloud in the day, little hail, & sun at times. Evenng clear in part, and very cold.	36	singular lines of cirrus at 7 am from NW to SE, in zenith.	
F. 24.	-17 -02	NE <sub>3</sub> NE <sub>3</sub> SE <sub>2</sub>	35 45 48	Cloudy more or less, and very cold, very little rain & sleet at times, & but little sun. Evenng very cloudy, and not so cold.	38	New moon 7 am.	
S. 25.	29.92 -82	SE <sub>1</sub> E <sub>2</sub> E <sub>4</sub>	38 45 49	Cloudy more or less, cold, and some showers of hail, and rain in the afternoon and evening; and after 8 pm more wind, and heavy storm at 9 1/2 pm.	39		.06 .08
Sa. 26.	30.00 -12	NE <sub>4</sub> NE <sub>4</sub> NE <sub>3</sub>	35 40 44	Cloudy & cold wind, very dark, cold and blowing day, little hail & rain at times: the evening near the same, very cloudy, cold, and unpleasant. — Less wind in the night.	37	δ ♀ ♂	.02
M. 27.	-15 -20	N <sub>2</sub> NE <sub>2</sub> NE <sub>1</sub>	36 43 47	Cloudy more or less all day, and cold wind, but a little sun at times after 5 pm; — some hail at a distance in the west during Evenng, and a little rain here at 10 pm.	40		
Tu. 28.	-17 -15	NE <sub>1</sub> NE <sub>2</sub> E <sub>0</sub>	37 44 50	Cloudy and very cool wind; became clearer after 2 pm, loose cumuli clouds, & sun at times. The Evening nearly clear, calm and frosty inclined. — Night clear & sharp frost for the season.	39	δ ♀ ♂	
42122			26.8 33.95	Mean Temp 43° 39'. — ) Rain cald up — 2.30			

# APRIL 1857.

April.	Baro. meter	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 2.30
W. 29.	30.17 *0h -15	NW <sub>1</sub> N <sub>2</sub> NE <sub>1</sub>	27 46 49	Clear morn, sharp frost, very ungenial; some clouds from 9 am, and many dark clouds with hail at times during the day. Cloudy Evening, but fine. Night closer & less cold.	41	*0h	
Th. 30.	-19 -21	NW <sub>1</sub> NE <sub>2</sub> Var. o. NE <sub>1</sub>	37 48 51	Clouds & sun, fine morn till 10, then shower with hail, and sun at times. Fine after 2 pm, & more pleasant, but a shower at 5 1/2 pm, and cloudy Evening.	43		.04
12072			64 100	Mean Temp 29° 30' 41'. — ) Total rain — 2.34			

## Results for April 1857.

Barometer.	
Highest on the 20 <sup>th</sup> —	30.33.
Lowest on — 13 <sup>th</sup> —	28.99.
Range —	1.34
Mean of Month —	29.89.

Thermometer.	
Highest on 19 <sup>th</sup> —	73°.
Lowest on 29 <sup>th</sup> —	27.
Range —	46
Mean of Month —	48.0
Mean daily range —	16.0.

Rain 2.34 Inches: Fine days 16: Prevailing winds SE to SW.

This month was variable, but general warm and conducive to vegetation, during the first and third weeks; but the last week proved ungenial, commencing the usual train of Easterly winds, which became a great check upon the growing crops &c. Considerable sickness in many places, from the usual effects of such changes on the lungs of young & old; and Scarlatina Maligna, with Cynanche prevalent.



# MAY 1857.

May.	Baro. metes	Wind.	Thermometer lowest 9 highest a.m.	Weather, &c.	Thermom. 8 p.m.	Notes	Rain.
F. 1.	30.22 -20	NE <sub>1</sub> E <sub>1</sub> E <sub>1</sub>	41 49 55	Cloudy, more or less, little sun, & cool wind, brighter after 2 p.m., but many courses of cloud, and rather hazy in the Evening. —	moon. 1st. 2nd midnight		
S. 2.	-22 -26	E <sub>1</sub> E <sub>2</sub> E <sub>1</sub>	39 51 53	Clouds & sun, rocky & electric with cool breeze, and little showers at a distance. Evening clear, and a frosty night, calm & clear. —	trifling showers here at 6 p.m.		.01
Su. 3.	-29 -28	NE <sub>1</sub> NE <sub>3</sub> NE <sub>a</sub>	32 51 54	Clear & cold morn'g, continued fair with cumuli and sun till 11 a.m. cloudy noon, showery at 2 p.m. cold & cloudy afternoon; clear and colder Even'g, but cloudy & closer during the night. —	light showers at 2 p.m.		.03
M. 4.	-27 -32	NE <sub>2</sub> NE <sub>2</sub> NE <sub>1</sub>	36 50 53	Cloudy with some sun, loose clouds & little flying rain at times, about 10 a.m., afterwards fair with cumuli, & sun, but cold wind. Clear sun-set. —			
Tu. 5.	-35 -37	NE <sub>1</sub> N <sub>2</sub> NE <sub>1</sub>	33 50 53	Very clear morn'g, but after 9- cloudy with sun, a fine day and many cumuli clouds, with sun, & cool breeze. — some clouds during evening, night mostly clear. —			
W. 6.	-35 -37	NE <sub>1</sub> ENE <sub>2</sub> ENE <sub>1</sub>	36 52 56	Bright with many cumuli very fine all day, but a cool wind & many clouds at times. The Evening clear, and cool, but the night less keen than of late. —			
Th. 7.	-34 -28	NE <sub>1</sub> ENE <sub>2</sub> ENE <sub>1</sub>	37 52 55	Clear but soon cloudy, more or less, with sun at times, and keen wind. Rocky cu- mulostate in the afternoon, and more electric. — some fog during night. —			
424.12			254 379.5	Mean Temp 45.25.)		Rain cald up - 0.04	

# MAY 1857.

May.	Baro. metes	Wind.	Thermometer lowest 9 highest a.m.	Weather, &c.	Thermom. 8 p.m.	Notes	Rain. 0.04.
F. 8.	-22 -13	NE <sub>1</sub> E <sub>2</sub> E <sub>2</sub>	36 55 60	Fog early, cleared at 6 a.m., very bright & warmer from 7 a.m., a parching & sunny day, with cumuli & cirri collapsing on them. Even'g clear & orange @ set. —			
S. 9.	-01 29.98	E <sub>3</sub> E <sub>3</sub> ESE <sub>2</sub>	38 57 63	Bright with electric jagged clouds from SE - a very parching day, bright & much warmer. - Even'g clear, with strong electric haze. Night more hazy. —		Full moon, 2 a.m., few drops of rain 11 a.m.	
Su. 10.	-90 -87	E <sub>2</sub> E <sub>3</sub> E <sub>3</sub>	41 55 57	Hazy & electric with much of the undulated cirrostratus, and lower clouds, with sun, but some rain at 2 p.m., afterwards fine with much cloud & little sun, and a very cloudy Even'g. —		little rain at 2 p.m.	.01
M. 11.	-82 -90	E <sub>2</sub> ESE <sub>1</sub> E <sub>1</sub>	48 57 67	Cloudy, little rain at 6 & 7 a.m., bright & hot from 11 till 4, and at 6 - some distant thunder- clouds in the West & South. Squalls followed from East. —		Upper current of clouds from SE & S, all day,	.05
Tu. 12.	30.05 -20	SE <sub>1</sub> SW <sub>1</sub> SW <sub>2</sub>	45 62 70	Fog early, bright and very warm from 7 a.m., and the afternoon very hot and sultry, with strong blue haze, & electric sky, very sultry & close Even'g. —		Birds very tuneful.	
W. 13.	-23 -20	SW <sub>1</sub> SW <sub>1</sub> SE <sub>2</sub>	56 63 71	Very close morn'g, & gentle rain, at 2 a.m. & 6 a.m., cleared after 10 a.m. very hot & close, with sun, & black clouds. A little cooler breeze af- ter 4 p.m., - and the Evening cloud- y with a breeze continuing. —		Dark in leaf.	.05
Th. 14.	-20 -19	SE <sub>4</sub> E <sub>3</sub> E <sub>3</sub> SE <sub>1</sub>	49 61 68	Brisk wind, & sun, with fleecy clouds in the morn'g, but after 9 a.m. very clear and hot, with a parching breeze, and the Evening chiefly clear, but less wind. — Very fine night. —			
420.90			313 456	Mean Temp 54.92. —		Rain cald over = 0.15	



# MAY 1857.

May.	Baro- meter	Wind.	Thermometer lowest 9 a.m. highest	Weather, &c.	Thermom. 8 p.m.	Notes.	0.15
F. 15.	30.21	SE <sub>1</sub> SE <sub>2</sub> S <sub>0</sub>	48 67 78	Clear & very hot with fresh breeze after 12, but the heat great till 3 pm; black with Thunder in the North at 6 pm; close evening, & calm with electric clouds, and lightning all night.	63	Distant Thunder clouds in NW-4 pm. Hawthorn flowers in leaf Moon last 26. 11 pm.	0.15
S. 16.	30.	SW <sub>0</sub> SW <sub>1</sub> SW <sub>0</sub>	51 64 74	Very close & electric, little shower at 7 am, fine day & very hot with a haze & much dark electric cloud and distant Thunder. The evening and night very close.	61		0.2
Su. 17.	22 20	SE <sub>1</sub> SW <sub>1</sub> W <sub>1</sub>	53 67 77	Close & hazy till after 8, then bright and very hot, so continued all day, with small cumuli clouds. Very clear Evening, and pure golden sunset. Night clear.	64		
M. 18.	19 10	W <sub>1</sub> SW <sub>2</sub> S <sub>1</sub> W <sub>2</sub>	45 68 76	Clear morn'g, a very hot day, with sun and mixed clouds, winds changeable between W & S. Evening rather hazy, with cirri, and very sultry.	65	Ash in leaf.	
Tu. 19.	10 08	W <sub>2</sub> W <sub>2</sub> W <sub>1</sub>	53 64 72	Hazy & plane cirrostrati in the morning, fine and hot, with cumuli and sun. Evening very sultry, and rather hazy, with a soft mottled state of clouds.	65		
W. 20.	02 29.87	SW <sub>3</sub> S <sub>3</sub> S <sub>2</sub> SSE <sub>1</sub>	54 66 77	Thin clouds, & sun, with warm breeze, became very hot & bright from 9 a.m., and a brisk wind. Black and electric all the Evening, much Thunder & quick lightning nearly all the night in W, SW, S, and SE, - to NE.	68	vivid lightning about midnight & more or less all night.	
Th. 21.	87 85	SW <sub>2</sub> S <sub>3</sub> S <sub>1</sub> SW <sub>1</sub>	56 68 73	Hazy & electric, very hot all the morning, but after 10 became more cloudy, stormy sky, wind & electrical clouds increased, little flying rain at 3 pm, afterwards hazy, and wind less. The night fine but hazy.	63		0.1
42.53		36.05275		Mean Temp 63.39 Rain cald up - 0.18			

# MAY 1857.

May.	Baro- meter	Wind.	Thermometer lowest 9 a.m. highest	Weather, &c.	Thermom. 8 p.m.	Notes.	0.18
F. 22.	30.01	SW <sub>1</sub> W <sub>1</sub> Var. 0. NE <sub>1</sub>	53 62 63	Hazy but fine till after 10 a.m., afterwards gentle rain till near 6 pm, finer Evening, but lowering and cooler. Night foggy and close.	51		44
S. 23.	82 71	NE <sub>1</sub> E <sub>1</sub> SE <sub>1</sub>	50 60 72	Foggy and close till 11 am, after sunny & very hot, with electric clouds. Very sultry Evening, and distant lightning in S, followed by rain during night.	66	New moon 2 3/4 pm. much distant lightning in the E-10 pm.	
Su. 24.	61 76	SSE <sub>1</sub> SW <sub>3</sub> SW <sub>2</sub>	57 61 66	Cloudy, rain at times between 5 & 9 a.m. cloudy till 1 pm, afterwards bright and pleasant, with cumuli clouds. Bright evening, few light clouds.	60		10 0.5
M. 25.	74 61	SE <sub>1</sub> SE <sub>3</sub> E <sub>3</sub>	47 61 72	Bright but hazy, with electric sky and dappled clouds, wind brisk in the afternoon, but very hot. A black arc of cloud rising in S from 3 pm, followed by rain at 9 pm and distant lightning.	59	lightning 8 pm - in S.	25
Tu. 26.	70 84	SE <sub>2</sub> SE <sub>2</sub> SE <sub>2</sub>	51 63 69	Bright morn'g, and fine day, with much cloud, and hot sun. Evening nearly calm, hazy, with cirri, and very pleasant, night also fine & hazy.	61		
W. 27.	90 93	SE <sub>1</sub> SW <sub>2</sub> SW <sub>2</sub> 0.	49 64 73	Hazy but bright, became very hot, and chiefly very bright all day, with electric cumuli. Evening calm, hazy, & close, and mist on vales after 9 pm.	63	Trees and hedges in fullest splendour.	
Th. 28.	97 30.00	W <sub>0</sub> SE <sub>1</sub> E <sub>2</sub> NE <sub>2</sub>	47 67 73	Little fog early, bright & calm, after 6, very hot and clear till noon, then much cloud, rocky electric, and some black cumulostrati. Evening cloudy, with a general veil of low sand, and cool breeze.	55		
41.758		35.4489		Mean Temp 60.21. - Rain cald over - 1.02			



# MAY 1857.

May.	Baro. metes	Wind.	Thermometer lowest 9 highest	Weather, &c.	Thermom. at 8 pm.	Notes	Rain 1' 02
F. 29.	30.07	NE <sub>1</sub> E <sub>0</sub> NE <sub>2</sub>	50 60 66	grey clouds & sun, very close, and calm all day, clouds become more dense, and rocky, and the Evening also very cloudy, and little more wind.	57		
S. 30.	-13	NE <sub>2</sub> N <sub>2</sub> N <sub>2</sub>	53 58 59	Cloudy, and lowering; much cooler, and gentle rain at times; finer after 2pm, and the Evening clearer, as also the night and very cool.	55	moon 1 <sup>st</sup> 2 <sup>nd</sup> 1. 12 pm.	.04
Su. 31. Whitsun.	-19 -22	NE <sub>2</sub> E <sub>3</sub> E <sub>2</sub>	47 1/2 62 66	Clear morn'g, and a parching breeze, very bright till noon, afterwards some cumuli at times, & brisk wind continued. — Evening clear, and cool for the Season.	53	68 1/2	

180.88 150.5 191 Mean Temp 3 days 56.91. Total Rain — 1.06.

## Results for May 1857.

Barometer.	Thermometer.
Highest on the 5 <sup>th</sup> & 6 <sup>th</sup> — 30.37	Highest on the 15 <sup>th</sup> — 78°
Lowest on the 24 <sup>th</sup> — 29.61	Lowest on 3 <sup>rd</sup> morn'g — 32°
range — 0.76	range — 46
Mean of Month — 30.08.	Mean of month — 56.36
	Mean daily range — 19.72

Prevailing winds E. NE, & SE. Rain 1.06 Inch. Fine days 21.

This month was dry with us to the 22<sup>nd</sup>, and a very warm and growing time from the 11<sup>th</sup> to the end, especially from the 15<sup>th</sup> day. The warmest May for 9 years past, and vegetation forward.

# JUNE 1857.

June.	Baro. metes	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes	Rain.
M. 1.	30.19	E <sub>1</sub> SE <sub>2</sub> E <sub>1</sub>	43 65 68	Clear & cool early, but much warmer after sunrise, small electric cumuli & crossed by plane cirri, but bright all day, and the Evening quite clear, and golden sunset. Very cool night.	54		
Tu. 2.	-07	SE <sub>1</sub> SE <sub>2</sub> S <sub>1</sub>	39 65 72	Clear, very cool early, but soon became changed. Electric cumuli on plane cirri, bright and hot after 10 am, with small electric clouds. Evening hazy, & some dark clouds in West. Closer night.	61		
W. 3.	-06	S <sub>1</sub> SW <sub>3</sub> SW <sub>2</sub>	51 65 72	Blue haze, and cloudy till noon. Little rain at times. Bright & hot afternoon, rocky cumuli, & brisk wind. Very warm Evening, and electric storms at a distance southerly.	66	Dog-rose in flower. Thunder 15 miles South 7 pm.	.01
Th. 4.	-22	SW <sub>2</sub> SW <sub>3</sub> SE <sub>1</sub>	56 68 76	Close with light clouds, very hot and bright after 8 am; with a brisk air. Evening sultry hazy and calm. — Close night, little wind at 10 pm.	69		
F. 5.	-27	SSE <sub>2</sub> S <sub>2</sub> SE <sub>1</sub>	53 75 83	Bright with cirri, and very hot; continued very bright, and extremely hot, with a parching breeze. Hazy & sultry night, very electric, and lightning at a distant point SW.	72	Distant lightning during night.	
S. 6.	-18	SE <sub>1</sub> Var. o. SW <sub>1</sub>	59 78 87	Very electric knotty cumulo-cirri, & very hot, became bright, and excited some heat from 9 am, till 2 pm, afterwards dark clouds, and heavy thunder storm from S, followed by a rainy Evening till 7 pm.	65	Thunder at 3 am in W. — Sharp storm 5 pm — & hail.	.32 .41
Su. 7.	-08	E <sub>1/2</sub> SE <sub>1</sub> SW <sub>3</sub> SSW <sub>2</sub>	57 63 71	Hard rain from 5 am, till 8 am, then close with low clouds, and haze, rain again near noon, afternoon fair, and some sun, with a sultry air. Bright Evening, but hazy about horizon, and a very sultry air.	65	60 1/2 Full moon 5. 23 pm.	.30 .08

421.94 358 529 Mean Temp 63° 35. — ) Rain cal over 1.12



# JUNE 1857.

June.	Baro. meter	Wind.	Thermom. low 9 high 12	Thermom. 8 pm.	Notes.	Rain. 1 12
M. 8.	29.87	SW <sub>4</sub> SW <sub>5</sub> SW <sub>2</sub>	56 63 67		Windy morn <sup>g</sup> , & clouds flying, but warm; a blowing day, with flying showers, and sun at times. Fine Evening, less wind, but very stormy clouds on horizon. Fine night.	06
Tu. 9.	29.90	SW <sub>3</sub> W <sub>2</sub> SW <sub>2</sub> SW <sub>2</sub>	52 62 67		Flying clouds & sun, showery at noon. Fair & sunny between 2 & 4 pm. but the evening lowering with heavy clouds followed by rain at 7 1/2 pm, & stormy night.	08
W. 10.	29.70	SW <sub>2</sub> SW <sub>2</sub> W <sub>2</sub>	51 61 66		Heavy rain at 1 & 2 am, fair and sunny forenoon; stormy after 4 pm, and violent thunder, severe lightning & much rain 3 pm; Evening finer, but thunder at a distance.	47 26
Th. 11.	29.88 30.09	W <sub>3</sub> NW <sub>4</sub> NW <sub>1</sub>	51 59 65		Flying showers, distant thunder, & sun at times. Afternoon finer, more sun, and drying wind. Evening chiefly bright, and the wind nearly calm. Fine night.	05
F. 12.	29.27 30.37	NW <sub>2</sub> E <sub>1</sub> E <sub>1</sub> E <sub>0</sub>	44 60 62		Bright & dewy morn <sup>g</sup> , rocky clouds followed, little showery at times from Eastward, & sun between. Fine and bright Evening, but cool, and a very cool, calm, and clear night.	07
S. 13.	29.44 30.39	E <sub>0</sub> E <sub>1</sub> SE <sub>1</sub>	38 1/2 59 68		Very clear & cool early. Partially inclined to congelation of dew! Very fine and bright all day, and a brilliant sunset. The night clear, calm & cool.	05
Su. 14.	29.32 30.22	SE <sub>1</sub> SE <sub>2</sub> SE <sub>3</sub> 2...1.	41 61 68		Clear, very bright and parching day, a few cumuli in the forenoon, afterwards quite clear, & brisk air. Evening also very clear, and much less wind. Night the same.	55
42084		3335 4635		Mean temp 56.92. — Rain carried up — 2.11		

# JUNE 1857.

June.	Baro. meter	Wind.	Thermom. low 9 high 12	Thermom. 8 pm.	Notes.	Rain. 2 11
M. 15.	30.17	E <sub>2</sub> E <sub>4</sub> E <sub>2</sub>	49 62 67		Very bright & parching all day, with raggy cumuli and blustering wind. Clear sun-set less wind. Few plane clouds at a distance.	06
Tu. 16.	30.10	NE <sub>3</sub> NE <sub>4</sub> ENE <sub>3</sub>	47 65 66 1/2		Grey cumuli & sun, with parching wind: more electric after 9 am, many mixed clouds, rocky, and some dark, but sun mostly shining. The evening more cloudy & rocky, and cloudy night, — few rain drops.	56
W. 17.	30.18	NE <sub>2</sub> NE <sub>3</sub> NE <sub>1</sub>	52 61 68		Cloudy & hazy, but bright in the afternoon, warm & parching, with lighter electric clouds. Bright Evening, much cirrus, and less wind. Night rather hazy.	57
Th. 18.	30.34	NE <sub>3</sub> NE <sub>2</sub> NE <sub>3</sub>	51 56 64		Cloudy with low clouds till noon, afterwards mostly bright, with light clouds. Evening chiefly bright with a very cool wind & small clouds.	55
F. 19.	30.29	ENE <sub>2</sub> E <sub>3</sub> E <sub>2</sub>	50 72 78		Bright and very hot, with a parching breeze, and scarcely a cloud; rapid rise of temperature to day. Sultry evening, and electric groups in S.W. — Very close with distant lightning.	69
S. 20.	30.17	SE <sub>1</sub> E <sub>1</sub> SE <sub>1</sub>	60 73 80		Black in S.W. with much thunder at 7 am: passed off to West. Very hot, and bright from 8 am, with curled electric clouds at times; Hazy Evening & dark in the South. Close night, and some rain at midnight.	70
Su. 21.	30.11	SE <sub>0</sub> W <sub>1</sub> W <sub>1</sub> Var. 0.	59 73 81		Supplied. electric, & sultry, became bright and very hot; continued so till 1 1/2 pm, afterwards dark, with a very heavy shower of large drops ending with gentler rain at 4 pm. — Afterwards a fine, bright, and hot Evening.	67
42275		368 5045		Mean Temp 62.32 ) Rain carried over — 2.56		



# JUNE 1857.

June.	Baro- meter.	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain 2.56
M. 22.	30.27 -33	NW. NW. SE.	55 62 75	Cloudy morn'g, became bright af- ter 10 am; continued very bright, and hot, scarcely any wind, & no cloud all the afternoon. Splendid orange sunset, mist on the valleys. —	68	Foggy night	
Tu. 23.	-35 -40	E. E. E.	56 73 83	Fog early, bright after 6, and very hot and clear all day. Evening quite clear, & calm, with a brilliant orange sun- set. — Twilight strong.	70		
W. 24.	-42 -49	E. E. E.	52 76 83	Quite clear, sun rose salmon co- loured; extremely hot & bright, but more wind after 12 noon. Evens also very clear, but the wind gone. —	68	10 am 80° 11 am 82° 1 pm 83°	
Th. 25.	-52 -56	E. E. E.	52 78 86	Quite clear, and excessively hot, with very little wind; Evening clear & calm, with a pure orange sunset, and very rosy twilight. —	71	10 am 81° 11 am 83° noon 85° 2 pm 86° 5 pm 80°	
F. 26.	-52 -41	E. ESE. SE.	52 77 86	Clear, & sunrise salmon tint; no wind, excessively hot all day, but little more wind after 1 pm. Evens quite clear, pure golden sunset, & very hot. — Hazy on NW horizon after sunset. —	71	11 am 83° 1 pm 86° 2 pm 84°	
S. 27.	-31 -22	SE. SW. W. Var.	55 78 88	Very bright with small electric clouds, and excessively hot, with scarce- ly any wind. Thermometer 88° from 1 till nearly 3 pm. — Evens oppressive, & sun set in red haze, clouds more electric, 9 pm SW 74°. Hot night. —	77	10 am 82° 11 am 85° noon 87° 2 pm 88°! 4 pm 85° 5 pm 83°	
Su. 28.	-11 29.92	SSW. SW. SW. SE.	60 81 91	Rozy sun-rise, an enchanting mor- ning, very bright, but from 7 am became most excessively hot, with small electric cumuli, which much increased PM. Mixed electric clouds all the evening, few rain drops, hazy, very sultry, and some very distant lightning, & Thunder N. —	78	10 am 84° 11 am 87° noon 89° 1 pm 90° 2 pm 91°! 4 pm 87° 5 pm 85° 6 pm 83°	
42.483				382.5925	Mean Temp 69° 60! Rain can up 2.56		

\* the hottest  
day for many  
years.

# JUNE 1857.

June.	Baro- meter.	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain 2.56
M. 29.	29.88 -81	SW. SW. SW.	64 70 74	Lowering, sultry & windy, dusky cu- muli & mixed clouds, very rocky dark clouds in the afternoon, but bright after 4 pm. Fine sunny Evens, with stormy clouds at a distance. —	68	Moon 1 <sup>st</sup> Du <sup>2</sup> 4 <sup>th</sup> 20 am.	
Tu. 30.	-77 -72	SW. S. S. Var.	61 67 72	Little rain 4 am, mixed electric clouds, very rocky and showery with sun at times; but from 2 pm, very heavy continual showers, with lightning, and thunder. Evens finer, but much cloud. —	60	very heavy thunder showers all pm.	1.05
112.78				Mean Temp 29° 4 30° 67.75 Total rain — 3.61.			

## Results for June 1857.

Barometer.	Thermometer.
Highest on the 25 <sup>th</sup> — 30.56	Highest on the 28 <sup>th</sup> — 91°!
Lowest on the 10 <sup>th</sup> — 29.67	Lowest on 13 <sup>th</sup> morn'g — 38.5
Range — 0.89	Range — 52.5
Mean of Month — 30.109.	Mean of month — 64.0
	Mean daily range — 22.3.

Winds chiefly SW. E; & SE. — Fine days 21. Rain 3.61 inches. —

This month although changeable, was remarkable for its heat, especially that of the fourth week, which exceeded what is usual in this Climate, and beyond any for the last eleven years! — A splendid hay-time, and the Crop was mostly a fair one. Much also was well secured during the time. The Therm on 28<sup>th</sup> near London & Greenwich, was about 92½, and at Worcester 93°! Some deaths from the heat in various districts.



# JULY 1857.

July.	Baro- meter	Wind.	Thermometer lowest 9 highest am.	Weather, &c.	Thermom- eter 8 pm.	Notes.	Rain.
W. 1.	29.83 30.07	E <sub>0</sub> . NE <sub>2</sub> . NE <sub>3</sub> .	58 64 64	Close & lowering from East, very heavy rain about 9 am. from NE, for 1/2 an hour; afterwards fine, but very cloudy. The Evening clearer, but much cooler than of late. —	55		32
Th. 2.	-16 *04 -18	NE <sub>2</sub> . N <sub>1</sub> . Var <sub>0</sub> .	53 61 63	Cloudy more or less, but fair, clearer after 5 pm, bright evening, but rocky in P.M. — Fine night and partially a clear sky. —	59	*04	
F. 3.	-15 -09	SW <sub>1</sub> . SW <sub>2</sub> . S <sub>1</sub> .	51 65 67 1/2	Cloudy, more electric and close, but fine and very pleasant, with soft & gentle breeze. — Hazy evening, little rain and close night. —	61		
S. 4.	-02 29.98	S <sub>3</sub> . SW <sub>2</sub> . SW <sub>1</sub> .	58 64 68	Overcast & rainy morning, heavy showers during the day, distant thunder, & sun at times; the Evening also showery till 7 pm. afterwards bright. —	62		27 12
Su. 5.	-95 -81	SW <sub>1</sub> . S <sub>2</sub> . SW <sub>2</sub> .	59 67 72	Lowering morn'g, but bright after 8, and very warm. Fine & sultry till after 2 pm, then a little rain at times. Evening fair, but a very stormy sky, electric & sultry all night. —	65	light shower early a.m.	07
M. 6.	-73 -82	SW <sub>3</sub> . W <sub>3</sub> . SW <sub>1</sub> .	60 65 68	Close & lowering, & became rocky & electric, followed by heavy rain from 10 am, till 1/4 past, then fine & bright with very electric cumuli & cumulostrati in West. — Fine night and cooler. —	58		73
Tu. 7.	-95 30.03	W <sub>2</sub> . W <sub>3</sub> . W <sub>2</sub> .	52 59 63 1/2	Cloudy, wind rather squally, but fine. Much cloud, and very dark and threatening, with a cool breeze, and little sun at times. Evening much clearer, and a cool night. —	58	Full moon 6 1/4 am.	

41.9.76 391 466.5 Mean Temp 61° 25. — ) Rain cal up 0.91

# JULY 1857.

July.	Baro- meter	Wind.	Thermometer lowest 9 highest am.	Weather &c.	Thermometer 8 pm.	Notes.	Rain.
W. 8.	30.03 -04	W <sub>2</sub> . W <sub>2</sub> . W <sub>2</sub> .	50 59 63 1/2	Cloudy more or less, with little sun, cool breeze, & black clouds; Evening rather clearer, and less wind. Very red raggy clouds at sunset. —	59		
Th. 9.	-00 -02	W <sub>3</sub> . W <sub>2</sub> . W <sub>1</sub> .	52 59 65	Flying clouds and sun, more cloudy & cool from 9 till 1 pm, afterwards more sun and very pleasant, dappled evening. — Clear night, except haze. —	60		
F. 10.	-03 -07	W <sub>2</sub> . WSW <sub>2</sub> . SW <sub>1</sub> .	49 65 73 1/2	Bright at first, but much cloud after 6 am. Again bright after 10, very electric & hot. Dark rocky clouds in the evening — distant falls of rain & a little here. — Close night. —	68	Sultry Evening very electric.	01
S. 11.	-12 -24	WSW <sub>2</sub> . W <sub>2</sub> . W <sub>2</sub> .	60 70 72	Sultry morn'g, & very electric mixed clouds, bright and very hot after 9 am, & till noon. Heavy shower at 2 pm: afterwards fair and sultry. Hazy sky & light cir- ci. Fine night & nearly clear. —	67	very electric cur- bled sky after 3 pm.	07
Su. 12.	-35 -39	W <sub>1</sub> . WSW <sub>2</sub> . SW <sub>1</sub> . SW <sub>0</sub> .	58 72 83	Bright and very hot with a fresh breeze, & a few light clouds. The heat much increased towards evening, pure golden sunset, no wind, and oppressively hot. — Clear night although so high a temperature. —	76	11 am 79° noon 81° 1 pm 83° and so till 4 pm. & at 5 pm 82°.	
M. 13.	-43 -45	SW <sub>0</sub> . SW <sub>2</sub> . SW <sub>0</sub> .	60 75 83	Quite clear, and continued bright, & extremely hot, but more wind & electric cumuli. Evening very bright and calm, and a very sunset. Clear night and no wind. —	73	11 1/2 am 80° noon 82° 2 pm 83°	
Tu. 14.	-46 *48 88 1/2 -39	Var. 0. S E. S E.	56 74 81	Fleecy clouds, calm & hot morn'g, very hot day, chiefly bright, but a mixture of small electric clouds in a SW current upwards, while a lower breeze at SE set in at 3 pm. Clear evening, red sun set. —	70	* 48 88 1/2 moon last 20 1 pm.	

42.3.02 385.521 Mean Temp 64° 71. ) Rain cal over 0.99



# JULY 1857.

July.	Baro. meter	Wind.	Thermom. lowest 9 highest	Natural Occurrences.	Thermom. 8pm.	notes.	Rain.
W. 15.	30.2	SSE.	60	Electric & knotty cumuli, with sun & very hot, became more electric, and excessively hot all the p.m. Very distant Thunder at times. Hazy with cirri at sun-set. Some very distant lightning in night.	77	*48 The 87° at noon. 87½° at 11. distant Thunder.	0.99
Th. 16.	-02	SW.	58	Bright with small electric clouds, dappled arcs and dense cumuli but very hot. Showery at a little distance in several points, & beautiful rocky clouds. Evens very heavy, little rain.	72	distant Thunder	0.02
F. 17.	-13	SW.	56	Clear morn'g, afterwards light clouds flying, sunny and hot day, sudden eddies of wind whirling up light objects. Evens very sultry, and dark knotty electric clouds.	69	whirl-wind at 3pm, carried long half a mile.	
S. 18.	-30	W.	61	Electric & finely curdled, bright & very hot day, but many small electric clouds. Evens black and rocky, with dense haze, and very sultry, 10 pm 70°!	72		
Su. 19.	-33	W.	59	Electric & heavy, but soon bright, and heat increasing much, excessively sultry and close, electric jagged clouds, & powerful sun at times. Evens bright, very beautiful curdled sky, & orange & set.	74	corn fields yellow in ripening.	
M. 20.	-12	SE.	62	Bright with electric clouds, wind again veered to W. 8 am, extremely hot all day, and some light clouds & more wind. Sunset partially clouded, & a fresh breeze, with very electric sky.	77	10 am 80° 11 am 83° noon 85° 1½ 2 pm 86°	
Tu. 21.	-20	W.	59	Clear & fresh breeze, but soon some clouds, hot & close, more hazy and cloudy with more wind, from 12 noon. Very hazy and lowering from 2 pm, and wind gusty with gentle rain at times. - very sultry night.	71	New moon 6.12 am.	0.03
422.48		4155 5633		Mean Temp 69.92! Rain cal. up 1.04			

# JULY 1857.

July.	Baro. meter	Wind.	Thermom. lowest 9 highest	Natural Occurrences.	Thermom. 8pm.	notes.	Rain
W. 22.	30.7	SW.	63	Rain from 4 till 6 am, very sultry air; fine in the day, wind gusty but very hot, and dark & rocky clouds; wind fell away after 3 pm. Close & hazy with rocky groups. Fine night.	70		37
Th. 23.	-14	W.	55	Hazy & cloudy, little rain at 9 am, afterwards very hot with close air, mixed clouds & sun. The Evening sultry, but clearer about sunset.	66		0.03
F. 24.	-05	SW.	62	Bright with fresh breeze, and became very brisk & gusty, but extremely hot, electric mixed clouds & sun. The at 6 pm 80°, Arcs of plane cirrostratus & mottled sky from SW to NE. Sultry night.	74		
S. 25.	29.88	SW.	64	Sultry morn'g, and mottled streaks across the sky; cloudy & flying rain at 10 & 11 am; afterwards sunny & very hot, with rocky clouds. Bright Evens, but some headed cumuli cirri.	70		0.05
Su. 26.	-12	WSW.	53	Clear with light cirri early. Sunny and hot till 11, then very hazy, little rain at times, but a few minutes. After 3 pm, again bright with electric clouds. - but very hazy & streaked in SW.	71		
M. 27.	-07	SW.	58	Cloudy, with very little rain 7 am, very electric mixed clouds all day, but at times bright, very hot & sultry. Stormy sky all the Evens, & very sultry with rain at 8 pm, heavy at 9.	69		0.82
Tu. 28.	-02	SW.	63	Heavy storms of rain during all last night, and lowering with showers at 8 & 9 am, afterwards fair, bright and hot, with cumuli clouds. Calm evens rosy sunset. Clear night, and no wind.	66		0.07
420.80		418 5465		Mean temp 68.89! Rain cal. over 2.38			



# JULY 1857.

July.	Baro. meter	Wind	Thermom. lowest 9 am	Thermom. highest 9 am	Natural Occurrences.	Thermom. 8 pm	notes	Rain.
W. 29.	30.30 -26	Var. o. Var. o. SSE. SE.	52	68 77	Clear & calm morning; hot, clear, and calm till 3 pm, then a breeze from SSE. Hazy and electric in S. & SW, all the evening, and very close night, but less haze.	67		2.38.
Th 30.	-17 □ 4 ♀ -15	SW. W. W.	58	72 78	Bright, with thin grey haze; chiefly so all day, and very hot, with cumuli clouds, & more wind. Hazy and sultry evening.	71	□ 4 ♀	
F. 31.	-16 -19	W. W. W.	64	72 80	Hazy mottled and close, very fine and hot day, chiefly bright after 12, with light clouds, and brisk wind. Clear evening less wind, & golden ☉ set.	73	Harvest in full progress.	

18723 1745 235 Mean temp 3 days 68.25 Total rain 2.38

## Results for July 1857.

Barometer.		Thermometer.	
Highest on the 14 <sup>th</sup>	30.46	Highest on the 15 <sup>th</sup>	87.2
Lowest on the 6 <sup>th</sup>	29.73	Lowest on 10 <sup>th</sup> morn	49°
Range	0.73	Range	38.2
Mean of Month	30.117	Mean daily range	17.72
		Mean of month	66.6!

Rain 2.38 in. Fine days 19. Prevailing winds SW, and W.

This was a most splendid summer month, remarkable for its great heat, and very like the previous month. The temperature nearly 4° above average. Corn harvest in full operation and crops luxuriant and earlier ripe than for 11 yrs past. In Somersetshire, four men died from the heat in the fields about the 15<sup>th</sup> or 20<sup>th</sup> of July, one also in London, and some other cases occurred!

# AUGUST 1857.

August.	Baro. meter	Wind	Thermom. lowest 9 am	Thermom. highest 9 am	Natural Occurrences.	Thermom. 8 pm	notes	Rain.
S. 1.	30.23 -21	SW. SW. SW.	60	67 76	Bright & rosy sunrise, but from 7 am, became lightly overcast, and the same till noon, then bright and hot with electric clouds. Sultry evening, & night.	72		
Su. 2.	-26 -27	SW. SW. SW.	63	75 79	Bright and extremely hot, all the morn, but from 11 am, became cloudy & excessively sultry and close. Evening bright with rocky clouds & very hot.	73	very rocky headed clouds in NW, at sun set. Highly electric.	
M. 3.	-22 -10	SSW. S. SSE.	64	77 87	Bright and extreme heat, but a fresh breeze after 12 from SSE, at times. Very electric clouds all the evening, rocky & dappled about the moon, and very sultry all the night.	73	10 am 81° 11 am 84° noon 86° 2 pm 87° 6 pm 80°	
Tu. 4.	-05 -13 -10	SE. W. WSW. Var. o.	64	80 91	Bright and excessively hot, very little wind, & scarcely a cloud. but after 2 pm, hazy in S. & SE, and became dark, and electric with distant thunder in SE, & E, from 3 till 7 pm. - 10 pm the 72°.	77	10 am 83° 11 am 85° noon 88° 1 pm 90° 2 pm 91° and in sun 126°	Has and the 28 <sup>th</sup> of June the hottest for 11 years past.
W. 5.	-06 -01	SE. W. SW. SW.	65	71 73	Foggy morn, & very sultry; gentle rain from 9 am till noon: very rocky clouds all the afternoon, & sun at times: foggy night, & very electric in upper clouds. Lightning during night.	68	Full moon 6.28 pm.	15
Th. 6.	29.91 -88	E. SE. S. SW.	63	67 75	Heavy rain, thunder, & lightning at 4 1/2 to 5 am. Cloudy & rain at times after 7, fine sunny & hot afternoon, and bright evening with rocky clouds. Misty night, & very electric.	66	Thunder N.W. 5 pm.	45 08
F. 7.	-85 □ 0 4 -82	S. SE. SE. S.	58	67 70	Shower at 4 am, foggy morn, bright from 8 am, very rocky clouds. Very heavy shower at 12. Fine afternoon & some sun but a showery evening, close night - distant lightning in SW.	62	□ 0 4 Thunder N.W. 1 pm and SE at 7 pm.	07 25 06

420.97 438.5 551 Mean Temp 70.67. Rain cal over 1.06



# AUGUST 1857.

Aug.	Baro. meter	Wind.	Thermom. lowest 9 highest am pm	Natural Occurrences.	Thermom. 8 pm.	Notes.	Rain. 1.06
S. 8.	29.82	S $\frac{1}{2}$ .	58	Foggy & lowering morn'g. some sun & fair during forenoon, but much cloud, shower at 1 pm, and sharp thunder, afterwards heavy continued rain & thunder, till 9 pm. Night finer.	60	thunder lightning and rain all pm.	1.17
	-85	S E $\frac{1}{2}$ .	64				
		Var. $\frac{1}{2}$ .	68				
		SW $\frac{1}{2}$ .					
Su. 9.	-89	SW $\frac{1}{2}$ .	56	Cloudy till noon, afterwards sun at times, & hot with rocky clouds, thunder W. & NW. 3 1/4 pm. & nearer with sharp lightning at 4 1/2 pm; fine, calm even, and more settled. - Night fine.	62	thunder from W to N. from 3 to 4 pm. & here at 4 1/2.	05
	30.03	W $\frac{1}{2}$ .	62				
		W $\frac{1}{2}$ .	70				
		SW $\frac{1}{2}$ .					
M. 10.	-18	W $\frac{1}{2}$ .	52	Bright till 6 am, then fog till near 10, afterwards bright & hot, with small cumuli. Calm after-noon and Evening, mottled sky, & rather electric.	62	* ♂ H	
	-26	W $\frac{1}{2}$ .	62				
		W $\frac{1}{2}$ .	74				
		W $\frac{1}{2}$ .					
Tu. 11.	-28	W $\frac{1}{2}$ .	60	Close, with streaked and dappled sky, the middle of the day clearer and very hot, sultry & calm, Evening cloudy calm & hot. Shower at 10 pm, mostly local.	70	very close and sultry air.	15
	-29	SW $\frac{1}{2}$ .	70				
		SW $\frac{1}{2}$ .	74				
		Var. $\frac{1}{2}$ .					
W. 12.	-29	SW $\frac{1}{2}$ .	62	Sultry & electric morn'g, bright day, very rocky cumuli, no wind and very hot. Breeze set in at 3 1/2 pm. Towering electric cumuli. Close evening, some fog during night.	71	moon last Dr. 5. 41 pm.	
	-25	W $\frac{1}{2}$ .	72				
		SE $\frac{1}{2}$ .	80				
Th. 13.	-18	SE $\frac{1}{2}$ .	60	Foggy till 8, afterwards bright and very hot, with electric light clouds, in dappled beds, and from 4 pm more electric & thundering from NW, across the lower current. Much lightning even.	68	Quick lightning westward from 8 1/2 pm. all night.	
	-02	SE $\frac{1}{2}$ .	71				
		E $\frac{1}{2}$ .	80				
F. 14.	29.91	E $\frac{1}{2}$ .	62	Thunder & lightning westward, rainy morn'g, & very sultry, more or less rain till 11 am, and distant thunder. Finer afternoon but much cloud. Very vivid lightning all the evening in the West from 8 pm.	66	rain from before 1 am, and at times till 11 am.	1.17
	-87	SE $\frac{1}{2}$ .	66				
	-89	SE $\frac{1}{2}$ .	72			much lightning in West 8 & 9 pm.	
42172			410 5183	Mean Temp 66° 32.)	Rain cal' over	3.25	

# AUGUST 1857.

Aug.	Baro. meter	Wind.	Thermom. lowest 9 highest am pm	Natural Occurrences.	Thermom. 8 pm.	Notes.	Rain. 3.25
S. 15.	29.93	SW $\frac{1}{2}$ .	55	Bright morn'g, light clouds & haze, hot & calm but hazy, and more so after 2 pm. Thick & close, with a few drops at times after 3. very close and cloudy, Evening. -	65		02
	30.02	S $\frac{1}{2}$ .	65				
		Var. $\frac{1}{2}$ .	73				
Su. 16.	29.96	NE $\frac{1}{2}$ .	64	Clear, with a hot breeze, although NE; continued very bright, and very hot with brisk wind. Clear sunset and less wind. Light scuds in the night, but fair & drying. -	67		
	30.09	ENE $\frac{1}{2}$ .	75				
		NE $\frac{1}{2}$ .	79				
M. 17.	-11	NE $\frac{1}{2}$ .	58	Light scuds & sun, very fine, and pleasant day, cooler breeze, but still warm. Evening rather cloudy, but a very fine night with grey skies. -	63	Δ 4 ♀	
	-17	N $\frac{1}{2}$ .	66				
		NW $\frac{1}{2}$ .	68				
Tu. 18.	-21	NW $\frac{1}{2}$ .	59	Bright with light clouds, hot and clear at 9 am, but soon became cloudy more or less, with intervals of sun. - Even'g brighter, with light clouds. -	67		
	-26	N $\frac{1}{2}$ .	67				
		N $\frac{1}{2}$ .					
W. 19.	-26	N $\frac{1}{2}$ .	58	Cloudy & cool breeze, but very fine, and sun at short intervals, Evening close with slight misting at 6 pm, afterwards fairer, and beautiful. Sunset, undulated red streaks in NW & W. -	63	new moon 4. 26 pm.	
	-29	NE $\frac{1}{2}$ .	63				
		NE $\frac{1}{2}$ .	69				
Th. 20.	-28	NE $\frac{1}{2}$ .	63	Cloudy & foggy or misting morn'g, but very sultry. Low drifting mist, & sun at times. Nearly the same all day, but very warm. The evening cloudy, and cooler, yet fine, and less wind. -	66		
	-30	NE $\frac{1}{2}$ .	71				
		NE $\frac{1}{2}$ .					
F. 21.	-28	NE $\frac{1}{2}$ .	60	Grey clouds, and sun, and soon fewer clouds, chiefly bright, and hot, with a fresh breeze. The evening cloudy with grey clouds, & close air, becoming somewhat foggy and electric during the night. -	65	* 4 ♀ □ ○ H	
	-24	NE $\frac{1}{2}$ .	66				
		ENE $\frac{1}{2}$ .	73				
		E $\frac{1}{2}$ .					
42240			417 500	Mean Temp 65° 50)	Rain cal' over	3.27	



# AUGUST 1857.

August	Baro. meter	Wind.	Thermom. lowest 9 highest am	Natural Occurrences.	Thermom. 8pm.	Notes.	Rain. 3.27
S. 22.	30.22	E <sub>2</sub> .	61/2	Foggy & sultry morn'g; bright from 10 am, & very hot, and parching. Lovely Evening and deep orange sunset. very hot night & light breeze	72	* 7/8	
	-14	E <sub>3</sub> .	68				
		E <sub>1</sub> .	81				
Su. 23.	-07	SE <sub>1</sub> .	66	Clear & splendid, & rise. very bright and excessively hot, till noon, afterwards a brisk air, but not a cloud. Sun set splendidly in golden tint, very hot night, fresh breeze, & vivid Meteor.	75		
	-00	E <sub>2</sub> .	80				
		E <sub>3</sub> .	84				
		E <sub>2</sub> .					
M. 24.	-00	SE <sub>2</sub> .	67	Very bright & excessive hot, with a fresh breeze. Some dappled & ribbed clouds in delicate arcs across zenith. 3 pm. - clear night & some meteors.	72		
	-02	SE <sub>2</sub> .	77				
		E <sub>1</sub> .	81				
Tu. 25.	-07	SE <sub>0</sub> .	64	Very bright with electric knotted clouds at sunrise, excessively hot all day, mostly bright, but some denser cumuli after 11 am. and many dark electric clouds all the evening. Night clear.	74		
	-27	SE <sub>1</sub> .	79				
		SE <sub>1</sub> .	86 1/2				
W. 26.	-37	SW <sub>0</sub> .	61	Very bright, and very hot, but a cooler breeze in the forenoon, again calm & extremely hot after 12. Evening rather cooler, little breeze, and fog rising.	70		
	-41	NW <sub>2</sub> .	72				
		W <sub>0</sub> .	82				
		SE <sub>2</sub> .					
Th. 27.	-48	Var. <sub>0</sub> .	57	Fog till 6, very bright, and very hot, with a cooler breeze at times, and light beds of cloud of the cirri kind. 3 pm. Mottled red clouds very beautiful at sunset.	67		
	-40	W <sub>1</sub> .	69				
		W <sub>1</sub> .	78				
		NE <sub>1</sub> .					
F. 28.	-42	NW <sub>1</sub> .	52	Clear, calm, & dewy morning, loose cumuli came on, and cooler breeze, followed by low clouds & little flying rain at times about noon. Closer afternoon & cloudy evening but very fine.	63		
	-40	N <sub>2</sub> .	65				
		N <sub>2</sub> .	68				
		N <sub>1</sub> .					
423.27			428.5 560.5	Mean temp 70° 64)		Rain cald up 3.27	

# AUGUST 1857.

August	Baro. meter	Wind.	Thermom. lowest 9 highest am	Natural Occurrences.	Thermom. 8pm.	Notes.	Rain. 3.27
S. 29.	30.37	N <sub>1</sub> .	57	Cloudy with sun, and little misting at times, but mostly fair and very pleasant. -		δ 7/8	
	-29	NE <sub>1</sub> .	64	Close evening, and dark mottled clouds. - Warm night. -	64		01
		NE <sub>1</sub> .	67				
Su. 30.	-25	E <sub>1</sub> .	60	Bright with electric clouds, and very hot morn'g; continued very bright and heat increased. Evening quite clear also, and sun set in pure golden lustre.	67		
	-19	E <sub>2</sub> .	70				
		E <sub>0</sub> .	78				
M. 31.	-12	E <sub>0</sub> .	58	Fog till 7 am, very bright and very hot afterwards, small clouds in upper current from SW, and black groups rising there all the evening, very electric & dappled upward.	69	Distant lightning evening.	
	-12	E <sub>1</sub> .	72				
		Var. <sub>0</sub> .	79				
181.34			175 224	Mean temp 3 days 66° 5.-)		Total rain -	3.28.

## Results for August 1857.

Barometer	Thermometer.
Highest on the 27 <sup>th</sup> - 30.48	Highest on the 4 <sup>th</sup> - 91°!
Lowest on 7 <sup>th</sup> & 8 <sup>th</sup> - 29.82	Lowest on 10 <sup>th</sup> & 28 <sup>th</sup> am - 52° -
Range - 0.66	Range - 39.00
Mean of Month - 30.14	Mean daily range - 14° 90.
	Mean of Month - 68° 11°!

Rain 3.28 - Inches. Fine days 24. - Prevailing winds - the SW, SE, and NE.

This month was notable for its excessive heat, and almost general fineness, for although the rain for a very short period, was great, yet we had 24 days very fine, and splendid harvest weather. - Crops very abundant, good, and mostly well secured. The harvest generally ended about the 22<sup>nd</sup> day! How four years of plenty in succession, let God's name be praised, and a National in-  
 cause of gratitude be offered up!



September 1857.

Sept.	Baro. meter.	Wind.	Thermometer 9 a.m.	Thermometer 8 p.m.	Natural Occurrences.	Notes.	Rain.
Tu. 1.	30.08 29.98	SW <sub>0</sub> . SW <sub>2</sub> . W <sub>2</sub> .	58 68 73		Foggy morn'g, but cleared off to sun and grey clouds; electric mixed clouds after 10, and some dark, and heavy, with thunder at noon in S. shower of big drops at 3; - seen set very old in thick haze. -	Distant Thunder 5 a.m. and at noon in the S.	.02
W. 2.	-79 -71	SW <sub>2</sub> . W <sub>2</sub> . W <sub>1</sub> .	58 58 62		Stormy skies, and frequent showers in the forenoon, and at noon; cloudy also & much cooler, and the evening showery and very hazy and stormy sky. -		.29 .03
Th. 3.	-70 -74	SE <sub>1</sub> . SE <sub>2</sub> . S <sub>1</sub> .	51 61 64		Lowering and stormy sky at first, clearer & fair from 9 a.m., but much cloud of mixed kinds, & rocky electric groups, flying rain & sun. And a lingering shower after 5 p.m.	Some Thunder at 2 a.m.	.04 .07
F. 4.	-70 -78	E <sub>1</sub> . SW <sub>1</sub> . S <sub>2</sub> . SW <sub>1</sub> .	54 63 67		Thunder & heavy rain 4 a.m. and dark & showery at 7, bright forenoon, with rocky clouds. Much thunder all the afternoon, & distant storms. Fine evening, and night, but some clouds, - & fog after 12.	Full moon 5 a.m. 13 ships killed by lightning at Higham Hall 4 p.m.	.49
S. 5.	-85 -96	SW <sub>1</sub> . SW <sub>2</sub> . SW <sub>1</sub> .	53 63 71		Bright morn'g, and mostly so in the day, but many rocky clouds, and electric mixed groups. Dark and rocky in West at and after sunset. Night foggy. -		.64
Sa. 6.	30.00 30.00	SW <sub>1</sub> . SW <sub>1</sub> . SW <sub>1</sub> .	55 66 74		Fog, but soon cleared off, few drops 7 a.m., bright & hot, with electric mixed clouds, and thunder at a little distance. - 1 to 2 p.m. - Bright even'g, but very rocky clouds, much lightning - 8 p.m. N & N.E. -	Thunder NW & N 2 p.m.	.048
M. 7.	30.00 29.99	SW <sub>1</sub> . SW <sub>1</sub> . SW <sub>0</sub> . S <sub>0</sub> .	57 67 72		Fog early, bright after 6, and very hot, with electric clouds, continued fair, but showers at a distance & very rocky & dense clouds all the evening. - Very electric and distant lightning W. & S. - after 7 p.m. -	Thunder showers at a great distance.	.64
418.28		386.483		Mean Temp 62.07.) Rain calcd up .094			

September 1857.

Sept.	Baro- meter	Wind.	Thermomts. lowest 9 highest am	Natural Occurrences.	Thermomts. 8 pm	Notes.	Rain.
Tu 8.	29.82 Δ04 -60	SE <sub>1</sub> S <sub>1</sub> S <sub>5</sub>	60 67 70	Lowering & sultry morn'g, rain at times, finer about 11, but harder rain from 1 pm. Squally & rainy afterwards, till 5 pm. - Fine sunny Even'g, but windy, & flying clouds.	63	Δ04 lightning in SE. 8 pm.	0.94 37
W. 9.	-74 -80	SW <sub>2</sub> SSE <sub>2</sub> S <sub>2</sub>	57 65 70	Bright with flying clouds, fair till noon, then showery and soggy clouds with sun at times. Very sultry air, and at 8 pm, hard shower and distant lightning.	63	Thunder SE. 1 pm.	70 11
Th 10.	-84 -90	S <sub>2</sub> SW <sub>2</sub> S <sub>1</sub> Var. o.	59 65 72	Bright morn'g, with light clouds, slight mist at 9, then fair, very hot, & bright, with rocky cumuli. Hazy and soggy Even'g, but fine and very warm.	63	moon last 22 10. 50 pm	
F. 11.	-61 -72	NW <sub>5</sub> N <sub>6</sub> NW <sub>5</sub> W <sub>4</sub>	58 58 62	Heavy rain from 3 to 5 am, and squalls of wind, with stormy rain again after 6, and a blowing and rainy day. The rain at times heavy, and very little abated till after sunset. Gentler rain till ceased 9 pm.	58		35 89
S. 12.	-78 -90	SW <sub>2</sub> SW <sub>2</sub> SW <sub>0</sub>	57 62 69	Cloudy but soon became bright, and very warm, with rocky clouds till 2 pm, then showery & distant thunder, till 3 1/2 pm, afterwards fine calm, and sunny. Mist on the valley at 8 pm. Lightning SE.	61	Lightning in SE. 8 pm.	07
Su. 13.	-99 30.72	S <sub>1/2</sub> SW <sub>1/2</sub> SW <sub>1</sub> W <sub>1/2</sub>	54 62 70	Fog till 7, and again very thick after 8 till near 10, afterwards sunny, and hot, with cumuli clouds. Sun set in haze, and thicker haze rising from S. - Fine sight, stars clear above. Mist below.	63	great mist on valley 7 pm.	
M. 14.	-77 -25	SW <sub>1/2</sub> SSW <sub>1</sub> S <sub>1</sub>	55 62 68	Very hazy with few rain drops in the morn'g till 10. cloudy more or less the rest of the day, but fair, and rather clearer in the Evening, but the night sultry, & foggy.	62		
41824			400 481	Mean temp 62° 92.)			Rain carried over - 2.83



# September 1857.

Sept.	Baro. meter	Wind.	Thermometer low 9 high am	Natural Occurrences.	Thermometer 8 pm.	Notes.	Rain. 2.83
Tu. 15.	30.32 -35	SW <sub>2</sub> . SW <sub>1</sub> . SW <sub>0</sub> .	61 68 73	Foggy & close, till 8 am, then bright and very hot, with mixed electric clouds; more cloudy and sultry in the afternoon, and a very close evening. —	67		
W. 16.	-37 -39	SW <sub>2</sub> . SW <sub>1</sub> . S <sub>0</sub> .	59 69 76	Very fine, close morning, and then red haze, — very hot day, with clouds and sun. — Very sultry evening and rosy haze. — Exceedingly fine weather. —	68	Hedges abounded with very ripe fruit.	
Th. 17.	-39 -36	S <sub>0</sub> . SW <sub>1</sub> . SW <sub>0</sub> .	57 70 80	Exceedingly fine, bright, & very hot, no cloud & but gentle wind. Purest golden sunset, hot, calm and splendid evening, and night; truly summer still. —	70		
F. 18.	-32 -37	WSW <sub>1</sub> . W <sub>2</sub> . NW <sub>3</sub> . N <sub>2</sub> .	60 68 72	Arcs of cloud after sunrise, bright morning, but wind veering at 8, rather cooler, but still hot. Very fine & sunny, but much cooler after 1 pm, and the evening still more so, and less wind. —	59	New moon 5-33 a.m.	
S. 19.	-47 -50	NW <sub>1</sub> . N <sub>3</sub> . NE <sub>2</sub> . NE <sub>1</sub> .	53 61 63	Clear, very bright at first, but soon cloudy, and continued so more or less, with cool wind, and but little sun. Closer evening, and less wind. —	59	Horse-chesnut leaves fading much.	
Su. 20.	-52 -49	E <sub>1</sub> . E <sub>1</sub> . SE <sub>1</sub> .	55 64 70	Calm & pleasant, light clouds, & sun, much warmer again; very bright after 10 am, & so all day, very hot sun, & little cool breeze at times. Very clear evening, yellow sunset and a cool sky. —	55	Gossamer abounds on meadows & stubbles abundant fruit on hedges.	
M. 21.	-40 -36	SE <sub>0</sub> . W <sub>1</sub> . NW <sub>1</sub> . NE <sub>2</sub> . NE <sub>2</sub> .	45 56 66	Very clear, heavy dew and cool morning, bright forenoon & warm & pleasant. Afternoon cloudy more or less, but fair. Evening very cloudy, and closer. The night also very warm, & quite cloudy. —	61		

42.561 390 500 Mean Temp 63.57! ) Rain card up - 2.83

# September 1857.

Sept.	Baro. meter	Wind.	Thermometer low 9 high am	Natural Occurrences.	Thermometer 8 pm.	Notes.	Rain. 2.83
Tu. 22.	30.37 -33	NE <sub>1</sub> . NE <sub>1</sub> . NE <sub>1</sub> .	56 62 66	Grey clouds & close morning, very fine & pleasant day, but lightly cloudy, & gentle wind. The evening nearly the same. —	59		
W. 23.	-30 -22	E <sub>0</sub> . E <sub>3</sub> . E <sub>2</sub> .	56 62 67	Calm & close morning, wind rose after 8 am, fine & bright day, cumuli clouds, & parching wind. Sun set clear, and saffron coloured. —	55	Equinox 2-33 am.	
Th. 24.	-07 -02	SE <sub>2</sub> . SE <sub>2</sub> . SE <sub>2</sub> .	55 62 71	Hazy, & electric clouds, but partially bright, very hot & sunny all the mid-day, and much thunder & heavy rocky groups westerly from 3 to 5 pm. Much lightning in S.W. & 9 pm. —	64	Severe thunder from 3 to 5 pm, in W. & NW.	
F. 25.	29.98 -97	S <sub>1</sub> . S <sub>2</sub> . SW <sub>2</sub> . SW <sub>1</sub> .	62 67 72	Very sultry, and heavy shower at 6 am, fair & hot thence till 3 pm, afterwards showery with thunder at a distance. Very rocky about the setting sun, & red electric sky. Foggy night. —	62	Thunder loud at 4 a.m.	20 08
S. 26.	30.07 -03	NW <sub>1</sub> . W <sub>1</sub> . W <sub>0</sub> . SW <sub>1</sub> .	57 60 68	Cloudy, little fog; became clear, bright day, & very warm, with light clouds in mottled arcs. More hazy & streaked sky after 3 pm. — Fine night, and wind gradually rising. —	60	Moon 1 <sup>st</sup> Dr. 9 am.	
Su. 27.	-01 29.99	SW <sub>3</sub> . SW <sub>5</sub> . SW <sub>3</sub> .	54 64 70	Blowing, but very warm and fine, many clouds & some sun, rather less wind after 1 pm, stormy sky & gold & rose tints at sun-set. Distant lightning. —	62	Lightning from 8 pm, and many dark clouds.	
M. 28.	-98 30.05	SW <sub>1</sub> . W <sub>1</sub> . W <sub>0</sub> .	61 64 64	Overcast, very sultry & rainy morning, from 6 till 10, and at times till 2 pm. afterwards fine and clearer. — Mottled sky very red at sun-set. — Mist on the valleys. —	60		73

42.139 401 478 Mean Temp 62.78. ) Rain card over 3.24



# September 1857.

Sept.	Baro. meter	Wind	Thermom. lowest 9 highest	Natural Occurrences.	Thermo- meter 8pm.	Notes.	Rain.
Tu. 29.	30.20	SW <sub>1</sub> SW <sub>1</sub> SE <sub>1</sub>	46 58 68	Clear & heavy dew, very fine, bright and hot sun, with gentle wind, & cumuli clouds, evening, and night rather hazy, but moon bright.	57		3.24
W. 30.	-23 -17	SE <sub>1</sub> SE <sub>2</sub> S <sub>0</sub>	52 60 68	Very red hazy clouds over the sky at sun rise. fine & bright day, very warm, & light dappled beds of cloud. Even' beautiful & sky richly dappled.	57		
120.89			98 136	Mean temp 2 days. 58.5		Total rain	3.24

## Results for September 1857.

Barometer.  
Highest on the 20<sup>th</sup> — 30.52.  
Lowest on the 8<sup>th</sup> — 29.60.  
Range — 0.92  
Mean of month — 30.07.

Thermometer.  
Highest on the 17<sup>th</sup> — 80°  
Lowest on 21<sup>st</sup> am — 45.  
Range — 35  
Mean daily range — 13.76  
Mean of Month — 62.55.

Prevailing wind SW; Fine days 20. Rain 3.24 Inches.

This month was a continuation of the long and splendidly hot summer of 1857, the temperature near 5° above average, and so long a course of intense heat was never before, as this year set in about May 12<sup>th</sup> and went on to October's commencement. The public health suffered much from Diarrhoea in towns situated near shallow waters, and some cases in other sites, but not so numerous. Most kinds of fruit in orchard and garden were abundant and fine flavoured, but owing to having been partly coddled on the trees by the great power of the sun, none of them would keep, but very soon rotted after being gathered, and some did so, on the trees. — The Hops were unusually fine, and abundant, and on the whole it was a season of great blessings, for which let us be grateful!

# October 1857.

Oct.	Baro. meter	Wind	Thermom. lowest 9 highest	Natural Occurrences.	Thermom. 8pm.	Notes.	Rain.
Th. 1.	30.17	SW <sub>0</sub> SW <sub>1</sub> WSW <sub>0</sub> SW <sub>1</sub>	51 60 71	Foggy & close till 8, then bright and very hot for the season, even like summer! Few small clouds, & very little wind. Clear sun-set, mist on the valleys, and bright moon-light. Evening. — more wind in the night.	62	A real summer's day, and enchanting beyond all expression!	
F. 2.	-28	W <sub>2</sub> W <sub>2</sub> SW <sub>1</sub> SW <sub>2</sub>	55 60 67	Very red thin clouds at sun-rise. fine & bright day, with fleecy clouds, & fresh wind. warm & pleasant. Hazy evening, & lovely crimson tints about the west. — wind rising all the night.	61		
S. 3.	-11	SW <sub>5</sub> SW <sub>4</sub> SW <sub>2</sub>	56 60 68	Foggy clouds, & brisk wind, very fine, bright & very warm till near 1 pm, afterwards rather cloudy, & more wind at times. Evening clearer, and less wind. Close night.	61	Full moon 3-8 pm	
Su. 4.	29.89 -84	SW <sub>2</sub> W <sub>2</sub> NE <sub>2</sub> NW <sub>1</sub>	57 60 60	Close & lowering, little rain at 9 am, cooler and very cloudy rain again from 2 1/2 pm, till after 5. Even' fine, but very cloudy, night the same.	51		.04 .29
M. 5.	-78 -83	W <sub>1</sub> SW <sub>2</sub> SW <sub>1</sub>	47 50 60	Cool & cloudy morn'g, cleared at 10, bright & pleasant afterwards with cumuli clouds. Even' very bright & a few electric clouds. Bright moon 8 pm.	52		
Tu. 6.	-78 -91	SW <sub>1</sub> W <sub>2</sub> W <sub>0</sub>	46 54 59	Bright with cumuli clouds and cool wind, brilliant evening, golden sunset, and moon bright afterwards wind all gone. — Cold night.	49		
W. 7.	-76 -33	SW <sub>1</sub> SE <sub>2</sub> SE <sub>6</sub> SE <sub>4</sub>	43 55 62	Wane cloud, plane cirrostrati prevailing, warmer since midnight. Wind rose to a gale at 11 am, sun & electric clouds, but warmer. From 3 pm more stormy, blowing & rain at intervals.	57	Change to warmer & cloudy, with hard gale. — The Even' stormy.	.03
419.15			35.5 44.7	Mean Temp 57.28		Rain cal' over	0.36



# October 1857.

Oct.	Baro. meter	Wind.	Thermometer lowest 9 highest	Natural Occurrences.	Thermometer 8pm.	notes.	Rain. 0.36
Th. 8.	29.26	SE <sub>4</sub> SE <sub>6</sub> S <sub>4</sub> S <sub>1</sub>	53 57 59	Very squally, and more so from 10 a.m. heavy gale, and beating rain increasing all the afternoon. but ceased at 5 1/2 pm. Close evening wind gone, & more fair. Wind rose again during night.	55	extremely wet, and blowing all day.	98
F. 9.	29.37 -44	W <sub>3</sub> W <sub>3</sub> W <sub>2</sub>	48 55 58	Stormy before dawn, then bright, till after 9, afterwards cloudy more or less, and very lowering. Close evening, and mottled clouds, but clearer after 8.	55		08
S. 10.	-79 -97	W <sub>2</sub> W <sub>2</sub> W <sub>1</sub>	51 56 60	Overcast & rainy a little while at 6 am; afterwards fine, with sun, and rocky clouds. Evening closer, and very little wind. Haze & cirri from NW.	52	moon last. Dr. 5-53 a.m.	02
Su. 11.	30.00 -12	W <sub>0</sub> Var. 0. SW <sub>2</sub> Var. 0.	50 56 59	Overcast & light rain early, and till 8 a.m; afterwards fine, but close and cloudy; the evening the same, and no wind as before. The night also calm & close.	56		12
M. 12.	-27 -31	SE <sub>1</sub> SW <sub>1</sub> SW <sub>1</sub>	56 60 66	Calm, close, & dark morn'g. became sunny & hot from 10 till 2 then again close, and the evening the same, clouded and very sultry. but clearer after 8 and stars visible.	60		
Tu. 13.	-36 -37	SE <sub>1</sub> SE <sub>1</sub> SE <sub>1</sub>	53 61 66	Fog till after 7, then bright, and hot, with electric clouds, more cloudy after 1 pm, but fine and very sultry. Night clear but fog below.	57	Poplar leaf fall.	
W. 14.	-32 -27	E <sub>0</sub> E <sub>2</sub> E <sub>1</sub>	45 56 64	Fog till near 8, then very bright all day, warm, and pleasant, but a little cooler breeze. Clear evening. Mist on the valleys. Fine night but in part cloudy.	54	Maple and Ash leaves yellow.	
41781			356 432	Mean Temp 56°28)	Carried up - 1.56		

# October 1857.

Oct.	Baro. meter	Wind.	Thermometer lowest 9 highest	Natural Occurrences.	Thermometer 8pm.	notes.	Rain. 1.56
Th. 15.	30.19 -18	NE <sub>1</sub> Var. 0. SE <sub>0</sub>	47 56 62	Cloudy, more or less till after 10 a.m. then bright and very warm, wind very variable & calm. Again very cloudy from 8 after sunset. and no wind.	54	Foliage fading fast.	
F. 16.	-18 -16	SW <sub>0</sub> SW <sub>2</sub> S <sub>0</sub>	53 57 61	Very cloudy, and sultry, and the same more or less all day, and quite calm; and the evening very sultry, calm, and cloudy. Night clear & stars seen.	58		
S. 17.	-10 -04	SE <sub>1</sub> SE <sub>2</sub> SE <sub>2</sub>	51 60 65	Very electric rocky clouds, with sun, and some lower clouds, the afternoon very hot & sunny, and also electric. Close evening, but very fine. Lightning & thunder 11 pm.	58	new moon 9-38 pm. Thunder during night.	
Su. 18.	29.90 Δ48 -72	SE <sub>2</sub> E <sub>2</sub> E <sub>2</sub>	54 59 59	Lightning & thunder 4 a.m. distant very lowering and close morn'g, and cloudy all day, but cooler after 10 a.m: little rain 6 pm - and at times in the night.	54	Δ48	08
M. 19.	-75 -91	SE <sub>0</sub> SW <sub>0</sub> Var. 0.	52 58 61	Cloudy, little wet at times till noon, then fair, and became sunny at 3 pm., and very warm. Evening calm and clear, but misty below: and very fine night.	54		07
Tu. 20.	30.00 -01	NE <sub>1</sub> NE <sub>2</sub> NE <sub>2</sub>	46 50 60	Fog from 5 a.m. till 10, afterwards fair with sun, & loose cumuli, and very warm. Again cloudy after 4 pm, and close evening. The night the same.	54		
W. 21.	29.92 □0η -82	SW <sub>1</sub> W <sub>1</sub> W <sub>2</sub>	54 56 57	Overcast & close morn'g, and the whole day cloudy more or less, very little sun, and somewhat foggy and damp. More wind in the evening from 7 1/2 pm, and during the night.	53	□0η	
42288			357 425	Mean Temp 55°85.)	Rain cald over 1.71		



# October 1857.

Oct.	Baro. meter	Wind	Thermomts. lowest 9 highest	Natural Occurrences.	Thermomts. 8pm.	Notes	Rain. 171
Th. 22.	29.72 -82	NW <sub>3</sub> NE <sub>1</sub> NE <sub>1</sub>	49 52 54	Cloudy, and rain from 9 am, increasing much after 1 pm, heavy and thick, with gusty wind. and continued more or less, till 8 pm. rather fine then, but again wet.	51	nearly 1 1/2 inch of rain up to 8 pm	1.42
F. 23.	29.92 30.21	E <sub>2</sub> SE <sub>2</sub> SE <sub>1</sub>	46 52 57	Severe lightning & thunder from before 1 am, till near 3, and ceased. Sive rain from 3 to 4 1/2 am. Fair & bright from 8 am, with rocky clouds, fine night, and in part clear.	47	above 1 inch rain this morning. Floods on the valleys.	1.08
S. 24.	-34 -32	E <sub>2</sub> E <sub>2</sub> E <sub>3</sub>	46 57 61	Bright with hazy clouds, and very warm after 3 am: fine & pleasant, drying day, with a brisk air. - The Even <sup>g</sup> also warm & breezy. -	54	Cherry leaves fall.	
Su. 25.	-15 -10	E <sub>3</sub> E <sub>3</sub> E <sub>1</sub>	53 58 60	Cloudy & brisk air, little sun about noon, and a warm & drying day. Evening clear at 6 pm, calm, mild, and pleasant. -	55		
M. 26.	-03 29.93	E <sub>1</sub> E <sub>0</sub> E <sub>0</sub>	46 54 60	Overcast, rainy at 6 am, finer at 8, and very bright & warm till near sunset, but much of Electric clouds round the East. and NE, very dense, rocky & summer like. Overcast & wet night. -	56	moon 1 1/2 Dr. 2 am.	1.10 1.12
Tu. 27.	-93 30.04	SE <sub>0</sub> SE <sub>2</sub> SE <sub>2</sub>	53 59 62	Clear, but fog below, became fair, very warm, and mostly bright. - Evening cloudy, and a very warm breeze. - Fine night, & chiefly cloudy.	56	Ash leaves fall fast.	
W. 28.	-12 -16	SE <sub>0</sub> SE <sub>0</sub> Var. 0. S <sub>0</sub>	52 56 59	Cloudy, & close, followed by rain from 8 till 9 am: continued overcast & rain again at times till 12, fine afternoon, and a little sun. No wind all day. Evening & night inclined to be stormy, and unsettled.	52	willow & poplar leaves fall.	1.13 1.09
420.79		345 413		Mean Temp 54.14. Rain carried up 4.65			

# October 1857.

Oct.	Baro. meter	Wind	Thermomts. lowest 9 highest	Natural Occurrences.	Thermomts. 8pm.	Notes	Rain. 4.65
Th. 29.	30.12 -00	SW <sub>1</sub> SW <sub>1</sub> SW <sub>2</sub>	47 53 60	Showery at 7 am, stormy electric sky, but fair & bright all day here, with distant storms. & thunder-looking. - Evening rather cloudy, more wind, and dappled upward. -	52	Distant storm-clouds on S. & SE. horizon all the pm.	1.04
F. 30.	29.93 -89 30.06	SW <sub>3</sub> W <sub>4</sub> W <sub>1</sub>	48 52 56	Storm of rain 9 am, afterwards finer, and a bright and drying afternoon, with brisk wind. Clear even <sup>g</sup> , less wind, & much cooler.	46		1.06
S. 31.	-23 -26	SW <sub>1</sub> SW <sub>1</sub> SW <sub>1</sub>	40 48 57	Very clear & heavy dew, much cooler, but very fine, and very bright all day, warm, & pleasant. Fleecy clouds in the Even <sup>g</sup> & moon between.	51	All trees but Oaks shedding leaf fast.	
210.49		135 173		Mean Temp 3 days 51.33. Total Rain 4.75			

## Results for October 1857.

Barometer.			Thermometer.		
Highest on 13 <sup>th</sup>	30.37		Highest on the 1 <sup>st</sup>	71°	
Lowest on 8 <sup>th</sup>	28.96		Lowest on 31 <sup>st</sup>	40	
Range	1.41		Range	31	
Mean of Month	30.01		Mean daily range	11.06	
			Mean of Month	55.45	

Total depth of Rain 4.75 Inches: Fine days 17 in number. And the prevailing currents the SW, & SE. but the W, & E, also prevailed much. -

This was the warmest October since 1811, and only in 1881 has it been nearly as warm as this of 1857. The foliage remains late on the trees, as no cold nights have occurred to weaken their hold. - The great rain-fall was needed upon the long heated surface, - but wheat-sowing is behind as yet.



November 1857.

Nov.	Baro. meter	Wind.	Thermometer lowest 8 am high	Natural Occurrences.	Thermom. 8 pm	Notes.	Rain.
Su. 1.	30.18 -02	SW <sub>2</sub> . S <sub>4</sub> . SE <sub>2</sub> .	48 56 59½	Very warm, & light clouds, with sun. & a brisk drying wind. Bright moon light evening, and silvery dappled clouds like summer skies! The same most of the night.	50	Ash trees nearly bare.	
M. 2.	29.88 -36	SE <sub>1</sub> . SE <sub>1</sub> . SE <sub>2</sub> .	47 54 60	Thin scuds & little wet at 7 am, cloudy and warm day, with little rain at noon, but rather clearer afterwards till 3 pm, then close and very cloudy. - Very close night.	56	Full moon 1 am.	.03
Tu. 3.	-87 840 -92	SSE <sub>1</sub> . S <sub>1</sub> . S <sub>1</sub> .	56 59 64	Exceedingly close & warm, with sun at times, hot for the season; more cloudy from 4 pm, & gentle rain at 6. Very rainy during night.	59	840	.20
W. 4.	30.02 29.99	NE <sub>3</sub> . NE <sub>3</sub> . E <sub>0</sub> .	52 54 59	Rainy till 5 am; cloudy but finer till 10, again thick, & light rain at times. Very close afternoon & evening, fog, & little misting. - Very sultry night, and some fog.	59		.40 .13
Th. 5.	30.33 -04	SE <sub>1</sub> . SE <sub>1</sub> . SE <sub>1</sub> .	53 58 63	Fog & very sultry, clearer sun after 11, very warm & summer-like, with electric dappled sky. Cloudy evening and very warm. Some fog during the night.	58	Ash trees poplar & cherry mostly bare.	
F. 6.	-09 -20	E <sub>1</sub> . SE <sub>0</sub> . W <sub>1</sub> . NW <sub>1</sub> .	52 56 61	Foggy and close, more or less, with a little sun at times, and very little wind. Foggy evening, and little gentle rain.	55	Sumach foliage a lovely carmine tint.	.05
S. 7.	-29 -37	NW <sub>0</sub> . N <sub>1</sub> . NE <sub>1</sub> . N <sub>0</sub> .	52 54 5½	Cloudy, more or less, and some fog at times; rather clearer after 3 pm, and a few stars seen at eve, and a very fine night.	50	Woodlands richly tinted.	
420.77			360 424	Mean Temp 56° 0! Rain carried up 0.81			

November 1857.

Nov.	Baro. meter	Wind.	Thermometer lowest 8 am high	Natural Occurrences.	Thermom. 8 pm	Notes.	Rain.
Su. 8.	30.42 -47	NW <sub>1</sub> . NW <sub>1</sub> . N <sub>0</sub> .	46 51 56	Cloudy & fog, mild, and calm for the most part. - Afternoon more foggy, and the evening and night the same.	53	moon last 2 or 4 pm.	0.81
M. 9.	-47 -50	NE <sub>0</sub> . NE <sub>1</sub> . NE <sub>1</sub> .	50 51 54	Very foggy, and nearly the same all day alike, with very little wind, but at 8 pm, began to blow, and a fresh breeze all night.	50		
Tu. 10.	-56 -68	NE <sub>3</sub> . NE <sub>2</sub> . NE <sub>3</sub> .	48 50 52	Cloudy, with a drying breeze, very fine, but cooler. - Evening more windy, and still cloudy, but a very fine night.	47	leaves falling faster.	
W. 11.	-78 -83	NE <sub>1</sub> . NE <sub>2</sub> . E <sub>0</sub> .	44 48 56	Very fine, with grey clouds, & sun, became very bright at 11 am, so continued & a very pleasant day. Calm, clear, & cool evening.	43	Barom higher than for nearly 4 years past.	
Th. 12.	-81 -79	NW <sub>0</sub> . NW <sub>1</sub> . NW <sub>0</sub> .	36 43 53	Frosty & some fog, but bright, with some low clouds and haze at times. Evening close and cloudy, but the night clearer.	48		
F. 13.	-63 -53	NW <sub>2</sub> . NW <sub>2</sub> . N <sub>1</sub> .	36 41 47	Thick fog, at times, and continued more or less foggy, some sun about noon, the upper clouds red at sunset. - Foggy night.	43	*ηδ	
S. 14.	-48 -39	N <sub>0</sub> . NE <sub>1</sub> . NE <sub>0</sub> .	40 49 56	Very foggy, but soon clear, fair and mild, with thin clouds, & rather electric. Thick & misting evening but a fine night.	50	Sumach sheds foliage.	.04
428.34			300 374	Mean Temp 48° 14. Rain car up - 0.85			



# November 1857.

Nov.	Baro. meter	Wind.	Thermometer lowest 8 am highest	Natural Occurrences.	Thermom. 8 pm.	Notes.	Rain. 0.85
Su. 15.	30.45 -50	NE <sub>1</sub> E <sub>2</sub> E <sub>2</sub>	41 43 53	Very clear morn'g, and very bright all day, no cloud hid the sun. Pleasant & warm till 3, afterwards colder, and more wind in the Even'g. -	41		
M. 16.	-32 -35	E <sub>2</sub> E <sub>4</sub> E <sub>1</sub>	41 44 54	Bright. with gazy clouds, and drying breeze, continued very bright, & more wind. - Cloudy Even'g, wind gone, and a mild night. -	49	New moon 3.54 pm	
Tu. 17.	-31 -35	E <sub>1</sub> E <sub>2</sub> SE <sub>3</sub>	43 46 55	Very fine, bright, & drying day throughout, warm and very pleasant. The Evening chiefly clear, and more wind. - Fine night, and less wind. -	48	Roads and foot paths quite clean.	
W. 18.	-40 -42	E <sub>1</sub> E <sub>4</sub> E <sub>5</sub>	40 45 54	Very fine, bright, and drying forenoon, cloudy afternoon, and more wind, but very fine. Evening very cloudy, and windy. -	47		
Th. 19.	-43 -45	SE <sub>3</sub> SE <sub>2</sub> E <sub>2</sub>	45 47 49	Cloudy with parching wind, continued cloudy till 2pm, afterwards bright. Clear evening, calm, and little frosty, so till after midnight. -	38	Elm leaves falling.	
F. 20.	-37 -41	S <sub>0</sub> SW <sub>1</sub> SW <sub>2</sub>	34 44 51	Frost early, but changed to haze & mildness. - Fine day, but foggy more or less, and but little sun. Even'g very foggy, & more wind, at times. -	43		
S. 21.	-45 -48	SW <sub>1</sub> SW <sub>1</sub> SE <sub>1</sub>	44 47 56	Very foggy & mild, but the fog cleared off, at 10, very fine warm & bright till sunset. Close Evening, some thin clouds but very fine, and a mild and foggy night. -	47	gardens still gay.	
425.69		288.3725		Mean Temp 47° 17. - Rain cald up - 0.85			

# November 1857.

Nov.	Baro. meter	Wind.	Thermometer lowest 8 am highest	Natural Occurrences.	Thermom. 8 pm.	Notes.	Rain. 0.85
Su. 22.	30.33 -17	SE <sub>1</sub> S <sub>2</sub> SW <sub>2</sub>	44 47 55	Very foggy till 9 am, then bright, and very warm all day, gentle wind, & light clouds. - Warm night & wind rising. -	48	Birds singing as in spring.	
M. 23.	29.73 *88 -59	S <sub>5</sub> SW <sub>4</sub> SW <sub>3</sub>	44 55 56	Blowing, mild & cloudy, - Stormy forenoon, & a driving shower 10 am, finer afterwards, & less wind. Very hazy Even'g, and night. -	46	*88	06
Tu. 24.	-40 849 -37 -38	S <sub>2</sub> W <sub>1</sub> NW <sub>1</sub>	43 47 47	Overcast & rainy morn'g, but very fine afternoon, with sun, and cool wind. Even'g at times clear, and a little frosty, all the night. -	38	moon 1 <sup>st</sup> Dr. 5.33 pm. 849	20
W. 25.	-69 -73	S <sub>0</sub> Var. SE <sub>0</sub> W <sub>2</sub>	31 31 45	Frost, & some fog, but soon overcast, and rain at times, dark, and very little or no wind. More wind after 8 pm. - Cloudy, night. -	42		05
Th. 26.	-67 -83	NE <sub>1</sub> NE <sub>2</sub> NE <sub>2</sub>	38 40 47	Cloudy, little wet, but chiefly fair, and the afternoon more so, but the Evening rainy at times. Night finer, & more wind. -	44		05
F. 27.	30.09 -28	NE <sub>3</sub> NE <sub>3</sub> NE <sub>2</sub>	42 43 48	Clouds & sun, with dry breeze, very fine and chiefly clear all the afternoon; and a cold evening, but wind less. Slept at 9 pm, -	37	Trees nearly all bare - except a few oaks & elms.	
S. 28.	-20 -27	NE <sub>3</sub> NE <sub>2</sub> NE <sub>1</sub>	37 42 48	Clouds & sun, little showers at a distance, but chiefly fair here. Moon bright at eve, but the night cloudy more or less. -	38	Again drying weather these 2 days. -	
418.53		279.346		Mean Temp 44° 64. Rain cald over. 1.21			



# November 1857.

Nov.	Baro. meter	Wind.	Thermom. low 8 a.m. high	Natural Occurrences.	Thermom. 8 p.m.	Notes.	Rain 1/21
Su. 29.	30.30	NE <sub>1</sub> , 38	43	Clouds and sun, very fine day with a drying breeze.		Birds very tuneful all this morning as if it were Spring!	
	-22	E <sub>2</sub> , 43	50	very red plane clouds at sunset in SW, & S. - and the evening hazy. Night cloudy. -	40		
M. 30.	-12	E <sub>4</sub> , 40	47	Windy & cloudy, bleak, and blowing day, with a threatening sky.		* 03	
	* 03	E <sub>5</sub> , 47	47	The evening also cloudy, but less wind, & moon visible.	43		
	-21	ESE <sub>3</sub>					
	120.65		78. 97	Mean temp 2 days. 43° 75. Total rain 1.21.			

## Results November 1857.

Barom.	Highest on 11 <sup>th</sup> - 30.83	Therm.	Highest on 3 <sup>rd</sup> - 64°!
	Lowest on 24 <sup>th</sup> - 29.37		Lowest on 25 <sup>th</sup> - 31°
	Range - 1.46		Range - 33°
	Mean of month 30.23		Mean of month 48.64
			Mean daily range 10.28.

Five days 21; Rain 1.21 Inch. Prevailing winds NE & E.

This was a remarkably fine and mild November, even six degrees above usual mean, and all the little garden & field flowers blossomed all the month, and birds sang daily as in Spring! The Rural districts on the whole, continued healthy, except in a few low districts near marshes, where some typhus prevailed, arising from Malaria as usual induced by the wet of October on the highly heated soil!

# December 1857.

Dec.	Baro. meter	Wind.	Thermom. low 8 a.m. high	Natural events.	Therm. 8 p.m.	Notes.	Rain.
Tu. 1.	29.97	SE <sub>2</sub> , 36	44	Red mottled sky at 10 rise; very little rain gam, afterwards close but fair. The evening cloudy & very mild. with some fog. -	47	Full moon 11 a.m.	
	30.05	SE <sub>1</sub> , 50					
W. 2.	-15	SW <sub>1</sub> , 43	49	Mild and pleasant, but at times lowering, and closer, more wind after 3, but the evening clearer. Haloes round the moon, and rather hazy, and blowing night.	50	Birds singing as in Spring - 9 a.m.	
	-18	SSE <sub>2</sub> , 56					
Th. 3.	29.95	SSE <sub>4</sub> , 48	54	Blowing & very mild, red east, & signs of storm: - windy all day, grey & hazy sky, and very fine. - windy night, little rain, and very warm atmosphere.	52	little flowers still blooming in garden & hedges.	03
	-39.	SSE <sub>5</sub> , 54					
F. 4.	30.00	SW <sub>3</sub> , 49	49	Fine, clear, & drying morn, but very mild, and a warm & bright day, but at 3 p.m. some rocky dark clouds, and a sprinkling of rain. Clear evening & colder. -	42		
	-19	SW <sub>2</sub> , 49					
S. 5.	-22	SW <sub>1</sub> , 36	40	Little hoar frost early, very bright and pleasant day, gentle wind & scarcely a cloud. Evening clear & cold. Little fog during night. -	37	some rain westward 8 1/2 a.m.	
	-40	SW <sub>1</sub> , 51					
Su. 6.	-42	SW <sub>2</sub> , 37	46	Grey clouds, and sun, fine and very mild, with a brisk air. - Low seeds in the evening, very close, and mild, the same all night.	52	Birds tuneful.	
	-50	SW <sub>2</sub> , 54					
M. 7.	-53	S <sub>2</sub> , 49	53	Very close, mild & lowering and a very little rain at times, exceedingly mild all day, evening and night, dark clouds, and more wind.	53	large meteor at 8 p.m. ran to N.E.	02
	-48	S <sub>4</sub> , 55 1/2					
	-48	SW <sub>4</sub> , 55 1/2					
	422.93		298 375	Mean Temp 48.07 Rain cal over - 05			



*December 1857.*

Decr.	Baro- meter	Wind.	Thermom. low. 8 am	Thermom. 8 pm.	Notes.	Rain.
			highest			0.05
Tu. 8.	30.73 -71	W <sub>0</sub> . SW <sub>1</sub> . SE <sub>2</sub> .	37 37 51		Quite clear, calm & little frost, bright all day, & very mild. More wind after sunset, and somewhat cloudy, the same during the night. —	moon last yr 6.38 am. yellow butterfly seen.
W. 9.	-56 -47	SE <sub>2</sub> . S <sub>4</sub> . S <sub>2</sub> .	42 43 46		Cloudy, with grey and blue strata, and some sun, more wind and colder. Closer & dark evening, but less wind. —	
Th. 10.	-45 -51	S <sub>1</sub> . SW <sub>2</sub> . SW <sub>2</sub> .	42 45 51		Cloudy morning, but very bright most of the day, with a bleak drying air. Evening more hazy, and brisk wind.	Roads & foot walks clean.
F. 11.	-57 -64	SW <sub>2</sub> . SW <sub>1</sub> . SW <sub>0</sub> .	42 46 52		A watery sky, mixed clouds, & rainbow at 8½ am, but fine here and the afternoon bright, & pleasant. — Evening chiefly clear, & meteors falling.	Birds continue singing. shower in P.M. 9 am.
S. 12.	-75 -78	NW <sub>1</sub> . NW <sub>1</sub> . NW <sub>1</sub> .	37 37 43		Foggy and increased to a very thick, dripping fog all the day, and evening, and much colder, but in the night again milder. —	
Su. 13.	-71 -62	W <sub>2</sub> . W <sub>2</sub> . S <sub>1</sub> .	38 43 45		Cloudy, and very gloomy all day, and a raw state of air: the Evening nearly the same, and a close night.	
M. 14.	-50 -36	S <sub>2</sub> . SW <sub>2</sub> . SW <sub>3</sub> .	39 39 44		Cloudy more or less, all day, and a thick & dark haze in the afternoon, and very dark, & cloudy Evening. More wind in the night.	
42836			277	332	Mean Temp 43.50.)	Rain cald up. 0.05

December 1857.

Decr.	Baro- meter	Wind.	Thermom- lowest 8 am. highest	Weather &c.	Thermom- 8 pm.	Notes	Rain. 0.05	
Tu. 15.	30.21	S <sub>3</sub> SW <sub>2</sub> SW <sub>2</sub>	41 45 52	Cloudy more or less, & little sun, stormy sky, and gusts of winds, but fine here. - Close night cloudy, & brisk wind at times.	46	birds very tameful, and roads dry. -		
W. 16.	-21 -25	S <sub>3</sub> SW <sub>3</sub> SW <sub>3</sub>	46 48 53	Hazy & mild, flying clouds & sun in the day, with a very drying wind. Clear evening, and the wind brisk. Large Meteors.	47	New moon 11 am. great me- teor at 8 pm.		
Th. 17.	-22 -25	SW <sub>3</sub> SW <sub>3</sub> SW <sub>4</sub>	45 49 56½	Storm of rain early a.m.; and most of the day lowering & light rain at times very warm air. & some sun. Squally Evening & night, and very mild air. -	51	blue vio- lets in full bloom. Thunder storm in west 7 pm.	.06 .05	
F. 18.	-31 -12	SW <sub>4</sub> SW <sub>3</sub> SSE <sub>5</sub>	48½ 51 53	Squally wind, lowering sky & very stormy looking; much flying cloud, and more wind as the day proceeded, and colder air. rain at 10 pm. -	44	Storm of rain at 10 pm.	.02 .07	
S. 19.	-17 -21	W <sub>1</sub> NW <sub>1</sub> NW <sub>1</sub>	40 40 47	Chiefly clear and colder, some distant haze, and ve- ry little wind. Frosty Evening, & clear, but a haze below, and frosty night.	35			
Su. 20.	-17 29.89	S <sub>2</sub> SW <sub>6</sub> SW <sub>4</sub>	32 36 47	Very white frost but not at all sharp, became thick & stormy, very wet and blowing afternoon, and very dark; but fine & clear in the evening. part of the night.	43	Exceeding- ly stormy.	.19	
Mo. 21.	38.08 -12	SW <sub>4</sub> SW <sub>4</sub> SW <sub>5</sub> 7.	37 44 52½	Hard rain & gusty wind all the morning till near 9. Squally day, but chiefly fine till 4 pm. - the evening very blowing & rainy, but very warm. -	52	very tur- bulent & stormy. and more so in the evening.	.17 .05	
42241			2895	361	Mean Temp 46° 46.) Rain cald over			0.66



# December 1857.

Decr.	Baro. meter	Wind.	Thermom. lowest 8 am	Thermom. highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 0.66
Tu. 22.	30.28 -29	SW <sub>4</sub> SW <sub>4</sub> SW <sub>4</sub>	48 50 55		Blowing & warm, stormy air and much cloud, with a very little rain at times, but chiefly fine. Hazy evening, exceedingly warm, and continued all windy. —	55	aconite flowers appear.	02
W. 23.	-40 -43	SW <sub>4</sub> SW <sub>6</sub> WSW <sub>3</sub>	51 53 56		Very blowing, & warm, with much mixed cloud, & some sun. Crimson clouds about the setting sun. Clearer evening, and less wind. —	49	Birds still very tameful. — □ 8 ♀	
Th. 24.	-49 -47	SW <sub>2</sub> W <sub>3</sub> SW <sub>4</sub>	44 47 53		Fine, and mostly bright, with thin clouds, & drying wind. coppery sky, and grey clouds, with more wind at eve. — very mild weather still.	46	moon 1 <sup>st</sup> 20. 6.36 am.	
F. 25.	-31 -44	SW <sub>4</sub> W <sub>3</sub> NW <sub>2</sub>	45 47 53		Mild & windy with light clouds; very fine, and mostly bright. The evening very bright moon-light, less wind and very pleasant for the season. —	43	Birds very musical	
S. 26.	-47 -43	NW <sub>1</sub> NW <sub>1</sub> N <sub>1</sub>	34 36 44		Thick fog, and much colder, cleared at 9, bright till 10, afterwards dark, raw, and cloudy: very little wind, & the evening also cloudy. Cloudy & calm night. —	41		
Su. 27.	-49 -50	NW <sub>1</sub> NW <sub>0</sub> Var. 0.	36 41 43		Very fine, calm, and bright all the day, sun beams very warm, but a keener air. Evening clear, & frosty, with haze below, and quite calm.	32	Δ 04 Birds singing on.	
M. 28.	-53 -57	Var. 0. SW <sub>1</sub> Var. 0. S 0.	30 31 41		Hard & very white frost, calm & raw air, and more hazy and overcast, with a little rain at 3 pm. Evening very bright moon-light, with some mist below.	34		04
426.02		288.346		Mean Temp 45° 28. Rain cal up - 0.72				

# December 1857.

Decr.	Baro. meter	Wind.	Thermom. lowest 8 am	Thermom. highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 0.72
Tu. 29.	30.57 -60	SSE <sub>1</sub> SW <sub>1</sub> SW <sub>0</sub>	34 42 46		Fine & bright, but hazy; became more hazy and cloudy, but calm and mild. Moon bright at eve, and light fleecy clouds.	41		
W. 30.	-65 -66	SW <sub>1</sub> SW <sub>2</sub> SW <sub>1</sub>	34 36 44		Very thick fog, and the trees dripping with it: rather clearer at noon, but soon returned to heavy fogs again, and so all night. —	39	Full moon 9.33 pm.	
Th. 31.	-64 -61	S <sub>1</sub> SW <sub>0</sub> SW <sub>0</sub>	32 32 42		Fog & frost, very foggy till near 12 noon, bright afternoon, & evening frosty & clear, but fog below. —	32		
183.73		100 132		Mean Temp 3 days 38° 66 Total rain 0.72				

## Results for December 1857.

Barom.	Highest on 12 <sup>th</sup> 30.78	Therm.	Highest on 17 <sup>th</sup> 23° 56 <sup>1</sup> / <sub>2</sub>
	Lowest on 3 <sup>rd</sup> 20° 29.89		Lowest on 28 <sup>th</sup> 30°
	Range ——— 0.89		Range ——— 26 <sup>1</sup> / <sub>2</sub>
	Mean of month 30.37		Mean daily range — 9.72
		Mean of Month 45.33	

Prevailing winds S.W. — Fine days 23. Rain 0.72.

This was a very remarkable month for mildness, and a very electric state of air, with frequent gales, & rain in some parts of England, while the Eastern Counties had comparatively little, and the Barometer generally high, although such a prevalence of rain in the western parts. On many days, butterflies came out, birds sang, and all the month, there were many spring flowers full in bloom, and the brisk winds dried the foot-walks, and roads, so as to render it agreeable and pleasant.



The greatest cold in 1857, occurred on the 2<sup>nd</sup> of February, early in the morning, when the Thermometer fell to 14°. and the hottest days of the whole Year were the 28<sup>th</sup> of June, and the 4<sup>th</sup> of August, the Thermom<sup>r</sup> 91° on both Days!

The Highest Barom<sup>r</sup> was on November 11<sup>th</sup>, - 30.83!  
And the lowest was on October 8<sup>th</sup>, - 28.96.

The Year 1857 stands unparalleled in England, for its warmth, and loveliness; and was also a year of abundance in corn and fruits.

The main characteristics were the fine winter; the warm Spring; Hot Summer and Autumn; and its uncommon warmth, and pleasantness even to the end of December! Butterflies appeared, even On Christmas Day; the birds sang; sun shone; and flowers bloomed; and a fresh breeze made it pleasant and clean walking for all who sought a happy holiday, visit, or excursion among their friends! Mean Temperature of the Year as shown in the table opposite, was 52.87; - or about 3 above the usual mean of England!

## General Results for 1857.

Table of the winds.										Monthly Results.					
Monthly Division of currents.										fine	depth	mean	mean	mean	hard
Month	E	W	N	S	NE	SE	NW	SW	Prevailing currents.	days.	rain	Bar.	Temp.	range	gales.
Jan.	1	8	0	2½	5	1½	4½	8½	NW-W	12	3.51	29.84	36.82	9.51	3
Feb.	1	4½	0	9	1½	4½	2½	5	S	22	0.14	30.17	39.35	14.53	0
Mar.	3	7	2	3	2½	8½	2	3	SE-W.	20	0.59	29.97	43.55	14.40	7
Apr.	1	3½	0½	3	4½	10	3½	4½	SE.	16	2.34	29.89	48.00	16.00	0
May.	8½	1½	1	3	6	6	0	5	E. NE-SE	21	1.06	30.08	56.36	19.72	0
June	7½	1½	0	1½	3	7	1	8½	W. E-SE	21	3.61	30.10	64.00	22.30	1
July.	0	12	0	0	2	3½	0	13½	NW-W.	19	2.38	30.11	66.60	17.72	1
Aug.	4	3	2½	4	5	6	0½	6	NW-SE-NE	24	3.28	30.14	68.11	14.90	0
Sept.	2	4	0	4	3	2	2	13	NW.	20	3.24	30.07	62.25	13.76	1
Oct.	5	6½	0	0	2½	7½	1	8½	NW-SE	17	4.75	30.01	55.45	11.06	2
Nov.	6	0	0½	3½	8½	4½	4	3	NE-E	21	1.21	30.23	48.64	10.28	0
Dec.	0	2	0	3	0	2½	4	19½	NW.	23	0.72	30.37	45.33	9.72	3
1857.	3.9	53½	5½	36½	43½	63½	25	98	NW-SE.	236	26.83	30.08	52.87	14.49	18

The month of August was the finest & hottest of the year, yielding 24 fine days, yet there was an immense fall of rain in the second week, and more so in the midland Counties. October gave salutary rains, as needed upon the long-heated surface, but they were quickly absorbed.



# Conclusive Remarks on the Splendid and Bountiful Year 1857.

Notwithstanding the intense heat of the very long summer of 1857, such were the beneficial results of sanitary improvement, that the public health suffered less than in 1846; and by God's blessing on all sanitary measures, we may rejoice with a national thanksgiving for such happy results, and still persevere in all regulations and rules for yearly preserving health, and moreover, let the British Isles offer up one common outpouring of gratitude for the four succeeding harvests of Abundance, and years of plenty!

Orlando Whistecraft

Thwaites,

Dec 31<sup>st</sup> 1857.

## January 1858.

Jan'y.	Baro- meter.	Wind.	Thermometer lowest & highest am	Weather &c.	Thermom. 8pm	Notes.	Rain.
F. 1. □ 48	30.59 -55	SW <sub>1</sub> . SW <sub>1</sub> . SW <sub>1</sub> .	27 29 40	Hazy, & very white frost, cloudy and some fog, and very foggy all the afternoon, and Evening. Some frost in the night.	32½	□ 48	
S. 2.	-54 -51	Var. o. SW o. SW o.	30 34 41	Frost early, fog much increased at 7 a.m. more or less foggy all day, & sun at times. - Close night, fog at intervals.	34		
Su. 3.	-56 -63	SE <sub>2</sub> . SE <sub>2</sub> . E <sub>1</sub> .	33 39 41	Cloudy, more or less, more wind, and in the afternoon mostly bright, with a cold breeze. Evening hazy, and less wind.	34		
M. 4.	-61 -54	E <sub>3</sub> . E <sub>3</sub> . E <sub>3</sub> .	31 31 37	Clear, very bleak, & freezing air, continued so all the day, and sharper in the Evening, blowing and freezing night.	29		
Tu. 5.	-50 -37	NE <sub>4</sub> . NE <sub>3</sub> . NE <sub>3</sub> .	25 27 31	Cloudy, blowing, & sharp frost, so continued the whole day, and evening, with a few flakes of snow at times; and the night cloudy, but severe frost.	28	little snow	○
W. 6.	-28 -32	SW <sub>2</sub> . S <sub>3</sub> . S <sub>2</sub> .	26 26 31	Continued sharp frost, and cloudy with some snow; wind very keen, although veered to South. - Sky cleared after 9, clear & severe night.	28	little snow several times.	○
Th. 7.	-34 -32	Var. o. S <sub>2</sub> . S <sub>3</sub> .	23 24 36	Severe frost & clear, but some clouds & more wind after 12; dusky clouds at sunset, but clearer Evening and brisk wind, with frost more gentle.	31	moon last Drum 1 am.	
426.66		19.5 257		Mean Temp 32° 28. Rain cal up 0.00			



# January 1858.

Jan.	Baro. meter	Wind.	Thermom. lowest & highest am	Weather &c.	Thermom. 8 pm.	notes.	Rain. 0.00.
F. 8.	30.24	S 2. SW 2. SW 1.	31 41 48	Overcast, change to rain before dawn; dark & foggy with little wet at times. Much warmer after noon than before and the evening very mild, and foggy. - Close night. -	47		72
S. 9.	-19 □ 8 8	SW 4. SW 4. W 1.	44 49 52	Very warm & windy with little rain at times. Squally atmosphere & sometimes dark. - Clearer Evening, and wind much less. - Fine night, and in part clear. -	45	□ 8 8	04
Su. 10.	-36 -30	SW 2. SW 4. SW 3.	35.2 41 51	Bright morning; and chiefly so till noon, afterwards hazy, much cloud, stormy sky, & wind very squally. - Warm and gay all the latter part of the night. -	43	severe gale & great rain at Cheltenham.	
M. 11.	-10 -50	S 6. SW 3. W 2. NW 1.	43 49 51	Dark, squally & some rain at 8 am, lowering till noon, wind veering & less, but a bright afternoon, with few clouds, and a clear Evening, inclining to frost. -	37		
Tu. 12.	-63 -49	SW 1. SW 2. SW 1.	30 30 44	Clear & frost, fine sunny day, light hazy clouds, and in the afternoon rather more hazy, cloudy evening, stormy sky, and more wind. -	37		
W. 13.	-34 -35	W 2. NW 2. Var. o.	37 40 47	Bright with grey clouds, very fine, mild and pleasant. Clear yellow sunsets, and rather frosty evening. - Gentle frost during the night. -	35		
Th. 14.	-40 -43	W 1. NW 2. SW 1.	31 33 43	White frost, & clear morning, sun rose red in haze; chiefly bright, but hazy. The evening frosty, very hazy below, but clear upward. -	35		
424.68		251.5 336.3		Mean Temp 42°. -		Rain - carried up	0.20

# January 1858.

Jan.	Baro. meter	Wind.	Thermom. lowest & highest am	Weather &c.	Thermom. 8 pm	notes.	Rain. 0.20.
F. 15.	30.27 -42	W 2. W 2. W 1.	33 39 46	Cloudy, and hazy with some sun at times, but rather lowering and inclined to storm. Hazy evening, but stars visible upward. -	36	new moon 5 1/2 am.	
S. 16.	-32 -63	W 4. N 4. N 2.	36 46 46	Clear & blowing, but milder more clouded after 8 am, very squally from North, little rain at times; Evening very cloudy and wind less. -	37	Again colder after 2 pm. Hail clouds about.	02
Su. 17.	-72 -75	NW 1. NW 1. NW 0.	33 33 39	Cloudy, dry & keen air, less cloudy after 12, chiefly bright, and very cold. Evening clear and hard frost. little hazy below, and no wind. -	30	a change soon after 10 pm.	
M. 18.	-50 -43	W 1. W 3. W 3.	29 35 46	Cloudy & frost went off after midnight, fine day, cloudy with sun, & brisk wind. Hazy at sunset, red streaked sky, and hazy night. -	40		
Tu. 19.	-38 -26	SW 3. W 5. W 6.	38 41 47	Bright & windy at first, but all the midday cloudy & windy, red streaked sun set; clear, and very windy evening. - Hard gale all night. -	42	very high wind all night.	
W. 20.	29.86 -94	W 7. W 7. W by N	42 49 49	Heavy gale all the morning, and a heavy storm of rain at 10 am afterwards bright, but blowing all day hard as before and the Evening the same. - Wind rather abated in night. -	38	beating storm of rain 10 am.	05
Th. 21.	30.10 84.8 -25	NW 4. N 4. N 2.	32 33 39	Blowing, hazy & little snow stormy & snow at times, with bright intervals. Squally and turbulent all day, & the evening the same. -	34	84.8	0
424.93		24.8 31.2		Mean Temp 39° 64. )		Rain cal over. 0.27	



# January 1858.

Jan.	Baro. meter	Wind.	Thermometer lowest & highest am	Thermom. 8 pm.	Notes.	Rain. 0.27
F. 22.	30.41 -32	NW <sub>3</sub> NW <sub>2</sub> W <sub>1</sub>	32 35 39		Cloudy, stormy & snow at times; often very lowering but not very cold; Evenng hazy, less wind, & chiefly fine. Frost gentle. — 34	moon 1 <sup>st</sup> 2 <sup>nd</sup> 5 pm.
S. 23.	-37 -63	W <sub>2</sub> W <sub>1</sub> NW <sub>1</sub>	31 32 42		Gentle frost, & hazy, but very fine and bright all day, with but little wind. — Evening clear above, hazy below & little wind. — 35	
Su. 24.	-65 -57	NW <sub>0</sub> W <sub>0</sub> SW <sub>0</sub>	27 29 40		Clear, and hard white frost, bright all day, and calm, clear & frost at eve, but hazy about horizon. Sharper frost during night. — 30	snow drop & aconite in flower.
M. 25.	-55 -48	S <sub>0</sub> S E <sub>2</sub> S E <sub>2</sub>	24 27 41		Sharp frost, & thick haze, light clouds & haze in the day, frost gone, & chiefly sun, clear moonlight evening, with gentle frost. — 33	
Tu. 26.	-36 -23	S E <sub>3</sub> S E <sub>3</sub> S E <sub>2</sub>	29 30 36		Clear & frost - very keen & piercing wind all day, with fleecy clouds, and sun. Evenng chiefly clear, but rather less frost after 7. — 31	
W. 27.	-27 -30	S E <sub>2</sub> S E <sub>2</sub> S E <sub>2</sub>	30 31 43		Clear, & gentle dry frost, very fine, and bright day, milder, & very pleasant. — Bright moonlight eve, and gentle frost, - increased in the night. — 33	
Th. 28.	-32 -38	S <sub>2</sub> S <sub>2</sub> S <sub>2</sub>	27 27 44		Hard white frost, clear, and very little wind. Bright all day, milder, & more wind. Evening hazy about the horizon, but clear moonlight above. — 34	
42.624		2002852		Mean Temp 34.67. ) Rain cal up 0.27		

# January 1858.

Jan.	Baro. meter	Wind.	Thermometer lowest & highest am	Thermom. 8 pm.	Notes.	Rain. 0.27
F. 29.	30.35 -33	SW <sub>2</sub> SW <sub>2</sub> S <sub>2</sub>	33 42 47		Overcast, & thaw, fog, and little rain; close, and cloudy more or less all day, with little wet at times; very close night and wind rising. — 43	Full moon 9 am.
S. 30.	-11 29.92	SW <sub>5</sub> SW <sub>5</sub> SW <sub>6</sub>	43 50 54		Mild, blowing & rainy at times, more wind after 3 pm. & very mild air. Stormy night, and heavy rain at times after 11. — 51	13
Su. 31.	30.65 -10	NW <sub>1</sub> NW <sub>1</sub> W <sub>4</sub>	38 41 45		Stormy with rain early, but calm & close after 5. — from 10 am, bright with very rocky clouds. Evening cold, and threatening. Windy night & some snow. — 34	14
180.86		Total galed fairs.	114	146	Mean of 3 days 43.3 ) Total rain 0.54	

## Results for January 1858.

Barom	Highest on 17 <sup>th</sup> 30.75	Thermom	Highest on 30 <sup>th</sup> 54
	Lowest on 20 <sup>th</sup> 29.86		Lowest on 7 <sup>th</sup> 23
	Range — 0.89		Range — 31
	Mean of Month 30.37		Mean of Month 37.75
		Mean daily range — 10.75	

Five Days 20. Rain 54 of an Inch. Winds chiefly westerly.

This was a dry month on the whole, and often mild and pleasant, but the first week, and part of the last, produced some keen frost & a little snow. The middle of the month was stormy, blowing, and unsettled, and the same at the end. —



# February 1858.

Feb.	Baro. meter	Wind.	Thermom. lowest 8 highest am	Weather, &c.	Thermom. 8 pm.	Notes.	Rain.
M. 1.	29.78	NW <sub>5</sub>	29	Very cold blowing morn <sup>g</sup> , and sleet storms early; bright day, but very cold & blustering.	30	☐ ☉ ♂	
		NW <sub>5</sub>		Severe frost in the evening and blowing sharp, with a clear sky. — Severe night.	36		
	-92	NW <sub>4</sub>					
Tu 2.	-92	NW <sub>1</sub>	22	Severe frost, & bright morn <sup>g</sup> , but soon very thick & cloudy, and more so in the afternoon.	22		
		W <sub>2</sub>		dark and overcast, but the evening rather clearer. —	34		
	-90	SW <sub>1</sub>					
W. 3.	-97	SE <sub>1</sub>	28	Very cloudy, same fog, and became lowering, with a ve- ry little rain at times, and	35	☐ 4 ♀	
		S <sub>4</sub>		more wind: stormy, blowing, & dark even <sup>g</sup> . Night warmer.	42		
	-84	S <sub>5</sub>					
Th. 4.	-64	S <sub>5</sub>	39	Dark, lowering, windy & warm. followed by hard rain from 10 am, till about 1 pm: after- wards fine & clearer. —	49		22
		SW <sub>4</sub>		Night chiefly clear also. —	51		
	-80	SW <sub>2</sub>					
F. 5.	38.02	SW <sub>1</sub>	35	Fair, chiefly bright, with cumuli clouds, & hazy air	39	moon last. 20. 9 1/4 pm.	
		SW <sub>2</sub>		very mild and pleasant	51 1/2		
	-78	S <sub>2</sub>		close & hazy evening, and night, but fine. —			
S. 6.	-20	SE <sub>3</sub>	40	Very cloudy, and became cold- er during the day, wind	42		
		SE <sub>3</sub>		very raw and keen, and con- tinued cloudy more or less	44		
	-22	SE <sub>2</sub>		all day. Night clearer. —			
Su. 7.	-20	SE <sub>1</sub>	32 1/2	Clear, little frost, bright all day, with keen wind, and the	34		
		SE <sub>3</sub>		Evening cold, and chiefly	45		
	-17	SE <sub>3</sub>		clear. — Gentle frost, & less wind in the night.	34		
419.76		225.23032		Mean Temp 37° 78) Rain cal <sup>d</sup> up 0.22.			

# February 1858.

Feb.	Baro. meter	Wind.	Thermom. lowest 8 highest am	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 0.22
M. 8.	30.21	ESE <sub>2</sub>	29	Clear, & gentle frost, very bright forenoon, but clou- dy from 1 pm, very cold and freezing wind, and the	32		
		E <sub>3</sub>		Evening cloudy. —	39		
	-25	E <sub>3</sub>					
Tu. 9.	-21	ESE <sub>2</sub>	28 1/2	Cloudy, dry frost, & keen wind. clearer after 11, and bright	34	☐ ♂ ♀	
		SE <sub>3</sub>		afternoon, but cold wind.	40		
	-25	SE <sub>3</sub>		Plane cirrostratus at 3 set more wind at eve. —			
W. 10.	-28	NE <sub>4</sub>	29	Hazy, blowing & freezing, became clouded over, and	32		
		E <sub>4</sub>		very cold wind all day.	36		
	-22	E <sub>1</sub>		Evening closer, less wind and little sleet. —			
Th. 11.	-06	S <sub>1</sub>	30	Cloudy and very gloomy all day, very little wind, but cold & raw — although	35		
		SE <sub>1</sub>		not freezing since dawn.	37		
	-25	SE <sub>1</sub>		Dark and close night. —			
F. 12.	-29	NE <sub>1</sub>	32	Fog & rain at 6 am, cloudy all day, damp, and very	38		07
		NE <sub>2</sub>		gloomy. The Evening dark	45		
	-32	NE <sub>1</sub>		close, and damp, with very little wind.			
S. 13.	-30	NE <sub>3</sub>	38	Close, damp & overcast, very dark, raw, and un- pleasant. little rain at	40	New moon 10. 13 pm.	
		NE <sub>1</sub>		times after 3 pm. — very	46		
	-22	NE <sub>1</sub>		close & misting night. —			
Su. 14.	-10	NE <sub>2</sub>	37	Overcast and rainy morn- ing, and nearly the same	37	☐ ☉ ☿	38
		NE <sub>3</sub>		till 2 pm, afterwards clear- er and more fair.	43		
	-07	NE <sub>3</sub>		very cloudy evening, and ex- treme more wind.	37		
423.03		223.5286		Mean Temp 36° 39) Rain cal <sup>d</sup> over 0.70			



# February 1858.

Feb.	Baro. metes	Wind	Thermom. lowest 8 highest	Weather &c.	Thermom. 8 pm.	notes	Rain. 0.75
M. 15.	30.84 -03	N <sub>1</sub> NW <sub>2</sub> NW <sub>1</sub>	31 32 44	Frost & partially clear, cold stormy sky, loose clouds, and sleet at times. Clearer evening and less wind, little frost, but the sky stormy.	36		02
Tu. 16.	-01 -16	NW <sub>2</sub> NW <sub>3</sub> N <sub>1</sub>	32 32 43	Frost, with low clouds, and showers of sleet, with sun at times. Evening finer, chiefly clear, less wind, and Aurora Borealis bright.	33	Brilliant Aurora Borealis from 6 1/2 pm.	03
W. 17.	-22 -30	N <sub>1</sub> N <sub>1</sub> NE <sub>0</sub>	28 29 44	Clear, & hard frost, in the morning, bright most of the day. Some dark clouds at a distance. Evenng rather hazy, stars dim.	34 1/2		
Th. 18.	-30 -28	E <sub>3</sub> E <sub>4</sub> E <sub>2</sub>	28 1/2 29 36	Clear, & frost, continued very bright all day, with a very sharp wind; and a clear evening with sharper frost, 28			
F. 19.	-20 -13	E <sub>1</sub> E <sub>3</sub> ESE <sub>1</sub>	25 27 38	Clear, & very sharp frost, continued very bright all day, few clouds, & very cold wind. Evenng very clear, and scarcely any wind.	29		
S. 20.	-09 -04	SE <sub>1</sub> SE <sub>3</sub> SE <sub>3</sub>	23 28 39	Clear, & sharp frost, very hard and white. Very bright all day, & cold wind. The evening similar to the day. - Rather more wind than in previous nights.	30		
Su. 21.	-08 -10	SE <sub>3</sub> SE <sub>3</sub> SE <sub>3</sub>	26 32 41	Clear & frost, with keen wind the day very bright, and cold wind, but rather milder. Hazy about the setting sun, some cirri, and thickening in all the horizon. - Windy night, & less frost.	32 1/2	moon 1 1/2 at 1 am.	

421.98 193.5 285 Mean Temp 34.17 Rain cal up 0.75

# February 1858.

Feb.	Baro. metes	Wind	Thermom. lowest 8 highest	Weather &c.	Thermom. 8 pm.	notes	Rain. 0.75
M. 22.	30.10 29.98	SE <sub>4</sub> E <sub>4</sub> E <sub>4</sub>	30 35 41	Cold & blowing, with but little frost, flying clouds all the forenoon, & a few afterwards, the evening clear and windy as before, but more cloudy during the night.	33		
Tu. 23.	-87 30.01	E <sub>6</sub> ESE <sub>3</sub> ESE <sub>2</sub>	30 36 41	Cloudy, blowing, & some hail in the mornng, became overcast, less wind & little rain, but chiefly fine, close and gloomy, afternoon and evening.	37		
W. 24.	-17 -35	E <sub>2</sub> E <sub>3</sub> E <sub>3</sub>	30 35 43	Clear, little frost, bright all day, and keen wind. The evening also clear, windy and cold. - Frost sharper in the night, & wind less.	32	Δ 78	
Th. 25.	-48 -38	NE <sub>2</sub> NE <sub>5</sub> NE <sub>3</sub>	25 30 39	Clear, and sharp frost: quite clear all day, and blowing hard & very keen blasts from N.E. - The evening the same, and a severe night.	30	Severe blast & very piercing wind.	
F. 26.	-27 -18	NE <sub>3</sub> E <sub>6</sub> E <sub>3</sub>	25 30 39	Very sharp & clear, blowing hard & very piercing. Nearly the same all day, but less wind in the Evenng, & not so cold at 7 1/2 pm, as at 7, but a sharp night.	32	Severe blast continued	
S. 27.	-10 -00	E <sub>2</sub> E <sub>4</sub> NE <sub>2</sub>	24 31 42	Severe frost & clear, continued bright all day, with a keen & brisk wind. - Sharp frost again at eve, but clouds & less cold afterwards. Lunar Eclipse seen well.	30	Full moon 10.5 pm. & partial Eclipse.	
Su. 28.	29.87 -85	NE <sub>4</sub> NE <sub>4</sub> NE <sub>1</sub>	28 38 39	Cloudy & blowing, but milder in the mornng, than of late. - The day very cold and cloudy, with rough wind; little sun at 4 pm, clear evenng, less wind and sharp frost.	29	Little sleet at times.	

421.61 Total gales 3. 192.284 Mean temp 34. - Total rain - 0.75



# February 1858.

## Results of the month.

Barom <sup>r</sup>	Highest on 25 <sup>th</sup>	30.48	Therm <sup>r</sup>	Highest on 5 <sup>th</sup>	51 $\frac{1}{2}$ °
	Lowest on 4 <sup>th</sup>	29.64		Lowest on 2 <sup>nd</sup>	22°
	Range	0.84		range	29 $\frac{1}{2}$
	Mean of month	30.11		mean daily range	11.57
				Mean of Month	35.58.

Rain .75 of an Inch. Fine days 22. Prevailing winds East.

This was a winterly month, in temperature, but with little downfall of any kind, and the Easterly winds established themselves early in the month, and became very keen and strong near the close of the month, the temperature gradually falling all the month, as shown in the weekly means given at foot of the foregoing pages severally. — Very clear skies often prevailed, even during the coldest weather, and sharp gales. The bitter East wind put a sudden check upon the little flowers and vegetables of the garden, and also upon the previously verdant wheat-plants, &c. — Much sickness, and many deaths from old age; and from scarlatina and cynanche Maligna, among children. — These prevailed much, and whole families suffered acutely under them. —

# March 1858.

March.	Baro- meter.	Wind.	Thermometer Lowest 8 highest	Weather &c.	Thermom <sup>r</sup> 8pm.	Notes.	Rain.
Mo. 1.	29.75	NE <sub>6</sub> NE <sub>6</sub> NE <sub>5</sub>	26 33 34	Hard frost, cloudy, blowing hard, & very piercing, with hail at times; began to snow at 3pm, continued snow all the evening. Blowing all the night, & snow at times. —	29	Severe gale, snow drifting fast from 3pm.	①
Tu. 2.	-85 -79	NE <sub>6</sub> E <sub>6</sub> E <sub>7</sub>	27 32 34	Frost, & very blowing & cloudy. The snow drifted in deep ridges, very coarse day, and piercing gale throughout, but less frost after 3pm: cloudy & very blowing night.	34	*04 *40 □88 continued furious blast.	
W. 3.	-81 -93	E <sub>4</sub> ENE <sub>5</sub> NE <sub>4</sub>	28 33 37	Cloudy, rather less wind, but very cold, and rough. Haze very thick upward, sun visible through it, & slight thaw in the day: freezing again at 4pm. Even clearer. —	31	little thaw all the middle of the day. — freezing afterwards.	
Th. 4.	-91 -72	NE <sub>3</sub> NE <sub>2</sub> N <sub>1</sub>	26 32 41 $\frac{1}{2}$	Clear, keen frost, & brisk wind very bright till 2pm, gentle thaw. Light clouds from NW. slowly rising, and came over after 2pm. Even nearly calm, hazy, with frost, & some clouds. —	29	The gale ceased.	
F. 5.	-59 -66	N <sub>1</sub> N <sub>1</sub> NW <sub>1</sub>	27 34 42	Little snow & frost early a.m. cloudy, gentle thaw, after 7am. Sun at times, with a stormy looking sky, but chiefly fair; little frost during night. —	33		
S. 6.	-01 -12	W <sub>7</sub> NW <sub>5</sub> NW <sub>2</sub>	31 39 39	Heavy gale at 5 to 7am, and storm of sleet & snow; more fair in the day & some sun, but hail storms at a distance and cold stormy air. Sharp frost during night. —	30 $\frac{1}{2}$	8 $\frac{1}{2}$ H gale from 2am. —	①
Su. 7.	-23 -30	NW <sub>4</sub> NW <sub>5</sub> NW <sub>2</sub>	25 30 41	Clear, blowing & keen frost some cumule & stormy clouds in the day, with very cold wind but fair & mostly bright. Even more cloudy & less wind, but rose to a gale at 11pm. —	33	moon last 2m 6.10pm. gale at midnight.	
41439			1902685	Mean Temp 32°75. } Rain - can over 0.00.			



# March 1858.

March	Baro- meter	Wind.	Thermom- eter 8 am. 8 pm.	Weather, &c.	Notes.	Rain.
M. 8.	29.24	NW <sub>9</sub>	29	Violent hurricane from 1 till 2 1/2 am; some rain & sleet followed: then fair, bright, and frosty morn'g. - Stormy day, with sleet & sun at times. - Clear Even'g, & frost keen.	Awful hurricane till 2 1/2 am.	.04
		NW <sub>4</sub>	30			
	-51	NW <sub>3</sub>	39 1/2			
Tu. 9.	-63	W <sub>5</sub>	26	Bright & frost early, storm of sleet at 9 am, afterwards fair and bright, with flying cumuli, and wind blustering.		
		W <sub>5</sub>	34			
	-72	W <sub>4</sub>	42	Fine night, gentle frost. -		
W. 10.	-86	W <sub>3</sub>	31	Little sleet at times, chiefly fair and sun, with less wind, but veering back, and the Even'g frosty, clear, and nearly calm.		
		NW <sub>2</sub>	38			
	-97	N <sub>1/2</sub>	43			
Th. 11.	38.01	W <sub>0</sub>	21	Clear, calm, & severe frost till after 7 am. - bright all day, but a very keen air, and some clouds. The evening clear and frost again sharp.		
		NW <sub>1</sub>	29			
	-78	N <sub>1</sub>	43			
		Var. 0.				
F. 12.	-22	NW <sub>2</sub>	23 1/2	Clear, keen frost, & wind rising fine day, & milder, more hazy & few loose clouds, but chiefly sun. More cloudy & hazy from 4 pm; change to rain.		
		WNW <sub>3</sub>	30			
	-77	W <sub>1</sub>	44			
S. 13.	29.60	SW <sub>3</sub>	33	Blowing & hard rain from 5 to 8 1/2 am; afterwards stormy with wind & rain at times, some sun, & very mild.	Aurora Borealis brilliant at 8 pm.	.58
		SW <sub>4</sub>	43	Even'g chiefly clear, & Aurora bright in the North.		
	-30	W <sub>3</sub>	52 1/2			
Su. 14.	-65	W <sub>3</sub>	36	Clear morn'g, and chiefly so in the day, but many clouds and wind gusty, yet mild and more pleasant.	* 4 1/2	
		W <sub>4</sub>	42			
		W <sub>5</sub>	52	More lowering after 2 pm, and a very rainy & squally Evening, but finer after 9.		.45
	-52					
416.58		199.316		Mean Temp 36.82.		Rain cal up - 1.07

# March 1858.

March	Baro- meter	Wind.	Thermom- eter 8 am. 8 pm.	Weather &c.	Notes.	Rain.
M. 15.	29.88	NW <sub>3</sub>	39	Fine with sun & flying clouds, and the Grand Solar eclipse, a splendid scene, creating a solemn darkness about 1 pm. - afterwards rather hazy & more cloudy. - Close & rainy evening.	new moon at noon. The fall during the great eclipse, from 5 1/2 to 4 1/2.	.10
		NW <sub>4</sub>	43			
	30.05	NW <sub>2</sub>	52 1/2			
Tu. 16.	-11	W <sub>2</sub>	42	Bright with many cirri, and very pleasant morn'g; very warm & bright day, with rocky cumuli, and wind brisk.	Δ 8 ♀ great rise of the temperature. Crocus in bloom.	.02
		W <sub>3</sub>	47			
	-77	W <sub>3</sub>	60	Heavy clouds from 4 pm, all the evening. - little rain.		
W. 17.	-31	NW <sub>2</sub>	39	Bright with many clouds, pleasant & mild, with a brisk air. Evening very close, cloudy, and less wind. Night cloudy.	roads & fields dry. - Bats on the wing 1 pm.	
		NW <sub>3</sub>	45			
	-35	W <sub>1</sub>	56			
Th. 18.	-32	SW <sub>2</sub>	42	Cloudy & close, but soon bright and warm, with heavy rocky clouds. Calm even'g, and electric clouds rising from NW.	both butterflies appear - the yellow and the peacock.	
		SW <sub>2</sub>	48			
	-28	W <sub>1</sub>	58			
F. 19.	-37	W <sub>1</sub>	42	Very fine, warm, and pleasant, sun at times, but cloudy more or less, and very light wind. Calm, and cloudy evening, and night.	Birds very musical.	
		NW <sub>1</sub>	49			
	-45	NW <sub>1/2</sub>	58			
S. 20.	-53	SE <sub>1</sub>	43	Lightly cloudy, warm & calm morn'g; clearer from 9 am, bright and warm day, with some light clouds. - Evening hazy, and the night more or less the same.	Δ 0 ♂ roads dusty. Equinox com. 9 1/2 pm.	
		S <sub>1</sub>	49			
	-56	SE <sub>1</sub>	60			
Su. 21.	-58	Var. 0.	41	Very hazy morn'g, became very bright after 9, continued so all day, with few small cumuli. The sun beams very powerful. Sun set clear & red in haze. Clear & calm even'g yet mild, but colder night.	Butterflies numerous - yellow, & two other kinds.	
		NW <sub>1/2</sub>	46			
		NE <sub>1</sub>	61			
	-62	Var. 0.				
424.58		288.4055		Mean Temp 49.53!		Rain cal over - 1.19



# March 1858.

March.	Baro. meter	Wind.	Thermometer lowest 8 am highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain 1/19
Mon. 22.	30.68 -64	Var. o. E 1/2. SE 1/2.	32 39 60 1/2	Frost & fog early, but after 9 very bright and warm all day, & no wind, nor any cloud. Sun set in thin haze, & lightly cloudy in NW; clear night.	49	moon- 1 1/2 Dr. 7-42 am.	
Tu. 23.	-63 -52	SW 1/2. W 1. W 1/2.	35 43 67	Very bright all day, and hot for the season from about noon to 5 pm, and a lovely evening balmy & clear. Sun set deep red in haze. Birds very tuneful.	52	Δ 8 1/2	
W. 24.	-35 -21	W o. WNW 2. WNW 3.	39 49 67 1/2	Sun rose deep red in haze, very bright all day, then haze below, & little more wind, but hot for the season. Sun set very red in thick haze. - Hazy evens, & cooler. - Very hazy night.	49	Butterflies numerous. Hawthorn leaf.	
Th. 25.	-29 -38	NE 1/2. N 2. N 1.	40 46 48	Clouds & sun, with cooler breeze, more cloudy, & colder in the day, very little sun, and great change, but still fair. - Evens cloudy, little wind.	41		
F. 26.	-32 -24	SW 1. W 3. W 2.	34 41 55	Very fine, and bright, with a brisk wind, & few light electric clouds. - Sun set very rosy in thick haze. - Evening hazy & less wind.	46	annual flowers opening	
S. 27.	-26 -31	NW 2. NE 1. E 1. SE 1.	33 40 54 1/2	Bright with light clouds, & cold morn'g; from 9 till 1 very bright & warm, afterwards cloudy at times, and a very, hazy evening.	44	violets blooming	
Su. 28.	-30 -22	SE 1. S 3. S 2. SSE 1.	40 46 58	Cloudy but soon bright after 8, very fine and warm, with electric clouds in different currents: thicker clouds all the evening till 7, then clearer. - Rather hazy all night, and very little dew.	45		
42.535		25.34105		Mean Temp 47° 39. Rain cal up 1.19			

# March 1858.

March.	Baro. meter	Wind.	Thermometer lowest 8 am highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 1/19
Mon. 29.	30.76 -02	SE 1. SW 3. S 3 SSE 2.	41 49 62	Hazy & electric, grey clouds about: very bright from 11 am all the afternoon, but hazy at sun set, and during evening about horizon. Sun & moon very red.	49	Full moon 7 m past noon. few cow slips in flower.	
Tu. 30.	29.88 -77	S 3. SW 4. SW 2.	35 47 62	Hazy & electric, with sun & very warm at noon, more haze, & heavier clouds from 1 pm, and a stormy & thick sky afterwards. Windy & warm during the night.	52	very stormy looking sky all pm.	
W. 31.	-56 -30	SW 4. S 4. SE 4.	46 54 60	Warm, with low clouds, & squally wind: more clouded dark, & rainy from 2 pm, and all the rest of the day, till after 8 pm.	52	wind to westward during night.	73
178.69		Gales 4. 12 2 18 4		Mean temp 3 days 51° - Total rain - 1.32			

## Results, March 1858.

Barom.	Highest on 22 <sup>nd</sup> 30.68	Therm.	Highest on 24 <sup>th</sup> 67.5
	Lowest on 6 <sup>th</sup> 29.01		Lowest on 11 <sup>th</sup> 21
	range - 1.67		range - 46.5
Mean of Month 29.99		Mean daily range 17.16	
		Mean of Month 42.53	

Rain 1.32 Inch: - Fine days 23: - Prevailing current NW. The former half of this month was very cold & winter-ly, ending with a genial rain on 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> & 16<sup>th</sup>; but the latter half proved warm & chiefly very fine for the seed-time, although great shows for rain & which fell again on 31<sup>st</sup>. - Much sickness & many deaths, in town & country all the month, among the consumptive, and the aged especially.



APRIL 1858.

April.	Baro. meter	Wind.	Thermometer lowest & highest am	Weather &c.	Thermom 8pm	Notes.	Rain.
Th. 1.	29.22 -90	NW <sub>4</sub> NNW <sub>6</sub> NW <sub>3</sub> 2.1.	39 39 47	Cloudy, squally wind, and some rain; became very blowing & cold, with very little sun, but very cloudy, & sleet, rain, & hail at times. Evenng clearer less wind, & very cold.	36		05
Good Friday 2.	30.05 29.88	SW <sub>1</sub> S <sub>3</sub> S <sub>2</sub>	27 38 48	Keen frost early, hazy after sun rise, and chiefly hazy and cloudy all day, with cold air, and little rain after 5 pm, and at times during the night.	38	☐ 1/4 ♀ ☐ 1/4 ♂ ♂ ♀ ♀	
S. 3.	-67 -64	S <sub>2</sub> SW <sub>4</sub> W <sub>4</sub>	38 44 61	Squally with rain at times, in showers, & warm here at other intervals. - After 3 pm, very heavy storms, lightning and thunder, some hail, & gusts of wind. Windy night.	51	Severe thunder storms from 3 to 5 pm.	16 35
Su. 4.	-99 30.28	NW <sub>2</sub> N <sub>1</sub> N <sub>1</sub>	41 47 51	Rain early; cloudy morn, and till noon, but brighter after 1 pm, keen air, and lighter clouds. Clear yellow sunset, and cold Evenng; night in part rather frosty.	38		08
M. 5.	-29 -03	ESE <sub>4</sub> E <sub>5</sub> E <sub>4</sub>	34 42 49	Cloudy, & blowing, little gleams of sun, with mixed electric clouds in opposite currents, the upper from WSW, quite against the lower. very cold blowing day, and the night dark & windy.	38		
Tu. 6.	29.92 30.10	E <sub>4</sub> E <sub>4</sub> E <sub>2</sub>	36 42 48	Still blowing & cloudy, the same more or less till noon; the afternoon brighter with light arcs of cloud in upper current from SW, but still a cold breeze below from E. Cold Evenng.	36	moon last Dr. 1. 43 pm.	
W. 7.	-04 29.87	ESE <sub>3</sub> ESE <sub>4</sub> E <sub>5</sub> ENE	35 42 47	Cloudy, cold wind; and the whole day alike gloomy and thick, with very cold and boisterous wind. Rain from 5 pm, and very dark blowing evening & night, with rain at times.	39	Began to rain at 5 pm.	12
41888	6.	250	351	Mean Temp 42.92.	Rain cal. up 0.76		

APRIL 1858.

April	Baro. meter	Wind.	Thermom. low 8 high	Weather &c.	Thermom. 8 p.m.	Notes.	Rain. in 24
Th. 8. 29.64		E 5. 37		Blowing, cold, dark, & wet morn- ing. The whole day overcast and very cold, with rough wind & rain at times; finer from 4 p.m. but very cloudy blowing & cold.	37		24
F. 9. -92		E 5. 35		Cold & windy, very piercing as before, but fine, and bright, with arcs of light clouds, the evening in part clear, & wind less, with streaked sky.	36	Amora. Revealed my in- tense at 9 & 10 p.m.	
S. 10. -99		E 3. 33		Bright with keen wind, and lofty arcs of dappled cloud very clear sun-set, and the twilight very strong.	36		
	30.05	ENE 3	42				
Su. 11. -01		NW 1. 28		Keen frost early, fine sunny day, with cumuli clouds, and a cool breeze. - Evening clou- dy, and cold breeze at N.		☐ ☉	
	29.98	NW 2. 38		Cloudy & thick at 9 1/2 p.m. -	40		
		N 2. 55					
M. 12. 30.07		NW 1. 33		Hazy, little snow, continued ve- ry cloudy and cold all day, with a few flakes of snow at times: calm evening, and rather clearer. -	39		
	-04	NW 1. 40					
		W 0. 45					
Tu. 13. -11		NW 2. 25		Clear & very keen frost, conti- nued bright all day, and warmer, with small cumuli & very little wind; but veered to SE - 4 p.m. - Clear Evng. -	40	new moon 11 1/4 p.m.	
	-22	E 1. 39					
		SE 1. 52					
W. 14. -30		SE 2. 29		Frost early, & bright morn'g, much warmer after 7 a.m. but hazy, & rather cloudy, with more wind, and more cloudy after 12. -			
	-28	SE 3. 44		and so continued - the Evng the same, & few drops of rain.	44		
		SE 3. 53 1/2					
42 0'37		22 0'34 1/2		Mean Temp 40° 35.		Rain cald over 1'00	



# APRIL 1858.

April	Baro. meter	Wind.	Thermom. lowest 2 m. highest	Thermom. 8 pm.	Notes	Rain. 1.00
Th. 15.	30.22	S 2.	41		Hazy & cloudy morn'g, bright after 10, and very warm, with light hazy & dappled clouds.	wryneck piping.
		S 3.	51			horn-chesnut leaf.
	-15	S 1.	65		Close even'g, and more hazy, very warm night.	55
F. 16.	-08	S 1.	48		Warm & hazy morn'g; became very bright and very hot, with electric dappled clouds, more cloudy & cooler from 4 1/2 pm.	wryneck heard much.
	-10	SW 1.	59		Very hazy even'g. Thunder storm at 12 pm.	lightning all night rain & storm at 12.
		Var. 1.	74 1/2			55
S. 17.	-02	N 2.	46		Thunder storms passing near till after 4 am; fine afterwards, but very cloudy with low clouds; the evening clear, and pleasant, with mist on the valleys.	Heavy rain thunder &c. all the morning from before 1 till 4 1/2 am.
		N 2.	54			40
	-24	NW 1.	55			48
Su. 18.	-32	S 1.	34		Fog early & little hoar frost, very bright and warm from 8 am.	swallows appear.
		S 1.	54		very clear all day, and a gentle wind. Clear orange sunset, and twilight strong.	52
	-32	SE 1.	64 1/2			
M. 19.	-28	SE 1.	35		Clear, very bright, continued so all day, and very warm all the mid-day. Little hazy about west at sun-set.	Sycamore leaf.
		E 2.	56			Cuckoo sang.
	-22	E 1.	67 1/2		and streaky sky.	51
Tu. 20.	-19	Var. 0.	38		Light cirri & haze upward, but bright and warm, the heat more after 1 pm, very close & still air light cirri, and sun. - A sparke- lion S. of sun 6 pm.	moon 1 1/2 Do 2. 26 pm. Willow & Poplar leaf open.
		Var 1/2.	57		Clear & dewy night after 9 pm.	56
	-23	SE 1/2.	69			
W. 21.	-35	Var 1/2.	39		Very bright, and very hot all the day, and scarcely any wind. The evening more hazy, and little fog rising in the S.E. - very fine and	swallows numerous, vegetation hibernated onward
		W 1/2.	60			56
	-44	SE 1.	73		calm night.	

42376

2814685

Mean Temp 53° 53.5 Rain cald up 1.40.

# APRIL 1858.

April	Baro. meter	Wind.	Thermom. lowest 2 m. highest	Thermom. 8 pm.	Notes	Rain. 1.40
Th. 22.	30.52	SE 0.	42		Bright with electric light clouds at 6 am, very bright all day, & hot, but rather more wind than of late. Hazy about the horizon at sunset.	* 1/2 4 * 1/2 8 Maple in leaf.
		SE 1.	60			54
	-54	SE 2.	72			
F. 23.	-48	SE 1.	43		Very bright with a parching air, wind more than previously, & some sulphur-scented haze. Clear easy sunset, wind gone, & quite clear upward.	64 1/2
		SE 2.	60			54
	-37	SE 0.	71			
S. 24.	-19	SE 1.	45		Very bright and hot, with change of wind at 10 am & more blowing with electric trains of cloud, windy afternoon. Flying cumuli & sun: wind less at sunset.	Stormy looking clouds.
		SW 3.	64			57
	-23	W 5.	70			
Su. 25.	-18	SW 1.	43		Bright morn'g, but much cloud after 8, in mixed stormy groups, trifling rain at times, but often bright. More clouded from 2 pm and wind veered about.	Cuckoo daily heard. This week past.
		SW 1/2.	58		Clear even'g, hazy night.	50
	-15	Var. 0.	63			
		E 1.				
M. 26.	-25	NE 1.	40		Dripping fog & cooler air, became bright at 11 am, very bright and warm afternoon, with light clouds in adverse currents. Foggy night, and lit the wind.	49
		NW 1.	48			
	-18	SE 1.	64 1/2			
Tu. 27.	-21	N 1.	40		Cloudy, and cool till noon, fair & bright afternoon, with light clouds, and a cool breeze. - The night at so chiefly cloudy.	* 1/2 8 Cuckoo more heard than before.
		N 1.	47			47
	-23	N 1.	56			
W. 28.	-22	NW 1.	42		Cloudy morning, but cleared after 8 am, became very warm and bright, with electric cumuli. Evening very cloudy at times, & signs of rain or storm.	64 1/2 Full moon 2. 56 am.
		SW 1.	52			56
	-10	S 1.	67 1/2			
		SE 2.				

42385

295464

Mean Temp 54° 21. Rain cald over 1.40



# APRIL 1858.

April.	Baro- meter.	Wind.	Thermometer low. 9 high.	Thermom- eter 8pm.	Notes.	Rain.
Th. 29	29.77	S. 1. SW 2. SW 3.	42 52 60		Cloudy & hard rain from 7 to 9 am, afterwards bright at times, with stormy clouds, & little showers. Squally sky at sun-set, and coppery clouds. Cloudy night.	27 03
F. 30.	-28 -21	SW 3. SW 5. W 2.	48 53 56		Lowering and very rocky clouds followed by storms of hail, rain & wind, with some Thunder. Cold evening and Night; & wind less for some hours.	06
117.86	Gales 3.	90	116	Mean temp 2 days - 51° 5. Total Rain 1.76.		

## Results for April 1858.

Baromr.	Highest on 22 <sup>nd</sup> - 30.54 Lowest on 30 <sup>th</sup> - 29.21 Range - 1.33 Mean of Month 30.06.	Thermomr.	Highest on 16 <sup>th</sup> - 74° 5 Lowest on 13 <sup>th</sup> - 25° Range - 49° 5 Mean daily range - 19.95 Mean of Month - 48° 00
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Rain 1.76 Inches. Fine days 22. Prevailing winds E. - SW. & SE.

The first 14 days of this month were mostly cold, and ungenial, but from the 15<sup>th</sup> generally Spring weather and vegetation advancing. Stormy & cold again on 30<sup>th</sup>. Much sickness and many deaths in town, and country. Scarlatina, Bronchitis, and rheumatic affections very prevalent.

# MAY 1858.

May.	Baro- meter.	Wind.	Thermometer low. 9 high.	Thermom- eter 8pm.	Notes.	Rain.
S. 1.	29.23	SW 4. S 4. SW 2.	37 1/2 51 57		Bleak & clear morn'g, stormy sky & rocky from 9 am, and during afternoon. black, with hail, rain, vivid lightning, & Thunder. Cloudy and hazy evening.	16
Su. 2.	-37 -57	SW 2. NW 2. N 2.	43 50 54		Dark lowering morn'g, and very showery till after 11; finer afternoon, rocky clouds, and Sun, and a bright evening but cold, & some very rocky clouds, also on west horizon.	12
M. 3.	-58 -80	NW 2. N 1/2. E 1. N 1.	37 52 56		Clear & cold morn'g, very rocky & stormy clouds after 9 am, showery afternoon & some hail; wind veering about. Clearer from 3 pm. bright & chill even- ing.	06
Tu. 4.	-87 30.05	NW 3. NE 1. Var. 0.	41 49 58 1/2		cloudy & showery, but bright at times, and most so, at 1 and 2 pm: Even'g more settled & chiefly bright, with a more electric kind of cloud.	03
W. 5.	-11 -15	NW 1. W 3. NW 1.	37 56 65		Clear, chilly morn'g, but much warmer from 8 am, very warm from 11 till 2 pm, then dark and showery till about 6, fine & clearer night.	25
Th. 6.	-35 -47	NW 2. NE 3. NE 2.	38 54 58		Clear morn'g, and a fine & bright day, with cold wind and cumuli clouds. Even- ing clear & cold. Sun set brilliant yellow.	moon last 2d 6.40 am.
F. 7.	-50 -52	NE 2. NE 3. NE 1.	34 52 58		Clear & frosty, early am; fair & bright day, with light clouds, and very cold wind. The afternoon nearly clear, but still cold. Sun set quite clear.	43
418.84			267.5406.5	Mean Temp 48° 14. Rain cald sun 0° 6 2		



# MAY 1858.

May	Baro- meter	Wind.	Thermom. low. 9 high.	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 1.10
S. 8	30.46	NE <sub>1</sub> NE <sub>2</sub> NE <sub>2</sub>	35.2 51 57	Hazy morn'g, and cloudy till 3 pm, then bright with rocky cumuli, till 6 pm, afterwards very cloudy, and a warmer night. —	46	* H & 8	
Su. 9.	-30	NE <sub>1</sub> E <sub>2</sub> E <sub>2</sub>	44 53 63	Rocky & electric, with sun, fair and mostly bright with a very strong blue haze. — Hazy evening & breeze all night. — No dew, but very fine. —	48		
M. 10.	-24	ENE <sub>2</sub> ENE <sub>3</sub> E <sub>1</sub>	44.2 58 64	Hazy but bright, and a parching breeze; quite clear after 11, and no haze, but some distant cirri, and parching wind continued. Clear & rosy sunset. —	50		
Tu. 11.	-16	ENE <sub>2</sub> NE <sub>3</sub> NE <sub>2</sub>	44.2 61 65	Hazy & sun red at rising, became bright, with electric cumuli, & hot; wind brisk, and much of the mixed trains of electric clouds in different currents. Cloudy evening and night. —	49	84.8	
W. 12.	29.87	NW <sub>3</sub> N <sub>2</sub> N <sub>1</sub> NW <sub>1</sub>	46 51 54	Cloudy, light rain from 5 am; and lowering and showery all day, but some sun at intervals. — Fine evening, with sun & cloud. —	47		
Th. 13.	-32	SW <sub>2</sub> Var. o. W <sub>1</sub>	41 56 57	Bright morn'g, but soon cloudy very dark and lowering from 10 till 1 pm, frequent rain & distant thunder. — Fairer after 1, but some rain & continual thunder in P.M. & showery evening till 7 pm. —	52	new-moon. 7-47 am Thunder in P.M.	15
F. 14.	-35	SSW <sub>2</sub> S <sub>4</sub> SE <sub>3</sub>	45 57 62.2	Cloudy, hazy, & electric with sun at times: more hazy, windy and stormy looking after 1 pm. but less wind after 4. very hazy and cloudy evening. rain from 5 pm, and hard till after 9 pm. —	52	Hawthorn flowered yesterday. very wet evening.	22

420.90

30054223

Mean Temp 51° 64. Rain car up 1.10

# MAY 1858.

May	Baro- meter	Wind.	Thermom. low. 9 high.	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 1.10
S. 15.	29.67	S <sub>2</sub> SW <sub>3</sub> SW <sub>2</sub>	49 57 61	Close, warm & lowering, with rain from 9 till 12 noon; the afternoon fine, but much cloud, and but little sun: Evening bright, but some stormy clouds. —	56	* Oh 80.8 Elm in leaf.	14
Su. 16.	-66	SW <sub>3</sub> SW <sub>3</sub> W <sub>2</sub>	49 59 63	Warm, squally & lowering morn'g. Bright at times till near 12, afterwards frequent showers, distant thunder, and squalls of wind. Red sky at sunset, & windy night. —	55	Δ h 8	17
M. 17.	30.08	SW <sub>3</sub> SW <sub>4</sub> SW <sub>3</sub>	49 59 61	Windy, squally and lowering, more or less all day, and a very little rain at times; close and dark in general the whole day. Very sultry all night. —	57		22
Tu. 18.	-04	SW <sub>3</sub> SW <sub>4</sub> W <sub>4</sub>	56 61 67	Sultry & cloudy till noon, then bright till after 3, and very warm, but windy: but at 3 1/2 pm. a driving storm from WNW, then a clear evening, and night. —	54	Oak in leaf	12
W. 19.	30.03	SW <sub>4</sub> SW <sub>5</sub> SW <sub>3</sub>	46 58 66	Blowing and clear morn'g, and very windy all day with rocky clouds, and sun. Storms at a distance, and looking like thunder there. —	54	804 moon 1 <sup>st</sup> Dr. 10-20 pm	
Th. 20.	30.18	SW <sub>2</sub> W <sub>2</sub> SW <sub>1</sub>	46 59 70	Bright, with cumuli clouds, and very pleasant and warm from 10 am; the evening very warm, and some electric clouds. Hazy Evening from 7 pm, & mottled sky. —	60	80 H Ash in leaf.	
F. 21.	-10	S <sub>2</sub> S <sub>4</sub> S <sub>2</sub>	50 66 73	Hazy but soon bright and hot, with brisk wind, and small electric clouds; continued bright till 1 pm, afterwards very hazy. Cloudy night & rather inclined to squally. —	61	All the landscape is green and flourishing	

41943

345461

Mean Temp 57° 57. (Rain car over 1.55



# MAY 1858.

May.	Baro. metr.	Wind.	Thermometer Lowest 9 highest	Thermom. 8pm	Notes	Rain 1.55
S. 22.	29.93 30.00	SW <sub>3</sub> SW <sub>5</sub> SW <sub>2</sub>	52 62 67		Shower early a.m. fine & bright forenoon, with rocky cumuli, little shower at 1pm, windy & bright afterwards, with flying clouds. Hazy Eveng, & less wind. Fine night.	08 03 58
Su. 23. Whitsun.	29.90 -88	SW <sub>2</sub> SW <sub>4</sub> SW <sub>2</sub>	49 61 67		Bright morn'g; brisk wind, & flying clouds, followed by thunder showers at 11 1/2 a.m., and at a distance in the afternoon. and a shower here again at 8 1/2 p.m.	05 12 56
M. 24.	-98 -76	W <sub>3</sub> SW <sub>1</sub> SSW <sub>2</sub>	50 59 61		Clouds & sun, with thick sky & little showers at times. Close, cloudy, & very thick, & hazy evening, with rain after 7 p.m. - & rainy night.	03 25 54
Tu. 25.	-87 30.37	N <sub>3</sub> N <sub>4</sub> N <sub>3</sub>	48 53 56		Very rainy till 11 a.m., and again from 1 till 3 p.m., with dark clouds, & rough wind. Afterwards fair, and some sun from 5 p.m., & clear & set.	65 48
W. 26.	-62 -56	NW <sub>1</sub> Var <sub>2</sub> SE <sub>1</sub>	43 1/2 57 61		Bright with cumuli clouds, and wind but little; but very changing from noon till 3 p.m. - then SE, and very cloudy from thence all the Evng.	great rise of Barom- eter. 53
Th. 27.	-33 -22	SW <sub>3</sub> WSW <sub>4</sub> W <sub>2</sub>	48 56 66 1/2		Cloudy & hazy morn'g; lowering & little wet at 8 a.m.; and very cloudy till after 12. Fine afternoon, chiefly bright, with heavy rocky clouds around us. Hazy and closer evening.	Full moon 6.5 p.m. 04 Silas in full bloom. 59
F. 28.	-20 -25	NW <sub>3</sub> NW <sub>2</sub> W <sub>0</sub>	50 58 62		Clouds and sun, with a cool breeze, less wind after 1 p.m. but much clouds, and less sun. The Evening close and calm, with a very red sunset, and dusky clouds.	56
42.187 340.54405 Mean Temp 55.78. Rain car up 2.80						

# MAY 1858.

May.	Baro. metr.	Wind.	Thermometer Lowest 9 highest	Thermom. 8pm	Notes	Rain. 2.80
S. 29.	30.28 -20	W <sub>0</sub> WSW <sub>1</sub> SW <sub>1</sub>	47 60 69		Bright, dappled, calm & warm morn'g; but soon cloudy & thick from 8 a.m.; became bright & hot after 3 p.m.: sultry evening, with electric dappled clouds. - Hazy night.	Laburnum in flower and the landscape fully equipped. 63
Su. 30.	-23 -24	SW <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	54 62 76		Hazy & electric, but became bright after 10 a.m., and so continued with some light clouds, blue haze, & very hot; Evng very hazy & sultry, and a perfect Summer-night!	very great rise in the tem- perature. 68
M. 31.	-25 -24	S <sub>1</sub> SSE <sub>2</sub> S <sub>1/2</sub>	56 75 80		Very hot & close morn'g, bright from 8 a.m., & extremely hot till about noon, afterwards hazy, & sultry, till 4 p.m., then again bright, very electric & dappled sky.	great ac- cess of temperature. 70
181.44 157 225 Mean Temp 3 days 63.66. Total rain - 2.80						

## Results for May 1858.

Barom <sup>r</sup>	Highest on 26 <sup>th</sup> - 30.62. Lowest on 1 <sup>st</sup> 29.23. Range - 1.39 Mean of Month 30.04	Thermom <sup>r</sup>	Highest on 31 <sup>st</sup> - 80° Lowest on 7 <sup>th</sup> - 34° Range - 46 Mean daily range - 17.58 Mean of Month 54.29
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Rain 2.80 Inches. Fine days 14. Prevailing winds S.W.

This was a showery month nearly throughout, with frequent Thunder & hail, but from the 20<sup>th</sup> a good growing time to the end, and very hot on the last three days. Fields and gardens very promising, and the whole landscape in full splendour. Considerable sickness and mortality among the young and the delicate of all ages, both in Town and Country. - Profusion of bloom on the Hawthorn, Lilac, Laburnum & most apple-trees this season! The Lilac & Hawthorn unusually rich in their flowers.



# JUNE 1858.

June.	Baro. meter.	Wind.	Thermometer lowest 9 a.m. highest.	Weather &c.	Thermometer 8 p.m.	Notes.	Rain.
Tu. 1.	30.21 -24	SSE <sub>0</sub> SE <sub>1</sub> NE <sub>1</sub>	58 78 88	Sultry morn'g, very electric knotty cumuli, but bright & calm; and quite clear from 8½ a.m. exceedingly hot & brilliant all day. Some electric cumuli after 4 p.m. Evening chiefly clear, red & sep.	71	A beautiful broken halo, and inverted segment at 6 a.m. in strongest colours.	
W. 2.	-27 -20	E <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	55 76 82½	Clear, very bright, and very hot with small electric clouds rising from west, against the under current. Arcs of dark cloud from SW after 6 p.m. and very close & sultry during night.	88½ 65	wheat ears opened	
Th. 3.	-16 -01	S <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	60 73 83½	Very sultry morn'g, with electric beds of cloud, & thunder in NW. Very bright, & extremely hot from 9 a.m. all the mid-day, followed by a dense blue haze after 3 p.m. very hot & close Even'g. Lightning from 9 p.m. NW & N. and then East at 12 p.m.	72	Much lightning from 9 p.m. NW & N. and then East at 12 p.m.	
F. 4.	-21 -31	W <sub>1</sub> SW <sub>1</sub> SE <sub>1</sub>	61 74 80	Vivid lightning in East till 3 a.m. & thunder heard at times. Fine and bright morn'g, so continued and very hot, with cumuli more electric in the Even'g, and distant lightning westerly & southerly during night.	67	MOON last fr. 8.21 p.m. lightning again in the night.	
S. 5.	-26 -35 -16 -21 -17 -21 -18	SE <sub>2</sub> W <sub>4</sub> NE <sub>4</sub> Var. <sub>0</sub>	57 65 69½	Sultry & hazy, with Thunder in SW from 6½ a.m. grand arc of black cloud intersected by white horizontal bands plane & undulated from SW, with rain lightning & thunder from 8½ to 10 a.m. Continued Thunder in East again from noon to 1 p.m. & also in SW at 5 p.m.	65	The Barometer etc. and wind continually varying. Awful hail in many places.	50
Su. 6.	-28 -31	NW <sub>1</sub> N <sub>1</sub> NE <sub>1</sub>	59 64 65½	Close, cloudy & little rain at times in the morn'g; but fair from 7 a.m. cloudy, with little sun gleams, & gentle wind. Even'g more bright, and a very rosy sunset.	57	A peculiar close, and pleasant afternoon and evening. Dog rose open.	0.2
M. 7.	-29 -19	NE <sub>2</sub> E <sub>3</sub> E <sub>2</sub>	50 59 68	Thin & low clouds with cooler breeze, and mottled clouds in upper current from SW. Bright afternoon, sheets of thin cirri, and very brisk wind. Fine night, and less wind.	56	Distant electric growled in P.M. all p.m.	
423.09		400.537		Mean Temp 66.92 Rain cal up 0.52			

# JUNE 1858.

June.	Baro. meter.	Wind.	Thermometer lowest 9 a.m. highest.	Weather &c.	Thermometer 8 p.m.	Notes.	Rain.
Tu. 8.	30.12 -05	E <sub>2</sub> E <sub>2</sub> E <sub>2</sub>	52 68 74	Bright & breezy morn'g; very hot from 9 a.m. and no cloud all the afternoon; the Evening very hazy, & a streaked sky, but a very fine & warm night, soft breeze, & little dew.	62	The landscape is most lovely & surpassing what is usual.	
W. 9.	-03 -08	E <sub>2</sub> E <sub>½</sub> SE <sub>1</sub>	57 74 83	Bright with electric curdy clouds, and very hot; quite clear from 9 a.m. extremely hot, & very little or no wind. Sun set in a distant bank of Thunder cloud, but a fine night, & no wind.	71	Thermom 83° from 12 past 12 till 3, and at 5 p.m. 81°.	
Th. 10.	-12 -20	E <sub>2</sub> ENE <sub>2</sub> NE <sub>1</sub>	56 73 78	Bright and very hot, with a fresh breeze, and very parching. Sun set quite clear, and deep orange tinted. Very clear evening, and cooler night, with much dew.	67	wheat fully in ear.	
F. 11.	-19 -17	W <sub>½</sub> Var. <sub>1</sub> SE <sub>1</sub> SE <sub>0</sub>	54 72 78	Very bright and hot, but some cumuli from 9 a.m. and close air with rocky groups in combat, with various currents. Even'g brighter but hazy, & much electric cloud in serrated lines, & dappled sheets. Mist on the valleys 9 p.m.	66	New moon 2.46 p.m. Δ 8½ * 7½	
S. 12.	-13 -10	Var. <sub>0</sub> SE <sub>½</sub> SE <sub>2</sub> Var. <sub>0</sub>	54 70 77½	Fog early & till 6 a.m.; then bright, and very hot, till about 3 p.m. afterwards more electric, black in the west, & little shower 6 p.m. lightning & thunder near in W. & SW. Mist on valleys 9 p.m.	65	Thunder shower from W. at 6 p.m.	11
Su. 13.	-12 -10	SE <sub>1</sub> SSE <sub>2</sub> S <sub>1</sub>	54 73 82	Fog early till 5 a.m. very hot and brilliant morn'g. continued so all day, and much hotter, with a fresh breeze, & light clouds. Very electric dappled sky all the Even'g. Much lightning at midnight.	70	Beautiful electric skies.	
M. 14.	-08 -10	SE <sub>1</sub> SSE <sub>2</sub> SSE <sub>½</sub>	62 79 86	Some Thunder, lightning & heavy rain 1½ a.m. bright & very hot morn'g, with electric cumuli in beautiful beds. Excessively hot all day, haze & electric sheets of cloud, but often bright. Even'g very oppressive and chiefly clear but a jagged electric corrugated in west.	77	Sharp thunder storm to 2 a.m. 11 a.m. 82° 12-84° 2 p.m. 86° 5 p.m. 84° 6 p.m. 81°	17
421.59		389.5585		Mean Temp 67.678! Rain cal over 0.80			



# JUNE 1858.

June.	Baro- meter	Wind.	Thermom. lowest 9 highest	Weather, &c.	Thermom. 8 pm.	Notes.	Rain 0.80
Tu. 15.	30.15	ESE <sub>0</sub> SE <sub>1</sub> SE <sub>2</sub> E <sub>2</sub>	64 80 89	Very bright, & most excessive- ly hot, no wind till noon; then a little breeze. Much cir- rus over all the sky at sun- set, and hazy about the S, & S.E. very close night.	75	7 am 72° 10 am 84° 11 am 86° noon 88° 1 pm 89° 5 pm 83° 6 pm 80°	
W. 16.	-12	SE <sub>2</sub> SE <sub>2</sub> SE <sub>1</sub>	63 82 92	Excessively hot, and clear, but a fresh breeze about 1 pm. yet the heat was scarcely af- fected by it. Distant electric clouds in West from 3 pm - very distant lightning 11 pm, and after.	78	7 am 73° 8 am 77° 10 am 85° 11 am 88° noon 91° 1 pm 92° 5 pm 85° 6 pm 83°	
Th. 17.	29.92 30.00	S <sub>2</sub> SW <sub>3</sub> WSW <sub>2</sub>	64 76 79	Mixed electric clouds, and much thunder from 8 am; with heavy showers till 11 am. - Thick blue haze from 1 pm. and rain after 2; close sultry & showing, and a very heavy shower 6 pm. Fine night, but cloudy, and close.	68	64 Thunder all forenoon, in many points.	75 19
F. 18.	-14 -20	E <sub>1</sub> Var. NE <sub>1</sub> E <sub>1</sub>	61 66 70	Cloudy morn'g, clearer after 9 and sun at times, but many black & threatening clouds, with thunder Eastward at 3 pm. Cloudy evening, very little wet a short time. Fine night.	64	moon 1 <sup>st</sup> Dr. 9.14 am. Thunder Eastward 3 pm.	02
S. 19.	-25 -27	SW <sub>1</sub> SW <sub>1</sub> SE <sub>1</sub>	54 68 75	Bright, but hazy, with very rocky clouds and very close and hot afternoon. - Sun set red in a huge rocky bank of cloud. - Close and hazy night.	67		
Su. 20.	-30 -32	W <sub>1</sub> W <sub>1</sub> SE <sub>1</sub> Var. o.	61 71 73	Bright with rocky cumuli, and very close & sultry with more clouds after 2 pm, dark & mixed kinds. Evening clearer, and calm. Very pleasant, & soft air, but hazy night.	65	64 gardens now in fullest beauty.	
M. 21.	-41 -45	Var. o. NE <sub>1</sub> NE <sub>1</sub>	50 64 75	Fog early, bright from 8 1/2 am; very fine, bright & hot day with small light clouds & cirri above the cumuli. Hazy on West horizon at sun- set. - Very fine night.	66		
422.68		417.5535		Mean temp 69° 32' Rain carried over 1.16			

# JUNE 1858.

June.	Baro- meter	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 1.16
Tu. 22.	30.44	NW <sub>2</sub> N <sub>2</sub> E <sub>1</sub> SE <sub>0</sub>	57 74 81	Bright morn'g, so continued & very hot, in spite of North wind. Evening calm, and ve- ry hot, and sun set in pure golden lustre. Twilight ve- ry strong & much dew.	71		
W. 23.	-50 -39	SE <sub>0</sub> NE <sub>2</sub> E <sub>1</sub>	60 75 80	Bright with a few electric & light clouds, & very hot till noon, afterwards very cloudy & close, Evening and night the same more or less.	69	* ♀ H	
Th. 24.	-32 -45	WNW <sub>2</sub> NW <sub>4</sub> NW <sub>2</sub>	61 68 68	Sultry close & cloudy morn'g, with rose after 8 am, very squally from 9 am, & much cooler, many clouds, & sun between. Even'g bright & wind less. Some cirri in many forms.	58	Great change to blustering & cool.	
F. 25.	-43 -34	NW <sub>2</sub> NW <sub>1</sub> W <sub>2</sub> SE <sub>1</sub>	51 65 71	Bright with cumuli clouds, and hot again after 10 am, pleasant and nearly calm afternoon; wind to S.E. at 6 1/2 pm, hazy and more electric. Evening - Fine night, but hazy.	63	wind varied much all the p.m.	
S. 26.	-24 -12	W <sub>2</sub> W <sub>4</sub> W <sub>2</sub>	54 74 80	Bright with cirrostratus in lines westward; very hot day, and chiefly sun, with electric knotty clouds. Evening more clouded and hazy. Sultry night.	70	Full moon 9.13 am. Evidently thunder- storms at a distance.	
Su. 27.	-17 -23	W <sub>2</sub> WNW <sub>2</sub> NW <sub>2</sub> NW <sub>1</sub>	57 64 70	Bright with cirri clouds, fol- lowed by dark cumuli, and a cooler breeze, but chiefly bright the evening very hazy, and many dark rocky clouds, but clearer in the night.	62		
M. 28.	-29 -16	NW <sub>2</sub> W <sub>2</sub> SW <sub>2</sub>	47 64 72	Bright, & cooler morn'g, con- tinued bright, with cumuli, & cirri, and much warmer again. - More electric in the Evening, with mixed clouds & haze.	67		
424.56		388.522		Mean temp 65° 00' Rain carried over 1.16			



# JUNE 1858.

June	Baro- meter	Wind	Thermom <sup>t</sup> lowest 9 am	highest	Weather, &c.	Thermom <sup>t</sup> 8 pm.	notes	Rain- 1/16
Tu. 29.	30.19 -28	W <sub>4</sub> . NW <sub>2</sub> . W <sub>1</sub> . SE <sub>2</sub> .	58 63 70		Very warm morn'g, with brisk wind, cumuli & sun, less wind after 11 am, hot & sunny, light clouds, & gentle air. Breeze from SE, after 5 pm; cool, & hazy Evening.	62	*4♀	
W. 30.	-25 -24	W <sub>2</sub> . W <sub>4</sub> . W <sub>1</sub> .	51½ 66 72½		Red sun-rise, bright morn'g; and chiefly so all day, & hot but a blustering wind, and many clouds; wind less from 2 pm, bright Evening, and almost a calm.	63	cherries & currants ripe.	
12096			109.5	142.5	Mean Temp 2 days 63°.		Rain - 1/16	

## Results for June 1858.

Barom <sup>t</sup>	Highest on 23 <sup>rd</sup> 30.50. Lowest on 17 <sup>th</sup> 29.92. Range — 0.58 Mean of Month 30.21.	Thermom <sup>t</sup>	Highest on 16 <sup>th</sup> 92°. Lowest on 28 <sup>th</sup> 47.5 Range — 44.5 Mean daily range 20.38 Mean of Month 66.95.
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Rain 1.16 Inch. Fine days 25. Prevailing wind SE.

This was a very fine and extremely hot month, and excepting in 1846, no June so hot on record! Some labourers died under its effects, during hay-making, and great languor, lassitude, & loss of appetite prevailed among people generally. — Wheat & Barley crops promise well, but many of the bean-blossoms fall off, prematurely, scalded by the heat! Cherries & currants ripe at the close of the Month. — The Thermom<sup>t</sup> at Greenwich was 94½° on 16<sup>th</sup> of this Month! —

# JULY 1858.

July.	Baro- meter	Wind	Thermom <sup>t</sup> lowest 9 am	highest	Weather, &c.	Thermom <sup>t</sup> 8 pm.	notes	Rain.
Th. 1.	30.18 -15	W <sub>3</sub> . WNW <sub>2</sub> . WNW <sub>2</sub> . NW <sub>2</sub> .	53 61 65½		Cloudy & warm breeze, but cooler as day opened, brighter after 1 pm and again warm, wind rather less, & small cumuli. Evening more clouded, lowering, and a little rain 8 pm. — Dark in the North and East. —	61	Little flying shower 8 pm.	01
F. 2.	-12 -18	W <sub>2</sub> . NNW <sub>4</sub> . NW <sub>3</sub> .	49 58 64		Cloudy, followed by rain at 9 am; showery, but short flying showers, dark raggy clouds, and sun at times: very cloudy & cool Evening, & light rain at times. most of the night.	54		14
S. 3.	-23 -30	NW <sub>2</sub> . N <sub>3</sub> . N <sub>3</sub> . NW <sub>2</sub> .	52½ 58 59		Cloudy, gentle rain early & at times afterwards during the forenoon, finer afternoon, but chiefly cloudy, and very cool wind. Less wind Evening and night, and still cloudy. —	55		10
Su. 4.	-35 -08	NW <sub>1</sub> . W <sub>1</sub> . WSW <sub>2</sub> . SW <sub>1</sub> .	52½ 60 69		Clouds & sun, with gentle wind, much warmer from 11 am, more electric, & chiefly sun, but hazy. Hazeiness much increased from the West all the Evening, and rain at 7 pm, and at times all night, & some squalls of wind.	62	moon last 2 <sup>nd</sup> 6.43 am. Barom <sup>t</sup> fell fast all the pm.	12
M. 5.	29.87 -85	SW <sub>2</sub> . W <sub>2</sub> . W <sub>2</sub> . W <sub>0</sub> .	53 62 64		Rain at times hard till 7 am; then bright with stormy clouds; darker clouds at noon, close afternoon, but fine & little sun. Brighter Evening, but very electric, & rocky clouds, & hazy night.	60	a blessed rain, upon the arid plain.	25
Tu. 6.	-81 -78	SW <sub>1</sub> . W <sub>2</sub> . SW <sub>1</sub> . SW <sub>½</sub> .	53½ 60 64		Hazy, rocky & very electric; with showers all the forenoon, more fair & sun at times, afternoon, but much cloud, & very rocky. — Evening close, & partly cloudy, but a cool night, and clearer. —	58	□♂♀ distant Thunder & great showers passing southerly.	07
W. 7.	-75 -83	WNW <sub>1</sub> . Var. o. SE <sub>1</sub> . SW <sub>1</sub> .	47 62 66		Cool morn'g, yet very electric & rocky clouds, showers with thunder at a little distance from 11 am, and some rain here, at 1½ pm, and another shower at 5, and a very hazy evening and night with scarcely any wind. —	58	Much Thunder in S. & SE. all the middle of the day.	08 06
42048			360.5	451.5	Mean Temp 58°.		Rain cal <sup>d</sup> over.	0.83



JULY 1858.

July.	Baro. meter.	Wind.	Thermometric lowest 9 highest.	Weather &c.	Thermometric 8 pm.	Notes.	Rain. 0'83.
Th. 8.	29.84	SW <sub>0</sub> . 48 SE <sub>1</sub> . SE <sub>2</sub> . -92 Var. $\frac{1}{2}$ .	62 66	Close & rather foggy morn'g; bright from 8½ am till near 11, then a shower & more to the S, with loud thunder, another storm from SE, 2 pm, & much lightning & thunder. Fine and sunny Evng. - Mist on the valleys - 9 pm. -	56	Sharp Thunder. Shower 4 miles S. at 11 am. and one here at 2 pm.	23
F. 9.	-98	NE <sub>1</sub> . 50 NE <sub>2</sub> . N <sub>2</sub> . 30.00.	61 63	Bright with scuds flying, fine till 1 pm, afterwards overcast & gentle rain, more or less, all the afternoon, and till 6 pm: finer till 8 - then a gain rain, and continued. -	56	Δ ♂ ♀ Raining all pm to 6 pm. and during night very heavy.	21
S. 10.	29.87	NE <sub>4</sub> . 54 NE <sub>1</sub> . NE <sub>2</sub> . 30.08	62 63	Hard rain till 5 am, then blowing brisk, and fair, with sun, & cumuli, fine & less wind, till 3 pm. then rainy till near 7 pm, afterwards cleared up. Warm evng, light arcs of cloud. -	59	Δ ♂ ♂ New Moon 9. 24 pm.	90 13
Su. 11.	-18	NW <sub>2</sub> . 56½ NW <sub>3</sub> . NW <sub>1</sub> . -23	66 71	Bright with light clouds, and warm; continued very bright, with brisk wind, but very hot sun, sun set red & clearly defined in a grey haze. - Clear & calm night. -	62	very pleasant breeze & warm sun. -	
M. 12.	-24	NW <sub>1</sub> . 51 W <sub>2</sub> . SW <sub>2</sub> . -20 SW <sub>0</sub> .	67 77	Clear morn'g; very bright and hot day, but more cloudy & electric after 2 pm, sultry, and very close at 4 pm, and all the Evng. More electric, & heavy shower at 9½ pm. -	71	peculiar closeness of atmosphere. Birds very musical.	28
Tu. 13.	-18	W <sub>2</sub> . 62 SW <sub>2</sub> . SW <sub>3</sub> . -14 SW <sub>2</sub> .	65 73	Cloudy, little rain at 7 am, lowering till after 11, then hot, and chiefly sun, with flying clouds and brisk wind. Sultry Evng, & mottled sky, with less wind. Close night. -	69	Birds continue very musical.	
W. 14.	-13	SW <sub>3</sub> . 58½ SW <sub>2</sub> . S <sub>2</sub> . -11 SE <sub>2</sub> . 1. & 0.	67 77½	Light clouds & sun, with a brisk wind; dashed lines above the lower clouds, and very hot & sultry. Bright evng, with electric cumuli, & nearly a calm. Fine night, chiefly clear, & very warm. -	71	very close state of air. caught a young Cuckoo at 3 pm - as it alighted near me	
42170		3804905		Mean Temp 62°/78.) Rain cal up - 2.58			

JULY 1858.

July.	Baro- meter.	Wind.	Thermometer lowest 9 a.m.	Thermometer highest 5 p.m.	Weather, &c.	Thermometer 8 p.m.	Notes.	Rain.
Th. 15.	30.05 -02	SE <sub>2</sub> SE <sub>3</sub> SSE <sub>1</sub>	63 80 88½		Bright, and very hot morning, the heat rapidly increasing, and very bright with a parching breeze: a few electric dotted clouds. - more electric at 7 p.m., much distant lightning in W. & SW. - The night oppressively hot. -	75	5½ 11 a.m. 86° noon 88° 1½ 2 p.m. 88½° 5 p.m. - 84°	2.58
F. 16.	-01 -11	Var. o. W <sub>2</sub> . W <sub>2</sub> . W <sub>o</sub> .	66½ 82 85		Extreme sultry air, distant Thunder clouds in West. Very bright and excessively hot till 10. Then a breeze of clouds, close & thunder, very heavy rain, lightning & loud thunder. 2 to 3 p.m.; passed from SE to NW, raining & Thunder.	70	8 a.m. 77° 10 a.m. 85° breezy, and thunder after 10 a.m. - Severe storm 2 to 3 p.m. -	80 10
S. 17.	-13 -20	W <sub>2</sub> . WNW, Var. o. SE <sub>1</sub> .	64 65 74		Overcast, blue fog, & little wet, but became bright at noon, and very hot with rocky cumuli: very sunny & hot afternoon: - and sultry, hazy & electric Evening. The night foggy & close. -	69	moon 1 <sup>st</sup> Dr. 8.39 p.m. Very sultry Fog came on from SE, 9 p.m.	
Su. 18.	-23 -27	SE <sub>1</sub> . W <sub>2</sub> . Var. 1. S <sub>1</sub> . SSE <sub>1</sub> .	57 68 73½		Fog early, bright & electric from 5 a.m. till 7 a.m., dark clouds, and a heavy shower at 9¼ a.m.; lingering showers till noon: but bright, & very hot afternoon, with rocky cumuli. Evening bright & a calm and warm night.	69	A dark under- laid bed of cloud from SSW at 9 a.m. Thunder in South 10 a.m.	28
M. 19.	-31 -26	Var. o. NE <sub>1</sub> . NW <sub>1</sub> . Var. o.	57 67 72		A train of jagged electric clouds over all the West, at 6 a.m.: much cloud till noon, & heavy thunder clouds west & NW till after 2 p.m., then bright & hot. Even'g bright, and calm, but rocky on horizon after sunset. -	67	The clouds all in oppo- sition to the lower current. & violent thun- der in West 12 p.m.	
Tu. 20.	-20 -01	SE <sub>2</sub> . SE <sub>2</sub> . SE <sub>4</sub> .	59 69 78		Fog early, more wind clouds low & foggy till 8, then bright, and very hot, a few curdy electric dots on the clear blue, & a gust breeze. Many electric clouds in the Even'g, windy, & rain during the night. -	65	The Thrush and other Birds, very tuneful for many days & late. -	
W. 21.	29.87 30.01	S <sub>1</sub> . Var. o. W <sub>2</sub> . W <sub>1</sub> .	61 62 63		Rainy more or less, and over- cast, gloomy & lowering till 2½ p.m., then more fair, and a little sun, with lighter clouds; Even'g bright, and a very fine night, & much mist on the valleys. -	61	* 4½	40
42168		4275534		Mean Temp 68.642!) Rain ear over 416				



# JULY 1858.

July.	Baro. meter.	Wind.	Thermometer lowest 9 highest am pm.	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 4:16
Th. 22.	30.09 -09	SW <sub>2</sub> SW <sub>2</sub> S <sub>2</sub> S <sub>2</sub>	50 67 73	Bright with cumuli clouds, fresh breeze, continued bright and hot till 3 <sup>30</sup> pm. after- wards closer, hazy and e- lectric, and some rain dur- ing night. —	64		
F. 23.	-04 -07	W <sub>2</sub> W <sub>2</sub> SW <sub>2</sub>	60 66 75	Rain early, but fine after rise, & became bright at 9 <sup>30</sup> am. hot and sunny day, with rocky clouds. Even <sup>g</sup> , hazy, close & very sultry, and night the same. —	69	very elec- tric in the even <sup>g</sup> .	19
S. 24.	-00 29.78	SE <sub>1</sub> SE <sub>1</sub> SSE <sub>2</sub>	59 67 75	Very close, with light clouds, and sun; very hot & chiefly bright in the day, with rocky clouds. More cloudy after 2 pm, lowering from 3 pm, and little rain during even <sup>g</sup> , and a blowing night. —	66	Heavy gale during the night.	04
Su. 25.	44 -82	SW <sub>6</sub> WSW <sub>7</sub> W <sub>6</sub> W <sub>3</sub>	58 62 68	Heavy gale from 2 am, beating storm of rain at 8, continued strong gusts from WSW, all the forenoon, & much cloud; but brighter afternoon & wind ra- ther less, & evening fair, & much calmer. —	63	60h Trees thrown down, & others broken by the gale. — Full moon midnight.	09
M. 26.	30.00 -11	W <sub>3</sub> W <sub>2</sub> SW <sub>2</sub> Var. s.	55 67 71	Bright morn <sup>g</sup> , & brisk wind, fine & pleasant day, less wind, & chiefly bright, with cumuli clouds. Even <sup>g</sup> nearly calm, and bright, with electric cu- muli, but a cooler night. —	63	*0h Harvest commenced in most districts.	
Tu. 27.	-06 29.94	ESE <sub>1</sub> SE <sub>2</sub> SE <sub>2</sub>	49 68 72	Thin fog early & no wind; be- came bright & hot, with very electric towering cumuli, and curdled & hazy above them. Very cloudy from 4 pm. all the Evening and night, & a very little rain. —	62	08h	
W. 28.	-98 30.15	NE <sub>2</sub> NE <sub>2</sub> N <sub>1</sub>	58 <sup>1</sup> <sub>2</sub> 63 67	Cloudy, but soon clearer, sun at times, mixed clouds, and brisk wind. Some rocky cumuli in trains con- nected at the base. — Bright & cool even <sup>g</sup> . —	58		
419.57		389.5501		Mean Temp 63.60. — Rain cal. up - 4.48			

# JULY 1858.

July.	Baro. meter.	Wind.	Thermometer lowest 9 highest am pm.	Weather &c.	Thermom. 8 pm.	Notes.	Rain. 4:48
Th. 29.	30.16 -18	N <sub>2</sub> NW <sub>2</sub> NW <sub>1</sub> NW <sub>2</sub>	48 64 68	Bright with cumuli clouds, and some cirri above them, very fine, & brisk wind. Very elec- tric sheets of mixed cloud all the even <sup>g</sup> , but a bright sun-set, — and cool night. —	58	04h much more electric after 8 pm. — sign of more heat.	
F. 30.	-21 -25	NW <sub>1</sub> NW <sub>1</sub> SE <sub>1</sub>	48 64 74	Bright with light clouds; much warmer after 9 am, con- tinued bright, with small cu- muli. Very electric small clouds all the even <sup>g</sup> , and the wind veered. —	61	wind re- turned to SE. at 5 pm. —	
S. 31.	-27 -37	W <sub>1</sub> NNE <sub>2</sub> SE <sub>1</sub>	48 <sup>1</sup> <sub>2</sub> 67 73 <sup>1</sup> <sub>2</sub>	Clear & dewy morn <sup>g</sup> ; fine and pleasant day, often bright & hot sun, but many clouds. wind veering much, but a close and nearly calm even <sup>g</sup> . Orange sunsch. —	65		
181.44		144.5 21.55		Mean Temp 3 days 60.0. — Total rain 4.48			

## Results, July 1858.

Barom <sup>t</sup>	Highest on 31 <sup>st</sup> - 30.37	Thermom <sup>t</sup>	Highest on 15 <sup>th</sup> - 88.5
	Lowest on 25 <sup>th</sup> 29.44		Lowest on 7 <sup>e</sup> 47
	Range — 0.93		Range — 41.5
	Mean of Month 30.068		Mean Daily range 15.82
			Mean of Month 62.81.

Rain 4.48 Inches. Fine days 16. Prevailing winds SE. W. & SW.

This was a very seasonable and good month, with very fruit-  
ful rains at times, and the middle of the month, from the  
11<sup>th</sup> to 24<sup>th</sup> remarkably hot for the most part, and the corn  
became very early ripe, so that Harvest was generally begun  
about the 26<sup>th</sup>. The Wheat a full average, but in some parts  
not equal to last year, and other produce a fair yield, the  
barley inferior to last year, but the peas, & beans sadly failed.  
Public health better than in June.



# August 1858.

August	Baro. meter	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermometric 8 pm.	Notes.	Rain.
Su. 1.	30.42	NE <sub>1</sub> NE <sub>2</sub> NE <sub>2</sub> E <sub>1</sub>	52 67 74	Clear, very bright morn, and hot & clear till about 1 pm afterwards a cooler wind, & thin clouds. Very cool evening and night, clear yellow sunset, and the night chiefly clear.	61		
M. 2.	33	E <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	47 65 75	Heavy dew, & clear, continued very bright, and hot sun, with a fresh breeze, and some small but light clouds. Sun set in a dusky sheet of cirrus cloud.	61	moon last 21. 2. 31 pm.	
Tu. 3.	34	S <sub>1</sub> SSE <sub>2</sub> SSE <sub>4</sub> SE <sub>1</sub>	52 70 81	Close, with mixed electric clouds, became bright after 8, and very hot, the heat very much increased all the forenoon, electric clouds at 4 pm, & squalls of wind. Fine evening, with small electric clouds.	68	rapid rise of temperature. distant showers in P.M.	
W. 4.	30.10	W <sub>1</sub> SW <sub>2.1</sub> SW <sub>2</sub> SW <sub>1</sub>	56 72 78	Very bright, and very hot all the morn, more heavy after 12, close and sultry, with electric clouds, & sun. Blue haze and very close evening. Night cloudy & sultry, with gusty wind.	70		
Th. 5.	35	SW <sub>3</sub> W <sub>3</sub> W <sub>1</sub>	62 71 79	Very sultry, lowering & little rain 8 am, flying mistle & soon cleared off to sun, & light clouds, bright, & very hot day, with gusts of wind & cumuli clouds. Evening calm & a few rocky clouds.	67	The wind very unsteady in its force breezes & calm.	
F. 6.	32	W <sub>2</sub> NW <sub>2</sub> NW <sub>1</sub>	54 67 70	Bright with cumuli clouds, and grey haze about the sky, some dark clouds, but very pleasant. Calm evening, and dark rocky clouds.	63		
S. 7.	30	NW <sub>0</sub> E <sub>1</sub> E <sub>1</sub> o.	50 69 77	Clear, very bright till noon, and very hot, but much more cloud in the afternoon, spreading cumuli & less sun, again clear at 4 pm, and very bright sunset.	63	The clouds moving against the lower current.	
42340		3735534		Mean Temp 64.82. } Rain - 0.00			

# August 1858.

August	Baro. meter	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermometric 8 pm.	Notes.	Rain.
Su. 8.	30.53	E <sub>1</sub> E <sub>1</sub> E <sub>2</sub> E <sub>1</sub>	47 70 77	Quite clear & heavy dew, cumuli followed at 7 1/2 am, but very hot, and chiefly very bright all the day alike. Sun set in full lustre, and brilliant orange tint. - Calm & bright stars, at 11 & 12 pm.	62	* 24	
M. 9.	34	E <sub>1</sub> NE <sub>1</sub> NE <sub>2</sub> E <sub>1</sub>	47 68 78	Bright, and hot, with fresh breeze, and a few small clouds, became quite clear & no cloud visible at 10 am, & till after 12 heat greater - but some electric clouds during afternoon. - Red & rocky in the East at 5 set. Cloudy & hot night.	66	Very moon 4.54 am. Electric clouds in the afternoon.	
Tu. 10.	23	E <sub>1</sub> NE <sub>2</sub> NE <sub>2</sub> NE <sub>1</sub>	61 68 8 1/2	Very sultry, hazy & dappled, electric & mixed clouds. became bright, and very hot after 11 am, so continued with electric cumuli & lines of cirro-stratus across them. Vivid lightning in P.M., 8 & 9 pm.	69	very sultry, and electric. Vivid lightning in P.M.	
W. 11.	17	NE <sub>1</sub> E <sub>2</sub> SE <sub>1</sub> SE <sub>2</sub>	63 1/2 73 83	Dappled & very red & rise: very electric & dark in South all the morning, and most of the day, but mostly bright here, and extremely hot. In the evening distant rocky hills about horizon W. to N. - Cirro & haze about, & fine night.	71	distant thunder in South all the morning	
Th. 12.	17	Var. o. SE <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	58 79 90	Clear above, fog below at 5 am, very bright morn, continued so, and extremely hot; from 11 am most excessive! Sultry electric cumuli after 12, and distant storms NW. Shower here 7 pm. - Very sultry night, and much lightning.	75	* 3 ♀ □ 4 ♀ The 11 am at 87°. at 12. 90°. 5 pm 84°.	04
F. 13.	15	SSE <sub>1</sub> S. SW <sub>1</sub> SW <sub>0</sub>	64 75 83 1/2	A thunder storm at 3 am, bright and very hot morn, very electric cumuli bands of cloud. Very bright afternoon, & extremely hot. Calm and hazy evening, with electric appearances.	72	blue haze all the P.M.	19
S. 14.	12	W <sub>1</sub> SE <sub>1</sub> Var. 1. SE <sub>2</sub>	59 65 74	Very hazy morn, close, and some dusky clouds, increased haziness all the morn, little wetness near 12-1, sunny & very hot till 2 pm. then dark & showery, with distant thunder. - Evening and night cloudy, distant lightning.	66	Thunder distant all day. clouds in all currents.	18
42328		3995567		Mean Temp 69°. } Rain cal over 0.41			



# August 1858.

Aug.	Baro. meter	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8pm.	Notes.	Rain 0.41
Su. 15.	30.09	W <sub>2</sub> .	58	Cloudy & lowering, trifling rain at times, clearer after 11, and some sun; warm & sunny afternoon, & evening with electric cumuli.			
	-18	W <sub>2</sub> .	61				
		W <sub>1</sub> .	70	Fine night, with some clouds.	65		
M. 16.	-22	SW <sub>2</sub> .	56	Clouds & sun, very fine, and the afternoon hot, and most-ly bright, with many cumuli & electric sky.		* h ♀ moon 1 <sup>st</sup> 2 <sup>nd</sup> 42 past 11 a.m.	
	-13	S <sub>2</sub> .	66	Evening hazy, with a stormy looking sky.	66		
		SW <sub>1</sub> .	74				
Tu. 17.	-01	SE <sub>1</sub> .	56	Bright morn, but fog below, & streaks of haze in zenith.		Th. 11 am 81° 1 1/2 pm 84°	
		SE <sub>2</sub> .	76	Became extremely hot after 8, wind gusty, & chiefly very bright.		Heavy rain at 10 pm. rocks very slippery.	
	29.92	SE <sub>2</sub> .	84	till near 3 pm. afterwards hazy, & dark electric clouds. Sultry night, & nearly calm.	72		
W. 18.	-89	SE <sub>2</sub> .	62	Very sultry & calm, with bands of mottled cloud from SE to NW.		Distant thunder, 3 pm. & all the evening. severe thunder storm till mid-night.	01
		SE <sub>1</sub> .	71	thick and hazy with very little rain at 11 am; again bright & very hot from 2 pm. Threatening evening, dark in south with thunder.	71		64
	-82	SE <sub>2</sub> .	78	severe thunder storms from 9 till 12.			
Th. 19.	-83	SE <sub>1</sub> .	62	Close & electric, rather lowering till 10, then bright & very hot with rocky clouds; some dense & electric ones, and much blue haze after 2 pm. Calm and sultry evening, air abundantly and very close night.	70	8 3/4 H	
	-85	S <sub>2</sub> .	68				
		SW <sub>2</sub> .	76				
		SW <sub>0</sub> .	70				
F. 20.	-91	W <sub>2</sub> .	62	Thick blue haze & overcast morn- ing, followed by light rain from 9 am, & much cooler than in the morn. Hard rain at 11, and till 4 pm; then fine, but cloudy more or less.	56	change to cooler air at 10 am. and much rain till 4 pm.	96
	30.00	NW <sub>3</sub> .	65				
		NW <sub>2</sub> .	65				
		W <sub>2</sub> .	56				
S. 21.	29.93	WNW <sub>3</sub> .	55	Cloudy, very lowering, and little rain, increasing to hard rain from 10 am till about noon, then gentle till after 4, fine and sultry eve- ning, clearing in the East, & wind veering to East.	64	change to warmer again, af- ter 1 pm.	34
	-80	NW <sub>3</sub> .	57				06
		N <sub>2</sub> .	64				
		NE <sub>2</sub> .	64				
419.58		412.5 512		Mean Temp 66° 03. Rain cald up 2 1/4 2			

# August 1858.

Aug.	Baro. meter	Wind.	Thermometer lowest 9 highest	Weather, &c.	Thermom. 8pm.	Notes.	Rain. 2.42
Su. 22.	30.06	SE <sub>2</sub> .	55	Bright morn, with cumuli clouds, & hot, very fine and pleasant day. Very brilliant evening. Sun set in cirri collapsed and of a golden tint. Clear & dewy night.	68		
	-15	SE <sub>2</sub> .	68		72		
		E <sub>1/2</sub> .	72				
M. 23.	-20	E <sub>1</sub> .	51	Bright morn, & much dew; a hot and sunny day, with rocky & electric clouds; Evening very bright, sun set early, but in S, & ESE, rocky on horizon. Some fog during night.	70	Hooked very playful. Kamssettled at on 17 <sup>th</sup>	
	-25	ENE <sub>2</sub> .	74		74		
		NE <sub>1</sub> .	74				
Tu. 24.	-29	NE <sub>1</sub> .	57	Fog till 7 am, then bright and hot, with cumuli clouds; the evening very hazy & electric with mixed clouds, and the wind to SE, after 6 pm. Close night, & more electric.	67	Δ H δ Full moon 12 m past 2 pm. rocks act as before.	
	-24	NW <sub>1</sub> .	67		75		
		W <sub>1</sub> .	75				
		SE <sub>1</sub> .	68				
W. 25.	-16	W <sub>1</sub> .	60	Overcast & rain at times from 4 am, till 8 am, afterwards fair, with sun, and much cloud, of a stormy appearance, with a cooler wind after 1 pm. Rocky about the setting sun.	64	Distant thunder very early a.m.	18
	-18	NW <sub>1</sub> .	64		68		
		NW <sub>3</sub> .	68				
		NW <sub>2</sub> .	56				
Th. 26.	-20	NW <sub>2</sub> .	52	Flying clouds & sun, with a cool breeze: more electric in upper stratum after 3 pm, some light dappled sheets from W. and cloudy evening, with a breeze all night.	59		
	-15	W <sub>2</sub> .	63		63		
F. 27.	-04	W <sub>3</sub> .	55	Cloudy, more wind, and cool breezes, but brighter after 1 pm, & less wind. Very rocky & electric clouds. Hazy show- er, after 6 pm, and squally looking sky.	60	□ O H Harvest generally ended.	
	29.98	WNW <sub>2</sub> .	60		65		
		NW <sub>2</sub> .	56				
		1.	56				
S. 28.	-88	NW <sub>2</sub> .	50	Clouds & sun, with a very cool breeze, more cloudy after 4 pm, and the evening cloudy, lightning in N, and the clouds lying in bars of black & white diverging up from NW to SE.	59	Lightning in North 8 1/2 pm.	
	-87	NW <sub>2</sub> .	65		65		
		W <sub>1</sub> .	55				
421.65		380.5 483.5		Mean Temp 61° 7/4. Rain cald over 2 7/1			



# August 1858.

Aug.	Barom. etc.	Wind.	Thermometer lowest 9 a.m. highest	Thermom. 8 p.m.	Notes.	Rain. 2.71
Su. 29.	29.92 -84	W <sub>1</sub> SW <sub>2</sub> SW <sub>1</sub> SE <sub>1</sub>	48 63 68		Bright, with light clouds, very fine & warm till 1 p.m., then hazy & some rain, continu- ed thick & rainy at times, all the Evening, and a very cloudy & lowering sky. -	Δ 4 ♀ 15 07
M. 30.	-78 85	SW <sub>2</sub> W <sub>3</sub> W <sub>2</sub>	53 60 67		Dark, & dripping morn'g, till after 10. then more fair, and bright sun from 11 a.m. all the afternoon, rocky clouds & a drying breeze. Night chiefly clear, & colder. -	much dis- turb light- ning SW at 9 p.m. 59 05
Tu. 31.	-86 -85	SW <sub>2</sub> SW <sub>2</sub> SW <sub>2</sub>	46 59 65		Bright & cool morn'g, a stormy looking sky in the day, but mostly sun. - Flying shower at noon, & 4 p.m., distant thun- der. - Lightning in the East at 8 & 9 p.m. -	MOON last Dr. 8. 16 p.m. vivid light- ning East 8 1/2 p.m. 57 06
17970			1475 200		Mean Temp 3 days 57° 916)	Total rain 3.04

## Results, August 1858.

Barom.	Highest on 7 <sup>th</sup> 30.53 Lowest on 30 <sup>th</sup> 29.78 Range 0.75 Mean of Month 30.11	Thermom.	Highest on 12 <sup>th</sup> 90° Lowest on 31 <sup>st</sup> 46 1/2 Range 43 1/2 Mean daily range 18.8 Mean of Month 64° 67
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Rain 3.04 Inches, Fine days 22. Prevailing winds S.E. & N.W.

This was a seasonable and good month, and on the whole  
favourable for Harvest, which was concluded about  
the 25<sup>th</sup> day. The heat was great at times, and extreme-  
ly so in the second week. The mean temperature was  
for the whole month, nearly 3° above the average,  
but much below the same month's mean of 1857,  
to which refer. —

# September 1858.

Sept.	Baro. meter	Wind.	Thermometer lowest 9 a.m. highest	Thermom. 8 p.m.	Notes.	Rain.
W. 1.	29.85 -83	SW <sub>2</sub> SW <sub>3</sub> S <sub>1</sub> Var. 0.	51 65 68		Fair and warm, with sun wind, & flying clouds, very fine till 1 1/2 p.m., afterwards close, cloudy, little misting at times. Shower at 5 p.m. Cloudy & warm Evens. -	A rocky bank of cloud from NW, after sunset. 03
Th. 2.	30.03 29.99	SW <sub>0</sub> SW <sub>2</sub> SW <sub>2</sub> S <sub>3</sub>	51 63 69		Hazy & calm morn'g, became bright & very warm, but more wind, and some blue haze at times; cloudy evening, warm, & a soft breeze. very sultry all night, & 62	
F. 3.	-87 30.02	S <sub>3</sub> SW <sub>4</sub> SW <sub>2</sub> S <sub>1</sub>	61 70 76		Lowering & very sultry, but bright after 8, and very hot, many flying clouds, & trifling rain at 11; very hot afternoon & chiefly sun. Cloudy evens rainy from 9 to 11 p.m. -	very Elec- tric and mixed clouds in groups. very hot & close all night. 72
S. 4.	29.95 -92	SW <sub>4</sub> SW <sub>3</sub> SW <sub>2</sub> S <sub>2</sub>	63 68 72		Very sultry, blowing, & cloudy morn'g; clearer after 8, fine hot, & breezy with flying clouds. Close evening, fly- ing rain at 8 & 9 p.m. - finer night. -	67 08
Su. 5.	-95 -87	SW <sub>2</sub> SW <sub>1</sub> Var. 0. W <sub>1</sub>	58 61 69		Hazy & calm morn'g; conti- nued hazy till noon, after- wards bright, with dappled bands of electric cloud. Black in S, with thunder from 6 p.m. very severe, but passed to the East. Clear night. -	□ 0 ♂ very black very dense with thunder & violent lightning thunder in S, from near us in S. & S.E. at 6 p.m. at 6 p.m.
M. 6.	30.01 29.96	SW <sub>1</sub> SW <sub>2</sub> SSW <sub>2</sub>	49 60 65		Bright but cooler, cirri clouds, & slight haze, with many electric clouds in the af- ternoon. - Cloudy evening, rain & distant Thunder after midnight. -	60
Tu. 7.	-91 -98	SW <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	54 61 65		Rain at 4 & 5 a.m., and distant Thunder. - Fine day with some sun, but many dense clouds, and very electric. Evening hazy and still. -	new moon 2. 14 p.m. 60
41974			387 484		Mean Temp 62° 214)	Rain cald over 0.43



# September 1858.

Sept.	Barom. etc.	Wind.	Thermometer lowest. 9 highest.	Thermomd 8 pm.	Notes.	Rain. 0.43
W. 8.	29.96 30.12	SW <sub>1</sub> W <sub>2</sub> W <sub>1</sub>	54 63 72		dowering & misting morn- ing; but from 11 am, fair & hot, with electric rocky clouds; Even <sup>g</sup> clear, but rather hazy. —	06
Th. 9.	-17 -12	W <sub>2</sub> S <sub>2</sub> SW <sub>2</sub>	52 64 73		Light electric clouds, dappled sky, & bright sun, hot after- noon, with a breeze, and dappled clouds. Sultry, & cloudy Even <sup>g</sup> , — & night.	Strong blue haze at 1 pm. very sul- try night.
F. 10.	-13 -13	SW <sub>2</sub> SW <sub>2</sub> SW <sub>2</sub>	61 68 73½		very sultry morn <sup>g</sup> , became bright, with flying clouds, & very hot; mixed clouds & electric even <sup>g</sup> , but fair & very sultry all night. less wind after 12 pm. —	65
S. 11.	-25 -32	SW <sub>1</sub> SW <sub>1</sub> S <sub>0</sub>	61½ 67 73		Bright, with light clouds, but closer after 8, more clouds, yet very hot, and a blue haze, with powerful sun at times. Calm Even <sup>g</sup> & clearer, but very sultry. —	The Comet seen NW Even <sup>g</sup> , as above.
Su. 12.	-35 -32	S <sub>0</sub> SSE <sub>2</sub> SE <sub>2</sub> SE <sub>1</sub>	56 71 82		Fog till after 7, then very bright, & extremely hot, gen- tle wind & no cloud: even <sup>g</sup> very brilliant, and golden sunset. The Comet brighter. Fog during the night. —	11 am 79° noon 81½° 1 pm 82° 5 pm 76°
M. 13.	-28 -25	SE <sub>0</sub> E <sub>1</sub> E <sub>1</sub> E <sub>0</sub>	51 72 8½		Fog early, clear after 7, very bright & extremely hot, no cloud hid the sun, but at sun set, electric clouds on west horizon. The Comet more brilliant, sunny Even- ing. —	□○4 Th 10 am 77° noon 81° 1 pm 81½° 5 pm 77°
Tu. 14.	-30 -35	E <sub>0</sub> NE <sub>2</sub> NE <sub>1</sub>	5½ 67 71		Fog early, & some electric clouds, bright and hot from 7 till 1 pm, afterwards clou- dy, and the Even <sup>g</sup> overcast, and little misting at times: very close all the night. —	became very Elec- tric from North at 11 am.
42305		393 526		Mean Temp 65° 64.2 Rain cald up 0.49		

# September 1858.

Sept.	Baro- meter	Wind.	Thermometer lowest. 9 highest.	Thermomd 8 pm.	Notes.	Rain. 0.49
W. 15.	30.34 -32	E <sub>0</sub> E <sub>½</sub> E <sub>0</sub>	60 63 66		Very close & calm, grey clouded sky, and no wind, the same all day alike, and a very soft and pleasant Even <sup>g</sup> . — and night. —	□ h q □ 4 q moon 1 <sup>st</sup> 2 <sup>nd</sup> 5.16 a.m.
Th. 16.	-27 -22	SE <sub>0</sub> SE <sub>1</sub> SE <sub>½</sub>	57 65 73		Electric & mixed clouds, with sun, and very hot, very bright afternoon, but tufts of cirri about, & in the west at sun- set. Night rather hazy. —	□ 8 q some me- teors from South.
F. 17.	-02 29.87	SE <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	54½ 70 73½		very hazy and electric, but very hot & sun chiefly bright till 11, then more hazy, and thick, with black & jaggy clouds. A little rain, but clearer after 8 pm, distant lightning. —	Lightning in S.E., at 8 & 9 pm.
S. 18.	30.01 -23	SW <sub>2</sub> WSW <sub>2</sub> W <sub>0</sub>	60 67 71		Clear except cirri, continued bright with cumuli clouds, more cloudy after 1 pm, less wind. Calm even <sup>g</sup> , electric clouds & red tints upon them. Clear night & colder after midnight. —	8 4 q Thunder- storm in west, 2 morn <sup>g</sup> .
Su. 19.	-30 -25	Var. E <sub>2</sub> E <sub>2</sub> NE <sub>2</sub>	45 60 69		Hazy with cirri, but bright at first, and chiefly bright, and warm till noon, afternoon very cloudy & electric, with rain from 3½ pm; till after 5 pm. Lightning & thunder at 8 & 9 pm.	The rain clouds came from the South. Thunder at 8 & 9 pm.
M. 20.	-27 -35	NE <sub>1</sub> NE <sub>2</sub> NE <sub>1</sub>	58 62 66		Overcast morn <sup>g</sup> ; fine day, & sun at times, but clou- dy more or less, and a fresh breeze. — Evening clearer, and a heavy dew all night. —	The Comet very bril- liant. — 8 pm, NW.
Tu. 21.	-39 -29	NE <sub>1</sub> E <sub>2</sub> E <sub>3</sub> E <sub>1</sub>	48½ 62 67		Bright with mixed clouds, and brisk wind, more elec- tric & the upper clouds in an opposite current from SW. — Sun set. in a screen of rosy dappled, and much electric cloud all the Even <sup>g</sup> .	The Comet splendid 3½ pm, in N.E. —
42313		383 4855		Mean Temp 62° 035. ) Rain cald over 0.71		



# September 1858.

Sept.	Baro- meter.	Wind.	Thermom. lowest 9 highest	Weather, &c.	Thermom. 8 pm.	Notes.	Rain 0.71
W. 22.	30.07 29.89	SE <sub>3</sub> SE <sub>3</sub> SE <sub>1</sub>	55 67 72	Bright with dappled sky, and brisk wind, very electric, and hot; dark clouds at 5 pm, and severe thunder storm at 7 pm, very vivid lightning, & rain. Fine night.	67	Severe storm 7 pm, loud thunder & lightning brilliant.	.21
Th. 23.	-86 -82	SSE <sub>2</sub> S <sub>4</sub> SW <sub>5</sub>	60 66 71½	Bright morn'g, electric & windy forenoon: very warm and show- ing day, rocky clouds & sun. Squally wind continued, but a fine night.	64	* ♀ ☿ Full moon 3. 20 am.	
F. 24.	30.12 -30	W <sub>4</sub> NW <sub>3</sub> NW <sub>1</sub>	58 62 67	Bright & windy, with rocky clouds, and cooler atmo- sphere. Clear evening, less wind, and heavy dew during the night.	56	The Comet more ex- tending, & brighter.	
S. 25.	-62 -57	W <sub>1</sub> WSW <sub>2</sub> SW <sub>1</sub>	45 58 68	Bright with light arcs of cloud in lines from SW, across zenith dappled at sun set, and very rosy tints on all the clouds. - Night chiefly clear.	59	The Comet splendid.	
Su. 26.	-55 -48	NW <sub>1</sub> W <sub>1</sub> W <sub>0</sub> Var. o.	49 60 63	Bright with lofty light clouds, more cloudy from 10½ am, very close and calm, some dark clouds, but very fine. - Even- ing also cloudy, but clearer at- ter 9 pm - & then fog came on.	61	Δ O H	
M. 27.	-42 -32	WSW <sub>1</sub> SW <sub>2</sub> SW <sub>1</sub> W <sub>1</sub>	48 60 64	Foggy morn'g, bright from 8 to 9 am, afterward grey clouds, and little more wind, but very fine. Clear evening, and but little wind. A large meteor from SE. at 8 pm.	57	The Comet increased much in splendor.	
Th. 28.	-32 -32	W <sub>1</sub> NW <sub>1</sub> Var. o. SE <sub>1</sub>	52 58 63	Overcast, very close morn- ing. - Cloudy more or less, & cooler comparatively after 9 am. Little sun, but mostly cloudy all day, and the Evening & night the same.	58		
423.66		367.4685		Mean Temp 59° 678. - Rain Cal up 0.92			

# September 1858.

Sept.	Baro- meter.	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermom. 8 pm.	Notes.	Rain 0.92
W. 29.	30.24 -02	SE <sub>2</sub> E <sub>2</sub> SE <sub>1</sub> o.	55½ 61 67	Cloudy, and warm morn'g, clearer after 11 am, more electric, and dense cumuli: more sun in the afternoon. Close & calm Evening, and much dappled. - Some rain during the night.	60	The Comet in parts hidden by clouds.	.06
Th. 30.	29.77 -73	SE <sub>1</sub> SSW <sub>3</sub> W <sub>4</sub> W <sub>3</sub>	57 64 68	Sultry, hazy, & electric, squalls of wind, heavy clouds, & flying shower or two, much heavier at a little distance. - Fine eve- ning, and the Comet very grand.	55	moon last 20. 1. 52 am. The Comet splendid at 8 pm.	.05
119.76		1125 135		Mean Temp 61° 872. Rain total - 1.03			

## Results for September, 1858.

Barom.	Highest on 25 <sup>th</sup> - 30.62	Thermom.	Highest on 12 <sup>th</sup> - 82°
	Lowest on 30 <sup>th</sup> - 29.73		Lowest on 25 <sup>th</sup> - 45°
	Range - 0.89		range - 37°
	Mean of Month 30.14		Mean daily range 15.21
		Mean of Month 62° 35	

Rain 1.03 Inch. - Fine days 22. Prevailing winds SW, SE, & E.

This was a very fine and hot summer month, like as it was last year, with very little rain, although heavy thunders storms raged on the 5<sup>th</sup> 18<sup>th</sup> & 22<sup>nd</sup>. - The glorious Comet delighted us with its increasing splendor all the latter part of the month, and its tail extended over 40 degrees of the sky, at the month's end! Public health good for the time of year! - This month was a continuation of another long summer of great heat, so that two seasons of unusual heat, were the consequence of the approach of this memorable Comet!



# October 1858.

Oct.	Baro- meter.	Wind.	Thermometer lowest 9 am highest	Thermometer 8pm.	Notes.	Rain.
F. 1.	30.11	W <sub>2</sub> WSW <sub>3</sub> WSW <sub>3</sub> SW <sub>2</sub>	43 54 62		Clear morn'g, & cool breeze, fine day, with flying clouds, and Sun, wind brisk. - Even'g hazy, & windy, the Comet much hidden by clouds or haze. - Less wind after 7 pm. -	57
S. 2.	-12 -13	SW <sub>3</sub> SW <sub>2</sub> W <sub>1</sub>	52 59 66		Cloudy, & windy, but clearer af- ter 10 am, bright at times, with many clouds, & very warm, very red clouds at sun-set. Hazy Evening, but clearer in the night. -	59
Su. 3.	-11 -11	SW <sub>3</sub> SW <sub>2</sub> SW <sub>1</sub>	52 61 69		Clear, very bright, but windy, chiefly Sun till noon, then grey clouds, but very hot, and the Evening close, cloudy, and sultry. -	62
M. 4.	-13 29.99	SW <sub>1</sub> S <sub>3</sub> SW <sub>3</sub> SW <sub>4</sub>	56 60 65		Grey clouds, and sun, very bright at times, & warm, but more electric & windy. A squall & rain at 10 pm, afterwards less wind, and fine night. -	61
Tu. 5.	-94 -90	SW <sub>2</sub> W <sub>5</sub> W <sub>1</sub>	47 54 61		Bright & windy morn'g, fair with clouds & sun, till 4, then a storm, afterwards again fair, & wind less. Another storm 6 1/2 pm, then a fine night, & distant light- ning in E, as last evening. -	55
W. 6.	30.11 -09	W <sub>2</sub> W <sub>2</sub> SW <sub>2</sub>	44 52 57		Bright with cumuli, and cooler wind. More cloudy and hazy in the Evening. - Stormy sky & distant light- ning in E, as last evening. -	49
Th. 7.	29.72 -43	SSE <sub>4</sub> S <sub>5</sub> SW <sub>6</sub> SW <sub>5</sub>	48 57 62		Squally wind, & lowering, but electric & warm; became more windy & rain at noon, afterwards fair, and some sun. but the Eve- ning overcast, and rain at times. -	56

419.98

34254425

Mean temp 56°.07. Rain cal up 0.60

# October 1858.

Oct.	Baro- meter.	Wind.	Thermom. lowest 9 am highest	Thermom. 8pm.	Notes.	Rain.
F. 8.	29.62 -97	WNW <sub>3</sub> W <sub>3</sub> W <sub>1</sub>	46 49 56		Clear & colder, bright day, with cumuli, and cool wind. Very clear Even'g, and cold. Distant lightning in the East, & some Meteors. -	46
S. 9.	30.04 -01	SW <sub>2</sub> SW <sub>1</sub> S <sub>3</sub>	36 1/2 48 58		Clear, & hoar frost early, con- tinued bright, & much warmer again till after 3, then more hazy & some rocky clouds. wind & clouds during the night, and inclined to storm. -	51
Su. 10.	29.81 -60	SSE <sub>4</sub> SSE <sub>4</sub> SW <sub>2</sub>	47 54 57		Hazy, cloudy, & windy, but warm, & some sun, more cloudy af- ter 12, and overcast and rain from 3 1/2 pm, all the Evening, and part of the night. -	53
M. 11.	-61 -83	SW <sub>1</sub> SW <sub>1</sub> SW <sub>1/2</sub>	45 1/2 51 54		Bright morn'g, after wet night. fine and sunny day, with cumuli clouds. Clear and cold evening. Night rather frosty. -	45
Tu. 12.	30.02 -16	WSW <sub>1</sub> W <sub>3</sub> W <sub>1</sub>	37 49 56		Little hoar frost, but soon much warmer, & bright sun, with light clouds, more ha- zy and much cloud after 3 pm, followed by wind & some rain at midnight. -	49
W. 13.	-71 -26	S <sub>3</sub> SW <sub>1</sub> SW <sub>1</sub> Var o.	47 57 61		Much rain till 7 am, & very warm; close all day, and at times lightly raining. very close and calm Eve- ning, foggy, and warm, - but stars seen upward, -	57
Th. 14.	-34 -32	S <sub>1</sub> SW <sub>2</sub> SW <sub>2</sub> S <sub>1</sub>	47 57 64		Fog & little wet early, very sultry day, somewhat fog- gy, and sun gleaming. - very warm afternoon, & at times bright. - The Even'g more cloudy, and very sultry all the night. -	61

419.70

3064065

Mean Temp 50°.89. Rain cal over 1.53



# October 1858.

Oct.	Baro. meter	Wind.	Thermom. lowest 9 highest	Thermom. 8 pm.	Notes.	Rain. 1.53
F. 15.	30.27	S 1. S 1. S 1/2	56 59 63		Very close and sultry morn., and the whole day the same, much cloud, and little sun. Evening clearer, but some fog during night.	Δ 0.4 moon 1 1/2 quartern 18m. Sept 1. a.m.
S. 16.	-02 29.91	SE 0. SE 2. SE 1.	50 56 64		Thick fog, till 10 a.m., then very bright & warm, and the evening clear moonlight, but small electric clouds westward. - Some fog during night.	57
Su. 17.	-94 30.01	S 2. SW 2. W 0.	51 56 59		Cloudy & some fog, but soon clearer, bright after 3 p.m., & very pleasant. - Evening calm, and bright moon & stars, but less clear after 11.	Comet no longer visible. 49
M. 18.	-00 29.89	NE 1. NE 1. NE 5.	45 50 51		Overcast & rain early, and till after 7 a.m.; cloudy & fine till 10 a.m., then rain again, & so continued more or less, and very windy evening, with harder rain. Stormy night.	Gale at NE - at Eve. 35
Tu. 19.	-85 -90	NE 5. E 4. E 2.	47 54 57		Day blowing & rainy more or less through the night past, overcast all day, & rain at times, but much warmer again. & less wind. Harder rain in the evening & night.	Δ 2.9 Ash leaves fall fast. 56
W. 20.	-87 -89	E 1. E 2. NE 2.	53 57 60		Overcast, damp, & warm, and a little rain early. Mostly cloudy but fine in the day, and some sun at times; fine evening, partly clear, and rather electric & dappled.	poplar & willow leaves falling. 53
Th. 21.	30.00 -09	NE 1. NE 2. NE 1/2.	51 56 60		Slightly curdled, & calm, but more wind after 8 a.m.; fair bright, and warm day, with light clouds, and gentle air. Fine moonlight evening, but fog came on after 9 p.m.	Δ 4.8 cherry leaves fall. 50
419.81				35.3	41.5	Mean Temp 54°.85. Rain cal up 2.73

# October 1858.

Oct.	Baro. meter	Wind.	Thermom. lowest 9 highest	Thermom. 8 pm.	Notes.	Rain. 2.73
F. 22.	30.18	NW 0. NE 2. NE 1.	45 53 58		Thick fog till near 9 a.m., then bright and warm, till 11 a.m., when large cumulostratus came on, & little short showers at 12 & 1, & 3. Even, fair and light clouds at times. Fog after 10 p.m.	Full moon 19m. past 3 p.m. 06
S. 23.	-23 -22	NE 0. E 2. E 1.	42 53 60		Fog till 9. then bright, very warm and pleasant day, the sun very powerful at 1 & 2 p.m. - Evening clear in part till after 8, then more cloudy.	maple leaves falling. 52
Su. 24.	-20 -25	Var. 0. NE 1. NE 2.	49 54 55		Cloudy, calm & mild morning, continued cloudy all day, & inclined to fog & mist, but fair. The evening also cloudy but not so damp. - Very close night.	Ash trees nearly leafless. 52
M. 25.	-36 -40	Var. 0. NE 1. NE 1. Var. 0.	51 54 56		Calm, warm, & cloudy morning, very close all the forenoon, clearer after 1 p.m., little sun, & more drying air. Evening calm & warm, with lofty clouds.	Hornbeam leaf very crisp. 52
Tu. 26.	-43 -40	NE 1. NE 1. NE 0.	43 53 58		Clear, very bright morning, and a warm, bright, and lovely day, with some light clouds, & gentle wind. - Very clear evening, mist on valleys.	Butch elm leaf falls. 49
W. 27.	-40 -29	NW 1. NW 1. SW 2.	43 46 55		Foggy morning, but became bright from 9 1/2 a.m., and so continued all day, but a rosy streaked arc of cloud at sun set from west, cloudy evening & more wind.	Elm leaves fall par- tially. 49
Th. 28.	-19 -10	SW 2. SW 2. N 3. NE 2.	48 50 53		Rain more or less from 2 a.m., and all day, overcast & thick, but the rain was light, and the wind veered at 3 p.m. to N, evening more fair, and much clearer.	Hornbeam leaf falls. 49
423.87				32.1	39.5	Mean Temp 51°.17. Rain cal over 2.97



# October 1858.

Oct.	Baro- meter	Wind.	Thermom. low. 9 high.	Thermom. 8 p.m.	Notes	Rain. 2.99
F. 29.	30.33 -30	N <sub>3</sub> N <sub>2</sub> NW <sub>2</sub>	40 44 48		Stormy clouds & sun, little wet at times, & wind breezy, but chiefly fair & sunny, although colder than of late. Cloudy evening but fine. -	moon last 2 <sup>nd</sup> 8.33 am. 03
S. 30.	-63 -67	NW <sub>2</sub> N <sub>1</sub> Var. o.	38 44 50		Rain, with grey clouds, and sun, very fine sunny day, and very little wind. Even cool & in part clear, but some hazy clouds.	43
Su. 31.	-67 -61	Var. o. W <sub>o</sub> W <sub>o</sub>	39 43 49		Hazy & ribbed clouds, but fair & some sun, and soon became very bright, & so continued to 3 <sup>30</sup> pm. Very hazy from 4 pm, chilly & frosty even, but cloudy after 7 pm.	84 <sup>2</sup> 43
18341			117 147		Mean Temp 3 days 44° -	Total rain - 3.00

## Results, October 1858.

Barom.	Highest on 31 <sup>st</sup> 30.67 Lowest on 7 <sup>th</sup> 29.43 Range 1.24 Mean of Month 30.109	Thermom.	Highest on 3 <sup>rd</sup> 69° Lowest on 9 <sup>th</sup> 36.5 Range 33.5 Mean daily range 11.83. Mean of Month 52° 35.4
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Rain just 3 Inches. Fine days 19. Prevailing winds SW.

This was a good autumnal month, with many changes, and some salutary showers to admit the plough after the long dry & hot time. A good seed time in the week ending on 28<sup>th</sup>. The Comet became very large & beautiful to the eye up to the 9<sup>th</sup>, then suddenly passed into the Southern Hemisphere!

# November 1858.

Nov.	Baro- meter	Wind.	Thermom. low. 8 high.	Thermom. 8 p.m.	Notes	Rain.
M. 1.	30.60 -55	NW <sub>o</sub> W <sub>o</sub> Var. o.	43 45 49		Close, cloudy & some fog, very gloomy, with blue haze all day, and little rain at intervals. Real November weather. Close & foggy evening, but fine. -	17
Tu. 2.	-54 -50	NE <sub>o</sub> E <sub>1</sub> E <sub>2</sub>	37 39 50		Clouds & dripping showers during the forenoon, fine and sunny at times in the afternoon. Clear star light evening, and part of night. -	08 4
W. 3.	-47 -45	NE <sub>1</sub> NE <sub>1</sub> Var. o.	39 41 51		Grey clouds & sun, fine and pleasant & chiefly sun till after 2 pm. Then cloudy, and little rain. Overcast evening, mild & misting at times. -	Elm leaves falling fast. 04 2
Th. 4.	-38 -38	E <sub>1</sub> N <sub>1</sub> NE <sub>2</sub>	47 49 53 <sup>1</sup>		Cloudy and close, very mild & more sun after 8 am; but a little dripping at times, the evening also close, and lowering, with harder rain at 8 pm. -	08 4
F. 5.	-30 -23	NW <sub>2</sub> NW <sub>2</sub> NW <sub>2</sub>	45 47 52		Overcast, but soon clearer, with grey clouds, & sun at times, but more cloudy from 3 pm, and some rain in the evening: blowing night, and a little shower or two. -	new moon 4.48 pm. 05
S. 6.	-37 -45	N <sub>4</sub> NE <sub>3</sub> NE <sub>2</sub>	40 43 47		Squalls early, and a little flying sleety rain, but the day mostly fair and some sun, but cold. Fine evening, somewhat cloudy, and inclined to sleet. but a fine night. -	Trees very much stripped of their foliage. 02 5
Su. 7.	-30 -50	NW <sub>1</sub> N <sub>2</sub> N <sub>1</sub>	39 39 47		Bright, with grey clouds, and mostly fair, but some light flimsy clouds at intervals with little sleety rain. and the same near midnight. -	02
42622			290 3495		Mean Temp 45° 678.)	Rain cal over. 0.46



November 1858.

Nov.	Baro. meter	Wind.	Thermometer lowest 8 highest pm	Weather &c.	Thermomr. 8 pm.	Notes.	Rain 0.46
M. 8.	30.38 -41	NW <sub>2</sub> N <sub>1</sub> N <sub>1</sub>	40 42 49	Lowering, rather showery in the night past; but chiefly fine all the day, some sun, and many clouds; fine night, and in part clear.	42		10
Tu. 9.	-55 -57	E <sub>2</sub> E <sub>2</sub> NE <sub>0</sub>	35 36 44	Clear, very bright morn'g, & little frost. continued bright with cumuli clouds. Even'g very cold, in part clear, and frosty inclined.	37		
W. 10.	-53 -49	NW <sub>1</sub> NW <sub>1</sub> N <sub>0</sub>	36 37 47	Foggy morn'g, but fair, & mostly bright in the day, some clouds near sunset, but a bright evening, and smart frost at night.	38	Foliage all falls rapidly.	
Th. 11.	-46 -42	Var. <sub>0</sub> SE <sub>2</sub> SE <sub>2</sub> S <sub>2</sub>	31 33 48	Frost & fog, but cleared after 9 a.m. & became bright, and much warmer after 11 a.m. cumuli & sun. Even'g clear, & gentle wind. Slight frost in the night.	38		
F. 12.	-28 -16	SE <sub>1</sub> SE <sub>3</sub> SE <sub>2</sub>	34 36 46	Clear, little frosty, but soon warmer; very fine & sunny day, but the wind cold after 2pm. Hazy even'g, moon dim & coloured haloes, but very cold.	38		
S. 13.	29.87 -68	E <sub>2</sub> E <sub>2</sub> E <sub>2</sub>	33 39 46	Hoar frost, & clear, bright with keen drying breeze, and very cold, although cheering and brisk weather. Evening hazy, and nearly like last evening.	38	moon 1 <sup>st</sup> Dr. 8. 42pm.	
Sa. 14.	-60 -74	NE <sub>4</sub> E <sub>5</sub> E <sub>6</sub> E <sub>4</sub>	38 43 47	Hazy streaked sky, & cold and parching wind; bright in the middle of the day, but very windy & cold, and more clouds after 2pm, and the evening cloudy, & blowing hard.	41	* ♂ ♀ very blowing all day, & the first gale for this season.	
42374		247 3275		Mean Temp 41° 035. - ) Main cur up - 0.56			

November 1858.

Nov <sup>r</sup>	Baro. meter	Wind.	Thermometer lowest 8 am highest		Weather &c.	Thermom <sup>t</sup> 8 pm.	Notes.	Rain. 0.56
M. 15.	29.90 -85	E <sub>4</sub> E <sub>4</sub> E <sub>4</sub>	36 37 42		Cloudy, blowing & very cold; became bright from 10 am, but very cold & blowing still with mottled Arcs from SE to NW. - The evening the same, & freezing winds. -	36	Δ 3 H	
Tu. 16.	-69 -59	E <sub>3</sub> E <sub>3</sub> E <sub>2</sub>	33 35 41		Cloudy & very cold, more sun by 10 am, and very fine but piercingly cold for the season. & arcs of stormy looking cloud. Even <sup>g</sup> cloudy and more close. -	38	roads dusty and fields dry.	
W. 17.	-67 -85	ENE <sub>2</sub> ENE <sub>2</sub> NE <sub>1</sub>	34 36 41		Less wind, but cold, with gray clouds & sun; very keen air, and very drying and fine. Less wind & nearly calm at sun-set, but a gain rather more after 8 pm. -	36	Trees all nearly bare, except a few Oaks	
Th. 18.	-82 -88	E <sub>½</sub> E <sub>2</sub> NE <sub>1</sub>	29 31 42		Keen white frost, calm and clear, except an Arc in SE, crowned by cirri all curled upward. Bright day, & cold, but some change at hand. Clear even <sup>g</sup> , & sharper. -	33	a row of erect cirri across the SE, 8 am.	
F. 19.	-92 -94	W <sub>0</sub> W <sub>1</sub> W <sub>1</sub>	27 27 37		Sharper frost & clear at first, but foggy from 9 till near noon: bright afternoon haze below & keen air. Sharp frost at eve, little haze & few light clouds. -	31	After 8 pm the frost abated.	
S. 20.	30.02 -77	W <sub>2</sub> NW <sub>1</sub> W <sub>0</sub> W <sub>0</sub>	31 35 40		Hazy, less frost, bright in the day & nearly calm, but very cold, & sometimes haze, and the Even <sup>g</sup> foggy but moon bright, and sharper frost. -	30		
Su. 21.	-23 -28	W <sub>0</sub> NE <sub>1</sub> E <sub>1</sub> E <sub>0</sub>	24 25 42		Severe frost & fog early, but from 7 am, very bright, and nearly calm. More clouds from sunset, but still frosty, and sharper in the night. Moon bright with some clouds. -	33	Full moon 2. 25 a.m.	
41881		215285		Mean Temp 35° 7/14.) Rain cal <sup>d</sup> over 0.56				



# November 1858.

Nov.	Baro. meter	Wind.	Thermom. low 8 am high	Thermom. 8 pm.	Notes	Rain 0.56
M. 22.	30.29 -29	NE NE NE	26 33 41		Sharp frost early, & chiefly clear, but from 7 am. showers of sleet, red & stormy sky, till after 8 then bright with some rocky clouds & keen air. Clear & serene night.	03
Tu. 23.	-22 -17	NE SE SE	20 21 37		Very severe frost, and fog, with rime on the trees &c. became bright after 9, and continued so all day, but very keen air. The Evens more severe, and quite clear.	02
W. 24.	-02 29.90	SE SE SE	20 22 39		Very severe frost, & streaked sky, but bright, much cirrus all day, & more wind, very sharp, and the Evens thick & hazy, & milder after 7 pm.	03
Th. 25.	-72 -49	SE SE S	29 41 45		Overcast, thaw, & fog, with a brisk wind, continued dark & some rain after 2 pm. blowing, wet, and mild. Evens, great change. Wet and windy night.	12
F. 26.	-42 -47	SSE SE SE	43 48 52		Rain at 2 am, cloudy and close morn'g, fine and very mild day, hazy & light clouds with gleams of sun. Evens more hazy & very mild. but stars visible.	11
S. 27.	-32 -15	SE SE S	43 48 49		Cloudy & very mild, gusts of wind, and rain at times, & at 2 pm became harder rain, and very wet afternoon. Evens close, but finer, & very dark and mild.	28
Su. 28.	-21 -41	SW SW SW	45 46 51		Very mild and close, sun at times, and fair, but much cloud, and very red at sunset. Evening chiefly clear, & stars bright. Night more stormy.	44
416.08		227 314		Mean Temp 38.64 Rain cal up 1.10		

# November 1858.

Nov.	Baro. meter	Wind.	Thermom. low 8 am high	Thermom. 8 pm.	Notes	Rain 1.10
M. 29.	29.34 -34	SW SW S	42 49 52		Lowering & mild, wind gusty & little wet, but mostly fine very dark and close at night, & trifling misting.	02
Tu. 30.	-28 -42	SW W W	43 48 48		Dark & close, but became very squally at 9 am, gusts of wind & stormy rain, the rest of the time still sunset. Finer Evens, but stormy in the night, and wind became more to NW.	14
117.38		85.5 100		Mean temp 2 days 46.375 Rain 1.26		

## Results, Nov. 1858.

Barom.	Highest on 1 <sup>st</sup> - 30.60	Therm.	Highest on 4 <sup>th</sup> - 53.5
	Lowest on 27 <sup>th</sup> - 29.15		Lowest on 23 & 24 - 20
	range - 1.45		range - 33.5
Mean of Month 30.02		mean daily range 10.1	
		Mean of month 40.67	

Prevailing winds Easterly, Fine days 16. Rain 1.26 Inch.

This month was much colder than usual, and the Thermometer the lowest on record in any November! - And what is still more remarkable, the cold in Gloucestershire was far greater still than with me! At Cheltenham on the six most severe days it stood as follows: - 18<sup>th</sup> 22°. 20<sup>th</sup> 25°. 21<sup>st</sup> and 22<sup>nd</sup> 18°. 23<sup>rd</sup> 12°. & 24<sup>th</sup> 8°! Many deaths among the aged, and diseases on the respiratory organs prevalent from the effect of the cold weather. The first week, and last 5 days being mild, brought the mean of the month somewhat up again, so that although the cold was greater at one time than before recorded in any Nov., yet the mean was higher than in 1851. but about 2 below the usual.



# December 1858.

Dec.	Barom. etc.	Wind.	Thermom. low 8 am high	Thermom. 8 pm.	Notes.	Rain.
W. 1.	29.57 -95	NW <sub>5</sub> NW <sub>4</sub> NW <sub>1</sub>	41 44 46		Rain & squally winds all the morn'g, from 3 am, and till after 7 am, then fine, but cloudy & windy. Sun set bright. Even'g nearly clear, & rather frosty.	rain early but at 7 am he came fair.
Th. 2.	-80 -98	SW <sub>3</sub> SW <sub>2</sub> W <sub>2</sub>	38 46 50		Cloudy, and again mild, slight mist at 11 am, fine afternoon, some sun, and the evening fine, and star light; colder during the night.	δ ♀ ♀
F. 3.	30.20 -20	W <sub>1</sub> W <sub>2</sub> S <sub>3</sub>	34 34 47		Clear, & little frost, bright nearly all day, but much blue haze after 3 pm; and a stormy looking sky in the evening.	
S. 4.	-70 -04	S <sub>4</sub> S <sub>4</sub> S <sub>1</sub>	41 48 51		Lowering & warm, and a very dark & misting day and faster rain at 4 pm. Even'g finer, & less wind very dark and warm.	Δ 0 7
Su. 5.	-02 -19	SW <sub>1</sub> NW <sub>2</sub> NW <sub>1</sub>	39 40 46		Clear, very fine morn'g, and bright all day, with some light clouds, & a brisk air. Clear star light evening, & little frosty.	New moon 10.10 am. Δ 4 8
M. 6.	-36 -38	NW <sub>1</sub> NW <sub>1</sub> NW <sub>0</sub>	32 33 37		White frost, clear at first, but fog came on at 9 am, again bright in the middle of the day, but fog below, & very cold. Foggy evening and more frost.	
Tu. 7.	-34 -31	Var. o. NE <sub>1</sub> NE <sub>1</sub>	2 1/2 30 38		Hard frost, & very white, became very cloudy, and dark all day, slight misting at times. Evening & night very close.	
421.44			252.5	31.5	Mean Temp 40° 53. -	Rain cald up 0.35

# December 1858.

Dec.	Barom. etc.	Wind.	Thermom. low 8 am high	Thermom. 8 pm.	Notes.	Rain.
W. 8.	30.35 -39	E <sub>0</sub> E <sub>1/2</sub> E <sub>0</sub>	36 37 39		Very cloudy, dark, & calm with misting at times, cold and raw atmosphere. - Dark evening, still calm, but finer.	03
Th. 9.	-43 -41	Var. o. NE <sub>1</sub> NE <sub>0</sub>	37 38 40		Very cloudy, gloomy, & calm, nearly alike all the day through, and the evening and night also, but finer than yesterday. -	unusual-ly dark all day.
F. 10.	-40 -45	E <sub>2</sub> E <sub>2</sub> E <sub>1</sub>	35 1/2 37 38		Cloudy, but not so close, & wind risen since 1 am; very cloudy & cold all day, but the evening nearly calm, and a dry air, inclined to freezing during night.	
S. 11.	-42 -39	SW <sub>2</sub> S <sub>2</sub> SSE <sub>3</sub>	32 32 36		Cloudy, but very cold, and freezing air, although from S. Even'g closer, and more wind, very cloudy, & threatening. - Night fine & milder.	roads & walks clean & dry.
Su. 12.	-28 -72	S <sub>2</sub> SE <sub>3</sub> SE <sub>3</sub>	34 36 36		Cloudy & milder in the morn'g, but colder from 10 am, dark and cloudy, with a keen breeze. - Somewhat milder in the night. -	Too dark to read common type in church pm.
M. 13.	29.98 30.03	SE <sub>2</sub> S <sub>1</sub> W <sub>0</sub>	34 37 42		Overcast, rain early & till 7 am, afterwards foggy all day, and calm, but fine and milder. Close and rather foggy in the night.	moon 1 <sup>st</sup> 2 <sup>nd</sup> 3.29 pm. * δ ♀
Tu. 14.	-78 -33	W <sub>1</sub> NW <sub>1</sub> NW <sub>1</sub>	38 38 41		Mild and foggy, very dark all day, and thicker fog dripping from the trees, very raw & unpleasant. - Even'g & night the same as the day.	very dark and foggy.
424.16			246.5	27.2	Mean Temp 37° 03. -	bar over 0.58



# December 1858.

Dec.	Baro- meter	Wind.	Thermometer lowest 8 am highest	Thermom 8 pm.	Notes.	Rain. 0.58
W. 15.	30.37 -31	NE <sub>0</sub> E <sub>2</sub> E <sub>2</sub>	32.2 32.2 41		Very thick fog, and dripping from the trees, cleared off at 10, then clouds & hail with rain at 11 1/2 am. Fine afternoon, & mostly sun. More wind in the night. 37	17
Th. 16.	-28 -30	SE <sub>4</sub> SE <sub>4</sub> SE <sub>2</sub>	34 34 36		Cold drying wind, and very dark sky, the whole day, but less wind after 4 pm. - Fine night, and very drying. 35	
F. 17.	-21 -22	SE <sub>3</sub> SE <sub>2</sub> SE <sub>3</sub>	34 36 39		Cloudy, cold & drying air all day nearly alike, but not quite so dark as yesterday. - Flying clouds at eve, moving from SW. little rain. 37	02
S. 18.	29.86 -66	SE <sub>4</sub> S <sub>5</sub> S <sub>6</sub>	36 41 46		Blowing & flying clouds, very stormy afternoon, and rain at 2 pm, and at times all the rest of the day, & more wind. Very wet & stormy night. 43	72
Su. 19.	-59 -62	SW <sub>4</sub> W <sub>2</sub> SSE <sub>2</sub>	42 48 48		Rainy morn'g, cleared off at 10 am. Some sun, and a very bright afternoon & clear sunset. - but cloudy evens & some rain, at 8 & 9 pm. 42	29
M. 20.	-66 -78	SW <sub>2</sub> SW <sub>2</sub> W <sub>1</sub>	33 36 44		Moon bright early am, fine day, & sun bright, with a keener air, and a clear moonlight. Evening. Night hazy, & thick. - 37	06
Tu. 21.	-89 -75	S <sub>2</sub> SSE <sub>5</sub> S <sub>3</sub>	35 39 53		Overcast & wet from 8 am very galy, stormy & dark. Finer evens, and very mild. Thermom. highest at 10 pm. Close air, and brisk wind. 51	30

419.30 246.307 Mean Temp 39° 53. Cur up - 1.54

# December 1858.

Dec.	Baro- meter	Wind.	Thermom. lowest 8 am highest	Thermom. 8 pm.	Notes.	Rain. 1.54
W. 22.	29.71 -78	SW <sub>3</sub> SW <sub>6</sub> SW <sub>4</sub>	44 44 48		Clearer morn'g. very stormy at a distance, squally day, and stormy rain at times, with bright sun the rest of the day. Evens chiefly fine & clear. 41	12
Th. 23.	-80 -37	SE <sub>5</sub> SE <sub>5</sub> SE <sub>3</sub>	41 43 50		Cloudy, blowing & mild, in the morn'g, but very dark all day, continual rain from 10 am, & squally wind. Very warm evens, & cloudy, but fine. Violent gale night. 50	78
F. 24.	-50 -63	SW <sub>8</sub> SW <sub>4</sub> SW <sub>1</sub>	39 39 46		Hard gale all the morn'g, very clear, bright, & blowing day, but wind less since 5 am, than in night past. Hazy round horizon all the evening. Lightning at 9 pm SSE. 38	02
S. 25.	-80 -50	SW <sub>2</sub> S <sub>4</sub> SSE <sub>4</sub>	33.2 34 46		Clear at first. Area of red cloud diverging from SE, at 10 rise: fine till noon, but a very wet & blowing afternoon. warmer evens, wind less, and night finer. 45	34
Su. 26.	-52 -32	SW <sub>2</sub> SW <sub>4</sub> W <sub>4</sub>	39 41 46		Fine till after 11 am, with a stormy sky, hard rain from 11 till 1 pm, afterwards blowing, and variable, very squally all night, rain after 12. 41	22
M. 27.	-42 -50	SW <sub>5</sub> W <sub>4</sub> W <sub>4</sub> NW <sub>5</sub>	40 41 45		Blowing & stormy skies, but chiefly fair, bright, and drying. - More stormy after 4 pm heavy clouds & galy Evens, and rain at times. Night finer but squally. 41	15
Tu. 28.	-76 -80	NW <sub>2</sub> NW <sub>1</sub> NW <sub>1</sub>	38 40 43		Chiefly sun in the forenoon, but cloudy afternoon, and less wind. Sun set clear and the Evens clear, and rather frosty. 36	05

414.41 274.5 324 Mean Temp 42° 75. Rain cal over - 2.60



# December 1858.

Dec.	Baro. meter	Wind.	Thermometer		Weather &c.	Thermom. 8 pm.	Notes.	Rain.
			Lowest	8 am. Highest				2.60
W. 29.	29.92	W <sub>2</sub> .	34		Clear & little frosty, mostly bright till 3 pm, but some dense rocky clouds from North afterwards. Little frost dur 3 night.			
		NW <sub>2</sub> .		34				
	30.10	NW <sub>1</sub> .		42		35		
Th. 30.	-23	SW <sub>1</sub> .	31		Change to overcast, very dark and rain at times, close and thick also, with a blue haze after 3 pm, and foggy evening. —		White frost, got lowered by haze, and rain. —	
		SW <sub>1</sub> .		34				
	-19	S <sub>1</sub> .		40		40		.21
F. 31.	-32	SE <sub>1</sub> .	40		Cloudy, dark, & mild, the whole day alike, and a little wetting at times. Finer evening, and a drier air. —			
		SE <sub>2</sub> .		41				
	-35	S <sub>1</sub> .		44		42		.03
18/11			105	126	Mean of 3 days 38°.5.)			Rain 2.84

## Results, December 1858.

Barom.	Highest on 10 <sup>th</sup>	30.45.	Therm.	Highest on 21 <sup>st</sup>	53°
	Lowest on 26 <sup>th</sup>	29.32.		Lowest on 7 <sup>th</sup>	27.5.
	Range	1.13		range	25.5
	Mean of month	30.00		Mean daily range	7.06.
				Mean of month	39.81.

Winds chiefly SW. & NW. Fine days 15. Rain 2.84 Inches.

This month was changeable, and but little frost, but wet and squally from the 21<sup>st</sup> to the end.

Less sickness than in the previous month, and the temperature about the usual mean. —

The second week remarkably dark, neither Sun, nor Moon seen! —

## General notes on 1858.

The Highest Barometer was on January 17<sup>th</sup>, when it stood 30.75, and the Lowest state occurred on the 6<sup>th</sup> of March, which was 29.01. —

Fine days 236, and total rain just under 24 Inches.

The greatest heat was on the 16<sup>th</sup> of June, 92°!

and the 12<sup>th</sup> of August, 90°! —

And the greatest cold on Nov 23<sup>rd</sup> & 24<sup>th</sup>, 20°.

Mean of the whole year 50°.64. This is above the usual mean, but under that of preceding year. —

The main features, or characteristics of 1858, were the remarkably hot June; fine summer-like time through September; and the unusually sharp wind and frost in the middle of November.

In June the heat exceeded that of 1857, and the whole summer was similar to that, but did not maintain so continued a heat as 1857, and the close of this year 1858 proved different so as to bring down the mean nearly to usual average, and considerably under that of previous date. —

Corn crops although good, proved less productive than last year, and the peas & beans were a great failure, having been scared off by the intense heat in June, while in blossom!



# General Results for 1858.

Table of the Winds.									Fine days.	Depth of rain.	Mean Bar.	Mean Temp.	Mean daily rain.	Gales.
1858	E.	W.	N.	S.	NE.	SE.	NW.	SW.						
Jan.	1	6	2	3	1	4	5	9	20	54	30.37	37.75	10.75	4.
Feb.	9	1	0	1	6	6	1	4	22	75	30.11	35.38	11.57	3.
Mar.	1	4	2	1	3½	3½	11	5	23	132	29.99	42.53	17.16	4.
Apr.	8	0	3	3	0	6	3	7	22	176	30.06	48.00	19.95	3.
May	2	1	3	4	5	1	2	13	14	280	30.04	54.29	17.58	0.
June	4½	4½	½	0	4	10½	2½	3½	25	116	30.21	66.95	20.38	0.
July.	0	7	2	0	4	7	5	6	16	448	30.06	62.81	15.82	1.
Aug.	2	3	0	0	4½	9	7	5½	22	304	30.11	64.67	18.80	0.
Sep.	4	2	0	1	2	5	2	14	22	103	30.14	62.35	15.21	0.
Oct.	3	5	1	1	6	2	2	11	19	300	30.10	52.35	11.82	1.
Nov.	7½	4	2½	0	4½	7	2½	2	16	126	30.02	40.67	10.10	3.
Dec.	3	1½	0	4½	2½	5½	6	8	15	284	30.00	39.81	7.06	3.
1858.	45	39	16	18½	43	66½	49	88	236	2398	30.10	50.64	14.68	22.

Thus ended the third year of a series of Wet Summers, probably from the influence of the passage of the stupendous Comet, which was nearest the Earth in October last.

Orlando Whistecraft

Dec. 31<sup>st</sup> 1858.

# January 1859.

Jan'y.	Baro- meter.	Wind.	Thermom.		Weather &c.	Thermom. 8 p.m.	Notes.	Rain.	
			lowest	8 a.m. highest					
S. 1.	30.42	S <sub>2</sub> .	39		Overcast, dark, and wet, more or less till 1 p.m., then finer, but very foggy. The evening calm, and continued fog. - Night the same.		84°	13	
		SSW <sub>1</sub> .		41					
		S <sub>½</sub> .		44					
	32	Var. o.				42			
Su. 2.	32	NW <sub>1</sub> .	33		Foggy morn'g, became bright at 11 a.m., & chiefly so in the day, but a very foggy evening, gentle frost, & clearer some part of the night.				
		NW <sub>2</sub> .		34					
		NW <sub>o</sub> .		42					
	38								
M. 3.	37	SW <sub>½</sub> .	30		Clear, & gentle frost, continued bright till 1 p.m., afterwards wind & drifting fog. Even'g again rather clearer, but the night cloudy.		Therm. fell to 33° after the fog came.		
		SW <sub>3</sub> .		30					
		SW <sub>2</sub> .		38					
	36								
Tu. 4.	36	W <sub>3</sub> .	33		Cloudy, more or less all day, less wind in the afternoon, & rather milder, and a hazy evening, and drizzling night.		New moon 5.26 a.m.		
		W <sub>1</sub> .		37					
		NW <sub>½</sub> .		43					
	36								
W. 5.	37	NW <sub>2</sub> .	37		Slight rain & heavy fog, very dripping air, till noon, clearer afternoon, some sun, starlight even'g, but again foggy after 8 p.m.		very dripping fog at times.	05	
		NE <sub>2</sub> .		43					
		ENE <sub>1</sub> .		44					
	35								
Th. 6.	35	Var. ½.	34		Cloudy & mild morn'g, followed by fog at 11 a.m.; very foggy afternoon. Clearer evening, and misting, rain, very dripping air.		mildest about 11 p.m.	03	
		W <sub>2</sub> .		36					
		SW <sub>1</sub> .		40					
	36								
F. 7.	33	W <sub>4</sub> .	33		Windy & cloudy morn'g, became colder & little snow at 8 a.m.: stormy skies & some sun, with sleet showers. Fine evening, partly clear.		A cold looking sky all day.	02	
		NW <sub>3</sub> .		34					
		NW <sub>3</sub> .		39					
	30								
42805			239	290	Mean Temp 37.78. } carried over.				0.23



# January 1859.

Jan.	Baro. meteo	Wind.	Thermometer lowest 8 highest	Thermom. 8pm.	Notes	Rain 0.23
S. 8.	30.70 -77	NW <sub>1</sub> NE <sub>1</sub> NE <sub>0</sub>	32 35 39		Cloudy with sun, and very little wind, but cold and the clouds snowy in appearance. Calm & hazy evening, but stars seen. - Night frosty. -	0.43
Su. 9.	-81 -82	SW <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	26 26 36		Keen frost early, bright forenoon, grey clouds in the afternoon; and very gloomy till about 6pm. Then clearer, & frosty but moon dim. -	cloudy & less frost after 10pm. 31
M. 10.	-74 -65	SW <sub>2</sub> SW <sub>4</sub> SW <sub>5</sub>	29 35 44		Cloudy more or less, sun at times. Stormy looking sky, wind rising & became boisterous after 5pm, and very windy. Evening, and the night the same. -	sky very red at sun-set. 43
Tu. 11.	-52 -52	SW <sub>6</sub> W <sub>6</sub> W <sub>3</sub>	41 43 48		Very blowing & mild, and a bright and drying day with light clouds. -	windy gaily all night, but fine & mild. - 44
W. 12.	-48 -52	W <sub>4</sub> W <sub>3</sub> W <sub>1</sub>	43 46 50		Blowing and mild, with much cloud; but more sun in the afternoon, & clear evening and less wind, but moon very dim. -	moon 1st Dr 7.23am. 42
Th. 13.	-54 -58	NW <sub>2</sub> NE <sub>2</sub> NE <sub>1</sub>	37 39 42		Cloudy, little wet, in the morning, but fine afterwards with sun at times, colder & sleety looking clouds. -	showers of sleet in the evening. 32
F. 14.	-53 -50	N <sub>2</sub> N <sub>1</sub> N <sub>0</sub>	29 30 37		Grey clouds and sun, but chiefly bright all day, and very cold. - Calm evening, frosty, and some grey & hazy clouds. -	31
428.68			237 296	Mean Temp 38°.07 } Rain cald up. 0.26		

# January 1859.

Jan.	Baro. meteo	Wind.	Thermometer lowest 8 highest	Thermom. 8pm.	Notes	Rain 0.26
S. 15.	30.40 -37	SW <sub>2</sub> SE <sub>2</sub> SE <sub>2</sub>	30 34 39		Fog, haze, & much cloud; continued so till noon, afterwards chiefly bright, but very cold, and a raw atmosphere. - Moon rather dim but a clear night. -	0.44 31
Su. 16.	-30 -22	S <sub>3</sub> SSE <sub>4</sub> SSE <sub>3</sub>	30 32 37		Clear & keen wind, more wind after 10, & light grey & hazy clouds - but very cold, and the evening clearer. Haloes round the moon, & sharp air. -	very cold & drying day. 31
M. 17.	-05 -02	S <sub>4</sub> SW <sub>4</sub> SW <sub>1</sub>	31 39 48		Overcast, & little misting at 8am, stormy sky & the wind gusty all day, dark, & little rain. - Hazy & thick evening, but fine, & wind less. -	0.3
Tu. 18.	29.84 -82	S <sub>6</sub> SW <sub>6</sub> SW <sub>5</sub>	43 51 54		Very blowing rainy & mild, dark & stormy sky, but finer after 10am. - Still dark, & windy, but the night clearer, and fine. -	Full moon 11.49pm. 73 51
W. 19.	30.00 -21	SW <sub>2</sub> W <sub>1</sub> W <sub>0</sub>	40 41 48		Bright with stormy sky, more cloudy after 9am, with sun at times, but much stormy cloud at a distance. Clear evening, no wind, & frosty. -	Acorn in flower, and the snowdrift opening. 37
Th. 20.	-30 -28	S <sub>1</sub> S <sub>3</sub> S <sub>4</sub>	31 32 43		Hard frost, & very white, very keen & raw, but bright, till 12, afternoon fog & sleet. Cloudy & hazy evening, wind gusty, & the same all night. -	0.44 39
F. 21.	-24 -21	S <sub>4</sub> SE <sub>4</sub> S <sub>4</sub>	39 41 45		Hazy, dark, & windy, with a cold and drying air; very squally and bleak, but fine. - Evening & night similar to the day. -	42
422.26			244 314	Mean Temp 39°.85. } Rain cald over 42		



# January 1859.

Jan't.	Baro. meter.	Wind.	Thermom. lowest 8 am highest	Weather &c.	Thermom. 8 pm	notes.	Rain 0.42
S. 22.	30.06 -04	S <sub>4</sub> SW <sub>4</sub> SW <sub>2</sub>	42 44 47	Cloudy & gloomy, very low- ering and squally, with rain at times, ending with a short storm 4 pm. Starlight Evens;	40	Some hail at 4 pm. with the storm.	06
Su. 23.	29.83 -30	S <sub>6</sub> SSW <sub>8</sub> SW <sub>3</sub> 2.1.	33 38 44	Very stormy, blowing & cloudy increased to heavy gale from 10 am; very rainy afternoon and furious gale continued till 5, then abated fast, & rain ceased. Fine night.	43	Barom fell rapidly all day.	36
M. 24.	-67 -88	SW <sub>3</sub> W <sub>3</sub> W <sub>4</sub>	34 36 44	Clear morning, but soon cloudy with sun between, bleak wind, and cloudy afternoon, with gleams of sun. Cloudy & windy evening, Mild night.	44		
Tu. 25.	30.03 29.88	SW <sub>3</sub> SW <sub>5</sub> SW <sub>5</sub>	41 48 50	Very mild & cloudy, with sun at times, and the wind ve- ry gusty, & squally; the Evening and night the same, and winds increasing.	46	moon last 20 8.45 pm. Birds very trifling.	
W. 26.	-77 -90	SW <sub>9</sub> SW <sub>4</sub> SW <sub>5</sub>	37 37 45	Violent gale of wind with hail & rain at 3 am; after- wards less wind, & clear sky, bright all day, few clouds after 1 pm, clear even, and wind brisk, & gusty.	38	Violent gale & hail 3 am.	06
Th. 27.	-75 -90	SW <sub>6</sub> SW <sub>6</sub> W <sub>2</sub>	38 45 49	Blowing, mild & cloudy, sun at times, short flying shower at 12, then less wind, and a fine bright afternoon, - & Starlight Evens.	40	Snowdrops in bloom.	
F. 28.	-90 -97	SW <sub>2</sub> W <sub>1</sub> W <sub>1</sub>	37 41 49	Cloudy morn'g, but a very fine day, and the afternoon very pleasant, mild, and bright. the evening near the same.	37	80 h Birds musical.	
417.88		2625328		Mean Temp 42° 178. - Rain cal' up '90			

# January 1859.

Jan't.	Baro. meter.	Wind.	Thermom. lowest 8 am highest	Weather, &c.	Thermom. 8 pm	notes.	Rain. 0.90
S. 29.	29.96 -70	SW <sub>2</sub> S <sub>5</sub> S <sub>6</sub>	33 36 50	Foggy morn'g, clear from 9 am, but soon cloudy, & squally wind, and very lowering with stronger wind at Evens, & little wet.	50	Stormy atmosphere.	03
Su. 30.	-67 -56	SW <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	40 41 47	Hazy - then overcast & wet from 10 am, till 11 am, af- terwards fine with sun at times; heavy clouds at dusk. Sky red. - Starlight evening.	38		05
M. 31.	-64 -74	S <sub>2</sub> SW <sub>3</sub> SW <sub>1</sub>	31 33 42	Hazy, little frost, bright afternoon, and keen air. Clear & frosty Evening. but the night milder.	33	* H <sub>2</sub> O milder again after 8 pm.	
178.27		1045139		Mean Temp 3 days 40.583. Total rain 0.98			

Results for January 1859.

Barom <sup>r</sup>	Highest on 9 <sup>th</sup> 30.82	Thermom <sup>r</sup>	Highest on 18 <sup>th</sup> 54°
	Lowest on 23 <sup>rd</sup> 29.30		Lowest on 9 <sup>th</sup> 26°
	Range - 1.52		range - 28°
	Mean of Month 30.24		Mean daily range - 9.03
		Mean of Month 39° 58	

Fine days 19. Rain 0.98 Inch: Prevailing winds SW, & S to W.  
This was a very changeable month, but mostly fine, mild,  
and windy. The frost was seldom, and only slight, and  
snow was seen only on the 7<sup>th</sup> and 13<sup>th</sup> here, and but  
very little even then. Strong gales prevailed on 23<sup>rd</sup>,  
and 26<sup>th</sup> with damage by sea & land. - Public health  
suffered less than usual, owing to the absence of cold.  
Heavy gales on six days of this month.



# February 1859.

Feb.	Baro. meter.	Wind.	Thermometer 8 am. 8 pm.	Weather, &c.	Thermom. 8 pm.	Notes.	Rain.
Tu. 1.	29.93	SW <sub>2</sub> W <sub>3</sub> W <sub>2</sub>	33 37 44	Hazy & close morn'g, bright & clear from 10 a.m., but a keen wind. Clear even'g, & inclined to frost, but from 10 p.m. very blowing & cloudy.	35	Δ 0.4	
W. 2.	-50 -39	W <sub>6</sub> W <sub>4</sub> W <sub>6</sub>	35 39 44	Blowing all the morn'g with sleet & rain at times. But fine & bright after 8, till 11, very squally afternoon & flying storms, hail & rain.	40	very stormy afternoon.	.73 .06
Th. 3.	-87 30.26	NW <sub>5</sub> NW <sub>4</sub> N <sub>1</sub>	32 32 39	Blowing & cold, flying showers of snow at times; very stormy and winterly. Wind less at eve, little frost during the night.	33	New moon 1-4 a.m. snow at times.	
F. 4.	-22 29.90	SE <sub>2</sub> S <sub>4</sub> SW <sub>6</sub>	29 34 45	Change from frost to cloudy & blowing; very stormy and dark, with a little rain in the even'g, & more wind. Stormy & mild night.	41	Squally even'g.	.03
S. 5.	-68 -70	S <sub>4</sub> SW <sub>3</sub> SW <sub>1</sub> S <sub>3</sub>	40 44 49	Overcast, mild, & some rain in squally storms till 11 a.m., afterwards fair, and bright even'g, hazy, and the night stormy & windy.	39	Stormy morn'g. pale yellow sun-set.	.08
Su. 6.	-40 -50	SE <sub>5</sub> S <sub>3</sub> SW <sub>2</sub>	37 39 44	Very stormy, wind & rain all the morning. From 11 a.m. became fine & some sun, and the evening hazy, slightly frosty during night.	35	Stormy till 11 a.m.	.76
M. 7.	-30 -47	SE <sub>1</sub> S <sub>4</sub> S <sub>2</sub>	32 32 46	Clear, little frost, but much cloud followed, windy & stormy sky, little shower 6 p.m. Night fine but hazy.	37		.06
Tu. 8.	-60 -72	SE <sub>2</sub> SE <sub>4</sub> SE <sub>3</sub>	31 33 43	Very white frost, followed by low clouds, & gusty wind. Hazy evening, and keen wind. Cloudy night, & milder.	41	night milder after 7.	
47.56.3		26.9 35.4		Mean Temp 38° 93. Rain cal up 0.52			

# February 1859.

Feb.	Baro. meter.	Wind.	Thermom. 8 am. 8 pm.	Weather &c.	Thermom. 8 pm.	Notes.	Rain.
W. 9.	29.69 -52	SE <sub>3</sub> SSE <sub>6</sub> S <sub>5</sub>	38 41 47	Cloudy, blowing morn'g, and from noon became dark & driving rain with heavy gale at S.E. rather abating all the even'g, and less rain. Finer night.	46	Exceedingly wet. Stormy & coarse.	.37
Th. 10.	-62 -62	SW <sub>2</sub> S <sub>2</sub> S <sub>3</sub>	43 45 50	Cloudy, & close morn'g, but the day chiefly fair & sunny, little flying showers at times. Even'g rather lowering & squally, some rain during night.	46	moon 1 <sup>st</sup> 2 <sup>nd</sup> 7.40 p.m.	.03 2 .07
F. 11.	-73 -75	S <sub>4</sub> SW <sub>5</sub> SW <sub>4</sub>	38 43 51	Windy & mild, with sun, and flying clouds. Fine but very blowing most of the day. White clouds & bright moon at eve, and a fine night.	44	Δ h 8 Garden flowers opening gradually.	
S. 12.	-81 -93	S <sub>4</sub> SW <sub>3</sub> SW <sub>1</sub>	43 45 51	Blowing & mild, chiefly bright but some low clouds, heavy shower 3 p.m., and heavy one at 4 <sup>th</sup> p.m., afterwards fine, and less wind. Night nearly clear.	42	Heavy showers p.m.	.42
Su. 13.	30.06 -72	SW <sub>1</sub> SW <sub>1</sub> SE <sub>2</sub>	39 41 50	Bright with light clouds, and a fine & mild day, with very gentle wind, and very bright moon. Even'g, but changed in the night to cloudy.	41	8 h 8	
M. 14.	29.99 30.10	S <sub>3</sub> W <sub>3</sub> NW <sub>4</sub>	36 42 48	Cloudy more or less, but fine till after 1 p.m., then very dark, and rain at times, till 5 p.m. afterwards a clearer, colder, & blowing even'g.	39		.72
Tu. 15.	-23 -72	S <sub>1</sub> SW <sub>4</sub> SW <sub>4</sub>	33 36 50	Little frost but soon changed to a cloudy & watery sky, little sun at times, & more wind. Hazy even'g, dark clouds, & gusty wind, very mild & blowing night.	49	Δ 4 8 * 4 8 * 8 8	
W. 16.	-73 -70	SW <sub>5</sub> SW <sub>6</sub> W <sub>6</sub>	46 49 57	Grey clouds, mild & blowing all day, and unusually warm in the afternoon, although very windy. And a cloudy and blowing night.	51	Crocus in flower!	
47.85.2		31.6 40.45		Mean Temp 45° 03. Rain cal over 1.58			



# February 1859.

Feb.	Baro- meter.	Wind.	Thermometer lowest 8 am highest	Weather &c.	Thermomr 8pm.	notes.	Rain 1853
Th. 17.	30.27 -10	W <sub>3</sub> . WSW <sub>6</sub> W <sub>6</sub> . NW <sub>3</sub> .	44 45 55.2	Bright morn'g, but clouds in the day, strong wind, & some sun, very drying air, & bleak to the feelings, although mild. Very squally evening, hard rain from 8pm.	46	Full moon 10.41 a.m.	13
F. 18.	-22 -37	NW <sub>6</sub> . NW <sub>6</sub> . NW <sub>4</sub> .	37 37 46	Clear & very keen wind, cont. bright, but with heavy rocky clouds & stormy sky. Hazy Evens, & less wind, but very cold.	37	☐ ☉ ☿ ☐ ♀	
S. 19.	-42 -40	NW <sub>2</sub> . NW <sub>2</sub> . W <sub>1</sub> .	33 35 46	Hazy, Keen air & frosty morn'g, fine sunny day, till 2pm, but cold, & dark clouds followed from NW. Overcast & rain 8pm.	41	rain at Eve.	11
Su. 20.	-38 -45	W <sub>1</sub> . W <sub>2</sub> . W <sub>0</sub> .	40 42 50	Very hazy & cloudy, continued cloudy & mild, with gentle wind, and little sun. Calm close and dark evening.	45	Thermomr in flower.	
M. 21.	-42 -47	S <sub>0</sub> . S <sub>1</sub> . SE <sub>1</sub> .	42 44 53	Grey clouds, and sun, calm and mild, spring-like day, close evening, and more cloudy, night rather clear.	44	Crocus full in bloom.	
Tu. 22.	-41 -45	S <sub>2</sub> . SW <sub>3</sub> . W <sub>2</sub> .	41 44 53	Cloudy till near 12, afterwards sun and less cloudy, mild, & more wind, till 3, then dark and rainy till 5. Clear Eveng.	41	rainy from 3 1/2 to 5pm.	05
W. 23.	-64 -70	NW <sub>1</sub> . NW <sub>2</sub> . W <sub>1</sub> .	32.2 33 47	Clear, little frost early, fine & chiefly bright all day, few clouds and air keener. Clear star-light Eveng, but clouds & wind more in the night.	38	violet flower.	
Th. 24.	-48 -45	W <sub>2</sub> . W <sub>2</sub> . SW <sub>0</sub> .	35 39 51	Clouds & sun, but soon quite clear, very bright all day, and the afternoon mild and pleasant: roads dusty. Calm Evens, rather hazy.	42	moon last 20 2. 21 pm.	
F. 25.	-39 -35	W <sub>2</sub> . W <sub>2</sub> . SW <sub>0</sub> .	33.2 37 49.2	Grey clouds, and sun, but the afternoon more cloudy, Evens calm, and clearer. Again cloudy after 8pm.	43	a trifling rain 1pm. lightning 8pm.	
547.37			33.8 45.1	Mean Temp 43° 833.)		Rain & up - 1.82	

# February 1859.

Feb.	Baro- meter.	Wind.	Thermomr lowest 8 am highest	Weather &c.	Thermomr 8pm.	notes.	Rain 1852
S. 26.	30.09 29.77	SW <sub>3</sub> . SW <sub>5</sub> . W <sub>3</sub> .	35 37 49	Clear morn'g, brisk wind, low clouds followed, and squalls of wind, again brighter from 3pm, followed by a drifting storm of rain 4pm, & again at 10pm.	42	Sudden stormy rain at 4pm. & 12pm.	10 09
Su. 27.	-96 30.31	W <sub>4</sub> . WNW <sub>4</sub> . NW <sub>2</sub> .	37 1/2 43 50 1/2	Stormy & blowing all night past, bright morn'g, and bright with rocky cumuli in the day; less wind, after 4pm, evening fine & chiefly clear.	40	violet in full flower.	
M. 28.	-40 -33	SE <sub>1</sub> . SW <sub>2</sub> . SE <sub>1</sub> .	31 33 51	Clear, & frost early, very bright all day, grey haze after 3pm & little wind. Evening clear and inclined to frost. Little fog in the night.	39	Thrush's Eggs found!	
180.86			103.5 150.5	Mean Temp 3 days 42° 33.)		Total rain 2.01	

## Results, February 1859.

Baromr.	Highest on 23° - 30.70 Lowest on 2° - 29.39 range - 1.31 Mean of Month 30.04	Therm.	Highest on 16° - 57° Lowest on 4° - 29° range - 28° Mean daily range - 11.91. Mean of month 42° 616
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Winds chiefly SW & W. Fine days 15. Rain 2.01 Inches.

This was a mild month, and vegetation made a considerable start, so that the Yellow Crocus, and the sweet blue violet, both March flowers, were full in bloom during the month: birds built their nests, and the Eggs of the Thrush were found at the close of the month! Fruit-bushes opened their buds, and many garden-plants their blossoms! A few cowslips also opened at this time! Gales on six days in this month.



# March 1859.

March	Baro- meter	Wind	Thermom. lowest 8 am highest	Weather &c.	Thermom. 8pm	Notes	Rain.
Tu. 1.	30.37 -40	SW <sub>1</sub> W <sub>2</sub> Var. o.	35 39 53½	Very fine & bright, pleasant and mild, light dappled clouds in the afternoon; calm & hazy evening, red clouds at sunset. —	43		
W. 2.	34 -23	SW <sub>1</sub> SW <sub>2</sub> S ½.	36 38 53½	Bright with thin clouds, & little haze, mild and pleasant day. Calm evening little haze, but stars seen upward. —	45		
Th. 3.	27 -33	SW <sub>1</sub> WSW <sub>2</sub> SW <sub>1</sub> .	40 44 59	Very fine, bright, and warm with small electric clouds, and drying breezes. Evening close and hazy, more wind in the night, & very warm.	50	☐☐4 Hawthorn in leaf.	
F. 4.	33 -35	SW <sub>3</sub> WSW <sub>2</sub> SW <sub>2</sub> .	46½ 53 65	Cloudy morning, & very warm. Fine & very warm day, sun, & light clouds, with brisk wind. Therm° 65° from 3 to 4½ pm, and 63 at ½ to 6 pm. Sultry evening. —	58	new moon 7.11 pm	
S. 5.	40 -35	W <sub>3</sub> W <sub>3</sub> SW <sub>2</sub> .	51 54 64	Close & cloudy morning, but soon very bright, and summerlike with brisk wind, quite clear all the afternoon, and brilliant evening. Windy night.	53	brown butterfly appeared	
Su. 6.	35 -29	W <sub>3</sub> W <sub>2</sub> SW <sub>1</sub> .	45 49 60½	Clear & windy morning, very fine warm & bright day, some light cumuli & wane clouds, & less wind evening very electric, and hazy. Wind rose in the night. —	50	☐48 weeping willow in leaf.	
M. 7.	29.98 -75	SW <sub>4</sub> SW <sub>5</sub> SW <sub>6</sub> .	48 51 58	Cloudy, blowing, and mild, with some sun, clearer after 11, but more galy & clouds stormy. Squalls & rain at 8 & 9 pm, windy night.	51	ΔH8 Mean Temp to this day 51° 07.	03
Tu 8.	72 30.03	W <sub>5</sub> NW <sub>6</sub> NW <sub>3</sub> .	38 40 47½	Colder, windy & clear morning, very stormy day, frequent squalls, hail with rain, & distant thunder. Clear, cold night, and distant lightning.	35	Thunder SE. at noon.	04
W. 9.	33 -56	NW <sub>3</sub> NW <sub>2</sub> Var. o.	32½ 34 43½	Clear, & very keen wind; bright and cold day, but wind, less after 12. Some small clouds. Clear calm, & frosty evening. —	33		
54.4.38		372 504.5		Mean Temp 48° 69.4. Rain cut up 0.07			

# March 1859.

March	Baro- meter	Wind	Thermom. lowest 8 am highest	Weather &c.	Thermom. 8pm	Notes	Rain.
Th. 10.	30.50 -42	S <sub>1</sub> SW <sub>2</sub> S <sub>2</sub> .	29½ 32 51	Frost early, & chiefly clear, a very fine & bright day, wind again more, but mild returning. Grey haze at 4 pm. Evening clear, some wind in the night. —	41	Hazy, and milder from.	0
F. 11.	12 29.82	SSE <sub>3</sub> S <sub>5</sub> SSW <sub>5</sub> .	34 39 59	Clear, & wind rising; very blowing day, with hazy clouds, and much warmer again; continued windy, & rain from 5 pm at times. —	49½	became hazy, and thickening after 1 pm.	06 2
S. 12.	75 -80	SW <sub>5</sub> SW <sub>4</sub> SW <sub>5</sub> .	49½ 54 57	Very mild, blowing & cloudy; with rain at frequent intervals, very close & warm evening, & wind very squally the night the same. —	55	8½ moon 1st Dr. 4.39 am.	12
Su. 13.	77 -70	SW <sub>6</sub> SW <sub>7</sub> WSW <sub>7</sub> .	52 54 58	Very warm, stormy, windy and rainy more or less till 3 pm, then clearer, and some sun, but wind more evening hazy & very strong gale. Much rain during night. —	53	yellow daffodils in full flower.	13
M. 14.	78 -65	SW <sub>2</sub> SW <sub>2</sub> S 3.5.	48 50 54½	Very cloudy, close, & much rain early; followed by more from gam, very fast, & almost continuous though the day. The tinual though the day. The evening & night finer, but very windy. —	51	Lilac & willow leaf open.	33 41
Tu. 15.	18 -57	SW <sub>5</sub> W <sub>6</sub> W <sub>6</sub> .	45 47 49	Heavy gales & some rain at times, with hail, & sudden squalls. Sun shone at short intervals. — Evening fine but blowing & some dark clouds. —	43	Exceedingly stormy.	11 05
W. 16.	97 30.04	SW <sub>3</sub> W <sub>4</sub> W <sub>2</sub> .	37 45 56	Little rain, but fair at 8 am and through the day, also sunny & mild, but many clouds, & hazy sky. Cloudy evening & wind less, but a gain at 9½ at eve. —	49	Cowslips in flower. dyanemore in leaf.	03
Th. 17.	29.92 -74	SW <sub>5</sub> SW <sub>6</sub> SW <sub>5</sub> .	45 49 54	Cloudy & blowing hard all day, sun at times, but the clouds dark & stormy looking, lowering & little rain at evening. Wind very gusty. —	50	ΔH8 very windy. wet night.	16
477.73		340 438.5		Mean Temp 48° 65.6. Rain cut over 1.47			



# March 1859.

March	Baro- meter	Wind.	Thermometer low 8 am high	Thermom 8 pm.	Weather &c.	Notes	Rain 1.47
F. 18.	29.72 -93	SW <sub>2</sub> W <sub>3</sub> SW <sub>2</sub>	40 42 52		Hazy at first, but very bright from 10 am; fair & sunny, with rocky clouds till 3 pm, then a short shower & hail. Fine & calm moonlight eveng. -	Full moon 9.45 pm.	.07
S. 19.	30.25 -40	W <sub>1</sub> NW <sub>2</sub> W <sub>0</sub>	33 37 52		Clear, morn'g, and a very fine sunny day, with rocky clouds, & cool breeze. Even'g hazy, & calm, and the night also. -		
Su. 20.	-43 -25	SW <sub>1</sub> SW <sub>3</sub> SW <sub>4</sub>	37 43 55		Bright with light clouds, wind rising after 9 am, chiefly bright till noon, afterwards hazy, and thick, blowing & darker. Squally all night, & some rain. 47	*OH chestnut leaf open	
M. 21.	29.97 30.12	NW <sub>4</sub> NW <sub>2</sub> N <sub>1</sub>	43 43 49		Squally & wet morn'g, less wind after day-light, but colder, day chiefly fine & sun from noon to 3 pm, distant storms & dark clouds. - Clear & cold even'g. -	□H Δ4 Equinox.	.37
Tu. 22.	-33 -38	NW <sub>3</sub> NW <sub>2</sub> W <sub>0</sub>	33 36 45		Sleet shower early A.M. - Cold, & clear after sunrise; day chiefly bright with rocky clouds, and distant storms. Calm even'g, hazy & cold. -		.04
W. 23.	-27 -20	W <sub>2</sub> W <sub>1</sub> NW <sub>1</sub>	37 44 52		Hazy with heavy clouds, and sun, milder & rather close at times. Evening very hazy, and a cloudy & close night. 46	*48	
Th. 24.	-12 -13	NW <sub>2</sub> W <sub>1</sub> W <sub>2</sub>	44 47 56		Cloudy and close, with some sun at times, mild and pleasant; very cloudy evening and a fresh breeze. - mild night, and cloudy. -		.49
F. 25.	-08 -04	W <sub>2</sub> WNW <sub>3</sub> W <sub>2</sub>	46 48 58		Cloudy, and very dark clouds with sun at times, warm and pleasant, and very cloudy even'g, and night. -	*98	.50
S. 26.	29.98 -95	W <sub>3</sub> W <sub>4</sub> NW <sub>3</sub>	44 48 55		Grey clouds, & sun, with a very brisk wind, and darker clouds in the afternoon. Red sun set, and squally sky. - Mild night, rather cloudy. -	moon last Dr 9.27 am.	.47
54.255			357	476	Mean Temp 46.277. Rain cald up 1.95		

# March 1859.

March	Baro- meter	Wind.	Thermom. low 8 am high	Thermom 8 pm.	Weather &c.	Notes	Rain. 1.95
Su. 27.	30.05 29.97	WSW <sub>2</sub> SW <sub>4</sub> SW <sub>2</sub>	45 51 57		Grey clouds & sun, with a brisk wind: warm & pleasant. - Very electric stormy sky in the even'g, dark cumulostratus in SE. very little rain at 8 pm. -	ΔOH Black- thorn flower.	.02
Mo. 28.	-78 -56	SW <sub>2</sub> SW <sub>4</sub> S <sub>3</sub>	46 48 55		Very cloudy, & mild, blowing and lowering, with sun at times in the day. Very blowing and mild night, dark & lowering. -	showers at a bit the distance.	.02
Tu. 29.	-27 -31	S <sub>5</sub> SW <sub>5</sub> W <sub>0</sub>	46 51 58		Blowing, lowering, & little wet at 7 am, clearer from 8 am, windy with rocky clouds, and sun; less wind after 4, and became calm in the even'g. -	some dis- tant falls of rain pm.	.02
W. 30.	-33 -65	NW <sub>2</sub> N <sub>4</sub> Var. N <sub>3</sub>	40 43 50		Very gloomy & cloudy morn'g, but bright with rocky clouds from 9 till 11, then a storm of hail, followed by rain, gloomy & rainy pm, hail, & squall by wind at times. -	sudden squall at 12 from N.	.11
Th. 31.	30.04 -30	NW <sub>3</sub> NW <sub>3</sub> NW <sub>1</sub>	31 36 44		Hails of hail & sleet early am; mostly fine & sunny in the day, but some little flights of sleet. The afternoon quite fair & bright. very cold even'g. -		.04
297.26			2085	2645	Mean Temp 5 days 47.3. Total rain 2.14		

## Results, March 1859.

Barom <sup>r</sup>	Highest on 9 <sup>th</sup> - 30.56	Therm <sup>r</sup>	Highest on 4 <sup>th</sup> - 65°
	Lowest on 15 <sup>th</sup> - 29.18		Lowest on 10 <sup>th</sup> - 29.2
	range - 1.38		range - 35.2
Mean of Month 30.03		Mean daily range 13.19	
		Mean of Month 47.75	

Rain 2.14 Inches. Fine days 16. Winds chiefly SW and W. -

This month was remarkably mild, and windy, with genial showers, and vegetation forward in the extreme. And the three months past - for mildness were equalled only by the same period of 1822 & 1846. - For the progress of vegetation & other annual indications, see the column of notes above, and in foregoing pages. - Public health comparatively good & what it usually is at this season. - Sales this month on 5 days.



# APRIL 1859.

April.	Barom. eter.	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermom. 8pm.	notes.	Rain.
F. 1.	30.38 -23	Var. 0. S 3. SW 4.	25 40 47	Clear, sharp frost early a.m., but soon changed. Bright day, with light haze & cirri, wind rising, and became thick at 3, and very thick & dark windy, Evens. 40		very blinding sight.	
S. 2.	29.98 30.15	SW 6. WSW 3. WSW 3.	37 46 55	Cloudy, rainy & windy, in the morning, cloudy all day & mild, with little rain at times, & less wind. Very close Evens, great change. 52		blowing & rain 3 & 4 p.m.	15
Su. 3.	-25 -21	SW 2. SW 3. SW 4.	46 51 63	very close, electric & little rain at 10, but became fair sunny & very warm from 12 till 4, afterwards hazy & windy. The night the same. 57		Nevo moon 10.17 a.m.	.03
M. 4.	-19 -23	SW 4. SW 3. SW 2.	49 59 66	very warm, windy & hazy, but chiefly bright, dappled & electric, hot afternoon, much hazy cloud, & very red streaked sunset. 58		□ 4 8 2 wren's piped.	
Tu. 5.	-25 -22	SW 1. SW 2. W 2.	43 58 69	very fine, bright, and hot with grey haze, and electric clouds, more thick & hazy all the Evens, and very sultry. 60		unusual heat for the season, and great change.	
W. 6.	-29 -27	SW 1. SW 1. S 2.	44 61 78	very fine, bright, and very hot, 11 a.m. 76°. at 12-76° and from 1 till near 4 p.m. 78, then slowly declined. Hazy Evens but clear night. 63		□ 4 8 2 Cuckoo sang!	
Th. 7.	-16 29.96	S E 1. SSE 2. S E 1.	47 66 77	Very bright, and very hot with a little more wind, Evens hazy, cirri & darker clouds, with lightning in South from 8 p.m. 63		* 0 4 Cherry trees full in blossom! - lightning at eve.	
W. 8.	30.00 29.83	SW 3. SW 4. SW 3.	49 56 65	Dark & thick electric haze, from 6 1/2 a.m., bright, with many clouds till noon, afterwards cloudy & rain from 3 p.m. - Showery evens & night. 55		* 2 8 2 genial rain after the lightning.	13
S. 9.	-65 -75	SW 2. W 4. W 2.	52 60 60	Showers at 1 & 5 a.m., bright with rocky clouds, followed by frequent showers in the afternoon. Evens finer. but a stormy sky. 53		Squally day, & distant Thunder.	07
542.10			392 580	Mean Temp 54° ) Rain cut up 0.50			

# APRIL 1859.

April.	Baro. meter.	Wind.	Thermom. lowest 9 highest	Weather &c.	Thermom. 8pm.	notes.	Rain.
Su. 10.	29.58 -39	S 3. SW 3. SW 2.	47 53 57	Very lowering & little rain at times; followed by shower, and more at a distance, with Thunder in the afternoon. Fine Evens & mostly bright. 48		moon 11.21 a.m. Thunder 5.51. 4 p.m.	.05
M. 11.	-36 -52	SW 2. SW 2. W 2.	39 52 57	Bright morn., follow'd by rocky & dark clouds, distant storms at 12, little flying showers & distant Thunder. Heavy rain 5 p.m.; close Evens. 46		Much Thunder 8 & N.	23
Tu. 12.	-77 -62	NW 3. W 2. SW 1.	37 45 51	Cloudy, and much cooler, with very little sun, and became overcast, cold, and rainy after 7 p.m. and during night. 43		wind to 5.2. at eve followed by much rain.	
W. 13.	-35 -61	Var. 1. N 1. N 2.	40 42 44	Rain hard & continued early till 7 a.m., and more or less rainy all day, and much colder. Fine night, and in part clear. 41		much rain before day and again in the day.	53 30
Th. 14.	-60 -27	SW 1. SE 2. S 5.	35 43 52	Unsettled, much cloud & watery sky. Some sun from 9 1/2 till 12, afterwards hazy & dark, with rain, and a blowing & very wet even 9, & night. 45		very wet and blowing Evens	.04 55
F. 15.	-04 -61	NW 5. NW 5. NW 2.	38 39 47	Blowing & cloudy, followed by drifts of sleet & rain from 8 a.m., and very stormy all day some hail; & sun at times. Evens fair, & less wind. 38		Exceedingly stormy & cold.	13
S. 16.	-67 -76	NW 3. NW 3. NW 2.	33 42 49	Cold wind, cumuli & sun; with some flights of hail at times, and some snow; finer Evens cold and frosty night, & mostly clear. 36		some rain with hail & snow.	.03
Su. 17.	-82 -98	NW 3. NW 3. N 1.	30 41 49 1/2	Frost early, cold but bright morn.; rocky clouds & sun in the day, and a keen wind. Little showers & sleet. 6 p.m. Fine night, hazy & cold. 38		Full moon 9.6 a.m.	.01
M. 18.	-93 -92	NW 1. NW 1. Var. 0.	32 42 48	Cloudy more or less, little falls of hail, & cold, but less wind. Calm Evens and chiefly cloudy. 40			
532.80			331 454.5	Mean Temp 43° 63.8. ) Rain cut up 2.37			



# APRIL 1859.

April.	Baro. meter.	Wind.	Thermometic lowest 9 highest	Thermom. 8pm	Notes	Rain. 2.37
Tu. 19.	29.80	NW. 1.	28		Frost early, bright and fine with rocky cumuli, but a keen air in the shade; fine evening & night, but frosty.	
		Var. 0.	44			
	-73	E 1.	54			
		E 1.				
W. 20.	-68	E 1.	30		Light clouds & sun, fine day mostly sun, but larger cumuli from 11am, and the Evening more & thicker cumuli, - and rather electric.	42
	-65	ESE 2.	46		□ 4 ♀ cross currents SE & NE	
		E 2.	54			
		NE 2.				
Th. 21.	-64	NW 2.	40		Electric & much mixed cloud with sun, few drops of rain from small clouds, but very fine & sunny afternoon rocky cumuli, & cross currents.	45
		NW 2.	49		Cross currents SW & NW.	
	-77	W 1.	54		Dark clouds at 7 & 8 pm.	
		Var. 0.				
F. 22.	-88	NW 2.	30		Clear and continued so. all day, with small cumuli, but a bleak air, and adverse currents. Rather more clouds in the Even. - Cold night.	42
Good Friday.		Var. 1.	48		A remarkable variety of currents at one time near 5 pm.	
	-90	SE 2.	55			
		SE 1.				
S. 23.	-98	E 1.	28		Keen frost early, bright day with cumuli & mixed clouds, and a cold wind. The clouds in two currents, the SE uppermost, dark ribbed beds of cloud all the evening.	42
	30.02	E 3.	49			
		E 3.	52			
Su. 24.	29.91	ESE 3.	41		Cloudy, electric & change, heavy squalls of wind with rain from 8 am, till 11 am, then fair but cloudy & little sun.	08
Easter Day.		ESE 4.	48		Cloudy Even. & less wind.	48
	-90	SE 2.	53			
M. 25.	-95	SE 4.	46		Cloudy wet & blowing, raining heavier from 8 1/2 am, and more or less till 2 pm, then finer but cloudy for a time, Rain again after 5 pm, - and all the Even. hard.	45
	30.05	SE 4.	50		moon last Dr. 4.45 am.	43
		SE 4.	51			47
Tu. 26.	-22	SE 2.	44		Cloudy, cool, & gloomy, the whole day, & inclined to mistle at times; the evening and night also cloudy, and more wind.	03
	-30	E 2.	48		□ 0 R.	
		E 3.	51			
47 8 38			28 7 5	42 4 5	Mean Temp 44.50.	Rain cal' up 3.38

# APRIL 1859.

April.	Baro. meter.	Wind.	Thermometic lowest 9 highest	Thermom. 8pm	Notes	Rain. 3.38
W. 27.	30.26	E 4.	43		Very cloudy, brisk wind, gloomy and cold. - More wind after 12, very blowing & cold, and no sun. The Even. somewhat clearer, but cloudy & windy night.	0
	-08	E 5.	47			
		E 4.	47			
Th. 28.	29.78	E 6.	42		Blowing hard, and cloudy sky more or less, but fine till after 4 pm; then heavy clouds, and little rain, Electric & cloudy even. Rain during night.	03
	-75	E 6.	51			
		E 4.	51			
F. 29.	-82	NE 1.	46		Overcast & rain early, and at times during the day, the air replete with water, with little gleams of sun. Evening fine and night also.	27
	-92	NE 2.	47			
		NE 1.	52			
S. 30.	30.04	NE 2.	42		Cloudy all day, cold, gloomy, and unpleasant, but rather clearer during Evening. - Fine night, and in part cloudy.	08
	-00	E 3.	46			
		E 2.	50			
23 9 6 5			173 200		Mean Temp 4 days 46.625	Total rain 3.76

Barom.	Highest on 1 <sup>st</sup>	30.38	Thermom.	Highest on 6 <sup>th</sup>	78°!
	Lowest on 15 <sup>th</sup>	29.04		Lowest on 1 <sup>st</sup> am	25°
	range	1.34		Range	53
	Mean of Month	29.88		Mean daily range	16.18
				Mean of month	47° 37.5

Winds chiefly S.W., E., & N.W. Fine days 15. Rain 3.76 Inches.

To the 11<sup>th</sup> of this month, a remarkably warm and early spring, and vegetation to that day, earlier than I ever before recorded, but the rest of the month was rather ungenial, greatly checking the progress of vernal scenes. Still it proved a forward time, and considerable rain falling, it added much to the growth of the crops. - The Easterly winds did not set in till the 19<sup>th</sup> and more fully on the 23<sup>rd</sup>. - Scarletina, Cynanche, and Pertussis prevailed much in most districts. Gales on 2 days in this month.



# MAY 1859.

May.	Baro. meter	Wind.	Thermometer lowest 9 highest a.m.	Thermometer 8 p.m.	Weather, &c.	Notes.	Rain.
Su. 1.	29.95 30.02	E <sub>2</sub> NE <sub>3</sub> NE <sub>3</sub>	40 49 52		Mixed clouds, & sun, but a cold breeze continues, and the evening the same as the day. An upper current from the S.E., & clouds in upper & lower.	* H ♀	
M. 2.	-09 -13	E <sub>2</sub> ENE <sub>3</sub> ENE <sub>2</sub>	42 51 55		Cloudy with sun, and very brisk wind. More sun from noon, and rocky cumuli. Clear evening, yellow sunset. Many cirrostrati in S.E.	new moon 10.4 pm.	
Tu. 3.	-08 -06	ENE <sub>2</sub> ENE <sub>3</sub> ENE <sub>2</sub>	35 51 56		Bright & parching, with a few light clouds, and a cool breeze. — some hazy clouds and brisk wind all night.	* H ♂ hawthorn in flower.	
W. 4.	29.98 -92	ENE <sub>2</sub> NE <sub>3</sub> NE <sub>4</sub>	39 51 56		Cirri in thick plumes, rising from SW, & scuds below from ENE. chiefly bright, & windy in the day. The evening more cloudy, & night windy & cloudy.	Δ H ♀	
Th. 5.	30.01 -15	NE <sub>2</sub> NE <sub>1</sub> E <sub>2</sub>	41 48 54		Cloudy more or less, and but little sun, clearer after 3pm. but still cool. Hazy & warmer evening, wind but little. Clear night & cold.	* ♂ ♀	
F. 6.	-21 -23	SE <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	33 54 62		Clear morn'g, fine & bright day, warm & pleasant, with light clouds, and a bright even'g, & clear ☉ set.		
S. 7.	-21 -13	SE <sub>2</sub> SE <sub>3</sub> S <sub>1</sub>	35 59 68		Bright, and very warm, with fresh breeze, & very small electric cirri. Hazy evens, & mixed electric clouds.	Some fog at 5 a.m. Oak in leaf.	
Su. 8.	-17 -35	SW <sub>1</sub> W <sub>1</sub> NW <sub>3</sub> N <sub>1</sub>	50 54 61		Close & rain from 5 till 8 a.m. afterwards fine, with rocky clouds and sun. Even'g quite clear, & very brilliant. Some dusky cirri about the setting sun.	Cuckoo more tune-ful.	28
M. 9.	-38 -36	NW <sub>1</sub> NE <sub>2</sub> ENE <sub>3</sub> E <sub>2</sub>	37 55 63		Clear, and heavy dew, very bright day, with a fresh breeze. Cirri & haze at sunset. in West, & had sun all p.m. and a hazy night.	moon 1 <sup>st</sup> Dr. 5 pm.	
54243		3525285		Mean Temp 48° 9/16. ) Rain cald up. 0:28			

# MAY 1859.

May.	Baro. meter	Wind.	Thermometer lowest 9 highest a.m.	Thermometer 8 p.m.	Weather.	Notes.	Rain. 0.28
Tu. 10.	30.30 -26	NE <sub>1</sub> E <sub>2</sub> E <sub>2</sub>	42 48 54		Cloudy and gloomy all day, very cool, but nearly calm, more wind in the evening, and dark clouds. Closer in the night.		
W. 11.	-36 -42	E <sub>1</sub> E <sub>2</sub> E <sub>2</sub>	46 54 63		Cloudy morn'g, and electric haze cleared at noon, bright & warm afternoon, and a brilliant sunset. Light breeze all night.	Elm in leaf.	
Th. 12.	-40 -35	E <sub>2</sub> E <sub>3</sub> E <sub>2</sub>	41 56 63		Bright with fleecy clouds, and parching breeze. Very clear evening, and rosy sun-set. A breeze all night, & some fog at times.		
F. 13.	-32 -35	ESE <sub>2</sub> ESE <sub>4</sub> E <sub>3</sub>	44 62 65		Bright & parching, and very much warmer, till noon, but rather blustering & cooler p.m. Clear even'g, yellow sunset.		
S. 14.	-30 -24	E <sub>3</sub> E <sub>3</sub> NE <sub>2</sub>	42 59 65		Bright with parching wind, and no cloud, but the cool breeze subdued the solar power. Clear & orange colour-ed sunset.		
Su. 15.	-14 -08	NE <sub>2</sub> NE <sub>4</sub> NE <sub>2</sub>	43 59 62		Bright with small electric clouds, in curled trains, more wind & more mixed clouds after 10 a.m. very electric & a few drops of rain at times. Cloudy night.	Ash in leaf.	
M. 16.	-04 -02	N <sub>2</sub> NE <sub>4</sub> NE <sub>3</sub>	46 57 66		Cloudy, little rain at 6 & 7 a.m. clearer after 9, bright & warm, with rocky clouds, & brisk wind. Even'g cloudy, & misting at times.	Full moon 9-7 pm.	04 03 30
Tu. 17.	29.88 -92	N <sub>3</sub> N <sub>2</sub> N <sub>2</sub>	50 54 55		Overcast, & hard rain at times, all the morn'g, and till near noon. afterwards fine, but continued very cloudy, and a blue fog over the landscape.		
W. 18.	-90 -85	NW <sub>2</sub> N <sub>2</sub> NE <sub>2</sub>	49 54 61		Cloudy & foggy morn'g, and a very close and cloudy day, bright even'g from 5 1/2 till 7, & curled upward. again cloudy from 7 1/2 pm.	* 4 ♀	
54313		4035555		Mean Temp 53° 25. ) Rain cald over. 0.85			



# MAY 1859.

May.	Baro. meter.	Wind.	Thermom. lowest 9 highest a.m.	Weather &c.	Thermom. 8pm.	Notes.	Rain 0.85
Th. 19.	29.87	NE <sub>2</sub>	49	Bright with electric clouds, very warm, but more clouds, and very dark & showery at 12pm. Afterwards again fair till 6, cloudy evenings, & little rain. Foggy during night.	63	Distant Thunder Eastward 4. M.	03
F. 20.	-88	NE <sub>2</sub>	50	Cloudy & foggy morning, cleared after 8am, very rocky & electric with hot sun: great signs of Thunder. Rather foggy in the night.	66	A lovely growing day.	03
S. 21.	30.03	NE <sub>2</sub>	50	Cloudy, much cooler all the forenoon, with dark skies, & more wind. Afternoon rather warmer & clearer, & wind less. Night fine & rather cold.	54	□ ½ ♀	50
Su. 22.	-23	NE <sub>2</sub>	43	Clouds & sun, with cool breeze, but chiefly bright, and very drying; cold evening and almost clear, with little wind, but more clouds during night.	54	This cool air for 2 days caused by 80° H. approaching 16 24 42	49
M. 23.	-22	NE <sub>1</sub>	42½	Cloudy with sun, but soon became very bright, with a parching wind. Very clear and brilliant yellow Sun set.	58		52
Tu. 24.	-11	NE <sub>1</sub>	45	Bright with electric clouds, rocky & towering up, became hot after 12, less clouds, & very bright. clouds rising from West at 6 & 7pm, across lower current.	61	moon last Dr. 10. 49 pm.	57
W. 25.	-06	NW <sub>1</sub>	44	Low clouds & fog at 6am, cleared off at 8½am; very bright & hot from 11am, with rocky cumuli. Clear evening, and calm. The Sun set red, in a cream-coloured haze. Night foggy.	60	80° H ends now	60
Th. 26.	-10	NE <sub>1</sub>	50	Fog till 6am, became bright, & very hot, and very few clouds, none in the afternoon, and brilliant evenings. Sun set as it did on previous evenings.	64	Splendid Spring weather.	60
48175 37355285 Mean Temp 56° 34.3. ) Rain cal'd up 0.91							

# MAY 1859.

May.	Baro. meter.	Wind.	Thermom. lowest 9 highest a.m.	Weather &c.	Thermom. 8pm.	Notes.	Rain. 0.91
F. 27.	30.12	NE <sub>2</sub>	48	Very bright, & hot, with a parching breeze. Sun set orange-tint & dark clouds skirting the SE. - Cloudy night.	65		58
S. 28.	29.94	NE <sub>2</sub>	52	Cloudy, sultry, & electric, upper part of SE, sun gleaming. Very hot afternoon, dark & threatening clouds, & distant Thunder. Very close night. Rocky about setting Sun.	63	How deep of rain. Distant Thunder all day.	64
Su. 29.	-86	SE <sub>2</sub>	53	Fog till 7½am, very hot & bright with electric clouds; distant Thunder, & extreme hot. pon. - Black in SE, all evening, with vivid lightning & Thunder all night.	69	10am 73° 11½am 77° 12 - 79° 2pm 81°	01
M. 30.	-83	Var. 0.	58	Yellow haze, & sun yellow, but afterwards red, with thick blue haze, and very hot & close. Black with Thunder & lightning all the afternoon 8 to 11. Hazy evenings, sunset rose colour.	67	* 0 ½ Thunder in west, from 4 also in S.	62
Tu. 31.	-90	NE <sub>1</sub>	51	Fog early & till 8am, then bright and very hot, a blue electric haze came again after 2pm; dark clouds at eve, and a trifling rain at 9pm.	66	□ ½ ♀	65
29929 262373 Mean temp 5 days 63° 5! ) Rain - 0.93							

## Results June 1859.

Barom.	Highest on 11 <sup>th</sup> 30.42. Lowest on 30 <sup>th</sup> 29.83. range — 0.59 Mean of Month 30.09	Thermom.	Highest on 29 <sup>th</sup> — 81° Lowest on 6 <sup>th</sup> — 33° range — 48° mean daily range 19.51 Mean of Month 55.50
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Prevailing winds NE, & East. - Fine days 27! Depth of rain 0.93.

This was a very fine Spring month, but the Easterly winds kept back the temperature at times, yet all the latter part proved very warm & growing, and brought up the mean to above the average, the highest (except 1857) for ten years past. Much sickness about the country & in towns, especially from diseases of the respiratory organs. — (no gales.)

Dog-rose open on 29<sup>th</sup> & quickly became numerous! —



# JUNE 1859.

June.	Baro- meter.	Wind.	Thermometer lowest 9 a.m. highest.	Weather &c.	Thermometer 8 p.m.	Notes.	Rain.
W. 1.	30.03 29.98	W. Var. o. NE 1.	57 65 74	Sultry & cloudy morning; clearer after 9, very hot & no wind, more electric, & dense rocky clouds af- ter 1 p.m. Thunder & rain a little distance S. & W. - Even 3 heavy. 62		new moon 7.10 a.m.	
Th. 2.	-86 -80	NE 2. ENE ENE 2.	55 65 73	Rain with thunder from 4 a.m. & heavier rain at 9, afterwards sunny & very hot, with much elec- tric cloud. - Close evening, rocky from S, vivid lightning, thun- der, & much rain 9 till 12. - 63		Much thun- der till 9. A.M. - and all Evening. -	30 15 58
F. 3.	-78 -82	E. NE 2. NE 1.	57 65 73½	Close, but bright after 6 a.m., with low clouds, very hot till near 4 p.m. again cloudy, and a very close Evening, and sul- try night. Distant lightning. 64		Do roses abundant for some days. -	
S. 4.	-90 30.00	Var. o. E ½. E ½.	60 66 74	Very sultry & cloudy morning, hot & sunny from 10 till noon, af- terwards close & gentle rain at times. Clearer at 9 p.m. but some rain during night. - 63		Wheat on the ear two days past. -	05
Su. 5.	-03 -14	E 2. E 1. SE 1.	58 62 68	Cloudy & rain early, foggy till 9 a.m. very close day, and fog at times; brighter after 3 p.m. & a sunny Evening, but thunder in West. Close & calm night. 63		Electric clouds in upper cur- rent from SW. -	12
M. 6.	-20 -19	W ½. Var. o. Var. o. SE ½.	56 65 71	Very close, calm, & sultry, dark electric clouds, on many tacks, more sunny at 3 & 4 p.m. but a very cloudy & close Eve- ning & night. - 66		648	
Tu. 7.	-17 -13	Var. o. E 1. E 1.	60 66 74	Exceedingly close, and hot, with mixed electric clouds, and sun. Thunder in West all P.M. - Much curled in the Zenith in the Evening. - 66		moon. 1 <sup>st</sup> Dr. 10.47 p.m.	
W. 8.	-07 -02	NE 1. NE 1. NE 2.	53 68 76	Fog early A.M. - Very bright from 8 a.m. & very hot, so con- tinued till 6 p.m. afterwards much sun and a cool wind from NW from 9 p.m. - 62		wind to NW at 9 p.m.	

480.12 456.5835 Mean Temp 64.978. Rain cald up. 1.20

# JUNE 1859.

June.	Baro- meter.	Wind.	Thermometer lowest 9 a.m. highest.	Weather &c.	Thermometer 8 p.m.	Notes.	Rain. 1.20
Th. 9.	29.90 -92	NW 2. NE 3. NE 2.	57 68 73	Some fog & clouds early A.M., but very hot, & bright after 8, more wind after 12, and electric clouds. Cooler & scudding clouds in the Evening. - Blowing all night. 61			
F. 10.	-84 -78	NE 4. NE 3. NE 2.	55 63 70	Cloudy & blowing morning, clearer from 9 a.m. some electric clouds in upper current & chiefly sun. Again close & cloudy from 4 p.m. and less wind. - 62		6 H 8	2
S. 11.	-73 -87	NE 1. SE 1. SE 1.	57 63 74	Fog & mist at 7 a.m., sultry and close till 10, afterwards bright & very hot, with rocky cumuli. The Evening also brilliant & hot. Rocky on S horizon, also on W. - 67		Wheat fields in full ear. -	
Su. 12.	-93 30.04	E 1. SE 1. W 1. W 1.	53 70 75	Bright, with electric clouds, and very hot, till 10 a.m. black with heavy rain & distant thunder at 11 a.m. bright noon, afterwards very black NW, much thunder, and heavy rain till 3 p.m. Bright Eve. 66		* 1/2 8 much thunder & heavy rain.	32 73
M. 13.	-08 -02	W 1. W 1. W 2.	57 67 74	Very foggy till 9, and close all the forenoon, very hot afternoon, electric clouds, & sun. - and a fine Evening, coppery clouds at sunset. - 66		very red clouds at West.	
Tu. 14.	-08 -17	N 2. NW 3. NE 1.	53 59 63½	Cloudy morning, much cooler breeze, some sun after 9, very bright noon, and fine sunny afternoon. - Clear & cool Evening, and ve- ry nearly calm. - 55			
W. 15.	-12 -01	W 1. W 2. W 0.	49 62 72	Cloudy morning but became bright from 8 a.m. very bright all the rest of the day, & pleasant heat with a fresh breeze. - Close Eve- ning, and dappled sky. - 65		Full-moon. 10.18 a.m.	
Th. 16.	29.97 30.11	W 2. NW 3. NE 3. NW 0.	52 62 65	Bright, with heavy cumuli clouds in rocky groups, and a cool breeze. - Very brilliant Evening & sun set in full lustre. - Twilight very strong all night. - 57		Flower gardens in highest beauty. Showers in Norfolk to day.	

470.57 433.5665 Mean Temp 62.468. Rain cald over 2.25



# JUNE 1859.

June.	Baro. meter	Wind.	Thermometer lowest 9 highest	Weather, &c.	Thermometer 8pm.	Notes.	Rain 2'25
F. 17.	30.13 -23	NW. E. E.	45 64 71	Clear & dewy morn'g, very bright till 1pm, with rocky clouds, wind veered & more cloudy from 2pm. Sun set red in clouds & haze.	59	wind veered at 2pm.	
S. 18.	-27 -21	W. W. SW.	48 64 75	Cloudy, till 9am, then bright, with electric dappled clouds, and very hot. Day sultry evening, with dark clouds, and the same all night.	69		
Su. 19.	-21 -15	W. Var. SE.	58 66 69	Very sultry morn'g, close day, much haze & rocky electric clouds, very little sun, but continued sultry. Evens clearer, and not so close.	65		
M. 20.	-05 29.98	SE. S. SW.	56 63 67	Fog early, & soon cloudy with rain few drops, & blue haze with dark atmosphere. Lowering & rainy after 3pm, and till 5; finer Evens.	57	wind to NW at 3 1/2 pm.	23
Tu. 21.	30.03 -07	NW. NW. W.	51 60 67	Bright, with flying clouds, and rocky cumuli, with a cooling breeze. Very bright Evens, and less wind. Some clouds in the night.	61		
W. 22.	-09 -07	W. SW. SW.	56 69 77	Bright, with electric cumuli, & very hot: more close and sultry all the afternoon, and evening, with a hot breeze, and a very breezy night.	69		
Th. 23.	-11 -20	W. W. W.	58 65 71	Windy with flying clouds, and hot sun; less wind after 3pm, electric and curdled in the Evens; very fine and pleasant.	62	MOON last Dr. 2.32pm.	
F. 24.	-22 -24	W. W. SE.	51 65 70	Bright with fleecy clouds, pleasant and moderate heat, and scarcely any wind in the afternoon. A few dappled cloud from S, at eve, and wind veered there.	64		
S. 25.	-21 -16	S. SSE. SE.	49 70 78	Bright and very hot, with a parching breeze. Curri rising in sheets from SW, after 2pm and dappled Evens. Bright cloudy & Sun 6pm.	68		
54263			472 645	Mean temp 62° 055.			Rain cal' up - 2'48

# JUNE 1859.

June.	Baro. meter	Wind.	Thermometer lowest 9 highest	Weather, &c.	Thermom. 8pm.	Notes.	Rain. 2'48
Su. 26.	30.03 -18	SE. SSE. S.	61 70 80	Hazy, electric, & very hot, with distant Thunder westward, more sun from 2pm, and oppressive heat. Sharp lightning & Thunder all night. Rain 2pm.	75	Thunder in West 7 & 10 am. & again 1pm.	17
M. 27.	-27 -31	S. SW. SE.	64 1/2 72 81	Much Thunder & lightning till 4 am, some rain: bright and very hot from 8 till 1pm then close & oppressive. Hazy and electric. distant Thunder in P.M.	72	* 1/2 9 Thunder morning and night again	05
Tu. 28.	-17 -05	SE. E. Var. E.	62 68 73	Rain with distant Thunder, and lightning - from before 1 till 5 am fine in the day till 1 1/2 pm, very hot, dark clouds, much Thunder, and rain at times. Fine Evens but very close.	68	6 1/2 8 Thunder all day more or less.	43 2
W. 29.	-15 -27	W. WNW. W.	57 60 70	Cloudy morn'g, and cooler, bright & pleasant afternoon, with light clouds, and very warm sunny Evening. - Fine night.	64		
Th. 30.	-27 -29	W. N. NE.	50 67 69	Bright morn'g, and the same till 11, then electric, and many mixed clouds, and more wind. Cloudy and cool evening.	59	MOON 2.41pm.	
30199			2945 373	Mean Temp 5 days 66.75		Total rain	3'25

## Results June 1859.

Barom.	Highest on 27 <sup>th</sup> - 30.31. Lowest on 11 <sup>th</sup> - 29.73 range - 0.58 Mean of Month 29.92	Therm.	Highest on 27 <sup>th</sup> - 81°. Lowest on 17 <sup>th</sup> - 45° range - 36° Mean daily range 17.08 Mean of Month 64.06
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Prevailing winds W, NE, & SE; Fine days 24, and yet 3'25 of rain.

This was a charming month, the heat much above average, and fruitful showers with it, so as to produce abundant hay-crops, and rich prospects in the corn-fields. Flower-gardens profuse in loveliness, and public health good. - No gales this month.



# JULY 1859.

July.	Baro- meter	Wind.	Thermometer lowest 9 a.m.	Thermometer highest 8 p.m.	Weather, &c.	Notes.	Rain.
F. 1.	30.25	NE <sub>1</sub> NE <sub>1</sub> E <sub>2</sub>	56 62 70		Cloudy morning, and more or less so all day, but gleams of Sun after 1 p.m., and close air. Evening and night cloudy, and warm breeze.		
S. 2.	-33	E <sub>2</sub> E <sub>2</sub> E <sub>1</sub>	56 65 71		Grey clouds & Sun, brighter after 12, and hot, with a drying breeze. Very bright Even and small electric detached clouds. dark and hazy in A.M.		
Su. 3.	-25	SE <sub>1</sub> Var. 0. Var. 0. NE <sub>2</sub>	57 69 74		Sharp lightning, thunder & rain 1 a.m., & lightning with loud thunder till 3 a.m. - Very hot and sultry day, little sun, & much cloud, - all in cross currents, Thunder & lightning at 11 & 12 night.	Sharp lightning & loud thunder 1 to 3 a.m. & again at 11 p.m.	.28
M. 4.	-27	NW <sub>1</sub> NW <sub>2</sub> W <sub>1</sub> W <sub>0</sub>	60 65 72		Severe thunder storm from midnight till 2 a.m., foggy morning, clearer at 9, gradually more so till it became bright at 3 p.m., & a very brilliant, and hot Even. - Most on wales.	Thunder storms till 2 a.m. - Purest golden sunset.	.20
Tu. 5.	-45	WNW <sub>1</sub> W <sub>1</sub> W <sub>0</sub> SE <sub>1</sub>	58 71 78		Bright, and extremely hot, few small cumuli, and very little wind. Evening the same, but more electric, and somewhat hazy very fine night.	A most charming summer's day.	
W. 6.	-49	Var. 0. SSE <sub>1</sub> SE <sub>1</sub> SE <sub>0</sub>	56 75 82		Fog early, soon bright, and excessively hot, with electric cumuli; very hazy Even, and dark electric portions of cloud, fine night, but distant lightning.	distant lightning during night.	
Th. 7.	-37	S <sub>1</sub> SSW <sub>2</sub> SW <sub>2</sub> W <sub>1</sub>	61 76 83		Bright and excessively hot, by 10 a.m. 81°, 11 a.m. 83°, and so for 4 hours. Some electric beds of cloud, and mottled cirrostrati all the Even.	moon 1 <sup>st</sup> 2 <sup>nd</sup> 5.54 a.m. distant lightning in the night.	
424.89		404.530		Mean Temp 66° 7/14. Rain cal up - 0.48			

# JULY 1859.

July.	Baro- meter	Wind.	Thermometer lowest 9 a.m.	Thermometer highest 8 p.m.	Weather, &c.	Notes.	Rain.
F. 8.	30.33	NW <sub>1</sub> W <sub>1</sub> SE <sub>2</sub> E <sub>1/2</sub>	62 75 81		Light clouds but bright, and excessively hot; electric & rocky clouds followed, with distant rains, but close and hot, with a very red sunset.	Shower at 2 a.m. at a little distance, also 5 a.m. but none here!	
S. 9.	-35	NE <sub>1</sub> Var. 0. SE <sub>2</sub> SE <sub>0</sub>	57 73 77		Very bright morning, and very hot, continued so, but more clouds and in cross currents. Even, bright, and rosy sunset.	Woods noisy & playful.	
Su. 10.	-39	SE <sub>1/2</sub> SE <sub>1</sub> SE <sub>1/2</sub>	53 73 81		Bright, and extremely hot, with light cumuli, and a gentle air. Evening somewhat hazy but bright, and still very hot.		
M. 11.	-42	SE <sub>1</sub> SSW <sub>1</sub> SW <sub>2</sub> SSE <sub>1</sub>	61 78 88		Thin haze, but bright, and excessively hot; gentle wind at times; more hazy, and cirri clouds after 4, and all the Evening. - Very close all night. - old C. set.	10 a.m. 83° noon 87° 2 p.m. 88°! 4 p.m. 85° 5 p.m. 83° 6 p.m. 80°	
Tu. 12.	-29	S <sub>1</sub> SW <sub>2</sub> SW <sub>1</sub> NE <sub>2</sub>	63 81 92		Bright & dappled sky, continued very bright, and most excessively hot, stood 92 near 2 hours, & at 6 p.m. fell only 4 degrees. - Sun set very rosy in thin haze.	10 a.m. 85° 11 a.m. 88° 2 p.m. 90° 3 p.m. 92° 4 p.m. 90° 5 p.m. 89° 6 p.m. 88°	
W. 13.	-33	E <sub>1</sub> SW <sub>2</sub> SW <sub>3</sub> NW <sub>3</sub>	61 79 91 1/2		Scattered and clouds at rise. very bright and excessive heat continues, some cumuli in the P.M. - Hazy at sunset. Electric clouds from SW, but w. to NW from 5 p.m. - fine night.	6 h. 8° noon 89° 1 p.m. 91 1/2° 4 p.m. 89° 5 p.m. 87° 6 p.m. 83°	
Th. 14.	-41	NW <sub>1</sub> N <sub>1/2</sub> SE <sub>2</sub> SE <sub>1</sub>	56 71 77		Bright with cumuli clouds, & less hot. More cloudy & wind veered about, and more electric. Very curdled & dappled with singular variety of cloud all the Even.		
425.06		414.5875		Mean Temp 71° 53/6. Rain cal over 0.48.			



# JULY 1859.

July.	Baro- meter.	Wind.	Thermometer Lowest 9 Highest	Thermom. 8 pm.	Notes.	Rain. 0.48
F. 15.	30.39	W <sub>1</sub> . SW <sub>1</sub> . W <sub>2</sub> . W <sub>0</sub> .	56 71 78.2		Electric clouds & sun, very hot & close, dark haze all noon, & very sultry & thick afternoon, with gleams of sun. Hot. Evening and sun set in electric banks of cloud. - Night clearer.	Full moon 1 a.m.
S. 16.	-38	NW <sub>1</sub> . W <sub>1</sub> . W <sub>2</sub> . W <sub>0</sub> .	59 74 84		Bright, & extremely hot, with a few light clouds, & gentle air. Oppressive evening, no wind and sun set in purest lustre in cream coloured haze. - The heat again increasing.	The heat much greater all the evening. 10 pm 72.
Su. 17.	-27	W <sub>1</sub> . SW <sub>2</sub> . SW <sub>2</sub> . S <sub>1</sub> .	62.3 81 90		Bright with a very hot breeze, continued bright, & excessively hot. A few light clouds, more electric in the evening, cirri & other clouds, & oppressive heat. - 10 pm Therm at 75°! Exceedingly hot night.	10 am 85.2 11 am 87 12 - 89 1 pm 90. 4 pm 88. 7 pm 83.
M. 18.	-01	SW <sub>1</sub> . SW <sub>2</sub> . SE <sub>1</sub> . SE <sub>1</sub> .	64 82 93		Bright and most excessively hot, some small lumpy electric clouds & haze from 2 pm; and a severe thunder storm from 11 pm till long after midnight. Continual & vivid lightning & loud thunder. -	10 am 86. 11 - 89. 2 pm 93! 7 pm 83. 10 pm 75. Thunder storm 4 hours, & till near 3 a.m.
Tu. 19.	30.03	SE <sub>1</sub> . SW <sub>2</sub> . SW <sub>1</sub> . W <sub>0</sub> .	66.2 77 84.2		Thunder storm till near 3 a.m. Some rain again at 6 a.m. then bright & very hot, with rocky, towering clouds, heavy shower of large drops 1 1/2 pm: again very hot & bright, & clear sunset.	37 05
W. 20.	-19	SE <sub>1</sub> . SE <sub>1</sub> . S <sub>5</sub> . Var. 0. SE <sub>2</sub> .	61 79 83		Thunder SW. beam, very electric, & excessive heat continued: but constant thunder till noon, ending with a very heavy storm, vivid lightning & sharp thunder till near 1 pm. bright & very hot P.M. - Then die in SW again at 5 pm.	62 72
Th. 21.	-15	E <sub>2</sub> . ESE <sub>2</sub> . SE <sub>2</sub> . SE <sub>1</sub> .	60 70 78		Foggy, followed by rain at 8 a.m. & till 9 a.m.; cross currents & sultry air: bright and very hot afternoon, with electric cumuli: very bright evening, and still very hot. - Fine & warm night.	60.8 Distant Thunder all the morning. 73

422.63 429.591 Mean Temp 72° 58.7. Rain cal up 1.70

# JULY 1859.

July.	Baro- meter.	Wind.	Thermom. Lowest 9 Highest	Thermom. 8 pm.	Notes.	Rain. 1.70
F. 22.	30.10	SW <sub>1</sub> . SW <sub>1</sub> . SSE <sub>1</sub> . E <sub>0</sub> .	60 74 83		Bright and extremely hot, with electric cumuli; hazy and dark in P. all the evening, and red sky with rocky clouds, cirri up-wards, and distant lightning in the night. -	Distant lightning in the night. 73
S. 23.	-00	NE <sub>1</sub> . NE <sub>2</sub> . NE <sub>1</sub> .	62 68 68.2		Cloudy, & close, followed by heavy rain from 9 1/2 am, and ending with gentle rain at noon. Fine afternoon & evening, but cloudy & much cooler. Thunder SW - all the forenoon.	MOON last Dr 3. 26 am. 42 Distant Thunder all morns. 62
Su. 24.	-23	NW <sub>2</sub> . N <sub>2</sub> . N <sub>1</sub> .	55.2 62 66.2		Clouds & sun; little rain a few minutes 10 am: fine with many clouds but chiefly sun from 2 pm. with cooler air. Evening very clear and much cooler. Clear & dewy night.	gradually clearing off all from 4 am much cooler. 60
M. 25.	-30	Var. 0. SW <sub>2</sub> . SW <sub>1</sub> . S <sub>1</sub> .	48 67 75.2		Clear & heavy dew, very fine hot day, with mixed clouds, and very little wind. More cloudy in the evening, but fine, and pleasant. Night closer. -	66
Tu. 26.	-26	W <sub>1</sub> . W <sub>2</sub> . SW <sub>0</sub> .	61 73 78		Light clouds, & sun, very hot, and closer with haze in the afternoon, and very sultry. The evening more so, and calm, with electric sky. Day hot night.	72
W. 27.	-20	SW <sub>1</sub> . SW <sub>2</sub> . W <sub>2</sub> . W <sub>1</sub> .	64 72 79		Sultry & hazy, much electric cloud but very hot, and brisk wind at times. Close and cloudy evening. Few rain drops. Very sultry heat all night, and soft breeze.	gold & crimson clouds about the setting sun. in hands horizontally. 74
Th. 28.	-23	W <sub>1</sub> . WSW <sub>2</sub> . W <sub>3</sub> . Var. 1. E <sub>1</sub> .	64.2 75 84		Exceedingly hot, with electric clouds, but chiefly bright, and a brisk wind at times; many mixed clouds in the evening & wind veered about to Eastward. Very sultry & cloudy night. - Very distant lightning in P.	The heat again increased. 72

422.69 415.5345 Mean temp 67° 82.1. - Rain cal over 2.13



# JULY 1859.

July.	Baro. metes	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8pm.	Notes.	Rain
F. 29.	30.18	SW $\frac{1}{2}$ . Var. 1. E 2. SE 2.	64 64 74	Sultry, cloudy, & close, followed by rain at 8 to 9 am; finer afterwards, and bright, hot afternoon with many clouds on opposite sides. Very dark clouds & haze all the Even <sup>g</sup> . Close night.		New moon 9.44 pm.	.12
S. 30.	-12	SE $\frac{1}{2}$ . SE 1. SE 1.	61 $\frac{1}{2}$ 66 71 $\frac{1}{2}$	Rain at 2 am, close morning, very rocky & threatening, but fine, with hot sun all the afternoon. Much cirrus & haze at sunset over all the sky. - Close night.		* O H	.17
Su. 31.	29.80	S 3. SW $\frac{5}{8}$ . SW $\frac{1}{4}$ . W 2.	62 70 79	Overcast, rain, & warm breeze at 6 to 8 am, then fair & sunny, very hot, with flying clouds, and blustering wind. Very clear & bright Even <sup>g</sup> , some wind all night & not so clear.			.11

180.17

187.52245

Mean Temp 3 days 68° 66. - } Rain 2.53

Results, July 1859.

Barom <sup>r</sup>	Highest on 5 <sup>th</sup> - 30.49	Therm <sup>m</sup>	Highest on 18 <sup>th</sup> - 93°
	Lowest on 31 <sup>st</sup> - 29.80		Lowest on 25 <sup>th</sup> - 48
	range - 0.69		range - 45
	Mean of Month 30.249		Mean daily range 20.25
			Mean of Month 69° 60!

Thine days 24. Rain 2.53 Inches. Prevailing winds SE, SW, & W.

This month will stand on history's page, as most notable for its excessive heat, the mean temperature exceeding that of any other month, recorded in England, it was full 6  $\frac{1}{2}$  degrees above the average, and 11 or 12 above that of some years! Many persons died in London, and other parts of the Kingdom from the effects of the extraordinary heat during the month, and some cases were sudden, struck down by the solar rays, and dead in a few minutes, others lingered a few hours, and died from exhaustion. Diarrhoea also was prevalent & fatal in London. - Corn harvest began about the 21<sup>st</sup>, and much of the crops good, but some was light in grain. No gales this month.

# August 1859.

Aug <sup>r</sup>	Baro. metes	Wind.	Thermometer lowest 9 highest	Weather &c.	Thermom. 8pm.	Notes.	Rain.
M. 1.	30.00	WSW $\frac{3}{8}$ . SW $\frac{1}{4}$ . SW 2.	58 69 75	Light clouds & warm breeze, continued windy with hot sun, but a stormy mixture of clouds. Clearer evening, less wind, and fine night.			
Tu. 2.	-20	SW 2. W 2. SW 0.	55 69 74	Bright with light clouds, and pleasant breeze, more hazy from 12 noon, but again bright & hot. Lovely Even <sup>g</sup> , calm & soft, with electric clouds.			
W. 3.	-20	SW $\frac{1}{8}$ . SW $\frac{1}{8}$ . S 2. S 1.	55 72 80	Bright with small electric clouds, and very hot, more wind in the afternoon, & rather gusty. Dark haze, & very electric dotted clouds at eve. Sultry & hazy all night. - Distant lightning.		* H $\frac{1}{8}$ Brilliant coloured Pachelia, &c. 6.25 7 pm.	
Th. 4.	29.99	S 2. SW 2. SW $\frac{5}{8}$ . SW 2.	63 71 76	Very electric & few drops, sultry & lowering morn <sup>g</sup> . Short heavy shower with thunder 8 $\frac{1}{2}$ am, afterwards fair, bright & windy, but hot, and the Evening bright, with less wind.		Thunder 8 $\frac{1}{2}$ am, to 9 am, - West. & NE, with the storm wind. by. -	.19
F. 5.	-17	SW 2. SW $\frac{3}{8}$ . SW $\frac{1}{8}$ .	54 69 76	Bright with light clouds, and fresh breeze, but still hot. - fresh squally after 1 pm, distant showers, and thunder in NE. 6 pm. but fine here.		MOON - 1 <sup>st</sup> Dr 3.22 pm. Thunder in NE - 6 pm.	
S. 6.	-25	SW $\frac{1}{8}$ . SW 2. SW $\frac{1}{2}$ . S 0.	52 67 75	Bright with flying cloud, and drying breeze, but still hot. Afternoon close hazy, & cloudy, and a cloudy Even <sup>g</sup> , with a few drops. - Close night.			
Su. 7.	-04	SE $\frac{1}{8}$ . SW 2. SW 2. S $\frac{1}{2}$ .	61 68 75	Little rain at times from 1 am, lowering & close, but fine and very hot, & more so after 1 pm. Even <sup>g</sup> cloudy, electric & sultry. very knotty dark & mottled trains of cloud from SW. -		Distinct lightning during the night.	.20
421.69			398 531	Mean Temp 66° 35.7. -		Rain cal <sup>d</sup> over - 0.39	



# AUGUST 1859.

Aug.	Baro. meter	Wind.	Thermometer lowest 9 highest am	Thermom. 8pm.	Notes.	Rain. 0.39
M. 8.	29.91	SW <sub>1</sub> SW <sub>2</sub> NW <sub>2</sub> NE <sub>2</sub>	64.2 69 72		Very sultry & thick, lowering and little rain, ending with heavy shower 11am; fine afternoon, cloudy & little sun. distant Thunder all P.M. —	17
Tu. 9.	-15	NE <sub>2</sub> NE <sub>3</sub> ENE <sub>2</sub>	57 61 66		Rain at times from 3am, cloudy & much cooler, but fine till 4pm. little sun. Cloudy & dripping Evening, but clear in the North. —	11
W. 10.	-19	ENE <sub>2</sub> NE <sub>3</sub> NE <sub>2</sub>	55.2 61 63		Overcast, and raining at times, very gloomy, lowering, and cool. — Even clearer, and more fair. Less wind, and the night fine, and warmer, but cloudy more or less. —	15
Th. 11.	-20	NE <sub>2</sub> E <sub>1</sub> SE <sub>2</sub>	58 65 69		Thin clouds, & sun, pleasant & calm morn; close day, much cloud, but no wind, & very warm; Clearer Evening, and a lovely night. — Mist on the valleys. —	
F. 12.	-17	SE <sub>1</sub> SW <sub>1</sub> SW <sub>0</sub>	52 70 79		Close & fog early, very bright from 6am; continued very fine bright, and very hot, with small clouds, & little or no wind. Splendid evening, and moon red & clear. —	*III ♀
S. 13.	-13	SE <sub>1</sub> S <sub>1</sub> SSE <sub>2</sub> SSE <sub>1</sub>	58.2 73 80		Very bright with light clouds, and very hot; the heat was greatest after 3pm; and a very hot & brilliant Evening, more hazy in the night. —	Full moon 4.34pm.
Su. 14.	-03	SSE <sub>1</sub> S <sub>1</sub> W <sub>2</sub> W <sub>0</sub>	63 70 72		Sultry and hazy, much electric cloud in varied forms; Thunder in S, at 9am; heavy shower at noon, much thunder before & after it; but cleared up at 2pm, bright afternoon. — Evening also bright. —	looks very noisy at 5am. — Thunder at 9 in S. — afterwards W. & SE.
42165		4085501		Mean Temp 64° 964.) Rain cal' up 1.16		

# AUGUST 1859.

Aug.	Baro. meter	Wind.	Thermometer lowest 9 highest am	Thermom. 8pm.	Notes.	Rain. 1.16
M. 15.	29.82	SSE <sub>2</sub> SE <sub>2</sub> NW <sub>6</sub> NW <sub>1</sub>	56 61 67		Red sky early, rain at 6, and at times hard all the morn; clear at noon: distant Thunder in S, very blowing & cooler afternoon. but wind ceased at 6pm. — Sunny Even, and fine night. —	Thunder in S, at 1pm. — wind changed soon after.
Tu. 16.	-20	NW <sub>2</sub> NW <sub>2</sub> SW <sub>1</sub>	52 65 72		Clear, very fine bright, and warm, less wind in the afternoon; close evening, and dark mottled clouds. — Hazy and thick night. —	
W. 17.	-30	SW <sub>1</sub> W <sub>1</sub> Var. o.	59 63 66		A shower at 4am; fine from 6 to 8, afterwards overcast and thick light rain at times, and some heavier at 1pm, afterwards foggy, close, & misting. — and close night. —	
Th. 18.	-26	SE <sub>1</sub> SE <sub>1</sub> SE <sub>2</sub>	62.2 65 68		Sultry, dark, & misting, but finer after 12, a very close day, and no sun, rather clearer in the Evening, and fine night. —	
F. 19.	-29	SE <sub>1</sub> SE <sub>1</sub> SE <sub>0</sub>	60 71 78.2		Hazy, & close, & sultry morn, slowly cleared off, and became very hot & sun bright. The Evening also bright, hazy, on horizon, & very hot. —	δ η δ a powerful aspect of Planets.
S. 20.	-35	SE <sub>0</sub> S <sub>0</sub> SE <sub>0</sub> SE <sub>2</sub>	56 72 83.2		Very bright all day, no wind, and extremely hot. Some cirri & thin haze in the Even, with electric clouds in West at sunset. — Distant lightning W. 11pm. —	δ η ♀ 83.2 till 3pm. — 4 at 5pm 80°.
Su. 21.	-34	W <sub>1</sub> NW <sub>3</sub> NW <sub>3</sub> N <sub>2</sub>	60 65 69		Mixed electric clouds, and soon became hazy, & more vivid; pleasant day, and a sunny afternoon, with flying clouds. — Clear and cooler evening, and night. —	δ δ ♀ moon last Dr 1.46pm.
42349		4055504		Mean Temp 64° 964.) Rain cal' over 1.95		



# AUGUST 1859.

August	Baro- meter	Wind.	Thermometer lowest 9 highest	Weather, &c.	Thermometer 8pm.	Notes	Rain. 195
M. 22.	30.45 -40	W <sub>1</sub> W <sub>1</sub> W <sub>0</sub>	52 67 83	Very bright, and sudden return of heat: continued all day, very bright, & extremely hot in the afternoon. - Sun set in full golden lustre. -	83° from 2 to 3pm. 72		
Tu. 23.	-33 -27	W <sub>1</sub> W <sub>1</sub> SE <sub>1</sub> SE <sub>1</sub>	55 71 81	Very bright, and extremely hot, but hazy & electric all the evening, cirri & mixed clouds from SW, and all round West from S to N. - Close night. -	extensive bed of cirri in haze, with electric, & mottled clouds - all evening. 72		
W. 24.	-22 -12	SE <sub>1</sub> SE <sub>2</sub> SE <sub>1</sub>	60 73 83	Hazy & electric, but soon bright and extremely hot; rather more wind after 12 noon. Sun set in beds of cirri, rather hazy night. Distant thunder all the P.M. -	83° at 12. & rose no further. Distant electric clouds. - 70		
Th. 25.	29.98 -95	SE <sub>1</sub> S <sub>2</sub> SSE <sub>1</sub> SSE <sub>1</sub>	62.2 78 90	Bright, and excessively hot, gentle wind, & few light clouds, dark electric clouds all the evening, and distant thunder, and lightning. - Excessively hot all night, and some rain. -	11am 84° noon - 89° 2pm 90° 5pm 87° 9pm 77° Thunder & lightning. 79		
F. 26.	-93 -92	SW <sub>2</sub> SE <sub>1</sub> SE <sub>1</sub>	67 70 73	Rain at 2 am, oppressive, sultry, air, close day, and cloudy more or less, with a little rain at times towards evening. Clearer after sunset, the night rather foggy. -	69		26 85
S. 27.	-98 30.02	W <sub>2</sub> SE <sub>2</sub> SE <sub>2</sub> SE <sub>0</sub>	61 67 74.2	Fog till after 9 am, fine day sultry, and much cloud, with sun at times. Very electric and close evening, blue haze & rocky clouds. Much light raining in the W and N. -	lightning all night. NW and N. - 70		
Su. 28.	-05 -14	W <sub>2</sub> W <sub>2</sub> W <sub>1</sub>	58 62 63	Cloudy, with thick blue electric haze, the same more or less till near 4pm, then clear, and a bright evening, quite calm at sun set. - Mist on the valleys. -	new moon 5.13 am. Brilliant Aurora all night. 60		

42176 41555475 Mean Temp 68° 785. Rain Exp 2.26

# AUGUST 1859.

August	Baro- meter	Wind.	Thermometer lowest 9 highest	Weather, &c.	Thermometer 8pm.	Notes	Rain. 2.26
M. 29.	30.05 29.74	SW <sub>2</sub> S <sub>4</sub> S <sub>4</sub> SW <sub>5</sub>	55 69 73.2	Clear & little breeze, but soon very hot & electric, with flying clouds and gusts of wind. Very stormy night and great squalls of wind and rain 9 & 10 pm. - Finer in the night. -	64	very squally evening.	25
Tu. 30.	-71 -67	SW <sub>3</sub> SW <sub>2</sub> SW <sub>2</sub>	51 60 65	Much cooler, but bright with cirri scuds, & wind; very squally from 11 am, hazy but short showers, and sun at times. Finer evening, but a very stormy sky, and fall line temperature. -	55	lightning in South all evening.	11
W. 31.	72 -70	SW <sub>2</sub> SW <sub>4</sub> W <sub>3</sub>	49 57 61	Showery, dripping sky, blowing unsettled, and very much colder than for many weeks past. Finer evening, but cloudy more or less. -	55	☐ ☉ ☿	04
17859		1551993		Mean Temp 3 days 59° 08. - Rain 2.66			

## Results for August 1859.

Baromet.	Highest on 22 <sup>nd</sup> - 30.45	Thermom.	Highest on 25 <sup>th</sup> - 90°
	Lowest on 30 <sup>th</sup> - 29.67		Lowest on 31 <sup>st</sup> - 49.
	range - 0.78		range - 41
Mean of Month, 30.11.		Mean daily range - 16.33	
		Mean of Month - 65.57	

Rain 2.66 - Inches. Fine days 18. Winds chiefly SE, and SW.

This also was a very hot month, but less so than July, and some refreshing showers at times; the corn harvest being begun at least 10 days later than it might have been, caused much unnecessary delay in closing, and whereby much was injured by wet in many places. - The wheat a good average, barley not so, and a great bulk was sprouting before & after being cut. - Beans & peas a better crop than in previous years, but not a great yield. - One gale in this month.



# September 1859.

Sept.	Baro- meter	Wind.	Thermom. lowest 9 highest	Weather, &c.	Thermom. 8 pm.	Notes.	Rain.
Th. 1.	29.71	SW <sub>2</sub> WSW <sub>3</sub> W <sub>1</sub>	48 57 63	Scuds, wind, & sun, chiefly fine but showers at a distance; the Evening clearer, less wind, and a fine serene night. But little rain here all day. —	56	698	.02
F. 2.	-93 -80	W <sub>2</sub> SW <sub>2</sub> SE <sub>4</sub>	51 60 66	Mottled & ribbed clouds, with sun more cloudy after 12, darker, and strong blue haze, with rain at 2 pm. Very stormy wind with rain the rest of the Day. —	60	Blowing and with Evening.	.23
S. 3.	-95 30.07	W <sub>2</sub> W <sub>2</sub> W <sub>0</sub>	56 63 71	Cloudy morning, bright and hot day, cumuli clouds, and very little wind. Fine Even- and night, and chiefly clear, and dewy. —	61		
Su. 4.	-15 -21	NW <sub>1</sub> W <sub>0</sub> NE <sub>1</sub>	50 64 69	Very fine and bright, with cumuli clouds, and hot in the afternoon, with little or no wind. Dark rocky clouds all the Even- N, and E: — Night clearer. —	58	moon 1st Dr 4.5 am.	
M. 5.	-29 -26	NW <sub>1</sub> Var. 1 SE <sub>1</sub>	48 62 68	Clear morning, and chiefly bright all day, with cumuli clouds, Evening hazy, and many clouds. — Closer all night and more wind. —	58		
Tu. 6.	-10 29.88	SE <sub>2</sub> S <sub>4</sub> SW <sub>3</sub>	53 63 68	Hazy, electric, & more winds, very warm, & sun at times, but very squally with flying rain in short showers. — Night in part clear. —	61	□ 889	.04
W. 7.	-95 30.05	SW <sub>2</sub> W <sub>4</sub> W <sub>1</sub>	52 61 66	Chiefly fair & sunny, but very windy, and much mixed cloud. Evening and night close, and some clouds, but fine. —	62		
Th. 8.	-12 -70	W <sub>2</sub> SW <sub>2</sub> SW <sub>2</sub>	54 61 72	Mixed clouds, & close, with sun between, fine and hot day: very hazy after 4 pm, squally even- and few drops of rain. — Very sultry and close night. —	66	688	.01
480.34			412 544	Mean Temp 59.75. ) Rain cal up .030			

# September 1859.

Sept.	Baro- meter	Wind.	Thermom. lowest 9 highest	Weather, &c.	Thermom. 8 pm.	Notes.	Rain.
F. 9.	29.97 30.05	SSW <sub>4</sub> SW <sub>5</sub> W <sub>3</sub>	61 67 70	Very sultry & wind squally, flying shower at 1 pm, afterwards fair bright & hot, but windy. Evening chiefly clear, Aurora & moon both bright. —	61	Aurora bright in NW. 8 & 9 pm.	.05
S. 10.	-14 -24	W <sub>3</sub> NW <sub>4</sub> NW <sub>2</sub>	52 60 64	Clear, cooler wind, flying clouds, and parching day, very blowing but fine, and mostly sunny. — Clear night, but somewhat hazy and not much dew. —	57	very blowing	
Su. 11.	-37 -40	WNW <sub>2</sub> WNW <sub>2</sub> NW <sub>0</sub>	50 57 67	Clear morn- but cloudy & little rain at 9, cold for a short time, afterwards bright, warmer, and light clouds. Even- bright, serene, and calm. Very brilliant moon-light night. —	59	wind ceased after 2 pm.	
M. 12.	-38 -21	NW <sub>1</sub> W <sub>0</sub> SE <sub>1</sub>	45 59 68	Clear and much dew, very bright morn- much warmer, after 9 am, hot afternoon, calm, with light clouds. Even- hazy, and electric. Close night, & signs of storm. —	59	Full moon 8.31 am.	
Tu. 13.	29.95 -88	SE <sub>1</sub> SW <sub>3</sub> W <sub>2</sub> SE <sub>1</sub>	54 61 61	Very electric mixed clouds in two currents, followed by heavy showers at 10 am, still near 11: cleared off at 12, fine afternoon & chiefly sun. Cold even- hazy & some clouds. —	54	* 04	.21
W. 14.	-72 -74	ESE <sub>2</sub> E <sub>3</sub> NE <sub>3</sub>	46 57 57	Clouds & rain after sunrise, very squally sky, and frequent rain during the whole day, with very little sun, and much cold. — Clearer at night after 9 pm. —	53	688	.25
Th. 15.	-75 -71	NE <sub>1</sub> NE <sub>1</sub> NE <sub>1</sub>	50 57 62	Cloudy & some rain: frequent dark clouds & showers from East, and bright at times: a very unsettled and dripping day. — Evening rather finer. —	53		.19
F. 16.	-61 -65	NE <sub>1</sub> NE <sub>2</sub> NE <sub>2</sub>	49 60 64	Many clouds, & stormy sky, bright and warm at times, but showers passing round, & some here at noon, and during afternoon. —	55	* 49	.13
478.77			407.5 57.35	Mean Temp 57.562. ) Rain cal over .113			



# September 1859.

Sept.	Baro. meter	Wind	Thermom. lowest 9 highest am	Weather, &c.	Thermom. 8pm	Notes	Rain 1-13
S. 17.	29.79	NE <sub>3</sub>	53	Squally sky, and rain early, very squally again from 9 am, heavy driving showers till noon, finer & clearer P.M., less wind, and fine night.	58 61		13 16
Su 18.	-74	NW <sub>1</sub> NW <sub>0</sub> W <sub>0</sub>	48	More serene, and very fine, warm & sunny day, with fleecy clouds, more hazy with cirri from 4 pm, cloudy evening, and show for rain.	56 64	Depleted lens 3pm & after. Barom. fell at 8pm 30.15.	
M. 19.	29.97	SW <sub>4</sub> W <sub>2</sub> NW <sub>1</sub>	53	Blowing & hard rain 4 am; and rainy till near 7, then cleared off. Fine sunny day, with grey clouds. Even clear.	56 62	MOON last 20 10.14pm.	37
Tu 20.	-10	W <sub>0</sub> SW <sub>2</sub> S <sub>2</sub>	44	Hazy & calm morn'g bright forenoon, no wind till 12, con- tinued bright all afternoon, but more wind. Cloudy & close even- ing lowering for rain.	53 63		
W. 21.	-49	S <sub>3</sub> SW <sub>2</sub> NW <sub>1</sub>	53	Overcast & rain from 5 1/2 am, more or less till near 12 noon. fine & some sun from 1 till after 3 pm; rather squally again, for a little time, & a storm at 6 1/2 pm.	58 61	☐☐☐	52 13
Th. 22.	-63	SW <sub>4</sub> W <sub>6</sub> SW <sub>2</sub>	47	Clear & windy, morn'g, very blow- ing day, with bright sun, and flying clouds; but warm, and pleasant. Evening & night more clouded & thick.	57 63		
F. 23.	-88	SE <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	50	Hazy & thick, little wet at 12, fine, sultry afternoon, some sun & thin clouds. Very sul- try evening and night.	59 69	Equinox great change to heat again.	02
S. 24.	30.02	SW <sub>2</sub> SW <sub>2</sub> S <sub>2</sub> SE <sub>2</sub>	62	Thin clouds & sultry morn'g, soon became bright & very hot, equal to Midsummer. Evening chiefly clear, and the Aurora very bright in the North.	66 76	sudden return of summer heat. Aurora brilliant 9pm.	
47868			4105205	Mean Temp 58°156.)		Carried up -	2.46

# September 1859.

Sept.	Baro. meter	Wind	Thermom. lowest 9 highest am	Weather, &c.	Thermom. 8pm	Notes	Rain 2-46																																																
Su. 25.	30.00	S <sub>2</sub> SSW <sub>3</sub> SW <sub>2</sub>	62	Very sultry & electric, more lower- ing about noon, little rain, dark clouds & heavy shower 3pm, af- terwards bright, with fewer & light clouds, & very warm.	67 70		06																																																
M. 26.	-15	SW <sub>2</sub> S <sub>1</sub> S <sub>5</sub>	57	Bright, with a warm breeze, be- came cloudy at 10 am, close af- ternoon, nearly calm, and dis- tant Thunder in West. Very wet and squally evening.	65 65	new moon 1.56 pm. *48 Thunder	42																																																
Tu. 27.	-13	W <sub>1</sub> SW <sub>1</sub> SE <sub>1</sub>	55	Bright forenoon, more clouds afterwards, but very warm, and fine. Close evening, and a dark clouded atmosphere.	58 66																																																		
W. 28.	29.90	SE <sub>0</sub> S <sub>2</sub> S <sub>3</sub>	52	Overcast & hard rain from 6 to 7 am; sunny forenoon, and distant Thunder. Afternoon also bright, with rocky clouds. Some rain & wind 10 pm.	62 67	Distant Thunder all AM.	12 08																																																
Th. 29.	-80	S <sub>1</sub> SW <sub>3</sub> W <sub>4</sub>	52	Bright with rocky clouds, and breezy, a heavy shower 3 pm. Another soon after.	59 65		05																																																
F. 30.	-98	SW <sub>2</sub> SW <sub>3</sub> SW <sub>4</sub>	49	Sun & flying clouds, followed by hard rain from 10 am, to 12. Squally afternoon, and almost continual rain from 1 pm.	59 63	Δ☐☐♀	51																																																
35988			327396	Mean temp 6 days 60.25.)		Rain -	3.70																																																
<table> <tr> <th colspan="4">Barometer.</th><th colspan="4">Thermometer.</th></tr> <tr> <td>Highest on the 11<sup>th</sup></td><td>30.40.</td><td>Highest on</td><td>24<sup>th</sup></td><td>76.5</td><td></td><td></td><td></td></tr> <tr> <td>Lowest on</td><td>21<sup>st</sup></td><td>29.49</td><td>Lowest on</td><td>20<sup>th</sup></td><td>44</td><td></td><td></td></tr> <tr> <td>Range</td><td>0.91</td><td>Range</td><td></td><td>32.5</td><td></td><td></td><td></td></tr> <tr> <td>Mean of month</td><td>29.96</td><td>Mean daily range</td><td></td><td>13.91</td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td>Mean of month</td><td></td><td>58.84</td><td></td><td></td><td></td></tr> </table>								Barometer.				Thermometer.				Highest on the 11 <sup>th</sup>	30.40.	Highest on	24 <sup>th</sup>	76.5				Lowest on	21 <sup>st</sup>	29.49	Lowest on	20 <sup>th</sup>	44			Range	0.91	Range		32.5				Mean of month	29.96	Mean daily range		13.91						Mean of month		58.84			
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Fine days 13. Rain 3.70 Inches. Winds chiefly SW.

This was a very changeable month, with a considerable fall  
of rain, and the temperature about its general mean, but  
much below that of the two preceding Septembers. Diarrhoea,  
scarlatina, Cynanche, Catarrh, & rheumatic affections very  
prevalent in many places. — 2 gales in this month.



# October 1859.

Oct.	Baro. meter	Wind.	Thermom. low 9 high	Weather, &c.	Thermom. 8pm.	Notes.	Rain.
S. 1.	29.98 30.05	SE <sub>2</sub> SW <sub>2</sub> SW <sub>1</sub>	58 63 69	Gloomy & sultry morn, squally & wet from 9 to 10 am, afterwards fine, bright & hot. afternoon. warm evenings, and chiefly clear. Aurora bright.	63	ΔOH Aurora brilliant 9pm.	.08
Su. 2.	-27 -33	SW <sub>2</sub> SW <sub>1</sub> SW <sub>1</sub>	56 62 66	Bright with small electric clouds & fleecy cumuli, but very warm. Evening quite clear, at sunset, warm night, and Aurora very brilliant.	61	Aurora again bright at 8 & 9 pm.	
M. 3.	-30 -23	SW <sub>1</sub> S <sub>2</sub> SE <sub>2</sub>	58 63 71	Warm & fine morn, and a very fine, hot and summer-like day. Golden sunset, and clear evening: soft breeze & fine night.	62	Moon 1 <sup>st</sup> Dr 8.32pm.	
Tu. 4.	-11 -05	SE <sub>2</sub> SE <sub>2</sub> SE <sub>1</sub>	57 67 75	Great fog, but quite clear from 8 am, and very hot, unusually so for the season! And a clear and pleasant evening, and night.	66	Distant electric clouds in West 2pm.	
W. 5.	-15 -15	SW <sub>1</sub> SW <sub>1</sub> Var. o.	55 65 73	Fog early: very bright and hot from 8 am; curdled electric clouds all pm, & distant Thunder. Fine and close evening, and night.	64	Electric sky, and Thunder far in SW.	
Th. 6.	-21 -14	NE <sub>o</sub> E <sub>2</sub> E <sub>2</sub>	58 62 67 1/2	Very hazy, and light scuds below, but very close and fair. Distant Thunder in North, 2pm. Clear evening, & fresh breeze. Very fine night.	62	Thunder in N. 2pm.	
F. 7.	-02 -02	E <sub>3</sub> SE <sub>3</sub> SE <sub>1</sub> SE <sub>1</sub>	58 63 68	Sultry with blue haze; clearer hot and sunny afternoon, some small electric clouds, evening foggy. Lightning & Thunder all night distant.	62	Thunder early AM, and again at night.	
S. 8.	-04 -10	S <sub>1</sub> SW <sub>1</sub> S <sub>1</sub> SE <sub>1</sub>	59 61 62	Rain early with distant Thunder, and hard rain again from 8 am, till 3 pm, afterwards fair, and a clear moonlight evening, with small electric clouds of a silky appearance.	62	great fall of rain.	.22 .78
482.15		459.5515		Mean Temp 63° 15. ) Rain Dup 1.08			

# October 1859.

Oct.	Baro. meter	Wind.	Thermom. low 9 high	Weather, &c.	Thermom. 8pm.	Notes.	Rain.
Su. 9.	30.10 29.98	SE <sub>1</sub> E <sub>2</sub> NE <sub>3</sub> NE <sub>3</sub>	53 62 66	Fog but soon clearer, warm and sunny till 3pm, then more wind & clouds; Evening cloudy, and a very warm breeze. Cloudy and windy night.	61		
M. 10.	-88 -84	NE <sub>3</sub> E <sub>3</sub> E <sub>2</sub>	55 56 57	Blowing & cloudy, more or less all day, little rain 4pm; but a fine evening and moon bright, with very light clouds.	53		
Tu. 11.	-62 -72	E <sub>3</sub> E <sub>2</sub> Var. 1.	51 56 61	Cloudy, blowing & some rain early, and in showers in the forenoon. Fine afternoon, some sun, and mixed clouds. Rather close evening and night.	55	Full moon 11.51pm.	.18
W. 12.	-86 -90	Var. o. E <sub>1</sub> E <sub>1</sub>	53 55 61	Close & some fog, soon bright, and pleasant, but low clouds followed at times, with a little rain, yet mostly fair, close & warm. the same all night.	57		.03
Th. 13.	-92 -88	SW <sub>o</sub> SE <sub>1</sub> SE <sub>1/2</sub>	54 58 62	Close & cloudy, but very fine, clearer after 2pm, some sun, and very warm. The evening the same. Moon dim & hazy.	59	*h♀ □4♀	
F. 14.	-82 -78	E <sub>1</sub> E <sub>2</sub> SE <sub>1</sub>	51 58 62 1/2	Hazy, and close till noon, afterwards bright, & very warm, with rocky electric clouds; and a clear moon light. Evening very large Meteor 6pm - fell to N.	53	*h♀ □4♀ great fire meteor 6pm.	
S. 15.	-72 -69	NE <sub>1</sub> E <sub>1</sub> NE <sub>1</sub>	49 58 62	Hazy but soon brighter, with some electric clouds at times, very warm, but lowering after 2pm, and a very cloudy and close evening. Hard rain - 9 & 10pm.	57	*4♂	.30
Su. 16.	-64 -70	SW <sub>1</sub> SW <sub>3</sub> SW <sub>2</sub>	56 60 63	Overcast sultry and foggy, then clearer, but soon squally with showers, and distant Thunder westward. Very warm & sultry. The evening clearer, but very squally sky.	57	□04 *0h much Thunder 2pm.	.12
477.05		422.4945		Mean Temp 57° 28. ) Rain car over 1.71			



# October 1859.

Oct.	Baro. meter	Wind.	Thermom. low 9 high	Thermom. 8 pm.	Notes.	Rain. 1.71
M. 17.	29.80	SW <sub>2</sub> SSW <sub>2</sub> SE <sub>1</sub> W <sub>1</sub>	53 56 61		Lowering & showery from 7 am, then squally & very heavy rain till 10 am: - finer from that time, and some sun, but much cloud. Night clearer.	78
Tu. 18.	30.11 -10	NW <sub>1</sub> NW <sub>1</sub> NE <sub>1</sub>	46 54 60		Foggy morn'g; cloudy forenoon, bright & warm afternoon. Cloudy evening, and little wet: close night, but chiefly fine.	01
W. 19.	-10 29.97	Var. SW <sub>1</sub> SE <sub>1</sub>	49 54 57		Cloudy more or less, and calm & mild atmosphere more wind after 3 pm. Cloudy evening. - Stormy during the night.	01
Th. 20.	-71 -53	SW <sub>2</sub> NW <sub>2</sub> NW <sub>3</sub>	50 53 54		Rain early, cloudy forenoon, very wet afternoon, much cooler, and a dark, and dripping evening.	12 31
F. 21.	-42 -38	NW <sub>2</sub> NW <sub>2</sub> NW <sub>4</sub>	38 40 42		Cold & stormy early: bright after 8 am, but cold air continued bright all day, but very cold. - Blowing night little snow, & cloudy.	05
S. 22.	-57 -64	NW <sub>2</sub> W <sub>3</sub> W <sub>1</sub>	31 36 45		Keen frost early, bright & warmer again as day opened. continued bright, but heavy storm-clouds at a distance. Clear & frosty night.	02
Su. 23.	-57 -50	NW <sub>1</sub> Var. NW <sub>0</sub>	29 33 42		Sharp white frost early, bright morn'g, but after 11 became hazy, and cloudy, yet fine, & calm. Night clearer, & again frosty.	02
M. 24.	-58 -60	SW <sub>1</sub> SW <sub>2</sub> S <sub>1</sub>	30 36 42		Clear & keen frost early, bright forenoon, cloudy & thick afternoon. Little rain, & dark evening, but clear & frosty after 9 pm.	02
47.555			326 40 4	Mean Temp 45° 6' 25". Rain cal up 2.95		

# October 1859.

Oct.	Baro. meter	Wind.	Thermom. low 9 high	Thermom. 8 pm.	Notes.	Rain. 2.95
Tu. 25.	29.67 -44	SE <sub>0</sub> SE <sub>2</sub> SE <sub>5</sub> S <sub>6</sub>	29 34 51		Clear, & keen white frost, but soon hazy, cloudy and mild - er again in the afternoon; blowing hard all the evening & driving rain. Gale, and heavy rain most of the night and return of mildness.	70
W. 26.	-21 -44	SW <sub>6</sub> SW <sub>6</sub> SW <sub>8</sub> W <sub>4</sub>	46 48 49		Stormy, & very blowing, furious gale all the forenoon, upsetting trees, &c. - Blowing all day sun at times, but less wind at eve. Clear & fine night & wind ceased.	03
Th. 27.	-95 30.01	SW <sub>1</sub> SW <sub>2</sub> SW <sub>2</sub>	33 39 45		Clear but soon hazy, and rather cloudy till 3 pm, afterwards chiefly bright, and fine day. - Evening more hazy, - and the same all night.	03
F. 28.	29.94 -61	SE <sub>2</sub> SE <sub>4</sub> SE <sub>5</sub>	35 42 51		Hazy & stormy clouds, more wind after 1 pm, blowing evening, and some rain at 8 pm. - Windy night.	05
S. 29.	-43 -52	SW <sub>3</sub> SW <sub>3</sub> W <sub>3</sub>	41 45 49		Squally sky, but fine, and chiefly sun, with a very drying breeze. Clear evening, and very black wind but no frost.	05
Su. 30.	-67 -49	W <sub>2</sub> SW <sub>2</sub> SE <sub>4</sub>	37 41 48		Clear, & brisk air. very bright till 1 pm, afterwards very cloudy and thick, followed by a rainy evening. Squally & wet night.	58
M. 31.	-39 -28	N <sub>1</sub> E <sub>1</sub> Var. SE <sub>3</sub>	41 45 50 53		Cloudy with sun, warm & pleasant noon; much disturbance Thunder SW. 2 to 4 pm - various crocants, & dark clouds. - Blowing night and some rain.	18
41.405			262 34 6	Mean Temp 43° 2' 14". Total rain 4.49		



# Results for the month of October 1859.

Barom.	{	Highest on 2 <sup>nd</sup>	30.33.	Therm.	{	Highest on 4 <sup>th</sup>	75°!
		Lowest on 26 <sup>th</sup>	29.21			Lowest 23 <sup>rd</sup> & 25 <sup>th</sup>	29°.
		range	<u>1.12</u>			Range	<u>46</u>
		Mean of Month	<u>29.819.</u>			Mean daily range	<u>10.45</u>
						Mean of Month	<u>52.37.</u>
Gale on two days this month.							

Winds SW, SE, & E. — Rain 4.49 Inches. Fine days 18.

This month was remarkable for great extremes of temperature, the first week real summer, the second nearly the same, and even up to the 19<sup>th</sup> unusually warm; then a sudden fall into win-  
terly nights & cold storms. The west & north parts of England  
had great falls of snow on 21<sup>st</sup> 22<sup>nd</sup> & 24<sup>th</sup>, and much thunder  
prevailed on 7<sup>th</sup> 8<sup>th</sup> 11<sup>th</sup> & 16<sup>th</sup> during the heat, and again on 22<sup>nd</sup> & 31<sup>st</sup>  
during the cold. — Much sickness of many kinds in Town & country.

# November 1859.

Nov.	Baro- meter	Wind	Thermom. 8 am	Thermom. 8 pm	Weather &c.	Notes	Rain.
Tu. 1.	28.86 29.10	SW <sub>4</sub> SW <sub>3</sub> W <sub>7</sub>	46 51 54		Blowing morn, increasing to violent gale, all the day, and flying rain at times after 12. Even, clearer, but very blowing. Fine night & less wind.	Hurricane all day, but very mild air.	.03
W. 2.	-80 -90	W <sub>2</sub> W <sub>2</sub> S <sub>2</sub>	41 43 52		Bright, with light clouds, continued so all day, and pleasant for the season. — Hazy & cloudy even, little rain but a fine night.	moon 1 <sup>st</sup> Dr 4. 19 pm. pleasant day.	.05
Th. 3.	-82 -85	SW <sub>1</sub> SW <sub>1</sub> SW <sub>1</sub> S <sub>2</sub>	41 43 52		Very fine & bright, with cumuli clouds, mild, and pleasant day. Clear moon light Evening, but changed after midnight, & the wind also veered Eastward.	□ R ♀ Δ 4 ♀ very plea- sant Day	
177.33		128.1615		Mean Temp 48° 25. — Rain cal up 0.08			

# November 1859.

Nov.	Baro- meter	Wind	Thermom. 8 am	Thermom. 8 pm	Weather, &c.	Notes	Rain.
F. 4.	29.53 -23	SE <sub>4</sub> SE <sub>3</sub> SW <sub>4</sub>	41 50 54		Cloudy, windy & little rain early; dark & lowering all day, with rain at times; clear even from 7 pm, but some rain in the night & wind squally.	very mild air, even & night.	.35 .06
S. 5.	-42 -41	SW <sub>3</sub> SW <sub>3</sub> S <sub>6</sub> S <sub>7</sub>	43 44 57		Clear & rather windy, con- tinued bright till 1 pm afterwards hazy, and a stormy even, strong wind, and extremely warm all night, wind abating.	very warm Evening & heavy gale.	
Su. 6.	-42 -70	SW <sub>3</sub> W <sub>7</sub> W <sub>4</sub> W <sub>3</sub>	53 54 59		Showery morn, cleared at 8 am, but very blowing all day, bright sun, & exceedingly warm. Clear moon light Even, and a dry night.	Δ H ♂ very warm day, although blowing	.08
M. 7.	-68 -87	SW <sub>6</sub> SW <sub>6</sub> WSW <sub>1</sub>	51 55 56		Very blowing, mild & bright, with flying clouds. Less wind after 3 pm, abating all the rest of the day. Even hazy & wind ceased.	□ R ♀ Δ 4 ♀ fine & drying day.	
Tu. 8.	-85 -72	WSW <sub>2</sub> SW <sub>5</sub> W <sub>6</sub> NW <sub>3</sub>	40 42 50		Clear morn, & chiefly bright till 1 pm, more wind & dark clouds, with squally sky the rest of the day. Very black & threatening at 6 pm, but a fine clear night & less wind.	Elm & maple leaf falls fast.	
W. 9.	30.23 -55	NW <sub>2</sub> N <sub>2</sub> N <sub>2</sub>	34 34 44		Quite clear & much colder, continued bright till after 3, then a little flying fall of sleet. Moon bright at 8 pm, & frosty air. Fine night, little fog.	Rapid rise of Barom.	
Th. 10.	-73 -80	N <sub>1</sub> N <sub>2</sub> NE <sub>0</sub>	33 37 46		Cloudy, but soon clear, very bright & pleasant all the day, & very little wind. Clear, calm, and frosty night.	Full moon 2. 5 pm.	
418.14		29.53665		Mean Temp 47° 25. — Rain cal up 0.57			



# November 1859.

Nov.	Baro- meter.	Wind.	Thermometer lowest 8 am highest	Thermom. 8 pm.	Notes.	Rain. 0.57
F. 11.	30.78	S E <sub>0</sub> S E <sub>2</sub> S E <sub>1</sub>	32 39 47		Hazy, with grey clouds, and sun, very fine & plea- sant; more hazy in the evening, but a clearer night & frosty. —	37
S. 12.	-57 -53	S E <sub>2</sub> S E <sub>2</sub> S E <sub>1</sub>	31 34 47		Frost early, very fine & sunny day, drying breeze, and light arcs of cloud. Evening hazy, and moon dim, but very fine. —	36
Su. 13.	-49 -43	S E <sub>1</sub> E <sub>1</sub> NE <sub>0</sub>	31 32 46		Frost early, red streaked sky, and little haze. Bright & calm day, very fine, but keen air in shade. Even- ing frosty & clear. Cold night.	33 Holiage much thinned & shrivelled.
M. 14.	-40 -38	NE <sub>0</sub> Var. o. W. NE <sub>0</sub>	25 27 43		Severe frost, & fog all the morn'g, bright and calm day, hazy evening, some fog, and frost sharp till midnight. —	30 Leaves fading off the trees.
Tu. 15.	-34 -34	NW <sub>2</sub> NE <sub>2</sub> NE <sub>2</sub>	27 34 46		Very foggy all the fore- noon, more bright with mixed clouds afternoon. Bars of cirrostratus across the whole SW & W, at 3 set.	38 change since midnight.
W. 16.	-35 -31	NE <sub>2</sub> NE <sub>2</sub> E <sub>1</sub>	35 39 45		Cloudy, but soon clearer, heavy clouds followed, a little rain at times; very cloudy evening, & more rain at 5 & 6 pm, also at 8. —	38 8 H <sub>2</sub> O * 8 H <sub>2</sub> O Trees nearly all bare.
Th. 17.	-30 -34	N <sub>1</sub> N <sub>1</sub> N <sub>0</sub>	36 38 43		Cloudy, little rain early, more fair in the day, cloudy with sun at in- tervals. Evening very cloudy and calm. — Night clearer & fine. —	39 Δ 0.4 moon last Dr 1.6 pm.

426.27 21753175 Mean Temp 38° 21. Rain c-up 0.70

# November 1859.

Nov.	Baro- meter.	Wind.	Thermometer lowest 8 am highest	Thermom. 8 pm.	Notes.	Rain. 0.70
F. 18.	30.40 -42	S <sub>2</sub> S <sub>3</sub> SSE <sub>3</sub>	33 34 45		Clear morn'g, fine sunny forenoon, cloudy and hazy afterwards, with a raw and bleak wind. but milder in the night.	40 □ on
S. 19.	-42 -40	S E <sub>2</sub> S <sub>1</sub> S <sub>1</sub>	38 41 47		Red East, & plane clouds, but a bright and mild day, & dry drying. The evening frosty, & chief- ly clear. —	36
Su. 20.	-24 -09	S E <sub>2</sub> SE <sub>4</sub> SE <sub>5</sub>	32 36 46		Little frost, red East, but bright, a fine sunny day & bleak wind. — Evening cloudy, & blowing. Fog & less wind dur night.	38 Trees quite naked.
M. 21.	29.96 -92	S E <sub>2</sub> S E <sub>1</sub> S E <sub>1</sub>	34 35 47		Foggy but bright, continue to bright all day, but a haze below, & damp air. The evening the same, and foggy night. —	38 Fog increas- ing during the night.
Tu. 22.	30.02 -10	W <sub>0</sub> Var. o. SW <sub>1</sub> SE <sub>1</sub>	32 34 47		Very thick fog, so conti- nued till near noon — then bright for a few hours. Cloudy & foggy after 4, and very mild evening. — close and damp night —	47 Great fog, till 11.
W. 23.	-21 -21	NE <sub>1</sub> E <sub>1</sub> E <sub>0</sub>	44 46 51		Very foggy morn'g, very mild day. Low clouds & some sun. Sun set red in haze, and the evening again foggy. Mild night.	42
Th. 24.	-19 -17	E <sub>0</sub> E <sub>2</sub> E <sub>3</sub>	39 41 51		Fog below, but soon very bright, mild, and a drying breeze. — Pleasant day for the season. — Evening in part cloudy, and more wind. —	47 new moon 1.43 pm. Blowing all night.

422.75 252334 Mean Temp 41° 85. Rain c-up 0.70



# November 1859.

Nov.	Baro. meter	Wind.	Thermom. lowest 8 am	Thermom. 8 pm.	notes.	Rain & 0.70
M. 25.	30.11	E 3.	42	44	Cloudy, much colder after day light, dry breeze, and continued very cloudy. Closer evening & less wind. —	
	-11	E 1.	44	39	Damp & mild night. —	
S. 26.	-04	S E 2.	39	43	Very cloudy, little wet, but chiefly foggy, dark, damp, and cloudy all the day. —	
	29.84	S 3.	43	48	some rain at 9 & 10 pm, & wind veered afterwards. —	.13
Su. 27.	-92	NW 2.	41	43	Clear morning & very bright all day, with brisk air. Cold evening, in part clear but some clouds. Change, & much rain during the night. —	
	30.18	NW 3.	43	48		
M. 28.	29.91	S 4.	39	42	Heavy rain at times till 7 am, then finer but cloudy till noon afterwards chiefly bright. The evening clear, and cold, a stormy sky but fair. —	
	30.01	SW 3.	42	36		
Tu. 29.	29.89	NW 2.	34	36	Stormy air, and arcs of electric cloud, but fair and chiefly bright. Cloudy & closer evening, and some rain during night. —	
	-78	W 3.	36	41		
W. 30.	-60	NW 1.	36	37	Cloudy morn, but soon bright, with stormy clouds at a distance; and some very rocky with hail, & sleet. —	
	-67	NW 2.	42	36	Cold & squally even. —	
35	9.06		231	266	Mean Temp. 41° 41b.) Total Rain 1.62	

Barometer.		Thermometer.	
Highest on 10 <sup>th</sup> —	30.80!	Highest on the 6 <sup>th</sup> —	59° 2.
Lowest on 1 <sup>st</sup> —	28.86!	Lowest on the 14 <sup>th</sup> —	25° 2.
Range —	1.94!	Range —	34
Mean of month —	30.059	Mean daily range —	10.70
Gales on 5 days. —		Mean of month —	42° 80.

# November 1859.

This was a very seasonable month, the temperature the usual mean, rain 1.62; fine days 19; winds much divided & almost equal from all points, and hard gales on 5 days. — Much sickness prevalent; Fever, some Typhus, Small Pox, Cynanche Maligna, and pulmonary Diseases. Many deaths in Town and country. —

# December 1859.

Dec.	Baro. meter	Wind.	Thermom. lowest 8 am	Thermom. 8 pm.	notes.	Rain.
Th. 1.	29.64	NW 4.	32 1/2	36	Squally with frequent short showers, till 1 pm finer afternoon, & some sun. Clear evening, but sleet. Storms during night. —	.13
	-98	NE 1.	41	32		
F. 2.	30.10	NE 2.	31	32	Sleet & snow in short drifts early am, and during the day; sun at times. Frosty even, & heavy snow at times. —	.10
	-21	NE 3.	35	29	1.50 pm.	
S. 3.	-27	NE 1.	27 1/2	30	Frost, but soon milder sun at times, some haze, and mixed clouds. —	
	-27	NE 1.	35	32	Evening very cloudy, and nearly calm. —	
Su. 4.	-07	S 2.	29	31	Cloudy, red east, & change overcast, little sleet, followed by rain, dark and wet afternoon, & more wind. Very blowing & rainy night. —	.15
	29.74	S 4.	53	42		
M. 5.	-45	SSW 5.	57	53	Very mild ever since last evening, close & blowing morning. Very stormy & wet afternoon. Finer & clearer afterwards. in the evening. —	.14
	-62	SW 6	56	45		
		W 3.				
29	9.35		171	220	Mean Temp 39° 10. —	Rain cal over 52



# December 1859.

Dec.	Baro. meter	Wind.	Thermom. Lowest 8 highest	Weather, &c.	Thermom. 8pm.	Notes	Rain 0.52
Tu. 6.	29.80 -70	SW <sub>2</sub> S <sub>4</sub> S <sub>4</sub>	38 40 45	Cloudy, and squally sky, wind gusty, but fine, & mild. - Blowing & lowering Evening; rain from 7 <sup>1</sup> / <sub>2</sub> pm - at times, with hail at 9.	43	very squally & wet night	21
W. 7.	29.88 30.29	SW <sub>2</sub> S <sub>1</sub> S <sub>0</sub>	36 37 46	Fine and very bright all day, gentle wind, and mild for the season. Hazy Even- ing, and moon dim, some fog in the night.	36		
Th. 8.	30.37 -45	SE <sub>3</sub> SE <sub>2</sub> SE <sub>4</sub>	36 43 48	Grey sky, clouds & sun, but very fine and drying all day. Very clear moon light evening, & windy, but some fog in the night.	42		
F. 9.	30.37 -73	SE <sub>3</sub> SE <sub>3</sub> E <sub>3</sub>	38 43 43	Bright moon-light morn- ing, but cloudy in the day, and a colder wind. - Flying low clouds passing the moon all the even- ing.	38	very bleak air.	
S. 10.	30.83 -84	NE <sub>0</sub> NE <sub>3</sub> E <sub>3</sub>	31 32 39	Grey frost, bright morn- ing, and the same till 1pm. afterwards cloudy, and a very keen wind. The evening also cloudy & very cold; less wind & frosty night.	33	* ♂ ♀ Full moon 3.13am.	
Su. 11.	30.68 -63	E <sub>0</sub> NE <sub>0</sub> NE <sub>0</sub>	27 28 32	Keen frost & thick fog more or less all day, and the Evening the same. Very cold and raw atmosphere, and quite calm. Change during the night.	29	Δ ♂ ♀ very keen & raw.	
M. 12.	30.49 -49	NW <sub>2</sub> NW <sub>1</sub> NW <sub>0</sub>	26 32 40	Overcast & change from sharp frost to drizzling very foggy till noon, af- terwards clearer, but no sun. Evening cloudy, and damp as before.	37	damp and gloomy.	05
42.585		2322935		Mean Temp 37° 53. - Rain 0.78			

# December 1859.

Dec.	Baro. meter	Wind.	Thermom. Lowest 8 highest	Weather &c.	Thermom. 8pm.	Notes	Rain 0.78
Tu. 13.	30.42 -24	NW <sub>1</sub> NW <sub>1</sub> NW <sub>2</sub>	32 33 36	Hazy morn- ing. Little frost sunny noon; clouds & a little snow in the after- noon, & evening. Third frost 7pm, & Aurora brilliant behind clouds.	31	Aurora Borealis very bright at Eve.	
W. 14.	30.08 29.99	NW <sub>4</sub> NW <sub>3</sub> NW <sub>2</sub>	27 28 30	Drifting storms of snow, followed by continual hea- vy snow, with little inter- mission all day. - Evening in part finer, and frost sharper.	25	Heavy snow- most of the day. Snow a foot deep.	
Th. 15.	30.08 -00	NW <sub>2</sub> NW <sub>1</sub> NW <sub>2</sub>	20 24 27	Sharper frost, and clear; bright all day, & severe frost. Therm at 0 set 20° and 19° all the evening, and fell rapidly during the night.	19	Drift of hail at 3 <sup>1</sup> / <sub>2</sub> am.	
F. 16.	29.81 -76	Var. o. W <sub>2</sub> NW <sub>0</sub> NW <sub>0</sub>	6 6 27	Clear, haze below, & extremely severe frost, rime on trees, & no wind. Clear till 2 <sup>1</sup> / <sub>2</sub> pm then clouds from WSW. Therm rose to 20° at 11am, & to 27° soon after 1pm. - Clear evening & more severe. - Hine fell 8.	10	moon last 2r 9.15pm. Frost intensely severe.	
S. 17.	30.76 -85	Var. o. SE <sub>1</sub> SE <sub>2</sub> Var. o.	3 9 26	Most intensely severe frost and thick snow, more clou- dy in the day, a little snow at times. Very close and clouded evening, & less severe. Continued cloudy all night.	24	Therm at 7am 3 deg.	
Su. 18.	30.82 -82	Var. o. W <sub>0</sub> W <sub>1</sub> Var. o.	18 18 26	Less cloudy, much haze, and severe frost, but less so than previous; clearer after 11am, more severe & bright with fog below, & no wind. Evening cloudy, but clear at 21 the 10 <sup>th</sup> awful severe frost.	21	Δ 0 1/2	
M. 19.	30.87 -87	Var. o. SE <sub>0</sub> S <sub>0</sub> Var. o.	2 3 20	Awful severity of frost, and clear, haze below, & no wind. Bright all day & extremely severe. and the evening the same, but not so sharp all night.	9 <sup>1</sup> / <sub>2</sub>	Min 5th 7am 2. 10am 4. 11am 10 noon 15 2pm 20 6pm 12	
41.957		1085192		Mean Temp 21° 46. - Rain cal over 0.78			



# December 1859.

Decr.	Baro. meter	Wind.	Thermometer 8 am	Thermometer 8 pm	Weather, &c.	Notes.	Rain
Tu. 20.	29.90 -70	S <sub>2</sub> SSE <sub>4</sub> S <sub>5</sub> S <sub>6</sub>	9 18 32		Severe frost, but a change since last evening. - Clear, little wind rising, more hazy, & more wind in the day; cloudy & blowing even 9, gradual thaw in the night. -	Much abatement of cold since the night past.	0.78
W. 21.	-29 -37	S <sub>6</sub> SW <sub>5</sub> W <sub>4</sub> W <sub>4</sub>	29 38 42		Blowing, thaw & rain in a hard driving storm 9 am, afterwards fair, & bright, with gentle thaw, blustering wind, and flying clouds. - The night near the same. -		.13
Th. 22.	-56 -68	W <sub>3</sub> W <sub>2</sub> W <sub>2</sub>	33 34 39		Hazy clouds, & sun, became very bright and fine, little wind, & very few clouds, but the evening thick, and very hazy till 8, fine night. -		
F. 23.	-62 -63	W <sub>0</sub> Var. o. Var. o.	28 30 35		Hazy with frost, bright in the middle of the day, but very hazy & some fog from 2 1/2 pm. - Very close night and began to thaw at 12. -	84°	
S. 24.	-22 -24	SW <sub>4</sub> SW <sub>2</sub> S <sub>1</sub>	29 42 43		Thaw & rain at 6 am, very hazy day, and damp air very hazy evening, and some fog, trees dripping. - Changed to rain at 12. -	new moon 5.47 am.	.22
Su. 25.	-10 -10	W <sub>2</sub> WNW <sub>1</sub> S <sub>2</sub> SE <sub>3</sub>	37 40 40 42		Heavy rain till 7 am, afterwards cleared off, but followed by thick fog at 9 am. continual fog till evening then rainy and more wind milder during night. -	great floods on the vales.	.67
M. 26.	28.87 -85	SE <sub>2</sub> SE <sub>2</sub> E <sub>2</sub> NE <sub>2</sub> NW <sub>4</sub>	37 42 45		Overcast & very rainy from 8 1/2 am; till about 2 pm, then finer, but still overcast. Rain again from 3 1/2 pm for a short time, dark evening, more wind. -	Floods continue. - wind changing about.	.37
41173		2025278		Mean Temp 34° 32. Rain cal up 2.49			

# December 1859.

Decr.	Baro. meter	Wind.	Thermometer 8 am	Thermometer 8 pm	Weather, &c.	Notes.	Rain
Tu. 27.	29.36 -51	SW <sub>2</sub> SW <sub>1</sub> SW <sub>1</sub>	33 34 43		Clear morn'g, and mostly bright in the day, but some light mixed clouds after 2 pm. Very cloudy evening, little wet at times. -		.03
W. 28.	-41 -31	S <sub>2</sub> S <sub>4</sub> S <sub>2</sub>	36 42 45		Clear at 6 am, but soon overcast, blowing, and rain at times. dark & mild day. Hazy evening & morn'g dim. - Fine night but cloudy. -		.05
Th. 29.	-47 -29	S <sub>3</sub> SW <sub>4</sub> SW <sub>3</sub>	38 42 52		Very cloudy, and blowing with rain at times; & sometimes hard; very mild, and finer after 3 pm, but very hazy evening, and warm. -	great rise of temperature.	.40
F. 30.	-63 -62	SW <sub>3</sub> SW <sub>4</sub> SW <sub>4</sub>	45 46 52		Clear morn'g, grey sky, & very mild. dark, blowing & very rainy from 12 to 3, stormy sky continued, & very electric. -	vivid lightning in NE - all the evening.	.24
S. 31.	-84 -75	SW <sub>3</sub> SW <sub>2</sub> SW <sub>5</sub>	44 49 56		Overcast mild & wet, very dark & close air. - chiefly wet till 1 pm, afterwards fine, windy, and cloudy. -	remarkably mild all P.M.	.15
29519		196248		Mean Temp 44° 25. Rain 3.36			

Barometer.		Thermometer.	
Highest on 10 <sup>th</sup> day	30.84!	Highest on 5 <sup>th</sup> & 31 <sup>st</sup>	56°
Lowest on 26 <sup>th</sup>	28.85!	Lowest on 19 <sup>th</sup>	2
Range	1.99!	Range	54
Mean of month	29.79	Mean daily range	10.3
		Mean of month	34.54

Winds chiefly much divided. - Fine days 15, and the total depth of rain 3.36 inches. - A month of much change, great downfall of both kinds, and remarkable severity in the third week. -



## Summary notes 1859.

The main points of 1859, for peculiar attention, were the great mildness of the first 3 months, 2<sup>nd</sup>. The great and sudden heat on the 6<sup>th</sup> and 7<sup>th</sup> of April: 3<sup>rd</sup>. The excessive heat of the summer, especially July: 4<sup>th</sup>. The remarkable extremes of temperature above & below the mean in October. 5<sup>th</sup>. The great range of Barometer in Nov<sup>r</sup> & Dec<sup>r</sup>.; and 6<sup>th</sup>. The extraordinary changes, during December, and above all the intense cold in the third week.

The Highest Barom<sup>r</sup> Dec 10<sup>th</sup> - 30.84, but on the 9<sup>th</sup> of January, & 10<sup>th</sup> of November, nearly as high. The Lowest occurred Nov 1<sup>st</sup>, 28.86, and Dec 26<sup>th</sup> 28.85!

Hottest days July 12<sup>th</sup> 92°, and July 18<sup>th</sup> 93°!  
Coldest - Dec 17<sup>th</sup> 3°, and Dec 19<sup>th</sup> 2°!!  
So that in 1859, the summer's heat, and December's cold, were notably excessive, and the entire range of Barometer for the year occurred in December, and that was a far greater range than usual. —

The Depth of rain greater than usual, see table opposite. Not so productive a year, as the two preceding. —

## General Results for 1859.

1859	E	W	N	S	NE	SE	NW	SW	Number of gales.	Fine days.	Depth of rain.	Mean Bar.	Mean Temp.	Mean Daily range.
Jan.	0	5	1	4	2½	2½	2	14	6	19	0.98	30.24	39.58	9.03
Feb.	0	6	0	5	0	2	5½	9½	6	15	2.01	30.04	42.61	11.91
Mar.	0	9	0	1	0	0	7	14	5	16	2.14	30.03	47.75	13.19
Apr.	6½	2	1	1	1½	4	5	9	2	15	3.76	29.88	47.37	16.18
May.	10	1	2	0	14	3	1	0	0	27	0.93	30.09	55.50	19.57
June	4½	6½	2	1	6½	5½	2	2	0	24	3.25	29.92	64.06	17.08
July.	2	6	1	1	2	10	0	9	0	24	2.53	30.24	69.60	20.25
Aug.	0	2½	0	1½	2½	11	2½	11	1	18	2.66	30.11	65.57	16.33
Sep.	1	4	0	4½	4	2½	4	10	2	13	3.70	29.96	58.84	13.91
Oct.	5	1	0	3	3	6	4	9	2	18	4.49	29.81	52.37	10.45
Nov.	4	2	3	4	3	5	3	6	5	19	1.62	30.05	42.80	10.70
Dec.	1	3	0	5	5	4½	5½	7	4	15	3.36	29.79	34.54	10.30
1859	34	48	10	31	44	56	41½	101½	33	223	31.43	30.01	57.72	14.07

Prevalent wind SW, SE, & W. — Depth of rain above average, as likewise the mean Temperature, being the fourth of a series of Hot Summers! —

Orlando Whistecraft

Thwaites Dec 31<sup>st</sup> 1859.



