

STROUD, GLOS.

1771 - 1813

DR. THOMAS HUGHES.

Royal Meteorological Society,

49, CROMWELL ROAD, SOUTH KENSINGTON, LONDON, S.W.7.

*This Diary was  
Abstracted and Summarized  
by*

*C. E. BRITTON, F.R.M.S.*

Diaries kept in Locker A.

S.  O.



[Summarized by C. E. Britton  
Shoeburyness.]

A SUMMARY OF A METEOROLOGICAL REGISTER MAINTAINED AT  
STROUD IN THE COUNTY OF GLOUCESTER FROM 1st. JANUARY, 1771  
TO 17th. APRIL, 1813 BY THOMAS HUGHES, ESQUIRE, PHYSICIAN.

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This remarkable record is contained in three large and stoutly bound octavo volumes. It was presented to the Royal Meteorological Society in January, 1885 by the late G.J. Symons, Esq. The register commences on the 1st. January, 1771 at a location which is not exactly known but was clearly on the outskirts of Stroud. It was maintained there until the 28th. January, 1774, a period of three years. A note is then made "Removd. to Stroud & Insts. not being fixd. Register discontinued." The record begins again on the 1st. January, 1775 and continues practically without interruption until 17th. April, 1813, a period of over 38 years.

The name of the diarist is nowhere given in the three volumes which comprise the record. A certain amount of internal evidence was available, however. It was clear that he was a physician or at any rate an apothecary. We find occasional references on very cold days to the fact that 'the still waters in the shop were frozen'. Diseases epidemic in the vicinity of Stroud are frequently mentioned and the phrase 'many cough at church' is often to be found in the remarks column of the diary. The margin of the diary, especially in the later years, abounds with references to the weather in other parts of the world and to the numerous stirring events at home and abroad which occurred during the historic period of the French Revolution, the Napoleonic Wars and the Gordon Riots.

In an endeavor to discover the identity of the diarist, I was fortunate enough to be put into communication with Major Charles J. Fisher of Stroud. Major Fisher's grandfather, Paul Hawkins Fisher, compiled and published in 1871 a work entitled 'Notes and Recollections of Stroud'. The author was then 92 years of age and had resided in

Stroud during the whole of his remarkably long life. He was acquainted with all the local celebrities of his time and published his reminiscencies in this book. In Chapter XVII of this work there occurs an entertaining account of Mr. Thomas Hughes, Physician and Surgeon, and a comparison of dates and character makes no doubt possible that in this individual we have the author of the meteorological register now being summarised.

Thomas Hughes commenced his medical practice in Stroud in 1770. Before his removal to Stroud in 1774 he must, therefore, have been living very close to the town, although not within it. The register tells us that he removed to Stroud sometime in 1774 and Mr. Fisher's account gives us the valuable additional information that from this date until 1813 the diarist only changed his residence once, and then only to the house next door. From an entry in the diary we know that this occurred in 1795. Mr. Fisher also tells us that Hughes died on the 13th. May, 1813. The diarist therefore maintained his register until less than a month before his death. Thus from 1775 to 1813, the entries in the register refer to only one locality.

#### GENERAL DESCRIPTION OF THE DIARY.

An examination shews that the register was not originally in the form of bound volumes. The appearances indicate that the diarist kept his record in columnar form on separate large sheets of paper allowing one month to a sheet. At the end of the year the twelve monthly sheets were placed together and folded along the middle, a number of years being subsequently <sup>bound</sup> ~~bound~~ up together. Hence we sometimes find that entries are only decipherable with difficulty as they have been ~~sewn~~ sewn into the binding. In his book, Mr. Fisher says of Hughes, 'He kept a common-place book, in the form of loose sheets of folded paper, wherein he entered notices of his reading, and extracts from the books he perused'. This may or may not refer to the meteorological register, but the diarist apparently adopted the 'loose sheets of folded paper' method for recording his observations.

Observations are both eye and instrumental. The equipment consisted of barometer, thermometer, hygrometer and rain gauge. The eye observations are wind force and direction with weather diary for the day. In the early years observations are taken twice daily, morning and evening, although the hour of observation, which is always given, varies considerably. The morning observation varies from 0700 to 1000 and the evening from 1600 to 2000. As time goes on there is a gradual falling off in the evening observations and by 1799 the instruments are only read in the morning. From 1803 onwards, however, a new column is introduced to record the temperature at 2 p.m. There is also a column headed 'Casual Observations'. This contains a large variety of miscellaneous data, including special meteorological and astronomical observations, notes on the crops and other phenological items, items of news, mostly culled from the 'Gentleman's Magazine', and sundry purely personal notes. In this column there are occasionally entries in shorthand. These are rare at first but become much more common after 1790. They always occur when an observation has been missed and are clearly notes as to where the diarist was on these occasions. On other occasions of missed observations the diarist indicates his whereabouts in longhand. The reason for this differentiation is not clear. The system of shorthand used does not appear to correspond with any of the wellknown systems in use at the beginning of the nineteenth century and is probably a private system of the diarists adapted from some existing system.

During the whole of his remarkably long life he was associated with all the local celebrities of his time and published numerous papers in this book. In Chapter XVII of this work occurs an entertaining account of Mr. Thomas Hughes, physician, surgeon, and a comparison of dates and character makes no doubt possible that in this individual we have the author of the meteorological register now being examined. Thomas Hughes commenced his medical practice in Stroud in 1770. Before his removal to Stroud in 1774 he must, therefore, have been living very close to the town, although not within it. The register tells us that he removed to Stroud sometime in 1774 and Mr. Fisher's account gives us the valuable additional information that from this date until 1813 the diarist only changed his residence once, and then only to the house next door. From an entry in the diary we know that this occurred in 1798. Mr. Fisher also tells us that Hughes died on the 15th May, 1813. The diarist therefore maintained his register until less than a month before his death. Thus from 1775 to 1813, the entries in the register refer to only one locality. An examination shows that the register was not originally in the form of bound volumes. The appearances indicate that the diarist kept his record in columnar form on separate large sheets of paper, allowing one month to a sheet. At the end of the year the twelve months' sheets were placed together and folded along the middle. A number of years being subsequently bound up together. Hence we sometimes find that entries are only decipherable with difficulty as they have been sewn into the binding. In his book, Mr. Fisher says of Hughes, 'He kept a common-place book, in the form of loose sheets of folded paper, wherein he entered notices of his readings, and extracts from the books he perused.' This may or may not refer to the meteorological register, but the diarist apparently adopted the 'loose sheets of folded paper' method for recording his observations.

## NOTES ON THE INSTRUMENTS AND OBSERVATIONS.

### Barometer.

The instrument used was a mercury barometer as we read that on one occasion the diarist accidentally jerked some of the mercury out of the instrument. For the first two months the readings are in inches and tenths only. A change is then made to inches and hundredths and a note is made 'measured by a Nonius'. The Nonius was the precursor of the modern vernier and was a device by which smaller subdivisions of a scale were obtainable. There is an early account in Phil. Trans. Roy. Soc. for 1732., XXXVII, p. 274, of this device. No account is available as to the position of the instrument in the house or as to any corrections applied to the readings. It is fairly clear, however, from the lowness of the readings that no corrections were applied.

The diarist has computed monthly means of pressure as from 1805 but the means given in the table at the end of this summary have been recomputed from the daily readings.

### Thermometer.

No description of the thermometer is given. The scale used is not expressly stated but is clearly the Fahrenheit scale or very near to it. The graduations were upon the frame of the instrument as is clear from an entry in Nov. 1805 - 'Thermr. frame out of order'.

The exposure of the instrument varied from time to time. For the first two months it was in the staircase and thus had an indoor exposure, although it was occasionally taken out into the garden to see whether the outdoor temperature was any lower than that in the house. On 1st. Mar. 1771, the instrument was moved into an alcove into the garden. It apparently remained here until the removal to Stroud in 1774.

At the new house in Stroud, the thermometer was evidently attached to a penthouse as some observations are lost in February, 1777

owing to the removal of the instrument during re-painting operations. We hear nothing more\* until the diarist changed his abode to the house next door in September, 1795. He then states 'The place where Themr. & Hygromr. fixd. more open wth. an eastern aspect'. The exposure was apparently an outdoor one fully exposed towards the east. Apparently it remained here until the end of the record.

No means of temperature have been taken on account of the unsatisfactory nature of the exposure of the instrument.

From 1803 onwards a new column was opened for the temperature at 2 p.m. We thus have two temperature readings per day and only one of the other instruments. The general practice of taking more than one observation per day had been completely given up by 1799. Monthly means are also given from 1805 onwards.

*Does it mean with rafters open at all?*  
\* Note by G. R. N. In February 1786 he has a note "Shed where thermometer & hygrometer instead, but not (plaisid) to tile" (writing difficult to read but seems to imply that they were in a "penhouse" and the readings otherwise support this; lowest temp. not  $< 12^{\circ} \text{F}$ . This is supported by the entry for Feb. 23 1786 "door thrown open")

#### Hygrometer.

This instrument consisted of a string whose changes of length with variations of humidity caused the position of an index to vary and thus gave indications of changes in the amount of moisture in the air. This instrument appears always to have been set up in the same place as the thermometer.

When first set up in January, 1771, the readings of this hygrometer ranged from about 4.0 to 6.0 and in the following July, the readings were more like 2.5 so that high humidity went with a high reading of the instrument. At first the readings were in whole numbers and tenths but a nonius was soon supplied and hundredths became possible in April of 1771. The instrument rapidly deteriorated and after a year or two there was very little change in its indications from day to day. In fact, the nonius appeared to fall into disuse as early as July 1772. Attempts were occasionally made to remedy the defects. Thus on 1st. July, 1785 we read 'Became so much lengthened that wound up the String at each end so as to shorten it one Inch, being before at 0.1" '. Similar changes were made in 1786, 1795 and

1800, the indication of the index being arbitrarily altered. In September 1812, a new string was fitted in to the instrument, a piece of whipcord being used.

No results of any value can be deduced from these readings.

#### Rain Gauge.

From various entries in the diary we conclude that this instrument consisted of a funnel to catch the rain, the latter being collected at first in a wooden receiver built after the manner of a tub or barrel and fitted with a cock for drawing off the rain water. The amount of water collected at the time of observation was drawn off and the volume of it measured and converted into inches of rainfall. The result was entered in inches and thousandths.

From one reference we can form some idea of the size of the gauge used. Referring to some lost rainfall on 27th. Feb. 1771 we find that a gallon of water corresponded to a fall of 0.320 inches. Assuming the funnel to be a circular cone, this would give 33 inches for the diameter of the rim.

The receiver only held the equivalent of about 0.8 inch of rain. If more than that amount fell between observations the surplus overflowed and had to be estimated. This happened on a good many occasions. The receiver was subject to other accidents. In May 1771 there was a dry spell which caused the staves of the receiver to gape. Consequently the rainfall of the 27th. of that month, estimated at 0.060 inches, was lost. This was rectified in July 1771 by the provision of a tin receiver, also fitted with a stop-cock. This cock was left open accidentally upon a number of occasions and the rainfall lost. It is curious that, notwithstanding the numerous occasions when rain was lost owing to the smallness of the receiver, the diarist never installed a larger one.

As to the exposure of the gauge, there is no information. The only note bearing on this point is on 31st. August, 1784, where we read that a neighbouring house had been built on the SW side of the

funnel.

Snow appears to have been left in the funnel till it thawed in the fulness of time although it is not clear whether this was always the procedure.

Rain fall was always entered in the diary to the day it was measured on.

In preparing the tables at the end of this summary the monthly totals given in the diary have been checked and then rounded off to the nearest tenth of an inch. In counting rain days, those days with a fall of less than 0.005 inch have not been counted. Some doubt occasionally arises as to whether a day of precipitation is due to a fall of snow or a fall of rain. A query will be found attached to the number of rain days in the month where such doubt arises.

#### Wind Force and Direction.

Wind force is indicated by means of a Beaufort Scale. The numbers 0, 1, 2, 3, 4 are used to indicate wind force, 0 representing very light winds and 4, gales. A dash is used to indicate calms. The exact connotation of the figures cannot be ascertained. 3 is not infrequently accompanied by the description 'stormy' in the weather diary. 4 would thus represent only strong gales. It occurs on 50 days altogether in the diary, giving an annual frequency of a little over one day. It would therefore appear to correspond with force 9 on the present Beaufort scale.

Wind direction is given in points of the compass to the nearest 32nd. division of the circle.

#### Weather Diary.

This is generally a very full description of the progress of the weather during the day. From this diary the tables of the occurrences of fog, snow, hail, thunder etc. have been compiled. In this connection it is noteworthy that the diarist appears to have

watched carefully for occurrences of aurora borealis and he notes the phenomenon on a good many occasions.

There are a good number of abbreviations employed. The less usual cases are the following:-

|     |                 |
|-----|-----------------|
| f p | former part     |
| l p | latter part     |
| A B | Aurora Borealis |
| F   | Forenoon        |
| A   | Afternoon       |
| E   | Evening.        |
| l   | later.          |

#### Remarks Column.

This is generally occupied with accounts and references to the weather in other parts of the world. From 1779 onwards there are also great numbers of references to happenings all over the world. Both of these sets of references appear to have been extracted from the 'Gentleman's Magazine' and no attempt has been made to reproduce any of them in this summary. All references to local meteorological events, however, have been noted in the proper place in the summary of the diary. The diarist also notes in the margin the places he has visited whenever observations have been missed. These data have not been reproduced.

# SUMMARY OF THE REGISTER.

## January.

First two or three days mild but frosty for the rest of the month.

- 2nd. High wind with snow and rain at night - Barometer 'sunk two or three tenths abt. Mt.'
- 3rd. Thunder during morning - stormy with high wind. A vessel on the Severn damaged by lightning.
- 8th. to 14th. Hard frost.
- 11th. and 12th. Excessive cold wind. Thermom. in open garden sunk to 22° at 9 a.m. on 12th.
- 20th. Considerable snow, morning. (Snow 2 ins. deep not received by Funnel, computed to rise about 0.160)
- 22nd. Aurora 11 p.m.
- 26th. Hard storm of rain with high wind, afterwards more clear and wind abated.

## February.

Generally mild with a good deal of fog. A cold spell in the middle of the month.

- 1st. Stormy.
- 5th. Fog so thick on the Hills that Mr. C.\* lost his way between Leighterton and Tresham.
- 10th. 8 a.m. indoor temperature 32°. 'It being Sunday & the Front Door shut, I opened the Door for an Hour when I found the Thermometer at 31; after the Door was shut half an hour, it was again at 32.
- 11th. 'Snow 4 inches deep- as Pt. of it melted & froze in Nt. it burst the Bottle wch. recd. it from the Funnel, so yt. the Quany. cd. not be exactly ascertained; computed at about a Gallon, or 0.320'.
- 12th. At 8 a.m. indoor temperature 25°. 'In open Garden sunk to 11°, simple waters in shop freeze'.
- 13th. 8 a.m. indoor temperature 27°. 'In garden sunk only to 26° tho' Sun did not shine'.
- 14th. Indoor temp. at 8 a.m. 27°. 'In garden sunk to 17°.
- 'A Person who crossed the Severn at Penton informd. me yt. there was a Fog on the River so thick yt. the Boatmen were obliged to take a Compass. The same Person said that the Severn was frozen to a consid. Distance from the Banks & yt. the Passage was rendd. dangerous by Shoals of Ice obstructg. the Boat'.
- 15th. 8 a.m. temp. (indoor) 27°. 'In garden sunk only to 26°.
- 19th. Slight aurora, 10 p.m.
- 21st. 'XXX A vy. thick cold stinking Fog in the Bottom betwixt Charfd. & Bradley Hills.'
- 22nd. A rime on the hills.
- 26th. Halo round Moon, 10 p.m.

\* Probably a ~~man~~ Mr. Cooper mentioned later in the Diary.

March.

Cold and dreary.

- 3rd. Stormy.  
 5th. to 12th. Frosty period.  
 6th. 'a hard storm of snow abt. 1/4 hr. 5 p.m.'  
 7th. Slight aurora 8 p.m.  
 12th. 'Since 4th. in places exposd. to the Sun thawd. nearly as much by Day as froze by Nt.; but in shade it hardly thawd. till to-Day: so that Pt. of snow wch. fell on 6th. & 7th. not melted.'  
 13th. Heavy storm of Rain.  
 15th. Rime on hills at 4. "Fields begin to look green".  
 17th. Aurora 10 p.m.  
 22nd. to 30th. Frosty.  
 25th. 'Hardly thawd. in Shade on 23rd. & 24th. & certainly not to Day - Fields not so green as 10 days ago.  
 25th. Halo round Moon, 10 p.m.  
 27th. Snow storm (wind at SE) 1 p.m. - snow 5 p.m. (wind at SW), heavy, 2 hours - snow at midnight over 2 ins. deep.

April.

Cold and dry.

- 5th. Some snow lay on hills till to-day. Surface of Ground dry & Grass dry & witherd. except in moist Places.  
 11th. Roads very dusty.  
 14th. Hail 4 p.m.  
 16th. Heavy Snow 6 p.m.  
 23rd. Fields begin to look green. Leaves appear on some trees.  
 25th. Hail (morning).  
 26th. 'Report of Phenomenon of 3 Suns about 8 a.m.  
 27th. A circle round sun  
 28th. Some hail (aftn.).

May.

Dry and mild.

- 6th. Heavy storm 7 p.m.  
 7th. 'Frith Edges begin to put forth their Leaves. Barley sprung up very regularly'. (\*)  
 7th. Aurora (slight) 11p.m.  
 9th. Heard the Cuckow to Day, been heard by other people 4 or 5 days before.  
 12th. 'Beech trees begin to put forth their leaves'.  
 12th. Aurora (considerable) 10 p.m. 'Reported to be afterwards so great as to form a red canopy'  
 14th. Rainbow 7 p.m.  
 15th. Thunderstorm (noon) - heavy storm, Thunder with rain and hail 4 p.m. Both thunderstorms from South.  
 25th. Apples begin to blow.  
 27th. and 28th. 'Receiver, being a wooden one, so much dried, that the water ran out betwixt the joints of the Staves, so that these two Quantities are by computation. The Rain not sufficient to make the Roads dirty, only to lay the dust and enter about one inch in the Gardens.'

(\*) 'Frith Edges' are the Hedges of Wattled Brushwood.

June.

Seasonable, without excessive heat.

- 1st. Hard storm of rain, 5 a.m.
- 2nd. Midnight, aurora Borealis (considerable) coming almost from every point, least from South and forming a canopy'.
- 3rd. Aurora (slight) at 10 p.m.
- 7th. Apple trees said to be much blighted.
- 9th. Aurora (slight) at 10 p.m.
- 13th. Aurors (slight) at 10 p.m.
- 15th. Some grass mowed.
- 26th. Some thunderstorms reported to have been a few Miles off.
- 27th. Thunder heard at a distance.
- 30th. Heard a cuckow four or five days ago.
- 30th.. 'Did not observe it (i.e. temperature) on any day at Noon higher than 77. Few people have mowed their grass except near the Town'.

July. Generally dry except in the last week.

|       |       |        |     |
|-------|-------|--------|-----|
| 15th. | Temp. | Noon   | 79° |
|       |       | 3 p.m. | 81  |
|       |       | 5 p.m. | 79  |
|       |       | 8 p.m. | 71  |
| 17th. | Temp. | 2 p.m. | 82° |
|       |       | 8 p.m. | 72  |

- 18th. 'Ud. a Tin Receiver'. (\*)
- 31st. 'A good deal of grass yet to be cut: Crops in general very short'.

August.

Cool and showery.

- 20th. Heavy storm of rain at 9 p.m.

September.

Showery and mild.

- 7th. Heavy rain 7 to 8 a.m.
- 19th. Very heavy rain 8 to 9 p.m. 'Receiver was full so that did not know how much had run over'.

A good harvest.

October.

Wet and mild.

- 5th. 'said to be a Frost'.
- 7th. 'House very damp'.
- 9th. 'House drier'.
- 25th. 'Great dew'.
- 31st. Hoar frost
- 31st. Aurora (slight) midnight.

(\*) i.e. for the rain gauge.

March.

Cold and dreary.

- 3rd. Stormy.
- 5th. to 12th. Frosty periods.
- 6th. A hard storm of snow set in. 5 p.m.
- 7th. Slight aurora 9 p.m.
- 12th. Since 4th. in places exposed. to the sun thawed. nearly as much by day as froze by night: but in shade it hardly thawed. till to-day: so that 1st. of snow was. fell on 6th. & 7th. not melted.
- 13th. Heavy storm of rain.
- 14th. Hail on hills at 4. 'Wetlands begin to look green'.
- 15th. Aurora 10 p.m.
- 17th. Frosty.
- 22nd. to 30th. Hardly thawed. in shade on 22nd. & 24th. & 26th. certainly not to day - fields not so green as 10 days ago.
- 25th. Hail round Noon. 10 p.m.
- 27th. Snow storm (wind at SE) 1 p.m. - snow 5 p.m. (wind at SW). Heavy. 2 hours - snow at midnight over 2 ins. deep.

April.

Cold and dry.

- 5th. Some snow lay on hills till to-day. Surface of ground dry & grass dry & withered. except in moist places.
- 11th. Roads very dusty.
- 14th. Hail 4 p.m.
- 16th. Heavy snow 6 p.m.
- 22nd. Wetlands begin to look green. Leaves appear on some trees.
- 24th. Hail (morning).
- 26th. Report of phenomenon of 5 bars about 3 a.m.
- 27th. A circle round sun
- 28th. Some hail (after.).

May.

Dry and mild.

- 6th. Heavy storm 7 p.m.
- 7th. 'Witch Edges begin to put forth their leaves. Barley sprang up very regularly'. (\*)
- 7th. Aurora (slight) 11 p.m.
- 9th. Heard the cuckow to day. been heard by other people 4 or 5 days before.
- 12th. Beech trees begin to put forth their leaves.
- 13th. Aurora (considerable) 10 p.m. 'Reported to be afterwards so great as to form a red canopy'.
- 14th. Rainbow 7 p.m.
- 15th. Thunderstorm (noon) - heavy storm. Thunder with rain and hail 4 p.m. Both thunderstorms from South.
- 25th. Apples begin to blow.
- 27th. and 28th. 'Receiver, being a wooden one, so much dried, that the water ran out betwixt the joints of the Staves, so that these two Quantities are by computation. The rain not sufficient to make the Roads dirty, only to lay the dust and enter about one inch in the Gardens'.

(\*) 'Witch Edges' are the Hedges of Wattle Bramwood.

November.

Mild on the whole; no lasting frosts.

- 1st. Aurora (slight) at midnight.
- 4th. Hail storms.
- 12th. 'House very damp'.
- 13th. 'House dry'.
- 13th. 'Halo round moon from which luminous rays diverged, 8 p.m.'.
- 15th. 'House damp'.

Very little Cyder made this season.

December.

Mild and rainy, with but little frost.

- 9th. 'Receiver overflowed' House damp.
- 10th. 'House drier'.
- 11th. 'House damp'.
- 12th. 'Strong winds during night 11th. - 12th.
- 19th. Heavy rain, 4 a.m.
- 20th. Heavy rain (morning). 'House damp'.
- 21st. 'House drier'.
- 23rd. 'House damp'.
- 26th. 'House very damp'.
- 27th. Heavy hail storm.

January.

A good deal of snow and some sharp frosts.

- 7th. Snow heavy for half an hour.
- 8th. Snow for an hour or two.
- 11th. 'House very damp'.
- 12th. 'Morning rimy.....forenoon rimy....afternoon less rimy'.
- 13th. 'House dry'.
- 13th. Halo round moon.
- 15th. 'Morning exceedingly foggy' 'House very damp'
- 16th. Snow in morning, part of which thawed in forenoon, and afternoon froze.
- 17th. 'House dry'.
- 19th. Heavy snow for an hour.
- 20th. Rimy.

February.

Frosty at first and milder later: a good deal of snow.

- 1st. Snow with high wind. 'Roads filled with snow in some places'.
- 3rd. Heavy snow 2 or 3 hours.
- 8th. Temp. 7 a.m. outdoors 19°, noon outdoors 28°, 5p.m. 22°. 'Simple water froze when poured into the mortar.'
- 7th. 'House very damp'. Thaw commenced.
- 8th. 'House exceedingly damp'. 'Brooks full'.
- 10th. 'Thaw finished except some Snow on Hills etc.'
- 11th. 'House drier'.
- 24th. Sleet at 8 p.m.
- 25th. 'House very damp'.
- 29th. 'House dry'.

Seasonable, without excessive heat.

Hard storm of rain, 5 p.m.  
Midnight, Aurora Borealis (considerable)  
coming almost from every point, least from  
South and forming a canopy.  
Aurora (slight) at 10 p.m.  
Apple trees said to be much blighted.  
Aurora (slight) at 10 p.m.  
Aurora (slight) at 10 p.m.  
Aurora (slight) at 10 p.m.  
Some grass mowed.  
Some thunderstorms reported to have been a  
few miles off.  
Thunder heard at a distance.  
Heard a cuckoo four or five days ago.  
Did not observe it (i.e. temperature) on  
any day at noon higher than 77. Few people  
have mowed their grass except near the town.

July. Generally dry except in the last week.

|        |        |     |
|--------|--------|-----|
| Temp.  | Room   | 73° |
| 8 p.m. | 75°    |     |
| 8 p.m. | 78°    |     |
| 8 p.m. | 71°    |     |
| Temp.  | 8 p.m. | 68° |
| 8 p.m. | 72°    |     |

'Bad, a Tin Receiver'.  
'A good deal of grass yet to be cut: crops  
in general very short.'

August. Cool and showery.

Heavy storm of rain at 9 p.m.

September. Showery and mild.

Heavy rain 7 to 8 a.m.  
Very heavy rain 8 to 9 p.m. 'Receiver was  
told so that did not know how much had run  
over.'

A good harvest.

October. Wet and mild.

'Said to be a frost'.  
'House very damp'.  
'House drier'.  
'Great dew'.  
Heavy frost.  
Aurora (slight) midnight.

(\*) i.e. for the rain gauge.

November. Mild on the whole; no lasting frosts.

1772

March.

Rather wintry, but no severe frosts. A good many observations missed this month.

- 5th. Two or three showers rain & hail.
- 14th. 'Hard frost, thawd. very little within doors.'
- 14th. 'Roads dusty'.
- 14th. 'Some of the snow which fell on Feby. 1st. still to be seen here & there on Hills'.
- 17th. Snow three or four inches deep.
- 20th. Snow gone. Hail.
- 22nd. Heavy storm of rain, 3 p.m.
- 25th. Heavy storm of rain, 4 p.m.
- 26th. Heavy storm of rain and hail, noon.

April.

Wet.

- 1st. Heavy snow until the latter part of the afternoon 'which thawd. almost as soon as fell'.
- 3rd. Aurora, 8 p.m.
- 8th. 'House very damp'.
- 9th. 'House dry'.
- 18th. Hail.

May.

First half of the month dry, latter half wet.

- 28th. May to 16th. June. A rainless period.
- 2nd. Roads very dusty, frith edges considerably foliated heard the cuckow'.
- 6th. Beech trees begin to foliate.
- 9th. Therm. 38° at 5 a.m.
- 15th. 'Said to be a smart frost this morning, and a frost every morning lately'.
- 28th. Great Dew.

June.

Cool until the 8th.: afterwards warm.

- 1st. Apple trees in full bloom.
- 3rd. Slight aurora.
- 6th. Apple trees said to be much blighted.
- 19th. 72° at 8 p.m.
- 20th. At 1 p.m. heavy thunderstorm from South.
- 26th. 72° at 8 p.m.
- 27th. Heavy storm of rain at 2 p.m. 'Went to Cromhill next morning and found there had been no rain beyond Watsham. Dr. B. said there was no rain at Petty France'.
- 27th. Flies exceedingly troublesome'.
- 28th. 'Said to be a frost' (60° at 5 a.m.)
- 30th. 'Said to be a frost'. (59° at 5 a.m.)

Hay making late.

July.

Cool with some heavy rains.

- 18th. 'From reports seems to have been more rain in other places'.
- Contd.

## July, contd.

- 20th. 5 p.m. 2 very heavy Thunderstorms from SW with large hail immediately succeeding each'.  
'Receiver full'.  
27th. Heavy thunderstorm 8 a.m.  
30th. Aurora 10 p.m.  
31st. A fine hay-making but small crop.

## August.

On the whole a cool month.

- 1st. Great Dew. 'House damp'.  
31st. Heavy rains.

Wheat harvest very fine.

## September.

Mild and very wet.

- 9th. Heavy rain in early morning, 'receiver being full'. A thunder clap, 5 a.m.  
14th. 'Clap thunder, 8 p.m.'  
15th. Rimy. (Temp. 54° at 7 a.m.)  
20th. Great Dew.  
24th. Night of 24th. - 25th. very stormy, 'many trees blown up'.  
29th. 'House very damp'.  
30th. 'Some grass not yet mowed'.

## October.

Warm and wet.

- 2nd. Aurora, 10 p.m.  
5th. 'House dry'. Halo round moon.  
6th. 62° at 9 a.m., 61° at noon.  
12th. Heavy rain in early morning.  
29th. Heavy rain - 'House damp'.  
30th. 'House dry'.  
31st. 'Happd. to leave Cock of Recr. open, the wr. ran out: computed to be 2 or 300'. (\*)

Greater part of Barley much damaged by rain.

## November.

Exceptionally wet: scarcely a day without some precipitation: mild.

- 8th. 'House dry'.  
10th. Heavy rain in early morning.  
11th. Stormy day.  
20th. 'House damp'.  
22nd. 'House dry'.  
23rd. Stormy morning - storms of rain and hail at night.

Hardly any Cyder made.

(\*) i.e. 0.2 or 0.3 inch of rain.

1772

December.

Very mild until the 21st. and by no means cold after that date.

- 1st. 'House very damp'.
- 2nd. 'House dry'.
- 4th. Rimy.
- 9th. 'House damp'.
- 10th. 'House very damp'.
- 11th. 'House dry'.
- 12th. 'House very damp'.
- 13th. 'House dry'.
- 19th. 'House damp'. 50° at 8 a.m.
- 20th. 'From Mildness of Season, several Trees in Blossom'. 50° at 4 p.m.
- 22nd. 'House dry'.
- 24th. Aurora, 9 p.m.
- 25th. Rimy.
- 27th. Rimy.
- 30th. Frost on the Hills.

1773

January.

Mild, very little frost.

- 7th. Very foggy in vale, clear on Hills.
- 11th. 'House very damp'.
- 20th. Stormy.
- 24th. Aurora.
- 28th. to 29th. Barometer rose one inch in 24 hours.
- 29th. Halo round Moon, 6 p.m.
- 31st. Halo round moon, 9 p.m.

February.

Cold until 13th., then milder.

- 11th. Snow three or four inches deep.
- 15th. 'House damp'.
- 19th. Rimy.
- 21st. Heavy rain in night and early morning.
- 23rd. 'House damp'.
- 25th. - 26th. Stormy night. Barometer fell 1 inch in 11 hours.

March.

Dry and on the whole, mild. Only 0.2 inch of rain fell after the 11th.

- 26th. Slight aurora.
- 30th. Slight aurora.

April.

Showery: warm at the end of the month.

- 6th. A shower or two of hail.
- 24th. Heard Cuckow.
- 25th. Beech begin to foliate.

May.

Wet: last two or three days of the month, hot.

- 1st. Hail.
- 2nd. 'Said to be a hard frost'. (45° at 7 a.m.)
- 2nd. Frequent heavy showers of hail, snow or sleet
- 3rd. Frequent showers of hail and sleet.
- 10th., 11th. and 20th. Heavy rains.
- 30th. Temp. 70° at noon. Circle round sun, noon.

# June.

Cool

- 9th. Rimy.
- 13th. Lightning.
- 14th. 7 p.m., heavy Thunderstorm with some hail.
- 19th. Hail.
- 26th. Heavy thunderstorm to the West.

# July.

Seasonable weather.

- 13th. Temp 81° at 4 p.m.  
72° at 8 p.m.
- 16th. Temp. 77° at 1 p.m.  
70° at 8 p.m.
- 17th. Thunder, a very sudden short shower of rain  
at 7 p.m., much lightning.
- 30th. Heavy rain.

# August.

Very warm until the 14th. and then cooler.

- 6th. 78° at 3 p.m.
- 8th. 71° at 7 p.m.
- 9th. 81° at 2 p.m., 74° at 7 p.m.
- 13th. Lightning.
- 18th. Heavy rain and stormy wind.

# September.

Warm, with a good deal of rain.

- 2nd. Heavy thunder storm.
- 7th. Thunder storm.
- 13th. Some thunder storms.
- 18th. Heavy thunderstorm at 4 p.m.
- 21st. 'House damp'.
- 21st. and 22nd. Heavy rains.
- 27th. Slight aurora.

# October.

Mild and wet.

- 10th. Heavy rain in the early morning.
- 17th. Lightning, afternoon. Heavy thunderstorm  
at night. 'Thunder and lightning continued  
3 or 4 hours: a Waggon House set on fire by  
it at Leighterton'. Heavy rain.
- 19th. Aurora.
- 29th. Heavy rain early with high wind. 'Receiver full'.

# November.

Mild and wet.

- 2nd. - 3rd. Heavy rain in the night.
- 15th. Stormy morning.
- 24th. Snow or sleet in early morning.
- 24th. - 25th. Considerable snow in night.
- 25th. Heavy snow.

# December.

Wet, but not cold.

- 24th. Snow at night.
- 29th. Rimy.

1773

# January.

There are practically no observations after the 20th. and we have the note:-  
'Removd. to Stroud & Insts. not being fixd.  
Register discontinued.'

- 1st. Considerable snow in evening, 2 or 3 inches deep.
- 8th. - 9th. Heavy rain in the night.
- 9th. Snow.
- 11th. Aurora.
- 19th. Halo round moon at 6 p.m.
- 24th. Aurora.

The Year. 'A fine Summer. A large Quantity of Cyder'.

1775

# January.

Mild: last few days stormy.

- 8th. 50° at noon.
- 11th. 50° at 4 p.m.
- 20th. Snow.
- 25th. Snow.
- 26th. Snow three or four inches deep.
- 29th. - 31st. Stormy period.

# February.

Mild.

- 1st. Smart shower of rain and hail, 8 p.m.
- 16th. High winds, morning.

# March.

Cold, especially during the latter half of the month.

- 2nd. Hail.
- 3rd. At 2 or 3 p.m. slight showers of hail.
- 8th. At 2 p.m. shower of hail.
- 12th. Now and then a shower of hail.
- 13th. Frequent showers of hail.
- 26th. Frequent showers of Hail and Snow.
- 29th. Frequent show.
- 30th. Frequent snow and hail.

# April.

Dry: cold at first but warmer towards the end.

- 20th. Noon, circle round sun.
- 25th. Beech begin to foliate.
- 28th. 69° at 2 p.m.
- 29th. 70° at 4 p.m.

# May.

Very dry.

- 31st. 66° at 8 p.m.

June.

Warm and thundery at first, but cooler towards the end of the month.

- 6th. At 5 p.m. heavy thunderstorm from South.
- 7th. Thunderstorm from South-East, 4 p.m.
- 9th. Heavy thunderstorm at 9 p.m.; thunderstorms during night.
- 28th. Afternoon, frequent showers of rain, some with Thunder.
- 29th. Heavy thunderstorm, 11 a.m.

July.

Wet.

- 6th. Heavy rain.
- 14th. Thunder.
- 27th. Thunder.
- 28th. Heavy rain.
- 29th. Heavy thunderstorm at noon.

August.

Cool and very wet.

- 2nd. Heavy thunderstorms and rain.
- 21st. Heavy showers of rain.
- 22nd. Heavy rain in the early morning.
- 29th. Frequent heavy thunderstorms.

A good deal of Hay not yet made.

September.

A warm month, especially the latter part.

- 5th. Heavy thunderstorm, 7 p.m.
- 6th. Lightning, 9 p.m.
- 8th. 'A shock of an Earthquake felt at 10 sufficiently strong to wake some people out of sleep'.
- 20th. Much lightning (evening).
- 23rd. 64° at 6 p.m.
- 25th. Thunder to East at a distance, afternoon.

October.

Seasonable, with occasional frosts

- 19th. 'Evening tempestuous, sometimes thunder, rain, hail. Night, high wind'.
- 20th. High winds.

Barley harvest very indifferent.

November.

Average November weather with but little frost.

- 14th. Smart shower of snow.
- 29th. 'House very damp'.

A moderate quantity of Cyder made.

December.

Mostly dry without severe frost

- 5th. 'In the clouds, 2 or 3 p. coming from Misenden' (\*)
- 14th. 'House damp'.
- 23rd. Stormy day, frequent showers of rain. 1 or 2 heavy showers of hail with thunder at Noon.

(\*) I am unable to elucidate this note.

January.

Much snow and very frosty. No temperature above 30° recorded from 12th. to the 31st.

- 7th. Snow.  
 8th. Heavy Snow. 'Roads filled with snow'.  
 10th. Snow.  
 11th. Snow, 4 or 5 inches deeper than before.  
 12th. Snow and frost increased.  
 13th. Frequent snow.  
 14th. Much snow, frost increased.  
 15th. Many roads impassable.  
 16th. Little snow, frost increased.  
 19th. Snow. 'Three posts due from London'.  
 20th. Aurora.  
 21st. Aurora.  
 22nd. 'Our Coach not travelled this fortnight past till this day'.  
 26th. 22° at 8 a.m.; 19° at 8 p.m.  
 27th. 17° at 8 a.m.; 14° at 4 p.m. Little snow.  
 28th. 15° at 9 a.m.; 16° at 4 p.m.  
 29th. 12° at 8 a.m.; 19° at 4 p.m. 'Simple waters freeze in ghop'.  
 30th. 13° at 8 a.m.; 11° at 4 p.m.  
 31st. 13° at 8 a.m.; 19° at 4 p.m.  
 1.160 inches of Rain entered to this day, being apparently the equivalent of the snow fallen since the 7th.

February.

Wet and stormy, with but little frost.

- 1st. Thaw commenced. 'Rain that first fell froze'.  
 4th. - 5th. Rain and hail with thunder in the night.  
 5th. Now and then slight snow. 5 to 6 p.m. some thunder.  
 6th. - 7th. Stormy night.  
 11th. Hail.  
 17th. Heavy snow.  
 18th. Snow.  
 19th. Aurora Borealis, 7 p.m.  
 23rd. Aurora.  
 27th. Snow.  
 29th. Some of the snow still to be seen on the hills.

March.

Mild.

- 1st. Snow.  
 3rd. Snow.

April.

Mild, calm and dry.

- 8th. Afternoon, showers of hail.  
 18th. Beech begin to foliate.

May.

Cool, but some hot days at the end of the month.

- 5th. Stormy: storms of hail.  
 6th. Now and then, hailstorm.  
 8th. Frequent storms of hail and rain.  
 17th. Showers of rain and hail.  
 29th. 62° at 9 p.m.  
 30th. Sultry.

June.

On the whole a cool month.

- 7th. Heavy shower of rain and hail.
- 19th. and 20th. Exceedingly hot.

July.

Seasonable.

- 13th. Heavy thunderstorm, 2 p.m.
- 28th. Exceedingly hot.
- 30th. Eclipse of the Moon, 11 p.m.
- 31st. Exceedingly hot.

Hay making difficult.

August.

Wet: hot at first but cooler later.

- 1st. Hot: 70° at 8 p.m.
- 2nd. Hot: 69° at 8 p.m.
- 5th. 'Considerable quantity of rain towards the Severn'.
- 6th. Heavy thunderstorm, 4 p.m.
- 11th. and 12th. Very wet days.
- 29th. Heavy rain.

September.

First few days wet, but the rest of the month dry.

- 1st. Very wet night and early morning. 0.82" rain measured at 8 a.m. 'perhaps somewhat more as Receiver leaked at where additional Piece put on.'
- 2nd. Wet night and early morning.

Harvest, first part bad, latter part good.

October.

Mild.

November.

Mild at first but colder towards the end of the month: very little frost.

- 20th. Stormy day.
- 23rd. - 24th. Heavy rain in the night.

December.

Very mild until the 17th. but colder from the 18th. onwards, especially the last few days.

- 1st. Stormy morning.
- 18th. A little snow.
- 24th. At 2 p.m. a smart shower of rain with gusty wind.
- 27th. A little snow at noon.
- 30th. 10 a.m., snow showers.
- 31st. A considerable fall of snow at night.

A very large quantity of Cyder.

January. A good deal of snow at first but fine afterwards.

- 1st - 6th. Now and then a little snow.  
8th. Considerable snow in the early morning. Five or six inches deep at 8 a.m.  
12th. At noon, very heavy storm of rain.  
27th. 'Happened to leave the cock open: quantity of rain supposed to be about .100'.

February. Cold but no severe frosts.

- 3rd. 2 p.m., shower of hail.  
5th. and 6th. Snow.  
9th. A little snow.  
10th. Rime frost.  
16th. to 28th. Observations missing, observer in London. The rain gauge was collecting in the interval and ran over at 0.871 ins.

March. Cold and frosty until the 17th, but very mild afterwards.

- 9th. Snow.  
13th. Frequent snow.  
26th. 60° at 6 p.m.  
27th. 63° at 6 p.m.  
29th. Now and then a little snow.

April. Dry and calm at first, but windy and wet later.

- 6th. 'A remarkable fiery stream extended from NE to SW and brightest in centre from about  $\frac{1}{2}$  after 8 to about  $\frac{1}{4}$  after 9: the light seemed permanent not flashy like the Aurora Borealis'  
21st. - 24th. A very wet period.  
25th. Heard cuckoo.  
25th. Smart showers of hail.  
30th. Beech begin to foliate.

May. Wet.

- 3rd. Some hail.  
19th. Heavy showers rain and hail, 2 or 3 p.m.

June. Cool and wet.

July. Wet.

- 2nd. - 4th. No observations  
12th. Sultry.  
16th. - 18th. Sultry and exceedingly hot.  
23rd. Frequent showers of rain some with thunder.  
29th. 6 p.m., very heavy shower rain.

Hay ~~har~~vest bad.

August. Cool except for a warm spell in mid-month.

- 8th. Thunderstorm in evening.  
9th. Thunderstorm in morning.  
28th. Smart showers of rain with thunder.

1777

September.

Calm, dry and seasonable.

Corn harvest very good.

October.

Wet, especially the last few days.

28th. and 29th. Very wet days.

November.

Cold but not frosty.

15th. Rimy.

Little or no cyder made.

December.

Dry.

4th. Snow.

31st. Snow.

1778

January.

Cold and foggy but no long frosts.

5th. A little snow.

11th. Snow.

14th. Snow in the morning.

19th. Some hail.

20th. Frequent heavy showers some with lightning.

February.

Very little frost.

14th. Slight showers of hail and snow.

16th. and 17th. Snow.

23rd. Hail.

27th. Heavy snow in the afternoon.

March.

Dry.

26th. Aurora Borealis, 8 p.m.

April.

Mild until the 20th., cooler afterwards.

9th. 60° at 8 p.m.

20th. Snow.

22nd. Considerable fall of snow.

No observations from 22nd. to 30th.

May.

Wet and cool.

4th. Beech begin to foliate.

16th. Heard cuckow.

June.

Cool at first but warmer at the end of the month.

4th. Shower of hail.

15th. Hail and thunder, 3 p.m.

Contd.

# June, contd.

- 24th. Eclipse of the sun (afternoon)
- 24th. Lightning in afternoon and at night with Thunder.
- 27th. Thunder.
- 29th. Very heavy shower with thunder, 5 p.m.

# July.

Dry until the 20th., but very wet afterwards.

- 12th. - 14th. Hot days.
- 13th. 73° at 8 p.m.
- 20th. and 21st. Very wet days. Receiver ran over both days.
- 20th. Two or three heavy thunderstorms in the forenoon.
- 26th. Afternoon, two or three thunderstorms.
- 31st. Noon, heavy shower of rain with thunder.

Large quantity of hay and most of it well made.

# August.

Generally cool, and very dry.

# September.

Cool and foggy.

- 17th. Frequent showers of rain and hail.
- 21st. Aurora Borealis.
- 22nd. Aurora Borealis.
- 27th. Slight aurora Borealis.

The corn harvest very fine and finished a month sooner than usual.

# October.

Seasonable weather.

- 14th. Aurora.
- 27th. Snow.

# November.

Wet and mild.

- 26th. Stormy.

Some orchards produced a good crop of fruit, others none.

# December.

Wet and mild.

- 4th. 'Receiver ran over.'

# January.

Dry and foggy: no rain until the 19th.

- 13th. A little snow.
- 26th. Snow.

1779

1778

February.

Mild and dry: a good deal of fog.

28th. Vegetation remarkably forward.

March.

Mild and dry.

21st. 2 p.m., slight showers of hail.

31st. Foliation of trees, etc., observed to be about three weeks sooner than usual.

April.

Cool and showery.

10th. Beech begin to foliate.

15th. Lightning in late evening.

22nd. 'Receiver ran over'.

24th. Heavy storm of hail with thunder, 6 p.m.

26th. Afternoon, frequent showers of rain, some with hail and with high gusts of wind.

27th. Frequent showers of rain and hail.

28th. Heavy showers of hail and rain, 5 p.m.

May.

Cold at first, with frost, but much warmer after the 15th.

2nd. - 4th. Frosty period. 'Vegetables much hurt and some killed by frost'.

2nd. Slight shower of hail, 5 p.m.

3rd. Some snow.

6th. Frequent showers of rain with gusts of wind.

6th. Heard cuckoo.

7th. Frequent heavy showers of rain, some with hail.

8th. Shower or two of rain with gusts of wind.

June.

Cool.

8th. Thunder (afternoon).

9th. Thunder (afternoon).

A fine hay harvest.

July.

Cool at first with a hot spell from the 10th to the 18th.

11th. - 16th. Temp. above 70° at 8 p.m. each day.

19th. Thunder at a distance.

25th. Thunder at a distance.

30th. Heavy rain with thunder.

August.

Dry, calm and hot.

22nd. 5 to 7 p.m., several showers, some heavy, some with thunder.

A fine Corn harvest nearly finished.

September.

Warm

1st. Heavy rain with thunder (evening).

2nd. .02" rain. 'Supposed to be about the Quantity, the cock being left open and the water wasted'.

Contd.

# September, contd.

- 26th. At night, rain with thunder and high wind.  
27th. Forenoon, smart shower of rain with thunder.

# October.

Generally mild and wet.

# November.

Mild at first but colder after the 14th.

- 9th. Aurora.  
20th. A little snow.  
23rd. A little snow.  
23rd. 'Eclipse'.  
25th. Snow.  
27th. Heavy snow.

No Cyder made.

# December.

Wet and foggy: mild at first but cold and frosty after 23rd.

- 2nd. 'Houses very damp'.  
13th. 2 p.m., heavy showers of hail.  
21st. Snow.  
22nd. Snow, 3 p.m.  
26th. Temp. 20° at 8 a.m.  
27th. A little snow.

# January.

Cold and frosty.

Temperatures at 8 a.m.

|       |     |
|-------|-----|
| 9th.  | 21° |
| 10th. | 19  |
| 11th. | 21  |
| 12th. | 24  |
| 13th. | 19  |
| 14th. | 22  |
| 15th. | 22  |

|       |    |
|-------|----|
| 22nd. | 22 |
| 23rd. | 17 |
| 24th. | 25 |
| 25th. | 22 |
| 26th. | 26 |
| 27th. | 26 |
| 28th. | 24 |

- 20th. Snow.  
21st. Snow.  
30th. A little snow.

1779

1780

February.

Occasional sharp frosty periods.

- 1st. A little snow.
- 2nd. Now and then little snow.
- 19th. A little snow.
- 20th. Now and then a little snow.
- 22nd. Considerable snow.
- 23rd. Temp. 23° at 7 a.m.
- 24th. - 25th. Strong winds during the night.
- 26th. Snow in the morning. Temp. 27° at 7 a.m.
- 29th. Aurora.

March.

Cold at first, but the last few days of the month very mild.

- 2nd. Aurora.
- 3rd. Now and then showers of hail and rain.
- 15th. At 1 p.m., shower of hail.
- 22nd. Smart shower of hail, 11 a.m.
- 28th. Hail and thunder, 5 p.m.

April.

Cold and frosty at first but milder towards the end of the month.

- 4th. Frequent showers of hail some with snow.
- 5th. Frequent showers of hail.
- 6th. Showers of snow.
- 7th. Temp. 29° at 8 a.m.
- 8th. Frequent showers of hail and snow.
- 9th. Now and then a little hail and snow.
- 11th. Now and then a little hail.
- 17th. Now and then showers of hail.
- 18th. Slight showers of snow at 8 p.m.
- 19th. Heard cuckoo.
- 19th. Frequent showers of rain and hail.
- 22nd. to 24th. Frequent heavy showers of rain, some with hail.

May.

Cool generally, but a warmer spell near the end of the month.

- 1st. Beech begin to foliate.
- 22nd. Apple trees in full bloom.
- 29th. 68° at 8 p.m.

June.

Cool until the 24th., then warmer.

- 1st. Morning, two or three successive thunderstorms, the last with heavy rain from SW. Thunder in afternoon: about 5 p.m., heavy thunderstorm.

July.

Seasonable, but no excessive heat.

- 22nd. Heavy rain: two or three successive thunder storms.
- 28th. Aurora.

August.

On the whole cool and dry.

- 8th. Thunder in the distance, morning.
- 9th. 4 p.m., heavy thunderstorm with hail from SE.

February.

Occasional sharp frosty periods.  
1st. A little snow.  
2nd. Now and then little snow.  
3rd. A little snow.  
4th. Now and then a little snow.  
5th. Considerable snow.  
6th. Temp. 22° at 7 a.m.  
7th. Strong winds during the night.  
8th. Snow in the morning. Temp. 27° at 7 a.m.  
9th. Antares.  
10th.

March.

Cold at first, but the last few days of the month very mild.  
1st. Antares.  
2nd. Now and then showers of hail and rain.  
3rd. At 1 p.m., shower of hail.  
4th. Smart shower of hail, 11 a.m.  
5th. Hail and thunder, 5 p.m.

April.

Cold and frosty at first but milder towards the end of the month.  
1st. Frequent showers of hail some with snow.  
2nd. Frequent showers of hail.  
3rd. Showers of snow.  
4th. Temp. 20° at 8 a.m.  
5th. Frequent showers of hail and snow.  
6th. Now and then a little hail and snow.  
7th. Now and then a little hail.  
8th. Now and then showers of hail.  
9th. Slight showers of snow at 8 p.m.  
10th. Heard cuckoo.  
11th. Frequent showers of rain and hail.  
12th. Frequent heavy showers of rain, some with hail.  
13th.

May.

Cool generally, but a warmer spell near the end of the month.  
1st. Beech begin to foliage.  
2nd. Apple trees in full bloom.  
3rd. 22° at 8 p.m.

June.

Cool until the 24th, then warmer.  
1st. Morning, two or three successive thunderstorms, the last with heavy rain from SW. Thunder in afternoon: about 5 p.m., heavy thunderstorm.

July.

Seasonable, but no excessive heat.  
1st. Heavy rain: two or three successive thunderstorms.  
2nd. Antares.  
3rd.

August.

On the whole cool and dry.  
1st. Thunder in the distance, morning.  
2nd. 4 p.m., heavy thunderstorm with hail from SE.

0 8 7 8 0

September.

Wet: hot at first, but cold to finish with.

8th. Evening, heavy thunderstorm.  
10th. and 11th. Very wet days. 'Almost constant rain, sometimes gentle, sometimes close, frequently very heavy showers'. 'Receiver ran over'. 1.7 inch fell in all.  
17th. 3 p.m., heavy storm of rain.  
30th. 1 p.m., heavy storm of rain and hail.

A fine harvest.

October.

On the whole, mild.

1st. Evening, showers sometimes with thunder.

November.

Cold, with one frosty period in the mid-month.

6th. Considerable showers of snow.  
7th. Now and then, snow.  
9th. Rimy.  
13th. to 18th. inclusive. A very frosty period. No observations, observer ill.  
20th. Heavy snow and rain.  
21st. 'Receiver ran over'.  
21st. - 22nd. Snow during the night.  
24th. Snow at night.  
29th. Rimy.

Much Cyder made.

December.

Very calm and dry, no hard frosts.

20th. Gentle snow.  
21st. Gentle snow.  
23rd. Slight snow at night.  
28th. Rimy.

1 7 8 1

January.

Cold, but no severe frosts.

4th. Rimy.  
23rd. Snow in early morning, 5 or 6 inches deep.  
24th. Evening, little snow.  
28th. Stormy.

February.

Mild, stormy and wet.

11th. to 13th. Stormy period.  
11th. Afternoon tempestuous: evening tempestuous with heavy rain and hail.  
13th. Lightning (evening) 'Receiver ran over'.  
17th. Now and then a little hail and rain.  
21st. Gentle snow.  
27th. Stormy.

March.

Very dry: mild at first, but cold and windy at the end of the month.

Contd.

March contd.

27th. Now and then a little snow or hail.  
28th. Frequent showers of hail.  
28th. and 29th. Aurora.  
31st. Hail.

April.

Changeable.

18th. Heard cuckow.  
20th. Beech begin to foliate.  
25th. Aurora Borealis.

May.

Cold at first: but the last week of the month much warmer: dry.

14th. Heavy thunderstorm, forenoon.  
31st. 72° at 8 p.m.

June.

Cold at first but warmer later.

3rd. Frequent thunderstorms in the afternoon.  
7th. In afternoon, successive thunderstorms.  
19th. Thunder at a distance.  
20th. Successive thunderstorms.

July.

Cool and calm.

Haymaking partly good, partly bad.

August.

Seasonable.

11th. Lightning.  
30th. 10 p.m., thunderstorm: a dull rainbow afterward in the NE opposite the moon.

September.

Warm and wet.

5th. 'Receiver ran over'.  
15th. 6 p.m., heavy thunderstorm, constant lightning.  
23rd. Very fine, aurora borealis.  
24th. 3 p.m., heavy showers of rain and hail.  
29th. and 30th. No observations. Observer in London.

October.

Very dry.

1st - 11th. No observations. Observer in London.  
15th. Aurora.

November.

Wet.

5th. 'House very damp'. 'A general complaint of scarcity of water'.  
6th. Successive smart showers of rain, some with Thunder.  
11th. 'House very damp'.  
14th. Tempestuous night.  
16th. Aurora.

No Cyder made.

December. Mild.

7th. A little snow.  
27th - 28th. Tempestuous night.

January.

Very mild: windy.

16th. Stormy evening.  
29th. Slight shower of snow.  
30th. Snow.

February.

Cold and frosty until the 13th., then milder: dry.

11th. Snow, evening.  
13th. Gentle snow.  
14th. Snow (night).  
17th. Little snow.  
20th. Snow in the early morning.

March.

Windy and cold.

7th. Evening, 2 or 3 heavy showers of rain and hail with tempestuous wind.  
8th. Snow, sometimes heavy - tempestuous.  
12th. Stormy day.  
15th. Now and then slight showers of snow.  
21st. Considerable snow.  
22nd. Snow.  
23rd. Now and then smart showers of snow.  
24th. Snow.  
28th. 'Receiver ran over'.

April.

Cold.

3rd. Slight shower or two of snow.  
4th. Syringa tree begins to foliate.  
5th. Heavy showers of hail and rain.  
6th. Now and then slight showers of rain and hail.  
12th. Heavy showers of rain and snow.  
14th. Heavy snow (morning). Now and then showers of rain and hail (evening).  
25th. Heard cuckow.

May.

Wet and cold.

10th. 2 and 3 p.m. smart showers of rain and hail.  
12th. Frequent showers of hail and rain.  
13th. Beech begin to foliate.  
25th. Frequent showers of rain, one heavy with hail.  
28th. 6 p.m., heavy thunderstorm.

June.

Seasonable with a hot spell in mid-month.

6th. Apples in very full blow.  
18th. 10 p.m., thunder at a distance.

July.

On the whole, cool and wet.

16th. Thunder at a distance.  
17th. 'Receiver ran over'.

1782

# August.

Cool and wet.

3rd. Thunder at a distance.  
16th. Stormy.

'Hay making not finished - corn harvest just begun - vegetables in general growing very slowly - little or no wall fruit'.

# September.

Dry until the 15th., then very wet.

16th. 10 p.m., 1.02 inches of rain measured, 'recr. ran over'. Thunder at a distance.  
22nd. 'Receiver ran over'. Frequent heavy showers of rain, some with thunder.  
30th. Aurora.

'A fine wheat harvest, very little barley cut'.

# October.

Mild.

3rd. Tempestuous.

Barley harvest but just finished. About  $\frac{1}{2}$  Crop Apples which run very small and like all fruits very late ripened.

# November.

Cold but not frosty.

1st. Slight showers of sleet, hail and snow.  
5th. Snow.  
7th. Aurora.  
23rd. Snow.  
25th. Snow.  
30th. Snow removed from one to three feet deep under walls, etc.

# December.

Dry and calm: mild.

9th. Rimy.  
17th. House damp.

1783

# January.

Wet and mild.

3rd. Now and then a little snow.  
4th. 'House very damp'.  
12th. Heavy shower of rain and hail.  
13th. 3 p.m., smart showers of hail and rain.  
14th. 10 p.m., heavy thunderstorm.  
18th. Snow.  
20th. Heavy snow at night.  
22nd. Now and then snow.  
24th. A little snow.  
25th. 'House very damp'. Stormy.

1783

February.

Wet and mild.

- 2nd. - 14th. Very wet period.
- 8th. Great floods.
- 24th. 3 p.m., heavy shower of hail.
- 25th. Heavy snow.

March.

Changeable.

- 2nd. 10 a.m., little snow.
- 3rd. Morning, heavy snow.
- 5th. and 6th. Morning, heavy snow.
- 12th. Now and then a little snow.
- 18th. Moon eclipsed.
- 27th. Aurora Borealis.
- 31st. Some snow still remaining on Hills.

April.

Dry and mild.

- 21st. Beech begin to foliate.
- 21st. Slight showers of rain and hail.
- 26th. Aurora Borealis, great
- 27th. Aurora Borealis, great
- 29th. Aurora Borealis, slight.
- 29th. Heard Cuckow.

May.

Cold.

- 7th. Morning, snow and hail.
- 8th. 'Smart frost, many vegetables killed'
- 25th. 'Slight frost, some vegetables killed'.
- 26th. 'A chilblain on one finger'.
- 31st. 'Apples Trees not blown'.

June.

Cool on the whole but a few hot days near the end of the month.

- 4th. 3 p.m., Slight Thunderstorm.
- 16th. Thunder at noon.
- 23rd. - 30th. All foggy days.

A great blight during the foggy weather.

July.

~~August~~ Seasonable, a sultry spell, 9th. - 12th.

- 2nd. Thunderstorm in morning. 'Farmer Bumford's House at Rodboro. struck'.
- 10th. Lightning, evening.
- 12th. Constant lightning at night, a little Thunder with rain.
- 14th. 'Many accounts of damage done by lightning'.
- 20th. Lightning at night.

August.

First three days hot, but the rest of the month cool.

- 18th. 'A large luminous Meteor seen between 8 and 9 in the East passing from NW to S or SE'.
- 19th. Thunderstorms.
- 24th. Thunder (afternoon), lightning (evening).
- 26th. 4 p.m., thunderstorm.
- 31st. A fine crop of corn and a good harvest.

# September.

Mild and seasonable.

- 1st. Afternoon, thunderstorms.
- 3rd. Thunder at night.
- 10th. Eclipse (moon).
- 20th. Aurora Borealis.

Putrid fever prevails chiefly.

# October.

On the whole, mild.

- 7th. Hailstorm at noon.
- 22nd. Aurora Borealis.

No Cyder made.  
Dysentery very rife amongst poor.

# November.

Mild, scarcely any frost.

- 23rd. A little snow.
- 29th. and 30th. Rimy.

Dysentery still prevails.

# December.

Calm and dry: mild at first but cold at the close.

- 1st. Rimy.
- 5th. Rimy.
- 11th. and 12th. Rimy.
- 15th. and 16th. Rimy.
- 18th. A little snow.
- 19th. Rimy.
- 25th. A little snow.
- 26th. Snow.
- 29th. 19° at 8 a.m., 20° at 4 p.m. 'Waters freeze in shop but not distilled water.'
- 31st. Snow.

# January.

Dry, cold and frosty.

- 1st. 'In afternoon a small rain fell which froze on ground'.
  - 3rd. 'Part of Snow of 25th. Decr. remaining in bottom of Receiver had frozen and burst the bottom of it so that the rain lost: computed with the remaining snow at 0.500" '.
  - 8th. Gentle snow.
  - 12th. Rimy.
  - 13th. Rimy.
  - 16th. - 17th. Stormy night.
  - 18th. Little snow.
  - 19th. Frequent heavy snow.
  - 27th. Little snow.
- From 8 a.m. 19th. to 8 a.m. 31st., the temperature observed at 8 a.m. and 4 p.m. was under 30°. The lowest was 21° at 8 a.m. on the 24th. and at 8 a.m. on 30th.

1784

783

# February.

Hot and mild.

- 2nd. - 14th. Very wet period.
- 15th. Great flood.
- 16th. 3 p.m. heavy shower of hail.
- 17th. Heavy snow.

# March.

Changeable.

- 1st. 10 a.m. little snow.
- 2nd. Morning heavy snow.
- 3rd. Morning heavy snow.
- 4th. Morning heavy snow.
- 5th. Morning heavy snow.
- 6th. Morning heavy snow.
- 7th. Morning heavy snow.
- 8th. Morning heavy snow.
- 9th. Morning heavy snow.
- 10th. Morning heavy snow.
- 11th. Morning heavy snow.
- 12th. Morning heavy snow.
- 13th. Morning heavy snow.
- 14th. Morning heavy snow.
- 15th. Morning heavy snow.
- 16th. Morning heavy snow.
- 17th. Morning heavy snow.
- 18th. Morning heavy snow.
- 19th. Morning heavy snow.
- 20th. Morning heavy snow.
- 21st. Morning heavy snow.
- 22nd. Morning heavy snow.
- 23rd. Morning heavy snow.
- 24th. Morning heavy snow.
- 25th. Morning heavy snow.
- 26th. Morning heavy snow.
- 27th. Morning heavy snow.
- 28th. Morning heavy snow.
- 29th. Morning heavy snow.
- 30th. Morning heavy snow.
- 31st. Morning heavy snow.

# April.

Dry and mild.

- 1st. Breeze begin to fall.
- 2nd. Slight shower of rain and hail.
- 3rd. Aurora Borealis.
- 4th. Aurora Borealis.
- 5th. Aurora Borealis.
- 6th. Aurora Borealis.
- 7th. Aurora Borealis.
- 8th. Aurora Borealis.
- 9th. Aurora Borealis.
- 10th. Aurora Borealis.
- 11th. Aurora Borealis.
- 12th. Aurora Borealis.
- 13th. Aurora Borealis.
- 14th. Aurora Borealis.
- 15th. Aurora Borealis.
- 16th. Aurora Borealis.
- 17th. Aurora Borealis.
- 18th. Aurora Borealis.
- 19th. Aurora Borealis.
- 20th. Aurora Borealis.
- 21st. Aurora Borealis.
- 22nd. Aurora Borealis.
- 23rd. Aurora Borealis.
- 24th. Aurora Borealis.
- 25th. Aurora Borealis.
- 26th. Aurora Borealis.
- 27th. Aurora Borealis.
- 28th. Aurora Borealis.
- 29th. Aurora Borealis.
- 30th. Aurora Borealis.
- 31st. Aurora Borealis.

# May.

Cold.

- 1st. Morning snow and hail.
- 2nd. Great frost, many vegetables killed.
- 3rd. Slight frost, some vegetables killed.
- 4th. A child born on one finger.
- 5th. Apples trees not blown.
- 6th. Apples trees not blown.
- 7th. Apples trees not blown.
- 8th. Apples trees not blown.
- 9th. Apples trees not blown.
- 10th. Apples trees not blown.
- 11th. Apples trees not blown.
- 12th. Apples trees not blown.
- 13th. Apples trees not blown.
- 14th. Apples trees not blown.
- 15th. Apples trees not blown.
- 16th. Apples trees not blown.
- 17th. Apples trees not blown.
- 18th. Apples trees not blown.
- 19th. Apples trees not blown.
- 20th. Apples trees not blown.
- 21st. Apples trees not blown.
- 22nd. Apples trees not blown.
- 23rd. Apples trees not blown.
- 24th. Apples trees not blown.
- 25th. Apples trees not blown.
- 26th. Apples trees not blown.
- 27th. Apples trees not blown.
- 28th. Apples trees not blown.
- 29th. Apples trees not blown.
- 30th. Apples trees not blown.
- 31st. Apples trees not blown.

# June.

Cool on the whole but a few hot days near the end of the month.

- 1st. 3 p.m. Slight Thunderstorm.
- 2nd. Thunder at noon.
- 3rd. All rainy days.
- 4th. All rainy days.
- 5th. All rainy days.
- 6th. All rainy days.
- 7th. All rainy days.
- 8th. All rainy days.
- 9th. All rainy days.
- 10th. All rainy days.
- 11th. All rainy days.
- 12th. All rainy days.
- 13th. All rainy days.
- 14th. All rainy days.
- 15th. All rainy days.
- 16th. All rainy days.
- 17th. All rainy days.
- 18th. All rainy days.
- 19th. All rainy days.
- 20th. All rainy days.
- 21st. All rainy days.
- 22nd. All rainy days.
- 23rd. All rainy days.
- 24th. All rainy days.
- 25th. All rainy days.
- 26th. All rainy days.
- 27th. All rainy days.
- 28th. All rainy days.
- 29th. All rainy days.
- 30th. All rainy days.
- 31st. All rainy days.

# July.

A great blight during the foggy weather.

Excess seasonable, a sultry spell, 6th. - 12th.

- 1st. Thunderstorm in morning.
- 2nd. House at Redboro. struck.
- 3rd. Lightning evening.
- 4th. Constant lightning at night, a little Thunder with rain.
- 5th. Many accounts of damage done by lightning.
- 6th. Lightning at night.
- 7th. Lightning at night.
- 8th. Lightning at night.
- 9th. Lightning at night.
- 10th. Lightning at night.
- 11th. Lightning at night.
- 12th. Lightning at night.
- 13th. Lightning at night.
- 14th. Lightning at night.
- 15th. Lightning at night.
- 16th. Lightning at night.
- 17th. Lightning at night.
- 18th. Lightning at night.
- 19th. Lightning at night.
- 20th. Lightning at night.
- 21st. Lightning at night.
- 22nd. Lightning at night.
- 23rd. Lightning at night.
- 24th. Lightning at night.
- 25th. Lightning at night.
- 26th. Lightning at night.
- 27th. Lightning at night.
- 28th. Lightning at night.
- 29th. Lightning at night.
- 30th. Lightning at night.
- 31st. Lightning at night.

# August.

First three days hot, but the rest of the month cool.

- 1st. A large luminous Meteor seen between 8 and 9 in the East passing from W to E or SE.
- 2nd. Thunderstorm.
- 3rd. Thunder (afternoon), lightning (evening).
- 4th. Thunderstorm.
- 5th. 4 p.m. Thunderstorm.
- 6th. A fine crop of corn and a good harvest.
- 7th. A fine crop of corn and a good harvest.
- 8th. A fine crop of corn and a good harvest.
- 9th. A fine crop of corn and a good harvest.
- 10th. A fine crop of corn and a good harvest.
- 11th. A fine crop of corn and a good harvest.
- 12th. A fine crop of corn and a good harvest.
- 13th. A fine crop of corn and a good harvest.
- 14th. A fine crop of corn and a good harvest.
- 15th. A fine crop of corn and a good harvest.
- 16th. A fine crop of corn and a good harvest.
- 17th. A fine crop of corn and a good harvest.
- 18th. A fine crop of corn and a good harvest.
- 19th. A fine crop of corn and a good harvest.
- 20th. A fine crop of corn and a good harvest.
- 21st. A fine crop of corn and a good harvest.
- 22nd. A fine crop of corn and a good harvest.
- 23rd. A fine crop of corn and a good harvest.
- 24th. A fine crop of corn and a good harvest.
- 25th. A fine crop of corn and a good harvest.
- 26th. A fine crop of corn and a good harvest.
- 27th. A fine crop of corn and a good harvest.
- 28th. A fine crop of corn and a good harvest.
- 29th. A fine crop of corn and a good harvest.
- 30th. A fine crop of corn and a good harvest.
- 31st. A fine crop of corn and a good harvest.

## February.

Cold, dry and frosty until the 22nd., then milder and wet.

- 1st. Very many cough at Church.
- 1st. 8 a.m., 20°, 5 p.m., 29°.
- 1st. - 20th. Temp. at 8 a.m. and 5 p.m. frequently below 30°.
- 7th. Snow.
- 8th. and 9th. Snow in night.
- 9th. Snow.
- 12th. Gentle snow.
- 13th. Snow.
- 14th. Snow.

By accident horse fell with me missing the Road from the snow in the night.

15th. - 20th. No observations.

## March.

Cold and frosty with a good deal of snow.

- 8th. Stormy day.
- 10th. Heavy snow.
- 13th. Heavy snow.
- 19th. Now and then snows.
- 20th. Little snow.
- 23rd. - 24th. Deep snow.
- 24th. Deep snow.
- 26th. Snow.
- 28th. Many cough at Church. 'Intermittents becoming rife'.
- 29th., 30th. and 31st. Snow.
- 31st. Spring very backward.

## April.

Cold.

- 1st. Gentle snow.
- 4th. Many cough at Church.
- 6th. Snow at 8 a.m.
- 11th. Many cough at Church.
- 12th. Considerable fall of snow. Frequent showers of snow and hail.
- 13th. Frequent showers of hail.
- 13th. - 14th. Snow in night.
- 14th. Successive showers of hail, snow and rain.
- 20th. Heard Cuckow.
- 22nd. Stormy wind.
- 24th. Hail and Snow.
- 25th. Many cough at Church.
- 27th. Frequent showers of hail.
- 28th. Snow and showers of hail.
- 30th. Hedges but just begin to foliate.

## May.

Cool at first but a hot spell 16th. to 26th.

- 6th. Beech begin to foliate.
- 11th. Receiver ran over.
- 17th. 67° at 8 p.m.
- 25th. 60° at 6 a.m.
- 25th. Apple trees in full bloom.
- 23rd. 68° at 8 p.m.
- 30th. 75° at 8 p.m. — 100. May 25,

June.

Wet and cool.

- 4th. 2 p.m. Heavy shower of hail.  
4th. 5 p.m. Thunderstorm.

July.

Cool: dry until 24th., then wet.

- 7th. Noon, some heavy rain with thunder at a distance. Thunder in successive storms till 2 p.m.  
26th. 9 p.m., heavy shower rain with thunder at a distance.

August.

Cool.

- 7th. Gauge ran over by accident.  
31st. Neighbouring house built on SW side of funnel.

A very great crop of fruit in general: the apple ~~xxx~~ trees loaded so as to require to be propped.

September.

Dry and warm.

A fine harvest.

October.

Very dry: calm and mild.

- 16th. Exceedingly foggy.  
25th. Snow - 2 or 3 ins. deep.

November.

Mild, no hard frost.

- 11th. 'House very damp'.  
24th. 'House exceedingly damp'.

A very great quantity of Cyder.

December.

Cold: after the 8th. very frosty and dry.

- 7th. Frost commenced.  
8th. Snow.  
9th. Snow 3 ins. deep.  
10th. 22° at 8 a.m.  
24° at 4 p.m.  
11th. Snow at 2 a.m.  
12th. 23° at 9 a.m. Many cough at Church.  
13th. 20° at 8 a.m. 'So hard and continued a frost so early in the Season not known in the Memory of man'.  
16th. Snow.  
17th. 2 or 3 ins. Snow.  
18th. Snow.  
25th. 8 a.m., 22°  
25th. to 26th. Little snow in the night.  
29th. 7 p.m. Hail, than 3 ins. Snow.  
31st. 'Receiver being burst with frost, part of it wasted so that it could not be exactly ascertained'.

January.

Cold at first but milder after the 16th.

- 1st. A little snow (evening).
- 2nd. Snow, 10 a.m.
- 5th. 'House very damp'.
- 6th. 'Receiver being burst part washed away so that could not be exactly ascertained'.
- 10th. 'House very damp'.
- 12th. - 13th. Snow in night.
- 17th. 'House exceedingly damp'.
- 28th. Stormy day. 4 p.m., heavy shower of hail with thunder. Snow at night.
- 29th. 3 p.m., heavy shower of snow. 7 p.m., aurora.
- 31st. A little snow.

February.

Cold and frosty with a good deal of snow.

- 3rd. Rimey.
- 3rd. Afternoon, sometimes heavy, sometimes gentle, snow.
- 4th. Snow about 2 inches deep.
- 6th. Heavy fall of snow, 3 or 4 inches.
- 7th. Morning, snow about an hour, very heavy.
- 17th. Some snow.
- 18th. 8 a.m., 23°, 5 p.m., 26°, 4 p.m. shower of snow.
- 19th. 8 a.m., 22°.
- 20th. 8 a.m., 18°.
- 21st. Snow 8 or 9 inches deep.
- 22nd. Snow, about 2 ins.
- 23rd. Halo round moon.

March.

Very dry, the only rain being 0.06" on 27th.

- 1st. 7 a.m., 21°.
- 12th. and 13th. Now and then a little snow.
- 15th. A little snow.
- 24th. and 27th. A little snow.
- 27th. 'By computation, part being lost by an accident to Receiver'.
- 30th. - 31st. Little snow in night.

April.

Very dry: cold at first but very mild at the end of the month.

- 1st. Heavy snow, 3 ins. deep.
- 17th. Heard Cuckow.
- 17th. Syringa trees begin to foliate.
- 19th. Frith edges begin to foliate.
- 27th. Beech begin to foliate.

A sudden transition almost from winter to summer.

May.

Very dry: cool.

- 1st. to 16th. No rain.
- 12th. Roads full of dust. 'Wood work rend much from great driness of air'.
- 23rd. Noon, circle round sun.
- 28th. Noon, very heavy shower of rain with hail and strong winds.
- 29th. Frequent showers of rain, some with hail.

Haws of last year remaining on trees in blow: apple trees do not blow.

June.

Still a deficiency of rain: last few days very hot.

30th. Thunderstorm between 8 and 9 p.m. <sup>Flies</sup> ~~teaze~~ horses very much these 3 or 4 days.

July.

Rain still deficient: cool on the whole.

1st. 'Hygrometer adjusted' (\*)  
13th. Very little hay made. Herbage so burnt that Pasture Lands appear brown as in long frost.  
18th. 5 p.m., heavy thunderstorm.  
20th. Heavy showers with thunder.  
22nd. Frequent showers, some with thunder.

August.

A good deal of rain.

3rd. 'Receiver ran over'.

September.

Warm and wet.

6th. Stormy wind.  
8th. Aurora.  
14th. Hay making in many places.

Wheat good. Barley unequal, some not having come up soon enough to ripen. Hay making still in many places.

October.

Mild.

22nd. Hay still about in many places.  
25th. 5 p.m., hail shower.  
26th. A little snow.  
28th. Snow and hail.  
29th. Snow lay thick on ground.  
31st. 'By accident left open the cock, suppose to have lost about .05" '.

No Cyder made and hardly an apple to be got.

November.

Mild with an occasional frost.

16th. and 17th. Rimy.  
19th. 'House very damp'.  
20th. - 21st. Snow in night.

December.

Mild until the 23rd., then colder with some frost.

13th. Stormy evening.  
24th. - 25th. Snow in night.  
25th. A little snow.  
26th. - 27th. Snow in night.

(\*)

See introduction.

January.

Very wet: mild, with a sharp frost at the beginning and another at the middle of the month.

- 1st. 8 a.m. 20°
- 2nd. Snow, rimy.
- 3rd. 8 a.m., 16°, rimy.
- 4th. Heavy snow with high wind.
- 5th. Tempestuous evening, much damage done at Sea.
- 5th. - 7th. Very wet days, 'receiver ran over'.
- 7th. 'House very damp, a very high flood'.
- 14th. Snow.
- 16th. Snow.
- 18th. 8 a.m., 24°
- 22nd. 'House very damp'.

February.

Cold, but very little hard frost.

- 6th. - 7th. Night tempestuous, heavy Thunderstorm with hail.
- 7th. Evening, little snow.
- 10th. Syringa tree begins to foliate.
- 23rd. 7 a.m., 28° 'not sinking lower on throwing open the doors'.
- 25th. Evening, a little snow.
- 27th. A little snow.
- 28th. Snow, 4 inches deep.

March.

Very cold, with a good deal of frost.

- 1st. - 10th. No temperatures above 30° recorded at morning or evening observations until 5 p.m. on the 10th., 31°.
- 5th. 9 a.m., 20°
- 6th. 7 a.m., 22°, 5 p.m. 23°
- 7th. 8 a.m., 21°
- 8th. 7 a.m., 16°
- 9th. 7 a.m., 20°
- 10th. 8 a.m., 24°
- 7th. Frequent snow.
- 15th. Heavy snow.
- 25th. Afternoon, frequent showers of rain, some with hail.
- 26th. Now and then a little snow.

April.

Cool.

- 3rd. Foliation of syringa tree stopped by late severe weather now begins again.
- 9th. Now and then a little snow.
- 11th. Frith edges begin to foliate.
- 21st. 2 p.m., thunder.
- 24th. Heard cuckow.
- 26th. Beech begin to foliate.

May.

Cool.

- 6th. Thunder at a distance.
- 7th. 6 p.m., thunderstorm.
- 31st. 'A great blight'.

# June.

A warm month.

- 6th. Lightning at night.
- 12th. 76° at 8 p.m.
- 14th. Thunder and lightning.
- 16th. 8 p.m., thunderstorm. Later, lightning.
- 21st. Lightning in evening.
- 30th. Apple Trees and others, which rendered as brown as in winter by late blight, recovering their foliage.

# July.

Dry and seasonable.

A fine hay harvest and a great quantity made.

# August.

Seasonable month.

- 19th. Frequent heavy showers, some with thunder.
- 24th. Thunder.

Corn fine, and a good harvest.

# September.

On the whole, a warm month: wet.

- 4th. A heavy thunderstorm shower or two, one with hail.
- 14th. Very stormy day - much damage done at sea.

# October.

Very wet until the 12th.; very dry afterwards: mild.

- 7th. and 8th. 'Receiver ran over'.
- 13th. Aurora Borealis, very bright.
- 17th. Aurora Borealis.

Cyder made only in a few places.

# November.

Cold, but very little frost.

- 1st. A little snow.
- 15th. A little snow.

# December.

Mild, with one frost period.

- 6th. Stormy day.
- 10th. - 11th. Stormy tempestuous night, accounts of shipwrecks.
- 12th. Very stormy.
- 19th. Snow.
- 23rd. A little snow: later, frequent snow or sleet.
- 26th. A little snow at night.

# January.

Dry, very little frost.

- 3rd. Eclipse of the moon.
- 7th. Aurora Borealis.
- 21st. Catarrhs rife.
- 28th. Snow, 4 ins. deep.

1786

# January.

Very wet: mild, with a sharp frost at the beginning and another at the middle of the month.

- 1st. 8 a.m. 30°
- 2nd. Snow, 10°
- 3rd. 8 a.m. 10°
- 4th. Heavy snow with high wind
- 5th. Tempestuous evening, much damage done at sea
- 6th. Very wet day, 'Receiver ran over'
- 7th. House very damp, a very high flood
- 8th. Snow
- 9th. Snow
- 10th. 8 a.m. 24°
- 11th. House very damp
- 12th.

# February.

Cold, but very little hard frost.

- 1st. 8th. Night tempestuous, heavy thunderstorm with hail.
- 2nd. Evening, little snow.
- 3rd. 10th. Spruce trees begin to foliate.
- 4th. 7 a.m. 22° not sinking lower on throwing open the doors.
- 5th. Evening, a little snow.
- 6th. A little snow.
- 7th. Snow, 4 inches deep.
- 8th.

# March.

Very cold, with a good deal of frost.

- 1st. 10th. No temperatures above 20° recorded at morning or evening observations until 8 p.m.
- 2nd. 8 a.m. 20°
- 3rd. 7 a.m. 20°
- 4th. 8 a.m. 21°
- 5th. 7 a.m. 10°
- 6th. 7 a.m. 20°
- 7th. 8 a.m. 24°
- 8th.

- 9th. Frequent snow.
- 10th. Heavy snow.
- 11th. Afternoon, frequent showers of rain, some with hail.
- 12th. Now and then a little snow.
- 13th.

# April.

Cool.

- 1st. 3rd. Foliation of spruce trees stopped by late severe weather now begins again.
- 2nd. Now and then a little snow.
- 3rd. British edges begin to foliate.
- 4th. 8 p.m. thunder.
- 5th. Heard cuckoo.
- 6th. Birch begin to foliate.
- 7th.
- 8th.

# May.

Cool.

- 1st. 6th. Thunder at a distance.
- 2nd. 7th. 8 p.m. thunderstorm.
- 3rd. 8th. A great blight.

1787

## February.

Mild.

A day's observations omitted somewhere during this month so that some observations are entered against the wrong day. See note to the 27th.

- 10th. Syringa trees begin to foliate.  
27th. 'Forgot to insert a day about the middle of the month'.

## March.

Wet and mild.

Vegetables everywhere exceedingly forward.  
Intermittents begin to appear.

- 1st. - 2nd. Stormy night.  
2nd. Stormy.  
5th. Snow on the Hills.  
6th. Meadows under water.  
11th. Several showers of hail.  
14th. Frith edges begin to foliate.  
21st. Aurora Borealis.  
22nd. Exceedingly foggy.  
23rd. Afternoon, 2 or 3 heavy showers of hail.

Intermittents very rife.

## April.

Cold.

- 5th.-6th. No observations, confined by catarrh.  
13th. 3 to 4 p.m., showers rain, snow and hail.  
15th. Heavy snow.  
18th. and 19th. Aurora Borealis.  
21st. Beech begin to foliate. A fortnight ago some of the buds burst but foliation stopped by late cold weather.  
23rd. Many cough at Church.  
26th. Aurora Borealis very red.  
27th. Showers of rain and hail.  
29th. Showers of rain and hail. 'By accident left cock of receiver open'.  
30th. Now and then a little rain, hail or sleet.

## May.

Cold.

- 14th. Thunder at a distance.  
21st. Thunderstorm at a distance.  
24th. Frequent showers of rain, one with thunder and hail.  
28th. Stormy.  
31st. Thunder at a distance.

Fruit much hurt by blight and cold winds.

## June.

Cool: especially the first seven days of the month.

- 7th. Smart frost, kidney beans, etc. killed.  
15th. Eclipse of the sun this afternoon.

July.

Cool and wet.

- 12th. Frequent showers of rain, one with thunder.
- 13th. 3 p.m., thunderstorm.
- 25th. Thunder at a distance.
- 8th. - 31st. Rain almost daily.

Much hay spoiled.

August.

Calm, not too hot.

- 9th. Thunderstorm, early afternoon.
- Hay making not finished. Good deal of Wheat and barley cut.

September.

Very dry until the 15th., then wet.

- 19th. Successive heavy showers of rain, one with thunder.
- 26th. In forenoon, a very heavy shower with thunder and hail. Evening, lightning with thunder at a distance.

A good harvest.

October.

A good deal of rain, very mild.

- 4th. Aurora Borealis.
- 12th. 2 - 3 p.m., hail.
- 13th. 'Aurora Borealis, very fine, appearing to come from all quarters and form a red center'.
- 21st. Many cough at Church.
- 27th. 'House very damp'.

November.

Mild until the 14th., then colder, but no severe frost.

- 4th. - 5th. No observations, confined by lumbago.
- 5th. Shower of hail.
- 11th. Night, very heavy rain, hail: tempestuous. 'Receiver ran over'.

December.

Mild.

- 21st. 7 p.m., halo round moon.
- 22nd. Catarrhs prevalent.
- 23rd. Halo round moon.
- 24th. Gentle snow.
- 25th. Snow 5 or 6 inches deep.
- 30th. Catarrhs very prevalent.

1788

January.

Mild.

- 2nd. 'House very damp'.
- 14th. Noon, shower of hail.
- 29th. and 30th. Rime.

Catarrhs rife. Low fever still prevails.

1788

February.

Cold, but no severe frost.

- 11th. Aurora Borealis.
- 18th. A little snow.

Catarrhs and low fever still prevail.

March.

Still a deficiency of rain: cold at first but milder towards the end.

- 6th. Now and then a little snow.
- 31st. 2 p.m., thunderstorm at a distance, 4 p.m., hailstorm.

Catarrhs still pretty rife and some poor people have the low fever.

April.

Dry and windy.

- 1st. Stormy.
- 3rd. Very windy.
- 4th. Frequent showers of hail snow or sleet.
- 19th. Beech begin to foliate.
- 23rd. Heard cuckow.

May.

Dry: a hot spell 25th to 29th.

- 1st. 2 p.m., 66°
- 7th. Apple trees in full bloom.
- 24th. Aurora Borealis.
- 27th. 9 a.m., 69° Lightning, evening.
- 28th. 6 a.m., 65°

June.

Dry and cool.

- 18th. 8 a.m. 67°. Afternoon, thunderstorm.
- 25th. 'By guess, having left cock of receiver open'.

Hay scarce from late drought.  
Low fever spread more of late among the poor people.

July.

Cool; more rain than of late.

- 17th. - 29th. Very few observations, 'confined by accident'
- 31st. Wheat harvest begun some days.

Much hay spoiled by late rains: a good deal still to be made.  
Low fever still continues.

August.

Seasonable weather.

- 9th. to 12th. No observations, confined by illness.
- 24th. and 31st. Many cough at Church.

Influenza heard of in London 5 or 6 weeks ago, perceived here a month ago and is prevalent.  
One or two persons had low fever.  
Much wheat got well in, some injured by late rains.

1788

January.

Mild.

1788

September.

Wet.

30th. Influenza over, a fortnight or three weeks: but some remain very weak who had it a month or six weeks ago. Low fever still in a family or two.

Upon the whole a fine harvest: little or no corn out. Apple trees so loaded with fruit that obliged to be propped all over country.

October.

Very dry and mild.

22nd. Aurora Borealis.  
31st. The Roads dusty.

An exceeding great plenty of Cyder.

November.

Dry: mild until the 25th., then colder.

23rd. and 30th. Many cough at Church.

Springs became dry which not known to have failed before at this season of the Year.

December.

Very dry and considerable frost.

3rd. A little snow.  
7th., 14th., 21st. and 28th. Many cough at Church.  
7th. A little snow.  
12th - 20th. A very frosty period.  
15th. 8 a.m. 21°  
16th. " 20  
17th. " 25  
18th. " 20, noon 24°, a little snow.  
19th. " 25, noon 29°  
20th. " 22, 11 a.m., 23°, 4 p.m. 26°. Roads very dusty.  
21st. A gentle thaw.  
26th. A little snow.  
28th. Snow. 8 a.m., 26°  
29th. 8 a.m., 24°. A gentle fall of snow.  
30th. 8 a.m., 21°. A little snow.  
31st. Heavy snow.

1789

January.

Very frosty until the 14th.; afterwards very mild; wet and windy.

1st. A little snow.  
5th. 24 at 8 a.m.  
7th. 23 at 8 a.m., excessively cold.  
9th. 25 at 8 a.m.  
10th. 26 at 8 a.m., gentle snow.  
11th. 25 at 8 a.m., gentle fall of snow.  
12th. 18 at 8 a.m., a little snow.  
13th. 23 at 8 a.m. Rain which first fell froze.  
13th. Snow at night.  
18th. 'Receiver ran over'.  
19th. Evening, fall of snow.

Farmers interrupted in cyder making by late frost now back again.

Cyder colics pretty frequent.

February.

Mild.

- 2nd. - 3rd. Stormy night.  
 3rd. Stormy morning with hail.  
 3rd. Lightning, evening. Tetbury spire much damaged by lightning.  
 9th. Two or three smart showers of rain with snow.  
 23rd. Syringa tree begins to foliate. Stormy.  
 25th. Stormy day.

Cyder still in making.

Cyder colics pretty frequent.

March.

A great deal of snow.

- 6th., 7th. and 8th. A little snow.  
 9th. Noon, snow, hail and sleet.  
 10th. Snow. 27° at 6 a.m.  
 10th. - 11th. Very heavy fall of snow in night.  
 11th. Snow.  
 13th. Heavy snow. Afternoon, showers of hail.  
 15th. - 16th. Snow in night.  
 17th. - 18th. Snow, rain and hail in night.  
 18th. Gentle snow.  
 22nd. Many cough at Church.  
 24th. Snow, evening.  
 25th. A little snow, which lies upon the Hills.  
 28th. A little snow.  
 28th. - 29th. Snow in night.  
 29th. Many cough at Church.

Cyder making hardly finished.

April.

Cold at first and then milder.

- 4th. Considerable fall of snow.  
 5th. Many cough at Church.  
 7th. 'Vegetation stopped for month or five weeks past now growing again'.  
 12th. Many cough at Church.  
 25th. Beech begin to foliate.  
 26th. Frequent showers of hail.  
 27th. Thunderstorm, 7 p.m.

Some cyder colics. Some ulcerated sore throats.

May.

Calm and warm.

- 7th. Halo round moon.  
 10th. Heard cuckoo.  
 13th. Thunder at a distance.  
 18th. Some of apple trees in full bloom.  
 31st. Showers of hail.

Some cyder colics. Some ulcerated sore throats.

June.

Thundery and wet.

- 4th. At 3 p.m., heavy shower of rain with hail and thunder at a distance.  
 10th. and 11th. Thunder at a distance.  
 17th. Heavy storm at a distance.  
 19th. Thunder at a distance.  
 22nd. Wind in upper region, NE (surface SW).  
 24th. Wind in upper region N.

# July.

Cool and inclined to be wet.

- 6th. Heavy thunderstorm at a distance.
- 8th. 4 p.m., heavy shower of rain and hail.
- 13th. 3 p.m., thunderstorm.
- 22nd. Shower with thunder and hail.
- 27th. 2 p.m., thunderstorm.

Haymaking bad.

# August.

Dry.

- 21st. Smart shower of rain with thunder.
- 22nd. Showers with thunder.
- 31st. 'Receiver ran over'.

Latter part of haymaking good. Corn harvest begun.

# September.

Fine and warm.

- 5th. - 20th. No observations (observer in London).
- 30th. Shower of hail.

Corn harvest for most part finished.

# October.

Wet.

- 1st. Heavy showers of rain and hail.
- 18th. 'By accident, receiver left open, therefore by computation'.
- 30th. 7 a.m. 44°
- 31st. 7 a.m. 33°

Some children appear to have had the Scarlatina Anginosa.

# November.

Cold but not frosty.

- 6th. Heavy snow.
- 14th. Aurora Borealis. 'Supposed it to be so but it seems from other accounts to have been something different'.
- 19th. - 22nd. No observations, 'confined by rheumatism'.
- 23rd. Roads full of dirt.

A disease lately prevalent which seems to be like Chicken Pox but more serious. By some it was first supposed to be Small Pox. A few sore throats about which seem to be the Scarlatina Anginosa but with the eruption on chin.

# December.

Very mild.

- 8th. and 9th. Rimey.
- 16th. Heavy shower of snow.
- 23rd. and 24th. Stormy.
- 24th. Some showers of hail.

A few persons have a slight fever with ulcerations about the mouth which seems to be similar to the Scarlatina Anginosa.

# January.

Mild.

- 11th. - 12th. Stormy night.
- 12th. 'House very damp'.
- 14th. Foggy on the Hills.
- 17th. Many cough at Church.
- 24th. 'House very damp'.
- 30th. Some proofs of early vegetation.

Some complaints of scarlatina anginosa.

# February.

Dry and mild.

- 5th. - 6th. No observations.
- 11th. Syringa trees begin to foliate.

# March.

Dry and cold, but not frosty.

- 8th. Frith edges begin to foliate.
- 10th. 3 p.m., hailstorm.
- 21st. and 22nd. Wind in higher regions NE or E (surface, W).
- 22nd. A ring or Halo at a considerable distance round the Moon.

# April.

Cold at first, but warmer towards the end.

- 8th. and 9th. Stormy days.
- 9th. Some hail and sleet.
- 14th. Hills covered with snow.
- 15th. Heavy snow.
- 24th. Shower of hail.
- 27th. Eclipse of the Moon.
- 30th. Beech begins to foliate.

# May.

Warm.

- 12th. and 13th. Stormy days.
- 24th. Most of the apple trees in full bloom.

# June.

Hot, but a cold spell at the end of the month.

- 12th. Wind in upper regions SW (surface, N by E).
- 17th. Thunder in evening.
- 22nd. 6 a.m., 64°, 2 p.m., 75°  
Thunderstorm at a distance, N (afternoon).  
Lightning in SE, evening.
- 25th. 5 p.m., heavy shower of rain and hail.
- 26th. to 30th. A cold spell.
- 28th. Frost, some vegetables killed.

# July.

Seasonable, not unduly hot.

Greatest part of hay well made.

August.

A cold spell at the end of the month.

- 23rd. Evening, the clouds light and formed into very beautiful waving lines: and being unequally thick, collected into streams which at first sight resembled Aurora Borealis. (\*)
- 25th. 'Receiver ran over, but very little supposed to be wasted'.

Crops of corn very good.

September.

Cold at first, but warmer towards the end of the month.

19th. and 20th. Stormy days.

Fine crops of corn and a good harvest.

October.

Warm until the 9th. and then colder.

23rd. Eclipse of the moon.

November.

Wet and mild.

- 1st. Stormy.
- 6th. 'House very damp'.
- 25th. Very wet day.
- 28th. Many cough at Church.

Hooping Cough prevalent.  
Not much Cyder made.

December.

Wet and stormy: mild except the last few days.

- 1st. Stormy with snow.
- 2nd. Stormy wind.
- 3rd. 'House very damp'.
- 11th. 'House very damp'.
- 13th. Stormy wind.
- 15th. Very stormy.
- 18th. Stormy, a little snow.
- 19th. Heavy snow.
- 23rd. Stormy with thunder, hail.
- 25th. Many cough at Church.

Hooping cough still prevalent.

January.

Wet and stormy, mild.

- 3rd. Cough prevails among the horses.
- 5th. Heavy snow.
- 6th. Aurora Borealis.
- 7th. Rain with thunder.
- 7th. to 9th. Stormy period.
- 11th. 'House very damp'.
- 12th. Stormy evening.
- 13th. Stormy afternoon and evening.
- 18th. Stormy evening, hail.
- 22nd. Stormy wind, evening.

Hooping cough prevails.

(\*) The only reference to cloud forms in the Diary.

## February.

Stormy until the 19th.: generally mild.

- 1st. Stormy afternoon and tempestuous evening.
- 2nd. Little snow in the morning.
- 3rd. A little snow in the morning.
- 15th. Noon, slight shower of hail.
- 19th. Now and then a little hail.
- 20th. - 21st. Little snow in night.
- 25th. Gentle snow.
- 26th. Snow in the morning: showers of hail.

Hooping cough prevails.

## March.

Mild and dry.

- 21st. Now and then slight showers of hail.
- 22nd. Frith edges begin to foliate.
- 27th. Many cough at Church.

Hooping cough prevails.

## April.

Warm and showery.

- 3rd. 'Eclipse of the sun begun at 15 mins. after 12 and ended at 3: more transverse over the upper part of the sun than expressed in G.M. (\*) for February: before the middle of eclipse the hemisphere partly bright and clear, afterwards a few light clouds formed: at height, no more dark than might be occasioned by a cloud passing partly over the sun or as it looks on the approach of a storm'.

- 6th. - 7th. No observations.
- 14th. Beech begin to foliate.
- 22nd. Heard cuckoo.
- 27th. 'Fall of rain not measured, an accident having happened to Gauge'.

Vegetation very forward.

Some sore throats, a few of malignant head, mostly erysipelatous.

## May.

Dry: cold until the 8th., warmer afterwards.

- 7th. Hoar frost. 'Tender vegetables, ash trees, walnut trees, etc., suffer from frost'.
- 8th. Wind in higher regions, NE. (surface NW).
- 12th. Apple trees in full bloom.
- 24th. to 27th. No observations.

Fruit trees much blighted.

Diarrhoeas pretty frequent.

(\*) i.e. Gentleman's Magazine.

1791

June.

On the whole, hot: dry.

- 4th. 4 p.m., slight thunderstorm.
- 11th. Snow said to fall upon the hills.
- 12th. 4 p.m., shower of hail.
- 13th. Slight frost, kidney beans killed.
- 22nd. Slight forst, kidney beans again injured.

July.

Wet.

- 4th. Stormy.
- 18th. Thunder at a distance.

August.

Seasonable.

- 12th. to 28th. No instrumental observations.
- 14th. and 15th. Much lightning.
- A fine harvest, most of wheat and barley got in.

September.

Bry and warm.

Scarlatina Anginosa said to prevail at Sheepscombe.

October.

Very mild.

- 20th. Stormy.

Ophthalmics pretty rife. A few with scarlatina anginosa. Very little Cyder made.

November.

Very wet: mild, very little frost.

- 12th. Lightning, morning.

Ophthalmics still pretty rife. A few with scarlatina anginosa.

December.

Stormy at first: on the whole, mild.

- 1st. - 3rd. Stormy period.
- 4th. 'Receiver ran over'.
- 9th. Considerable snow.
- 11th. to 12th. A little snow.
- 12th. Wind in upper regions NW (surface SE).
- 17th. 26° at 8 a.m.
- 19th. Rime.
- 21st. A little snow.
- 22nd. Snow in evening.
- 24th. A little snow.
- 26th. Aurora Borealis.
- 27th. Stormy evening.

A few with scarlatina.

January.

Wet and cold with one frosty period.

- 11th. Rimey.  
12th. 22° at 8 a.m.  
14th. 24° at 8 a.m., snow.  
16th. 'House very damp'.  
23rd. Snow.  
25th. 'Receiver ran over'. Stormy day.  
25th. 'House very damp'.

February.

Mild with one frosty period.

- 1st. and 2nd. Stormy.  
5th. Halo round moon.  
18th. and 19th. Snow.  
21st. 8 a.m., 25°. A little snow.  
26th. 'House very damp'.

March.

Mild with one frosty spell: wet.

- 4th. 'Receiver ran over'.  
5th. 'By computation, the cock by accident being left open.'  
6th. Snow.  
10th. 6 a.m. 26°, 10 a.m. 29°.  
11th. 7 a.m. 29°, 3 p.m., 29°.  
13th. Snow.  
24th. - 25th. Stormy.  
26th. and 27th. Showers of hail.  
28th. - 31st. Windy period.

Influenza complaints prevail, as rheumatisms, etc.

April.

Mild and showery.

- 2nd. Noon, shower of hail.  
5th. Stormy afternoon.  
12th. 6 a.m. 53°, at 4 p.m., 58°  
13th. 6 a.m., 55°  
16th. Beech begin to foliate.  
19th. Snow on Hills.

May.

Showery and cool.

- 8th. Apple trees in full bloom.  
29th. Noon, thunder with hail.

June.

Cool.

Erysipelas, angina and ophthalmics pretty frequent.

July.

Cool and wet.

- 16th. Sultry evening, lightning.

A very indifferent hay making.

August.

Wet: first half of the month hot.

- 3rd. 72° at 11 a.m. 4 - 6 p.m., three very heavy showers of rain, one with thunder.

# August (contd.).

23rd. 'Receiver ran over'.  
28th. 4 p.m., thunderstorm.  
29th. Thunder.

Hay making hardly finished. Wheat harvest late.

## September.

Very wet.

Some of barley not got in.

## October.

Warm.

13th. Aurora Borealis.  
28th. Many cough at Church.

Catarrhs very prevalent. Scarlatina Anginosa here and there. Rashes of different species common.

## November.

Dry and mild.

22nd. Noon, showers of hail.  
25th. Many cough at Church.

Catarrhs rife.

## December.

On the whole, mild: stormy.

6th. Stormy evening.  
9th. Stormy day.  
20th. Stormy evening with hail and thunder.  
21st and 22nd. Stormy days.  
25th. and 30th. Many cough at Church.  
26th. Stormy day.

## January.

Cold, but no prolonged frosts: stormy.

4th. Snow.  
5th. Showers of hail.  
6th. Many cough at Church.  
8th. '...or thereabouts, the gauge falling down'.  
10th. Hail; stormy evening.  
11th. Stormy day.  
13th. Many cough at Church.  
15th. Stormy evening.  
19th. and 20th. Rimey.  
20th. Many cough at Church.  
27th. Many cough at Church.

Catarrhs very rife, measles prevail.

Herbage in fields still green.

1792

1793

Wet and cold with one frosty period.

11th. Rain.  
12th. 20° at 8 a.m.  
13th. 20° at 8 a.m. snow.  
14th. 20° at 8 a.m. snow.  
15th. House very damp.  
16th. Snow.  
17th. Receiver ran over.  
18th. House very damp.

Mild with one frosty period.

1st. and 2nd. Stormy.  
3rd. Hail round noon.  
4th. and 5th. Snow.  
6th. 8 a.m. 20°. A little snow.  
7th. House very damp.

Mild with one frosty spell: wet.

4th. Receiver ran over.  
5th. By computation, the cook by accident being left open.  
6th. Snow.  
7th. 8 a.m. 20°. 10 a.m. 20°. 3 p.m. 20°. 7 a.m. 20°. 3 p.m. 20°. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th. 101st. 102nd. 103rd. 104th. 105th. 106th. 107th. 108th. 109th. 110th. 111th. 112th. 113th. 114th. 115th. 116th. 117th. 118th. 119th. 120th. 121st. 122nd. 123rd. 124th. 125th. 126th. 127th. 128th. 129th. 130th. 131st. 132nd. 133rd. 134th. 135th. 136th. 137th. 138th. 139th. 140th. 141st. 142nd. 143rd. 144th. 145th. 146th. 147th. 148th. 149th. 150th. 151st. 152nd. 153rd. 154th. 155th. 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## February.

Mild.

- 2nd. and 3rd. Stormy.  
3rd. Many cough at Church.  
10th. A little snow.  
12th. Aurora Borealis.  
17th. Many cough at Church.

Catarrhs still frequent. Measles very rife.

## March.

Wet and cold, but no severe frosts.

- 1st. Stormy evening.  
2nd. Stormy day, tempestuous evening.  
3rd. Now and then, hail.  
13th. Hail in evening.  
23rd. Noon, shower of hail.  
26th. Now and then a little snow.  
28th. Now and then a little snow.  
31st. Snow at night. Many cough at Church.

Measles still about

## April.

Mild and wet.

- 1st. Snow.  
8th. Frith edges begin to foliate.  
16th. Now and then a little snow.  
17th. A little snow.  
19th. Now and then a little snow. Many cough at Church.

## May.

Dry: a cold spell at the end of the month.

- 2nd. Beech begin to foliate.  
4th. Heard cuckow.  
12th. Thunder at a distance.  
30th. Apple trees in full bloom.

## June.

Mild.

## July.

A fine and hot spell in mid-month but cooler toward the end.

- 9th. 77° at 2 p.m.  
10th. 80° at 2 p.m., lightning at night.  
11th. 71° at 5 a.m., 80° at 2 p.m. and 77° at 8 p.m.  
12th. 70° at 4 a.m., 81° at 2 p.m.  
15th. 73° at 6 a.m., 81° at 2 p.m., 80° at 5 p.m. and 75° at 10 p.m. Lightning at night.

Cholera and diarrhoea frequent, also rashes.

A fine hay making which neatly finished. From scarcity of stock, new hay at £4 per ton.

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August (contd.)

23rd. Receiver ran over.  
28th. 4 p.m., thunderstorm.  
28th. Thunder.

Hay making hardly finished. Wheat harvest late.

September.

Very wet.

Some of barley not cut in.

October.

Warm.

13th. Aurora Borealis.  
28th. Many cough at Church.

Catarrhs very prevalent. Some of different species common here and there.

November.

Dry and mild.

23rd. Now, shower of hail.  
28th. Many cough at Church.

Catarrhs rife.

December.

On the whole, mild; stormy.

6th. Stormy evening.  
23rd. Stormy day.  
28th. Stormy evening with hail and thunder.  
21st and 22nd. Stormy days.  
23rd and 24th. Many cough at Church.  
28th. Stormy day.

January.

Cold, but no prolonged frosts; stormy.

4th. Snow.  
5th. Showers of hail.  
6th. Many cough at Church.  
8th. At the school, the gauge falling down.  
10th. Hail; stormy evening.  
11th. Stormy day.  
13th. Many cough at Church.  
15th. Stormy evening.  
18th. Windy.  
20th. Many cough at Church.  
27th. Many cough at Church.

Catarrhs very rife, measles prevail.

Herbage in fields still green.

# August.

Cool and wet.

- 3rd. Thunder near and at a distance.
- 7th. Thunderstorm, 3 p.m.
- 15th. 'little ran over'.

A fine corn harvest, the wheat very good, part of other grain indifferent.

# September.

Cool.

- 2nd. Stormy evening.
- 5th. Eclipse of the sun.
- 21st. Showers of hail.

# October.

Very mild and dry.

- 1st. Stormy evening.
- 2nd. 2 p.m., heavy showers of hail.
- 27th. Frequent showers of hail.
- 30th. Some hail. Lightning, evening.
- 31st. Showers of hail and sleet.

Good crop of apples.

# November.

Mild.

A considerable quantity of Cyder.

# December.

Mild.

- 16th. 'House very damp'.
- 18th. Stormy morning.

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# January.

Dry and frosty.

- 2nd. Rimy morning.
- 5th. Rimy.
- 10th. 8 a.m., 26°: 1 p.m., 29°
- 11th. 8 a.m., 25°: noon, 29°
- 25th. Stormy day with snow.
- 26th. Frequent snow.
- 27th. Deep snow.
- 29th. A little snow.
- 31st. Stormy evening.

# February.

- 1st. 'House very damp'.

Spring very forwardly: the grass as well as corn fields being very green.

# March.

Cold.

- 10th. Frith edges begin to foliate.
- 19th. Shower of hail.
- 31st. 5 p.m., heavy thunderstorm with hail.

1793

# February.

Mild.

- 2nd. and 3rd. Stormy.
- 3rd. Many coughs at Church.
- 10th. A little snow.
- 12th. Antons Beteslia.
- 17th. Many coughs at Church.

Cataracts still frequent. Weather very fine.

# March.

Wet and cold, but no severe frosts.

- 1st. Stormy evening.
- 2nd. Stormy day, tempestuous evening.
- 3rd. Now and then hail.
- 10th. Hail in evening.
- 12th. Room, shower of hail.
- 13th. Now and then a little snow.
- 14th. Now and then a little snow.
- 15th. Now and then a little snow.
- 16th. Snow at night. Many coughs at Church.
- 31st.

Weather still about

# April.

Mild and wet.

- 1st. Snow.
- 2nd. Frith edges begin to foliate.
- 3rd. Now and then a little snow.
- 10th. A little snow.
- 12th. Now and then a little snow.
- 13th. Now and then a little snow. Many coughs at Church.

# May.

Dr. V. a cold spell at the end of the month.

- 2nd. Beech begin to foliate.
- 4th. Heard cuckoo.
- 12th. Thunder at a distance.
- 30th. Apple trees in full bloom.

# June.

Mild.

A fine and hot spell in mid-month but cooler toward the end.

- 2nd. 7° at 2 p.m. Lightning at night.
- 3rd. 80° at 2 p.m. and 70° at 8 p.m.
- 10th. 70° at 2 p.m. and 80° at 8 p.m.
- 11th. 70° at 2 p.m. and 80° at 8 p.m.
- 12th. 70° at 2 p.m. and 80° at 8 p.m.
- 13th. 70° at 2 p.m. and 80° at 8 p.m.
- 14th. 70° at 2 p.m. and 80° at 8 p.m.
- 15th. 70° at 2 p.m. and 80° at 8 p.m.
- 16th. 70° at 2 p.m. and 80° at 8 p.m.
- 17th. 70° at 2 p.m. and 80° at 8 p.m.
- 18th. 70° at 2 p.m. and 80° at 8 p.m.
- 19th. 70° at 2 p.m. and 80° at 8 p.m.
- 20th. 70° at 2 p.m. and 80° at 8 p.m.
- 21st. 70° at 2 p.m. and 80° at 8 p.m.
- 22nd. 70° at 2 p.m. and 80° at 8 p.m.
- 23rd. 70° at 2 p.m. and 80° at 8 p.m.
- 24th. 70° at 2 p.m. and 80° at 8 p.m.
- 25th. 70° at 2 p.m. and 80° at 8 p.m.
- 26th. 70° at 2 p.m. and 80° at 8 p.m.
- 27th. 70° at 2 p.m. and 80° at 8 p.m.
- 28th. 70° at 2 p.m. and 80° at 8 p.m.
- 29th. 70° at 2 p.m. and 80° at 8 p.m.
- 30th. 70° at 2 p.m. and 80° at 8 p.m.
- 31st. 70° at 2 p.m. and 80° at 8 p.m.

Cholera and diarrhoea frequent, also measles.

A fine hay making which nearly finished. Scarcity of stock, new hay at 24 per ton.

April.

Cool.

- 1st. Heavy snow and hail.  
 4th. Frequent hail.  
 8th. Hail.  
 18th. Beech begin to foliate.  
 21st. Heard cuckow.

May.

Cool.

- 1st. Apple trees in full bloom.  
 9th. Hailstorm with thunder.  
 10th. Frequent showers of hail with thunder.

June.

Dry and cool.

- 10th. Thunderstorm, evening.  
 Typhus among some of the poor.

July.

Hot.

- 5th. 2 p.m., 76°  
 6th. 3 p.m., thunderstorm from W. 78° at 1 p.m.

Hay making weather fine, though crops rather scanty, nearly finished. Harvest begun. Typhus more prevalent though seldom fatal.

August.

Seasonable weather.

- 19th. 2 p.m., thunderstorm.  
 27th. - 31st. No observations.

Low fever continues to prevail and in some fatal.  
 Most of harvest got in.

September.

- 1st. - 14th. and 20th. - 30th. No observations.

Typhus still prevalent.

October.

Mild and wet.

Typhus less prevalent.

November.

Wet.

- 5th. 'Receiver ran over'.  
 22nd. 'By some accident, rain lost, perhaps about .050".  
 24th. 'House damp'.  
 29th. At night, rain with thunder.

December.

Mild at first but much colder towards the end of the month.

- 1st. and 2nd. Stormy.  
 4th. 'House very damp'.  
 25th. A little snow.  
 26th. Deep snow.

January.

Very cold and frosty. The temperature was above 32° at 8 a.m. only once during the month. This was on the 28th. when it was 33°

1st. Rimey.  
3rd. 17° at 8 a.m.  
4th. 19° at 8 a.m.  
13th. Rimey.  
14th., 15th., 16th. and 17th. A little snow.  
18th. Snow increased.  
19th. A little snow.  
21st. A little snow.  
24th. 8 a.m., 19°  
25th. 2 p.m., 22°  
26th. Snow and sleet.  
27th. A violent flood from the sudden thaw.  
28th. Snow.  
30th. Rimey.

February.

Cold, but no severe frost: a good deal of snow.

1st. Snow.  
2nd. - 3rd. Snow in night.  
3rd. Snow.  
4th. Snow in morning.  
6th. Snow in afternoon.  
10th. 'House very damp'.  
13th. Deep snow in the morning.  
20th. A little snow.  
22nd. Snow.  
23rd. Snow all day.

March.

Wet and cold.

2nd. Heavy snow.  
11th. Some showers of rain and hail.  
13th. Snow.  
14th. Heavy snow.  
16th. Gentle snow.

April.

Seasonable weather.

11th. Thunder from SE, evening.  
16th. Snow and hail, afternoon.  
16th. Frith edges begin to foliate.  
28th. Showers of hail.  
28th. Beech begin to foliate.

May.

Dry and cool.

5th. Heard cuckow.  
22nd. Apple trees in full bloom.  
23rd. 2 p.m., 68°.  
26th. Slight frost, tender vegetables, as K.B. injured (\*).  
29th. Gauge removed to New House.

Cuckow heard but little till within the last fortnight.

(\*) i.e. kidney beans.



January.

Very mild: wet and stormy.

- 1st. Wind SW in upper regions. (NE at surface)
- 2nd. Stormy day.
- 12th. Stormy.
- 14th. Stormy evening. 52° at 9 a.m.
- 20th. Tempestuous evening and night.
- 21st. 52° at 9 a.m.
- 23rd. Stormy day: tempestuous evening.
- 23rd. - 24th. Thunder in night.
- 24th. to 27th. Very stormy period.
- 26th. 7 p.m., thunder.
- 29th. Two showers of hail.

Herbage as green as commonly is in April.

February.

Wet at first but latter half of the month dry.  
Colder than preceding month.

- 2nd. A little snow.
- 7th. Stormy evening.
- 13th. Shower of hail at night.
- 14th. Gooseberry trees begin to foliate.
- 27th. Now and then sleet.
- 28th. - 29th. A little snow.

March.

Dry: cold at first but milder later.

- 1st. A little snow.
- 3rd. Gentle snow.
- 6th. A little snow.
- 27th. Stormy. Snow.

April.

Dry, and, on the whole, warm.

- 23rd. Beech begin to foliate.
- 30th. Hail.

May.

Warm and showery.

- 3rd. Showers of hail.
- 6th. Hail showers.
- 29th. Stormy day.
- 30th. Stormy and tempestuous day.
- 31st. Stormy day.

Many lately with pain and swelling in the jaws.

June.

Dry and warm.

- 10th. Hail.

July.

Wet.

- 15th. 7 p.m., thunderstorm, a good deal of thunder.
- 29th. 'Receiver ran over'.

Large crops of hay but that made in this month for the most part bad.  
Typhus still prevails at Ruscombe.

August.

Cool and dry.

27th. 'Part lost by accident'.

Some hay well made. Wheat and other Grain very fine, and large crops, and much well got in.

September.

Fine and dry.

A most glorious harvest finished.

October.

Generally mild, with a frost or two at the end.

Brooks very low.

November.

Mild at first but frosty at the end.

Typhus again appears at Ruscombe.

December.

Cold and frosty: a sharp frost at Christmas.

5th. Snow.  
23rd. Snow.  
24th. 21° at 8 a.m.  
25th. 12° at 9 a.m., 19° at noon.  
28th. Gentle thaw. 'Streets etc. glazed'.  
29th. 'House damp'.  
30th. 'House very damp'.

January.

Occasional hard frosts.

1st. Many cough at Church.  
9th. A little snow.  
10th. Frequent snow.  
11th. Snow.  
14th. 'By accident wasted, supposed about .340'.  
31st. Stormy.

February.

Cold, but not frosty: dry.

12th. Many cough at Church.  
14th. A little snow.  
19th. and 26th. Many cough at Church.

March.

Very dry at first, but daily rain from the 24th.

5th. Many cough at Church.  
6th. A little snow.  
12th. Many cough at Church.  
19th. Very many cough at Church.  
20th. Epidemic catarrh rife.

Epidemic catarrh very rife.

Typhus in a few families at Ruscombe.

1797

1796

January.

Very mild: wet and stormy.

1st. Wind SW in upper regions.  
2nd. Stormy day.  
3rd. Stormy.  
4th. Stormy evening.  
5th. 32° at 9 a.m.  
6th. Tempestuous evening and night.  
7th. 32° at 9 a.m.  
8th. Stormy day: tempestuous evening.  
9th. Thunder in night.  
10th. Very stormy period.  
11th. 7 p.m. thunder.  
12th. Two showers of hail.

Herbage as green as commonly is in April.

February.

Wet at first but latter half of the month dry.  
Colder than preceding month.

1st. A little snow.  
2nd. Stormy evening.  
3rd. Shower of hail at night.  
4th. Gooseberry trees begin to foliate.  
5th. Snow and then frost.  
6th. A little snow.

March.

Dry: cold at first but milder later.

1st. A little snow.  
2nd. Gentle snow.  
3rd. A little snow.  
4th. Stormy. Snow.

April.

Dry, and, on the whole, warm.

3rd. Beech begin to foliate.  
4th. Hail.

May.

Warm and showery.

3rd. Showers of hail.  
6th. Hail showers.  
20th. Stormy day.  
30th. Stormy and tempestuous day.  
31st. Stormy day.

Many lambs with pain and swelling in the jaws.

June.

Dry and warm.

10th. Hail.

July.

Wet.

18th. 7 p.m. thunderstorm, a good deal of thunder.  
20th. 'Receivers ran over'.

Large crops of hay but that made in this month for the most part bad.  
Typhus still prevails at Ruscombe.

April.

Generally mild.

- 4th. Showers of rain and snow.  
9th. A few cough at Church.  
30th. Heard cuckow.

Epidemic catarrh nearly over.

May.

- 1st. Beech begin to foliate.  
5th. Showers of hail.  
6th. Showers of hail: thunder at a distance.  
10th. Snow at 9 a.m.  
17th. - 19th. 'Confined by Influenza which seems now more frequent than 2 or 3 weeks ago'.  
19th. Lightning in evening with thunder at a distance.  
25th. Two successive thunderstorms from SW.

June.

Wet.

- 3rd. 'Receiver ran over'.  
8th. Shower of hail.  
23rd. 7 p.m., heavy shower with hail.  
27th. A heavy thunderstorm in the neighbourhood at NE. Thunder at a distance.  
28th. 4 p.m., heavy thunderstorm with hail.

Hooping cough prevails.

July.

Cool.

- 30th. 6 p.m., a slight thunderstorm.  
31st. 'A little fell but lost by accident, supposed about .010'.

Hay first made, bad, latterly good.

August.

Showery and warm.

- 1st. Noon, heavy thunderstorm.  
17th. - 18th. Very heavy thunderstorm in night.  
18th. Heavy thunderstorm in morning.  
21st. Showers, some with thunder.

But little corn cut.

September.

Very wet: warm.

- 12th. - 17th. Very wet period.  
13th. Stormy afternoon.  
14th. 'Receiver ran over'.  
24th. 'A water spout reported to have burst on Hampton Common'.  
25th. 1.57 inch rain measured at 8 a.m. 'Lower part of Country flooded'.

Most of wheat got in, still a good deal of corn out.

October.

Mild.

All the corn got in except perhaps a few beans, much of it a good deal injured.

1797

November.

Very mild.

26th. 'House damp'.  
29th. Snow.

December.

Wet and very mild.

1st. - 2nd. Stormy night.  
11th. - 12th. Stormy night.  
16th. - 17th. Stormy night.

1798

January.

On the whole, mild weather with an occasional sharp frost.

6th. Stormy morning.  
12th. Snow.  
29th. - 31st. Stormy period.  
31st. Some snow. 'Receiver ran over'.

February.

Considerably colder than January.

16th. Some snow.  
13th. - 17th. No observations, confined by Scarlatina Anginosa.  
20th. Little snow.  
21st. Snow at night.

Scarlatina Anginosa lately rife.

March.

Cold and dry.

10th. - 11th. Snow in night.  
17th. Hail at noon.  
18th. Frequent showers of hail.  
20th. Showers of sleet and snow.  
21st. 2 or 3 showers of snow.  
22nd. Showers of snow in afternoon.  
29th. - 30th. Snow in night.  
30th. - 31st. Snow in night.

April.

Two rainy weeks and two dry weeks: cool.

5th. Frequent showers of hail, one with thunder.  
5th. Frith edges begin to foliate.  
6th. Stormy day.  
14th. 6 p.m., shower of rain and hail.  
23rd. Beech begin to foliate.  
26th. Heard cuckow.

May.

Dry.

5th. Noon, thunder at a distance.  
9th. Apple trees in pretty full blow.  
24th. - 31st. No observations.

April.

Generally mild.

4th. Showers of rain and snow.  
9th. A few cough at Church.  
30th. Heard cuckow.

May.

1st. Beech begin to foliate.  
5th. Showers of hail.  
8th. Showers of hail: thunder at a distance.  
10th. Snow at 9 a.m.  
13th. - 15th. 'Continued by influenza which seems now more frequent than 2 or 3 weeks ago'.  
18th. Lightning in evening with thunder at a distance.  
25th. Two successive thunderstorms from SW.

June.

Wet.

3rd. 'Receiver ran over'.  
8th. Shower of hail.  
17th. 7 p.m., heavy shower with hail.  
27th. A heavy thunderstorm in the neighbourhood of H.R.  
28th. 4 p.m., heavy thunderstorm with hail.

July.

Cool.

30th. 8 p.m., a slight thunderstorm.  
31st. A little fall but lost by accident, supposed about .010'.

Hay first made, bad, latterly good.

August.

Showers and warm.

1st. Noon, heavy thunderstorm.  
13th. - 15th. Very heavy thunderstorm in night.  
18th. Heavy thunderstorm in morning.  
21st. Showers, some with thunder.

But little corn out.

September.

Very wet: warm.

12th. - 17th. Very wet period.  
18th. Stormy afternoon.  
19th. 'Receiver ran over'.  
24th. A water spout reported to have burst on Hampton Common.  
25th. 1.57 inch rain measured at 8 a.m. 'Lower part of country flooded'.

October.

Mild.

Most of wheat got in, still a good deal of corn out.  
All the corn got in except perhaps a few beans, much of it a good deal injured.

1798

June.

Dry and warm.

1st. and 2nd. No observations.  
19th. 9 p.m., heavy shower of rain and hail.

A very fine Haymaking.

An epidemic Catarrh among the horses.

July.

Wet and cool: 1st. and 8th only days without rain until the 26th.

12th. Heavy shower with thunder and hail.  
17th. Shower with thunder.  
25th. - 31st. No observations. (in London).

Some corn cut. Haymaking not quite finished.

August.

Dry and warm.

1st. - 2nd. No observations. (in London).  
3rd. 'Part of which the latter part of last month' (i.e., rainfall had been accumulating in his absence).

A glorious harvest, most of corn got in.

September.

On the whole a warm month.

10th. Showers, some with thunder.  
11th. Stormy evening.  
20th. Thunder at a distance.

October.

Wet and mild.

18th. Rainbow between 8 and 9 p.m.  
26th. Stormy day.

November.

Wet.

19th. - 20th. Snow in the night.  
20th. Snow an inch deep. 'Receiver ran over, perhaps about .050" wasted'.  
22nd. Snow 2 ins deep. Now and then a little snow.  
27th. Stormy.

December.

Cold, with a sharp frosty spell after Christmas.

15th. A little snow.  
17th. 'House very damp'.  
25th. 8 a.m., 26°  
26th. 8 a.m., 24°: snow at night.  
27th. 8 a.m., 20°  
28th. 8 a.m. 12°, 3 p.m., 17°, 7 p.m., 13°  
29th. 8 a.m., 22°

November.

28th. 'House damp'.  
29th. Snow.

December.

1st. - 2nd. Stormy night.  
11th. - 12th. Stormy night.  
13th. - 14th. Stormy night.

January.

On the whole, mild weather with an occasional sharp frost.

February.

8th. Stormy morning.  
12th. Snow.  
21st. - 22nd. Stormy period.  
23rd. Some snow. 'Receiver ran over'.

February.

12th. Some snow.  
13th. - 14th. No observations, confined by Scariatina Angina.  
20th. Little snow.  
21st. Snow at night.

March.

Cold and dry.

10th. - 11th. Snow in night.  
12th. Hail at noon.  
13th. Frequent showers of hail.  
20th. Showers of sleet and snow.  
21st. 2 or 3 showers of snow.  
22nd. Showers of snow in afternoon.  
23rd. - 24th. Snow in night.  
25th. - 26th. Snow in night.

April.

Two rainy weeks and two dry weeks: cool.

5th. Frequent showers of hail, one with thunder.  
6th. With edges begin to foliate.  
7th. Stormy day.  
8th. Shower of rain and hail.  
9th. - 10th. Beech begin to foliate.  
11th. Heard cuckoo.

May.

Dry.

5th. Noon, thunder at a distance.  
6th. Apple trees in pretty full blow.  
24th. - 25th. No observations.

January.

Frosty.

- 8th. Now and then a little snow.
- 23rd. 'Receiver ran over'.
- 24th. Stormy afternoon.
- 27th. - 28th. Snow in the night.
- 31st. Heavy snow, snow deep and drifted.
- 30th. and 31st. No instrumental obsns. made: confined by a cold.

February.

Cold and frosty at first but much milder after the 13th.

- 2nd. Heavy snow.
- 3rd. 22° at 9 a.m.
- 5th. Now and then a little snow.
- 7th. Snow at night.
- 8th. Heavy snow at night.
- 11th. Snow in afternoon: tempestuous night.
- 17th. Halo round moon.
- 19th. Halo round moon.
- 21st. 3 p.m., heavy shower of rain with thunder.

March.

Cold: a good deal of snow.

- 6th. Now and then a little snow.
- 7th. - 8th. Snow in night.
- 9th. A little snow.
- 14th. Little snow.
- 15th. Snow in the morning.
- 22nd. Heavy snow.
- 27th. Hail.
- 28th. Heavy hail.

April.

Showery and mild.

- 8th. 6 p.m., shower of snow.
- 14th. - 15th. Snow in the night.
- 15th. 9 p.m., heavy thunderstorm.
- 20th. Slight shower of hail.
- 22nd. Frith edges begin to foliate.

May.

Showery and warm.

- 11th. Beech begin to foliate. Heard Cuckow.
- 12th. Noon, heavy thunderstorm with hail.
- 30th. Apple trees in full bloom.

Measles rife.

June.

Dry and cool.

Some hay well made.

July.

Wet.

- 12th. Noon, shower with thunder.
- 18th. 'Recr. ran over'.
- 24th. Noon, heavy thunderstorm.
- 25th. Noon, thunderstorm.

Haymaking bad.

June.

Dry and warm. 1st. and 2nd. No observations. 10th. 9 p.m., heavy shower of rain and hail.

A very fine haymaking.

An epidemic of catarrh among the horses.

July.

Wet and cool: 1st. and 8th only days without rain until the 26th.

12th. Heavy shower with thunder and hail.

17th. Shower with thunder.

25th. - 31st. No observations. (in London).

Some corn cut. Haymaking not quite finished.

August.

Dry and warm.

1st. - 2nd. No observations. (in London). 7th. Part of which the latter part of last month. (i.e., rainfall had been accumulating in his absence).

A glorious harvest, most of corn cut in.

September.

On the whole a warm month.

10th. Showers, some with thunder.

11th. Stormy evening.

20th. Thunder at a distance.

October.

Wet and mild.

18th. Rainbow between 8 and 9 p.m.

26th. Stormy day.

November.

Wet.

10th. - 20th. Snow in the night.

20th. Snow and inch deep.

22nd. Snow 2 ins deep. New and then a little snow.

27th. Stormy.

December.

Cold, with a sharp frosty spell after Christmas.

12th. A little snow.

17th. House very damp.

22nd. 8 a.m., 24°.

23rd. 8 a.m., 24°.

27th. 8 a.m., 20°.

28th. 8 a.m., 17°.

29th. 8 a.m., 22°.

August.

Very wet.

- 5th. 'Receiver ran over'.
- 14th. - 15th. Stormy.
- 17th. and 18th. Stormy days.

A good deal of hay not yet made. Very little wheat cut.

September.

Very wet.

- 19th. Stormy day.

Low lands flooded greatly. Much wheat and more barley uncut and much of the latter damaged by lying out on the ground after cut. Haymaking finished before the middle of the month.

October.

Mild.

- 3rd. Stormy afternoon.

Barley harvest not yet finished.

November.

Very wet until the 16th.: then dry.

By the late fine weather the remainder of the corn got in.

December.

Calm and dry: the latter half of the month frosty.

- 18th. A little snow.
- 20th. Little snow.
- 25th. A little snow.
- 28th. 22° at 10 a.m.
- 31st. 22° at 9 a.m.

January.

Wet.

- 1st. Evening a little rain by which the ground glazed.
- 3rd. 'House very damp'.
- 19th. A little snow.
- 20th. Snow.
- 20th. - 21st. Snow in night.

February.

Cold and dry.

- 2nd. Stormy evening.
- 15th. - 16th. Snow in night.
- 26th. Now and then a little snow.

March.

Cold at first, but milder later.

- 4th. Now and then a little snow.
- 7th. and 8th. Circle round moon.
- 9th. - 10th. Snow in night.
- 10th. Snow and sleet.

January. Frosty. Now and then a little snow. Receiver ran over. Stormy afternoon. Snow in the night. Heavy snow, snow deep and drifted. No instrumental observations made: continued by a cold.

February. Cold and frosty at first but much milder after the 15th. Heavy snow. 22° at 3 a.m. Now and then a little snow. Snow at night. Heavy snow at night. Snow in afternoon: temperature night. Halo round moon. Halo round moon. 3 p.m.: heavy shower of rain with thunder.

March. Cold: a good deal of snow. Now and then a little snow. Snow in night. A little snow. Little snow. Snow in the morning. Heavy snow. Halo. Heavy hail.

April. Showery and mild. 3 p.m.: shower of snow. Snow in the night. 3 p.m.: heavy thunderstorm. Slight shower of hail. With edges begin to foliage.

May. Showery and warm. Beech begin to foliage. Noon, heavy thunderstorm with hail. Apple trees in full bloom. Hedges ripe.

June. Dry and cool. Some hay well made.

July. Wet. Noon, shower with thunder. 'Reck' ran over. Noon, heavy thunderstorm. Noon, thunderstorm.

Haymaking bad.

April.

Showery.

- 5th. Stormy evening.  
8th. Frith edges begin to foliate.  
10th. 'New recr. ran over'.  
20th. Stormy evening.  
26th. Heard cuckow.  
29th. Beech begin to foliate.

May.

Showery and warm.

- 9th. Afternoon, thunder.  
17th. Stormy day.  
31st. Some apple trees blown well, most little or not at all.

June.

Dry and warm.

A good deal of hay well made.

July.

Dry and hot.

- 23rd. and 24th. No observations: confined by an accident.  
25th. 2 p.m., 76°  
26th. Noon, 76°: 8 p.m., 71°  
31st. 2 p.m., 80°

Haymaking finished, some too much heated by being put to dry in sun. Wheat cut in many places.

August.

Hot: very dry until the 18th.

- 1st. 1 p.m., 81°  
11th. 2 p.m., 82°

September.

Warm.

3rd. Thunder to the Eastward.

A most glorious <sup>harvest</sup> finished early in the month. Riots in several parts of the Kingdom on account of the high price of wheat, etc.

October.

Showery and mild.

- 9th. - 10th. In night, heavy thunderstorm with hail.  
10th. Stormy day.  
25th. - 26th. Stormy night.

A fine wheat sowing.

November.

Wet.

- 3rd. Stormy afternoon.  
4th. Showers of sleet and snow.  
9th. Tempestuous morning. Barometer 28.10" at 9 a.m.

1800

December.

Wet and mild.

- 2nd. 2 p.m., slight shower of hail.
- 4th. and 5th. Snow.
- 8th. - 9th. Snow in the night.
- 29th. 6 to 8 p.m., heavy snow.
- 30th. Snow at night.
- 31st. Morning, deep snow.

1801

January.

Mild.

- 4th. Very stormy.
- 5th. Part drawn at the evening but receiver ran over a little the morning. 1.38" recorded at 9 a.m.
- 22nd. 4 p.m., heavy showers of hail.
- 23rd. Little snow.
- 26th. Snow.
- 28th. - 31st. No instrumental observations.

February.

Mild.

- 11th. Frequently a little snow.
- 13th. Now and then a little snow.
- 14th. Frequently a little snow.
- 19th. Snow.
- 23rd. Noon, a slight shower of hail.

March.

Showery and mild: inclined to be stormy.

- 13th. Frith edges begin to foliate.
- 14th. Snow at night.
- 15th. 4 p.m., heavy showers of rain and hail.
- 16th. Stormy day.
- 17th. Stormy day.
- 20th. Stormy day.
- 21st. Stormy day; shower of hail at noon.
- 23rd. 3 p.m., slight shower of hail.

April.

Dry and cool.

- 10th. Frequent showers of hail and sleet.
- 11th. Slight showers of hail.
- 12th. Afternoon, heavy snow.
- 19th. Many cough at Church.
- 21st. Beech begin to foliate.
- 24th. Heard cuckow.
- 27th. 3 p.m., 67°.

May.

Dry, except for the last three days.

- 3rd. Many cough at Church.
- 8th. Thunder at a distance.
- 9th. Apple trees in full bloom.
- 13th. 7 p.m., heavy shower of hail.
- 16th. - 20th. Confined by illness.
- 30th. Very heavy storm of thunder.

June.

~~showery and, on the whole, cool.~~ Dry and warm

- 9th. 4 p.m., 76°, 5 p.m., 75°
- 24th. 5 p.m. thunder.

A good deal of hay well made.

April.

Showery.

- 23rd. Beech begin to foliate.
- 28th. Heard cuckow.
- 30th. Stormy evening.
- 10th. New year. rain over.
- 23rd. Frith edges begin to foliate.
- 28th. Stormy evening.

May.

Showery and warm.

- 1st. Not at all.
- 21st. Some apple trees blown well, most little or not at all.
- 17th. Stormy day.
- 23rd. Afternoon, thunder.

June.

Dry and warm.

A good deal of hay well made.

July.

Dry and hot.

- 1st. 2 p.m., 66°.
- 23rd. Noon, 76°; 2 p.m., 71°.
- 28th. 2 p.m., 76°.
- 23rd. and 24th. No observations: confined by an accident.

Haymaking finished, some too much heated by being put to dry in sun. Wheat cut in many places.

August.

Hot: very dry until the 13th.

- 11th. 2 p.m., 68°.
- 1st. 1 p.m., 61°.

September.

Warm.

3rd. Thunder to the Westward.

A most glorious finished early in the month. Rises in several parts of the Kingdom on account of the high price of wheat, etc.

October.

Showery and mild.

- 23rd. - 28th. Stormy night.
- 10th. Stormy day.
- 9th. - 10th. In night, heavy thunderstorm with hail.

A fine wheat sowing.

November.

Wet.

- 9th. Tempestuous morning.
- 23rd. Showers of sleet and snow.
- 3rd. Stormy afternoon.

Barometer 28.10" at 9 a.m.

1801

July.

Showery and, on the whole, cool.

- 1st. Thunder.
- 16th. Afternoon, two or three thunderstorms, one with large hail.
- 27th. Thunder.

Some interruptions in hay making by weather but most made well. Some corn cut.

August.

Dry and hot.

- 12th. Thunder at a distance.
- 18th. 6 p.m., 72°
- 20th. 3 p.m., 77°

September.

Showery.

Harvest nearly finished 2 or 3 weeks ago except beans, most of which now got in.

October.

Showery and warm.

Apples very fine and early ripened: much cyder making

November.

Wet: sharp frost at the end of the month.

- 3rd. Stormy at night.
- 4th. Stormy day.
- 27th. Heavy snow, Snow 4 or 5 ins. deep.
- 29th. 9 a.m., 25°
- 30th. Little snow. 'Recr. ran over very little'.

December.

Mild with one frosty period in mid-month.

- 12th. - 13th. Little snow in night.
- 14th. Circle round moon.
- 16th. - 17th. Little snow in night.
- 18th. 9 a.m., 27°
- 19th. 8 a.m., 25°
- 20th. 9 a.m., 27°

1802

January.

Cold and frosty until the 16th.: then mild.

- 2nd. Some snow or sleet.
- 2nd. - 3rd. Snow in night.
- 3rd. Snow.
- 4th. 8 a.m., 23°
- 5th. Gentle snow.
- 6th. Gentle snow.
- 11th. 8 a.m., 22°
- 12th. - 13th. No instrumental observations.
- 13th. Now and then showers of snow.
- 14th. 9 a.m., 24°
- 15th. 9 a.m., 20°
- 16th. 9 a.m., 18°
- 17th. 9 a.m., 35°
- 20th. - 21st. Stormy night.
- 31st. Stormy evening.

1802

February.

Showery.

- 1st. Stormy day.
- 4th. Stormy day. 4 p.m., heavy storm of hail.
- 11th. Snow.
- 13th. Now and then a little snow.
- 15th. Little snow in the evening.
- 25th. Stormy day.

March.

Dry.

- 1st. 'Mezereon tree in full bloom' (\*)
- 13th. Now and then a little snow.
- 21st. Stormy morning.
- 27th. 60° at 4 p.m.
- 29th. Showers of hail and snow.

April.

Dry.

- 1st. Frith hedges begin to foliate. (\*\*)
- 12th. Showers of hail and sleet.
- 13th. Hail and snow.
- 26th. Heard cuckow.
- 27th. Beech begin to foliate.

May.

Warm except for a cold snap in mid-month.

- 12th. Apple trees in full bloom.
- 14th. Showers of hail and snow.
- 15th. Smart frost, vegetables much injured or killed
- 15th. Two or three showers of hail.
- 16th. Smart frost, showers of hail and sleet.
- 17th. Wind above, NW. (surface S by W).

June.

Cool.

- 8th. Thunder.
- 28th. Thunder.
- 16th. - 22nd. No instrumental observations.

Very little hay made.

July.

Wet and cool.

Bad hay making.

August.

Dry.

- 5th. 77° at 2 p.m.
- 10th. Thunder at a distance.

Hay making finished; last well made. Considerable quantity of corn cut in very good state.

(\*) This is the first observation upon the flowering of this plant. It is only mentioned two or three times in the later years.

(\*\*) Hitherto the spelling has always been 'edges'. It is 'hedges' here for the first time and it so remains until the end of the record.

July. Showery and, on the whole, cool.

- 1st. Thunder.
- 13th. Afternoon: two or three thunderstorms, one with large hail.
- 27th. Thunder.

Some interruptions in hay making by weather but most made well. Some corn cut.

August.

Dry and hot.

- 13th. Thunder at a distance.
- 18th. 8 p.m., 75°
- 20th. 5 p.m., 77°

September.

Showery.

Harvest nearly finished 2 or 3 weeks ago except beans, most of which now got in.

October.

Showery and warm.

Apples very fine and early ripened: much other making

November.

Wet: sharp frost at the end of the month.

- 3rd. Stormy at night.
- 4th. Stormy day.
- 27th. Heavy snow. Snow 4 or 5 ins. deep.
- 29th. 3 a.m., 25°
- 30th. Little snow. Recr. ran over very little.

December.

Mild with one frosty period in mid-month.

- 13th. - 15th. Little snow in night.
- 14th. Circle round moon.
- 17th. - 17th. Little snow in night.
- 18th. 9 a.m., 27°
- 19th. 8 a.m., 25°
- 20th. 9 a.m., 27°

January.

Cold and frosty until the 16th: then mild.

- 2nd. Some snow or sleet.
- 2nd. - 3rd. Snow in night.
- 3rd. Snow.
- 4th. 8 a.m., 25°
- 5th. Gentle snow.
- 6th. Gentle snow.
- 7th. 8 a.m., 25°
- 11th. - 13th. No instrumental observations.
- 13th. Now and then showers of snow.
- 14th. 9 a.m., 24°
- 15th. 9 a.m., 20°
- 16th. 9 a.m., 18°
- 17th. 9 a.m., 25°
- 20th. - 21st. Stormy night.
- 21st. Stormy evening.

1802

September.

Dry and warm.

- 2nd. Lightning, evening.
- 9th. - 11th. No instrumental observations.
- 10th. Stormy morning.
- 11th. Eclipse of the moon.
- 12th. Noon, heavy storm of hail.

A glorious harvest: the wheat and barley got in by the middle of the month.

October.

Wet and warm.

- 4th. Shower of hail.
- 17th. Rimy.
- 19th. Stormy.
- 21st. - 22nd. Stormy night.

November.

Cold but no severe frosts.

~~11th. Stormy.~~

December.

Cold but no severe frosts.

- 10th. Stormy.
- 17th. Stormy.
- 26th. A little snow.
- 27th. Wind above SW. (surface E by S).

1803

January.

Cold and frosty.

- 10th. Stormy day.
- 12th. - 16th. Frosty period.
- 17th. Sleet and snow.
- 19th. A little snow.
- 20th., 26th. and 27th. Snow.
- 25th. - 29th. Temp. below 30° at all observations.
- 28th. Close snow.

February.

Cold until the 12th. but milder afterwards.

- 3rd. A little snow.
- 3rd. - 4th. Snow in night.
- 6th. and 13th. Many cough at Church.
- 8th. Snow.
- 12th. Rain which first fell froze on ground.
- 17th. Stormy day.
- 20th. - 21st. Snow in night.
- 26th. and 27th. Stormy.

Pleurisies and peripneumonias prevalent.

March.

Dry and mild.

- 3rd. Little snow at night.
- 5th. Halo round moon.
- 6th. - 7th. Snow in night.
- 18th. 'Mezerion tree in full bloom.'
- 27th. 5 p.m., 60°. Very many cough at Church.

Vegetation forward. Epidemic catarrh very prevalent here these 2 or 3 weeks.

1803

# April.

Showery: mild at first but cold towards the end of the month.

- 1st. Frith hedges begin to foliate.
- 4th. Shower of hail.
- 8th. Heavy showers of hail.
- 10th. Many cough at Church.
- 15th. 67° at 4 p.m.
- 16th. Cut asparagus.
- 18th. Shower of hail.
- 21st. Stormy morning. At 4 p.m., 49°
- 22nd. Showers of hail.
- 23rd. Two showers with thunder.
- 24th. Showers of hail. Many cough at Church.
- 25th. Heard cuckow.
- 26th. Smart frost.
- 27th. Showers of hail.
- 28th. At noon, 44°.
- 30th. Beech begin to foliate. 'A few trees began to foliate above a fortnight ago and but for the late cold weather the foliage would probably have been as forward a week or 10 days ago as at present'.

# May.

Cool and windy.

- 2nd. and 3rd. Stormy days.
- 8th., 15th. and 22nd. Many cough at Church.
- 12th. Apple trees in full bloom.
- 16th. 6 a.m., 41° on removing it to a N. aspect being 43° in its usual place.

Some tender vegetables killed by frost.

# June.

Cool at first, warmer after the 13th.

- 4th. Heavy shower of hail, 4 p.m.
- 19th. 'Began to cut St. foin and grass and on 24th. made thick'. (\*)
- Hay making late: some made very good.

# July.

Dry and hot.

- 19th. 7 p.m., thunder.
- 20th. 4 to 6 p.m., thunder.

# August.

Dry.

- 9th. Thunder at noon.
- 17th. Eclipse of the sun.
- 18th. 7 p.m., storm near.

A glorious harvest, the Barley ripe before the wheat, very little wheat remaining out'.

# September.

Dry and warm.

- 5th. Some tender vegetables hurt by frost.
- 20th. 'Receiver just ran over'.
- 21st. 'Believe the rain to be but little, but by accident the cock left open; not ascertained'.
- 25th. Several cough at Church.

Grass so scarce that cattle foddered in many places

(\*) i.e. sainfoin.

# September.

Dry and warm.

- 2nd. Lightning, evening.
- 3th. No instrumental observations.
- 4th. Stormy morning.
- 10th. Eclipses of the moon.
- 11th. Heavy storm of hail.
- 12th.

A glorious harvest: the wheat and barley got in by the middle of the month.

# October.

Wet and warm.

- 4th. Shower of hail.
- 17th. Rain.
- 19th. Stormy.
- 21st. Stormy night.

# November.

Cold but no severe frosts.

Kxxxx.

# December.

Cold but no severe frosts.

- 10th. Stormy.
- 17th. Stormy.
- 22th. A little snow.
- 27th. Wind above SW. (surface S by E).

# January.

Cold and frosty.

- 10th. Stormy day.
- 12th. Frosty period.
- 17th. Frost and snow.
- 19th. A little snow.
- 20th. Snow.
- 22th. and 27th. Snow.
- 23th. Temp. below 80° at all observations.
- 28th. Close snow.

# February.

Cold until the 12th. but milder afterwards.

- 7th. A little snow.
- 14th. Snow in night.
- 15th. Many cough at Church.
- 17th. Snow.
- 18th. Rain which fell froze on ground.
- 19th. Stormy day.
- 20th. Snow in night.
- 22th. and 27th. Stormy.

River-fishes and peripneumonia prevalent.

# March.

Dry and mild.

- 2nd. Little snow at night.
- 5th. Mild round noon.
- 7th. Snow in night.
- 10th. 'Mention trees in full bloom'.
- 12th. 5 p.m., 60°. Very many cough at Church.
- 27th.

Vegetation forward. Epidemic catarrh very prevalent here these 2 or 3 weeks.

1803

# October.

Dry and mild.

Water very low in all rivers. No coal brought down the Severn these two or three months.

# November.

Wet.

16th. Snow and sleet.  
22nd. Evening, heavy thunderstorm with hail.

# December.

Wet.

9th. Rimey.  
15th. Snow. 'Receiver ran over but little appeared to be wasted'.  
24th. and 25th. Stormy days.

1804

# January

Very mild; wet.

4th. - 5th. Little snow in the night.  
14th. Stormy morning.  
19th. - 20th. Tempestuous night.  
21st. and 22nd. Stormy days.  
26th. Eclipse of the moon.  
28th. 'Merzereon tree in full bloom'.

Pasture fields very green: fruit trees, etc., very forwardly.

# February.

Cold: but little frost.

4th. Little snow.  
11th. Eclipse of the sun.  
15th. Snow.  
16th. Snow and sleet.  
19th. and 26th. Many cough at Church.

# March.

Cold and frosty.

3rd. Snow.  
4th. Gentle snow. Many cough at Church.  
6th. Snow.  
17th. Frith hedges begin to foliate: some of them began 2 or 3 weeks ago but checked by late cold weather.  
21st. Large halo round moon.  
22nd. Circle round the sun like the halo.  
23rd. 27° at 8 a.m.  
25th. Showers of hail about: stormy. Many cough at Church.  
27th. Showers of hail.  
31st. 2 or 3 showers of hail.

April.

Showery: mild at first but cold towards the end of the month.

1st. Frith hedges begin to foliate.  
4th. Shower of hail.  
8th. Heavy showers of hail.  
10th. Many cough at Church.  
13th. 67° at 4 p.m.  
15th. Out saparagus.  
18th. Shower of hail.  
21st. Stormy morning. At 4 p.m. 49°  
23rd. Showers of hail.  
25th. Two showers with thunder.  
28th. Showers of hail. Many cough at Church.  
31st. Heavy shower.  
32nd. Smart frost.  
33rd. Showers of hail.  
34th. At noon, 44°  
35th. Beech begin to foliate. A few trees began to foliate above a fortnight ago and but for the late cold weather the foliage would probably have been as forward a week or 10 days ago as at present.

May.

Cool and windy.

2nd. and 3rd. Stormy days.  
8th. 15th. and 22nd. Many cough at Church.  
13th. Apple trees in full bloom.  
15th. 3 p.m. 41° on removing it to a N. aspect being 43° in the usual place.

Some tender vegetables killed by frost.

Cool at first, warmer after the 15th.

4th. Heavy shower of hail. 4 p.m.  
10th. 'Began to cut St. John and grass and on 26th. made thick'.  
May making late: some made very good.

July.

Dry and hot.

10th. 7 p.m. thunder.  
20th. 4 to 6 p.m. thunder.

August.

Dry.

9th. Thunder at noon.  
13th. Eclipse of the sun.  
15th. 7 p.m. storm near.

A glorious harvest, the barley ripe before the wheat, very little wheat remaining out.

September.

Dry and warm.

5th. Some tender vegetables hurt by frost.  
20th. 'Receiver just ran over'.  
21st. Believe the rain to be but little, but by accident the cock left open; not ascertained.  
28th. Several cough at Church.

Grass so scarce that cattle foddered in many places.

(\*) i.e. rain.

April.

Cold until the 23rd., afterwards warmer.

- 1st., 8th. and 15th. Many cough at Church.  
 5th. 9 a.m., sleet and snow.  
 12th. Noon, 40°.  
 18th. Showers of hail.  
 19th. Showers of hail and sleet.  
 20th. Evening, a little snow.  
 20th. - 21st. Snow in night.  
 24th. Stormy afternoon.  
 28th. Heard cuckow.  
 30th. Beech begin to foliate.

May.

Warm.

- 2nd. Lightning.  
 7th. 'summer seems to burst out suddenly'.  
 13th. Apple trees in full bloom.  
 31st. Apple trees very much blighted: blossom soon disappeared.

June.

Dry and warm.

- 12th Began to cut grass and St. foin and on 20th. made thick.

Much good hay made.

July.

Wet and cool.

- 8th. Thunderstorm at Stonehouse.  
 10th. 'Recr. ran over: but little wasted'.  
 24th. Noon, thunderstorm.

Hay making very fine in general: not yet finished.

August.

Showery at first but dry after the 18th.

- 3rd. Afternoon, continued thunder 2 or 3 hours.  
 12th. Shower of rain with thunder.

A good harvest: most of wheat got in.

September.

Very dry: the only rain being 0.04 ins. falling on the 10th.: warm.

- 12th. 2 p.m., 72°  
 30th. Most of harvest finished 2 or 3 weeks ago.

October.

Showery and mild.

- 16th. - 17th. Stormy night.  
 22nd. Aurora borealis, great.

November.

Wet.

- 24th. Snow.

December.

Frosty after 18th.

1804

December (contd).

Frosty after the 18th.

- 17th. Snow.
- 18th. Now and then a little snow.
- 22nd. Snow at night.
- 23rd. Gentle snow.
- 26th. A little snow.

1805

January.

Cold but no severe frosts.

- 1st. - 2nd. Snow or sleet in night.
- 2nd. Ground glazed.
- 10th. Rimey.
- 12th. A little snow.
- 21st. - 22nd. A little snow in the night.
- 23rd. Snow.
- 28th. - 29th. A little snow in night.
- 29th. Snow.
- 30th. Snow.

February.

On the whole mild.

- 21st. Stormy afternoon.
- 24th. Stormy afternoon.
- 28th. Afternoon, showers of hail and snow.

March.

Dry and mild.

- 1st. Stormy afternoon with snow.
- 16th. 'Mezereon tree in full bloom'.
- 29th. Now and then a little snow.

April.

Warm at first but colder towards the end of the month.

- 2nd. Frith hedges begin to foliate.
- 4th. Stormy day.
- 25th. 5 p.m., heavy shower of hail.
- 27th. Heard cuckoo.
- 28th. - 29th. Snow in night.
- 29th. Ground covered with snow 2 or 3 ins. deep.
- Frequent showers of snow, rain and sleet.

Snow drifted to such a depth on the Hills that not wholly melted until the rain of 7th. May fell.

May.

Seasonable weather.

- 1st. Beech begin to foliate. Wind above W or NW. (surface, NW).
- 2nd. Wind above NW. (surface, N by E).
- 3rd. Wind above E. (surface W)
- 11th. Heavy shower of hail.
- 25th. Apple trees in full bloom.

April. Cold until the 23rd., afterwards warmer.

- 1st. and 12th. Heavy fog at Church.
- 2nd. 9 a.m. sleet and snow.
- 12th. Noon, 40°.
- 13th. Showers of hail.
- 14th. Showers of hail and sleet.
- 15th. Evening, a little snow.
- 20th. - 21st. Snow in night.
- 22nd. Stormy afternoon.
- 23rd. Heard cuckoo.
- 30th. Beech begin to foliate.

May.

Warm.

- 2nd. Lightning.
- 7th. Summer seems to burst out suddenly.
- 12th. Apple trees in full bloom.
- 21st. Apple trees very much blighted: blossom soon disappeared.

June.

Dry and warm.

- 12th. Began to cut grass and St. John and on 12th. made thick.

Much good hay made.

July.

Wet and cool.

- 8th. Thunderstorm at Stonehouse.
- 10th. 'Reck' ran over: but little wasted.
- 24th. Rain, thunderstorm.

Hay making very fine in general: not yet finished.

August.

Showery at first but dry after the 12th.

- 3rd. Afternoon, continued thunder 2 or 3 hours.
- 12th. Shower of rain with thunder.

A good harvest: most of wheat got in.

September.

Very dry: the only rain being 0.04 ins. falling on the 10th.: warm.

- 12th. 3 p.m., 42°.
- 30th. Most of harvest finished 2 or 3 weeks ago.

October.

Showery and mild.

- 12th. - 17th. Stormy night.
- 22nd. Anxious borealis, great.

November.

Wet.

- 24th. Snow.

December.

Frosty after 12th.

1805

June.

Cool.

7th. A very great blight.  
12th. Shower of hail.  
28th. Thunder.

Little or no hay made: this part of the season backward.

July.

Showery and warm.

23rd. 5 a.m., heavy thunderstorm.  
29th. 1 p.m., thunder.

August.

Hay for most part well made: a good deal still about. Some corn got in but much more out.

September.

Warm.

Harvest finished: crops plenty.

October.

Mild.

13th. A slight aurora borealis, 8 p.m.

November.

Cold, but little frost.

26th. 'Therm. frame out of order'.  
28th. Wind SW above (surface NE).

December.

Mild.

12th. Snow.  
13th. Showers of snow.  
18th. Snow and sleet.  
23rd. A little snow.

1806

January.

Very wet: little frost, but a good deal of snow.

2nd. - 3rd. A little snow in night.  
8th. Shower of hail.  
10th. Shower of snow: tempestuous night.  
12th. Snow.  
13th. - 14th. Snow in night.  
16th. Stormy day.  
26th. Heavy snow.  
27th. A little snow.  
28th. Snow.  
30th. Snow.

February.

Cold.

1st. Snow.  
3rd. Snow.  
4th. Snow.  
9th. 4 p.m., shower of hail.  
21st. Stormy evening.

Influenza lately rife.

December (contd.)  
Treaty after the 18th.

17th. Snow.  
18th. Now and then a little snow.  
22nd. Snow at night.  
23rd. Gentle snow.  
24th. A little snow.

January.  
Cold but no severe frosts.

1st. - 2nd. Snow or sleet in night.  
3rd. Ground glazed.  
10th. Windy.  
12th. A little snow.  
21st. - 22nd. A little snow in the night.  
23rd. Snow.  
24th. - 25th. A little snow in night.  
26th. Snow.  
27th. Snow.

February.  
On the whole mild.

21st. Stormy afternoon.  
24th. Stormy afternoon.  
25th. Afternoon, showers of hail and snow.

March.  
Dry and mild.

1st. Stormy afternoon with snow.  
18th. 'Keweenaw' tree in full bloom.  
29th. Now and then a little snow.

April.  
Warm at first but colder towards the end of the month.

2nd. With hedges begin to foliate.  
4th. Stormy day.  
23rd. 3 p.m., heavy shower of hail.  
27th. Heavy shower.  
28th. - 29th. Snow in night.  
30th. Ground covered with snow 2 or 3 ins. deep.  
Frequent showers of snow, rain and sleet.

Snow drifted to such a depth on the hills that not wholly melted until the rain of 7th. May fell.

May.  
Seasonable weather.

1st. Beech begin to foliate.  
(surface, NW).  
2nd. Wind above NW.  
3rd. Wind above E. (surface W).  
15th. Heavy shower of hail.  
22nd. Apple trees in full bloom.

March.

Cold: a good deal of snow.

- 9th. Heavy showers of hail: some snow.
- 10th. Frequent showers of snow.
- 14th. Heavy snow.
- 15th. Wind above W. (surface N by E).
- 15th. 26th. Snow in night.
- 17th. Heavy snow.
- 27th. Frith hedges begin to foliate.

April.

Dry: cold at first but milder later.

- 1st. Wind above SE (surface NE).
- 4th. Wind above SE (surface NE).
- 5th. Showers of snow sleet and hail.
- 6th. Wind above SE (surface NE).
- 6th. Many cough at Church.
- 7th. Wind above SE (surface NE).
- 11th. A little snow.
- 13th. Gentle snow. Many cough at Church.
- 14th. Frequent showers of snow.
- 15th. Now and then a little snow.

May.

Warm.

- 5th. Heard cuckoo. (\*)
- 5th. Beech begins to foliate.
- 8th. Lightning, evening.
- 19th. Apple trees in full bloom.

June.

Dry.

- 3rd. - 6th. Instrumental observations omitted.
- 16th. Eclipse of the sun.

Much fine hay made: crops thin.

July.

Showery.

- 7th. Afternoon, thunder.
- 17th. Thunder in the morning. 5 p.m., shower of hail.
- 21st. Thunder at a distance.
- 24th. Thunder.

August.

Warm.

- 19th. 6 p.m., thunder. Evening, thunder almost continuous. Thunder at night.
- 20th. 4 a.m., thunderstorm. Noon, thunder.
- 26th. Afternoon, thunder at a distance.
- 27th. 'Receiver ran over'.
- 28th. - 29th. 'Thunder at night'.

Very little wheat remaining out. Barley unequally ripe, much got in: most of beans cut.

September.

Warm.

- 7th. - 19th. No instrumental observations.

Most or all the corn got in.

October.

(\*) Cuckoo is spelt thus for the only time.

1806

October (contd).

Dry and mild.

21st. Stormy morning.

November.

Mild and wet.

4th. 'Had a good plate of kidney beans for dinner'.  
19th. Slight showers of hail.  
23rd. Halo round the moon.

December.

Mild and wet.

1st. Stormy at night.  
11th. Wind above W (surface NE).  
12th. Stormy evening.  
13th. Stormy morning: thunder in evening.  
15th. - 16th. Stormy night.

Hepatica in blossom some weeks. Aconite now in  
blossom. Mezerion begins to bloom. Crocus forward and  
in some places in bloom.

1807

January.

Cold but not frosty.

2nd. Rimey.  
14th. Gentle snow.  
21st. A little snow.  
22nd. A little snow. 'Receiver ran over'.  
31st. Afternoon, snow.

February.

Cold but no severe frost.

2nd. Frequent snow.  
4th. Snow.  
6th. Snow at night.  
17th. Snow.  
27th. A little hail and snow.

March.

Dry and cold.

5th. 27° at 6 a.m.  
6th. 26° at 6 a.m. Afternoon, heavy shower of snow.  
29th. 4 p.m., smart shower of hail.

April.

Dry: last few days very warm.

1st. A little snow.  
2nd. A little snow.  
8th. Wind above NW (surface S by W).  
11th. Frith hedges begin to foliate.  
15th. Now and then a little hail.  
16th. - 17th. Considerable snow in night.  
27th. 72° at 2 p.m.  
30th. 73° at 2 p.m.

May.

Wet and warm.

- 9th. Heard the cuckow. Beech almost in full foliage.  
 16th. Apple trees in full bloom.  
 24th. 2 p.m., 78°  
 25th. 1 p.m., 79°  
 29th. Shower of hail.

June.

Cool.

- 9th. Thunder.  
 16th. - 20th. No instrumental observations.

Much hay made, crops good.

July.

First half dry, latter half wet.

- 24th. Stormy morning, thunder.

August.

Cool.

- 24th. Thunder.

A fine harvest: most of the wheat and great part of the grain got in.

September.

A cold spell in mid-month with slight frosts.

October.

Mild.

- 10th. A few low clouds from SW. (surface wind NW).  
 23rd. 'Receiver supposed to have run over'.

November.

Wet and cold.

- 2nd. Stormy evening.  
 8th. 4 p.m., heavy shower of hail. Snow.  
 10th. 'Receiver ran over'.  
 12th. Snow  $\frac{3}{4}$  inches deep.  
 13th. Hard frost, ice  $\frac{1}{2}$  inch thick.  
 13th. Heavy snow in afternoon and evening.  
 14th. Snow 4 inches deep.  
 15th. Thaw. Many cough at Church.  
 19th. Snow.  
 21st. Snow.  
 30th. Now and then a little snow.

December.

Cold, but mild and stormy the last six days.

- 8th. Heavy snow.  
 24th. Rime.  
 28th. Stormy afternoon and evening.  
 29th. Tempestuous afternoon with storm of hail.  
 31st. Stormy evening.

October (contd.)  
Dry and mild.

21st. Stormy morning.

November.  
Mild and wet.

4th. Had a good plate of kidney beans for dinner.  
 19th. Slight shower of hail.  
 23rd. Hail round the noon.

December.  
Mild and wet.

1st. Stormy at night.  
 11th. Wind above W (surface NW).  
 12th. Stormy evening.  
 13th. Stormy morning: thunder in evening.  
 14th. - 15th. Stormy night.

16th. Negatives in blossom some weeks.  
 17th. Negatives in blossom some weeks.  
 18th. Negatives in blossom some weeks.  
 19th. Negatives in blossom some weeks.  
 20th. Negatives in blossom some weeks.

January.  
Cold but not frosty.

2nd. Rime.  
 14th. Gentle snow.  
 21st. A little snow.  
 22nd. A little snow.  
 23rd. A little snow.  
 24th. A little snow.

February.  
Cold but no severe frost.

2nd. Frequent snow.  
 4th. Snow.  
 6th. Snow at night.  
 17th. Snow.  
 23rd. A little hail and snow.

March.  
Dry and cold.

2nd. 27° at 8 a.m.  
 6th. 28° at 8 a.m.  
 23rd. 4 p.m., sharp shower of hail.

April.  
Dry: last few days very warm.

1st. A little snow.  
 2nd. A little snow.  
 8th. Wind above NW (surface S by W).  
 11th. With hedges begin to foliate.  
 12th. Now and then a little hail.  
 13th. - 14th. Considerable snow in night.  
 15th. 70° at 2 p.m.  
 16th. 70° at 2 p.m.

January.

One cold spell in mid-month.

- 2nd. 4 p.m., smart shower of hail.
- 14th. A little snow.
- 16th. Now and then snow.
- 18th. 25° at 8 a.m.
- 20th. A little snow.
- 27th. Now and then a little snow.

February.

Mild, with one cold spell in mid-month.

- 2nd. Shower of hail.
- 12th. Stormy morning with snow.
- 14th. 'The Stroud coaches which should have come in yesterday did not arrive until to-day'.
- 15th. 25° at 7 a.m.

March.

Very dry: mild at first but colder later.

- 15th. Wind SE above (surface E).
- 18th. Now and then a little snow.
- 19th. Frequent snow.
- 22nd. Frequent snow.

April.

Wet and cold.

- 1st. Sometimes a little snow.
- 3rd. Snow.
- 5th. Stormy day. 'Receiver ran over'.
- 17th. 4 p.m., slight shower of hail.
- 18th. Frith hedges begin to foliate.
- 19th. Snow in morning.
- 20th. Snow.
- 21st. Snow: heavy shower of hail.
- 23rd. Frequent showers of hail.
- 24th. Frequent showers of hail.
- 25th. Shower of hail and snow.

May.

Warm.

- 2nd. Heard cuckow.
- 4th. Beech begin to foliate. 73° at 2 p.m.
- 20th. Apple trees in full bloom.
- 31st. Thunder.

June.

Very cool at first but much warmer later.

- 11th. One or two heavy thunderstorms round about.

July.

Showery, warm and thundery.

- 12th. 82° at 2 p.m.
- 13th. 84° at 2 p.m.
- 14th. 'late evening much lightning with one short but smart shower, tho' none collected in recr.: probably evaporated by the heat'.
- 15th. Much thunder and lightning: hail. 79° at 5 p.m.
- 16th. 9 a.m., thunder. 'Recr. ran over'.
- 21st. Thunder.
- 23rd. and 24th. Thunder.
- 27th. Heavy rain with thunder.

Wet and warm.

- 2nd. Heard the cuckow.
- 12th. Apple trees in full bloom.
- 14th. 2 p.m., 73°
- 18th. 1 p.m., 73°
- 20th. Shower of hail.

June.

- 2nd. Thunder.
- 12th. - 20th. No instrumental observations.
- 14th. Much hay made, crops good.

July.

- 2nd. First half dry, latter half wet.
- 14th. Stormy morning, thunder.

August.

24th. Thunder.

A fine harvest: most of the wheat and great part of the grain got in.

September.

A cold spell in mid-month with slight frosts.

October.

- 10th. A few low clouds from SW. (surface wind NW).
- 22nd. 'Receiver supposed to have run over'.

November.

Wet and cold.

- 2nd. Stormy evening.
- 8th. 4 p.m., heavy shower of hail.
- 10th. 'Receiver ran over'.
- 12th. Snow 2 inches deep.
- 14th. Hard frost, ice 1/2 inch thick.
- 18th. Heavy snow in afternoon and evening.
- 14th. Snow 4 inches deep.
- 15th. Thaw. Many coughs at Church.
- 16th. Snow.
- 21st. Snow.
- 30th. Now and then a little snow.

December.

Cold, but mild and stormy the last six days.

- 8th. Heavy snow.
- 14th. Windy.
- 18th. Stormy afternoon and evening.
- 22nd. Tempestuous afternoon with storm of hail.
- 31st. Stormy evening.

August. Seasonable weather.  
9th. Noon, thunder.  
September. Showery.  
9th. Thunder.  
18th. 5 p.m., thunderstorm. Evening, lightning.  
October. Wet.  
23rd. Stormy evening.  
25th. Stormy evening.  
November. Seasonable.  
December. A fair amount of snow.  
15th. A little snow at night.  
17th. Showers of snow or sleet.  
21st., 22nd., 23rd. and 24th. Snow.  
25th. Many cough at Church.  
26th. Snow at night.  
27th. A little snow.

January. Wet and cold.  
2nd. Snow.  
3rd. Sometimes snow.  
4th. Snow at night.  
14th. Snow at night.  
19th. Sleet and rain, which froze on ground.  
21st. - 22nd. Snow in night.  
22nd. Heavy snow.  
23rd. Heavy snow at night. 21° at 8 a.m.  
25th. 'By an accident lost what was collected, which suppose must be so much or more than was collected twice yesterday, having left the cock open at night and placed a pail to receive the water which found thrown down'.  
29th. and 30th. Stormy days.  
February. Mild at first but last week colder.  
8th. Frequent snow.  
Pasture very green.  
March. First three weeks very dry: cold.  
13th. Frith hedges begin to foliate.  
14th. Snow and sleet in morning.  
28th. Hail and thunder. 'Receiver ran over'.  
30th. A little snow.

January. One cold spell in mid-month.  
2nd. 4 p.m., smart shower of hail.  
14th. A little snow.  
18th. Now and then snow.  
22nd. 22° at 8 a.m.  
23rd. A little snow.  
27th. Now and then a little snow.  
February. Mild, with one cold spell in mid-month.  
2nd. Shower of hail.  
12th. Stormy morning with snow.  
14th. The 28th coach which should have come in yesterday did not arrive until to-day.  
22nd. 22° at 7 a.m.  
March. Very dry: mild at first but colder later.  
12th. Wind SE above (surface N).  
18th. Now and then a little snow.  
19th. Frequent snow.  
22nd. Frequent snow.  
April. Wet and cold.  
1st. Sometimes a little snow.  
2nd. Snow.  
3rd. Stormy day. 'Receiver ran over'.  
4th. 4 p.m., slight shower of hail.  
17th. Frith hedges begin to foliate.  
18th. Snow in morning.  
19th. Snow.  
20th. Snow: heavy shower of hail.  
21st. Frequent showers of hail.  
22nd. Frequent showers of hail.  
23rd. Frequent showers of hail.  
24th. Frequent showers of hail.  
25th. Shower of hail and snow.  
May. Warm.  
2nd. Heard cuckoo.  
4th. Beech begin to foliate. 75° at 2 p.m.  
20th. Apple trees in full bloom.  
21st. Thunder.  
June. Very cool at first but much warmer later.  
11th. One or two heavy thunderstorms round about.  
July. Showery, warm and thundery.  
12th. 22° at 8 p.m.  
13th. 24° at 2 p.m.  
14th. Late evening much lightning with one short but smart shower, the 'none collected in rear': probably evaporated by the heat.  
15th. Much thunder and lightning: hail. 75° at 8 p.m.  
16th. 9 a.m., thunder. 'Receiver ran over'.  
21st. Thunder.  
22nd. and 24th. Thunder.  
27th. Heavy rain with thunder.

April.

Cold and showery with a good deal of snow.

- 3rd. Heavy shower of snow.  
 13th. 4 p.m., heavy shower of hail.  
 14th. Some showers of hail.  
 17th. Showers of snow and sleet.  
 18th. Frequent showers of snow.  
 19th. Frequent slight showers of snow.  
 20th. Afternoon, showers of hail and snow.  
 21st. Heavy snow.

Vegetation much retarded by the late cold weather.

May.

A very warm spell in the mid-month.

- 2nd. Heard cuckoo.  
 2nd. Showers of hail.  
 6th. Beech begin to foliate.  
 14th. Lightning with some distant thunder.  
 15th. 1 p.m., thunderstorm with large hail: 74° just before storm. Evening, thunder at a distance.  
 17th. 7 p.m., thunder.  
 20th. Apple trees in full bloom.  
 30th. 6 p.m., hailstorm with thunder.

June.

Cool, especially first half of the month.

- 2nd. Stormy day.

A good deal of hay well made.

July.

Wet at first but dry later.

- 4th. Thunder in morning.  
 6th. 'Receiver ran over'.  
 7th. - 8th. Thunder in night.  
 26th. 4 p.m., 74°.

A good deal of Hay injured by rain at the beginning of the month, but in general a good making.

August.

Wet.

- 6th. Thunder.  
 10th. Thunder.  
 18th. 6 p.m., thunder.  
 19th. Stormy afternoon with hail.

But little wheat secured.

September.

Wet and mild.

- 5th. 6 p.m., thunder.

The wheat pretty well secured in general. A good deal of Barley and Oats still out.

October.

Very dry and mild.

Seasonable weather.

9th. Noon, thunder.

September.

Showery.

9th. Thunder.

18th. 3 p.m., thunderstorm. Evening, lightning.

October.

Wet.

22nd. Stormy evening.

23rd. Stormy evening.

November.

Seasonable.

December.

A fair amount of snow.

18th. A little snow at night.

17th. Showers of snow or sleet.

21st. 22nd, 23rd, and 24th. Snow.

25th. Many coughs at Church.

26th. Snow at night.

27th. A little snow.

January.

Wet and cold.

2nd. Snow.

3rd. Sometimes snow.

4th. Snow at night.

14th. Snow at night.

15th. Sleet and rain, which froze on ground.

21st. 22nd. Snow in night.

23rd. Heavy snow.

24th. Heavy snow at night. 21° at 8 a.m.

25th. 'By an accident lost what was collected, which suppose must be so much or more than was collected twice yesterday, having left the cock open at night and placed a pail to receive the water which found its way down'.

26th. and 27th. Stormy days.

February.

Mild at first but last week colder.

8th. Frequent snow.

Pasture very green.

March.

First three weeks very dry; cold.

13th. Irish hedges begin to foliate.

14th. Snow and sleet in morning.

28th. Hail and thunder. 'Receiver ran over'.

30th. A little snow.

November.

Cold but little frost.

- 15th. A little snow.
- 23rd. - 24th. Hailstorm in night with tempestuous winds.

December.

Wet and mild.

- 11th. - 12th. Stormy night.
- 14th. and 15th. Stormy days.
- 25th. Wind above N (surface SW).

January.

Very mild until the 12th.: then a cold spell.

- 16th. 24° at 8 a.m., 26° at 2 p.m.
- 19th. A little snow.
- 21st. Rime. 22° at 8 a.m.
- 22nd. Snow.

February.

Mild until the 13th. Then a colder spell followed by milder weather on the 24th.

- 14th. - 15th. A little snow in the night.
- 16th. Snow at night.
- 18th. 23° at 7 a.m. Heavy snow in the afternoon.
- 22nd. - 23rd. Snow in the night.

March.

On the whole a cold month.

- 6th. A little snow.
- 9th. Shower with thunder.
- 10th. Stormy morning.
- 15th. - 16th. Little snow in night.
- 16th. Sleet in the evening.
- 28th. Frith Hedges begin to foliate.
- 29th. Noon, smart shower of hail.

April.

First half of month very wet.

- 4th. 'Receiver ran over'. At noon, smart shower of hail.
- 9th. Very wet day.
- 11th. Slight shower of hail.
- 12th. Two or three showers of snow.
- 24th. Heard cuckoo.
- 28th. Beech begin to foliate.

May.

Cool at first but warmer later.

- 16th. Apple trees in full bloom.

June.

Warm and dry.

- 9th. 7 p.m., thunderstorm.
- Very little hay made.

July.

Wet.

- 1st. 2 thunderstorms in afternoon.
- Very little hay made good.

August.

Cool.

- 5th. 10 a.m., thunderstorm at a distance.  
30th. - 31st. Heavy thunderstorm in the night.  
31st. Lightning in evening.

Most of the wheat got in.

September.

Dry and warm.

- 1st. - 7th. No observations.  
22nd. At noon, thunder at a distance. Evening, lightning.

October.

Mild and wet.

- 18th. 'Receiver ran over'.  
19th. Stormy.  
20th. Tempestuous morning.  
22nd. Stormy, early morning.

A glorious harvest tho' wheat failed in some places from damage done by frost or wire worm in the winter.

November.

Very wet.

- 6th. Snow.  
10th. Very wet and tempestuous day. 'Recr. ran over'.  
(2.6 in. rain).

December.

Wet and on the whole mild.

- 10th. 'Recr. ran over'.  
14th. Hailstorm with thunder.  
25th. Stormy day: 3 p.m., thunder. Stormy night with thunder.  
26th. and 27th. Stormy night.  
31st. Now and then a little snow.

January.

Cold and frosty.

- 1st. Snow.  
1st. - 10th. Temperature never above 31° at 8 a.m. or 2 p.m. observations.  
3rd. Snow.  
8th. 8 a.m., 24°  
27th. - 28th. A little snow in the night.  
29th. 8 a.m., 23°  
30th. 8 a.m., 25°. Heavy snow.

February.

Very showery.

March.

Dry except for three very wet days at the beginning of the month.

- 6th. - 8th. Very wet days.  
7th. Stormy. (1.0" rain).  
8th. Heavy snow. 'Recr. ran over'.  
21st. Frith Hedges begin to foliate.

1811

April.

Very mild.

7th. Snow.  
10th. - 11th. Snow in night.  
23rd. - 39th. No observations.  
23rd. Heard cuckow.  
29th. Shower of hail.

May.

Warm and showery.

1st - 8th. No observations.  
13th. Lightning at night.  
18th. 7 p.m., thunderstorm.  
22nd. Thunder.  
27th. Afternoon, heavy thunderstorm.  
28th. Heavy thunder with hail.

June.

Very few observations.

5th. One or two thunderstorms.  
8th. Two or three thunderstorms in different directions chiefly at a distance.  
12th. - 30th. No observations.

July.

Seasonable weather.

1st. - 8th. No observations.  
9th. 4 p.m., thunder.  
17th. 'Recr. ran over'.

August.

Cool.

19th. Thunder.

Much of the corn got in.

September.

Dry until the 20th.: daily rain afterwards.

20th. 1 p.m., thunderstorm.  
30th. 4 p.m., thunder.

A fine harvest.

October.

Warm and wet.

27th. Hail with thunder.

November.

Generally mild, but a cold spell from 21st. to 23rd.

5th. Stormy morning.

December.

A cold spell at the end of the month.

3rd. Stormy evening.  
27th. Heavy snow.  
29th. 8 a.m., 25°, 2 p.m., 24°  
31st. 8 a.m., 24°

January.

Cold, but very little hard frost.

- 3rd. - 4th. Snow in night.  
 5th. 2 p.m., little snow.  
 6th. - 7th. Sleet in night.  
 12th. Many cough at Church.  
 20th. 1 p.m., sleet.

Catarrhs and peripneumonias rife.

February.

Wet and mild.

- 9th. Confined by catarrh.  
 17th. Stormy evening.  
 22nd. Stormy day. 5 p.m., thunder with hail.  
 24th. Heavy snow. 'Recr. ran over'.  
 25th. - 27th. Confined by catarrh.

March.

Wet and cold.

- 3rd. Gentle snow.  
 7th. Stormy evening.  
 8th. Showers of hail with thunder.  
 9th. Now and then a little hail.  
 15th. 3 p.m., showers of hail.  
 18th. Snow.  
 19th. Snow very deep. Smart showers of snow.  
 20th. Snow.  
 24th. Snow at night.  
 28th. Stormy evening.

April.

Seasonable weather.

- 4th. Frith hedges begin to foliate.  
 22nd. Now and then a little hail.  
 25th. 1 p.m., heavy shower of hail.  
 'Therm. at 49° not long before the shower came on and an hour or two afterward rose to 46°'. (\*)  
 30th. Heard cuckow.

May.

Warm and showery.

- 8th. Beech begin to foliate.  
 13th. One or two heavy thunderstorms with hail.  
 21st. Thunder at a distance.  
 25th. Apple trees in full bloom.

June.

2nd. - 26th. No observations.

July.

Cool.

- 18th. Upper cloud from NW.  
 20th. 3 p.m., thunderstorm.  
 28th. Noon, thunderstorm.

Part of hay well made, part not: much yet to be made.

1812

August.

Cool.

5th. 'Receiver ran over'.

Harvest back'd: only a small part of the wheat reaped: some hay not yet made.

September.

Dry and warm.

16th. 'An accident having happened to the old hygrometer, put a new whipcord and fixed it at the height in which most probably the old one would have been'.

A late but most glorious harvest: the crop of wheat most productive.

October.

Wet.

14th. 'Recr. ran over'.  
19th. Stormy morning.

November.

Cold spell in mid-month.

3rd. Wind above SW (NE on surface).  
16th. Stormy evening.  
29th. Many cough at Church.

December.

Cold and dry.

10th. Rimey.  
13th. Many cough at Church.  
17th. Snow. Rain which froze on ground.  
18th. Gentle snow.  
19th. Wind S above (surface NE).  
24th. - 25th. Snow in night.  
26th. Slight shower of snow.

1813

January.

Cold.

3rd. Wind N above (SW surface).  
11th. Gentle snow.  
18th. - 19th. Confined by illness. 19th. Snow.  
23rd. A little snow.  
28th. 25° at 8 a.m.  
31st. Many cough at Church most Sundays past, particularly this day.

February.

Wet and stormy.

3rd. Wind above N by E. (surface SE).  
7th. Stormy morning.  
8th. Stormy morning.  
14th. Stormy morning.  
15th. Stormy evening.  
15th. - 16th. Stormy night with thunder and hail.  
17th. Tempestuous evening.  
18th. Tempestuous day.  
22nd. Stormy evening.

January.

1st. Cold, but very little hard frost.  
2nd. Snow in night.  
3rd. Little snow.  
4th. Snow in night.  
5th. Many cough at Church.  
6th. Little snow.  
7th. Snow in night.  
8th. Snow in night.  
9th. Snow in night.  
10th. Snow in night.  
11th. Snow in night.  
12th. Snow in night.  
13th. Snow in night.  
14th. Snow in night.  
15th. Snow in night.  
16th. Snow in night.  
17th. Snow in night.  
18th. Snow in night.  
19th. Snow in night.  
20th. Snow in night.  
21st. Snow in night.  
22nd. Snow in night.  
23rd. Snow in night.  
24th. Snow in night.  
25th. Snow in night.  
26th. Snow in night.  
27th. Snow in night.  
28th. Snow in night.  
29th. Snow in night.  
30th. Snow in night.  
31st. Snow in night.

February.

Wet and mild.

1st. Confined by catarrh.  
2nd. Stormy evening.  
3rd. Stormy day.  
4th. Heavy snow.  
5th. Confined by catarrh.  
6th. Confined by catarrh.  
7th. Confined by catarrh.  
8th. Confined by catarrh.  
9th. Confined by catarrh.  
10th. Confined by catarrh.  
11th. Confined by catarrh.  
12th. Confined by catarrh.  
13th. Confined by catarrh.  
14th. Confined by catarrh.  
15th. Confined by catarrh.  
16th. Confined by catarrh.  
17th. Confined by catarrh.  
18th. Confined by catarrh.  
19th. Confined by catarrh.  
20th. Confined by catarrh.  
21st. Confined by catarrh.  
22nd. Confined by catarrh.  
23rd. Confined by catarrh.  
24th. Confined by catarrh.  
25th. Confined by catarrh.  
26th. Confined by catarrh.  
27th. Confined by catarrh.  
28th. Confined by catarrh.  
29th. Confined by catarrh.  
30th. Confined by catarrh.  
31st. Confined by catarrh.

March.

Wet and cold.

1st. Gentle snow.  
2nd. Stormy evening.  
3rd. Showers of hail with thunder.  
4th. Now and then a little hail.  
5th. Showers of hail.  
6th. S.P.M., showers of hail.  
7th. Snow.  
8th. Snow very deep.  
9th. Snow very deep.  
10th. Snow very deep.  
11th. Snow very deep.  
12th. Snow very deep.  
13th. Snow very deep.  
14th. Snow very deep.  
15th. Snow very deep.  
16th. Snow very deep.  
17th. Snow very deep.  
18th. Snow very deep.  
19th. Snow very deep.  
20th. Snow very deep.  
21st. Snow very deep.  
22nd. Snow very deep.  
23rd. Snow very deep.  
24th. Snow very deep.  
25th. Snow very deep.  
26th. Snow very deep.  
27th. Snow very deep.  
28th. Snow very deep.  
29th. Snow very deep.  
30th. Snow very deep.  
31st. Snow very deep.

April.

Seasonable weather.

1st. With hedges begin to foliage.  
2nd. Now and then a little hail.  
3rd. I.P.M., heavy shower of hail.  
4th. There is at 4.30 not long before the shower came on and an hour or two afterwards rose to 48°. (\*)  
5th. Heard cuckoo.  
6th. Heard cuckoo.  
7th. Heard cuckoo.  
8th. Heard cuckoo.  
9th. Heard cuckoo.  
10th. Heard cuckoo.  
11th. Heard cuckoo.  
12th. Heard cuckoo.  
13th. Heard cuckoo.  
14th. Heard cuckoo.  
15th. Heard cuckoo.  
16th. Heard cuckoo.  
17th. Heard cuckoo.  
18th. Heard cuckoo.  
19th. Heard cuckoo.  
20th. Heard cuckoo.  
21st. Heard cuckoo.  
22nd. Heard cuckoo.  
23rd. Heard cuckoo.  
24th. Heard cuckoo.  
25th. Heard cuckoo.  
26th. Heard cuckoo.  
27th. Heard cuckoo.  
28th. Heard cuckoo.  
29th. Heard cuckoo.  
30th. Heard cuckoo.  
31st. Heard cuckoo.

May.

Warm and showery.

1st. Hedges begin to foliage.  
2nd. One or two heavy thunderstorms with hail.  
3rd. Thunder at a distance.  
4th. Apple trees in full bloom.  
5th. Apple trees in full bloom.  
6th. Apple trees in full bloom.  
7th. Apple trees in full bloom.  
8th. Apple trees in full bloom.  
9th. Apple trees in full bloom.  
10th. Apple trees in full bloom.  
11th. Apple trees in full bloom.  
12th. Apple trees in full bloom.  
13th. Apple trees in full bloom.  
14th. Apple trees in full bloom.  
15th. Apple trees in full bloom.  
16th. Apple trees in full bloom.  
17th. Apple trees in full bloom.  
18th. Apple trees in full bloom.  
19th. Apple trees in full bloom.  
20th. Apple trees in full bloom.  
21st. Apple trees in full bloom.  
22nd. Apple trees in full bloom.  
23rd. Apple trees in full bloom.  
24th. Apple trees in full bloom.  
25th. Apple trees in full bloom.  
26th. Apple trees in full bloom.  
27th. Apple trees in full bloom.  
28th. Apple trees in full bloom.  
29th. Apple trees in full bloom.  
30th. Apple trees in full bloom.  
31st. Apple trees in full bloom.

June.

No observations.

July.

Cool.

1st. Upper cloud from NW.  
2nd. S.P.M., thunderstorm.  
3rd. Noon, thunderstorm.  
4th. Noon, thunderstorm.  
5th. Noon, thunderstorm.  
6th. Noon, thunderstorm.  
7th. Noon, thunderstorm.  
8th. Noon, thunderstorm.  
9th. Noon, thunderstorm.  
10th. Noon, thunderstorm.  
11th. Noon, thunderstorm.  
12th. Noon, thunderstorm.  
13th. Noon, thunderstorm.  
14th. Noon, thunderstorm.  
15th. Noon, thunderstorm.  
16th. Noon, thunderstorm.  
17th. Noon, thunderstorm.  
18th. Noon, thunderstorm.  
19th. Noon, thunderstorm.  
20th. Noon, thunderstorm.  
21st. Noon, thunderstorm.  
22nd. Noon, thunderstorm.  
23rd. Noon, thunderstorm.  
24th. Noon, thunderstorm.  
25th. Noon, thunderstorm.  
26th. Noon, thunderstorm.  
27th. Noon, thunderstorm.  
28th. Noon, thunderstorm.  
29th. Noon, thunderstorm.  
30th. Noon, thunderstorm.  
31st. Noon, thunderstorm.

Part of hay well made, part not: much yet to be made.

March.

Dry.

12th. A little snow.  
25th. Frith hedges begin to foliate.

April.

1st. Stormy morning with hail.  
2nd. Shower of snow.

The last entry in the diary is that of the 17th. April, 1813.

| Month | 1812  | 1813  |
|-------|-------|-------|
| Jan.  | 30.00 | 30.00 |
| Feb.  | 30.00 | 30.00 |
| Mar.  | 30.00 | 30.00 |
| Apr.  | 30.00 | 30.00 |
| May   | 30.00 | 30.00 |
| June  | 30.00 | 30.00 |
| July  | 30.00 | 30.00 |
| Aug.  | 30.00 | 30.00 |
| Sept. | 30.00 | 30.00 |
| Oct.  | 30.00 | 30.00 |
| Nov.  | 30.00 | 30.00 |
| Dec.  | 30.00 | 30.00 |

August.

Cool.

25th. 'Receives rain over'.  
Harvest back'd: only a small part of the wheat  
reaped: some hay not yet made.

September.

Dry and warm.

18th. 'An accident having happened to the old thermometer  
put a new one and fixed it at the height  
in which most probably the old one would have  
been'.

A late but most glorious harvest: the crop of wheat  
most productive.

October.

Wet.

14th. 'Seer. rain over'.  
15th. Stormy morning.

November.

Cold up till mid-month.

17th. Wind above SW (NW on surface).  
18th. Stormy evening.  
20th. Many coughs at Church.

December.

Cold and dry.

10th. Windy.  
11th. Many coughs at Church.  
12th. Snow. Rain which froze on ground.  
13th. Gentle snow.  
14th. Wind S above (surface NW).  
15th. Snow in night.  
16th. Slight shower of snow.

January.

Cold.

17th. Wind N above (SW surface).  
18th. Gentle snow.  
19th. Confined by illness. 18th. Snow.  
20th. A little snow.  
21st. 22° at 2 a.m.  
22nd. Many coughs at Church most Sunday part,  
particularly this day.

February.

Wet and stormy.

1st. Wind above N by E. (surface SW).  
2nd. Stormy morning.  
3rd. Stormy morning.  
4th. Stormy morning.  
5th. Stormy morning.  
6th. Stormy evening.  
7th. Stormy night with thunder and hail.  
8th. Tempestuous evening.  
9th. Tempestuous day.  
10th. Stormy evening.

# BAROMETRIC MEANS.

The following tables give the mean for each month of the morning barometric readings. These readings are not all taken at the same hour but no adjustment has been made to the recorded figures on this account. Where observations have been missed to such an extent that less than 20 days readings are available, no mean has been taken. The unit is the mercury inch.

Below are given the means of the monthly mean pressures for the period 1775 - 1813 and for comparison the mean monthly pressure for Stroud extracted from the Monthly Weather Report of the Meteorological Office.

| <u>Month.</u> | <u>Diary.</u> | <u>M. W. R.</u> |
|---------------|---------------|-----------------|
| January.      | 29.45         | 30.00           |
| February.     | 29.46         | 29.97           |
| March.        | 29.53         | 29.92           |
| April.        | 29.50         | 29.96           |
| May.          | 29.55         | 30.01           |
| June.         | 29.61         | 30.03           |
| July.         | 29.53         | 29.99           |
| August.       | 29.57         | 29.97           |
| September.    | 29.54         | 30.04           |
| October.      | 29.48         | 29.92           |
| November.     | 29.42         | 29.94           |
| December.     | 29.43         | 29.91           |

It will be noticed that the Diary means are about 0.5 inch lower than the recent Monthly Weather Report mean.

The site of the barometer was some 300 feet above mean sea level which would account for about 0.3 inch of the difference. The remainder is probably due to air in the Torricellian vacuum. This is a defect very often found in old mercury barometers.

Barometric Means for each month.

| Year. | January. | February. | March. | April. | May.  | June. |
|-------|----------|-----------|--------|--------|-------|-------|
| 1771  | 29.31    | 29.56     | 29.43  | 29.63  | 29.50 | 29.67 |
| 1772  | 29.18    | 29.10     | ?      | 29.49  | 29.66 | 29.71 |
| 1773  | 29.44    | 29.44     | ?      | 29.45  | 29.45 | 29.54 |
| 1775  | 29.54    | 29.50     | 29.54  | 29.78  | 29.92 | 29.70 |
| 1776  | 29.45    | 29.13     | 29.68  | 29.82  | 29.80 | 29.63 |
| 1777  | 29.63    | ?         | 29.52  | 29.73  | 29.56 | 29.72 |
| 1778  | 29.46    | 29.59     | 29.54  | 29.62  | 29.67 | 29.82 |
| 1779  | 30.07    | 30.01     | 29.95  | 29.73  | 29.66 | 29.73 |
| 1780  | 29.59    | 29.73     | 29.52  | 29.26  | 29.45 | 29.56 |
| 1781  | 29.31    | 29.39     | 29.78  | 29.45  | 29.60 | 29.43 |
| 1782  | 29.39    | 29.50     | 29.34  | 29.23  | 29.27 | 29.61 |
| 1783  | 29.10    | 29.36     | 29.31  | 29.73  | 29.52 | 29.44 |
| 1784  | 29.40    | 29.26     | 29.24  | 29.31  | 29.64 | 29.46 |
| 1785  | 29.36    | 29.41     | 29.68  | 29.77  | 29.62 | 29.72 |
| 1786  | 29.20    | 29.54     | 29.30  | 29.45  | 29.48 | 29.52 |
| 1787  | 29.75    | 29.42     | 29.35  | 29.53  | 29.51 | 29.46 |
| 1788  | 29.59    | 29.19     | 29.26  | 29.66  | 29.61 | 29.55 |
| 1789  | 29.26    | 29.30     | 29.24  | 29.31  | 29.41 | 29.42 |
| 1790  | 29.60    | 29.76     | 29.81  | 29.43  | 29.46 | 29.62 |
| 1791  | 29.11    | 29.51     | 29.77  | 29.34  | 29.58 | 29.50 |
| 1792  | 29.24    | 29.54     | 29.32  | 29.47  | 29.52 | 29.53 |
| 1793  | 29.56    | 29.39     | 29.40  | 29.46  | 29.64 | 29.53 |
| 1794  | 29.61    | 29.41     | 29.55  | 29.47  | 29.58 | 29.65 |
| 1795  | 29.60    | 29.23     | 29.40  | 29.37  | 29.76 | 29.45 |
| 1796  | 29.30    | 29.36     | 29.62  | 29.62  | 29.31 | 29.54 |
| 1797  | 29.64    | 29.83     | 29.56  | 29.36  | 29.44 | 29.47 |
| 1798  | 29.49    | 29.65     | 29.55  | 29.53  | 29.56 | 29.71 |
| 1799  | 29.61    | 29.33     | 29.44  | 29.20  | 29.42 | 29.65 |
| 1800  | 29.11    | 29.45     | 29.47  | 29.26  | 29.45 | 29.66 |
| 1801  | ?        | 29.38     | 29.48  | 29.66  | 29.45 | 29.68 |
| 1802  | 29.61    | 29.41     | 29.73  | 29.68  | 29.66 | 29.45 |
| 1803  | 29.29    | 29.52     | 29.68  | 29.48  | 29.57 | 29.65 |
| 1804  | 29.17    | 29.72     | 29.25  | 29.35  | 29.55 | 29.74 |
| 1805  | 29.23    | 29.46     | 29.59  | 29.46  | 29.50 | 29.65 |
| 1806  | 29.17    | 29.44     | 29.39  | 29.64  | 29.53 | 29.78 |
| 1807  | 29.69    | 29.43     | 29.65  | 29.53  | 29.45 | 29.64 |
| 1808  | 29.46    | 29.75     | 29.75  | 29.48  | 29.55 | 29.63 |
| 1809  | 29.15    | 29.40     | 29.70  | 29.45  | 29.54 | 29.54 |
| 1810  | 29.75    | 29.50     | 29.31  | 29.34  | 29.52 | 29.71 |
| 1811  | 29.55    | 29.14     | 29.68  | 29.59  | ?     | ?     |
| 1812  | 29.51    | 29.28     | 29.39  | 29.52  | 29.52 | 29.59 |
| 1813  | 29.68    | 29.42     | 29.88  | ?      | -     | -     |

BAROMETRIC MEANS

The following tables give the mean for each month of the barometric readings. These readings are not all taken at the same hour but no adjustment has been made to the recorded values on this account. Where observations have been missed to an extent that less than 30 days readings are available, no mean has been taken. The unit is the mercury inch.

Below are given the means of the monthly mean pressures for the years 1775 - 1813 and for comparison the mean monthly pressures for the years extracted from the Monthly Weather Report of the Meteorological Office.

| Year. | January. | February. | March. | April. | May.  | June. | July. | August. | September. | October. | November. | December. |
|-------|----------|-----------|--------|--------|-------|-------|-------|---------|------------|----------|-----------|-----------|
| 1775  | 29.31    | 29.56     | 29.43  | 29.63  | 29.50 | 29.67 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1776  | 29.45    | 29.13     | 29.68  | 29.82  | 29.80 | 29.63 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1777  | 29.63    | ?         | 29.52  | 29.73  | 29.56 | 29.72 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1778  | 29.46    | 29.59     | 29.54  | 29.62  | 29.67 | 29.82 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1779  | 30.07    | 30.01     | 29.95  | 29.73  | 29.66 | 29.73 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1780  | 29.59    | 29.73     | 29.52  | 29.26  | 29.45 | 29.56 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1781  | 29.31    | 29.39     | 29.78  | 29.45  | 29.60 | 29.43 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1782  | 29.39    | 29.50     | 29.34  | 29.23  | 29.27 | 29.61 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1783  | 29.10    | 29.36     | 29.31  | 29.73  | 29.52 | 29.44 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1784  | 29.40    | 29.26     | 29.24  | 29.31  | 29.64 | 29.46 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1785  | 29.36    | 29.41     | 29.68  | 29.77  | 29.62 | 29.72 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1786  | 29.20    | 29.54     | 29.30  | 29.45  | 29.48 | 29.52 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1787  | 29.75    | 29.42     | 29.35  | 29.53  | 29.51 | 29.46 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1788  | 29.59    | 29.19     | 29.26  | 29.66  | 29.61 | 29.55 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1789  | 29.26    | 29.30     | 29.24  | 29.31  | 29.41 | 29.42 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1790  | 29.60    | 29.76     | 29.81  | 29.43  | 29.46 | 29.62 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1791  | 29.11    | 29.51     | 29.77  | 29.34  | 29.58 | 29.50 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1792  | 29.24    | 29.54     | 29.32  | 29.47  | 29.52 | 29.53 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1793  | 29.56    | 29.39     | 29.40  | 29.46  | 29.64 | 29.53 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1794  | 29.61    | 29.41     | 29.55  | 29.47  | 29.58 | 29.65 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1795  | 29.60    | 29.23     | 29.40  | 29.37  | 29.76 | 29.45 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1796  | 29.30    | 29.36     | 29.62  | 29.62  | 29.31 | 29.54 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1797  | 29.64    | 29.83     | 29.56  | 29.36  | 29.44 | 29.47 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1798  | 29.49    | 29.65     | 29.55  | 29.53  | 29.56 | 29.71 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1799  | 29.61    | 29.33     | 29.44  | 29.20  | 29.42 | 29.65 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1800  | 29.11    | 29.45     | 29.47  | 29.26  | 29.45 | 29.66 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1801  | ?        | 29.38     | 29.48  | 29.66  | 29.45 | 29.68 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1802  | 29.61    | 29.41     | 29.73  | 29.68  | 29.66 | 29.45 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1803  | 29.29    | 29.52     | 29.68  | 29.48  | 29.57 | 29.65 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1804  | 29.17    | 29.72     | 29.25  | 29.35  | 29.55 | 29.74 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1805  | 29.23    | 29.46     | 29.59  | 29.46  | 29.50 | 29.65 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1806  | 29.17    | 29.44     | 29.39  | 29.64  | 29.53 | 29.78 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1807  | 29.69    | 29.43     | 29.65  | 29.53  | 29.45 | 29.64 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1808  | 29.46    | 29.75     | 29.75  | 29.48  | 29.55 | 29.63 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1809  | 29.15    | 29.40     | 29.70  | 29.45  | 29.54 | 29.54 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1810  | 29.75    | 29.50     | 29.31  | 29.34  | 29.52 | 29.71 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1811  | 29.55    | 29.14     | 29.68  | 29.59  | ?     | ?     | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1812  | 29.51    | 29.28     | 29.39  | 29.52  | 29.52 | 29.59 | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |
| 1813  | 29.68    | 29.42     | 29.88  | ?      | -     | -     | 29.31 | 29.39   | 29.50      | 29.31    | 29.10     | 29.40     |

It will be noticed that the Daily means are about 0.5 inch lower than the recent Monthly Weather Report mean.

The site of the barometer was some 200 feet above mean sea level which would account for about 0.5 inch of the difference. The barometer is probably due to air in the Torricellian vacuum. This is a defect very often found in old mercury barometers.

Barometric Means for each month.

| Year. | July. | August.          | September. | October. | November. | December. |
|-------|-------|------------------|------------|----------|-----------|-----------|
| 1771  | 29.66 | 29.52            | 29.62      | 29.49    | 29.77     | 29.19 ?   |
| 1772  | 29.64 | 29.53            | 29.42      | 29.51    | 29.28     | 29.58     |
| 1773  | 29.70 | 29.65            | 29.41      | 29.39 ?  | 29.25     | 29.26     |
| 1775  | 29.64 | 29.58            | 29.55      | 29.63    | 29.53     | 29.82     |
| 1776  | 29.64 | 29.62            | 29.63      | 29.81    | 29.65     | 29.69     |
| 1777  | ?     | 29.77            | 29.86      | 29.51    | 29.74     | 29.59     |
| 1778  | 29.72 | 29.96            | 29.79      | 29.42    | 29.44     | 29.60     |
| 1779  | 29.64 | 29.83            | 29.68      | 29.74    | 29.44     | 29.42     |
| 1780  | 29.59 | <del>29.59</del> | 29.37      | 29.28    | 29.47     | 29.87     |
| 1781  | 29.60 | 29.45            | 29.47      | ?        | 29.27     | 29.35     |
| 1782  | 29.52 | 29.26            | 29.49      | 29.49    | 29.53     | 29.64     |
| 1783  | 29.54 | 29.52            | 29.35      | 29.48    | 29.44     | 29.49     |
| 1784  | 29.51 | 29.63            | 29.55      | 29.65    | 29.43     | 29.33     |
| 1785  | 29.42 | 29.40            | 29.33      | 29.47    | 29.38     | 29.34     |
| 1786  | 29.60 | 29.47            | 29.40      | 29.53    | 29.32     | 29.22     |
| 1787  | 29.41 | 29.54            | 29.53      | 29.29    | 29.36     | 29.23     |
| 1788  | 29.44 | 29.46            | 29.39      | 29.71    | 29.67     | 29.53     |
| 1789  | 29.41 | 29.61            | ?          | 29.23    | 29.28     | 29.38     |
| 1790  | 29.42 | 29.53            | 29.59      | 29.46    | 29.39     | 29.47     |
| 1791  | 29.46 | ?                | 29.64      | 29.24    | 29.22     | 29.26     |
| 1792  | 29.44 | 29.48            | 29.36      | 29.34    | 29.57     | 29.45     |
| 1793  | 29.61 | 29.52            | 29.59      | 29.53    | 29.34     | 29.30     |
| 1794  | 29.58 | 29.52            | ?          | 29.39    | 29.30     | 29.52     |
| 1795  | 29.61 | 29.53            | 29.66      | 29.23    | 29.48     | 29.53     |
| 1796  | 29.39 | 29.66            | 29.55      | 29.57    | 29.42     | 29.42     |
| 1797  | 29.55 | 29.45            | 29.33      | 29.46    | 29.51     | 29.39     |
| 1798  | 29.29 | 29.69            | 29.45      | 29.48    | 29.20     | 29.48     |
| 1799  | 29.42 | 29.36            | 29.38      | 29.39    | 29.43     | 29.54     |
| 1800  | 29.80 | 29.69            | 29.37      | 29.50    | 29.29     | 29.27     |
| 1801  | 29.40 | 29.69            | 29.51      | 29.48    | 29.32     | 29.16     |
| 1802  | 29.48 | 29.65            | 29.69      | 29.44    | 29.28     | 29.37     |
| 1803  | 29.77 | 29.69            | 29.71      | 29.70    | 29.13     | 29.23     |
| 1804  | 29.43 | 29.56            | 29.76      | 29.33    | 29.47     | 29.45     |
| 1805  | 29.56 | 29.54            | 29.59      | 29.50    | 29.90     | 29.34     |
| 1806  | 29.57 | 29.47            | ?          | 29.52    | 29.38     | 29.21     |
| 1807  | 29.54 | 29.53            | 29.44      | 29.54    | 29.18     | 29.57     |
| 1808  | 29.59 | 29.49            | 29.46      | 29.40    | 29.49     | 29.45     |
| 1809  | 29.53 | 29.42            | 29.37      | 29.78    | 29.64     | 29.80     |
| 1810  | 29.41 | 29.51            | 29.74      | 29.57    | 29.10     | 29.32     |
| 1811  | ?     | 29.59            | 29.52      | 29.52    | 29.64     | 29.37     |
| 1812  | 29.59 | 29.63            | 29.70      | 29.18    | 29.47     | 29.59     |

Barometric Means for each month.

| Year. | July. | August.          | September. | October. | November. | December. |
|-------|-------|------------------|------------|----------|-----------|-----------|
| 1771  | 29.66 | 29.52            | 29.62      | 29.49    | 29.77     | 29.19 ?   |
| 1772  | 29.64 | 29.53            | 29.42      | 29.51    | 29.28     | 29.58     |
| 1773  | 29.70 | 29.65            | 29.41      | 29.39 ?  | 29.25     | 29.26     |
| 1775  | 29.64 | 29.58            | 29.55      | 29.63    | 29.53     | 29.82     |
| 1776  | 29.64 | 29.62            | 29.63      | 29.81    | 29.65     | 29.69     |
| 1777  | ?     | 29.77            | 29.86      | 29.51    | 29.74     | 29.59     |
| 1778  | 29.72 | 29.96            | 29.79      | 29.42    | 29.44     | 29.60     |
| 1779  | 29.64 | 29.83            | 29.68      | 29.74    | 29.44     | 29.42     |
| 1780  | 29.59 | <del>29.59</del> | 29.37      | 29.28    | 29.47     | 29.87     |
| 1781  | 29.60 | 29.45            | 29.47      | ?        | 29.27     | 29.35     |
| 1782  | 29.52 | 29.26            | 29.49      | 29.49    | 29.53     | 29.64     |
| 1783  | 29.54 | 29.52            | 29.35      | 29.48    | 29.44     | 29.49     |
| 1784  | 29.51 | 29.63            | 29.55      | 29.65    | 29.43     | 29.33     |
| 1785  | 29.42 | 29.40            | 29.33      | 29.47    | 29.38     | 29.34     |
| 1786  | 29.60 | 29.47            | 29.40      | 29.53    | 29.32     | 29.22     |
| 1787  | 29.41 | 29.54            | 29.53      | 29.29    | 29.36     | 29.23     |
| 1788  | 29.44 | 29.46            | 29.39      | 29.71    | 29.67     | 29.53     |
| 1789  | 29.41 | 29.61            | ?          | 29.23    | 29.28     | 29.38     |
| 1790  | 29.42 | 29.53            | 29.59      | 29.46    | 29.39     | 29.47     |
| 1791  | 29.46 | ?                | 29.64      | 29.24    | 29.22     | 29.26     |
| 1792  | 29.44 | 29.48            | 29.36      | 29.34    | 29.57     | 29.45     |
| 1793  | 29.61 | 29.52            | 29.59      | 29.53    | 29.34     | 29.30     |
| 1794  | 29.58 | 29.52            | ?          | 29.39    | 29.30     | 29.52     |
| 1795  | 29.61 | 29.53            | 29.66      | 29.23    | 29.48     | 29.53     |
| 1796  | 29.39 | 29.66            | 29.55      | 29.57    | 29.42     | 29.42     |
| 1797  | 29.55 | 29.45            | 29.33      | 29.46    | 29.51     | 29.39     |
| 1798  | 29.29 | 29.69            | 29.45      | 29.48    | 29.20     | 29.48     |
| 1799  | 29.42 | 29.36            | 29.38      | 29.39    | 29.43     | 29.54     |
| 1800  | 29.80 | 29.69            | 29.37      | 29.50    | 29.29     | 29.27     |
| 1801  | 29.40 | 29.69            | 29.51      | 29.48    | 29.32     | 29.16     |
| 1802  | 29.48 | 29.65            | 29.69      | 29.44    | 29.28     | 29.37     |
| 1803  | 29.77 | 29.69            | 29.71      | 29.70    | 29.13     | 29.23     |
| 1804  | 29.43 | 29.56            | 29.76      | 29.33    | 29.47     | 29.45     |
| 1805  | 29.56 | 29.54            | 29.59      | 29.50    | 29.90     | 29.34     |
| 1806  | 29.57 | 29.47            | ?          | 29.52    | 29.38     | 29.21     |
| 1807  | 29.54 | 29.53            | 29.44      | 29.54    | 29.18     | 29.57     |
| 1808  | 29.59 | 29.49            | 29.46      | 29.40    | 29.49     | 29.45     |
| 1809  | 29.53 | 29.42            | 29.37      | 29.78    | 29.64     | 29.80     |
| 1810  | 29.41 | 29.51            | 29.74      | 29.57    | 29.10     | 29.32     |
| 1811  | ?     | 29.59            | 29.52      | 29.52    | 29.64     | 29.37     |
| 1812  | 29.59 | 29.63            | 29.70      | 29.18    | 29.47     | 29.59     |

| Year. | July. | August. | September. | October. | November. | December. |
|-------|-------|---------|------------|----------|-----------|-----------|
| 1771  | 29.68 | 29.58   | 29.62      | 29.49    | 29.77     | 29.19     |
| 1772  | 29.64 | 29.53   | 29.42      | 29.61    | 29.89     | 29.58     |
| 1773  | 29.70 | 29.55   | 29.41      | 29.32    | 29.68     | 29.68     |
| 1774  | 29.84 | 29.52   | 29.55      | 29.63    | 29.55     | 29.92     |
| 1775  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1776  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1777  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1778  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1779  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1780  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1781  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1782  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1783  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1784  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1785  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1786  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1787  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1788  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1789  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1790  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1791  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1792  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1793  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1794  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1795  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1796  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1797  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1798  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1799  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1800  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1801  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1802  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1803  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1804  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1805  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1806  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1807  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1808  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1809  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1810  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1811  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |
| 1812  | 29.84 | 29.52   | 29.55      | 29.61    | 29.55     | 29.92     |

BAROMETRIC EXTREMES.

The following tables give the extreme maximum and the extreme minimum of the barometric readings for each month. Where a large number of observations have been missed in any month no extremes are entered. If there is a doubt as to whether an entry is really the extreme for the month a query is attached to the entry.

It will be seen that the absolute extremes for the period of the Diary are:-

|         |                               |
|---------|-------------------------------|
| Maximum | 30.51 ins. on 26th. Dec. 1778 |
| Minimum | 27.88 ins. on 20th. Jan. 1791 |

Barometric Extremes for each month.

| Year.        | January. |         | February. |         | March.  |          |
|--------------|----------|---------|-----------|---------|---------|----------|
|              | Maximum  | Minimum | Maximum   | Minimum | Maximum | Minimum. |
| 1771         | 29.8     | 28.8    | 30.0      | 28.9    | 29.90   | 28.96    |
| 1772         | 29.90 ?  | 28.52   | 29.72     | 28.55   | 29.63 ? | 28.53 ?  |
| 1773         | 30.04    | 28.43   | 30.29     | 28.15   | ?       | ?        |
| 1775         | 30.05    | 28.94   | 30.24     | 28.65   | 30.37 ? | 28.80    |
| 1776         | 29.89    | 28.94   | 29.69     | 28.59   | 30.19   | 28.71    |
| 1777         | 30.09    | 29.08   | ?         | ?       | 29.96   | 28.71    |
| 1778         | 30.15    | 28.38   | 30.14     | 28.99   | 30.19   | 28.91    |
| 1779         | 30.37    | 29.44   | 30.30     | 29.53   | 30.37   | 29.37    |
| 1780         | 30.16    | 28.33   | 30.34     | 28.92   | 30.04   | 29.13    |
| 1781         | 30.16    | 28.61   | 29.85     | 28.60   | 30.03   | 29.51    |
| 1782         | 30.06    | 28.60   | 30.04     | 28.52   | 29.85   | 28.62    |
| 1783         | 29.93    | 28.42   | 30.18     | 28.06   | 30.04   | 28.12    |
| 1784         | 30.02    | 28.62   | 30.04     | 28.62 ? | 29.75   | 28.52    |
| 1785         | 29.88    | 28.63   | 30.19     | 28.52   | 29.96   | 29.26    |
| 1786         | 29.93    | 28.29   | 29.95     | 29.00   | 29.82   | 28.72    |
| 1787         | 30.17    | 29.04   | 29.84     | 28.18   | 30.04   | 28.52    |
| 1788         | 30.26 ?  | 28.40   | 29.81     | 28.21   | 29.65   | 28.95 ?  |
| 1789         | 30.28    | 28.10   | 29.86     | 28.36   | 29.70   | 28.51    |
| 1790         | 29.99 ?  | 28.88   | 30.09 ?   | 29.45   | 30.16 ? | 29.36    |
| 1791         | 30.04    | 27.88   | 30.04 ?   | 28.85   | 30.23   | 28.63    |
| 1792         | 30.02    | 28.52   | 30.03     | 29.14   | 30.02   | 28.67 ?  |
| 1793         | 30.08    | 28.57   | 29.74     | 28.88 ? | 29.73   | 28.64    |
| 1794         | 30.09    | 28.27   | 29.84     | 29.01   | 29.98 ? | 29.06    |
| 1795         | 30.03    | 28.75   | 30.22     | 28.64   | 29.94   | 28.74    |
| 1796         | 29.84    | 28.55   | 29.93 ?   | 28.55 ? | 30.05   | 29.18    |
| 1797         | 30.08 ?  | 29.11   | 30.16     | 29.04   | 30.01   | 29.07 ?  |
| 1798         | 30.06    | 28.52   | 30.28 ?   | 28.86   | 29.89   | 28.94    |
| 1799         | 30.04    | 28.88   | 29.84 ?   | 28.56   | 29.80 ? | 29.12 ?  |
| 1800         | 29.93    | 28.58   | 29.85     | 28.92   | 29.84   | 28.92    |
| 1801         | ?        | ?       | 29.86     | 28.82   | 29.98   | 28.74    |
| 1802         | 30.03    | 29.04   | 29.85     | 28.86   | 30.07   | 29.04 ?  |
| 1803         | 29.86    | 28.64   | 30.06     | 29.01   | 30.00   | 29.34    |
| 1804         | 29.80    | 28.43   | 30.15 ?   | 28.69   | 29.57   | 28.85    |
| 1805         | 30.01    | 28.14   | 29.85     | 28.54   | 29.85   | 29.18    |
| 1806         | 29.70    | 28.45   | 29.92     | 29.03   | 30.04   | 28.80    |
| 1807         | 30.26 ?  | 28.62   | 30.10     | 28.65   | 30.23   | 28.98    |
| 1808         | 30.14    | 28.50   | 30.36     | 29.16   | 30.08 ? | 29.14    |
| 1809         | 29.73 ?  | 28.43   | 30.14     | 28.42   | 30.10   | 28.82    |
| 1810         | 30.04    | 29.44   | 30.08     | 28.76   | 29.75   | 28.57    |
| 1811         | 30.17    | 28.75 ? | 29.85     | 28.56   | 30.08 ? | 28.84    |
| 1812         | 29.87    | 28.84   | 29.67     | 28.81   | 29.97   | 28.60    |
| 1813         | 30.12 ?  | 28.97   | 30.10     | 28.76   | ?       | ?        |
| Abs.<br>Ext. | 30.37    | 27.88   | 30.36     | 28.06   | 30.37   | 28.12    |

# Barometric Extremes for each Month.

# Barometric Extremes for each Month.

| March   |         | February |         | January |         | Year. |
|---------|---------|----------|---------|---------|---------|-------|
| Maximum | Minimum | Maximum  | Minimum | Maximum | Minimum |       |
| 30.32   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1771  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1772  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1773  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1774  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1775  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1776  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1777  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1778  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1779  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1780  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1781  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1782  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1783  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1784  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1785  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1786  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1787  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1788  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1789  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1790  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1791  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1792  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1793  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1794  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1795  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1796  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1797  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1798  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1799  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1800  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1801  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1802  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1803  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1804  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1805  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1806  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1807  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1808  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1809  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1810  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1811  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | 1812  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | Abs.  |
| 29.82   | 29.02   | 29.82    | 29.02   | 29.82   | 29.02   | Ext.  |

| Year. | April.  |         | May.    |         | June.   |          |
|-------|---------|---------|---------|---------|---------|----------|
|       | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum. |
| 1771  | 30.00   | 29.16   | 29.90   | 29.02   | 29.94   | 29.08    |
| 1772  | 29.95   | 28.93   | 30.08   | 29.04   | 30.02   | 29.18    |
| 1773  | 30.16 ? | 28.30   | 30.07 ? | 29.06   | 29.84   | 29.06    |
| 1774  | ?       | ?       |         |         |         |          |
| 1775  | 30.19 ? | 29.28   | 30.18 ? | 29.58   | 30.04 ? | 29.38    |
| 1776  | 30.19   | 29.13   | 30.26   | 28.98   | 30.07 ? | 29.29    |
| 1777  | 30.17   | 29.14   | 29.96   | 28.99   | 30.16   | 29.41    |
| 1778  | ?       | ?       | 30.04   | 29.22   | 30.14   | 29.41    |
| 1779  | 30.28   | 29.25   | 30.02   | 29.35   | 30.04   | 29.18    |
| 1780  | 29.82   | 28.51   | 29.81   | 28.80   | 29.88   | 29.29    |
| 1781  | 29.93   | 28.86   | 29.93   | 29.22   | 29.92   | 29.13    |
| 1782  | 29.71   | 28.11   | 29.66   | 28.61   | 30.07   | 29.04    |
| 1783  | 30.16   | 29.02   | 29.82   | 29.17   | 29.85   | 28.79    |
| 1784  | 29.73   | 28.54   | 29.93   | 29.15   | 29.87   | 29.00    |
| 1785  | 30.09   | 28.98   | 30.14   | 29.27   | 29.96   | 29.34    |
| 1786  | 29.95   | 29.05   | 29.93   | 28.81   | 29.86   | 29.27    |
| 1787  | 30.04   | 28.74   | 29.88   | 29.04   | 29.77   | 29.06    |
| 1788  | 30.03   | 29.26   | 29.83   | 29.24   | 29.90   | 29.12    |
| 1789  | 29.73   | 28.66   | 29.81   | 29.14   | 29.82   | 29.02    |
| 1790  | 29.84   | 29.04   | 29.74   | 29.04   | 29.86   | 29.12    |
| 1791  | 29.62 ? | 28.72   | 29.93 ? | 29.13 ? | 29.78   | 29.21    |
| 1792  | 29.83 ? | 28.94   | 29.93   | 28.78   | 29.86   | 29.05    |
| 1793  | 29.84 ? | 28.93   | 29.88   | 28.83   | 29.82   | 29.24 ?  |
| 1794  | 29.97   | 28.51   | 30.13   | 29.02   | 29.92   | 29.33 ?  |
| 1795  | 29.74   | 28.92 ? | 30.05   | 29.24   | 29.77   | 29.12    |
| 1796  | 29.88   | 28.73   | 29.74   | 28.56 ? | 29.92   | 29.16    |
| 1797  | 29.70   | 28.73   | 29.86 ? | 29.04 ? | 29.88   | 29.01    |
| 1798  | 29.87   | 28.82   | ?       | ?       | 30.03   | 29.33    |
| 1799  | 29.82   | 28.37   | 29.93 ? | 29.07   | 29.96   | 28.83    |
| 1800  | 29.54   | 28.94 ? | 29.83   | 28.34   | 29.93   | 29.38    |
| 1801  | 29.96   | 29.04   | 29.81   | 28.94   | 29.96   | 29.44    |
| 1802  | 29.94   | 29.23 ? | 29.96   | 29.18   | ?       | 29.17 ?  |
| 1803  | 30.04 ? | 28.83   | 29.95 ? | 28.94   | 30.05   | 29.28 ?  |
| 1804  | 29.85 ? | 28.96   | 29.94   | 29.27   | 30.04   | 29.32    |
| 1805  | 29.96   | 28.98   | 29.88 ? | 28.95   | 30.01   | 29.02    |
| 1806  | 30.06   | 29.15   | 30.04   | 29.04   | 30.12   | 29.34    |
| 1807  | 29.84   | 28.96   | 30.02   | 28.60   | 29.90 ? | 29.27    |
| 1808  | 29.90 ? | 28.85   | 29.88   | 29.17   | 29.90 ? | 29.30 ?  |
| 1809  | 29.97   | 28.70   | 29.96 ? | 29.08   | 30.10   | 28.81    |
| 1810  | 29.84 ? | 28.92   | 29.98 ? | 28.97   | 30.02 ? | 29.42    |
| 1811  | ?       | ?       | ?       | ?       | ?       | ?        |
| 1812  | 29.86 ? | 29.10   | 29.88   | 29.21 ? | ?       | ?        |
| Abs.  |         |         |         |         |         |          |
| Ext.  | 30.28   | 28.11   | 30.26   | 28.34   | 30.16   | 28.79    |

# Barometric Extremes for each Month.

| June    |         | July    |         | August  |         | Year. |
|---------|---------|---------|---------|---------|---------|-------|
| Minimum | Maximum | Minimum | Maximum | Minimum | Maximum |       |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1771  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1772  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1773  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1774  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1775  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1776  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1777  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1778  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1779  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1780  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1781  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1782  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1783  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1784  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1785  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1786  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1787  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1788  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1789  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1790  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1791  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1792  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1793  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1794  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1795  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1796  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1797  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1798  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1799  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1800  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1801  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1802  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1803  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1804  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1805  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1806  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1807  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1808  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1809  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1810  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1811  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | 1812  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | Abs.  |
| 29.92   | 30.02   | 29.92   | 30.02   | 29.92   | 30.02   | Ext.  |

# Barometric Extremes for each Month.

| Year. | July    |         | August. |         | September. |          |
|-------|---------|---------|---------|---------|------------|----------|
|       | Maximum | Minimum | Maximum | Minimum | Maximum    | Minimum. |
| 1771  | 30.00   | 29.19   | 29.79   | 29.07   | 30.01      | 29.29    |
| 1772  | 30.02   | 28.98   | 29.95   | 28.96   | 29.82      | 28.70    |
| 1773  | 30.04   | 29.38   | 29.93   | 29.15   | 29.82      | 28.85    |
| 1775  | 29.94   | 29.38   | 29.82   | 29.21   | 29.89      | 29.22    |
| 1776  | 30.06 ? | 29.22   | 30.03   | 29.22   | 30.16 ?    | 28.98    |
| 1777  | ?       | ?       | 30.18   | 29.35   | 30.09      | 29.44    |
| 1778  | 30.08   | 29.21   | 30.28   | 29.34   | 30.22      | 29.02    |
| 1779  | 30.18   | 29.09   | 30.06   | 29.54   | 29.96      | 29.18    |
| 1780  | 29.75   | 29.16   | 29.74   | 29.39   | 29.72      | 28.73    |
| 1781  | 29.95   | 29.19   | 29.88   | 29.08   | 29.83 ?    | 29.04 ?  |
| 1782  | 29.85   | 29.21   | 29.73   | 28.73   | 29.93      | 28.83    |
| 1783  | 29.93   | 29.21   | 29.84   | 29.11   | 29.84      | 28.82    |
| 1784  | 29.91   | 28.82   | 29.93   | 29.26   | 29.89      | 28.98    |
| 1785  | 29.84   | 28.96   | 29.73   | 29.07   | 29.91      | 28.59    |
| 1786  | 30.02   | 29.13   | 29.84   | 29.09   | 29.94      | 28.60    |
| 1787  | 29.94   | 28.93   | 29.94   | 28.93   | 30.03      | 28.82    |
| 1788  | 29.76 ? | 29.20   | 29.99   | 28.80   | 29.81      | 29.06    |
| 1789  | 29.63   | 29.14   | 29.90   | 29.29   | ?          | ?        |
| 1790  | 29.74   | 28.91   | 29.72   | 29.21   | 29.97      | 29.02    |
| 1791  | 29.83   | 29.08   | ?       | ?       | 29.88 ?    | 29.08    |
| 1792  | 29.73   | 29.12   | 29.83   | 28.95   | 29.88      | 28.74    |
| 1793  | 29.85   | 29.33   | 29.84   | 28.98   | 29.97      | 29.08    |
| 1794  | 29.94   | 29.04   | 29.84 ? | 29.06 ? | ?          | ?        |
| 1795  | ?       | ?       | 29.88   | 29.22   | 30.03      | 29.20 ?  |
| 1796  | 29.82   | 29.06 ? | 29.96   | 29.34   | 29.87      | 29.03    |
| 1797  | 29.83   | 29.12   | 29.78   | 29.12 ? | 29.73 ?    | 28.93    |
| 1798  | ?       | ?       | 29.95 ? | 29.34 ? | ?          | ?        |
| 1799  | 29.74   | 28.84   | 29.75   | 28.70   | 29.96 ?    | 28.63    |
| 1800  | 30.04 ? | 29.58   | 29.98   | 29.27   | 29.85      | 28.78    |
| 1801  | 29.81   | 29.06   | 29.95   | 29.25   | 29.93      | 29.05    |
| 1802  | 29.76   | 29.05   | 29.90 ? | 29.38   | 30.02 ?    | 29.17    |
| 1803  | 30.04   | 29.52   | 29.90   | 29.38   | 30.03      | 29.03    |
| 1804  | 29.82   | 29.04   | 29.92   | 29.08   | 30.07      | 29.45    |
| 1805  | 29.88 ? | 29.06   | 29.90 ? | 29.15   | 30.20      | 28.90    |
| 1806  | 29.84   | 29.18   | 29.82 ? | 28.90   | ?          | ?        |
| 1807  | 29.90 ? | 29.27 ? | 29.87   | 29.26   | 29.89 ?    | 29.00 ?  |
| 1808  | 29.88 ? | 29.27   | 29.84 ? | 29.20   | 29.94 ?    | 28.90    |
| 1809  | 29.86   | 29.16   | 29.68 ? | 29.05 ? | 29.80      | 28.97    |
| 1810  | 29.80 ? | 29.02   | 29.92 ? | 29.15 ? | 30.01 ?    | 29.43 ?  |
| 1811  | 29.80 ? | ?       | 29.96   | 29.15 ? | 29.94 ?    | 28.52    |
| 1812  | 30.05 ? | 29.14   | 29.83   | 29.40   | 29.94      | 29.30 ?  |
| Abs.  | 30.18   | 28.82   | 30.28   | 28.75   | 30.22      | 28.52    |
| Ext.  |         |         |         |         |            |          |

# Barometric Extremes for each Month.

# Barometric Extremes for each Month.

| Year.     | October. |         | November. |         | December. |          |
|-----------|----------|---------|-----------|---------|-----------|----------|
|           | Maximum  | Minimum | Maximum   | Minimum | Maximum   | Minimum. |
| 1771      | 30.18    | 28.61   | 30.27     | 29.08   | 29.90 ?   | 28.40    |
| 1772      | 29.94    | 28.85   | 29.93     | 28.53   | 30.06     | 28.84    |
| 1773      | 29.97 ?  | 28.72 ? | 30.12     | 27.92   | 29.96     | 28.74    |
| 1775      | 30.06 ?  | 28.81   | 30.16     | 28.82 ? | 30.30     | 28.39    |
| 1776      | 30.07    | 29.31   | 30.07 ?   | 28.84   | 30.21     | 29.08    |
| 1777      | 30.03    | 28.38   | 30.18 ?   | 28.97   | 30.29     | 28.73    |
| 1778      | 29.85    | 28.93   | 29.97     | 28.75   | 30.51     | 28.45    |
| 1779      | 30.17    | 29.09   | 30.20     | 28.62   | 30.06     | 28.63    |
| 1780      | 29.89    | 28.24   | 29.99 ?   | 28.59   | 30.10     | 29.35    |
| 1781      | 29.90    | 29.03 ? | 29.74     | 28.64   | 29.68     | 29.08    |
| 1782      | 29.93    | 28.84   | 30.18     | 28.70   | 30.14     | 29.07    |
| 1783      | 29.86    | 29.06   | 29.94     | 28.72   | 29.97     | 28.52    |
| 1784      | 29.92    | 29.14   | 29.87     | 28.77   | 29.84     | 28.36    |
| 1785      | 29.99    | 28.98   | 30.01     | 28.83   | 29.82 ?   | 28.84    |
| 1786      | 29.94    | 28.41   | 29.81     | 28.52   | 30.12     | 28.43    |
| 1787      | 29.72    | 28.82   | 29.94     | 28.75   | 29.97     | 28.86 *  |
| 1788      | 30.13    | 29.23   | 30.03     | 29.24   | 29.93     | 29.14    |
| 1789      | 29.86    | 28.62   | 30.03 ?   | 28.39 ? | 30.12     | 28.51    |
| 1790      | 29.92    | 29.26   | 29.93     | 28.62 ? | 29.94     | 28.57 ?  |
| 1791      | 30.02    | 28.39   | 29.74     | 28.47   | 29.93     | 28.73    |
| 1792      | 29.97    | 28.74   | 29.98     | 28.84   | 29.93     | 28.78    |
| 1793      | 30.02 ?  | 28.86   | 29.93 ?   | 28.74   | 29.94     | 28.31    |
| 1794      | 29.92    | 28.83   | 29.82     | 28.74   | 30.02     | 29.06    |
| 1795      | 29.74    | 28.72   | 30.16     | 28.60 ? | 29.98     | 29.01    |
| 1796      | 30.16    | 28.87   | 29.91 ?   | 28.84 ? | 30.08     | 28.86    |
| 1797      | 29.94    | 28.74   | 29.98     | 28.88   | 30.05 ?   | 28.71    |
| 1798      | 29.92 ?  | 29.08 ? | 29.87     | 28.28   | 30.13     | 28.89    |
| 1799      | 29.94    | 28.98   | 29.97 ?   | 28.42   | 30.06     | 28.94    |
| 1800      | 30.00 ?  | 28.68   | 29.95     | 28.10   | 29.77     | 28.52    |
| 1801      | 29.95    | 28.82   | 29.90     | 28.53   | 29.78     | 28.35    |
| 1802      | 30.04    | 28.90 ? | 29.83     | 28.60   | 29.94     | 28.81 ?  |
| 1803      | 30.07 ?  | 29.30 ? | 29.96     | 28.30   | 30.06     | 28.74    |
| 1804      | 29.75    | 28.94   | 29.90     | 28.80   | 30.03     | 28.70    |
| 1805      | 30.00    | 28.95   | 30.28     | 28.94   | 30.02     | 28.50    |
| 1806      | 29.95    | 28.40   | 29.88     | 28.68   | 29.87     | 28.46    |
| 1807      | 29.88    | 28.90 ? | 29.74     | 28.35   | 30.04     | 29.04    |
| 1808      | 29.97    | 28.83   | 29.94     | 28.42   | 29.98 ?   | 28.88    |
| 1809      | 29.96 ?  | 29.53   | 30.12     | 28.80   | 29.84     | 27.97    |
| 1810      | 30.00 ?  | 28.98 ? | 29.77     | 28.50   | 30.16 ?   | 28.64 ?  |
| 1811      | ?        | ?       | 30.05     | 28.97   | 29.87     | 28.73    |
| 1812      | 29.74    | 28.30   | 29.95     | 28.67   | 30.14 ?   | 28.65    |
| Abs. Ext. | 30.18    | 28.24   | 30.28     | 27.92   | 30.51     | 27.97    |

\* An entry of 28.08 in the diary is an obvious lapsus calami for 29.08

RAINFALL TOTALS.

In the following tables the monthly total of rain is given for each month of the record. A further table gives the total precipitation for each year. The unit is, of course, the inch.

Doubt sometimes arises in the diary as to the exact fall for some of the months. On a good many occasions the receiver overflowed, the recorded total being in the nature of an estimate. Sometimes the gauge was left for the best part of a month unattended leading to uncertainties in the total. There is also some doubt as to the manner in which snow was dealt with. Where there is dubiety as to the accuracy of a monthly total a query has been attached to the figure.

The following table gives the mean monthly rain for the period 1775 - 1813 during which the gauge was practically in the same position throughout. For comparison, the monthly means for Upfield, Stroud, are excerpted from the Book of Normals, Section V. The sites are not identical, but are probably near enough to constitute a good comparison.

| <u>Month.</u> | <u>Diary.</u> | <u>Book of Normals.</u> |
|---------------|---------------|-------------------------|
| January.      | 2.8 in.       | 2.37 in.                |
| February.     | 2.2           | 2.09                    |
| March.        | 2.0           | 2.19                    |
| April.        | 2.2           | 1.88                    |
| May.          | 2.5           | 1.99                    |
| June.         | 2.0           | 2.40                    |
| July.         | 3.0           | 2.65                    |
| August.       | 2.5           | 2.93                    |
| September.    | 2.7           | 2.04                    |
| October.      | 2.9           | 3.14                    |
| November.     | 3.3           | 2.74                    |
| December.     | 2.6           | 3.05                    |

A considerable dissimilarity is noticeable between the two sets of figures. It must be remembered, however, that no information exists at present as to the exposure of the gauge used by the diarist. More than likely the exposure was a bad one. Also the type of gauge was entirely different to any modern pattern.

A considerable dissimilarity is noticeable between the two sets of figures. It must be remembered, however, that no information exists at present as to the exposure of the gauge used by the district. Also the type of gauge was entirely different to any modern pattern. More than likely the exposure was a bad one.

| Month     | Back of Normal | Barry   |
|-----------|----------------|---------|
| January   | 2.37 in.       | 2.8 in. |
| February  | 2.09           | 2.8     |
| March     | 2.18           | 2.0     |
| April     | 1.88           | 2.2     |
| May       | 1.88           | 2.2     |
| June      | 2.40           | 2.2     |
| July      | 2.85           | 2.0     |
| August    | 2.92           | 2.2     |
| September | 2.04           | 2.7     |
| October   | 2.14           | 2.2     |
| November  | 2.72           | 2.2     |
| December  | 2.05           | 2.2     |

Monthly Rainfall Totals.

| Year. | January. | February. | March. | April. | May.  | June. | July. | August. | Septem. | Octob. | Novem. | Decem. |
|-------|----------|-----------|--------|--------|-------|-------|-------|---------|---------|--------|--------|--------|
| 1771  | 2.1      | 0.9       | 2.1    | 0.6    | 1.0 ? | 1.8   | 2.0   | 2.9     | 1.9 ?   | 5.8    | 1.7    | 3.7 ?  |
| 1772  | 2.7      | 3.4       | 3.3    | 2.9    | 2.1   | 2.0   | 2.8 ? | 2.7     | 5.7 ?   | 4.3 ?  | 7.8    | 1.7    |
| 1773  | 2.3      | 3.9       | 0.8    | 1.9    | 5.8   | 2.4   | 1.1   | 2.1     | 4.9     | 4.9    | 5.2    | 3.4    |
| 1774  | 4.9      |           |        |        |       |       |       |         |         |        |        |        |
| 1775  | 2.7      | 3.5       | 2.2    | 0.8    | 0.5   | 2.4   | 5.4   | 6.2     | 3.3     | 3.3    | 2.6    | 1.5    |
| 1776  | 2.2      | 4.8       | 2.2    | 0.7    | 2.0   | 2.1   | 2.1   | 4.6     | 2.9 ?   | 1.9    | 1.7    | 1.3    |
| 1777  | 1.7 ?    | 1.6 ?     | 2.5    | 3.4    | 3.5   | 2.8   | 3.8   | 2.4     | 0.8     | 5.0    | 2.1    | 1.2    |
| 1778  | 3.3      | 1.0       | 0.8    | 0.9 ?  | 3.0 ? | 3.0   | 3.8 ? | 0.1     | 2.1     | 3.4    | 5.1    | 3.8    |
| 1779  | 0.7      | 0.8       | 0.7    | 2.9 ?  | 2.6   | 2.7   | 3.0   | 1.9     | 2.4 ?   | 3.7    | 2.7    | 5.0    |
| 1780  | 1.1      | 1.1       | 2.1    | 3.0    | 1.8   | 2.1   | 1.9   | 1.3     | 4.6 ?   | 3.2    | 2.4 ?  | 0.1    |
| 1781  | 2.7      | 2.9 ?     | 0.1    | 2.7    | 1.4   | 3.1   | 1.8   | 1.5     | 3.7 ?   | 0.3 ?  | 4.2    | 3.4    |
| 1782  | 3.4      | 1.0       | 3.4    | 4.1    | 5.0   | 1.6   | 4.4 ? | 5.5     | 4.4 ?   | 1.7    | 1.8    | 0.9    |
| 1783  | 4.7      | 4.1       | 2.4    | 0.4    | 2.0   | 1.9   | 2.2   | 1.8     | 2.6     | 1.5    | 1.7    | 0.5    |
| 1784  | 0.8 ?    | 1.5       | 3.4    | 2.7    | 2.1 ? | 3.6   | 3.1   | 2.1 ?   | 0.9     | 0.3    | 3.2    | 1.7 ?  |
| 1785  | 1.6      | 2.0       | 0.1 ?  | 0.4    | 0.7   | 1.3   | 1.3   | 3.5 ?   | 4.3     | 3.3    | 1.8    | 3.2    |
| 1786  | 5.5 ?    | 1.1       | 1.5    | 1.4    | 2.4   | 1.7   | 0.8   | 2.5     | 3.5     | 4.1 ?  | 3.1    | 3.3    |
| 1787  | 0.6      | 2.9       | 4.1    | 1.0 ?  | 1.7   | 1.9   | 4.5   | 1.5     | 3.1     | 3.2    | 2.4 ?  | 2.7    |
| 1788  | 1.7      | 2.0       | 1.1    | 0.7    | 1.4   | 0.9 ? | 2.8   | 3.1     | 2.9     | 0.6    | 1.0    | 0.4    |
| 1789  | 5.1 ?    | 2.5       | 2.8    | 1.8    | 4.4   | 4.3   | 4.0   | 1.2 ?   | 2.6 ?   | 4.7 ?  | 1.9    | 2.8    |
| 1790  | 2.0      | 0.3       | 0.6"   | 1.9    | 2.8   | 1.3   | 2.7   | 1.7 ?   | 1.7     | 1.6    | 5.3    | 4.1 ?  |
| 1791  | 4.6      | 2.3       | 1.0    | 1.9 ?  | 0.8   | 0.7   | 3.9   | 1.5 ?   | 0.9     | 3.6    | 6.5    | 2.3    |
| 1792  | 3.1 ?    | 1.6       | 3.7 ?  | 2.9    | 1.8   | 2.1   | 3.7   | 4.8 ?   | 5.1     | 3.0    | 0.9    | 1.4    |
| 1793  | 2.9 ?    | 1.5       | 3.3    | 3.5    | 1.0   | 1.0   | 1.4   | 3.5     | 3.6     | 1.4    | 3.1    | 2.1    |
| 1794  | 1.2      | 1.6       | 2.9    | 2.8    | 1.6   | 0.4   | 1.5   | 2.4     | 2.4     | 3.5    | 4.1 ?  | 3.0    |

| Year. | January. | February. | March. | April. | May. | June. | July. | August. | Septem. | Octob. | Novem. | Decem. |
|-------|----------|-----------|--------|--------|------|-------|-------|---------|---------|--------|--------|--------|
| 1795  | 1.2      | 3.5       | 4.2    | 3.2    | 0.4  | 3.6 ? | 1.3   | 2.1     | 0.5     | 7.9    | 3.3    | 2.4    |
| 1796  | 5.1      | 2.3       | 0.6    | 0.7    | 3.7  | 1.1   | 4.1 ? | 1.1 ?   | 1.1     | 2.4    | 1.8    | 3.6    |
| 1797  | 2.4      | 0.5       | 1.3    | 2.0    | 4.3  | 5.4   | 2.2 ? | 3.5     | 7.1 ?   | 2.0    | 3.0    | 5.1 ?  |
| 1798  | 2.6 ?    | 1.3       | 1.1    | 3.1    | 1.2  | 0.8   | 6.1 ? | 1.0 ?   | 3.3     | 4.2    | 5.2 ?  | 1.7 ?  |
| 1799  | 2.0 ?    | 4.1       | 2.0    | 3.8    | 2.6  | 0.7   | 4.5 ? | 6.2     | 7.2     | 3.5    | 4.9    | 0.7    |
| 1800  | 5.3      | 0.8       | 2.1    | 4.1 ?  | 2.9  | 1.1   | 0.1   | 2.2     | 1.9     | 2.9    | 6.7 ?  | 4.0    |
| 1801  | 3.7 ?    | 2.0       | 4.6    | 0.6    | 3.9  | 1.7   | 3.5   | 1.7     | 2.4     | 3.4    | 4.4 ?  | 3.6    |
| 1802  | 1.6      | 3.6       | 0.7    | 0.8    | 2.6  | 2.4   | 4.3   | 0.6     | 0.9     | 4.3    | 2.6    | 2.9    |
| 1803  | 2.6      | 1.6       | 0.6    | 1.5    | 1.9  | 2.9   | 0.6   | 1.3     | 1.5 ?   | 0.7    | 4.3    | 6.3    |
| 1804  | 5.8      | 1.4       | 2.3    | 2.4    | 2.6  | 0.3   | 3.3 ? | 1.9     | 0.0     | 3.2    | 5.2    | 2.2    |
| 1805  | 2.7      | 1.7       | 0.8    | 3.1    | 2.4  | 1.7   | 1.9   | 2.8     | 2.1     | 2.0    | 1.0    | 2.2    |
| 1806  | 5.9      | 2.2       | 2.0    | 0.8    | 1.3  | 0.9   | 2.6   | 3.0 ?   | 1.2     | 1.1    | 3.0    | 4.7    |
| 1807  | 2.3 ?    | 1.5       | 0.4    | 0.4    | 4.9  | 2.0   | 3.5   | 1.6     | 2.6     | 1.9 ?  | 5.6 ?  | 2.4    |
| 1808  | 0.9      | 1.3       | 0.4    | 4.4 ?  | 3.1  | 1.4   | 3.8   | 1.2     | 2.4     | 4.2    | 2.8    | 1.8    |
| 1809  | 5.6 ?    | 4.0       | 1.7 ?  | 4.4    | 2.8  | 2.0   | 2.5 ? | 4.8     | 4.2     | 0.2    | 1.7    | 4.4    |
| 1810  | 1.2      | 2.1       | 2.8    | 3.8    | 3.6  | 1.9   | 4.8   | 2.9     | 1.2     | 3.1 ?  | 6.9 ?  | 5.4 ?  |
| 1811  | 2.6      | 3.5       | 2.9    | 3.0    | 5.8  | 2.8   | 3.6   | 2.5     | 3.0     | 4.8    | 3.5    | 1.8    |
| 1812  | 2.2      | 4.5 ?     | 4.7    | 2.3    | 3.9  | 4.2   | 2.6   | 2.0 ?   | 1.7     | 6.0 ?  | 3.3    | 0.6    |
| 1813  | 2.1      | 5.7       | 1.0    | ?      | ?    | ?     | ?     | ?       | ?       | ?      | ?      | ?      |

MONTHLY RAINFALL TOTALS.

| Year. | January. | February. | March. | April. | May. | June. | July. | August. | Septem. | Octob. | Novem. | Decem. |
|-------|----------|-----------|--------|--------|------|-------|-------|---------|---------|--------|--------|--------|
| 1795  | 1.2      | 3.5       | 4.2    | 3.2    | 0.4  | 3.6 ? | 1.3   | 2.1     | 0.5     | 7.9    | 3.3    | 2.4    |
| 1796  | 5.1      | 2.3       | 0.6    | 0.7    | 3.7  | 1.1   | 4.1 ? | 1.1 ?   | 1.1     | 2.4    | 1.8    | 3.6    |
| 1797  | 2.4      | 0.5       | 1.3    | 2.0    | 4.3  | 5.4   | 2.2 ? | 3.5     | 7.1 ?   | 2.0    | 3.0    | 5.1 ?  |
| 1798  | 2.6 ?    | 1.3       | 1.1    | 3.1    | 1.2  | 0.8   | 6.1 ? | 1.0 ?   | 3.3     | 4.2    | 5.2 ?  | 1.7 ?  |
| 1799  | 2.0 ?    | 4.1       | 2.0    | 3.8    | 2.6  | 0.7   | 4.5 ? | 6.2     | 7.2     | 3.5    | 4.9    | 0.7    |
| 1800  | 5.3      | 0.8       | 2.1    | 4.1 ?  | 2.9  | 1.1   | 0.1   | 2.2     | 1.9     | 2.9    | 6.7 ?  | 4.0    |
| 1801  | 3.7 ?    | 2.0       | 4.6    | 0.6    | 3.9  | 1.7   | 3.5   | 1.7     | 2.4     | 3.4    | 4.4 ?  | 3.6    |
| 1802  | 1.6      | 3.6       | 0.7    | 0.8    | 2.6  | 2.4   | 4.3   | 0.6     | 0.9     | 4.3    | 2.6    | 2.9    |
| 1803  | 2.6      | 1.6       | 0.6    | 1.5    | 1.9  | 2.9   | 0.6   | 1.3     | 1.5 ?   | 0.7    | 4.3    | 6.3    |
| 1804  | 5.8      | 1.4       | 2.3    | 2.4    | 2.6  | 0.3   | 3.3 ? | 1.9     | 0.0     | 3.2    | 5.2    | 2.2    |
| 1805  | 2.7      | 1.7       | 0.8    | 3.1    | 2.4  | 1.7   | 1.9   | 2.8     | 2.1     | 2.0    | 1.0    | 2.2    |
| 1806  | 5.9      | 2.2       | 2.0    | 0.8    | 1.3  | 0.9   | 2.6   | 3.0 ?   | 1.2     | 1.1    | 3.0    | 4.7    |
| 1807  | 2.3 ?    | 1.5       | 0.4    | 0.4    | 4.9  | 2.0   | 3.5   | 1.6     | 2.6     | 1.9 ?  | 5.6 ?  | 2.4    |
| 1808  | 0.9      | 1.3       | 0.4    | 4.4 ?  | 3.1  | 1.4   | 3.8   | 1.2     | 2.4     | 4.2    | 2.8    | 1.8    |
| 1809  | 5.6 ?    | 4.0       | 1.7 ?  | 4.4    | 2.8  | 2.0   | 2.5 ? | 4.8     | 4.2     | 0.2    | 1.7    | 4.4    |
| 1810  | 1.2      | 2.1       | 2.8    | 3.8    | 3.6  | 1.9   | 4.8   | 2.9     | 1.2     | 3.1 ?  | 6.9 ?  | 5.4 ?  |
| 1811  | 2.6      | 3.5       | 2.9    | 3.0    | 5.8  | 2.8   | 3.6   | 2.5     | 3.0     | 4.8    | 3.5    | 1.8    |
| 1812  | 2.2      | 4.5 ?     | 4.7    | 2.3    | 3.9  | 4.2   | 2.6   | 2.0 ?   | 1.7     | 6.0 ?  | 3.3    | 0.6    |
| 1813  | 2.1      | 5.7       | 1.0    | ?      | ?    | ?     | ?     | ?       | ?       | ?      | ?      | ?      |

The driest month of the period was September 1804 with 0.0 inches.

with 7.9 inches.

The wettest month was October 1795

with 0.0 inches.

The greatest number of the below are September, 1807 with 0.0 inches.

The wettest month are October, 1802

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|-------|------|------|------|------|------|-------|-------|------|-------|------|------|------|
| 1771  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1772  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1773  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1774  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1775  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1776  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1777  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1778  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1779  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1780  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1781  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1782  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1783  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1784  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1785  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1786  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1787  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1788  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1789  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1790  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1791  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1792  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1793  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1794  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1795  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1796  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1797  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1798  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1799  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1800  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1801  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1802  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1803  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1804  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1805  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1806  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1807  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1808  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1809  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1810  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1811  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |
| 1812  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |

# ANNUAL RAINFALL.

| Year. | Rainfall. |
|-------|-----------|
| 1771  | 26.5 in.  |
| 1772  | 41.4      |
| 1773  | 38.7      |
| 1774  | 34.4      |
| 1775  | 28.5      |
| 1776  | 30.8      |
| 1777  | 30.3      |
| 1778  | 29.1      |
| 1779  | 24.7      |
| 1780  | 27.8      |
| 1781  | 37.2      |
| 1782  | 25.8      |
| 1783  | 25.4      |
| 1784  | 23.5      |
| 1785  | 30.9      |
| 1786  | 29.6      |
| 1787  | 18.6      |
| 1788  | 38.1      |
| 1789  | 26.0      |
| 1790  | 30.0      |
| 1791  | 34.1      |
| 1792  | 28.3      |
| 1793  | 27.4      |
| 1794  | 33.6      |
| 1795  | 27.6      |
| 1796  | 38.8      |
| 1797  | 31.6      |
| 1798  | 42.2      |
| 1799  | 34.1      |
| 1800  | 35.5      |
| 1801  | 27.3      |
| 1802  | 25.8      |
| 1803  | 30.6      |
| 1804  | 24.4      |
| 1805  | 28.7      |
| 1806  | 29.1      |
| 1807  | 27.7      |
| 1808  | 38.3      |
| 1809  | 39.7      |
| 1810  | 39.8      |
| 1811  | 38.0      |
| 1812  |           |

The driest year of the period is 1788 with 18.6 ins. The wettest is 1799 with 42.2 ins. The mean annual total for the period 1775 - 1813 is 30.7 ins.

# ANNUAL RAINFALL

| Year. | Rainfall. |
|-------|-----------|
| 1771  | 26.5      |
| 1772  | 41.4      |
| 1773  | 26.7      |
| 1774  | 34.4      |
| 1775  | 28.5      |
| 1776  | 8.08      |
| 1777  | 20.8      |
| 1778  | 20.1      |
| 1779  | 7.42      |
| 1780  | 27.2      |
| 1781  | 27.2      |
| 1782  | 25.8      |
| 1783  | 24.2      |
| 1784  | 25.8      |
| 1785  | 20.8      |
| 1786  | 20.8      |
| 1787  | 20.8      |
| 1788  | 20.8      |
| 1789  | 20.8      |
| 1790  | 20.8      |
| 1791  | 20.8      |
| 1792  | 20.8      |
| 1793  | 20.8      |
| 1794  | 20.8      |
| 1795  | 20.8      |
| 1796  | 20.8      |
| 1797  | 20.8      |
| 1798  | 20.8      |
| 1799  | 20.8      |
| 1800  | 20.8      |
| 1801  | 20.8      |
| 1802  | 20.8      |
| 1803  | 20.8      |
| 1804  | 20.8      |
| 1805  | 20.8      |
| 1806  | 20.8      |
| 1807  | 20.8      |
| 1808  | 20.8      |
| 1809  | 20.8      |
| 1810  | 20.8      |
| 1811  | 20.8      |
| 1812  | 20.8      |

## Rainfall Days.

The ensuing table gives the number of days in each month on which rain fell. Only those days with a fall of more than 0.004 inches (that is, 0.005 ins. and above) have been included in the totals. In some months a good many days observations have been missed - in these cases the total for the month is represented by a query. In other cases where doubt arises as to the exact total of days for a month the figure has a query attached.

The monthly means over the period 1775 - 1813 are:-

| Month.     | Mean Rain Days. |
|------------|-----------------|
| January.   | 13.4            |
| February.  | 13.4            |
| March.     | 10.9            |
| April.     | 12.5            |
| May.       | 13.2            |
| June       | 11.5            |
| July       | 14.8            |
| August.    | 12.6            |
| September. | 12.2            |
| October    | 14.7            |
| November.  | 15.2            |
| December.  | 13.6            |
| Year.      | 158 days.       |

From the tables it will be noticed that September 1804 had the least number of rain days with zero days. March 1785 ran it close with one day. December 1781 appears to have the greatest number of rain days with a total of 27. The highest annual total was 204 in 1773 and the least was 119 in 1788.

The driest year of the period is 1788 with 119 ins. The mean annual total for the period 1775 - 1813 is 20.8 ins.

Rain Days.

| Year. | Jan. | Feb. | Mar. | Apl. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1771  | 9    | 11   | 8    | 6    | 13   | 9    | 14   | 15   | 17   | 23   | 17   | 20   | 162   |
| 1772  | 8    | 15   | 18   | 15   | 12   | 11   | 11   | 13   | 21   | 25   | 26   | 17   | 192   |
| 1773  | 20   | 15   | 4    | 14   | 19   | 18   | 12   | 10   | 20   | 24   | 26   | 22   | 204   |
| 1775  | 20   | 20   | 21   | 8    | 4    | 10   | 24   | 22   | 17   | 14   | 18   | 9    | 187   |
| 1776  | 5    | 26   | 12   | 9    | 12   | 18   | 21   | 20   | 14   | 11   | 14   | 10   | 172   |
| 1777  | 11   | ?    | 15   | 13   | 21   | 18   | 16   | 13   | 8    | 12   | 17   | 9    | 153?  |
| 1778  | 18   | 12   | 11   | 11?  | 16   | 15   | 16   | 3    | 10   | 16   | 24   | 16   | 168   |
| 1779  | 6    | 8    | 6    | 16   | 16   | 11   | 15   | 7    | 18   | 18   | 16   | 19   | 156   |
| 1780  | 7    | 11   | 15   | 21   | 15   | 13   | 11   | 10   | 18   | 19   | 15?  | 5    | 160   |
| 1781  | 14   | 17   | 3    | 14   | 9    | 17   | 10   | 12   | 11   | 4?   | 21   | 27   | 159   |
| 1782  | 18   | 10   | 16   | 19   | 20   | 10   | 18   | 22   | 17   | 19   | 15   | 8    | 192   |
| 1783  | 25   | 19   | 11   | 9    | 13   | 12   | 11   | 13   | 16   | 13   | 13   | 6    | 161   |
| 1784  | 6    | 8?   | 11   | 19   | 7    | 20   | 10   | 12   | 8    | 5    | 18   | 6    | 130   |
| 1785  | 13   | 6    | 1    | 5    | 11   | 11   | 14   | 16   | 17   | 16   | 16   | 13   | 139   |
| 1786  | 17   | 11   | 8    | 7    | 13   | 9    | 7    | 15   | 17   | 7    | 16   | 15   | 142   |
| 1787  | 8    | 14   | 17   | 11   | 10   | 12   | 20   | 14   | 11   | 24   | 12   | 21   | 174   |
| 1788  | 11   | 15   | 13   | 8    | 7    | 9    | 16?  | 14   | 16   | 2    | 5    | 3    | 119   |
| 1789  | 16   | 16   | 14   | 13   | 19   | 17   | 21   | 7    | ?    | 19   | 14?  | 15   | 171?  |
| 1790  | 12   | 4    | 5    | 12   | 18   | 12   | 15   | 12   | 10   | 12   | 14   | 16   | 142   |
| 1791  | 20   | 18   | 6    | 14   | 11   | 8    | 17   | ?    | 6    | 15   | 22   | 12   | 149?  |
| 1792  | 16   | 11   | 16   | 13   | 17   | 11   | 16   | 15   | 23   | 20   | 8    | 13   | 179   |
| 1793  | 15   | 17   | 17   | 11   | 8    | 16   | 8    | 13   | 15   | 10   | 10   | 13   | 153   |
| 1794  | 3    | 15   | 13   | 13   | 14   | 4    | 9    | 12?  | ?    | 18   | 20   | 14   | 135?  |
| 1795  | 2    | 11   | 14   | 18   | 5    | 12   | 10?  | 13   | 5    | 25   | 17   | 17   | 149   |
| 1796  | 21   | 11   | 8    | 4    | 17   | 9    | 21   | 5    | 9    | 14   | 12   | 12?  | 143   |
| 1797  | 15   | 3    | 8    | 13   | 18?  | 21   | 15   | 24   | 19   | 18   | 14   | 20   | 188   |
| 1798  | 15   | 5?   | 9    | 12   | 14?  | 6?   | 22   | 9?   | 15?  | 16   | 18   | 11   | 152?  |
| 1799  | 13   | 8?   | 9?   | 20   | 17   | 8    | 20   | 17?  | 14   | 17   | 14   | 7    | 164   |
| 1800  | 16   | 6    | 9    | 20   | 13?  | 10   | 4    | 11   | 16   | 15   | 18   | 16   | 154   |
| 1801  | 14?  | 13   | 16   | 8    | 9    | 7    | 15   | 5    | 18   | 22   | 18   | 14   | 159   |
| 1802  | 8    | 16   | 10   | 13   | 9    | 14?  | 20   | 10   | 7    | 17   | 14   | 11   | 149   |
| 1803  | 16   | 13   | 8    | 18   | 11   | 16   | 8    | 10   | 5    | 10   | 14   | 21   | 150   |
| 1804  | 23   | 12   | 14   | 15   | 17   | 5    | 15   | 10   | 0    | 20   | 17   | 11   | 159   |
| 1805  | 15   | 16   | 7    | 13   | 8    | 10   | 12   | 12   | 9    | 12   | 7    | 18   | 139   |
| 1806  | 25   | 15   | 13   | 9    | 9    | 4?   | 20   | 12   | 8?   | 7    | 18   | 26   | 166   |
| 1807  | 10   | 15   | 10   | 8    | 18   | 9?   | 13   | 13   | 11   | 10   | 17   | 7    | 141   |
| 1808  | 10   | 11   | 4    | 13   | 14   | 8    | 15   | 8    | 16   | 22   | 15   | 10   | 146   |
| 1809  | 17   | 19   | 8    | ?    | 14   | 13   | 11   | 19?  | ?    | 8    | 9    | 24   | 142?  |
| 1810  | 6    | 15   | 15   | 13   | 11   | 6    | 19   | 14   | 7    | 11   | 21   | 19   | 157   |
| 1811  | 10   | 20   | 6    | 11?  | 20?  | 10?  | 13   | 13   | 9    | 20?  | 14   | 15   | 161   |
| 1812  | 11   | 20   | 17   | 10   | 16   | 15?  | 15   | 10   | 5    | 22   | 14   | 6    | 161   |
| 1813  | 13   | 22   | 8    |      |      |      |      |      |      |      |      |      |       |

Rainfall Days.

Month.

Mean Rain Days.

Year.

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Days with Fog and Mist.

No detailed tables have been extracted giving the number of occasions on which fog and mist were recorded. The diarist uses the three terms foggy, misty, and hazy to indicate varying states of visibility. By far the most general term used is foggy. 'Misty' is used very little in the first parts of the diary but comes into commoner use later on. 'Hazy' is more generally employed at first. Also the diarist does not appear to be consistent in the logging of fog and mist. In the first five years or so of the diary the number of days of fog and mist per annum averages about 80. In the last five years the average is about 40. It did not appear to be of any value to extract annual totals of this element.

Days with Snow, Hail, and Thunder and/or Lightning.

A day is counted as a day of snow or hail <sup>if</sup> this phenomenon occurred at any time during that day irrespective of the amount of the precipitation. The winter with the most snow days was 1783 - 4 with a total of 31 days. The winter of 1778 - 9 had least with only 4 days. The earliest appearance of snow in the winter season was on the 25th. October 1784, and the latest date in the season was on the 16th. May, 1802.

In the table of snow days the figure given in the totals column is not for the calendar year but is the total for the period 1st. July to 30th. June of the following year. This gives a better indication of the number of days during which snow fell in the winter season.

In the yearly totals for hail days the calendar year is taken as usual.

A day is counted as a day of thunderstorm if thunder was heard or lightning seen upon the day.

Annual means of these elements.

| <u>Month.</u> | <u>Snow days.</u> | <u>Hail days.</u> | <u>Thunderstorm days.</u> |
|---------------|-------------------|-------------------|---------------------------|
| January.      | 3.6               | 0.3               | 0.15                      |
| February.     | 2.7               | 0.6               | 0.15                      |
| March.        | 3.0               | 1.3               | 0.15                      |
| April.        | 1.7               | 1.7               | 0.24                      |
| May.          | 0.1               | 0.9               | 1.00                      |
| June.         | 0.0               | 0.3               | 1.16                      |
| July.         | 0.0               | 0.15              | 1.79                      |
| August.       | 0.0               | 0.05              | 1.34                      |
| September.    | 0.0               | 0.15              | 0.66                      |
| October.      | 0.1               | 0.35              | 0.13                      |
| November.     | 0.9               | 0.2               | 0.11                      |
| December.     | 2.5               | 0.2               | 0.18                      |
| Year.         | 14.6              | 6.2               | 7.06                      |

SNOW DAYS.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Year. |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1771  | 8    | 4    | 8    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     |
| 1772  | 10   | 7    | 4    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     |
| 1773  | 1    | 7    | 0    | 1    | 2    | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 0     |
| 1775  | 3    | 0    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 17    |
| 1776  | 10   | 4    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 5    | 18    |
| 1777  | 7    | 3    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 11    |
| 1778  | 3    | 4    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 4     |
| 1779  | 2    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 4    | 3    | 19    |
| 1780  | 2    | 6    | 0    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 5    | 3    | 12    |
| 1781  | 2    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 17    |
| 1782  | 2    | 5    | 6    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 4    | 0    | 16    |
| 1783  | 5    | 1    | 5    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 1    | 4    | 31    |
| 1784  | 4    | 6?   | 10   | 6    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 7    | 29    |
| 1785  | 6    | 8    | 6    | 1    | 0    | 0    | 0    | 0    | 0    | 2    | 1    | 2    | 16    |
| 1786  | 4    | 3    | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 3    | 8     |
| 1787  | 1    | 0    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 5     |
| 1788  | 0    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 8    | 29    |
| 1789  | 6    | 1    | 13   | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 5     |
| 1790  | 0    | 0    | 0    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 7     |
| 1791  | 1    | 3    | 0    | 0    | 0    | 0*   | 0    | 0    | 0    | 0    | 0    | 6    | 14    |
| 1792  | 2    | 3    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 10    |
| 1793  | 1    | 1    | 4    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 5     |
| 1794  | 4    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 25    |
| 1795  | 9    | 9    | 4    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 9     |
| 1796  | 0    | 4    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 9     |
| 1797  | 3    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 11    |
| 1798  | 2    | 3    | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 2    | 21    |
| 1799  | 2    | 5    | 7    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 11    |
| 1800  | 3    | 2    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 6    | 17    |
| 1801  | 2    | 4    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 19    |
| 1802  | 6    | 3    | 2    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 13    |
| 1803  | 6    | 4    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 13    |
| 1804  | 1    | 3    | 3    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 5    | 18    |
| 1805  | 7    | 1    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 4    | 25    |
| 1806  | 8    | 3    | 5    | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 13    |
| 1807  | 4    | 5    | 1    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 7    | 1    | 22    |
| 1808  | 4    | 1    | 3    | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 8    | 24    |
| 1809  | 7    | 1    | 2    | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 11    |
| 1810  | 2    | 4    | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 8     |
| 1811  | 4    | 0    | 1    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 11    |
| 1812  | 4    | 1    | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 4    | ?     |
| 1813  | 3    | 0    | 1    |      |      |      |      |      |      |      |      |      |       |

\* There is a note on the 11th. June 1791 - 'Snow said to be <sup>fall upon</sup> on hills'. This has not been taken into account in this table as the observation of snow was not a personal one nor was it observed at the site of his observatory.

The greatest number of snow days in any month was 13 in March 1789.

| Month.     | Snow days. | Hail days. | Thunderstorm days. |
|------------|------------|------------|--------------------|
| January.   | 3.3        | 0.0        | 0.13               |
| February.  | 2.7        | 0.0        | 0.13               |
| March.     | 3.0        | 1.7        | 0.13               |
| April.     | 1.7        | 1.7        | 0.24               |
| May.       | 1.0        | 0.0        | 1.00               |
| June.      | 0.0        | 0.0        | 1.13               |
| July.      | 0.0        | 0.13       | 1.73               |
| August.    | 0.0        | 0.0        | 1.24               |
| September. | 0.0        | 0.13       | 0.00               |
| October.   | 1.0        | 0.33       | 0.13               |
| November.  | 0.0        | 0.0        | 0.11               |
| December.  | 3.3        | 0.0        | 0.13               |
| Year.      | 14.3       | 2.3        | 7.03               |

Annual means of these elements.

of lightning seen upon the day.

as usual.

In the yearly totals for hail days the calendar year is taken

indication of the number of days during which snow fell in the winter

column is not for the calendar year but is the total for the period

the earliest appearance of snow in the winter season was

precipitation. The winter with the most snow days was 1783 - 4 with

Days with snow, hail, and thunder and lightning.

Year. Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sep. Oct. Nov. Dec. Year.

|      |   |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|---|----|
| 1771 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 6  |
| 1772 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 6  |
| 1773 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 6  |
| 1775 | 0 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 10 |
| 1776 | 0 | 1 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 7  |
| 1777 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1778 | 1 | 2 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 7  |
| 1779 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 8  |
| 1780 | 0 | 0 | 4 | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 15 |
| 1781 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6  |
| 1782 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 7  |
| 1783 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6  |
| 1784 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 5  |
| 1785 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 5  |
| 1786 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3  |
| 1787 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 10 |
| 1788 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3  |
| 1789 | 0 | 1 | 3 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 9  |
| 1790 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6  |
| 1791 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 5  |
| 1792 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 5  |
| 1793 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 9  |
| 1794 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5  |
| 1795 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3  |
| 1796 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5  |
| 1797 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1798 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 6  |
| 1799 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2  |
| 1801 | 1 | 1 | 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 9  |
| 1802 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 9  |
| 1803 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7  |
| 1804 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5  |
| 1805 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1806 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 6  |
| 1807 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 6  |
| 1808 | 1 | 1 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8  |
| 1809 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 9  |
| 1810 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4  |
| 1811 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3  |
| 1812 | 0 | 1 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7  |
| 1813 | 0 | 1 | 0 |   |   |   |   |   |   |   |   |    |

The greatest number of snow days in any month was 12 in March 1799.  
There was not a personal one nor was it observed at the site of his  
has not been taken into account in this table as the observation of  
There is a note on the left. June 1791 - 'Snow said to be on hills.'

HAIL DAYS.

Year. Jan. Feb. Mar. Apr. May. Jun. Jul. Aug. Sep. Oct. Nov. Dec. Year.

|      |   |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|---|----|
| 1771 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 6  |
| 1772 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 6  |
| 1773 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 6  |
| 1775 | 0 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 10 |
| 1776 | 0 | 1 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 7  |
| 1777 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1778 | 1 | 2 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 7  |
| 1779 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 8  |
| 1780 | 0 | 0 | 4 | 9 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 15 |
| 1781 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6  |
| 1782 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 7  |
| 1783 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6  |
| 1784 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 5  |
| 1785 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 5  |
| 1786 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3  |
| 1787 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 10 |
| 1788 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3  |
| 1789 | 0 | 1 | 3 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 9  |
| 1790 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6  |
| 1791 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 5  |
| 1792 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 5  |
| 1793 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 9  |
| 1794 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5  |
| 1795 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3  |
| 1796 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5  |
| 1797 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1798 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 6  |
| 1799 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2  |
| 1801 | 1 | 1 | 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 9  |
| 1802 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 9  |
| 1803 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7  |
| 1804 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5  |
| 1805 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4  |
| 1806 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 6  |
| 1807 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 6  |
| 1808 | 1 | 1 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8  |
| 1809 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 9  |
| 1810 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4  |
| 1811 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3  |
| 1812 | 0 | 1 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7  |
| 1813 | 0 | 1 | 0 |   |   |   |   |   |   |   |   |    |

1780 is the year with the greatest number of hail days with 15.  
The smallest yearly total is 2 in 1800. April 1780 has the largest  
total of days with 9.

DAYS WITH THUNDER AND/OR LIGHTNING.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul.           | Aug.           | Sep. | Oct. | Nov. | Dec.           | Year. |
|-------|------|------|------|------|------|------|----------------|----------------|------|------|------|----------------|-------|
| 1771  | 1    | 0    | 0    | 0    | 2    | 1    | 0              | 0              | 0    | 0    | 0    | 0              | 4     |
| 1772  | 0    | 0    | 0    | 0    | 0    | 1    | 2              | 0              | 2    | 0    | 0    | 0              | 5     |
| 1773  | 0    | 0    | 0    | 0    | 0    | 3    | 1              | 1              | 4    | 1    | 0    | 0              | 10    |
| 1775  | 0    | 0    | 0    | 0    | 0    | 5    | 3              | 2              | 4    | 1    | 0    | 1              | 16    |
| 1776  | 0    | 1    | 0    | 0    | 0    | 0    | 1              | 1              | 0    | 0    | 0    | 0              | 3     |
| 1777  | 0    | 0    | 0    | 0    | 0    | 0    | 1              | 3              | 0    | 0    | 0    | 0              | 4     |
| 1778  | 1    | 0    | 0    | 0    | 0    | 4    | 3              | 0              | 0    | 0    | 0    | 0              | 8     |
| 1779  | 0    | 0    | 0    | 2    | 0    | 2    | 3              | 1              | 3    | 0    | 0    | 0              | 11    |
| 1780  | 0    | 0    | 1    | 0    | 0    | 0    | 1              | 2              | 1    | 1    | 0    | 0              | 6     |
| 1781  | 0    | 1    | 0    | 0    | 1    | 4    | 0              | 2              | 1    | 0    | 1    | 0              | 10    |
| 1782  | 0    | 0    | 0    | 0    | 1    | 1    | 1              | 1              | 2    | 0    | 0    | 0              | 6     |
| 1783  | 1    | 0    | 0    | 0    | 0    | 2    | 4              | 3              | 2    | 0    | 0    | 0              | 12    |
| 1784  | 0    | 0    | 0    | 0    | 1    | 1    | 3              | 0              | 0    | 0    | 0    | 0              | 5     |
| 1785  | 1    | 0    | 0    | 0    | 0    | 1    | 3              | 0              | 0    | 0    | 0    | 0              | 5     |
| 1786  | 0    | 1    | 0    | 1    | 2    | 4    | 0              | 2              | 0    | 0    | 0    | 0              | 10    |
| 1787  | 0    | 0    | 0    | 0    | 4    | 0    | 3              | 1              | 2    | 0    | 0    | 0              | 10    |
| 1788  | 0    | 0    | 1    | 0    | 1    | 1    | 0              | 0              | 0    | 0    | 0    | 0              | 3     |
| 1789  | 0    | 0    | 0    | 1    | 1    | 5    | 3              | 1              | 0    | 0    | 0    | 0              | 11    |
| 1790  | 0    | 0    | 0    | 0    | 2    | 0    | 0              | 0              | 0    | 0    | 0    | 1              | 3     |
| 1791  | 1    | 0    | 0    | 0    | 0    | 1    | 1              | 2              | 0    | 0    | 1    | 1              | 7     |
| 1792  | 0    | 0    | 0    | 0    | 1    | 0    | 1              | 3              | 0    | 0    | 0    | 1              | 6     |
| 1793  | 0    | 0    | 0    | 0    | 1    | 0    | 2              | 2              | 0    | 1    | 0    | 0              | 6     |
| 1794  | 0    | 0    | 1    | 0    | 1    | 0    | 0              | 0              | 0    | 0    | 1    | 0              | 3     |
| 1795  | 0    | 0    | 0    | 1    | 0    | 2    | 1              | 1              | 0    | 0    | 0    | 0              | 5     |
| 1796  | 2    | 0    | 0    | 0    | 0    | 0    | 1              | 0              | 0    | 0    | 0    | 0              | 3     |
| 1797  | 0    | 0    | 0    | 0    | 3    | 2    | 1              | 4              | 0    | 0    | 0    | 0              | 10    |
| 1798  | 0    | 0    | 0    | 1    | 1    | 0    | 2              | 0              | 2    | 0    | 0    | 0              | 6     |
| 1799  | 0    | 1    | 0    | 1    | 1    | 0    | 3              | 0              | 0    | 0    | 0    | 0              | 6     |
| 1800  | 0    | 0    | 0    | 0    | 1    | 0    | 0              | 2              | 1    | 1    | 0    | 0              | 5     |
| 1801  | 0    | 0    | 0    | 0    | 2    | 1    | 3              | 1              | 0    | 0    | 0    | 0              | 7     |
| 1802  | 0    | 0    | 0    | 0    | 0    | 2    | 0              | 1              | 1    | 0    | 0    | 0              | 4     |
| 1803  | 0    | 0    | 0    | 2    | 0    | 0    | 2              | 1              | 0    | 0    | 1    | 0              | 6     |
| 1804  | 0    | 0    | 0    | 0    | 1    | 0    | 2              | 2              | 0    | 0    | 0    | 0              | 5     |
| 1805  | 0    | 0    | 0    | 0    | 0    | 1    | 2              | 0              | 0    | 0    | 0    | 0              | 3     |
| 1806  | 0    | 0    | 0    | 0    | 1    | 0    | <del>2</del> 4 | <del>2</del> 4 | 0    | 0    | 0    | <del>1</del> 1 | 10    |
| 1807  | 0    | 0    | 0    | 0    | 0    | 1    | 1              | 1              | 0    | 0    | 0    | 0              | 3     |
| 1808  | 0    | 0    | 0    | 0    | 1    | 1    | 7              | 1              | 2    | 0    | 0    | 0              | 12    |
| 1809  | 0    | 0    | 1    | 0    | 4    | 0    | 2              | 3              | 1    | 0    | 0    | 0              | 11    |
| 1810  | 0    | 0    | 1    | 0    | 0    | 1    | 1              | 3              | 1    | 0    | 0    | 2              | 9     |
| 1811  | 0    | 0    | 0    | 0    | 5    | 2?   | 1              | 1              | 2    | 1    | 0    | 0              | 12    |
| 1812  | 0    | 1    | 1    | 0    | 2    | 0    | 2              | 0              | 0    | 0    | 0    | 0              | 6     |
| 1813  | 0    | 1    | 0    |      |      |      |                |                |      |      |      |                |       |

The most thundery year was 1775 with 16 thunder days. Several of the years have as few as 3 thunder days. July 1808 had the most thunder days with a total of 7.

# SUMMARY OF THE CHIEF PHENOLOGICAL OBSERVATIONS.

| Year. | Heard Cuckoo. | Beech begin to foliate. | Frith Hedges begin to foliate. |
|-------|---------------|-------------------------|--------------------------------|
| 1771  | 9 May.        | 12 May.                 | 7 May.                         |
| 1772  | 2 "           | 6 "                     | 2 "                            |
| 1773  | 24 Apl.       | 25 Apl.                 |                                |
| 1774  |               |                         |                                |
| 1775  |               | 25 Apl.                 |                                |
| 1776  |               | 18 Apl.                 |                                |
| 1777  | 25 Apl.       | 30 Apl.                 |                                |
| 1778  | 16 May.       | 4 May.                  |                                |
| 1779  | 6 May.        | 10 Apl.                 |                                |
| 1780  | 19 Apl.       | 1 May.                  |                                |
| 1781  | 18 Apl.       | 20 Apl.                 |                                |
| 1782  | 25 Apl.       | 13 May.                 |                                |
| 1783  | 29 Apl.       | 21 Apl.                 |                                |
| 1784  | 20 Apl.       | 6 May.                  | 30 Apl.                        |
| 1785  | 17 Apl.       | 27 Apl.                 | 19 Apl.                        |
| 1786  | 24 Apl.       | 26 Apl.                 | 11 Apl.                        |
| 1787  |               | 21 Apl.                 | 14 Mar.                        |
| 1788  | 23 Apl.       | 19 Apl.                 |                                |
| 1789  | 10 May.       | 25 Apl.                 |                                |
| 1790  |               | 30 Apl.                 | 8 Mar.                         |
| 1791  | 22 Apl.       | 14 Apl.                 | 22 Mar.                        |
| 1792  |               | 16 Apl.                 |                                |
| 1793  | 4 May.        | 2 May.                  | 8 Apl.                         |
| 1794  | 21 Apl.       | 18 Apl.                 | 10 Mar.                        |
| 1795  | 5 May         | 28 Apl.                 | 16 Apl.                        |
| 1796  |               | 23 Apl.                 |                                |
| 1797  | 30 Apl.       | 1 May.                  |                                |
| 1798  | 26 Apl.       | 23 Apl.                 | 5 Apl.                         |
| 1799  | 11 May.       | 11 May.                 | 22 Apl.                        |
| 1800  | 26 Apl.       | 29 Apl.                 | 8 Apl.                         |
| 1801  | 24 Apl.       | 21 Apl.                 | 13 Mar.                        |
| 1802  | 26 Apl.       | 27 Apl.                 | 1 Apl.                         |
| 1803  | 25 Apl.       | 30 Apl.                 | 1 Apl.                         |
| 1804  | 28 Apl.       | 30 Apl.                 | 17 Mar.                        |
| 1805  | 27 Apl.       | 1 May.                  | 2 Apl.                         |
| 1806  | 5 May.        | 5 May.                  | 27 Mar.                        |
| 1807  | 9 May.        |                         | 11 Apl.                        |
| 1808  | 2 May.        | 4 May.                  | 18 Apl.                        |
| 1809  | 2 May         | 6 May.                  | 13 Mar.                        |
| 1810  | 24 Apl.       | 28 Apl.                 | 28 Mar.                        |
| 1811  | 23 Apl.       |                         | 21 Mar.                        |
| 1812  | 30 Apl.       | 8 May.                  | 4 Apl.                         |
| 1813  |               |                         | 25 Mar.                        |

| Year. | Jan. | Feb. | Mar. | Apl. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1771  | 1    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1772  | 1    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1773  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1774  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1775  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1776  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1777  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1778  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1779  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1780  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1781  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1782  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1783  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1784  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1785  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1786  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1787  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1788  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1789  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1790  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1791  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1792  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1793  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1794  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1795  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1796  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1797  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1798  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1799  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1800  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1801  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1802  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1803  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1804  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1805  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1806  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1807  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1808  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1809  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1810  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1811  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1812  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1813  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

The most thundery year was 1775 with 18 thunder days.  
 of the years have as few as 2 thunder days.  
 most thunder days with a total of 7.

| Year | Observed | Recorded | Remarks |
|------|----------|----------|---------|
| 1771 | May 3    | May 3    |         |
| 1772 | May 3    | May 3    |         |
| 1773 | May 3    | May 3    |         |
| 1774 | May 3    | May 3    |         |
| 1775 | May 3    | May 3    |         |
| 1776 | May 3    | May 3    |         |
| 1777 | May 3    | May 3    |         |
| 1778 | May 3    | May 3    |         |
| 1779 | May 3    | May 3    |         |
| 1780 | May 3    | May 3    |         |
| 1781 | May 3    | May 3    |         |
| 1782 | May 3    | May 3    |         |
| 1783 | May 3    | May 3    |         |
| 1784 | May 3    | May 3    |         |
| 1785 | May 3    | May 3    |         |
| 1786 | May 3    | May 3    |         |
| 1787 | May 3    | May 3    |         |
| 1788 | May 3    | May 3    |         |
| 1789 | May 3    | May 3    |         |
| 1790 | May 3    | May 3    |         |
| 1791 | May 3    | May 3    |         |

Aurora Borealis.

19 Feb. 1771  
7 Mar. 1771  
17 Mar. 1771  
7 Apr. 1771  
12 Apr. 1771  
2 Jun. 1771  
3 Jun. 1771  
9 Jun. 1771  
13 Jun. 1771  
31 Oct. 1771

1 Nov. 1771  
3 Apr. 1772  
3 Jun. 1772  
30 Jul. 1772  
2 Oct. 1772  
24 Dec. 1772  
24 Jan. 1773  
26 Mar. 1773  
30 Mar. 1773  
27 Sep. 1773

19 Oct. 1773  
11 Jan. 1774  
24 Jan. 1774  
20 Jan. 1775  
21 Jan. 1775  
19 Feb. 1776  
23 Feb. 1776  
6 Apr. 1777  
26 Mar. 1778  
21 Aug. 1778

22 Aug. 1778  
27 Aug. 1778  
14 Oct. 1778  
9 Nov. 1779  
29 Feb. 1780  
2 Mar. 1780  
28 Jul. 1780  
28 Mar. 1781  
29 Mar. 1781  
25 Apr. 1781

23 Sep. 1781  
15 Oct. 1781  
16 Nov. 1781  
30 Sep. 1781  
7 Nov. 1781  
27 Mar. 1783  
26 Apr. 1783  
27 Apr. 1783  
29 Apr. 1783  
20 Sep. 1783

22 Oct. 1783  
13 Oct. 1786  
17 Oct. 1786  
7 Jan. 1787  
21 Mar. 1787

18 Apr. 1787  
19 Apr. 1787  
26 Apr. 1787  
4 Oct. 1787  
11 Feb. 1788  
24 May. 1788  
22 Oct. 1788  
14 Nov. 1789  
26 Jan. 1791  
26 Dec. 1791

13 Oct. 1792  
12 Feb. 1793  
17 Oct. 1795  
22 Oct. 1804  
13 Oct. 1805.

Earthquake.

8 Sep. 1775

Eclipse, Lunar.

30 Jul. 1776  
23 Nov. 1779  
18 Mar. 1783  
10 Sep. 1783  
3 Jan. 1787  
27 Apr. 1790  
11 Sep. 1802  
26 Jan. 1804

Eclipse, Solar.

24 Jun. 1778  
15 Jun. 1787  
3 Apr. 1791  
5 Sep. 1793  
17 Aug. 1803  
11 Feb. 1804  
16 Jun. 1806

Lunar Rainbow.

30 Aug. 1781  
15 Oct. 1797

Meteor.

18 Aug. 1783.

Lunar Halo.

26 Feb. 1771  
25 Mar. 1771  
13 Nov. 1771  
13 Jan. 1772  
5 Oct. 1772  
29 Jan. 1773  
31 Jan. 1773  
19 Jan. 1774  
23 Feb. 1785  
21 Dec. 1787

23 Dec. 1787  
7 May. 1789  
22 Mar. 1790  
5 Feb. 1791  
17 Feb. 1799  
19 Feb. 1799  
7 Mar. 1800  
8 Mar. 1800  
14 Dec. 1801  
5 Mar. 1803

21 Mar. 1804  
23 Nov. 1806

Solar Halo.

27 Apr. 1771  
30 May. 1773  
20 Apr. 1775  
23 May. 1785  
22 Mar. 1804.

Solar Parhelia.

26 Apr. 1771

Rainbow.

14 May. 1771\*

Waterspout.

24 Sep. 1797.

\* The only mention of the ordinary rainbow in the record.

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