THE NATURALIST'S DIARY

A DAY-BOOK OF
METEOROLOGY, PHENOLOGY
AND
RURAL BIOLOGY.

CHARLES ROBERTS F.R.C.S., L.R.C.P. &c
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THE NATURALIST’S DIARY:
A DAY-BOOK OF METEOROLOGY, PHENOLOGY AND RURAL BIOLOGY.

"Without system the field of Nature would be a pathless wilderness; but system should be subservient to, not the main object of, pursuit."—GILBERT WHITE, Letter lxxxii.

Arranged and Edited by
CHARLES ROBERTS, F.R.C.S., L.R.C.P., Etc.,
AUTHOR OF "ANTHROPMOMETRY," "THE DETECTION OF COLOUR-BLINDNESS," ETC.

WITH A CHART SHOWING THE BLOSSOMING OF SPRING FLOWERS IN EUROPE, AND AN INTRODUCTION ON NATURAL PERIODIC PHENOMENA, ETC.

1888

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SWAN SONNENSCHEIN, LE BAS AND LOWREY, PATERNOSTER SQUARE.
organic phenomena which may be studied in the pages of the Diary. Correlations exist between the leafing of trees, the germination of seeds, and the temperature on the grass; between the blossoming of flowers and the appearance of insects; between the ripening of fruit, the appearance of insects, and the temperature in the sun; between the appearance of insects and their larvae, the ripening of fruit and seeds, and the nesting and migration of birds—all of which are of great scientific interest, and of practical value to persons engaged in rural occupations, as is also a knowledge of the first appearance of insect pests, with a view to their early destruction.

To the botanist, entomologist, and ornithologist, and especially to the young naturalist, the Diary will serve as a guide to the localities and the seasons where and when the objects he wishes to study may be found; and it will supply lists of objects to be looked for on each day of the year. It will also enable him to record the results of his observations in a systematic manner, and where they can be preserved for future reference.

To all persons, whether living in town or country, the Diary will afford space for recording the results of their out-door occupations, or for such personal observations as show the relation of the human body to the other phenomena recorded. The relation of the growth of children to the seasons of the year, of diseases and epidemics to varying conditions of climate, and of periodic phenomena common to men and the lower animals, are of this kind, and are all deserving of careful study. A game and fishing list is introduced in this part of the Diary as being most agreeable to the other entries, but any other set of observations may be substituted for it.

The Diary, in conformity with books of a similar kind, commences with the first day of the year, but this is not the beginning of the biological year. Theoretically it ought to begin the day after the winter solstice (i.e., December 22nd), but in our latitudes the climate lags behind the sun’s movements. The mean temperature for twenty years at Marlborough shows that January is the coldest month, and the fourth week of that month the coldest week of the year; and it is not till the middle of February that the sun’s influence is perceptible, and a slight and sustained increase of temperature takes place. The middle of February (St. Valentine’s day) may be accepted, therefore, as the beginning of the biological year, and the diary should be kept round the year from that time, the daily accumulated temperatures and rainfalls being corrected by deducting the values representing the day (on February 14th 90.8° and five inches respectively) from the subsequent totals. As I have explained elsewhere, the plants which blossom with us in January and beginning of February belong to the previous autumn, and should be studied in connection with it.

Collective investigation—that is to say, the systematic observation of the same phenomena by a large number of persons living over a wide
area—is now a recognized and valued form of scientific inquiry, as witness the numerous committees of the British Association for the Advancement of Science devoted to collecting observations of this kind. The subjects embraced by the Diary are especially adapted for collective investigation, both by independent observers and the members of the numerous Natural History Societies and Field Clubs which exist throughout the country. The subjects for inquiry have, moreover, the further recommendation of being of local as well as general value, and observers in following them out will have the satisfaction of reaping results which are of immediate interest to themselves and their neighbours, as well as contributing to the general store of facts, and the advancement of natural science. With a view to extending the scope of the work and of securing the greater accuracy of its contents, it is proposed to issue the Diary annually, and to invite contributions of trustworthy observations to this end, all such contributions to be made to the Editor of “The Naturalist’s Diary,” to the care of the Publishers.

I must here acknowledge my debt and record my thanks to the Rev. T. A. Preston, M.A., F.R.Met.Soc., the founder, and for sixteen years President of the Marlborough College Natural History Society, for the published reports, and for many manuscript tables and notes relative to the meteorological and botanical parts of the work. I must also express my thanks to Mr. John T. Carrington, F.L.S., for revising the index of Lepidoptera and bringing it into conformity with the nomenclature at present in use in this country and on the Continent.

C. R.

LONDON, January 1st, 1886.
INTRODUCTION.

The study of Natural History has altered much both in character and methods in recent years. Botany and the other branches of natural science no longer consist of the mere collecting, preserving, classifying, and naming—the indexing, so to speak—of natural objects; but in observing the development, life-history, and periodical phenomena of such objects, their modifications under natural and artificial conditions, and the relations they bear to each other and to the pleasures and wants of mankind. The analytical methods of studying natural history are giving place to the synthetical, and, instead of pulling plants in pieces, and anatomizing animals to ascertain their minute physical differences, attention is being directed to their relationship to each other, and to the forces and agencies by which living things are developed, built up, preserved, and reproduced.

Of the many attractions of rural life—and, to a certain extent, of urban and suburban life also—none are more interesting and instructive, nor more frequently the subject of observation and record, than the periodic phenomena associated with plants and animals; and to persons engaged in rural occupations, none are of greater importance, nor the source of so much anxiety. The germination of seeds, the leafing, blossoming, ripening of fruit and seeds, and the change and fall of the leaves of plants and trees; the migration, song, and nesting of birds; the appearance of insects and their larvæ; the habits and instincts of animals, &c., are all phenomena of this kind; and, being dependent on seasonal and meteorological conditions, are largely correlated or dependent on each other, and, to be properly understood, must be studied together. It is to promote the study of rural biology on this broad basis that I have compiled the Diary. I have adopted the title of "Naturalist's Diary" as one which is quite familiar to students of natural history, but the book is much more than a mere diary. It is a serious attempt on a large scale to show the correlation or interdependence of a wide range of natural phenomena, on a plan which has not hitherto been attempted. Observations of the kind which are embodied in the pages of the Diary, and which
are known to meteorologists and botanists as *phenological observations*, have been made for many years past in this country and on the Continent for the purpose of distinguishing local climatic conditions, and the Royal Meteorological Society has a standing committee which is engaged in collecting and discussing observations of this description.

The scientific value of the Diary depends on the care with which the observations have been made, and on the value which is to be attached to averages of observations extending over a period of twenty years. Considerable experience in dealing with averages of observations of a similar kind made at Marlborough and elsewhere, has given me the fullest confidence in this method of arriving at the most probable results when dealing with such complicated phenomena as are here dealt with, and the plan of placing the phenomena side by side will be the best test of their trustworthiness, and afford facilities for eliminating, by further observations, any errors which may exist. The meteorological observations are, with very few exceptions, the results of twenty years, those of plants of not less than seventeen years' observation, while those referring to birds and insects vary in number, and also in the years in which the observations were made. To add variety, and form centres for further observations, a few entries are given from Gilbert White's Diary \(^1\) and Mr. C. Whitehead's Reports.\(^2\)

To persons engaged in country occupations, whether for profit or pleasure, a systematic study of the phases of vegetable and animal life is of the greatest interest and importance, and the Diary has been arranged with a view to such a form of study. The character of soils as well as climates is best judged by their vegetable products, and the periods at which grasses, plants, and trees blossom and attain maturity. Not only has each district, but each farm, and often each field or garden, a character of its own; and it is only by observing, recording, and comparing with some ascertained standard, the specific products of each locality, that their peculiarities can be determined and turned to profitable account. It is well known, for instance, that one field will grow clover, and another will not; that one pasture will fatten sheep quickly, while another will do so slowly; and a good deal of what is called "practical farming" consists in remembering facts of this kind and taking advantage of them; or, as is too often the case, in ignoring or forgetting them, to the certain disappointment and loss of the farmer. Peculiarities of this kind, although remotely due to the soil and climate, are really peculiarities of vegetation, and should be studied and recorded in a systematic manner to be properly understood and utilized.

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\(^1\) White's "Natural History of Selborne." These entries are distinguished by the letters (G. W.). The dates are about a week earlier than at Marlborough.

INTRODUCTION.

Again, the ravages of insects and their larvae are of the most serious import to all persons interested in the cultivation of the soil, whether it be farming, gardening, or forestry; and it is only by observing and recording the earliest time of the appearance of such insects that preventive measures can be adopted with any prospect of success. The Diary contains many records of this kind, and I regret that it does not contain many more. Miss Ormerod, whose labours in this field of inquiry are well known, informs me that no trustworthy results as to the average time of the first appearances of insect pests have yet been obtained; and I hope, therefore, that the Diary will afford facilities for collecting observations relating to this subject in all parts of the country, from which useful results may be obtained.

Apart from the study of climate and the economic productions of the soil, a very large number of persons are close observers of nature from the intellectual pleasure and culture it affords. There are probably few country-bred persons of either sex who have not at some period of their lives kept a naturalist's diary, in one form or another, and many such diaries are at present in existence which contain interesting and valuable records, but which are lost to science from the absence of a trustworthy standard with which to compare and correlate them. One of the objects of the Diary is to furnish a standard of this kind, and it is especially suitable for the purpose from the wide range of subjects it embraces, and also from the fact that the climate and physical surroundings of Marlborough are those of the average of the inland and cultivated parts of our Islands. Mr. Preston and his numerous co-labourers have directed their attention chiefly to the first blossoming of plants, the first appearance of butterflies and moths, and the migration and nesting of birds, which has necessarily crowded the data into the spring and summer months, and left the pages of the autumn and winter months comparatively empty. But the student of climate, especially if he consider it from a sanitary point of view, and the cultivation of the soil, will find ample materials for insertion in the blank pages. Observations are required on the ripening of fruits, seeds, and roots, and their time of harvesting; on the survival and the second blossoming of plants and trees at unusual seasons, and on the change and fall of the leaf as indicating the ripening of buds and the prospect of future fruit crops. Further observations are also required on the casual appearance of insects, the migration of birds in winter, and the hibernation and other phenomena of animal life, &c.

Many persons will probably not have either the time nor the inclination to devote their attention to all the subjects of inquiry embraced in the Diary; but the specialist who confines his labours to one or two sections cannot fail to be interested in the correlative phenomena, and thus gain a wider view of the significance of his favourite branch of study.

The Diary will be useful in exciting an interest in natural science
among the young, as it is a kind of Nature’s “Birth-day Book,” in which the birth-days, so to speak, of flowers, butterflies, and birds, are recorded, and with which children may compare their own birth-days and those of their friends. For natural history classes in schools it will supply lists of objects to be sought for on country walks and excursions on each day of the year, and it will also furnish special and appropriate subjects for teachers and lecturers to explain at the proper seasons.

To make the study of natural history easy and pleasant to the young, and to persons who do not wish to study it systematically, but who, nevertheless, may be trustworthy observers, the English names, and in many instances the provincial names of plants, insects, birds, and animals are given, as are also the natural habitats of plants, the situations in which insects are usually found, the plants on which their larvae feed, and the most common position of the nests of birds. The English names of most of our wild plants are well established, and they are therefore included with the generic names in the general index, while the English names only of fishes, reptiles, birds, and animals, are given. Among entomologists, and especially among those who make a special study of butterflies and moths, little attention is given to either the English or the generic names, and the specific names are chiefly employed; but in a work like this it would be impossible to give an index of specific names of about two thousand insects, and the generic names alone are included in the general index, references, however, being given to the pages of the “Entomologist” synonymic list of British Lepidoptera where the specific names are to be found, as well as to the pages of the Diary.

PERIODICITY IN NATURAL PHENOMENA.

We are accustomed to divide the year into four seasons, spring, summer, autumn, and winter, but in our temperate regions Nature divides it into three, and she shows a disposition to contract the three to two as we proceed towards the arctic regions on the one hand, and to the tropics on the other. In the temperate and arctic regions these natural seasons are chiefly the result of variations in the heat and light of the sun’s rays, while in the tropics moisture plays the principal part; hence we have in the former warm and cold seasons, and in the latter wet and dry seasons.

The three seasons of organic objects are: (1) The season of growth, or its correlative reproduction; (2) The season of maturation (i.e. the ripening of fruits, seeds, and buds of vegetables, and the consolidation and fattening of animals); and (3) The season of rest or equilibrium of the

1 For much of this information I am indebted to Hayward’s “Botanist’s Pocket-book” (Bell and Sons); Miller’s “Dictionary of English Names of Plants” (Murray); Merrin’s “Lepidopterist’s Calendar” (Marsden, Gloucester); and Stephens’s “List of British Lepidoptera in the British Museum” (1850).
two former conditions (i.e. the defoliation of trees, and, in extreme cases, hibernation of animals). These natural seasons are most distinctly marked the lower we go in the organic scale, but they are more or less distinguishable throughout the vegetable and animal kingdoms. In our temperate climate the season of growth or reproduction is in the spring and early summer; that of maturation is in the late summer and autumn; and that of rest in the winter months. The range of the seasons varies with different species of plants, and they are further modified by various natural and artificial conditions. Cultivation, with its numerous appliances for modifying the physical conditions of temperature, moisture, and soil, tends to a hastening or shortening of the earlier seasons—hence cultivated plants generally blossom and fruit earlier than wild ones of the same species; and some meteorological conditions, such as high temperatures and droughts—if they do not suspend vegetation altogether—shorten the period of growth and hasten that of maturation, and sometimes give rise to the exceptional phenomena of the second leafing and blossoming of plants and trees in the same year.

The order of the seasons differs with the relative length of the day and night. Growth in length or bulk of vegetables takes place in the dark, while maturation of structures and juices takes place in the light; hence the plants of arctic and alpine regions are dwarfed by the short, cold nights, and hastily matured (as shown by a profusion of blossoms) by the long days of these regions, and there are few spring flowers because the seasons pass quickly from winter to summer. In the tropics, on the other hand, where the days and nights are of nearly equal length and the temperature is always favourable, growth is almost continuous (hence an excess of leaves over flowers), and is interrupted only by lack of moisture.

Much of the irregularity in the blossoming of plants and trees in our climate is no doubt due to the introduction, by what is called acclimatization, of numerous plants belonging to other latitudes. The early blossoming plants, such as the winter aconite, snowdrop, and spring crocus, belong originally to warm, temperate climates, where drought is a more powerful agent in modifying vegetation than it is in our cold and moist climate—their bulbous roots being a provision against drought rather than low temperatures—and their blossoming corresponds, therefore, with the wet seasons of their native regions rather than the beginning of the warm season in our own. In like manner the cultivated trees which blossom early with us, and at the risk of being destroyed by our late frosts, such as the apricot and the peach, are natives of warmer latitudes which persist in the habit of blossoming as near to the time they would blossom in their native climates as ours will permit.

The season of maturation is most distinctly displayed by the ripening of fruits and seeds, but it equally applies to the ripening of the buds, roots, and tubers of perennial trees and plants which cast their leaves or die down.

The season of rest is best seen in our forest trees which shed
their leaves in the autumn and appear to remain dormant during the winter. This season of rest cannot, however, be a condition of absolute stagnation, as it is obviously necessary to the healthy survival, and to the early start in growth of the tree in the spring, and probably some physiological or chemical action goes on which we cannot recognize. Otherwise it is difficult to understand the quick response, and often the impatience of all checks, so to speak, which vegetation shows on the first slight increase of temperature in the spring, while remaining insensible to much higher degrees of temperature in the autumn. It is true that a few trees do occasionally make mistakes of this kind, but it is only after an excessively hot and dry summer, when a period of enforced rest has occurred in a manner similar to that which takes place in the tropics.

This condition of rest in vegetables (rather than that commonly called "sleep" in some plants) is probably remotely correlated with sleep in the higher organisms, although that condition is usually associated with the existence of a nervous system. The freshness and joyousness of spring has much in common with the condition of body and mind which results from refreshing sleep, and it would seem to be due to some deeper cause than the mere increase in light and heat from the sun's rays on his return northwards. The season of rest in the arctic regions is much longer, and it emerges more quickly into the period of greatest activity than in ours, while in the tropics it is shorter and is not very clearly differentiated from the period of mere growth.

The threefold division of the seasons is distinguished among insects by the three stages of their life-history—the perfect insect, the caterpillar, and the chrysalis. Some insects in the perfect form are said to hibernate during the winter, but this is probably only a condition of the survival of a few individuals under favourable conditions of shelter and warmth, as the chrysalis state is the correlative of hibernation in animals. Among birds we find the threefold seasons distinguished by the nesting, maturation, by fattening of both young and parent birds, and rest by the migration, or the survival on a limited diet during the winter.

A similar order exists among animals, but the phases are less regular on account of the more varied conditions under which they live. With animals there is a season of reproduction and growing, and a season of fattening, while the season of rest is one of equipoise, between the other two, which sometimes proceeds to a state of suspension of all active movements except respiration in hibernation, the animals subject to this condition surviving by the consumption of the fat accumulated during the preceding season. Even in man something similar to the periodic phenomena discoverable in the lower animals exist. They are obscured by the long period over which growth extends; but if children be studied, who are more closely related to the lower forms than adults, periods of growth, of fattening, and of equipoise are distinguishable. Some observations made on prisoners by Dr. W. R. Miller show that an increase of weight takes
INTRODUCTION.

place between April and August, and a loss of weight from September to March, the loss of weight corresponding with a greater excretion of carbonic acid, from the destruction of fat in the winter months. While this work was passing through the press, some observations made by the Rev. M. Hansen, of Copenhagen, have been published which show that three distinct seasons of growth in stature, increase in weight, and of equipose, occur in children; the season of growth being from April to August, of increase in weight from August to December, and these two kinds of activity are followed by a period of rest extending from December to April. Mr. Hansen also found that a continued increase of temperature at any time of the year favoured an increase in the weight of the body.

CLIMATE.

For determining the climate of a country, a district, or a health resort, no method is so interesting and satisfactory, and at the same time so easily carried out, as recording the condition of vegetation at different seasons of the year. Meteorological observations made by means of instruments require an amount of skill, time, and perseverance which many persons do not possess, and at best such observations are open to many sources of error from the liability of the instruments to get out of order, and from other causes; and they are, to the majority of persons, singularly wanting in passing interest. The interpretation, moreover, of such observations is often difficult and unsatisfactory, as differences of climate are due to subtle combinations of sunshine, rain, wind, and soil, which no instruments can record nor figures represent, and which are only truly declared by the varying conditions of vegetation, and remotely by the insects which feed on it, and by birds and animals which feed on both and are themselves influenced by such conditions.

A familiar acquaintance with many of the winter health resorts of Europe, and a traveller's acquaintance with many other countries and climates, has impressed me with the superiority of the biological over the physical methods of distinguishing climates; and its advantages are fully recognized by the public, as is evident from the frequent correspondence in the press relative to the early or late blossoming of plants, the times of the appearance of insects, and of migratory birds, in different parts of the country. On the other hand, writers on climatology do not sufficiently recognize its importance, but trust too implicitly to mere averages of

* This remark does not apply to Dr. H. Bennet, the author of "Winter and Spring in the Mediterranean." Writing to me on this subject Dr. Bennet says: "I am glad to find that you agree with me in attributing special value to botanical phenomena in appreciating meteorological conditions and climate. In my Mediterranean travels I found it an infallible guide. An hour's observation gave the key."
INTRODUCTION.

meteorological data, forgetting that similar averages or means may result from very different ranges of climatic conditions. It is the extremes of temperature, moisture, &c., which determine the character of the vegetation of a locality or district, and these are also the conditions which determine the character of a health resort.

Plants and trees, moreover, may be looked on as natural registering "weather-glasses" of different degrees of sensibility. Some botanists (Boussingault, Alph. de Candolle, Ch. Martins, De Gasparin, Harvé Mangon, Hoffmann) assert that what may be termed the zero, or stationary condition of vegetation, is at 6° C. (about 42° F.), and that the various phases of plant-life depend on the accumulated heat to which they are exposed; and many observations and calculations have been made with the object of testing the truth of this theory, especially on plants which are of economic importance. In the present contribution to the subject I have dwelt with the meteorological and phenological observations of twenty years as if they had been made in only one year, and by the use of averages I have eliminated, as far as possible, any errors of observation of either an instrumental or a biological kind. In this way the temperature equivalent of upwards of three hundred native British plants has been determined, as has also, in a less definite way, their moisture equivalent. The reverse of this is also true. The blossoming of the various plants indicate the existence of their temperature and moisture equivalents—facts of extreme interest and importance to farmers and gardeners as well as meteorologists, which would be greatly enhanced in value if we possessed a similar set of observations on the germination of seeds and the ripening of fruits and seeds.

The neighbourhood of Marlborough, where the observations entered in the Diary were made, very nearly represents the average climatic conditions of the cultivated parts of England, and it is therefore suitable as a standard with which to compare local variations. The geological, physical, and meteorological characters of the district are given on the following page, and the meteorological observations show that the mean

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... To avoid as far as possible any cumulative errors, the data were worked out for each year and then averaged. This will explain any want of consistency in the figures which may appear.

3 Some careful experiment observations are required to determine the zero, or stationary point of vegetation, which might be carried out by means of the microscope. It probably varies somewhat in different orders of plants, and is no doubt in many of them lower than 42° F.
temperature for the three winter months is 0°7 lower, and for the three summer months 2°3 lower, than Greenwich; while the rainfall is 712 inches greater than at Greenwich. As will be seen by the table at page xix., the first blossoming of plants is a little earlier at Marlborough (on an average of twenty years) than in the rest of the country, as represented by the average of ten years' observations collected by the Phenological Committee; but in a large number of plants the dates are so nearly alike as to suggest that the differences are chiefly due to different methods, or to slight errors of observation. The chief value of the Marlborough observations consists in their having been made under the same conditions and in a uniform manner, and by a large number of persons trained in the same school of observation.

The following data refer to Marlborough, where the meteorological and biological observations were made:—

<table>
<thead>
<tr>
<th>Place: Marlborough.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude, 1°43' W.; Latitude, 51°25'.</td>
</tr>
<tr>
<td>Area of observation: a radius of 6 miles.</td>
</tr>
<tr>
<td>Geology { Surface: about 1 foot of soil. Subsoil, &amp;c.: chalk.</td>
</tr>
<tr>
<td>County or district: Wiltshire.</td>
</tr>
<tr>
<td>Elevation above sea, 400-500 feet.</td>
</tr>
<tr>
<td>Distance from the sea-coast, 50 miles N. and E. of English and Bristol Channels.</td>
</tr>
<tr>
<td>Natural { Downs (pasture), arable, and forest.</td>
</tr>
<tr>
<td>features { (no mountain, swamp, or moor).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Mean, 20 Years.</th>
<th>Highest in 20 Years.</th>
<th>Lowest in 20 Years.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAROMETER—Highest Reading</td>
<td>29°719</td>
<td>36°970</td>
<td>18th Jany., 1882</td>
</tr>
<tr>
<td>Mean</td>
<td></td>
<td>28°091</td>
<td>20th Jany., 1873</td>
</tr>
<tr>
<td>Lowest</td>
<td></td>
<td>9°0</td>
<td>13th Aug., 1876</td>
</tr>
<tr>
<td>MAX. TEMP. IN SHADE</td>
<td>55°9</td>
<td>1°0</td>
<td>5th Jany., 1867</td>
</tr>
<tr>
<td>Mean Max.</td>
<td></td>
<td>17°0</td>
<td>21st June, 1870 -</td>
</tr>
<tr>
<td>MIN. TEMP. IN SHADE</td>
<td>40°9</td>
<td>1°0</td>
<td>5th Jany., 1867</td>
</tr>
<tr>
<td>Mean Min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEAN TEMP.</td>
<td>47°7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAX. TEMP. IN SUN</td>
<td>96°0</td>
<td></td>
<td></td>
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<tr>
<td>Mean Max.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIN. TEMP. ON GRASS</td>
<td>35°8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean Min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEMP. OF DEW POINT</td>
<td>43°1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEGREE OF HUMIDITY, SAT. = 100</td>
<td>8°5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEAN AMOUNT OF CLOUD</td>
<td>6°9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAIN, AMOUNT COLLECTED</td>
<td>34°54</td>
<td>43°79*</td>
<td>*1882</td>
</tr>
<tr>
<td>No. of Days</td>
<td>183</td>
<td>23°41†</td>
<td>↑1870</td>
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<td></td>
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<td>(heaviest 2°32 in.</td>
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<td></td>
<td></td>
<td></td>
<td>on July 14, 1875</td>
</tr>
</tbody>
</table>

Works of reference to locality:—*Birds of Marlborough.* By E. F. im
INTRODUCTION.

meteorological data, forgetting that similar averages or means may result from very different ranges of climatic conditions. It is the extremes of temperature, moisture, &c., which determine the character of the vegetation of a locality or district, and these are also the conditions which determine the character of a health resort.

Plants and trees, moreover, may be looked on as natural registering "weather-glasses" of different degrees of sensibility. Some botanists (Boussingault, Alph. de Candolle, Ch. Martins, De Gasparin, Harvé Mangon, Hoffmann) assert that what may be termed the zero, or stationary condition of vegetation, is at 6° C. (about 42° F.), and that the various phases of plant-life depend on the accumulated heat to which they are exposed; and many observations and calculations have been made with the object of testing the truth of this theory, especially on plants which are of economic importance. In the present contribution to the subject I have dwelt with the meteorological and phenological observations of twenty years as if they had been made in only one year, and by the use of averages I have eliminated, as far as possible, any errors of observation of either an instrumental or a biological kind. In this way the temperature equivalent of upwards of three hundred native British plants has been determined, as has also, in a less definite way, their moisture equivalent. The reverse of this is also true. The blossoming of the various plants indicate the existence of their temperature and moisture equivalents—facts of extreme interest and importance to farmers and gardeners as well as meteorologists, which would be greatly enhanced in value if we possessed a similar set of observations on the germination of seeds and the ripening of fruits and seeds.

The neighbourhood of Marlborough, where the observations entered in the Diary were made, very nearly represents the average climatic conditions of the cultivated parts of England, and it is therefore suitable as a standard with which to compare local variations. The geological, physical, and meteorological characters of the district are given on the following page, and the meteorological observations show that the mean

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4 To avoid as far as possible any cumulative errors, the data were worked out for each year and then averaged. This will explain any want of consistency in the figures which may appear.
5 Some careful experiment observations are required to determine the zero, or stationary point of vegetation, which might be carried out by means of the microscope. It probably varies somewhat in different orders of plants, and is no doubt in many of them lower than 42° F.
temperature for the three winter months is 0°7 lower, and for the three summer months 2°3 lower, than Greenwich; while the rainfall is 9'12 inches greater than at Greenwich. As will be seen by the table at page xix., the first blossoming of plants is a little earlier at Marlborough (on an average of twenty years) than in the rest of the country, as represented by the average of ten years' observations collected by the Phenological Committee; but in a large number of plants the dates are so nearly alike as to suggest that the differences are chiefly due to different methods, or to slight errors of observation. The chief value of the Marlborough observations consists in their having been made under the same conditions and in a uniform manner, and by a large number of persons trained in the same school of observation.

The following data refer to Marlborough, where the meteorological and biological observations were made:

<table>
<thead>
<tr>
<th>Place</th>
<th>Marlborough.</th>
</tr>
</thead>
<tbody>
<tr>
<td>County or district</td>
<td>Wiltshire.</td>
</tr>
<tr>
<td>Longitude</td>
<td>1°43 'W.; Latitude, 51°25'</td>
</tr>
<tr>
<td>Area of observation</td>
<td>a radius of 6 miles.</td>
</tr>
<tr>
<td>Geology</td>
<td>Surface: about 1 foot of soil. Subsoil, &amp;c.: chalk.</td>
</tr>
<tr>
<td></td>
<td>County or district: Wiltshire. Elevation above sea, 400-500 feet. Distance from the sea-coast, 50 miles N. and E. of English and Bristol Channels. Natural features (no mountain, swamp, or moor).</td>
</tr>
<tr>
<td></td>
<td>County or district: Wiltshire. Elevation above sea, 400-500 feet. Distance from the sea-coast, 50 miles N. and E. of English and Bristol Channels. Natural features (no mountain, swamp, or moor).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Mean, 20 Years.</th>
<th>Highest in 20 Years.</th>
<th>Lowest in 20 Years.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAROMETER—Highest Reading ..................</td>
<td>29°719</td>
<td>30°970</td>
<td>28°891</td>
</tr>
<tr>
<td>Mean ..................</td>
<td></td>
<td>18th Jany., 1882</td>
<td></td>
</tr>
<tr>
<td>Lowest ..................</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAX. TEMP. IN SHADE  .................</td>
<td>92°0</td>
<td>20th Jany., 1873</td>
<td></td>
</tr>
<tr>
<td>Mean Max. ...........</td>
<td></td>
<td>13th Aug., 1876</td>
<td></td>
</tr>
<tr>
<td>MIN. TEMP. IN SHADE  .................</td>
<td>55°9</td>
<td>1°0</td>
<td></td>
</tr>
<tr>
<td>Mean Min. ...........</td>
<td></td>
<td>5th Jany., 1867</td>
<td></td>
</tr>
<tr>
<td>MEAN TEMP. ..........</td>
<td>45°9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAX. TEMP. IN SUN ..................</td>
<td>47°7</td>
<td>21st June, 1870</td>
<td></td>
</tr>
<tr>
<td>Mean Max. ...........</td>
<td>172°0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIN. TEMP. ON GRASS .................</td>
<td>96°0</td>
<td>5th Jany., 1867</td>
<td></td>
</tr>
<tr>
<td>Mean Min. ...........</td>
<td>35°8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEMP. OF DEW POINT ..........</td>
<td>43°1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEGREE OF HUMIDITY, SAT. = 100 ..........</td>
<td>8°5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEAN AMOUNT OF CLOUD .................</td>
<td>6°9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAIN, AMOUNT COLLECTED ..................</td>
<td>43°79*</td>
<td>23°41†</td>
<td></td>
</tr>
<tr>
<td>No. of Days ...........</td>
<td>183</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>°1882 (heaviest 2'32 in. on July 14, 1875)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1870 (on July 14, 1875)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Works of reference to locality:—*Birds of Marlborough.* By E. F. im
INTRODUCTION.


The Scheme of Observation of the Phenological Committee of the Royal Meteorological Society.

The plants, insects, and birds, selected by the Committee for observation are embodied in the pages of the Diary, and are distinguished from all other entries by being printed in small capitals, all the other entries being in italics or ordinary type. The following objects included in the scheme have not, however, been systematically observed at Marlborough, and must be inserted in their proper place by each observer:—Menithea aquatica (Water Mint); Fagus sylvatica (Beech). Insects (first appearances, abundance or scarcity): Melolontha vulgaris (Cock Chafer, or May Bug); Rhizotrogus solstitialis (Fern Chafer, or July Chafer); Timarcha leavigata (Bloody-nose Beetle); Lampyris noctiluca (Glowworm); Apis mellifica (Honey Bee, or Common Hive Bee); Vespa vulgaris (Wasp); Bibio Marci (St. Mark's Fly).

The following table showing the average dates of blossoming of plants at fifty stations in different parts of the British Isles, compiled from the Reports of the Phenological Committee drawn up by the Rev. T. A. Preston, M.A., F.R.Met.Socy., and published in the Quarterly Journal of the Royal Meteorological Society, 1884-5, shows some of the results of the Committee's operations for the past ten years. The average of the twenty years' observations at Marlborough are given also in order to show the relation of the climate of Marlborough to the rest of the country as distinguished by this set of observations.
The monograph from which the Chart (frontispiece) is taken is designed, the author tells us, "to present a general résumé of the numerical results of the most important and useful observations hitherto made at all the stations in Europe (about two thousand in number, nearly two hundred
of which are in the British Isles) for comparison or further use in any other way by the reader;" and the "Scheme" is the one which he thinks, after forty years' study of the subject, is the most suitable for general adoption. The Chart is constructed from the blossoming of the spring flowers included in the Scheme, an alphabetical list of the time of flowering of which at the various stations is given in Dr. Hoffman's pamphlet. The "Scheme" is arranged according to the calendar, and I have added to the table, for the purpose of comparison, the corresponding observations made at Marlborough, and at Swaffham in Norfolk. Dr. Hoffmann's Scheme comprises fewer plants, but a greater variety of vegetation-phases, than that of the Phenological Committee, and perhaps on this account will be more acceptable to many persons. The plants it embraces, moreover, are, with the exception of the Tartarian honeysuckle, the quince, and the vine (growing out of doors), common and familiar objects to almost everybody in this country, as well as on the Continent; and observations made on them are therefore less liable to error, than when made on plants which demand some botanical knowledge for their identification. The difficulty and uncertainty on this head is much felt by the Phenological Committee, and to avoid mistakes observers are required to furnish specimens of the plants with their reports. Dr. Hoffmann's list of plants and trees is introduced in the pages of the Diary in brackets for the use of those persons who may prefer his limited scheme to the more comprehensive one of the Committee.

The following is Dr. Hoffmann's summary of the most important results of his work:

1. Since the mean temperature (for a week or month) represents only a fragment of the temperature of the year, while a vegetation-phase must include also the effect of the temperature of the preceding months from the commencement of the period of vegetation, no coincidence between the two can be expected; and the less so since the mean temperatures are observed in the shade, while our plants grow in sunshine.1

2. The retardation towards the North of the blossoming of spring-flowering plants is at once perceptible and easily understood. Summer-flowering plants are retarded much less, since a compensation is afforded by the greater length of the day as you go northwards. The value of this fact for the possibility of the development of fruit is evident.

3. Advancing from the West towards the East, in the same latitude (e.g. Giessen, about 50°) and the same altitude, the blossoming and opening of

1 The accumulated temperature in the sun can be easily calculated from the data given in the Diary, but the difficulties of ascertaining the sun temperature under all the conditions of plant-life are so numerous that little confidence can be placed in this method, and it has not been accepted, notwithstanding Dr. Hoffmann's persistent advocacy of it.
INTRODUCTION.

the leaves of spring-flowering plants, especially *Prunus spinosa*, appear to be retarded. (Decreasing influence of the riparian climate with its mild winter.) The sinking of the curve of the blossoming of spring-flowering plants towards the East is indicated on the chart by the dotted isophanal lines on the German Ocean.

4. The *blossoming of summer-flowering plants* is, on the contrary, later in the West, earlier in the East towards Giessen. (Warmer continental summer).

5. In the central *mountain-region* the blossoming of spring-flowers is retarded (later melting of the snow); while with summer-flowering plants it is nearly the same—as, e.g., in the Alps as compared with Giessen:—Secale, *Solidago virgaurea* (strong insolation from the clearness of the air and favourable exposure); while the ripening of fruit is usually retarded in proportion to the absolute altitude. (Earlier commencement of the autumn with falling temperature.)

6. The *ripening of fruits* is earlier at Prague and Cracow than in Giessen, being delayed as you advance westwards (continental summer).

7. The *interval* between blossoming and ripening of fruit is well known to be shorter in the far North than in Central Europe. This is true for all those plants for which the increase of warmth from the longer day affords sufficient compensation. Where this is not the case, the fruits do not regularly ripen. (In Giessen the bilberry, *Vaccinium Myrtillus*, ripens in July; in Iceland in September. In the “Tundress” of Northern Siberia, the species of *Vaccinium* do not usually ripen their fruits, although widely dispersed by birds.)

8. The same interval is, in the *mountain-region* of Central Europe, in the case of *Æsculus*, shortest north of the Alps above 500 m., longer in the higher mountains at 600 m. or more. With *Secale* the length of time does not increase simply with the height; a secondary influence, that of exposure, which changes with the locality, has a powerful effect.

9. The *colouring of the leaves* appear to commence earlier in the West (south of England) than at Giessen.

10. The *ninth phenological province*, so extensive in the far North (thirty-two to about sixty days after Giessen; see chart), appears to be entirely wanting in the South, even in higher Switzerland. By this retardation, the ripening of the fruits of spring-flowers (e.g., *Prunus Padus* and *Ribes rubrum*) is rendered possible in the far North by the influence of the very short but very hot summer (long days), while in higher Switzerland this compensation fails.
INTRODUCTION.

11. The mean succession in time of the different phases (especially the opening of the flowers—as is shown in our "scheme" given below, founded on observations in Giessen—appears to be uniform throughout Europe (with a few exceptions which should be more closely investigated). A comparison may be made (of observations extending over at least ten years) between Giessen, Copenhagen, Marlborough, Selborne, Swaffham, St. Petersburg, Ostend, Vienna, Prague, Wyngan, Winnendan, Zwenkau, Zloczow, Hermannstadt, &c.

It may hence be thought possible to construct a normal plant (such as the widely distributed and early blossoming Corylus, Ribes rubrum, Betula alba, or Prunus spinosa), and to compare all others with it.

The first points for phenological observations—an approximate and preliminary description having now been given in the preceding work—should be as follows:

1. Continuation of the interrupted observations at the majority of the stations established, for the purpose of obtaining true means instead of the provisional ones.

2. General charts for individual species; as the blossoming and ripening of the fruit of _Esculus _and _Secale_. (A very comprehensive chart for the blossoming of the lilac, Syringa vulgaris, throughout Europe is given by Ihne in the "Botainsches Centralblatt," vol. xxii., 1885, No. 3).

3. Special charts for as many regions as possible, especially those with a variety of soil. (See the excellent chart of the neighbourhood of Frankfort by J. Ziegler in the "Berichte der Senskeub. naturf Gesellschafter, in Frankfort, 1882–83.")

4. Extension of the network of observations; a large part of Europe is still unknown from a phenological point of view.

5. Influence of transplantation on the phases; e.g. from the higher mountains to lower elevations; from south to north, and the reverse; especially in reference to the wild plants, and their descendants in cultivation (capacity for adaptation).

SCHEME FOR PHENOLOGICAL OBSERVATIONS.

Mean succession of phases at Giessen to the end of 1883; Marlborough and Swaffham to 1884. (1) First blossoms open at various places; (2) first leaf-surface visible, commencement of unfolding of leaves; (3) first fruit ripe (with berries a definite colouring); (4) general (autumn) colouring of the foliage, more than half of all the leaves coloured. Daily observation is necessary, in close proximity to the station:
### INTRODUCTION.

#### Table: First blossoming, Leaves opening, First fruit ripe, Leaves changing.

<table>
<thead>
<tr>
<th>(1) First blossoming</th>
<th>(2) Leaves opening</th>
<th>(3) First fruit ripe</th>
<th>(4) Leaves changing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Month</strong></td>
<td><strong>Swaff. ham.</strong></td>
<td><strong>Giessen.</strong></td>
<td><strong>Swaff. ham.</strong></td>
</tr>
<tr>
<td>** Corylus Avellana (Hazel) **</td>
<td>31 26 412</td>
<td>day. day. day.</td>
<td>day. day. day. day.</td>
</tr>
<tr>
<td>** Aesculus Hippocastanum (Horse-chestnut) **</td>
<td>195 127 192 100</td>
<td>92 100 275 259</td>
<td>259 283</td>
</tr>
<tr>
<td>** Ribes rubrum (Red currant) **</td>
<td>99 100 103 192 107</td>
<td>107 183 171</td>
<td>186</td>
</tr>
<tr>
<td>** Crataegus Oxycantha (Hawthorn) **</td>
<td>108 104 112 108</td>
<td>111 107 103 109</td>
<td>270 186</td>
</tr>
<tr>
<td>** Pyrus communis (Pear) **</td>
<td>108 104 112 108</td>
<td>111 107 103 109</td>
<td>270 186</td>
</tr>
<tr>
<td>** Fagus sylvatica (Com. Beech) **</td>
<td>108 104 112 108</td>
<td>111 107 103 109</td>
<td>270 186</td>
</tr>
<tr>
<td>** Pyrus Malus (Crab-apple) **</td>
<td>108 104 112 108</td>
<td>111 107 103 109</td>
<td>270 186</td>
</tr>
<tr>
<td>** Quercus pedunculata (Oak) **</td>
<td>108 104 112 108</td>
<td>111 107 103 109</td>
<td>270 186</td>
</tr>
<tr>
<td>** Lilium candidum (White garden lily) **</td>
<td>108 104 112 108</td>
<td>111 107 103 109</td>
<td>270 186</td>
</tr>
<tr>
<td>** Syringa vulgaris (Lilac) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Narcissus poeticus (Poet’s Narcissus) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Cornus sanguinea (Dogwood, Cornel) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Vitis vinifera (Grape vine) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Ligustrum vulgare (Privet) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Tilia grandifolia (Lime-tree) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Prunus spinosa (Sloe or Black-thorn) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Prunus avium (Wild cherry or Gean) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Pyrus pyrifolia (Pyrus) aucuparia (Mountain Ash) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Sambucus nigra (Elder) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Secale cereale hibernum (Winter rye) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Atropa Belladonna (Deadly nightshade) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Symphoricarpos racemosus (Snowberry) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Rubus idaeus (Raspberry) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Salvia officinalis (Sage) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Cornus sanguinea (Dogwood, Cornel) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Vitis vinifera (Grape vine) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Ligustrum vulgare (Privet) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Tilia grandifolia (Lime-tree) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Prunus spinosa (Sloe or Black-thorn) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
<tr>
<td>** Prunus avium (Wild cherry or Gean) **</td>
<td>125 123 124</td>
<td>114 115 1246</td>
<td>272 288</td>
</tr>
</tbody>
</table>

**Note.**—a, first anthers; b, pollen discharged; c, d, beech and oak woods green, i.e. general opening of leaves; e, beginning of harvest; f, fruit yellow-red on section, seeds brown.
INTRODUCTION.

PHENOLOGICAL OBSERVATION AT WINTER HEALTH RESORTS.

One of the most delightful and interesting occupations of invalids who are driven from home by the severity or changeableness of our winter climate, whether it be to the shores of the Mediterranean or elsewhere, is to observe the condition of the vegetation about their temporary residence. But for this purpose our European flora is not sufficient, and we must add to the list of plants recommended by the Pheno- logical Committee, or by Dr. Hoffmann, others which have a wider distribution, either naturally or artificially, from their ornamental or economic uses—such plants and trees as the American Aloe, the Japanese Camellia, the African Date-palm, the Asiatic Orange, and the Australian Gum-tree. Our interest moreover in such plants, when observed from a climatic point of view, is not confined to the phases referred to in the pages of the Diary, as we know that many trees and plants will survive and often grow vigorously in a climate which is not favourable to their blossoming, while others will blossom freely but not ripen their fruit; and these are phases which should be recorded in addition to those already indicated.

The following list of trees and plants constructed from a considerable personal knowledge of all the shores of the Mediterranean, may be employed to supplement Dr. Hoffmann's list (page xxiii.), and it will of course apply to any similar regions north of the equator, and inversely to those which lie south of it. The list is arranged in columns to serve as an index, as the names of the plants, &c., are not included in the general index.

Adam's Needle (Yucca gloriosa).
Almond (Amygdalus communis).
Aloe, American (Aloe Americana).
Bamboo (Bambusa vulgaris).
Banana (Musa sapientum).
Camellia (C. japonica).
Fig-tree (Ficus carica).
Gum-tree (Eucalyptus globulus).
Juniper (Juniperus communis).
Lemon (Citrus Limonum).
Maiden-hair fern (Adiantum capellis- 

Magnolia (M. grandifolia).
Maize.
Myrtle (Myrtus communis).
Oleander (Narum oleander).
Olive (Olea Europae).
Opunta (O. ficus-indica).
Orange, sweet (Citrus aurantium).
Palm, dwarf European (Chamaerops 
humilis).
Pomegranate (Punica granatum).
Pine (Vitis vinifera).

INSECT PESTS.

The following is a list of the insects recommended by Miss Ormerod to be observed for her Reports to the Royal Agricultural Society on insects injurious to field, garden, fruit and timber trees, and crops; and of the insects injurious to hop, corn, grass, pea, bean, and clover crops, described by Mr. C. Whitehead, F.L.S., in his Reports (Nos. I. and II.) to the Agri- cultural Department, Privy Council Office. The names are arranged
INTRODUCTION.

alphabetically for use as an index. The names following the numbers refer to the pages of the Diary where the insects are entered.

<table>
<thead>
<tr>
<th>Aphid, bean (Aphis rumicis)</th>
<th>Moth, turnip (Dart M.) 187</th>
</tr>
</thead>
<tbody>
<tr>
<td>turnip (&quot;Rapa&quot;)</td>
<td>goat, 212</td>
</tr>
<tr>
<td>wheat (&quot;granaria&quot;)</td>
<td>leopard, 249</td>
</tr>
<tr>
<td>hop (&quot;humuli&quot;) 112</td>
<td>lackey, 206</td>
</tr>
<tr>
<td>small ermine (Hyponomeuta padellus)</td>
<td>small ermine (Hyponomeuta padellus)</td>
</tr>
<tr>
<td>corn (Trogositac mauritanica)</td>
<td>large magpie, 191</td>
</tr>
<tr>
<td>pea and bean (Bruchus pisi, B. granarius)</td>
<td>otter or ghost, 175</td>
</tr>
<tr>
<td>Bug, hop or plant, 153</td>
<td>antler (Charaeas graminis)</td>
</tr>
<tr>
<td>Butterfly, cabbage, 176</td>
<td>wolf (Tinea granella)</td>
</tr>
<tr>
<td>Cockchafer (Melolontha vulgaris)</td>
<td>pea (Grapholitha pisana)</td>
</tr>
<tr>
<td>small Chafer (Anisoplia horti-</td>
<td>Purples, see Ear Cockle</td>
</tr>
<tr>
<td>colis)</td>
<td>Saw-fly, turnip (Athalia spinarum)</td>
</tr>
<tr>
<td>Ear Cockle Worm (Vibrio (Tylenchus) tritici)</td>
<td>small (Cephus ptygmaeus)</td>
</tr>
<tr>
<td>Flea, hop, 105</td>
<td>gooseberry (Nematus Ribesi)</td>
</tr>
<tr>
<td>Fly, crane (Tiphula oleracea), spotted crane (Tiphula maculosa), onion (Anthomyia ceparium), celery (Tephritis onopordini), carrot (Psila Rosae), turnip (Phyllostreta undulata), corn (Chlorops taniopus), hop cone, 258, Frit (Oscinis vastator)</td>
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<td>Tortix pine-bud (Retinia turionana)</td>
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<td>Weevil, black (Otiorrhynchos sulecatus)</td>
<td>... pea and bean (Sitones lineatus)</td>
</tr>
<tr>
<td>... apple (Anthonomus pomorum), fir (Hylophus abietis), corn (Calandra granaria), clover (Apion Africans), Duch (Apion flavipes)</td>
<td>... Vegetable (Psylliodes attenuatus)</td>
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A careful and systematic inquiry into the food-plants of the larvae of different genera of butterflies and moths is desirable, and it will probably be found that each genera, although able to survive on many different kinds of plants, is identified with certain natural orders, e.g., Pieris with Cruciferae, Argynnis with Violaceae, Vanessa with Urticaceae, &c., or with orders which stand nearest to them. The key of this line of investigation will probably be found in the relation which the mature insects bear to the colour, shape, and other characters of the flowers, &c., of the plants and trees on which their larvae feed, as they are generally found in the neighbourhood of such plants. Here, again, is another interesting subject for investigation—the relation of mature insects to flowers and their fertilizations—which remains to be worked out in detail on the lines laid down by Darwin, Lubbock, and other naturalists.
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FISH. REPTILES.

A section of the Diary is set apart for recording observations on fishes and reptiles, and the names of our ordinary British varieties are given in the general index. A few recorded observations are also introduced into the pages of the Diary from Gilbert White's Diary to serve as centres for further records, but these almost entirely refer to reptiles.

The invention of fresh and sea-water aquaria has made the study of the habits of fishes and similar organisms easy and popular, while the recent Fisheries' Exhibition and the biological stations on our coasts have given a great impetus to such investigations under natural conditions by naturalists and fishermen. The migrations, spawning, and hibernation of fishes, are periodic phenomena of the same character as those displayed by other organisms, and should be studied side by side with them and with the changes of the seasons and physical phenomena with which they are associated. The culture and acclimatization of fishes in our rivers, lakes, and ponds, is a subject of great scientific interest and economic importance; and though its practice is still limited in extent, it is one which is simple and easy of application.

Fish-hatching is carried on indoors, between the beginning of December and the end of March, by means of long narrow boxes (3 feet long, 7 inches wide, and 3½ inches deep, fitted with a dark cover), the bottoms of which are covered with half an inch of clean, roughish gravel, and over which a gentle stream of cold clean water is kept constantly flowing. The eggs, which can be purchased from regular dealers, after being cleansed from moss and other packing, are spread out on the gravel (from two to three thousand in a box of the above dimensions), and the cover placed over them to protect them from the light. At this stage, Frank Buckland's advice is "to do nothing at all," except remove the dead eggs every morning by means of a glass tube or pipette. Live eggs are sufficiently transparent for the eyes of the young fish to be just visible, and the vibratory motion of the tail to be distinguished; but dead eggs become white and opaque, and can therefore be easily recognized. When the young fish are hatched the stream of water must be increased, but otherwise "let them alone." The most important thing to attend to at this stage is to keep the water cold (by the use of ice if necessary), say down to 42° F., as warmth is very destructive to young fish; and all dead fish must be removed from the boxes. Some pieces of slate, under which the young fish may take shelter from the light, should be placed in the boxes. Later, when the bag of food with which the young are provided at their birth is about half absorbed, the fish must be fed with the roe of soles (boiled and broken up), or, as Buckland recommends, on small red mud-worms obtained from the bed of the Thames, and sold by Mr. Newman, of 32, Thanet Street, W.C. In spring the fry must be turned out in shallow streams, or further protected in "fish nurseries," until they are large enough to be turned direct in to rivers and lakes.
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For further information on this subject see the Appendix to Buckland's "Natural History of British Fishes" (S.P.C.K.), from which the above details have been taken. The original article is, however, singularly wanting in scientific precision. There is no statement of the time occupied by the various stages of fish-hatching and rearing; and although great stress is laid on the necessity for keeping a daily register of the temperature of the water, the temperature at which it should be kept is not stated. All these are points on which careful observation is required if fish-culture is to become a profitable industry.

MIGRATION OF BIRDS.

The migration of birds is chiefly a question of food supply, and it is therefore correlated to insect and vegetable life, and through them to meteorological conditions. It is not peculiar to either hemisphere, and has no necessary relation to the physical disposition of land and water. It is not confined to any family of birds, nor are all the individuals of one species migratory or non-migratory. British birds may be divided into four groups, according to the extent and nature of their migrations. (1) Birds which spend the summer and breed in this country, such as the swallow, nightingale, and the cuckoo, and which we are accustomed to speak of as summer visitors, but which may be said to be native birds which leave the country at the approach of winter. These birds have long wings and soft beaks, and feed chiefly on mature insects; they breed in the coldest part of their migration, which in our hemisphere is the most northern point. (2) Birds which have no fixed breeding-place and winter wherever they may be driven, such as the fieldfare, redwing, waxwing, and a great variety of wildfowl. "These," says Mr. Seebohm, "will always be found hovering on the outskirts of the frost. A heavy fall of snow will drive them south, only to return the moment the weather becomes less rigorous." (3) Birds which are true "birds of passage" and simply traverse our country, or pass along our shores in the autumn on their way to southern latitudes; and in the spring on their return to their northern breeding-places or "homes." Some of the routes of these birds have been supposed to be ancient coast-lines along which they formerly used to travel; others for generation after generation having since followed the identical track although the land has long since disappeared. (4) Birds which have no migratory instincts, such as the sparrow, rook, and other thick-billed birds which live chiefly on seeds, worms, and moluscs; and the redbreast, hedge-sparrow, lark, and golden-crested wren, with softer beaks, whose food consists principally of the eggs and larvae of insects. Some of these birds, however, are driven to or from our shores by stress of winter weather, and large flocks of chaffinches, larks, hedge-sparrows, jays, &c., are seen at various times in the island of Heligoland and elsewhere, under these conditions.

The migrations of our summer birds, Mr. Seebohm tells us, take place
with a favourable wind, the birds preferring what is called a "beam" wind, and for which they will wait for many days, and the moment it arrives, with a common impulse, they will start on their journey. True migratory birds generally depart in the following order, but they do not invariably travel in flocks. The lead is taken in the first week by all the spring birds, in the second week the males follow, in the third the females, the last batch being composed of the maimed and crippled birds. A Committee of the British Association is at present engaged in investigating the subject of the migrations of birds, and it has already published several interesting interim reports.

Closely connected with the subject of migration, and equally deserving of systematic observation, is the congregation or flocking of birds in the autumn and winter months, as it is probably correlated with hibernation of fishes and reptiles. Referring to this subject, Gilbert White says, "As these animals are actuated by instinct to hunt for necessary food, they should not, one would suppose, crowd together in pursuit of sustenance at a time when it is most likely to fail; yet such associations do take place in hard weather chiefly, and thicken as the severity increases. As some kind of self-interest and self-defence is no doubt the motive for the proceeding, may it not arise from the helplessness of their state in such rigorous seasons?" And he thinks the flocking of different species in the autumn, such as rooks and starlings, may be due to the greater skill of one species for finding food.

ANIMALS.

Our native wild animals are few in number, and as they are nearly all of them looked on as pests or vermin, they are rarely seen. The section of the Diary set apart for observations on animals will, however, be available for recording facts relating to our domesticated animals, whether on the farm, the hearth, or the kennel, and a list of all our common animals is included in the general index for this purpose.

METEOROLOGICAL OBSERVATIONS.

The whole of the meteorological data refer to the twenty years 1865–84, and was collected at Marlborough under the usual conditions, and the averages have been worked out from the original observations. The average mean, maximum, and minimum temperatures are given for each day of the year; and the accumulated temperatures above 42° for each day of the year, counting from 1st January. The mean barometrical pressure is given for each month, and is repeated every day of the month. The rainfall and the number of days on which rain fell are given for each month (and after being distributed equally over each day of the month) for every day: the accumulated rainfall is given for each day of the year, counting from 1st January. The mean relative humidity is added to this latter entry. In Leap Year the accumulated temperature and rainfall are
added to the 28th of February. The following instructions for calculating the mean and the accumulated temperatures are taken from the Weekly Weather Reports of the Royal Meteorological Society:

Daily mean temperature. This is not the simple arithmetical mean between the daily maximum and minimum in the shade, but is calculated from these by the following method: "The approximate mean daily temperature is found by multiplying the difference between the observed maximum and minimum by the proper co-efficient, shown in the following table, and adding the product to the observed minimum."

<table>
<thead>
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<th>January, April, May, August, June, July</th>
<th>February, March, September, October, November, December</th>
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<tr>
<td>0.520</td>
<td>0.500</td>
</tr>
<tr>
<td>0.485</td>
<td>0.476</td>
</tr>
<tr>
<td>0.470</td>
<td>0.465</td>
</tr>
</tbody>
</table>

Accumulated temperature. This is designed to give persons engaged in agriculture and horticulture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the usual readings of the thermometer. It shows for the day, and for the whole period from the 1st of January, the daily and progressive values respectively of the combined amount and duration of the excess or defect of the air temperature above the base temperature of 42° F., the temperature at which vegetation is said to be stationary, and above which growth and ripening of crops &c. is effected in European climate.

The accumulated temperature is expressed in Day-degrees; a day-degrees signifying 1° F. of excess or defect of temperature above or below 42° F. continued for twenty-four hours, or any other number of degrees for an inversely proportional number of hours. It has been ascertained by calculation from a considerable series of hourly observations at various places, that the accumulated temperature may be computed, with a very tolerable approximation to the truth, from the observed daily maximum and minimum temperatures alone. 'When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature gives the correct accumulated temperature. In other cases this difference gives a value which does not depart greatly from the truth, the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and the minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base (42°) will give directly a fair approximation to the accumulated temperature for the day.

The following rules will supply a close approximation to the true values sought, and have been adopted in the preparation of the table in the Weekly Weather Report. They may be applied to any other base tem-
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perature as well as to $42^\circ$ F., with the slight modification of the numerical coefficients mentioned in the last rule.

Rules for Computing the Accumulated Temperature above or below $42^\circ$ F. from the Observed Maximum and Minimum.

1. Multiply the difference between the maximum and minimum by the proper coefficient for the month shown in Section II. (see above), and the result will be the difference between the mean temperature for the day and the minimum.

2. Then the accumulated temperature will be obtained as follows:

<table>
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<th>Accumulated Temperature.</th>
</tr>
</thead>
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<tr>
<td></td>
<td>Above $42^\circ$ F.</td>
</tr>
<tr>
<td>If the minimum is above $42^\circ$ F., or equal to $42^\circ$ F.</td>
<td>Add to the difference between the mean for the day and the minimum the excess of the minimum over $42^\circ$ F.; or subtract $42^\circ$ F. from the mean for the day.</td>
</tr>
<tr>
<td>If the minimum is below $42^\circ$ F., but the mean for the day is above $42^\circ$ F.</td>
<td>From the difference between the mean for the day and the minimum deduct the accumulated temperature below $42^\circ$ F.</td>
</tr>
<tr>
<td>If the mean for the day is below $42^\circ$ F., but the maximum is above $42^\circ$ F.</td>
<td>Four-tenths of the excess of the maximum over $42^\circ$ F. (16).</td>
</tr>
<tr>
<td>If the maximum is below $42^\circ$ F., or equal to $42^\circ$ F.</td>
<td>None.</td>
</tr>
</tbody>
</table>

3. The quantities thus obtained must be multiplied by the number of days in the period, that is by 7 for a weekly period.

4. If the base temperature be $32^\circ$ F. or $42^\circ$ F., the multiplier in Rule 2 for a weekly period is four-tenths; if $50^\circ$ F. it is 0.33; if $62^\circ$ F. it is 0.25.

A full explanation of these rules will be found in Appendix II. to the Quarterly Weather Report for 1878.

Accumulated rainfall. Local variations in climate are very largely dependent on differences of rainfall. A striking example of this is found in Skye on the west and the Leith of Moray on the east coast of Scotland, at a distance of 70 or 80 miles apart, but in the same latitude. The mean temperature of these two regions in no month of the year differs so much as two degrees, and for several of the months they are nearly identical,
but in Skye the rainfall rises to and sometimes exceeds 100 inches, while on the shore of the Frith of Moray it is only about 26 inches. This difference in the rainfall, with the clear skies and bright sunshine which result from it, makes the eastern station one of the earliest and finest grain-producing districts in Scotland, while in Skye cereals cannot be cultivated profitably. A similar but less marked difference is found on the southeast coast of England, where on the Downs and the districts north of them there is a rainfall exceeding 30 inches, while on the strip of coast from Dover to the Isle of Wight the rainfall is below that amount.

The influence of rainfall in producing local variations of climate has not been taken into account by Dr. Hoffmann or the Phenological Committee of the Meteorological Society in the preparation of their schemes of observation, and I have therefore worked it out in a manner which will best show the part it plays in modifying the climate, as well as in supplying the moisture necessary to the growth of plants. The rainfall for each day has been obtained by dividing the rainfall for each month equally over all the days of the month; and the accumulated rainfall is the sum of these daily estimates for every day of the year, counting from the 1st of January. The humidity of the atmosphere is also an important factor in the production of local climates and in the growth of vegetation, and it has therefore been included in the monthly meteorological tables.

EXPLANATIONS.

The Diary consists of 365 pages, or one page for each day of the year, and the number of the page corresponds with the number of the day counting from 1st January.

The ordinary figures (e.g., 1, 2, 3, 4, &c.) refer to the day and also to the page, and the Roman numerals (e.g., I., II., III., IV., &c.) to the months.

The blank spaces opposite the printed matter are for new entries referring to the plants, insects, birds, &c., already entered in the Diary, and the blank spaces between the different sections or headings for entries of entirely new observations. For greater convenience of statistical treatment and to economize space, new entries should be made in the day of the year rather than the day of the month, and a table is given on the last page of the index to facilitate this mode of entry.

For explanations of the meteorological observations see page xxviii.

The entries relating to plants and insects are made twice. The first entry under the heading LOOK FOR is the date of the earliest appearance of flowers and insects during the past twenty years. This entry is introduced as a warning that the flowers and insects may be expected to appear on or after that date in climates similar to that of Marlborough. The number after this entry shows the page at which the second and principal entry will be found. The second entry shows the average time
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of the appearance of the object, the two sets of figures following the
scientific name indicating the range of dates from which the average is
deduced. It is opposite this entry that new observations referring to the
same objects are to be placed, whether they occur on the same day or not.
The various headings suggest new subjects for inquiry on a systematic
plan, and the spaces between them are to be used for this purpose.

To ensure uniform results the following rules must be observed:—

Daily observation is necessary within a definite area.
Meterological observations are to be made according to the regulations
of the Royal Meteorological Society.
Plants and trees blossoming—i.e., first blossoms open at several
places in the natural habitat of the plant.
" surviving—flowers surviving from a previous season. This
term might also be used to signify the period during which
plants and trees continue in blossom, but if used for this pur-
pose it must be stated with each entry.
" premature—unseasonable blossoming, such as the flowering of
primroses, violets, gorse, fruit trees, horse-chestnut, &c., in
the autumn.
" second blossoming—some of our flowers and trees, such as the
honeysuckle, often blossom twice a year.
Trees, &c., leafing—first leaf-surface visible, the beginning of the un-
folding of the leaves.
Seeds germinating—the first appearance of the plant above the ground.
Fruit ripening—first fruit ripe; with berries definite colouring.
Leaves changing—half the leaves changed and half green, or general
autumn colouring. (Dr. Hoffman says "more" than half the leaves
changed in colour, but this is such an indefinite term that no uniform
results can be expected from it.)
Leaves falling—beginning of the natural defoliation of trees.
The character of the observations to be made on insects, birds, and
animals, are sufficiently indicated by the various headings on the
pages of the Diary.
G. W. = Gilbert White.
C. W. = Charles Whitehead.

INSTRUCTIONS.—When it is desired to record an observation in the
Diary, turn to the index and see if the object to which it refers is already
entered. If it be, turn to the page and enter the new observation in the
blank space opposite to the printed entry; but if it be not, turn to the
day on which the observation is made and enter the object under its
proper heading, and do not fail to enter the number of the page in the
index for future reference.
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(a) **Butterflies and Moths.**

The Genera are those of Stephens, Stainton, and other British Lepidopterists. The figures preceding the names are the pages in "The Entomologist" synonymic list of British Lepidoptera (genera, species and varieties) compiled by Richard South. (London: West, Newman & Co. 1884.) The figures following the names refer to the pages of the Diary.

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When used as a *Journal*, the following particulars should be furnished by the observer. They are necessary to the proper understanding of the data collected, and for comparison with other records of a similar kind. For the manner of filling up see page xvii.

Place:  
Longitude: ; Latitude:  
Area of observation:  
Geology  
- surface:  
- subsoil:  
Elevation above sea:  
Distance from the sea:  
Natural features:  
Works of reference to locality:  
Extreme meteorological conditions during the year 18  
Barometer, highest reading  
... lowest ...  
Max. Temp. in sun  
... in shade  
Min. Temp. in shade  
... on grass  
Rain, amount collected  
No. of rainy days  
Signature of observer  
Date of commencement of Journal
Temperature, mean..........................37°8

,, max. in sun ..................55.3
,, ,, shade ..................43.1
,, min., shade ..................31.9
,, on grass ..................28.7
,, accum. above 42° since 1st Jan. 2.1
,, since 1st January 2.1

Barometer (mean, Mo. 1, 29.98) in.

Rainfall: since 1st January, 0.115 in.

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

_Urtica Urens_ 1-365, Small British Nettle.

_Waste places_ ..........................

_Poa annua_ 1-365, Com. Meadow Grass.

_Waste places_ ..........................

**LOOK FOR** Com. Chickweed 3, Groundsel 4, Grey Field Speedwell 7, Red and White Dead-nettle 9, 10, Buxbaum's Speedwell 8.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Redbreast sings (G. W.) 80 ..............

Animals: seen, breeding, &c.

Shooting, Fishing, Sports. Dog and Gun licenses to be taken out.

Pheasant ..........................
Partridge ..........................
Snipe, &c. ..........................
Woodcock ..........................
Wildfowl ..........................
Hares ..........................
Rabbits ..........................

Coarse fish .........................
Temperature, mean.................. 38°7
   max. in sun .................. 55°6
   "  "  " shade .................. 44°4
   min.  "  " shade .................. 33°3
   "  " on grass.................. 28°2
   accumltd. above 42° day-degs.  2°6.
   "  "  " since 1st January  4°7

Barometer (mean, Mo. i, 29'98) in.
   Mo. i, 3'55 in. on 17 days
Rainfall  since 1st January, o'23 in.
   mean rel. humidity 92 %

Wind, direction, &c. ................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Daphne  Mezerem  360-40, Mezereon,
Dwarf Bay, Spurge-flux, Spurge Laurel,
Mysterious plant.  Woods ................

LOOK FOR Com. Daisy 39, Dandelion
31, Gorse, Whin or Furze 43, Primrose
74, Sun-spurge 5, Winter Aconite 23.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

Fish.  Reptiles.

Birds: migration, song, nesting, &c.
Missel Thrush sings (G. W.) 73 ............

Animals: seen, breeding, &c.

Pheasant ................................
Partridge ................................
Snipe, &c................................
Woodcock ................................
Wildfowl ................................
Hares ...................................
Rabbits ..................................

Coarse fish .............................
Temperature, mean..................39°6

,, max. in sun ................62°5
,, ,, shade .................45°8
,, min. ,, shade ...........34°4
,, on grass .............28°7
,, accumltd. above 42° day-degs. 3°3
,, since 1st January 8°0
Barometer (mean, Mo. i, 29'98) in.
Mo. i, 3'55 in. on 17 days
Rainfall { since 1st January, 0'345 in. \[115 in.
mean rel. humidity 92 %}

Wind, direction, &c. 
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Stellaria Media (all the year), Com. Chickweed. Hedges
LOOK FOR Small Celandine 38.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant .................................. Partridge .................................. Snipe, &c. .................................. Woodcock .................................. Wildfowl .................................. Hares .................................. Rabbits ..................................

Coarse fish ..................................
Temperature, mean .......................... 38°8

,, max. in sun ................. 60°6

,, ,, shade .................. 43°7

,, min. ,, shade ............. 34°1

,, on grass ................. 29°1

,, accum. above 42° day-degs. 2°7

,, since 1st January 1°7

Barometer (mean, Mo. I., 29-98) in.

Mo. i, 3°55 in. on 17 days

Rainfall since 1st January, 0°46 in.

mean rel. humidity 92 %

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Matricaria Inodora 1-81, May-weed, Dog-gowan. Fields, waste places ..

Senecio vulgaris 1°, Com. Groundsel.

Waste places .................................

LOOK FOR Dog's Mercury 45.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ........................................
Partridge ....................................
Snipe, &c. ...................................
Woodcock ....................................
Wildfowl ....................................
Hares ........................................
Rabbits ......................................

Coarse fish .................................
Temperature, mean .......................... 39° 1

" max. in sun .......................... 55° 7

" " shade .......................... 45° 6

" min. " shade .......................... 33° 8

" on grass .......................... 29' 4

" accumltd. above 42° day-degs. 2' 3

since 1st January 13° 0

Barometer (mean, Mo. 1, 29' 98) in.

(Mo. 1, 3' 55 in. on 17 days)

Rainfall since 1st January, 0' 375 in. 115 in.

(mean rel. humidity 92 %)

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Euphorbia Helioscopia, Sun-spurge,

Wart-wort, Cat's milk, Churn-staff.

Waste ground ..........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Hedge-sparrow sings (G. W.) 83 ..........................

Animals: seen, breeding, &c.


Pheasant ........................................

Partridge ........................................

Snipe, &c. ........................................

Woodcock ........................................

Wildfowl ........................................

Hares ........................................

Rabbits ........................................

Coarse fish ....................................
6-359, Mo. I., JANY. 6, 188.

Temperature, mean..........................38°3

   max. in sun ..................56°8

   min. ..... , shade .............44°3

   min. ..... , shade .............33°2

   on grass ..................28°7

   accumltd. above 42° day-degs. 2°4

Barometer (mean, Mo. I., 29°98) in.

Rainfall 

   since 1st January 15°4

   mean rel. humidity 92 %

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms


Fields and banks ........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Honey-bee (Aphis mellifica) appears (G. W.)

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Common Thrush sings (G. W.) 70 ........

Greater Titmouse sings (G. W.) 92 ........

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.

Pheasant ........................................

Partridge ....................................

Snipe, &c. ..................................

Woodcock .....................................

Wildfowl .....................................

Hares ........................................

Rabbits ......................................

Coarse fish .................................
Temperature, mean..........................37°9
   max. in sun ....................57°5
   " " " shade ....................42°9
   " " min. " shade ................33°5
   " " on grass ...................29°1
   " accum. ltd. above 42° day-degs. 1°4
   " since 1st January 16°8
Barometer (mean, Mo. 1, 29°98) in.
   Mo. 1, 3°55 in. on 17 days
Rainfall. since 1st January, 0°99 in.
   mean rel. humidity 92%}
Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
    Veronica Polita 1, Grey Field Speed-well. Waste places..................
    LOOK FOR Spurge Laurel 37, Butter Bur 48.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

    Pheasant .............................................
    Partridge ..........................................
    Snipe, &c...........................................
    Woodcock ...........................................
    Woodfowl ...........................................
    Hares ...............................................
    Rabbits ............................................
    Coarse fish........................................
Temperature, mean ..........................38°2
,, max. in sun ..............................53'8
,, ,, shade .................................42'9
,, min. ,, shade ..............................33'9
,, on grass .................................29'5
,, accumltd. above 42° day-degs. 1'9
,, since 1st January 18'7

Barometer (mean, Mo. 1, 29'98) ........................... in.
Rainfall since 1st January, 0'92 in. 115 in.

Wind, direction, &c. .................................
Fruits and Trees blossoming; note if surviving, premature, or 2nd blossomings
Veronica Buxbaumii 1., Buxbaum’s Speedwell. Fields .................................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Winter Moth 36 and 325.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ........................................
Partridge ........................................
Snipe, &c. ......................................
Woodcock ........................................
Wildfowl ........................................
Hares ...........................................
Rabbits ........................................

Coarse fish ......................................
Temperature, mean .................. 37.7

,, max. in sun .................. 56.4

,, ,, ,, shade .................. 41.7

,, min. ,, shade .................. 34.3

,, on grass .................. 29.3

,, accum. above 42° day-degs. 2.1

,, ,, since 1st January 20.8

Barometer (mean Mo. i, 29.98) in.

Rainfall \{ Mo. i, 3.55 in. on 17 days since 1st January, 1.035 in. \}

mean rel. humidity 92 %

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings Lamium Purpureum 1.365, Red Dead- nettle. Waste places ..........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Lambs begin to fall (G. W.) ..............


Pheasant ..........................

Partridge ..........................

Snipe, &c. ..........................

Woodcock ..........................

Wildfowl ..........................

Hares ..........................

Rabbits ..........................

Coarse fish ..........................
10-355, Mo. I., JANY. 10, 188

Temperature, mean..........................37°.2

" max. in sun ..................52°6

"  " shade..................41°5

" min. in shade ..................33°1

" on grass..................29°0

" accumuln. above 42° day-degs 1.4

since 1st January 22°2

Barometer (mean Mo. i, 29°98) in.

(Mo. i, 3°55 in. on 17 days)

Rainfall since 1st January, r.15 in. 1.115 in.

mean rel. humidity 92%.

Wind, direction, &c. .........................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoms:

Lamium Album 1, White Dead-nettle,
Blind-nettle, Dumb-nettle, Bee-nettle.

Waste places ..................................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ........................................
Partridge ........................................
Snipe, &c. ........................................
Woodcock ........................................
Wildfowl ........................................
Hares ...........................................
Rabbits ........................................

Coarse fish .................................
JANY. 11.

Temperature, mean 35°9
   max. in sun 55°5
   "  "  "  shade 40°7
   "  "  "  min. 32°2
   "  "  "  on grass 27°8
   accum. above 42° day-degs. 1°2
since 1st January 23'4
Barometer (mean, Mo. i, 29°98) in.
   Mo. i, 3'55 in. on 17 days
Rainfall (since 1st January, 1'265 in.) 1'15 in.
   mean rel. humidity 92%.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings.

LOOK FOR Snowdrop 28, Shepherd's Purse 89.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

   Pheasant ..........................................
   Partridge ........................................
   Snipe, &c. ........................................
   Woodcock ........................................
   Wildfowl ........................................
   Hares ...........................................
   Rabbits ........................................
   Coarse fish .....................................
Temperature, mean..........................35°7
        "       max. in sun ..............54°8
        "       " shade ...............40°8
        "       min. in shade ..........30°8
        "       on grass ..............26°4
        "       accumltd. above 42° day-degs. 1'1
        "       since 1st January 24'5
Barometer (mean, Mo. I, 29°98) in.
          {Mo. I, 3°55 in. on 17 days}
Rainfall  since 1st January, 1'38 in. .115 in.
          {mean rel. humidity 92°/o}
Wind, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Lesser Pimpernel 54.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ......................................
Partridge ..................................
Snipe, &c. ................................
Woodcock ................................
Wildfowl ................................
Hares .....................................
Rabbits ...................................

Coarse fish .................................
Temperature, mean .................. 36°8

,, max. in sun .................. 54°9

,, ,, shade .................. 43°0

,, min. in shade .................. 30°2

,, ,, on grass .................. 27°1

,, accumltd. above 42° day-degs. 1°5

,, since 1st January 26°0

Barometer (mean, Mo. i, 29°98) in.

(Mo. i, 3°35 in. on 17 days)

Rainfall: since 1st January, 1°495 in. 115 in.

(mean rel. humidity 92%)

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

LOOK FOR Peacock B. 77 and 203.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ..........................................
Partridge ........................................
Snipe, &c. ......................................
Woodcock .....................................
Wildfowl ...................................
Hares ........................................
Rabbits ......................................

Coarse fish .................................
14-351, Mo. I., JANY. 14, 188.

Temperature, mean .................. 39°6

,, max. in sun .................. 60°2

,, ,, shade .................. 44°3

,, min. ,, shade .................. 30°8

,, on grass .................. 32°0

,, accumltd. above 42° day-degs. 2°5

,, since 1st January 28°5

Barometer (mean, Mo. I, 29°98) in.

Rainfall since 1st January, 1°61 in.

Wind, direction, &c. ..............................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Marsh Marigold 65.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant
Partridge
Snipe, &c.
Woodcock
Wildfowl
Hares
Rabbits
Coarse Fish
Temperature, mean..................38°2
          "  max. in sun ..............63'3
          "  "  "  shade ..................43'7
          "  min. "  "  shade ..............33'5
          "  "  on grass ...............29'6
          "  accumltd. above 42° day-degs. 2'6
          "  "  since 1st January 31°1
Barometer (mean, Mo. 1, 29'98)  in.
          { Mo. 1, 3'55 in. on 17 days
Rainfall  since 1st January, 1'725 in.
          { mean rel. humidity 92%}
Wind, direction, &c. ...................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossonings
LOOK FOR Hazel 31.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.
LOOK FOR Herald Moth 78 and 259.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ...................................
Partridge ...................................
Snipe, &c. ...................................
Woodcock ...................................
Wildfowl ...................................
Hares ......................................
Rabbits ...................................
Coarse fish................................
Temperature, mean ....................... 38°6
   ,,   max. in sun .................. 60°7
   ,,   ,, shade ................. 44°3
   ,,   min. ,, shade .......... 33°9
   ,,   on grass ................. 29°3
   ,,   accum. above 42° day-degs. 2°3
since 1st January  33°4
Barometer (mean, Mo. 1, 29°98) in.
   Mo. 1, 3°55 in. on 17 days
Rainfall since 1st January, 2°84 in. 11°5 in.
   mean rel. humidity 92 %
Wind, direction, &c. ..........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.
Com. Bat or Flitter-mouse (Vesperilio pipistrellus) appears (G. W.) ..............

  Pheasant ..................................
  Partridge ................................
  Snipe, &c. ................................
  Woodcock ................................
  Wildfowl ................................
  Hares ...................................
  Rabbits ................................
  Coarse fish .............................
Temperature, mean........................38°5
  "     max. in sun ................57°9
  "     " shade ................44°1
  "     min. " shade ..............33°5
  " on grass ................29°2

  " accumltd. above 42° day-degs. 2°8
  "     since 1st January 36°2
Barometer (mean, Mo. i, 29°98) in.
  Mo. i, 3°55 in. on 17 days
Rainfall - since 1st January, 1°955 in. 115 in.

Wind, direction, &c. 

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Blackbird sings (G.W.) 78 ......................
Com. Wren sings (G.W.) 119 ....................

Animals: seen, breeding, &c.

Pheasant ........................................
Partridge ......................................
Snipe, &c. ...................................
Woodcock .....................................
Wildfowl ......................................
Hares ...........................................
Rabbits .......................................
Temperature, mean.......................... 38°.3

" max. in sun .................. 58°.2

" " shade .................. 43°.5

" min. " shade .................. 33°.7

" on grass .................. 29°.5

" accumltd. above 42° day-degs. 2°.1

since 1st January 38°.3

Barometer (mean, Mo. i, 29°.98) in.

Mo. i, 3°.55 in. on 17 days

Rainfall since 1st January, 2°.07 in. = 115 in.

mean rel. humidity 92 %

Wind, direction, &c. ..................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Hairy Bitter-cress 49, Cow Chervil 90.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant .................................................

Partridge ..............................................

Snipe, &c................................................

Woodcock .............................................

Wildfowl ............................................... 

Hares......................................................

Rabbits .................................................

Coarse fish............................................
Temperature, mean ................. 37°7
       "   max. in sun ............ 55'6
       "   " shade ............. 42'3
       "   min. " shade ......... 33'3
       "   on grass ........... 30'7
       " accum'lt'd. above 42° day-degs. 2'0
       "   since 1st January 40'3
Barometer (mean, Mo. i, 29.98) in.
       Mo. i, 3°55 in. on 17 days
Rainfall (since 1st January, 1°185 in.) 1°15 in.
       mean rel. humidity 92 %
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Green Hellebore 55.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ..................................
Partridge ................................
Snipe, &c. ................................
Woodcock ................................
Wildfowl ................................
Hares ....................................
Rabbits ..................................
Coarse fish ..............................
Temperature, mean .................. 36° 9
    " max. in sun ................ 59° 2
    " min. in shade ............... 41° 9
    " min. on grass .............. 32° 5
    " accumltd. above 42 day-degs. 1° 6
Barometer (mean, Mo. i, 29° 98) in.
    Mo. i, 3° 55 in. on 17 days
Rainfall Since 1st January 41° 9
    Mo. i, 2° 39 in.
    mean rel. humidity 92 %
Wind, direction, &c.
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
LOOK FOR Cornet-tree 46, Whitlow-grass 63.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

    Pheasant ................................
    Partridge .............................
    Snipe, &c. ..............................
    Woodcock ..............................
    Wildfowl ..............................
    Hares ................................
    Rabbits ................................
    Coarse fish ............................
Temperature, mean ................. 35°3

,, max. in sun .................. 62°8
,, ,, ,, shade .................. 41°6
,, min. ,, shade .............. 30°2
,, ,, on grass .................. 26°8

,, accumul. above 42° day-degs. 1°6
,, ,, since 1st January 43°5

Barometer (mean, Mo. i, 29°98) in.

Rainfall {Mo. i, 3°55 in. on 17 days}

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming

Taraxacum officinale 1-365, Dandelion,
Priest's Crown, Swine's-snout, Irish
Daisy, Blow-ball, Canker-wort, Milk
Gowan, Horse Gowan. Waste places...

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
SKYLARK sings (G.W.) 106 ..............

Animals: seen, breeding, &c.

Pheasant ................................
Partridge ................................
Snipe, &c................................
Woodcock..............................
Wildfowl..............................
Hares................................
Rabbits..............................

Coarse fish .........................
Temperature, mean......................34°.7

" max. in sun ...............61.4

" " shade .............40'4

" min. " shade ............30'0

" on grass ...........26'0

,, accumltd. above 42° day-degs. 1'0

,, since 1st January 44.5

Barometer (mean, Mo. i, 29°98) in.

Mo. i, 3°55 in. on 17 days

Rainfall (since 1st January, 2°53 in.

mean rel. humidity 92 %)

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Vernal Squill 54 ..............

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ................................

Partridge ................................

Snipe, &c.................................

Woodcock................................

Wildfowl................................

Hares....................................

Rabbits..................................

Coarse fish.............................
Temperature, mean..........................36°4

" max. in sun ......................62°9

" " shade ..................41°9

" min. " shade .................30°5

" " on grass .................26°7

" accumlted. above 42° day-degs. 1°0

" " since 1st January 44°5

Barometer (mean, Mo. i. 29°98) \text{ in.}

\begin{equation*}
\text{Mo. i, 3'35 in. on 17 days}
\end{equation*}

\begin{equation*}
\text{Rainfall since 1st January, 2'645 in.}
\end{equation*}

Wind, direction, &c. .................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings


Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


\begin{itemize}
  \item Pheasant
  \item Partridge
  \item Snipe, &c.
  \item Woodcock
  \item Wildfowl
  \item Hares
  \item Rabbits
  \item Coarse fish
\end{itemize}
Temperature, mean..........................35°8
  "  max. in sun ..................60°2
  "  "  shade .................41°4
  "  min.  "  shade ...............31°2
  "  on grass .................26°9
  "  accumltd. above 42° day-degs. 1'4
  "  since 1st January 47°5
Barometer (mean, Mo. i, 29°98) in.
  Mo. i, 3°55 in. on 17 days
Rainfall since 1st January, 2°76 in.
  mean rel. humidity 92 %
Wind, direction, &c. .....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Woodlark sing (G.W.) 125 .................
Chaffinch sings (G.W.) 105 .................

Animals: seen, breeding, &c.

Pheasant ......................................
Partridge .....................................
Snipe, &c. ...................................
Woodcock.....................................
Wildfowl......................................
Hares.........................................
Rabbits......................................
Coarse fish .................................
25-340, Mo. I., JANY. 25, 188.

Temperature, mean..........................35°1

,, max. in sun ..................61'2

,, ,, ,, shade ...............40'3

,, min. ,, shade .............30'0

,, ,, on grass ...............25'9

,, accumltd, above 42° day-degs. 0'9

since 1st January 48'4

Barometer (mean, Mo. I., 29'98) in.

Mo. I. 3'55 in. on 17 days

Rainfall, since 1st January, 2'875 in. '115 in.

mean rel. humidity 92%

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Yew tree 49.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ................................
Partridge ................................
Snipe, &c. ................................
Woodcock ................................
Wildfowl ................................
Hares .....................................
Rabbits ...................................

Coarse fish ..............................
Temperature, mean .................................. 34°6

" max. in sun .................................. 60°5

" " shade .................................. 40°8

" min. " shade .................................. 29°4

" on grass .................................. 25°0

" accumltd. above 42° day-degs. 0°3

" since 1st January 48°7

Barometer (mean, Mo. i, 29.98) .................................. in.

Rainfall \[ \begin{array}{l}
\text{Mo. i, 3'55 in. on 17 days} \\
\text{mean rel. humidity 92 \%}
\end{array} \] \ 

Wind, direction, &c. .................................. 

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles,

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ..................................
Partridge ..................................
Snipe, &c. ..................................
Woodcock ..................................
Wildfowl ..................................
Hares ..................................
Rabbits ..................................

Coarse fish ..................................
Temperature, mean .......................... 37° 2

" " max. in sun .......................... 60° 4

" " " " shade .......................... 42° 7

" " min. " shade .......................... 32° 1

" " on grass .......................... 28° 7

" " accumltd. above 42° day-degs. 1' 2

since 1st January 49° 9

Barometer (mean, Mo. I, 29° 98) 115 in.

{ Mo. I, 3° 55 in. on 17 days }

Rainfall: since 1st January, 3' 05 in. 115 in.

{ mean rel. humidity 92% }

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ...........................................
Partridge ...........................................
Snipe, &c. ...........................................
Woodcock .........................................
Wildfowl .......................................... 
Hares ............................................... 
Rabbits ...........................................

Coarse fish ...................................... ...

... ... ...
Temperature, mean.................37°7
      " max. in sun .................66°2
      " " , shade ...............43°1
      " min. , shade ...........32°3
      " on grass ..............29°2

" accumltd. above 42°day-degs. 2'1
since 1st January 52°0

Barometer (mean, Mo. i, 29°98) in.
Mo. i, 3°55 in. on 17 days
Rainfall, since 1st January, 3°22 in. *115 in.
mean rel. humidity 92 %

Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Small Tortoise-shell B. 67.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ........................................
Partridge ....................................
Snipe, &c. ....................................
Woodcock .....................................
Wildfowl .....................................
Hares ........................................
Rabbits ......................................

Coarse fish .................................
29-336, Mo. I., JANY. 29, 188

Temperature, mean..............................38°4

,, max. in sun ....................60°8

,, ,, , shade ...............44°0

,, min. ,, shade ...........33°6

,, ,, on grass ................39°3

,, accumld. above 42° day-degs. 2°4

,, since 1st January 5°4

Barometer (mean, Mo. i., 29°98) in.

Mo. i. 3°35 in. on 17 days

Rainfall (since 1st January, 3°335 in.) 1°15 in.

(mean rel. humidity 90 %)

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Pheasant ........................................

Partridge .................................

Snipe, &c. ............................

Woodcock ................................

Wildfowl ................................

Hares ......................................

Rabbits .................................

Coarse fish .............................
Temperature, mean.........................38°7
      , max. in sun ......................66°3
      , , , , shade ....................44°7
      , , , , min. , shade ..............33°6
      , , , , on grass .................29°4
      , , accum.ltd. above 42° day-degs. 1°7
      , , since 1st January 56°1
Barometer (mean, Mo. i, 29°98) in.
      (Mo. i, 3°55 in. on 17 days)
Rainfall (since 1st January, 3°45 in.) 11°5 in.
      (mean rel. humidity 92%)
Wind, direction, &c. ..........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ........................................
Partridge ......................................
Snipe, &c. ......................................
Woodcock ......................................
Wildfowl ......................................
Hares ..........................................,
Rabbits .......................................

Coarse fish .................................
Temperature, mean ..................39°2
   ," max. in sun ..................63°5
   ," ," shade ..................44°7
   ," min. ," shade ..................34°5
   ," ," on grass ..................30°5
   ," accumltd. above 42°day-degs. 2°3
   ," ," since 1st January 58°4
Barometer (mean, Mo. i, 29°98) in.
   Mo. i, 3°55 in. on 17 days
Rainfall : since 1st January, 3°565 in.
   mean rel. humidity 92 %
Wind, direction, &c. ..................Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Pheasant ................................
Partridge ................................
Snipe, &c................................
Woodcock................................
Wildfowl ................................
Hares ................................
Rabbits ................................
Coarse fish ............................
Temperature, mean ...................... 39°3
   max. in sun .................. 64°8
   ,, shade .................. 45°0
   min. ,, shade ............. 34°8
   on grass .................. 30°8
   accumld. above 42° day-degs. 2°5
   since 1st January 60°9
Barometer (mean, Mo. ii, 29°98)   in.
   Mo. ii, 2°77 in. on 17 days
Rainfall: since 1st January, 3°664 in. 0°99 in.
   mean rel. humidity 91 %
Wind, direction, &c. ................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Barren Strawberry 44.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Pale Brindled Beauty M. 53.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.
Snipe, &c.................................
Woodcock ....................................
Wildfowl ..................................
Hares ......................................
Rabbits ...................................
Coarse fish ...............................
Temperature, mean ........................................ 39°5
  "  max. in sun ............................. 64°9
  "  "  "  shade .................. 45°1
  "  min.  "  "  shade ......... 35°1
  "  "  on grass ................. 30°9
  "  accum. above 42° day-degs.  2°2
  "  "  since 1st January 63°1
Barometer (mean, Mo. ii, 29°98) in.
  Mo. ii, 27°77 in. on 17 days
Rainfall since 1st January, 3763 in.
  mean rel. humidity 91 %
Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c............................................
Woodcock ...........................................
Wildfowl ............................................
Hares ...............................................
Rabbits ............................................
Salmon .............................................
Coarse fish ........................................
Temperature, mean. ..............39°5
,, max. in sun ..............67°4
,, ,, shade ..............45°0
,, min. ,, shade ..............34°9
,, on grass ..............30°3
,, accumltd. above 42° day-degs. 2°

Barometer (mean, Mo. ii, 29°98) in.
Mo. ii, 2°77 in. on 17 days
Rainfall since 1st January, 0°162 in. .099 in.
mean rel. humidity 91 %

Wind, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Coltsfoot 52.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c.................................
Woodcock....................................
Wildfowl ....................................
Hares........................................
Rabbits ....................................
Salmon .....................................
Coarse fish ...............................
Temperature, mean ................. 39°6
    "    max. in sun .............. 69°4
    "    "    shade .............. 45°7
    "    min. "    shade ........... 35°0
    "    "    on grass .......... 30°4
    "    accum. above 42° day-degs. 2°0
    "    "    since 1st January 67°1
Barometer (mean Mo. ii, 29°98) ... in.
    Mo. ii, 29°77 on 17 days
Rainfall  since 1st January, 3°967 in. - 099 in.
    mean rel. humidity 92 %
Wind, direction, &c. ................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ..................................
Woodcock ................................
Wildfowl ................................
Hares ................................
Rabbits ................................
Salmon ................................
Coarse fish ..............................
36-329, Mo. II., FEBY. 5, 188

Temperature, mean .................. 39'1

,, max. in sun ............. 64'6
,, ,, ,, shade .......... 44'6
,, min. ,, shade .......... 34'6
,, ,, on grass .......... 30'6
,, accumltd. above 42° day-degs. 2°
,, since 1st January 69'
Barometer (mean, Mo. II, 29'98) in.
Rainfall; since 1st January, 4'06 in. • 099 in.
\[\begin{array}{l}
\text{mean rel. humidity 91%} \\
\end{array}\]

Wind, direction, &c. ........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
LOOK FOR Wych Elm 66.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Cheimatobia Brumata 8-79, Winter M.
(lar. v. on forest trees) ........................

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ..............................
Woodcock ..............................
Wildfowl ..............................
Hares ..............................
Rabbits ..............................
Salmon ..............................
Coarse fish ............................
Temperature, mean..........................39°4

,, max. in sun .....................67°1
,, ,, ,, shade ...............45°1
,, min. ,, shade .............35°0
,, ,, on grass ...............30°4
,, accumltd. above 42° day-degs. 2'4
,, ,, since 1st January 71°5

Barometer (mean, Mo. ii, 29'98) in.

Mo. ii, 2'77 in. on 17 days
Rainfall since 1st January, 4'159 in.

mean rel. humidity 91 %

Wind, direction, &c...........

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Daphne Laureola 7.65, Spurge Laurel, Copse Laurel, Dwarf Bay. Woods and thickets

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c.................................
Woodcock..............................
Wildfowl..............................
Hares...................................
Rabbits..............................
Salmon.................................
Coarse fish...........................
Temperature, mean .......................... 41° 0

,, max. in sun .............. 68° 6
,, ,, ,, shade ............. 46° 8
,, min. ,, shade ............. 36° 1
,, ,, on grass ............... 31° 2
,, accumul. above 42° day-degs. 2° 9
,, ,, since 1st January 74° 4
Barometer (mean, Mo. ii, 29° 98) in.

Rainfall  
(Mo. ii, 2° 77 in. on 17 days)
since 1st January 4° 258 in. 0° 99 in.
mean rel. humidity 91 %

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
RANUNCULUS FICARIA 3-65, Small Celan-dine, Buttercup, Crow-foot, Pile-wort.
Damp shady places ..........................

Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Rook (Corvus frugilegus) begins to build
66 ..........................................

Animals: seen, breeding, &c.

Snipe, &c. ..................................
Woodcock ..................................
Wildfowl ..................................
Hares ..................................
Rabbits ..................................
Salmon ..................................
Coarse fish ...............................
39-326, Mo. II., FEBY. 8, 188.

Temperature, mean.....................40°2

,, max. in sun ..................68°2

,, ,, shade ..................45°4

,, min. ,, shade .................36°3

,, on grass ..................33°3

,, accumltd. above 42° day-degs. 2'4

Barometer (mean, Mo. ii, 29°98) in.
(Mo. ii, 2°77 in. on 17 days)
Rainfall since 1st January, 4°377 in.
(mean rel. humidity 91 %)

Wind, direction, &c. ..................16

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Bellis perennis r., Com. Daisy, Bairn-wort, Ban-wort, Benner-Gowan, Bone-flower, Bruise-wort, Ewe-Gowan, Herb Margaret, Marguerite, May-Gowan.
Banks, pastures........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c...............................
Woodcock............................
Wildfowl............................
Hares..............................
Rabbits............................
Salmon..............................
Coarse fish.........................
Temperature, mean .......................... 38°7
, , max. in sun .................. 67°9
, , , , , shade ................. 44°0
, , min. , , shade .............. 34°3
, , , , on grass .......... 30°5
, , accumltd. above 42° day-degs. 2°8
, , since 1st January 79°6
Barometer (mean, Mo. ii, 29°98) in.
\{ Mo. ii, 2°77 in. on 17 days \}
Rainfall \{ since 1st January, 4°456 in. \} 5°99 in.
\{ mean rel. humidity 91 % \}
Wind, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Box 69.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Chestnut Moth 76.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ........................................
Woodcock ........................................
Wildfowl ........................................
Hares ............................................
Rabbits ...........................................
Salmon ............................................
Coarse fish .................................
Temperature, mean ...................... 39°3
    ," max. in sun ..................73°6
    ,, ," shade .....................44°7
    ,, min. ," shade ................34°9
    ,, ," on grass ..................30°1
    ,, accumltd. above 42° day-degs. 2°6
    ,, since 1st January 82°2
Barometer (mean, Mo. ii, 29°98) in.
   Mo. ii, 27°77 in. on 17 days
Rainfall { since 1st January, 4°555 in. .099 in.
   mean rel. humidity 97 %
Wind, direction, &c. ........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
[Corylus Avellana, Hazel, Hoffman, Gies.]
31 ........................................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Brimstone Butterfly 62.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ..............................
Woodcock ..............................
Wildfowl ................................
Hares ..................................
Rabbits ................................
Salmon .................................
Coarse fish ..........................
Temperature, mean......................$37^\circ.9$

'' max. in sun ..................$73^\circ.2$

'' '' shade ....................$43^\circ.2$

'' min. '' shade ..................$34^\circ.0$

'' on grass ......................$29^\circ.7$

'' accumltd. above $42^\circ$ day-degs. $1^\circ.9$

since 1st January $84^\circ.1$

Barometer (mean, Mo. II, $29^\circ.98$) in.

Rainfall  \quad \text{since 1st January, $4.654$ in.} \quad \text{in.}

Wind, direction, &c. .................. \%

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Daffodil 61, Anemone 67.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Snipe, &c..................................

Woodcock..................................

Wildfowl.................................

Hares.....................................

Rabbits...................................

Salmon.................................

Coarse fish.............................
Temperature, mean..................37°6

,, max. in sun ....................74°0

,, ,, ,, shade ....................44'4

,, min. ,, shade..................32'1

,, ,, on grass ....................27'1

,, accumulat. above 42° day-degs. 1'6

,, ,, since 1st January 85'7
Barometer (mean, Mo. ii, 29'98) in.
(Mo. ii, 2'77 in. on 17 days)

Rainfall (since 1st January, 4'753 in.) 0'99 in.
(mean rel. humidity 92 %)

Wind, direction, &c. ................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
Ulex Europæus I, Furze, Gorse, Goss, Thorn-Broom, Whin. Heaths.............

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Yellow hammer sings (G.W.) 106.............

Animals: seen, breeding, &c.

Snipe, &c........................
Woodcock........................
Wildfowl........................
Hares............................
Rabbits..........................
Salmon...........................
Coarse fish......................
Temperature, mean .......................... 39°4
   , , max. in sun ..................... 71°3
   , , , , shade ..................... 44°8
   , , min. , shade ..................... 33°6
   , , on grass ..................... 29°3
   , , accumltd. above 42° day-degs. 1°7
   , , since 1st January 87°4
Barometer (mean, Mo. ii, 29°98)   in.
   Mo. ii, 2°77 in. on 17 days
Rainfall since 1st January, 4°832 in. 0°99 in.
   mean rel. humidity, 91 %
Wind, direction, &c. ..........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
POTENTILLA FRAGARIASTRUM 32-77,
Barren Strawberry, Strawberry-leaved
Polentil. Banks ............................
LOOK FOR Moschatel 66.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ...................................
Woodcock ..................................
Wildfowl ..................................
Hares ....................................
Rabbits ..................................
Salmon ....................................
Coarse fish ..............................
Temperature, mean..........................41°7

,, max. in sun ....................72°9
,, ,, ,, shade ................46°6
,, min. ,, shade ................37°7
,, ,, on grass ...............33°9
,, accum. above 42° day-degs. 3°4 since 1st January, 90°8
Barometer (mean, Mo. ii, 29°98) in.
Mo. ii, 29°77 in. on 17 days
Rainfall since 1st January, 4°95 in. mean rel. humidity 92 %
,099 in.
Wind, direction, &c. .....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
MERCURIALIS PERENNIS 4-86, Dog's Mercury, Kentish Balsam. Woods, thickets, hedges, banks .................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c..........................
Woodcock ................................
Wildfowl ................................
Hares.................................
Rabbits ................................
Salmon .............................
Coarse fish ..........................
Temperature, mean .................................. 41°0
    " max. in sun ...................... 73°4
    " " min. in shade ................. 46°4
    " " on grass ...................... 35°1
    " accumulated above 42° day-degs. 2'6
        " since 1st January 93'4

Barometer (mean, Mo. ii, 29°98) .............. in.
    Mo. ii, 27'7 in. on 17 days
Rainfall, since 1st January, 5°05 in. .......... in.
    mean rel. humidity 92 %

Wind, direction, &c. .................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
Cornus mascula 20-75, Dog-wood, Cornel-tree, Cornelian Cherry, Male Dog-wood. Hedges and thickets .................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ...........................................
Woodcock ........................................
Wildfowl ........................................
Hares ...........................................
Rabbits ........................................
Salmon ...........................................
Coarse fish .....................................
Temperature, mean .................. 40°.1
" max. in sun .................. 77°5
" " shade .................. 46°3
" min. " shade .................. 35°.1
" on grass .................. 30°.8
" accumlated above 42° day-degs. 2°.4
" since 1st January 95°.8
Barometer (mean, Mo. II., 29.98) in.
(Mo. II., 2.77 in. on 17 days)
Rainfall since 1st January, 5.149 in.
(mean rel. humidity 92 °/o)
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Sweet Violet 64, Gt. Sallow or "Palm" Willow 66.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.
Snipe, &c. ..............................
Woodcock ..............................
Wildfowl ..............................
Hares ..............................
Rabbits ..............................
Salmon ..............................
Coarse fish ..............................
Temperature, mean..................40°·6
   , max. in sun .................73°7
   , , , , shade ...............45°7
   , min. , shade ............36°5
   , , on grass ..............32°8
   , , accumltd. above 42° day-degs. 3°0
   , , since 1st January 98°8
Barometer (mean, Mo. ii, 29°98) in.
   {Mo. ii, 277 in. on 17 days
Rainfall (since 1st January, 5°48 in.
   {mean rel. humidity 94 %
Wind, direction, &c. .................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
PETASITES VULGARIS 7-69, Butter-bur,
    Bog Rhubarb, Cleates 52, Batter dock,
    Water Docken. Swamps ..............

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.;
BROWN or TAWNY OWL egg, Syrniun
    stridula (Strix aluco). Hollow trees.

Animals: seen, breeding, &c.

Snipe, &c...................................
Woodcock.................................
Wildfowl ................................
Hares...................................
Rabbits ................................

Salmon ................................
Coarse fish ..........................
Temperature, mean..........................40°.4
        ,, max. in sun ..............76.6
        ,, ,, shade ..............46.3
        ,, min. ,, shade ...........35.3
        ,, on grass ..............31.8
        ,, accumul'd. above 42° day-degs. 2°8
        ,, ,, since 1st January 101°6
Barometer (mean, Mo. ii, 29.98) in.
Rainfall, since 1st January, 5.347 in.
        mean rel. humidity 91.0%
Wind, direction, &c. ..........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Cardamine hirsuta 18.83, Hairy Bitter Cress, Lamb’s Cress. Damp places......
Taxus buccata 25.71, Com. Yew, “Palm.”
Wood and limestone cliffs
LOOK FOR Larch tree 81.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing:

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ......................................
Woodcock......................................
Wildfowl .....................................
Hares .........................................
Rabbits ......................................
Salmon .......................................
Temperature, mean ........................39.2

,, max. in sun ...............78.5
,, ,, shade ..................45.3
,, min. ,, shade ..............34.6
,, ,, on grass ..............31.2
,, accumltd. above 42° day-degs. 2.1
,, ,, since 1st January 10.3°

Barometer (mean, Mo. ii, 29.98)  in.

Rainfall since 1st January, 5.446 in. 0.99 in.

Barometer (mean, Mo. ii, 29.98)  in.

Rainfall since 1st January, 5.446 in. 0.99 in.

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c. ................................
Woodcock..............................
Wildfowl ................................
Hares ....................................
Rabbits ..................................

Salmon .................................
Coarse fish .............................
51-314, Mo. II., FEBY. 20, 188

Temperature, mean .................................. 38°.5

" max. in sun .................. 78°.8

" " shade ..................... 44°.8

" min. " shade ................ 29°.1

" " on grass ................... 30°.1

" accumul. above 42° day-degs. 1°.7

since 1st January 105°.4

Barometer (mean, Mo. ii, 29°.98) in.

Mo. ii, 27°.77 in. on 17 days

Rainfall

since 1st January, 5°.345 in. 0°.99 in.

mean rel. humidity 91 °/o.

Wind, direction, &c.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Sloe or Blackthorn 91.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

LOOK FOR Dotted Border M. 65.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Snipe, &c. ..........................................

Woodcock ..........................................

Wildfowl .........................................

Hares ...........................................

Rabbits ..........................................

Salmon ..........................................

Coarse fish .....................................
Temperature, mean .......................... 39° 0

', max. in sun ..................... 75'8
', ', ', shade ...................... 45'2
', min. ', shade .................... 33'5
', ', on grass ...................... 29'0

', accum.lt.above 42° day-degs. 2'4
', ', since 1st January 107° 8
Barometer (mean, Mo. ii, 29'98) in.

Rainfall since 1st January, 5'644 in. 099 in.

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming

Trees and Shrubs leafing; seeds germinating, &c.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c. Goldfinch sings (G.W.) 115 ..................

Animals: seen, breeding, &c.

Snipe, &c. ..................................
Woodcock..................................
Wildfowl ..................................
Hares ..................................
Rabbits ..................................
Salmon ..................................
Coarse fish .............................
Temperature, mean.................38°7
    " max. in sun ............75°7
    " " shade ............45°4
    " min. " shade ........32°9
    " on grass ............28°9

    " accumltd. above 42° day-degs. 2:3
    " " since 1st January 11°1

Barometer (mean, Mo. ii, 29°98) in.
    Mo. ii, 2°77 in. on 17 days
Rainfall
    since 1st January, 5°743 in.
    mean rel. humidity 91 %

Wind, direction, &c. ................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
LOOK FOR Goldilocks 93, Fumitory 125.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Phigalia Pilosaria 32-71, Pale Brindled Beauty M. Tree trunks (lar. vi. on oak, elm) ............

Fish. Reptiles.
Viper or Adder (Vipera berus) appear (G.W.) ..................................................

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c........................................
Woodcock.....................................
Wildfowl ...................................
Hares........................................
Rabbits ....................................
Salmon ....................................
Coarse fish ................................
Temperature, mean...............................38°8
    ,,  max. in sun .......................79°4
    ,,  ,, shade .......................45°0
    ,,  min. ,, shade ...................31°9
    ,,  on grass .......................29°3
    ,,  accumltd. above 42° day-degs. 2°0
    ,,  since 1st January 1881
Barometer (mean Mo. ii, 29°98) in.
    ,,  Mo. ii, 29°77 in. on 17 days
Rainfall (mean rel. humidity 97%)
    ,,  since 1st January, 5°842 in. .009 in.
Wind, direction, &c, .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Scilla verna 22°65, Vernal Squill,
Spring flowering Squill, Sea Onion. Sea coasts

Vinca minor 12°, Lesser Periwinkle.
Woods and thickets...........................
LOOK FOR Scarlet Currant 79.

Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Dark Beauty M. 82.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Snipe, &c........................................
Woodcock........................................
Wildfowl ........................................
Hares...........................................
Rabbits .......................................
Salmon .........................................
Coarse fish.....................................
Temperature, mean.........................38°8

" max. in sun ...............76°4

" " " shade ...............45°3

" min. " shade ...............33°0

" on grass ...............28°8

,, accumld. above 42° day-degs. 1°8 since 1st January 113°9

Barometer (mean, Mo. ii, 29°98) in.

Mo. ii, 277 in. on 17 days

Rainfall (since 1st January, 5°941 in. -099 in.

mean rel. humidity 92 %)

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Helleborus viridis 19°91, Green Hellebore, Bastard Hellebore, Bear’s-foot, Boar’s-foot 359. Thickets on chalky soil

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.


Snipe, &c....................................

Woodcock....................................

Wildfowl ....................................

Hares........................................

Rabbits......................................

Salmon .....................................

Coarse fish .................................
Temperature, mean ...................... 40° 1
" max. in sun ...................... 79° 9
" " " shade ...................... 46° 8
" min. " shade ...................... 34° 3
" " on grass ...................... 29° 8
,, accumltd. above 42° day-degs. 2° 4
,, since 1st January 116° 3
Barometer (mean, Mo. ii, 29° 98) in.
\(\text{Mo. ii, } 29° 77 \text{ in. on 17 days}\)
Rainfall \(\text{since 1st January, } 6° 04 \text{ in.} \quad 099 \text{ in.}\)
Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
WHEATEAR seen, Saxicola oenanthe 120...

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.
Snipe, &c...............................
Woodcock............................
Wildfowl............................
Hares.................................
Rabbits..............................
Salmon..............................
Coarse fish...........................
Temperature, mean.....................41°0
   max. in sun ...................79'2
   ,,   ,,   shade ...............47'2
   min.   ,,   shade ...............36'2
   ,,   on grass ...............31'6

   accumltd. above 42° day-degs. 3'0
   , since 1st January 119'3
Barometer (mean, Mo. ii, 29'98) in.
   
   Rainfall, since 1st January, 6'139 in. .099 in.
   mean rel. humidity 91 %

Wind, direction, &c. .......................... Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
LOOK FOR Hairy Violet 78, Three-leaved Saxifrage 92.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Com. Quaker M. 80, Hebrew Character M. 89.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Great Spotted Woodpecker seen, Picus major..........................

Animals: seen, breeding, &c.

Snipe, &c..........................
Woodcock..........................
Wildfowl ..........................
Hares..........................
Rabbits ..........................
Salmon ..........................
Coarse fish..........................
Temperature, mean .............. 40° 4

" max. in sun ............ 73° 2
" max. in shade ........... 45° 8
" min. in shade .......... 36° 0
" on grass .............. 31° 8

" accumld. above 42° day-degs. 2° 3

since 1st January 121° 6

Barometer (mean, Mo. ii, 29° 98) in.

Rainfall since 1st January, 6° 238 in. °099 in.

mean rel. humidity 91 %

Wind, direction, &c. 

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Ringdove coos (G. W.) 69 ................

Animals: seen, breeding, &c.


Snipe, &c. ................................

Woodcock ................................

Wildfowl ..............................

Hares ..................................

Rabbits ..............................

Salmon ..............................

Coarse fish ..........................
Temperature, mean.....................39°7
   ,, max. in sun ...............77°4
   ,,  ,, shade ..................45°'5
   ,, min.  ,, shade ..........35°'1
   ,,  ,, on grass ...........31°'4
   ,, accumltd. above 42° day-degs. 4°'3
   ,, since 1st January 125°'9
Barometer (mean, Mo. ii, 29°'98) in.
   Mo. ii, 2°'77 in. on 17 days
Rainfall since 1st January, 6°'337 in.
   mean rel. humidity 91°
Wind, direction, &c. ..............................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.
Toad (Rana bufo) appears (G.W.) .........
Frogs (Rana temporaria) spawn (G.W.) ...

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Wild bird shooting and taking ends.
Hares and rabbits have no close time.
Salmon ...........................................
Coarse fish.................................
Temperature, mean..................40°0
   max. in sun .................83°0
   "   " shade ..............47°1
   "   " min. " shade ..........34°2
   "   on grass ..........30°4
' accumltd. above 42° day-degs. 3°1
   since 1st January 129°0
Barometer (mean, Mo. iii, 29°96) in.
   (Mo. iii, 2°6 in. on 14 days)
Rainfall since 1st January, 6°403 in.
   (mean rel. humidity 86 \%)
Wind, direction, &c. ..........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Buttercup (R. bulbosus) 100.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Brambling or Mountain Finch seen, Fringilla montifringilla ...................

Animals: seen, breeding, &c.

Close season for wild birds begins.
Salmon (S). Trout (T) .....................
Coarse fish..............................

The Wild Birds Protection Acts provide a close season for all birds that are not included under the head of "game." The general close season is between the 1st day of March and the 1st day of August, but exceptions are made in different counties by authority of the Home Secretary. The close season has been altered in Lincolnshire, and also in the county of Huntingdon, the liberty of Peterborough, and the Isle of Ely—from March 15 to August 31 (both inclusive); in Essex till March 15 as regards curlew, dunbird, godwit, oxbird, snipe, widgeon, wild goose, and woodcock; and in Northumberland the close season is between March 1 and August 11. In that part of Devonshire which is included within the limits of the Exe Fishery District, the operation of the Act is suspended as far as cormorants or shags are concerned; so that these birds may be killed throughout the close season, owing to their destructiveness to the salmon fisheries.
Temperature, mean .......................... 41°.1

   max. in sun .................... 89°.1
   ,  , shed ...................... 48°9
   ,  , shed ...................... 35°4
   , on grass ................... 31°5

   accumltd. above 42° day-degs. 3°8
   since 1st January 132°8

Barometer (mean, Mo. iii, 29°96) in.

\[
\text{Mo. iii, 2°06 in. on 14 days} \quad \{ \text{mean rel. humidity 86°/a} \}
\]

Rainfall since 1st January, 6°469 in. \quad 0°66 in.

Wind, direction, &c. ........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
LOOK FOR Hairy Wood Rush 84.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Clouded Drab M. 90.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..................... ...
Coarse fish ............................. ...
Temperature, mean. .......................... 41°0
  
  max. in sun  ..................... 86'6
  
  "  "  "  shade  ..................... 48'2
  
  "  "  "  min.  "  shade  ..................... 35'2
  
  "  "  "  on grass  ..................... 30'6

  "  accumltd. above 42°  day-degs.  3'8
  
  "  since 1st January  136'6

Barometer (mean, Mo. iii, 29'96)  in.
  
  Mo. iii, 5°6 in. on 14 days

Rainfall  since 1st January, 6'535 in.  0'66 in.
  
  mean rel. humidity 86 %

Wind, direction, &c.  .....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c, appearing.
  
  Gonepteryx Rhamni 41-76, Brimstone B.
  
  Woods, lanes (lar. vi.-vii. on buckthorn).
  
  LOOK FOR Red Admiral B. 206.

Fish, Reptiles.

Birds: migration, song, nesting, &c.
  
  Stonechat seen, Saxicola rubicola 115 ...

Animals: seen, breeding, &c.

Fishing, Sports.
  
  Salmon (S). Trout (T) ..................

  Coarse fish  ..................
Temperature, mean .................. 40°'9
  "  max. in sun ........... 80'8
  "  "  "  shade ............ 48'0
  "  min. "  "  shade ........... 34'6
  "  "  on grass ............ 30'5
  "  accumld. above 42 day-degs. 3'0
  "  "  since 1st January 139'6
Barometer (mean, Mo. iii, 29'96) in.
  Mo. iii, 2'06 in. on 14 days
Rainfall : since 1st January, 6'06 in.
  mean rel. humidity 86 %
Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.
Land Tortoise comes forth (G.W.) ........

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)....................
Coarse fish ...........................
Temperature, mean .......................... 42°.6

', " max. in sun .................. 90°.4

', " " " shade ............... 50°.2

', " min. " shade ............. 35°.4

', " on grass .......... 32°.5

', " accumltd. above 42° day-degs. 4°.4

Barometer (mean, Mo. iii, 29°.96) in.

Rainfall since 1st January, 0°.66 in.

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming

VIOLA ODORATA 47°.82, Com. Sweet Violet, March Violet. Hedge-banks......

LOOK FOR Corydel or Fume-wort 78,

Ground Ivy 83, Borage 132.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

LOOK FOR Green-veined White B. 112,

Light Orange Underwing M. 83.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .................

Coarse fish ................................
Temperature, mean..........................41°4
   max. in sun ......................86°9
   " " " shade....................48°2
   min. " shade.................36°1
   " " on grass .................31°1

"accum ltd. above 42° day-degs. 3°2
" " since 1st January 147°2
Barometer (mean, Mo. iii, 29°96)  in.
   (Mo. iii, 2°66 on. 14 days)
Rainfall - since 1st January, 67.23 in. -0066 in.
   (mean rel. humidity 86°/o)

Wind, direction, &c. .........................
Plants and Trees blossoming: note if surviving, premature, or 2nd blossoms
Marshy places ................................
LOOK FOR Wood Violet 93, Wood Sorrel, 101.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Hibernia Progenmaria 51-84 and 320,
   Dotted Border M. Hedges (lar. v. & vi.
on oak, birch, nut).........................
LOOK FOR Small White Cabbage B. 100.

Fish. Reptiles.

Birds, migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
   Salmon (S). Trout (T). ..............
   Coarse fish ..........................
Temperature, mean..................40°8

max. in sun ...............87'4

,, ,, shade ..............48'9

min. ,, shade ..............34'6

on grass ..............30'0

accumulated above 42° day-degs. 3'8

since 1st January 151'0

Barometer (mean, Mo. iii, 29'96) in.

(Mo. iii, 2'06 in. on 14 days)

Rainfall (since 1st January, 8'799 in.) 0'999 in.

(mean rel. humidity 86 %)

Wind, direction, &c. .....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings.


ULMUS MONTANA 36-91, Wych Elm, Witch Hazel, Mountain and Scotch Elm. Woods and hedges.


LOOK FOR Early Scorpion-grass 106, Com. Plum tree, 85.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

LOOK FOR Early Grey M. 88.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

ROOK egg 38. High tree tops

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)

Coarse fish
Temperature, mean .................... 40°'4
   ,, max. in sun .................. 89°'8
   ,, ,, shade .................... 47°'1
   ,, min. ,, shade ................ 35°'3
   ,, on grass .................... 31°'3
   ,, accumltd. above 42° day-degs. 3°
   ,, since 1st January 1880

Barometer (mean, Mo. iii, 29°96) in.
   Mo. iii, 2°06 in. on 14 days
Rainfall, since 1st January, 6°86 in.
   mean rel. humidity 86 %

Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Wild Gooseberry 82.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
_Vanessa Urtica_ 28-105 and 200, Small Tortoise-shell B. Outhouses (lar. v.-viii.
on nettle) .........................
LOOK FOR Great Tortoise-shell B. 94 and 221.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Long-eared Owl egg, _Otus vulgaris_. Tree forks ......................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Coarse fish..........................
Temperature, mean..........................39°6
,, max. in sun ......................88°6
,, ,, shade .........................47°2
,, min. ,, shade ..................34°0
,, on grass .......................29°8
,, accumul. above 42° day-deg. 3° since 1st January 157°0
Barometer (mean, Mo. iii, 22°96) in.
Rainfall; since 1st January, 6°931 in.
mean rel. humidity 86 %
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Water Fennel 101.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Whinchat seen, Saxicola rubetra 132 ......
Kingfisher seen, Alcedo isipida 126.......... 

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S), Trout (T)...................
Coarse fish...........................
Temperature, mean......................39.1
  ,, max. in sun .................89.1
  ,, ,, shade ..................46.5
  ,, min. ,, shade ...............33.7
  ,, on grass ..................29.4

,,accumul'd. above 42° day-degs. 2.9
,,,, since 1st January 159.9
Barometer (mean, Mo. iii, 29.96) in.
(Mo. iii, 2.06 in. on 14 days)
Rainfall : since 1st January, 6.997 in. 0.66 in.
(mean rel. humidity 86 %)

Wind, direction, &c. ....................... Plant s and Trees blossoming; note if surviving, premature, or 2nd blossoms Buxus sempervirens 40-91, Common Box.
Chalk hills? ................................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
CHIFF-CHAFF seen, Phylloscopus collybita 118.........................................
Wood-Pigeon or Ring-Dove egg, Columba palumbus 58. Tree branches..............

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Coarse fish................................
70-295, Mo. III., MARCH 11, 188.

Temperature, mean ................. 39° 6

,, max. in sun ............... 86 ° 4
,, ,, shade ............... 47 ° 4
,, min., ,, shade ............. 33 ° 2
,, ,, on grass .......... 28 ° 8

,, accumltd. above 42 ° day-degs. 2 ° 7
,, since 1st January 162 ° 6
Barometer (mean, Mo. III, 29 ° 96) in.
Mo. III, 2 ° 66 in. on 14 days
Rainfall (mean rel. humidity 36 %)
since 1st January, 7 ° 963 in. ° 066 in.

Wind, direction, &c. .....................
Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
LOOK FOR Greater Stitchwort, 98.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR The Engrailed. M. 100.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
SONG THRUSH egg. Turdus musicus 6,
Mavis, Throstle. Hedge, &c. ............

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .................
Coarse fish ..........................
Temperature, mean..................39°2
  "  max. in sun..................88°0
  "  " shade..................46°9
  "  min. " shade..................32°9
  "  " on grass ..................27°9
  "  accumul. above 42° day-degs. 2°7
  "  " since 1st January 165°3
Barometer (mean, Mo. iii, 29°96) in.
  Mo. iii, 2°06 in. on 14 days
Rainfall: since 1st January, 7°729 in.
  mean rel. humidity 86°%
Wind, direction, &c. .........................
Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Orange Underwing M. 90,
March M. 75.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Golden-Crowned Wren sings (G.W.) 98 ..

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Coarse fish. .............................
Temperature, mean.................38°\textdegree 8

\[\text{max. in sun} \quad \ldots \quad 91.5\]
\[\text{"} \quad \" \quad \text{shade} \quad \ldots \quad 46.2\]
\[\text{"} \quad \" \quad \text{min.} \quad \" \quad \text{shade} \quad \ldots \quad 32.7\]
\[\" \quad \" \quad \text{on grass} \quad \ldots \quad 28.4\]

\[\" \quad \text{accumulated above } 42° \text{ day-degs.} \quad 2.0\]

\[\text{since 1st January} \quad 167.3\]

Barometer (mean, Mo. iii, 29.96) in.
\(\text{Mo. iii, } 29.06 \text{ in. on 14 days}\)

Rainfall (since 1st January, 7.795 in.) \(0.66 \text{ in.}\)

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
LOOK FOR Field Wood Rush 96, Cuckooflower or Ladies' Smock 96, Germander Speedwell 107, Charlock 117.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR the Tissue Moth 108 and 243.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)..................
Coarse fish.............................
Temperature, mean..........................39°0

,,  max. in sun. .....................89'3
,,  ,,  ,, shade. .....................46'6
,,  min.  ,,  shade.....................32'9
,,  ,,  on grass .....................28'1
,,  accumltd. above 42° day-degs. 3'3
,,  ,,  since 1st January  170'6
Barometer (mean, Mo. iii, 29'96)  in.
\{Mo. iii. 2'06 in. on 14 days\}
Rainfall, since 1st January, 7'26x in.  .066 in.
\{mean rel. humidity 86 %\}

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
LOOK FOR Upright Crowfoot 105.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish.  Reptiles.

Birds: migration, song, nesting, &c.
Missel Thrush egg, Turdus viscivorus 2.
Tree forks .................................

Animals: seen, breeding, &c.

Fishing.  Sports.  Coarse fishing (fresh-water) ends.
Salmon (S).  Trout (T).................
Temperature, mean..........................39°0

,, max. in sun ...................88:3
,,,,  ,, shade .................47:2
,,,,  ,, shade .................32:7
,,,, on grass ....................27:4

,, accumld. above 42° day-degs.  2:6
,,,, since 1st January 173:2

Barometer (mean, Mo. iii, 29:96) in.
{Mo. iii, 2:06 in. on 14 days}
Rainfall (since 1st January, 7:327 in.) 0:66 in.
{mean rel. humidity 86 %}

Wind, direction, &c. .......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Primula vulgaris 2:105, Com. Primrose. Woods, hedges .......................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Black Ants (Formica nigra) appear (G.W.)

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ....................
Temperature, mean .......... 40°6

,, max. in sun .......... 93°3
,, , max. in shade .......... 49°6
,, ,, min. in shade .......... 33°5
,, ,, on grass .......... 28°9
,, accumltd. above 42° day-degs. 4°3
,, ,, since 1st January 177°5
Barometer (mean, Mo. iii, 29°96) in.

Mo. iii, 2°06 in. on 14 days

Rainfall since 1st January, 7°39 in. .066 in.

mean rel. humidity 86 %

Wind, direction, &c. .....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Cowslip 94.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Anisopteryx Åescularia 71-105, March M.

Trees, hedges (lar. v.-vi. on oak, lime, apple)..............................

LOOK FOR Early Thorn M. 97 and 190.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Little Grebe egg, Podiceps minor. Low

sedges ..............................................

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)......................
76-289, Mo. III., MARCH 17, 188

Temperature, mean .......................... 40°7

,, max. in sun ....................... 87°9
,, ,, shade ....................... 49°4
,, min. ,, shade ....................... 34°0
,, ,, on grass ....................... 28°9
,, accumltd. above 42° day-degs. 4°o
,, since 1st January 181°5
Barometer (mean, Mo. iii, 29°96) in.

Mo. iii, 2°06 in. on 14 days

Rainfall since 1st January, 7°49 in. ±066 in.

(mean rel. humidity 86 %)

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

LOOK FOR Red Currant 99.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Cerastis Vaccinitii 40-132 and 296, Chestnut M. Hollow trees (lar. vi.-vii. elm, oak, willow) .....................

LOOK FOR Painted Lady B. 146.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

WOODCOCK departs, Scolopax rusticola (arrives 292) .............................................

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S), Trout (T) .........................
Temperature, mean ..........................41°3
   , max. in sun .....................95°2
   ,   , shade .......................50°2
   ,   ,   , shade ...................34°6
   ,   , on grass ...................28°7

   , accumul. above 42° day-degs. 4°6
since 1st January 1881
Barometer (mean, Mo. iii, 29°96) in.
   Mo. iii, 2°06 in. on 14 days
Rainfall since 1st January, 7°525 in. "066 in.
mean rel. humidity 86 %

Wind, direction, &c. ..........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Thyme-leaved Speedwell 113.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Vanessa Io 13-144 and 203, Peacock B.
Woods, gardens (lar. vi.-vii. on nettle)...

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Temperature, mean...40°3

max. in sun ..............88.2

" " shade .............48.4

min. " shade ..........33.7

" on grass ..........29.2

" accumltd. above 42° day-degs. 4.0

Barometer (mean, Mo. iii, 29.96) in.

Rainfall since 1st January 1901

Wind, direction, &c. 

Plants and Trees blossoming; note if surviving, premature, or 2nd bloomings

Viola hirta 57-96, Hairy Violet. Chalky pastures

Corydalis solida 64-97, Corydal, Fumewort. Thickets

LOOK FOR Com. Pear (in orchards) 92.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.


Fish. Reptiles.

Birds: migration, song, nesting, &c.
Blackbird egg, Turdus merula 17. Shrubs, &c. 

Garden Warbler, Petitchaps, seen, Curruca (Sylvia) hortensis 123

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) 

Temperature, mean..........................38°9

max. in sun .......................88·2
,, ,,, shade ....................47·1
,, ,,, min. ,,, shade ..............33·5
,, ,, on grass .................28·2
,, accumltd. above 42° day-degs. 2·7
,, ,, since 1st January 192·8

Barometer (mean, Mo. iii, 29·96) in.
Mo. iii, 2'66 in. on 14 days
Rainfall since 1st January, 7'657 in. -066 in.
mean rel. humidity 86 %

Wind, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Ribes sanguineum 54-105, Scarlet Currant, Red-flowered Currant. Shrubberies

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Stock-dove egg, Columba anas. Tree
tops.................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
80-285, Mo. III., MARCH 21, 188.

Temperature, mean..................38°.2
... max. in sun ..............88°2
... " shade .............45°6
... min. " shade ...........32°6
... on grass ..........28°5
... accumld. above 42°day-degs. 2°9
... since 1st January 195°7
Barometer (mean, Mo. iii, 29°96) in.
Mo. iii, 2.06 in. on 14 days
Rainfall since 1st January, 7723 in. 066 in.
mean rel. humidity 86 %

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
LOOK FOR Blue Bell or Wild Hyacinth
102, Creeping Crow’s-foot 114.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.
Tanthocampa Stabilis 57-101, Com. Quaker
M. Bushes (lar. v.-viii., oak, elm) ......
LOOK FOR Small Quaker Moth 94.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Redbreast egg, Erythaca rubecula i, Robin,
Ruddock. Hedge-banks, &c..................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..................
Temperature, mean .................. 38°'

'' max. in sun ............... 92°'

'' '' shade .......... 46°'

'' min. '' shade ......... 32°'

'' on grass .......... 27°'

'' accumul'd above 42° day-degs. 1°6

since 1st January 1873
Barometer (mean, Mo. iii, 29°96) in.
{ Mo. iii, 2°6 in. on 14 days }
Rainfall : since 1st January, 7°78 in. 0°66 in.
{ mean rel. humidity 86% }

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

*Larix* *Europaea* 49-107, Com. Larch. *Woods*

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.
Common Snake (*Coluber natrix*) appears (G.W.)............................

Birds: migration, song, nesting, &c.
Blackcap Warbler seen, Mock Nightingale, Blackcap, *Curruca (Sylvia) atricapilla*, 125 ..................................
Trees and high bushes ...........................

*MARTIN* seen, House Martin, Window

Martin, *Hirundo urbica* 141 and 324 ................................
Greenfinch sings (G.W.) 104 ....................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..................
Temperature, mean .......................... 38° 2

,, max. in sun ......................... 89'8
,, ,, ,, shade ......................... 46'7
,, min. ,, shade ......................... 30'9
,, ,, on grass ......................... 25'5
,, accum.ltd.above 42° day-degs. 2'0
,, ,, since 1st January 199'3
Barometer (mean, Mo. iii, 29'96) in.
{ Mo. iii, 2'06 in. on 14 days }
{ mean rel. humidity 86% }
Rainfall since 1st January, 7'855 in. . 066 in.
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Ash tree 101, Corn Salad 115, Broom 120.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c, appearing.
Amphidasis Prodrornaria 54-136, Oak Beauty M. Oak trees (lar. v.-vii. on low plants). .....................................

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Sedge Warbler seen, Sedge-bird, Sedge-wren, Reed Fauvette, Sylvia salicaria 116 ......................................................
Swarrow seen, Chimney-swallow, Hirundo rustica 136 and 334. ........................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Temperature, mean .................. 39°9
    max. in sun .................. 97°8
    ,, ,, shade ............... 49°5
    ,, min. ,, shade ............. 31°9
    ,, ,, on grass ............ 26°4
    accumld. above 42° day-degs. 4°2
    since 1st January 203°5
Barometer (mean, Mo. iii, 29°96) in.
     (Mo. iii, 2°06 in. on 14 days)
Rainfall (since 1st January, 7'921 in.)
     [mean rel. humidity 86%]
Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Nepeta Glechoma 64-102, Ground Ivy,
   Ale-hoof, Blue Runner, Cat's-foot, Devil's
   Candlesticks, Gill-go-by-ground, Robin-
   in-the-hedge, Tun-hoof. Hedge-banks...
LOOK FOR Wallflower (wild) 95.

Trees and Shrubs leafing; seeds ger-
minating.

Insects, Larvæ &c. appearing.
Scopelosoma Satellitia 60-118 and 315, Sa-
tellites M. Ivy (lar. v.-vi. on oak)....
Brephos Notha 64-105, Light Orange Under-
wing M. Willow (lar. vi. on willow and
poplar)..................................

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Hedge Sparrow egg, Accentor modularis 5,
   Dunnock, Cuddy, Shuffle-wing, Hedge
   Accentor, Winter Fauvette. Hedges ...

Animals: seen, breeding, &c.

Fishing. Sports.
   Salmon (S). Trout (T)....................
84-281, Mo. III., MARCH 25, 188

Temperature, mean ..................... 39°8
,, max. in sun .................... 95'7
,, ,, shade .......................... 49'1
,, min. ,, shade ...................... 31'0
,, longrass ......................... 26'3
,, accumld. above 42° day-degs. 4'0
,, since 1st January 207'5
Barometer (mean, Mo. iii, 29'96) in.
(Mo. iii, 2'06 in. on 14 days)
Rainfall since 1st January, 7'987 in., 0'66 in.
{mean rel. humidity 86%}
Wind, direction, &c. ......................
Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
Woods, ......................................
LOOK FOR Wood Spurge 115; Three-nerved Sandwort 116.

Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Lapwing or Pee-wit egg, Venellus Cristatus, Crested and Green Plover. On ground ..................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .................... ...
Temperature, mean
max. in sun
,, ,, shade
,, min. ,, shade
,, on grass
,, accumld, above 42° day-degs
,, since 1st January
Barometer (mean, Mo. iii, 29'96) in.
Rainfall since 1st January, 8'053 in.
Wind, direction, &c.

Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
Prunus domestica 66, Com. Plum tree. Orchards, hedges.
LOOK FOR Cross-wort 112, Wild Strawberry 115, Lesser Hop Trefoil 129.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Carrion Crow egg, Corvus corone, Crow,
Gore Crow, Black-neb. Tree forks ......
Grasshopper Warbler seen, Sitticaria (Sylvia) locustella, Cricket-bird 129

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).
86-279, Mo. III., MARCH 27, 1888

Temperature, mean..................39°8

"  max. in sun ..................98'6

"  "  "  shade ..................48'7

"  min.  "  "  shade ..................32'3

"  "  on grass ..................27'2

"  accumultd. above 42° day-degs. 3'9
since 1st January  215'1

Barometer (mean, Mo. iii, 29'96)  in.
Mo. iii, 2'06 in. on 14 days
Rainfall  since 1st January, 8'119 in.  066 in.
    mean rel. humidity 86 %

Wind, direction, &c. ....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Partridge egg, Perdix cinerea. Grassy ground

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).................
Temperature, mean..................40°-
max. in sun ..............92°4

,, , shade ..............48°0

,, min. ,, shade ..............33°7

,, on grass ..............27°9

,, accumuldt. above 42° day-degs. 3°1

,, since 1st January 218°2
Barometer (mean, Mo. III, 29.96) in.
(Mo. III, 2°06 in. on 14 days)
Rainfall, since 1st January, 8°85 in.
(mean rel. humidity 86°)

Wind, direction, &c...........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).........................
Temperature, mean

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88-277, Mo. III., MARCH 29, 188
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Temperature, mean..................41°8

,, max. in sun ..................92°2
,, ,, shade ..................49°9
,, min., ,, shade ...............35°1
,, ,, on grass ...............30°2

,, accumul. above 42° day-degs. 4°9
,, since 1st January 223°1
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Barometer (mean, Mo. III., 29°96) in.

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Mo. III., 2°66 in. on 14 days
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Rainfall since 1st January, 8°25 in. - 0°66 in.

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mean rel. humidity 86 %
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Wind, direction, &c. ...................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
LOOK FOR Cuckoo Pint 112.
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Trees and Shrubs leafing; seeds germinating.

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Insects, Larvae &c. appearing.
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Xylocampa lithorhiza 66-121, Early Grey M. Willows (lar. vi.-viii. on honeysuckle) ......................
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Fish. Reptiles.

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Birds: migration, song, nesting, &c.
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Willow Wren or Warbler seen, Phylloscopus (Sylva) trochilus 124, Yellow Warbler, Huck-Muck, Ground Wren ...
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Animals: seen, breeding, &c.
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Fishing. Sports.
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Salmon (S), Trout (T) ..................
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89-276, Mo. III., MARCH 30, 188.

Temperature, mean ..................42°9.

" max. in sun ................100°2

" " " shade ..................51°9

" min., shade ..................35°6

" on grass ..................30°0

" accumltd. above 42° day-degs. 4°9

" since 1st January 228°0

Barometer (mean, Mo. iii, 29°96) in.

Mo. iii, 2°06 in. on 14 days

Rainfall since 1st January, 8°317 in.

mean rel. humidity 86 %

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Capsella Bursa-pastoris 11., Shepherd’s Purse, Mother’s-heart, Pick-purse, Toy-wort. Waste places.........................

LOOK FOR Ribwort Plantain 110, Vernal Grass 113, Field Scorpion-grass 115.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Tennicampa gothica 57-148, Hebrew Character M. Willows (lar. v.-viii. on sallow, oak) ......................

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals; seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)...................
Temperature, mean..........................42°9

" max. n sun ..................96°0

" " " shade ..............51°5

" min. " shade ............35°5

" " on grass ............29°8

" accum. above 42° day-degs. 4°6

" " since 1st January 2326°

Barometer (mean, Mo. III, 29°96) in.

Rainfall (mean, Mo. III, 2°96 in. on 14 days)

Wind, direction, &c. 

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoms.

ANTHRISCUS SYLVESTRIS 18-125, Cow or Wild Chervil, Cow-parsley, Wild Caraway. Hedges and banks.

LOOK FOR Dove's-foot Crane's-bill 119.

Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.

Tænioscampa Instabilis 61-101, Clouded Drab M. Willows (lar. v.-vii. on sloe, willow, &c.) 

Brephos Parthenias 71-99, Orange Underwing, M. Birch Woods (lar. v.-viii. on birch).

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).
Temperature, mean.............43°-3
  max. in sun.........102°1
  ,,  ,,  ,, shade ........52°6
  min.  ,,  ,, shade ........35°7
  ,,  on grass ............30°5

,, accumltd. above 42° day-degs. 4°-1
,, since 1st January 236°7
Barometer (mean, Mo. iv, 29°93) in.
(Mo. iv, 2°27 in. on 14 days)
Rainfall \{since 1st January, 8'459 in.\} '076 in.
\{mean rel. humidity 81\%

Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
PRUNUS SPINOSA 51-125, Sloe-tree, Black-thorn, Buck-thorn, Bullace. Hedges.....
LOOK FOR Fox-tail Grass 106, Early Purple Orchis 112, Turnip 118, Water Avens 120.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Redstart seen, Phoenicura rutilcilla 119,
Red-tail, Fire-tail, Bran-tail, Fiery Bran-tail..........................

Animals: seen, breeding, &c.

Salmon (S). Trout (T)......................
Temperature, mean.......................... 44°
,, max. in sun......................... 102°
,, ,, shade ...................... 54°
,, min. ,, shade .................... 35°
,, ,, on grass .............. 29°
,, accumul. above 42° day-degs. 5°
,, since 1st January 24°

Barometer (mean, Mo. iv. 29.93) in.
Rainfall since 1st January, 8.535 in. - 0.76 in.
Wind, direction, &c. ....................... 

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
Saxifraga tridactylites 57-119, Three-leaved Saxifrage. Rue-leaved Saxifrage. Walls.
Pyrus communis 78-113, Com. or Chok Pear. Orchards .........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Greater Tit egg, Parus major 6, Black-cap Tit, Oxeye, Greater Titmouse, Tomtit,
Sit-ye-down, Tom Collier. Holes of trees.
Cuckoo seen, Cuculus canorus 128,
Gowk.................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)..................
Temperature, mean..........................44°6

,, max. in sun.........................102°5
,, ,, shade ......................53°9
,, min. ,, shade ............37°5
,, on grass ............32°3
,, accumlatd. above 42° day-degs. 6°
,, since 1st January 248°2

Borometer (mean, Mo. iv, 29°93) in.
(Mo. iv, 3°27 in. on 14 days)

Rainfall. since 1st January, 8°61x in.
(mean rel. humidity 81 \%)

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming

Ranunculus auricomus 53-114, Goldilock,
Wood Crow-foot. Woods and thickets...
Viola sylvatica (ravinana) 65-114, Dog
Violet, Wood Violet, Hedge Violet.

Hedges, woods, thickets..........................

LOOK FOR Wild Bird Cherry 108, Greater
Celandine 121.

Trees and Shrubs leafing; seeds germinating.

Elm (Ulmus campestris) leafing (G.W.) ...

Insects, Larvae &c. appearing.

LOOK FOR Garden Carpet M. 117.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Long-tailed Tit egg, Parus caudatus,
Long-tailed Titmouse, Bottle Tit, Long
Tom, Poke Pudding, Long Pod, Mufflin.

Tree branches ..............................
Moorhen egg, Gallinula chloropus, Water-
hen, Marsh-hen, Com. Gallinule. Low
sedges .................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ........................
Temperature, mean..........................43°8
       max in sun ..................103°9
       .. , shade ..................54°0
       min. , shade .................35°6
       " , on grass..................31°0

" accuratl. above 42° day-degs. 5°5
" " since 1st January 253°7
Barometer (mean, Mo. iv, 29°93) in.
Rainfall (since 1st January, 8°687 in.) 076 in.
Wind, direction, &c..........................
Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
PRIMULA VERIS 75-116, Com. Cowslip,
Herb Peter, Palsy-wort, St. Peter's-wort,
Bedlam Cowslip. Meadows. ................
Lathraea squamata 52-122, Com. Toothwort, Hidden Tooth-wort.
Woods, parasitic upon hazel, &c........................

Trees and Shrubs leafing: seeds germinating.

Insects Larvae &c. appearing.
Vanessa Polychloros 67-121 and 221, Gt. Tortoise-shell B. Elms (lar. x.-vii. on elm, willow). ... ...
Iceniocampa Cruda 80-114, Small Quaker M. (lar. v.-vii. on oak, nut, and other caterpillars). ..............

Fish. Reptiles.

Birds: migration, song, nesting, &c.
House Sparrow egg, Passer domesticus,
Com. Sparrow. Holes in houses and trees ..............................................
Starling egg, Sturnus vulgaris, Stare, Starte.
Holes in houses and trees ...........................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)..................
95-270, Mo. IV., APRIL 5, 188.

Temperature, mean .................44°4
   max. in sun .................99'8
   " " " shade ...............53'3
   min. " shade .............36'9
   " on grass.............31'2
   accumul. above 42° day-degs. 5'7
   " " since 1st January 259'4
Barometer (mean, Mo. iv, 29'93) in.
   Mo. iv. 2'27 in. on 14 days
Rainfall since 1st January, 8'763 in.
   mean rel. humidity 86 %

Wind, direction, &c. .....................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
Cheiranthus cheiri 83-, Wallflower, Gilliflower, Bleeding Heart. Old walls......
LOOK FOR Vernal Sedge 117, Medic 118, Gt. River Sedge 120, Pearl-wort 134.

Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Redwing departs, Turdus iliacus 295 ... Jackdaw egg, Corvus monedula, Daw Kae. Holes in trees, churches, &c. ......
Coot egg, Fulica atra, Bald Coot. Low sedges.................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .....................
96-269, Mo. IV., APRIL 6, 188

Temperature, mean .................. 45°2

" max. in sun ................. 99°8
" " shade ............... 54°3
" min. " shade ........... 3°4
" on grass ........... 33°6

" accum. l.td. above 42° day-degs. 6°5
" since 1st January 265°9

Barometer (mean, Mo. iv, 29°93) in.

Mo. iv, 2°27 in. on 14 days
Rainfall since 1st January, 8°39 in. 076 in.
(mean rel. humidity 81 %)

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming:
Meadows ..............................
Luzula campestris 72-120, Field Wood Rush, Chimney-sweeps, Glow-worm Grass. Dry pastures ........................
LOOK FOR Corn Horsetail 110, Corn Gromwell 126.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..........................
Temperature, mean.........................45°o
    "    max. in sun.....................106'9
    "    "    shade ..................55'5
    "    min. "    shade ...............36'8
    "    "    on grass .................32'1
    "    accum. ltd. above 42° day-degs. 7'3
    "    "    since 1st January 273'2
Barometer (mean, Mo. iv, 29'93) in.
    Mo. iv, 2'27 in. on 14 days
Rainfall, since 1st January, 8'915 in.
    mean rel. humidity 81 %
Wind, direction, &c. ........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
LOOK FOR Garlic Hedge Mustard III.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Selenia Illunaria 75-108 and 190, Early Thorn M. (lar. vi. & ix. on fruit and forest trees) ........................................

Fish. Reptiles.
Gudgeon spawns (G.W.)........................

Birds: migration, song, nesting, &c.
Lesser Spotted Woodpecker seen, Picus minor..............................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .... ........ ........
98-267, Mo. IV., APRIL 8, 1888.

Temperature, mean.................45°3

" max. in sun................109'6
"

" , shade ..................56'2
"

" min. , shade ................37'2
"

" on grass ..................31'2

" accumltd. above 42° day-degs. 7'2

" since 1st January 28°14

Barometer (mean, Mo. iv, 29-93) in.

(Mo. iv, 2'27 in. on 14 days)

Rainfall, since 1st January, 8'991 in. mean rel. humidity 81%

Wind, direction, &c. .................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings

STELLARIA HOLOSTEA 70-126, Gt. Stitchwort, Agrown flower, All-bone, Breakbones, Easter Bell, Miller's-star, Snapstalks, Tongue-grass. Hedges, woods ...

LOOK FOR Tuborous Pea 113.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds ; migration, song, nesting, &c.
SAND MARTIN seen, Hirundo riparia 135

and 267, Bank Martin ..................

Golden - Crested Wren egg, Regulus cristatus 71, Goldcrest. Fir-tree branches

Animals : seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)..................
Temperature, mean .................. 44°

   max. in sun.................. 94°
   ,, ,, shade .................. 52°
   min. ,, shade .................. 37°
   ,, on grass .................. 32°

,, accumltd. above 42° day-degs. 6°
since 1st January 286°
Barometer {mean, Mo. iv, 29.93} in.
{Mo. iv, 2.7 in. on 14 days}
Rainfall {since 1st January, 9.67 in.} .076 in.
{mean rel. humidity 82 %}

Wind, direction, &c. ..................
Plants and Trees blossoming; note if
 surviving, premature, or 2nd blossomings
RIBES RUBRUM 76-121, Com. Red Currant,
Garnet-berry. Woods, thickets...........
LOOK FOR Com. Meadow Grass 116.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Ring Ouzel seen, Turdus torquatus 120,
Mountain or Moor Blackbird, Ring
Thrush, Rock Ouzel ..................
Reed Warbler seen, Silicaria arundinacea
113, Night Warbler ..................
Tit-lark sings (G.W.) 118..............

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)..................
Temperature, mean..........................43°6

" max. in sun ...................97°2

" " shade .....................53°3

" min. " shade .................35°8

" on grass ..................30°8

Accumulated above 42° day-degs. 6°4

Barometer (mean, Mo. iv, 29°93) in.

Rainfall since 1st January, 9°143 in.

Wind, direction, &c. ...................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Ranunculus bulbosus 60-117, Buttercup,

Bulbous-rooted Crow-foot, St. Anthony's

Turnip. Meadows, Pastures ....................

LOOK FOR Bladder Nut 126.

Trees and Shrubs leafing; seeds germinating.

[Horse-chestnut leafing, Hoff. Gies.] 126,

127, 259, 283 ..............................

Beech (Fagus sylvatica) leafing (G.W.) 115,

124, 135, 288 ..............................

Insects, Larvae &c. appearing.

Pieris rapae 65-140, Sm. White Cabbage

B. Gardens (lar. vi. & ix. turnip) ......

Tephrosia Laticaria 70-127, the Engrailed

M. ........................................

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Kestrel egg, Falco Tinnunculus, Wind-

hover. Tree forks ...........................

Sandpiper seen, Totonus hypoleucus, Sum-

mer Snipe, Sand Lark, Sand Lavrock...

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T). ........................
Temperature, mean.................. 44°₂
   max, in sun.................. 99°₉
   ,, shade.................. 53°₈
   min, ,, shade............. 36°₀
   ,, on grass............. 31°₀
   ,, accumltd. above 4₂° day-degs. 6°₀
   ,, since 1st January 2₉₈·₈
Barometer (mean, Mo. iv, 2₉'₉₃) in.
   Mo. iv, 2'₂₇ in. on 1₄ days
Rainfall since 1st January, 9'₂₁₄ in.
   mean rel. humidity ₈₁ ᵉ
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
  Oxalis Acetosella 6₅-₁₂₁, Com. Wood Sorrel, Gowk-meat, Alleluia, "Wood-sower." Woods ..................
  Fraxinus excelsior 8₂-₁₁₈, Com. Ash tree, Culver-keys. Woods, hedges ...........
  Ranunculus penicillatus 6₈-₁₁₇, Water Fennel, Water Crowfoot. Ditches ......
LOOK FOR Archangel ₁₁₇, Meadow Saxifrage ₁₁₈, Bugle ₁₁₈, Red Campion ₁₁₉.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Temperature, mean........................................44°6
max. in sun........................................100°0
" " shade ........................................54°1
" min " shade ........................................36°5
" on grass........................................30°4

" accumultd. above 42° day-degs. 6°2
since 1st January 30°5°
Barometer (mean, Mo. iv 29°93) in.
Rainfall since 1st January, 9°29 in. 0°76 in.
mean rel. humidity 81 %

Wind, direction, &c. .................................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
SCILLA NUTANS 80-125, Com. Bluebell
Wild Hyacinth, Crake-foot, Crow-bells.
Woods (Hyacinthus Nonscriptus) .........
LOOK FOR Soft Brome Grass 118, Lilac 125, Rough Chervil 145.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Sparrow Hawk egg, Falco (Accipiter) nisus. Tree forks .........................
White Owl egg, Strix flammea, Barn, Screech, Church, Yellow, and Hissing Owl, Gilli- or Jenny-Howlet. Barns, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).........................
103-262, Mo. IV., APRIL 13, 188.

Temperature, mean......................45°.2
,, max. in sun......................100'4
,, ,,, shade ......................54'0
,, min., ,, shade ......................38'4
,, ,, on grass......................33'9
,, accumltd. above 42° day-degs. 6'5
,, ,,, since 1st January 311'5
Barometer (mean, Mo. iv, 29'93) in.
{Mo. iv, 2'27 in. on 14 days}
Rainfall {since 1st January, 9'372 in.} ,, 076 in.
{mean rel. humidity 82 %}
Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
[Ribes rubrum, Red Currant, Hoff. Gies.]
99, 171...................................
LOOK FOR Comfrey 117.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Whitethroat seen, Sylvia (Curruca) cinerea
122, Muggy, Nettle-creeper ............
Swift seen, Hirundo (Cypselus) apus 129,
314, Screamer, Screech Martin, Cran....

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).....................
104-261, Mo. IV., APRIL 14, 188

Temperature, mean .......................... 46°3

,, max. in sun .......................... 100°2

,, ,, shade .......................... 55°6

,, min. ,, shade .......................... 39°4

,, on grass .......................... 35°0

,, accumltd. above 42° day-degs. 7°4

,, since 1st January 318°9

Barometer (mean, Mo. iv, 29°93) in.

Mo. iv, 2°7 in. on 14 days

Rainfall since 1st January, 9°447 in. -076 in.

mean rel. humidity 81 %

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming

LOOK FOR Bush Vetch 116.

Trees and Shrubs leafing; seeds germinating.

Larch tree leafing (G.W.) 81

Insects, Larvae &c. appearing.

Red Ant (Formica rubra) appears (G.W.)...

Fish, Reptiles.

Birds: migration, song, nesting, &c.

Blue Tit egg, Parus caeruleus, Blue-cap, Blue-bonnet, Nun, Billy-biter. Holes of trees, &c. ..........................

Greenfinch egg, Coccothraustes chlortis 81, Green Linnet. Hedges ..........................


Animals: seen, breeding, &c.

Fishing, Sports.

Salmon (S), Trout (T) ..........................
Temperature, mean.............................................. 46°7

,, max. in sun.......................... 106°2
,, ,, ,, shade ......................... 56°5
,, min. ,, shade ...................... 39°1
,, ,, on grass ....................... 34°2
,, accum. ltd. above 42° day-degs. 8°5
,, ,, since 1st January 327°4
Barometer (mean, Mo. iv, 29-93) in.
Mo. iv. 2°27 in. on 14 days
Rainfall since 1st January, 9°523 in.
mean rel. humidity 8%)
Wind, direction, &c. .................................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
RANUNCULUS ACRIS 73-135, Upright Crow-foot, Meadow Crowfoot, Blister-plant. Meadows

LOOK FOR River Sedge 123.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
HALICICA CONCINNA, Hop Flea or Beetle ("In the early Spring when birds are ready to tie"—C.W.)...........................

LOOK FOR Azure Blue B. 126 and 223, The Hop Fly 121.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
SPOTTED FLYCATCHER seen, Muscicapa grisola 129, Beam, Post, Rafter, Wall, and Bee Bird............................
CHAFFINCH egg, Fringilla coelebs 24, Spink, Horse-finch. Hedges ..................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)...............................
Temperature, mean..................................................46°9

,, max. in sun..........................103°8

,, ,, shade .....................56°5

,, min. ,, shade .....................39°0

,, on grass .........................32°4

,, accumltd. above 42° day-degs. 7°9

,, since 1st January 335°3

Barometer (mean, Mo. iv, 29°93) in.

Mo. iv, 2°27 in. on 14 days

Rainfall - since 1st January, 9°999 in. - 076 in.

(mean rel. humidity 85%)

Wind, direction, &c. ...........................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Myosotis collina 66-134, Early Scorpion-grass, Early field Forget-me-not. *Dry banks ...................................

Alopecurus pratensis 91-125, Foxtail-grass.

Pastures...........................................

LOOK FOR Glaucous Sedge 119, Crab-tree 125, Green-winged Orchis 126, Marsh Horsetail 139.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Lady-bird or Lady - cow (Coccinella bipunctata) appears (G.W.) ..........

Fish. Reptiles.

Birds : migration, song, nesting, &c.

SKYLARK egg, Alauda arvensis 21

Lavrock. Grassy tufts ..............

Yellow hammer egg, Emberiza citrinella 43.

Yellow Bunting, Yellow Yowley. Hedge banks ...........................................

Animals : seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ..............
Temperature, mean....................47°o
  " max. in sun..................108°3
  " " " shade ...............56°0
  " min. " shade ...............39°0
  " " on grass ...............34°2
  " accumul. above 42° day degs. 7°4
  " " since 1st January 342°7
Barometer (mean, Mo. iv, 29'93) in.
  Mo. iv, 29'27 in. on 14 days
Rainfall since 1st January, 9'675 in.
  mean rel. humidity 82 %
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
VERONICA CHAMÆDRYS 72-129, German Speedwell, Bird’s-eyes, Angel’s-eyes, Blue Stars, God’s-eye, Blue-wort.
Hedge banks ......................
  [Betula alba, ‘Silver Birch, Hoff. Gies.]  109, 286
  [Ribes aureum, Golden currant, Hoff. Gies.] 186
LOOK FOR Mealy Guelder Rose 121,
  Herb Robert 124, Louse-wort 127.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Great Plover seen, Edicnemus crepitans 112, Norfolk Plover, Stone Curlew,
  Whistling Plover or Curlew ..............

Animals: seen, breeding, &c.

Fishing. Sports.
  Salmon (S). Trout (T) ....................
Temperature, mean 46°7
" max. in sun 105°6
" shade 56°0
" min. shade 39°5
" on grass 34°0
" accumltd. above 42° day-degs. 7°8
" since 1st January 350°5
Barometer (mean, Mo. iv, 29'93) in.
{ Mo. iv, 2'27 in. on 14 days }
Rainfall since 1st January, 0'751 in. 0'76 in.
{ mean rel. humidity 81 }%
Wind, direction, &c.
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Prunus avium 108, Wild Cherry, Crab Cherry, Gean-tree, Mazzards, "Merries," "Merry tree" [also Hoff. Giessen].
Woods

LOOK FOR Horse-chestnut 126.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Scotosia dubitata 72-132 and 243, The Tissue M. (lar. vi. on buckthorn) .................

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Jay egg, Garrulus glandarius. Tree branches

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).....................
Temperature, mean......................47°0
   " max. in sun.................. 103'5
   " " shade ................... 55'4
   " min. " shade ............... 40'1
   " on grass ................... 34'7
   " accumultd. above 42° day-degs. 7'6
   " since 1st January 358'1

Barometer (mean, Mo. iv, 29'93) in.
   Mo. iv, 2'27 in. on 14 days

Rainfall, since 1st January, 9'847 in.
   mean rel. humidity 81 %

Wind, direction, &c. .....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
[Prunus spinosa Sloe, Hoff. Giessen] 91
LOOK FOR Milkwort 122, Upright Broome Grass 127, Good King Henry 131, Bog Bean 133.

Trees and Shrubs leafing; seeds germinating.
[Betula alba If. Birch, Hoff. Gies.] 107, 286

Insects, Larvae &c. appearing.
LOOK FOR Waved Umber M. 130.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Creep egg, Certhia familiaris, Tree-climber. Holes of trees

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)
110-255, Mo. IV., APRIL 20, 188.

Temperature, mean......................46°9
" " max. in sun.....................108°8
" " in shade .....................57°4
" " min. " shade .....................38°6
" " on grass .....................32°8

" accumltd. above 42° day-degs. 8°3
" since 1st January 366°4

Barometer (mean, Mo. iv, 29°93) in.
Mo. iv, 2°27 in. on 14 days
Rainfall: since 1st January, 9°903 in. .076 in.
mean rel. humidity 81%.

Wind, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
PLANTAGO LANCEOLATA 89-125, Ribwort Plantain, Cock Grass, Rib Grass, Jack-shaws, Ripple Grass, Hen-plant.
Pastures, sandy places ....................... 
Equisetum arvense 95-118, Corn Horsetail, Bottle Brush, False Horsetail.
Fields...
LOOK FOR Winter Cress 125, Venus's Comb 126, Changeable Scorpion Grass 130, Oak tree 133, Black Grass 138.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Large Yellow Underwing M. 165.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Heron egg, Ardea cinerea, Heron, Heron-shaw, Crested Heron.
Tree tops ..............
Turtle Dove coos (G.W.) 121 ..............

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).................
Temperature, mean..........................46°7

,, max. in sun ....................108°7

,,  ,,  ,, shade.....................56°9

,, min.  ,, shade .................39°0

,,  ,, on grass...................33°3

,, accumul. above 42° day-degs. 7°7

,,  ,, since 1st January 374°1

Barometer (mean, Mo. iv. 29°93) in.
(Mo. iv, 27°7 in. on 14 days)

Rainfall (since 1st January 9°79 in.) .076 in.
(mean rel. humidity 81 %)

Wind, direction, &c. .......................... 

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoms

SISYMBRium Alliaria (officincile) 97-125,
Garlic Hedge Mustard, Jack-by-the-
    hedge, Bank Cress. **Hedge banks**
Vinca major—Gt. Periwinkle, Band-plant,
    Cut-finger. **Hedges**
**LOOK FOR** Sweet Wood-ruff 123, Marsh
    Valerian 123, Millet Grass 139, Melic
    Grass 131, Sycamore 125.

Trees and Shrubs leafing: seeds ger-
    minating.

Insects, Larvae &c. appearing.
**LOOK FOR** The Streamer M. 124.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Cole Tit egg, Parus ater, Cole titmouse,
    Colemouse. **Holes in trees, &c.**
**LANDRAIL** or Corn Crake seen. Crex pre-
    tenus 124, Daker-hen .................

Animals: seen, breeding, &c.

Fishing. Sports.
    Salmon (S). Trout (T) ......................
Temperature, mean..........................46°6

" max. in sun..........................109'9

" " " shade ......................56'7

" min. " shade ......................38'4

" on grass ......................33'1

" accumul'd. above 42° day-degs. 7'6

" since 1st January 381'7

Barometer (mean, Mo. iv, 29'93) in.

( Mo. iv, 2'07 in. on 14 days)

Rainfall ( since 1st January, 10'06 in. ) 0'76 in.

( mean rel. humidity 81 % )

Wind, direction, &c...........................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoms

Galium cruciatum 85-130, Crosswort,
Bedstraw, May-wort, Honey-wort.

Waysides ...........................................

Arum maculatum 88-133, Cuckoo Pint,

Orchis mascula 91-130, Early Purple Orchis. Pastures ..........................

[Prunus cerasus—Cherry, Hoff. Gies.] ...

LOOK FOR Lady's Mantle 126, Maple tree 129.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Pieris Napi 64-145, Green-veined White B. Gardens. ( lar. vi. & ix. on rape seed ) ... LOOK FOR Humming-bird, Hawk M. 175, Letticed Heath M. 141.

Fish. Reptiles.

Birds; migration, song, nesting, &c.

Great Plover egg, 107. Shingle. ..........

Wild Duck egg, Anas boschas, Mallard.

Low sedges...........................................

Animals: seen, breeding, &c.

Large bat appears (G.W.) ..............

Fishing. Sports.

Salmon (S). Trout (T) ..............
Temperature, mean..........................46°9

,, max. in sun..........................112'3
,, ,, ,, shade ......................56'5
,, min. ,, shade .....................38'6
,, ,, on grass .......................32'9
,, accumultd. above 42°day-degs. 8°0
since 1st January 389'7

Barometer (mean, Mo. iv, 29'93) in.
(Mo. iv, 2°7 in. on 14 days)

Rainfall (since 1st January, 10'7 in
(mean rel. humidity 82 %)

Wind, direction, &c. ......................

Plants and Trees blossoming; note if
surviving, premature, or 2nd blossomings
Orobus (Lathyrus) tuberosus 98-138, Tu-
berous Pea, Heath Pea. Rocky woods ...
Veronica serpyllifolia 77-138, Thyme-leaved
Speedwell, St. Paul's Betony. Road-
sides ........................................

Anthoxanthium odoratum 89-132, Sweet
Vernal Grass. Pastures..................

[Prunus Padus, Bird Cherry, Hoff. Gies.]

[Pyrus communis, Pear, Hoff. Gies.] 92...

LOOK FOR Com. Vetch 135, Bird Cherry
127...........................................

Trees and Shrubs leafing; seeds ger-
minating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Reed Warbler egg 99. Reed and sedge
stems ........................................
Nuthatch egg, Sitta Europaea, Woodcracker.
Holes in trees .............................

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .....................
114-251, Mo. IV., APRIL 24, 188.

Temperature, mean ............................. 46°'4

" max. in sun ........................ 108'8

" " shade ............................. 55°'6

" min. " shade ............................. 39°'7

" on grass ............................. 33'1

" accumltd. above 42° day-degs. 7°2

Barometer (mean, Mo. iv, 29°'93) ........................ in.

Mo. iv, 2°'27 in. on 14 days

Rainfall since 1st January, 10°'21 in. ........................ in.

mean rel. humidity 82 %

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Ranunculus repens 80-140, Creeping Crowfoot. Pastures .........................

LOOK FOR Purple Clover 124, Field Madder 124, Milkwort 128, Rye 135, Hogweed 136.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

LOOK FOR Short Winged Pug M. 136.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

NIGHTINGALE seen, Philomela luscinia 150.

Pied Wagtail egg, Motacilla alba, Water Wagtail, Yarrell's Wagtail, Winter Wagtail, Peggy-wash-dish. Hedge banks ...

Yellow Wagtail seen, Motacilla flava v. Rayi, Ray's Wagtail.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .........................
Temperature, mean: 47°1

,, max. in sun: 109°4

,, ,, ,, shade: 57°1

,, min. ,, shade: 39°2

,, ,, on grass: 32°6

,, accum. above: 42° day-deg. 8.1

,, since 1st January: 405°0

Barometer (mean, Mo. iv, 29°93) in. Mo. iv, 2°27 in. on 14 days

Rainfall (mean, Mo. iv, 10°28 in. on 14 days) 0.076 in.

Wind, direction, &c.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Myosotis arvensis 89-138, Field Scorpion-grass or Forget-me-not. Fields,

Fragaria vesca 85-132, Wild Strawberry.

Hedge banks, woods.

Valerianella olitoria 82-139, Com. Corn-Salad, Lamb's-lettuce Milk-grass, "White Pot-herb." Cornfields

Euphorbia amygdaloides 84-140, Wood Spurge. Thickets

LOOK FOR Barren Brome Grass 128, Rye Grass 128, Sheep's Sorrel 130, Hairy Tare 138.

Trees and Shrubs leafing; seeds germinating.

[Fagus sylvatica, Beech tree, Hoff. Gies.]

Insects, Larvae &c. appearing.

LOOK FOR Copper B. 137, Alexis Blue B. 146, Grizzle Skipper B. 135, Ruby Tiger M. 131.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Stonechat egg 62. Furze near the ground

Pheasant egg, Phasianus Colchicus, Ring-necked Pheasant. Brushwood on ground.

Goldfinch egg, Fringilla carduelis 52, Goldspink, Goldie. Bushes

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).
Temperature, mean .................. 47°4

" max. in sun .............. 112°3
" " shade .............. 58°2
" min. " shade .............. 37°6
" on grass .............. 31°8

" accum. above 42° day-degs. 8°8
" since 1st January 41°3°8

Barometer (mean, Mo. iv, 29.93) in.

Rainfall since 1st January, 10°36 in.

Wind, direction, &c. ................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings.

Vicia sepium 104-140, Bush Vetch.

Hedges .................................

Arenaria trinervis 84-149, Three-nerved Sandworts. Damp places ..............


LOOK FOR Shining Crane's-bill 125, Salad Burnet 126.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Pieris brassicae 64-163, Com. Cabbage
B. Gardens (lar. vi. & ix. on cabbage)

LOOK FOR Speckled Wood B. 139.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Tree Pipit egg, Anthus arboreus, Pipit Lark. Hedge banks ......................
Sedge Warbler egg 82. Sedge banks ..............

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Temperature, mean..........................48°9

'' max. in sun......................108°1

'' '' shade ......................59'2

'' min. '' shade ......................40'3

'' on grass ......................340

'' accumltd. above 42° day-degs. 9'5

'' since 1st January 423'3

Barometer (mean, Mo. iv, 29'93) in.

{ Mo. iv, 2'27 in. on 14 days }

Rainfall since 1st January, 10'44 in.

{ mean rel. humidity 81% }

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Symphytum officinale 103-134, Comfrey, Back-wort, Bone-set, Knit-back.

River banks ..........................

Sinapis arvensis 72-149, Charlock, Corn Mustard, Field Kale, Brassock. Cornfields

Lamium Galeobdolon 101 - 136, Yellow Archangel, Weasel's-snout, Yellow Dead-nettle. Thickets ..........................

Carex praoez 95-133, Vernal Sedge. Heaths

LOOK FOR Cleavers 129, Narrow Oat-grass 144, Lily of the Valley 128.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Melanippe Fluctuata 93-139, Garden Carpet M. Gardens (lar. v. & ix. on cabbage)

LOOK FOR Peppered M. 147, Angle Shades M. 150.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Wood Warbler seen, Phylloscopus (Sylvia)

Syviicola 127, Yellow Wood Wren......

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).........................
Temperature, mean......................48°3
  ,, max. in sun.....................104°8
  ,, ,, shade .................... 57°3
  ,, min. ,, shade .............. 41°2
  ,, on grass .............. 36°0
  ,, accumul.td. above 42° day-degs. 8°3 since 1st January 431°6
Barometer (mean, Mo. iv, 29°93) in.
  Mo. iv, s°27 in. on 14 days
Rainfall since 1st January, 10°51 in. 076 in.
  mean rel. humidity 85 %
Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
AJUGA REPTANS 101-138, Com. Bugle,
  Brown Bugle, Middle Consound. Moist
  wood .................................. Brassica rapa 91-152, Turnip.
  Fields................................
                      Medicago lupulina 95-138, Black Medick,
  None-such, Hop-Melilot, Yellow Clover.
  Waste places ........................
Saxifraga granulata 101-138, Meadow Saxifrage, Fair Maid-of-France, First-of-
  May. Meadows ........................
Bromus mollis 102-132, Soft Brome-grass,
  Blubber, Bull, Cock, Goose, Haver,
  Hooded Grass. Waysides.............
[Pyrus Malus, Apple? Hoff. Gies.] 125...

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
CHIFF-CHAFF egg, 69. Grassy banks......
Meadow Pipit egg, Anthus pratensis 99,
  Tit-lark, Ling-bird. Grassy ground ...

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Temperature, mean..........................$46.9^\circ$  

max. in sun..................$109.8^\circ$  

"" "" shade ..........$56.3^\circ$  

min. "" shade ..........$39.7^\circ$  

"" on grass ..........$34.9^\circ$  

"" accumld. above $42^\circ$ day-degs. 80  

since 1st January $439.6^\circ$  

Barometer (mean, Mo. iv, 29.93) in.  

{ Mo. iv, 2.27 in. on 14 days }  

Rainfall since 1st January, 10.59 in.  

{ mean rel. humidity 81% }  

Wind, direction, &c..........................  

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms  

Geranium molle 90-159, Dove's-foot  

Crane's-bill or Ger. Waste places .....  

Lychnis diurna 101-142, Red Campion,  

Adder's- or Devil's-flower. Damp banks...  

Carex glauca 106-132, Glaucous Heath  

Sedge, Gilliflower-grass. Moors........  

LOOK FOR Tormentil 129, Wood Sedge  

130, Wood Sanicle 132, Cock's-foot Grass  

133, Solomon's Seal 137, Scarlet Pim- 

pernel 156.  

Trees and Shrubs leafing; seeds ger- 

minating.  

Insects, Larvae &c. appearing.  

Fish. Reptiles.  

Birds: migration, song, nesting, &c.  

Bullfinch egg, Loxia pyrrhula, Nope,  

Pope, Hoop. Blackthorn bushes, &c...  

Wren Com. egg, Troglodytes vulgaris 17,  

Kitty or Jenny Wren. Tree-trunks, Ivy  

Redstart egg 91. Holes in trees and  

walls ........................................  

Red-legged Partridge egg, Pardix rufa,  

French Partridge. Grassy ground.....  

Animals: seen, breeding, &c.  

Fishing. Sports.  

Salmon (S). Trout (T)..........................
Temperature, mean..........................47°1

max. in sun..........................113°7

,,,, shade ..........................57°5

min.,, shade ..........................37°9

,, on grass ..........................32°7

,, accumltd. above 42° day-degs. 9°4

,, since 1st January 449°0

Barometer (mean, Mo. iv, 29°93) in.

Mo. iv, 2°27 in. on 14 days

Rainfall : since 1st January, 10°66 in.

mean rel. humidity 81%0

Wind, direction, &c. .............................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

* Sarothamnus (Spartium) scoparius 82-143
* Com. Broom, Beesom. Commons.........
* Geum rivale 91-138, Water Avens, Drooping Avens. Damp woods ......................
* Carex riparia 95-142, Gt. River Bank Sedge. Ditches ..............................


Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Dragon-fly (Libellula) appears (G.W.)........

LOOK FOR Orange-tip B. 128.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Goatsucker or Night-jar seen, Caprimulgus europaeus 127......................

Ring Ouzel egg 99. Dry banks and ledges of rocks ...........................

Whatear egg 56. Quarries..................

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)......................
Temperature, mean........46° 5
" max. in sun........109° 8
" " shade ............55° 5
" min. " shade ........38° 8
" on grass ...........32° 6

" accumltd. above 42° day-degs. 7° 5
" since 1st January 456° 5

Barometer (mean, Mo. v, 30° 01) in.
Mo. v, 2° 11 in. on 12 days
since 1st January, 10° 73 in.
mean rel. humidity 77 %

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Chelidonium majus 93-144, Gt. Celandine,
Swallow-wort. Shady places ................
Viburnum Lantana 107-136, Mealy Guelder
Rose, Wayfaring-tree. Woods ............
LOOK FOR Ramsons 131, Bird’s-foot
Trefoil 137, Rock Rose 140, White
Campion 140, Dutch Clover 140, Prickly
Sow-thistle 147, Musk Thistle 159.

Trees and Shrubs leafing; seeds germinating.
[Quercus pedunculata l., Oak 133, Hoff.
Giessen] 133, 134, 293 ..................

Insects, Larvæ &c. appearing.
Aphis humuli (beginning of May—C.W.),
The Hop Fly. Hop gardens ..................
Glow-worm (Lampyris noctiluca) appears
(G.W.) ..................................
LOOK FOR Barred Hook-tip M. 131,
Scarce Purple and Gold M. 159.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Black-cap Bunting egg, Emberiia schæ-
niclus, Reed Bunting, Mountain Sparrow.
Reeds, ..................................
Wryneck seen, Yunx torquilla, Cuckoo’s
Mate, Maid or Messenger. ..............
Turtle Dove seen, Columba Turtur, 129.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .....................
Temperature, mean..................46°5
    max. in sun..................114°6
    " " shade...................57°3
    min. " shade..................36°8
    " on grass..................31°7
    accumltd. above 42° day-degs. 8°
    " since 1st January 464°5
Barometer (mean Mo. v. 30°01) in.
    Mo. v. 2°11 in. on 11 days
Rainfall: since 1st January, 10°60 in.; 068 in.
    mean rel. humidity 77 %
Wind, direction, &c..............................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
    Polygala calcarea 109-138, Chalk Milkwort. Chalky downs ......................
    LOOK FOR Sheep’s Fescue 134, Lady’s Fingers 136, Columbine 139, Hedge Mustard 140, Flote Grass 149.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c, appearing.
    Field Cricket (Gryllus campestris) crinks (G.W.) ..........................

Fish. Reptiles.

Birds: migration, song, nesting, &c.
    Whitethroat egg 103. Thicket, shrubs ...

Animals: seen, breeding, &c.

Fishing. Sports.
    Salmon (S). Trout (T).............. .......
Temperature, mean................. 46°8

"  max. in sun................. 109°0

"  "  " shade ............... 57°2

"  min.  "  shade ............ 37°9

"  "  on grass.............  31°8

"  accumltd. above 42°day-degs.  7°2

since 1st January 47°7

Barometer (mean, Mo. v, 30°01) in.

\{ Mo. v 2°11 in. on 12 days \}

Rainfall, since 1st January, 10°87 in.

\{ mean rel. humidity 77 \%

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Narcissus poeticus 123, Poet’s Narcissus,

Whitsun Lily. Gardens, woods.............

Asterula odorata 111-142, Sweet Woodruff,

Mugwort, Sweet Grass. Shady woods ...

Valeriana dioica 111-141, Marsh Valerian.

Marshes.................................

Carex paludosa 105-141, Lesser River

Sedge. Ditches .........................

[ Lonicera tatarica, Tartarian Honeysuckle,

Hoff. Gies.] 177 ........................

LOOK FOR Downy Out-grass 133, Creep-
ing Fescue 133, Elder 147, Long-stalked

Crane’s-bill 150, Parsnip 153.

Trees and Shrubs leafing; seeds ger-

minating.

Insects, Larvae &c. appearing.

LOOK FOR Death’s-head Hawk M. 219,

Orange Footman M. 131, Flounced Rus-
tic M. 223, Com. Pug M. 139.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Garden Warbler egg 78. Nettles and tall
grass ......................................

Hawfinch egg, Coccothraustes vulgaris,

Grosbeak. High branches of trees ......

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)..............
Temperature, mean..........................45°8

'' max. in sun..........................114°9
'' '', '', shade ......................56°0
'' min. '', shade .....................37°2
'' '', on grass.........................30°8

'', accum. ltd. above 42° day-degs. 7°2

since 1st January 478°9

Barometer (mean, Mo. v., 30°01) in.

Rainfall since 1st January, 10°94 in. = 068 in.

(mean rel. humidity 77%)

Wind, direction, &c. ..............................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings


Trifolium pratense 114-140, Com. Purple Clover or Trefoil, "Bee-bread." Fields Sherardia arvensis 114-179, Sherardia, Field Madder, Spur-wort. Cornfields...


[Narcissus poeticus, Hoff. Gies.] 123.........

LOOK FOR Mountain Ash 134, Twayblade 140, Horseshoe Vetch 142, Gromwell, Soft-grass 143, Purging Flax, Yellow Pimpernel 144, Corn Feverfew 151.

Trees and Shrubs leafing; seeds germinating.

[Beech forest green, Hoff. Gies.] 100, 115, 288. ........................................

Insects, Larvae &c. appearing.

Anticlea derivata 111-150, The Streamer M. (lar. vi. on dog-rose, honeysuckle) ...

LOOK FOR Clouded Silver M. 144, Grey Pug M. 145.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

WILLOW WREN egg 88. Banks, thickets

Lesser Redpole seen, Linaria minor, 128

LAND-RAIL or Corn Crake egg 111. Grass ground ......................................

Snipe departs, Scolopax gallinago 254 ....

Animals: seen, breeding, &c,

Fishing. Sports.

Salmon (S). Trout (T)........................
Temperature, mean..........................48°2

\"\" max. in sun..........................116°8

\"\" \" shade ....................59°2

\"\" min. \" shade ....................38°4

\"\" on grass ....................32°4

\"\" accumul'd. above 42° day-degs. 8°9

\"\" since 1st January 487°8

Barometer (mean, Mo. v, 30°01) in.

\{ Mo. v, 2°11 in. on 12 days \} in.

Rainfall \{ since 1st January, 11°00 in. \} in.
mean rel. humidity 77 %

Wind, direction, &c. ......................

Plants and Trees blooming; note if surviving, premature, or 2nd blossomings
SYRINGA VULGARIS 102-151, Com. Lilac, Pipe-tree. Shrubberies ......................
ACER PSEUDO-PLATANUS 111-142, Sycamore, Mock-Plane tree. Parks ..............
PYRUS MALUS 106-149, Crab-apple tree.

Hedges ........................................

Fumaria officinalis 53-151, Com. Fumitory. Cornfields ............................
Barbarea vulgaris 110-132, Com. Winter Cress, St. Barbara’s Herb, Winter or
Yellow Rocket. Damp places ..............
Geranium lucidum 116-144, Shining-leaved Crane’s-bill. Rocks, walls ..............
LOOK FOR Bog Stitchwort 137, Mouse-
car Hawkweed 138.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
LOOK FOR Coxcomb Prominent M. 161,
Clay triple-lines M. 155, White-pinion
Spotted M. 142.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Blackcap Warbler egg, 81. Hedges, Scrub
Lesser Whitethroat seen, Curruca sylvieila
133, Brake Nightingale ........................
Woodlark egg, Alauda arbores 24. Grassy
tufts ..............................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .......................
Temperature, mean.................49°2
" " max. in sun..................116°6
" " " shade ..................60°6
" " min. " shade ................40°2
" " on grass ..................34°1
" " accumltd. above 42° day-degs. 10°
" " since 1st January 497°8
Barometer (mean, Mo. v, 30'01) in.
\( \text{Mo. v, 2'}12 \text{ in. on } 12 \text{ days} \)
Rainfall since 1st January, 11'07 in. 068 in.
\( \text{mean rel. humidity } 77 \% \)
Wind, direction, &c. .................. Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
\( \text{Æsculus Hippocastanum 108-151, Horse Chestnut. } \)
\( \text{Parks} \)
\( \text{Poterium Sanguisorba 116 - 140, Salad Burnet. } \)
\( \text{Chalk heaths} \)
\( \text{Alchemilla vulgaris 112-139, Lady's Mantle, } \)
\( \text{Lion's-foot, Gt. Senicle. } \)
\( \text{Hill pastures} \)
\( \text{Staphylea pinnata 100-149, Com. Bladder- } \)
\( \text{nut, Anthony-nut. } \)
\( \text{Shrubberies} \)
\( \text{Orchis Morio 106 - 135, Green - winged } \)
\( \text{Orchis, Crake-foot. } \)
\( \text{Pastures} \)
\( \text{Scandix Pecten-Veneris 110-161, Venus- } \)
\( \text{Lady's, Shepherd's - Comb. } \)
\( \text{Cornfields} \)
\( \text{Lithospermum arvense 96-165, Corn Grom- } \)
\( \text{well. } \)
\( \text{Waste places} \)
\( \text{LOOK FOR Silver Weed 135, Holly 138, } \)
\( \text{Brook - lime 142, Dwarf dark - winged Orchis 153. } \)

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
\( \text{Polyommatus Argiolum 105-173 and 223, } \)
\( \text{Azure Blue B. } \)
\( \text{Holly (lar. vi.-ix on holly)} \)
\( \text{LOOK FOR Eyed Hawk M. 164, Cinnabar M. 150, Brown Silver-line M. 140. } \)

Fish. Reptiles.

Birds: migration, song, nesting, &c.
\( \text{Red-backed Shrike egg, Lanius collurio, } \)
\( \text{Lesser Butcher-bird. Bushes } \)
\( \text{Kingfisher egg, 68. Holes in river banks... } \)

Animals: seen, breeding, &c.

Fishing. Sports.
\( \text{Salmon (S). Trout (T). } \)
Temperature, mean...49°

max. in sun...115.8

,,,, ,, shade...59.4

,, min. ,, shade...40.2

,, on grass...33.6

,, accumld. above 42° day-degs. 10.1

since 1st January 507.9

Barometer (mean, Mo. v, 30.01) in.

Mo. v, 23.11 in. on 12 days

Rainfall (since 1st January, 11.14 in.)

mean rel. humidity 77%

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Pedicularis sylvatica 107-151, Com. Louse-wort, Red Rattle. Moist pastures


Geum urbanum 94-157, Wood Avens, Clove-root, Herb-Bennet. Hedge banks

Bromus erectus 109-147, Upright Brome-grass. Sandy fields...................

Primula Padus 113, Bird-cherry. Woods...

[Aesculus Hippocastaneum, Horse Chesnut Hoff. Gies.] 100, 126, 259, 283...........

LOOK FOR Lamb's Tongue 144, Snake-weed 145, Long-rooted Cat's-ear 146, Ragged Robin 147.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

LOOK FOR Golden Eye B. 142, Dingy Skipper B. 137, Large Ermine M. 143, Small White Wave M. 141, Com. White Wave M. 143.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Goatsucker egg, Caprimulgus Europaeus, Night-jar, Night - Hawk, Fern - Owl, Churn-Owl. Fern, heather, &c. .........

Wood Warbler egg 117. Thickets ...........

Animals: seen, breeding, &c.

Fishing. Sports. Cricket Season at Lord's begins.

Salmon (S). Trout (T).............. ..
Temperature, mean.........................49°3

" max. in sun..................117°9
" " " shade ..............60°0
" min. " shade ..............39°4
" " on grass ..............33°8

" accumltd. above 42° day-degs. 9°3
" " since 1st January 517°2

Barometer (mean, Mo. v., 30°01) in.

Rainfall (Mo. v. 2°11 in. on 12 days) in.

Winds, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 1st blossomsings

POLYGALA VULGARIS 114-164, Milkwort,

Rogation-, Procession - flower, Cross - flower. Heaths .........................
Bromus sterilis 115-138, Barren Brome or Drake Grass. Fields .........................
Loilium perenne 115-147, Rye-, Ray-grass,

Darnel-grass. Fields .........................
Convallaria majalis 117-140, Lily-of-the-Valley. Woods .........................

LOOK FOR Scarlet Clover 141, Rough Meadow Grass 142.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

ANTHOCHARIS CARDAMINES 120 - 151,
Orange-tip or Wood-Lady B. Fields
(lar. vii. on Cardamine) .........................

LOOK FOR Small Purple-barred M. 151,
Silver-ground Carpet M. 142, Nettle-tip M. 148.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Lesser Redpole egg, 124. Thorn bushes,

Cuckoo egg 92. Various birds' nests.....

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .........................
Temperature, mean...............48°2

\[\begin{align*}
\text{max. in sun} & : 114'6 \\
\text{max. in shade} & : 58'3 \\
\text{min. in shade} & : 39'8 \\
\text{on grass} & : 34'9 \\
\text{accumulated above} & : 9'3 \\
\text{since 1st January} & : 526'5 \\
\text{Barometer (mean, Mo. V, 30'01) in.} & \\
\text{Mean rel. humidity} & : 77\% \\
\end{align*}\]

Barometer (mean, Mo. V, 30'01) in. since 1st January, 11'28 in. 
Rainfall, since 1st January, 11'28 in. 

Wind, direction, &c.  

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

**Galium Aparine** 117-149, Cleavers, Bur-weed, Goose-grass. **Hedges**

**Acer campestre** 112-146, Com. Maple tree. **Hedges**

**Trifolium minus** 85-151, Lesser Hop Trefoil, Yellow Trefoil. **Pastures**

**Potentilla Tormentilla** 119-144, Tormentil, Blood-root, Ewe-daisy. **Heaths**

**Crataegus Oxyacantha** White thorn, Hoff.

**LOOK FOR** Cut-leaved Crane's-bill, Yellow Rattle 141, Quaking Grass 143, Floating Foxtail Grass 152, Hairy Brome Grass 158, Burnet Saxifrage 165.

Trees and Shrubs Leafing; seeds germinating.

Insects, Larvae &c. appearing.

**LOOK FOR** Poplar Hawk M. 166, Grey Dagger M. 160.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Grasshopper Warbler egg 85. **Herbage**

Swift egg 103. **Holes in roofs, &c.**

Turtle Dove egg 120. **Tree branches**

Spotted Flycatcher egg 105. **Shrubs and climbers**

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).
Temperature, mean..........................48°0

" max. in sun.....................109'9

" " shade ..................57'4

" min. " shade .................40'2

" on grass ..................34'4

" accumlted. above 45° day degs. 8'5

" since 1st January 535'0

Barometer (mean, Mo. v, 30'01) in.

Mo. v, 27'11 in. on 12 days

Rainfall (since 1st January, 11.34 in.) in.

mean rel. humidity 77%

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Myosotis versicolor 110-145, Changeable

Scorpion Grass or Forget-me-not. Damp

meadows

Carex sylvatica 119-144, Wood Sedge.

Damp woods

Milium effusum 111-151, Millet Grass.

Shady woods

Rumex Acetosella 115-161, Sheep’s Sorrel.

Dry pastures

LOOK FOR Ox-eye Daisy 141, Cow

Wheat 149, Deadly Nightshade 139.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Hemerophilia abruptaria 109-150, Waved

Umber M. Gardens (lar. vi. on lilac, rose, privet) ................................

LOOK FOR Pearl-bordered Fritillary B.

141, Yellow-tail M. 192, Burnet M. 144.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Green Woodpecker egg, Picus veridis,

Rainbird, Popinjay. Holes in trees ......

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).
131-234, Mo. V., MAY 11, 188

Temperature, mean..........................48° 9

‘’, max. in sun......................114'4

‘’, ‘’, shade ..................58'1

‘’, min. ‘’, shade ..........41'5

‘’, on grass .................36'8

’’, accumltd. above 42° day-degs. 9'1

‘’, since 1st January 544'1

Barometer (mean, Mo. v. 30'01) in.

{Mo. v., 2'11 in. on 12 days}

Rainfall: since 1st January, 11'41 in.

{mean rel. humidity 77 %}

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Chenopodium B. Henricus 109-177, Good King Henry, Perennial Goose-foot, All-good, Flowing Docken. Waste places...

Allium ursinum 121-151, Ramsoms, Bear's Garlick, Gipsy Onion. Woods ............

Melica uniflora 111-152, Melic Grass, Wood Melic. Shady woods ..............

LOOK FOR Smooth Hawk's-beard 148, Gout-weed 151,

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Lithosia aureola 123-136, Orange Footman

M. Larch trees (lar. ix-v. on lichens)...

Arctica (Phragmatobia) fuliginosa 115-142, Ruby Tiger M. (lar. iv. & viii. on docks)

Drepana falcata (falcata ?) 121-215,

Barred Hook-tip M. (lar. vii.-x. on —),...

Coremia ferrugata 122-144, Red Twin-spot Carpet M. (lar. vii. & ix. on chickweed) ..............

LOOK FOR Meadow Brown B. 168, Silver Gamma M. 156, Little Emerald M. 143,

Scorched Carpet M. 155, Purple Bar M. 158, Broken Bar Carpet M. 150, Crimson and Gold M. 163.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c,

Fishing. Sports.

Salmon (S). Trout (T)...............
Temperature, mean .................. 50°1

,, max. in sun .................. 112°8
,, ,, ,, shade ............ 60°2
,, min. ,, shade ............ 41°6
,, ,, on grass ............ 36°8

,, accumltd. above 42° day-degs. 10°2
,, ,, since 1st January 554°3

Barometer (mean, Mo. v. 30°01)  in.

Mo. v. 2°11 in. on 12 days

Rainfall 

Mo. v. 11°48 in.

mean rel. humidity 77°%

Wind, direction, &c. ........................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Sanicula Europaea 119-151, Wood Sanicle.

Woods ........................................

Saxifraga umbrasa 120, London Pride,

None-so-Pretty, St. Patrick's Cabbage.

Irish mountains ........................................

Borage officinalis 132, Borage, Tale-wort,

Waste places ........................................

[Spartium scoparium. BroomHoff. Gies.] 120

LOOK FOR Cock's-head Saintfoil 143,

Rough Hawk-bit 146, Welted Thistle

147, Hound's-tongue 149, Poppy 154,

Field Scabious 160, Curled Dock 162,

Carrot 163, Fool's Parsley 170.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

LOOK FOR Duke of Burgundy B. 150,

The Shipton M. 149.

Fish. Reptiles...

Birds: migration, song, nesting, &c.

Whinchat egg 68. Whins, Scrub, &c... 

Com. Bunting egg, Emberiza militaria,

Bunting Lark. Grassy banks, tufts ......

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).................
Temperature, mean ......................49°4

,, max. in sun ......................114°5

,, ,, shade ..........................59°4

,, min. ,, shade ......................41°6

,, on ground ..........................34°8

,, accumulatd. above 42° day-degs. 9°6

,, since 1st January 563°9

Barometer (mean, Mo. v, 30°41') in.

Mo. v, 2°41 in. on 12 days

Rainfall since 1st January 11°56 in. 0°68 in.

mean rel. humidity 77 %

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

**Crataegus Oxyacantha** 120-155, Hawthorn, Whitethorn, May. *Hedges* ...


*Quercus Robur* 110-150, Com. Oak (2, pedunculata, Long-flower-stalked Oak).

*Parks* ..............................

**Dactylis glomerata** 119-146, Cock’s-foot Grass, Orchard Grass. **Fields** ............

*Avena pubescens** 123-141, Downy Oat-grass. **Chalky pastures** ..............

*Festuca rubra* 123-149, Red or Creeping Fescue-grass. **Dry pastures** ...........


Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

*Rumia crataegata* 108-154, Brimstone, M. *Hedges* (lar. vi. & ix.-iii. on hawthorn)

**LOOK FOR** Green Hair-streaked B. 147, Light Tussock M. 156, The Rivulet M. 154, Hop or Plant Bug 153.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

**FIELDFARE** last seen, **Turdus pilaris** 272, Lesser Whitethroat egg 125. **Thickets** ...

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .....................
Temperature, mean .......... 50°2

```
max. in sun............. 117° 7

" " " shade .......... 59° 6

min. " shade .......... 42° 6
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```
on grass................. 37° 7
accumulated above 42° day-degs. 10° 3

since 1st January 57° 2
```

Barometer (mean, Mo. v., 30°01) in.

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Mo. v., 2°11 in. on 12 days
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Rainfall: since 1st January 11°62 in.

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mean rel. humidity 77 %
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Wind, direction, &c. ..........................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms


Sagina procumbens 95-150, Pearl-wort, Pearl-weed. Dry places.


Festuca ovina 122-149, Sheep's Fescue-grass. Dry pastures

[Laburnum, Hoff. Gies.] above............................

Trees and Shrubs leafing; seedy germinating.


Insects, Larvae &c. appearing.

Demas Coryli 91-185, Nut-tree Tussock M. Beech woods (lar v. x. on beech) ... Euacanthus interruptus, The Hop Jumper ("middle of May"—C.W.) Hop gardens

LOOK FOR Small Swift M. 151, Maiden Blush M. 152, Green Carpet M. 153.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).
Temperature, mean..........................50° 1

,, max. in sun....................118° 0

,, ,, ,, shade ...............59° 2

,, min. ,, shade ................42.5

,, on grass.......................37° 6

,, accumnltd.above 42° day-degs. 10° 1

,, since 1st January 584.3

Barometer (mean, Mo. v, 30°01) in.

Mo. v, 2°11 in. on 12 days

Rainfall since 1st January, 11°68 in. mean rel. humidity 77°/o

Wind, direction, &c. ........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings.

POTENTILLA ANSERINA 126-149, Silver Weed, Goose-, Dog's-Tansy, Argentine.

Roadsides ................................

Secale cereale 114-163, Com. Rye. Fields

......

Vicia sativa 113-173, Com. Vetch, Fitches, Lints (lentils). Fields

Fagus sylvatica, Com. Beech (G.W.) 100...

LOOK FOR Meadow Vetchling 154, Yellow Flag 153, Crested Hair-grass 155, Corn Cockle 171.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.


Fish. Reptiles.

Birds: migration, song, nesting, &c.

SAND MARTIN egg 98. Holes in sandy banks.

Animals: seen, breeding, &c.

Fishing: Sports.

Salmon (S). Trout (T)....................
Temperature, mean........................................50°1

" max. in sun..................119°8

" " " shade ..........59'1

" min. " shade ........41'7

" " on grass ..........36'6

" accumltd. above 42° day-degs. 10'3

since 1st January 594'6

Barometer (mean, Mo. v, 30'01) in.

Rainfall since 1st January, 11'75 in. '068 in.

(mean rel. humidity 77 %)

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings


Heracleum Sphondylium 114-165, Hogweed, Com. Cow or Meadow Parsnip, Eltrot. Waste places ..............

Bunium flexuosum 120-159, Pig-nut, Earthnut, St. Anthony's-nut. Pastures ......

[Cidonia vulgaris, Quince, Hoff. Gies.] ... [Sorbus aucuparia b. Mountain Ash, Hoff. Gies.] 134, 211..........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Eupithecia abbreviata 114-161, Short-winged Pug. M. (lar. vi.-vii. on oak) ...

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Swallow egg 82. Chimneys, roofs ......

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).........................
Temperature, mean..........................49°9
      ,, max. in sun..................144'2
      ,, ,, shade ..............60'0
      ,, min. ,, shade ...........41'0
      ,, on grass ............36'2

,, accumltd.above 42° day-degs. 10'7
,, since 1st January 605'3
Barometer (mean, Mo. v, 30'01) in.
      Mo. v, 2'11 in. on 12 days
Rainfall since 1st January, 12'82 in.
      mean rel. humidity 77 %
      ,, 068 in.

Wind, direction, &c. ..................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Dry places............................................
Stellaria uliginosa 125-151, Bog Stitchwort or Starwort. Bogs........................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Chrysophanus Phleas 115-161, Copper B. Fields, lanes (lar. v.-x. on docks)........

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).........................
Temperature, mean ................. 50°1

\[
\begin{align*}
\text{max. in sun} & : 117'0 \\
\text{max. in shade} & : 60'5 \\
\text{min. in shade} & : 41'2 \\
\text{on grass} & : 35'9 \\
\text{accumulated above 42° day-degrees} & : 10'8 \\
\text{since 1st January 616'} & \\
\text{Barometer} \text{ (mean, Mo. V., 30'01) } & : \text{in.} \\
\text{Rainfall} \text{ since 1st January, 11'89 in.} & : 068 \text{ in.} \\
\text{mean rel. humidity 77%} & \\
\end{align*}
\]

Wind, direction, &c. .....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
HIERACIUM PILOSELLA 125-159, Mouse-ear Hawkweed. Dry banks ................
Vicia hirsuta 115-168, Hairy Tare, Com. Tare. Waste places ..................
Ilex Aquifolium 126-156, Holly, "Christmas." Woods ..............................
Alopecurus agrestis 110-181, Black-, Hunger-, Slender-, Mousetail-grass. Pastures
LOOK FOR Hop Trefoil, Forget-me-not
158, Broad-leaved Dock 160, Raspberry 152.

Trees and Shrubs leafing; seeds germinating.
Walnut (Juglans regia) leafing (G.W.)......

Insects, Larvae &c. appearing.
Smerinthus Titia 130-170, Lime Hawk M. On trees, failings (lar. viii.-ix. on lime) .....................

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ....................
Temperature, mean..........................50°9
    ,, max. in sun......................118°2
    ,, ,, ,, shade ...............61°6
    ,, min. ,, shade ..............41°3
    ,, ,, on grass ...............35°1

    ,, accumul. above 42° day-degs. 10°6
    ,, ,, since 1st January 626°7
Barometer (mean, Mo. v. 30°01) in.
    Mo. v. 2°11 in. on 12 days
Rainfall
    since 1st January 11°96 in.
    mean rel. humidity 77 %

Wind, direction, &c. .......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Atropa Belladonna 130-149, Deadly Nightshade, Bane-wort, Dway-berries.
Waste places..............................
Thickets.................................
Equisetum limosum 106-173, Marsh or Smooth Horse-tail. Bogs ...................

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Lasiomnata Ægeria 116-179, Speckled Wood B. Woods (lar. vi.-iii. on grasses)
Lasiomnata Megexra 120-161, The Wall B. Banks (lar. vi.-iv. on grasses)........
Eupithecia vulgaris 123-154, Com. Pug M. (lar. vii.-ix. on hawthorn) ...........
LOOK FOR Treble-lines M. 163, Cream Wave M. 150, Argent and Sable M. 163,
Marbled Carpet M. 170.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .......................

139-226, Mo. V., MAY 19, 188
Temperature, mean..................51°3

,, max. in sun.................121°7
,, ,, ,, shade ..............62°7
,, min. ,, shade ..............41°8
,, ,, on grass ................36°0
,, accumltd. above 42° day-degs. 11°2
,, ,, since 1st January 637°9
Barometer (mean, Mo. V, 30°01) in.
{Mo. V, 31°11 in. on 12 days
Rainfall (since 1st January, 12°02 in. mean rel. humidity 77°\%}
{068 in.
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
TRIFOLIUM REPENS 121-167, Dutch or White Clover. Pastures ............
Sisymbrium officinale 122-159, Com. Hedge Mustard, Bank Cress or Rocket. Waste places ..................
Listera ovata 124-162, Tway-blade, Bifoil, Double-leaf. Moist pastures ...........
Helianthemum vulgare 121-166, Rock Rose, Sun Rose. Chalky pastures .......
Lychnis vespertina 121-166, White Cam- pion or Catchfly. Fields ............
LOOK FOR Meadow Crane’s-bill 153; Creeping Cinquefoil 159.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).................
141-224, Mo. V., MAY 21, 1888

Temperature, mean....................... 52°9

" max. in sun................... 118°6
" " shade .................... 63°6
" min. " shade ................ 43°6
" on grass ................. 38°6

" accumltd. above 42° day-degs. 12°5

since 1st January 65°4

Barometer (mean, Mo. V., 30°01) in.

(Mo. V., 2°11 in. on 12 days)

Rainfall (since 1st January, 12°09 in.) 0°68 in.

mean rel. humidity 77%  

Wind, direction, &c. ........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms:

CHRYSANTHEMUM LEUCANTHEMUM 130-159, Gt. White Ox-eye, Moon-flower, White Bothen, Espibawn.  Dry pastures

Geranium dissectum 129-168, Cut or jagged-leaved Crane's-bill.  Waste places...

Trifolium incarnatum 128-158, Scarlet or Crimson Clover.  Fields ...........................

Rhinanthus Crista Galli 129-177, Com. Yellow Rattle, Cock's-comb Grass.  Dry pastures..............................

LOOK FOR False Oat 152, Spotted Hand Orchis 155, Water Cress 156, Bladder Campion 157, Milfoil 158.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Argynnis Euphrosyne 130-169, Pearl-bordered Fritillary B.  Woods (lar. vii.-v. on violets).............................

Asthena Candida 127-163, Small White Wave M.  Woods (lar. iv. on hornbeam)

Strenia Clathrata 112-188, Letticed Heath M.  Saintfoil fields (lar x.-iv. on lucerne)


Fish. Reptiles.

Birds: migration, song, nesting, &c.

HOUSE MARTIN egg 81.  Eaves of houses.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S).  Trout (T).....................
Temperature, mean ..................... 52°\,3
    " max. in sun .................. 118°\,7
    " " shade ..................... 62°\,8
    " min. " shade ................ 43°\,6
    " on grass ................... 37°\,5
    " accumltd. above 42° day-degs. 11°\,7
since 1st January 662°\,1
Barometer (mean, Mo. v., 30°\,01) in.
Rainfall (since 1st January, 12°\,16 in.) 0\,68 in.
mean rel. humidity 77°
Wind, direction, &c. ....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Veronica Beccabunga 126-165, Brook-lime,
          Cancer-wort. Ditches ...................
Poa trivialis 128-155, Rough Meadow
          Grass, Fowl-grass. Meadows ............
Hippocrepis comosa 124-164, Horseshoe
          Vetch. Chalky pastures..............
LOOK FOR Marsh Thistle 154, Dog
          Rose, Black Briony 155, Guelder Rose
          156, Red Briony 158.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Ceanonympha Pamphilus 127-158, Golden-
       eye or Small Heath B. Fields (lar. v. viii. on grasses).......................
Corycia Taminata 125-186, White-pinion
       Spotted M. Woods (lar. vii. on wild cherry) .........................
Melanippe Montanata 128-160, Silver-
       ground Carpet M. Woods (lar. x.iii. on primrose) ....................
LOOK FOR Scabious or Greasy B. 145,
       Drab Looper M. 157.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ....................
Temperature, mean..............51°-8

,, max. in sun ..............114°-1
,, ,, ,, shade ..............62°-1
,, min. ,, shade ..............42°-6
,, ,, on grass ..............36°-3
,, accumltd. above 42° day-degs. 11°-2
,, ,, since 1st January 673°-3

Barometer (mean, Mo. V, 30°-1) in.

Mo. V. 2'11 in. on 10 days

Rainfall (since 1st January, 12°-23 in.) -068 in.

mean rel. humidity 77% 

Wind, direction, &c..........................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings


Holcus lanatus 124-169, Soft-grass, Dart-, Duffel-, Hose-grass. Meadows.............

Briza media 129-153, Com. Quaking- grass, Dodder, Shaking-grass, Lady's Hair. Downs..........................


Trees and Shrubs leafing: seeds germinating.

Insects, Larvae &c. appearing.

Iodis Lactearia 131-150, Lit. Emerald M. Woods (lar. ix. on oak, birch) ..........

Cabrera Pusaria 127-158, Com. White Wave M. Woods (lar. vii.-ix. on oak, alder)..........................

LOOK FOR Uniform Rustic M. 158, Wasp, female, Vespa vulgaris (G.W).

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ......................
Temperature, mean ..................52°0

max. in sun..................113°3

" " " shade ..................63°5

" " " shade ..................41°4

" " on grass ..................35°2

" " accum ltd. above 42° day-degs. 11°9

since 1st January 685°2

Barometer (mean, Mo. V., 30°01) in. Mo. V., 2°11 in. on 12 days

Rainfall: since 1st January, 12°30 in. 0°68 in.

(mean rel. humidity 77 %)

Wind, direction, &c..................................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
Linum catharticum 124-164, Purging Flax,
Dwarf, Fairy, Mountain Flax. Heaths,
Lysimachia nemorum 124-167, Yellow
Wood-Pimpernel or Loosestrife. Shady
places ..............................................

Plantago media 127-164, Lamb’s-tongue.
Hoary Plantain, Kemps. Chalky pastures

Avena pratensis 117-167, Narrow-leaved
Out-grass. Dry pastures .................

LOOK FOR Quinancy-wort 167, Trailing
Dog Rose 168.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Euclidia Glyphica 130-167, Burnet M.
Fields (lar v. on white clover) .............
Corycia Punctata 124-186, Clouded Silver
M. .................................................

LOOK FOR Small Blue B. 160, Privet
Hawk M. 166, Com. Fanfoot M. 152.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ....................
145-220, Mo. V., MAY 25, 188

Temperature, mean .................. 52°.5

,, max. in sun .................. 121°4

,, ,, ,, shade .................. 63°2

,, min. ,, shade .................. 43°1

,, on grass .................. 36°9

,, accumul. above 43° day-degs. 12°

,, since 1st January 697.2

Barometer (mean, Mo. V., 30°01) in.

Mo. V., 2°11 in on 12 days

Rainfall - since 1st January, 12.36 in.

(mean rel. humidity 77 %)

Wind, direction, &c.

Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings

EUONYMUS EUROPÆUS 133-165, Spindle-tree, Cat-tree or wood. Hedges

Cherophyllum temulorum 102-164, Rough Chervil. Waysides

Tragopogon pratensis 120-163, Yellow Goat's-beard, Shepherd's Clock, Joseph's Flower, Star of Jerusalem, Nap-at-noon. Waste places

Polygonum Bistorta 127-177, Snakeweed, Com. Bistort, Easter Giant, Gentle or Patient Dock. Moist meadows


Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Melitoea Artemis 142-161, Scabious or Greasy Fritillary B. Wet meadows (lar. viii.-vi. on Scabious)

Eupithecia Castigata 124-163, Grey Pug M. Pailings (lar. viii.-x. on golden-rod).


Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ............ 11
Temperature, mean..................53°8
       max. in sun................118°8
       max. shade .............64°6
       min. shade ...............45°7
       on grass ...............39°5

accumulated above 42° day-degrees 12°7

since 1st January 709°9

Barometer (mean, Mo. v, 30°01) in.
       Mo. v, 2°11 in. on 12 days

Rainfall; since 1st January, 12°43 in. 0°68 in.
       mean rel. humidity 76°

Wind, direction, &c. ..................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Hypochceris radicata 127-167, Long-rooted Cats’-ear, Capeweed. Dry places
Leontodon hispidus 132-164, Rough Hawk-bit. Pastures
Rubus casius 136-167, Dewberry, Blue Bramble. Heaths

LOOK FOR Thyme 156, Honeysuckle (Woodbine) 165.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Cynthia Cardui 76-179, Painted Lady B. Thistles, roads (lar. vi.-ix. on thistles) ...
Polyommatus Alexis 115-175, Alexis or Com. Blue B. Hills (lar. iv. & viii. on trefoil) ..................................................................................
Diaphora Mendica 122-170, Spotted Muslin M. (lar. viii. on plantain) ..................

LOOK FOR Dark Green Fritillary B. 184, Plain Golden Gamma M. 175, Small Fanfoot M. 161, Small Magpie, M. 166, Sharp-angled Carpet M. 179.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .................. ...
Temperature, mean .......................... 53° 3
  " max. in sun ..................... 117° 2
  " " " shade ............... 62° 5
  " min. " shade ................. 45° 0
  " on grass ............ 38° 9
  " accumltd. above 42° day-degs. 12° 1
  " since 1st January 722° 0
Barometer (mean, Mo. v, 30° 01) in.
  " Mo. v, 2° 17 in. on 12 days
Rainfall
  " since 1st January, 12° 50 in. 1° 068 in.
  " mean rel. humidity 77%
Wind, direction, &c. .................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Lychnis Flos-Cuculi 127-168, Ragged Robin, Meadow Pink. Moist places...
Sambucus nigra 123-174, Elder, Elderberry, Arn-, Boon-, Bounty-tree. Hedges and woods
Carduus crispus 132-203, Welter Thistle (C. acanthoides). Dry waste places....
Sonchus asper 121-175, Com. Prickly Sow-thistle. Waste places
LOOK FOR Gt. Plantain 163, Small Gentian 167.

Trees and Shrubs leafing; seeds germinating.
Morus nigra, Mulberry-tree leafing. (G.W).

Insects, Larvae &c. appearing.
Thecla Rubi 133-169, Green Hair-streaked
  B. Near woods (lar. vii. & x. on Bramble)
Amphidasis Betularia 117-174, Peppered
  M. (lar. viii.-x. on forest trees) .........

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Marsh Tit egg, Parus palustris, Smaller Oxeye. Holes in trees

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .........
Temperature, mean .......................... 53°5

,, max. in sun.......................... 118’5

,, ,, ,, shade .................. 63’1

,, min. ,, shade .................. 46’3

,, ,, on grass.................. 41’2

,, accumltd. above 42° day-degs. 12°5

,, ,, since 1st January 734°5

Barometer (mean, Mo. v, 30’01) in.

Mo. v, 2’11 in. on 12 days ”

Rainfall (since 1st January 12’57 in.) “068 in.

mean rel. humidity 77 %

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Malva rotundifolia 120-186, Dwarf Mal- low. Waste places ......................
Crepis virens 131-180, Smooth Hawk's- beard. Waste places ......................
[Sambucus nigra, Elder, Hoff. Gies.] 147, 123......................................
[Secale cereale, Rye, Hoff. Gies.] 135, 200
LOOK FOR Hedge Bedstraw 168, Field Bindweed 169, Upright Hedge-Parsley 176.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Simethis Fabriciana 128-261, Nettle-tip M. (lar. iv.-viii. on nettle).............. ......
LOOK FOR Red-necked Footman M. 164, Yellow Shell M. 164, Snout M. 177.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T). ......................
Temperature, mean ....................... 53°6
'' max. in sun ......................... 118°5
'' '' , shade .......................... 63°1
'' min. , shade ........................ 46°4
'' on grass ............................ 41°2
'' accumld. above 42° day-degs. 12°6
'' since 1st January 747°1
Barometer (mean, Mo. v, 30°01) in.
Mo. v. 2°31 in. on 12 days
Rainfall since 1st January, 12°64 in. • 068 in.
mean rel. humidity 77 
Wind, direction, &c. .......................... 
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Melampyrum pratense 130-165, Yellow Cow-wheat. Copses .......................... 
Glyceria plicata 122-167, Flote or Floating Grass, Manna-croup. Ditches.
[Atropa Belladonna, Deadly Nightshade, Hoff. Gies.] 139, 213 .......................... 

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.
Spilosoma Lubricepeda 135-169, Spotted Buff M. (lar. viii. on nettle) .......................... 
Euclidia Mi 132-171, The Shipton M. In sunshine (lar. v. on yellow meliot) ......

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ....................... ...
Temperature, mean...............53°2

" max. in sun ..............127°8

" " " shade ..............64°0

" min " shade ............43°4

" on grass...............37°0

" accumld. above 42° day-degs. 12°6

Barometer (mean, Mo. V., 30°01) in.

\[
\begin{align*}
\text{Mo. v. 27°1 in. on 12 days} \\
\text{mean rel. humidity 77°/o}
\end{align*}
\]

Rainfall: since 1st January, 12°70 in. '068 in.

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

\textit{Geranium columbinum} 123-176, Long-stalked Crane's-bill. \textit{Dry places} ................

\textit{Habenaria chlorantha} 137-165, Gt. Butterfly Orchis. \textit{Moist meadows} .............

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

\textit{Nemeobius Lucina} 132-163 and 224, Duke of Burgundy B. \textit{Woods} (lar. vii.-ix. on primrose) ........................................

\textit{Callimorpha Jacobaea} 126-167, Cinnabar M. \textit{Gardens} (lar. v. on ragwort) .........

\textit{Phlogophora Metulosa} 117-184, Angle Shades M. (lar. xi.-iv. on groundsel)........

\textit{Acidalia Remutata} 139-181, Cream Wave M. \textit{Woods} (lar. vii.-iv. on knotgrass)...

\textit{Lomaspilis Marginata} 128-179, Clouded-border M. \textit{Woods} (lar. vii. & ix. on willows) ........................................

\textit{Cidaria Corylata} 131-167, Broken-barred Carpet M. \textit{Woods} (lar. viii.-ix. on lime)

Fish. Reptiles.

Birds: migration, song, nesting, &c.

\textit{Nightingale} egg, 114. \textit{Shrubs, hedges}...

Animals: seen, breeding, &c.

Fishing. Sports.

\textit{Salmon} (S). \textit{Trout} (T).................
Temperature, mean..........................53°3

,, max. in sun...................123'1

,, ,, ,, shade ..............63'6

,, min. ,, shade ..........43'6

,, on grass ..................37'6

,, accumltd. above 42° day-degs. 12'2

,, since 1st January 771'9

Barometer (mean, Mo. v. 30'01) in.

Mo. v. 31'11 in. on 12 days

Rainfall since 1st January, 12'77 in.

(mean rel. humidity 77 %)

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Aegopodium Podagraria 131-177, Gout-weed, Bishop's-weed. Damp places......


LOOK FOR Yellow Oat-grass 158, Creeping Soft-grass 174.

Trees and Shrubs leafing; seeds germinating.

Insects, Larvae &c. appearing.

Hepialus Lupulinus 134-188, Small Swift M. (lar. viii.-v. on dead nettle) .........

Phytometra Aenea 128-171, Small Purple-barred M. Flowers (lar. viii.-ix. on milkwort) ........................................

Odontopera Bidentata 136-171, Scolloped Hazel M. Tree trunks (lar. viii.-ix. on oak, ivy) ........................................

LOOK FOR Tabby M. 178; Mother of Pearl M. 191.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).........................
Temperature, mean..................54°1

,, max. in sun..............121'3

,, ,, shade .................64'4

,, min. ,, shade...............44'7

,, on ,, grass..............38'3

,, accumltd. above 42° day-degs. 12'9
,, ,, since 1st January 784'8

Barometer (mean, Mo. vi, 30°2) in.
{Mo. vi, 2'45 in. on 13 days
Rainfall, since 1st January, 12'85 in. .082 in.
(mean rel. humidity 78 °)

Wind, direction, &c. ................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Lathyrus pratensis 135-167, Meadow Vetchling or Vetch. Meadows.

Rubus Idaeus 139-170, Raspberry, Highberry. Woods

Alopecurus geniculatus 129-166, Floating Foxtail-grass. Ditches

Avena fatua 141-171, False Oat, Wild Oat, Havers. Cornfields

Stellaria graminea 137-178, Lesser Stitchwort or Starwort. Dry places

[Symphoricarpus racemosus, Snowberry, Hoff. Gies.] 211. Shrubberies

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Pygara Bucephala 137-188, Buff-tip M., comes to light (lar. vii.-ix. on forest trees) ................................

Ephyra Punctaria 134-164, Maiden's-blush M. Woods (lar. vii.-ix. on oak) ...

Herminia Barbalis 144-175, Com. Fan-foot M. Thickets (lar. ix.-xii. on oak)...

Pionea Forficata 137-181, Garden Pebble M. Gardens (lar. vi.-x. on cabbage) ...

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)........... . . . .
Temperature, mean .................................. 55° 5

" max. in sun .......................... 127° 2

" " " shade ....................... 65° 2

" min. " shade ..................... 46° 9

" on grass ....................... 41° 4

" accumul. above 42° day-degs. 13° 7

" " since 1st January 79° 5

Barometer (mean, Mo. vi, 30° 02) in.
(Mo. vi, 2° 45 in. on 13 days) 

Rainfall: since 1st January, 12° 94 in.
(mean rel. humidity 78 %)

Wind, direction, &c. ............................... 

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming.
IRIS PSEUD-AcorUS 135-167, Yellow Flag or Iris, Jacob's Sword. Wet places 

Geranium pratense 140-170, Blue Meadow Crane's-bill. Thickets, fields ............

Pastinaca sativa 123-199, Wild Parsnip. Waste places ...........................................

Orchis ustulata 126-196, Dwarf Dark-winged Orchis. Chalky pastures ............

[Rubus idaeus, Raspberry, Hoff. Gies.] 152, 185 ........... ................................. 


Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Polyommatus Corydon 153, Chalk-hill Blue B. Chalk downs (lar. x.-vi. on tuft vetch)
Larentia Miaria 134-194, Green Carpet M. ..................................................
Lygus umbellatarum, Hop or Plant Bug (June to September—C.W.) Hop gardens LOOK FOR Small Dusky Wave M. 176, The Shark M. 171, Dark Spectacle M. 173, Burnished Brass M. 189.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Temperature, mean .................... $55^\circ \pm 8$

\[
\begin{align*}
\text{max. in sun} & \quad 121'1 \\
\text{shade} & \quad 65'5 \\
\text{min. shade} & \quad 48'0 \\
\text{on grass} & \quad 42'6 \\
\end{align*}
\]

Temperature, mean daily range above 42\textdegree day-degs. $14'8$

Barometer (mean, Mo. vi, 30'02) in.

\[
\begin{align*}
\text{Mo. vi, 2'45 in. on 13 days} \\
\text{since 1st January} & \quad 813'3 \\
\text{Rainfall} & \quad 082 \text{ in.} \\
\text{mean rel. humidity} & \quad 78\% \\
\end{align*}
\]

Wind, direction, &c. ........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

PAPAVER RHÆS 132-179, Com. Red Corn Poppy, Head-ache. Cornfields ...

ŒNANTHE crocata 137-175, Water Dropwort, Hemlock Dropwort. Marshes ...

CARDUNUS palustris 142-172, Marsh Thistle. Marshes ............................

Scrophularia nodosa 145-178, Knotted Figwort, Great Pilewort. Moist places ...........

LOOK FOR Fox-glove 161, Reed-grass, Tufted Hair-grass 164, Stonecrop 167, Meadow-sweet 169, Water Plantain 179.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Argynnus Selenæ 140-185, Sm. Pearl-bord. Fritly. B. Woods (lar. vii.-v. on violets)

Cilix Spina 137-213, Chinese Character M. Pailings (lar. v.-vii. on sloe). .......

Drepana Falcataria 130-191, Pebble Hook-tip M. Trees (lar. vii. & x. on birch)....

Cabella Exanthemaria 141-188, Com. Wave M. Woods (lar. x. on willow) .........

Emmelesia Affinitata 133-176, The Rivulet M. Bushes (lar. x. on campion) .........

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .....................
Temperature, mean .................. 54° 9

,, max, in sun ................. 127° 8

,, ,, ,, shade ............... 66° 2

,, min, in shade .................. 45° 7

,, on grass .......................... 39° 9

,, accum. above 42° day-degs. 13° 5

Barometer (mean, Mo. VI. 30° 02) in.

(states) Mo. VI. 2° 45 in. on 13 days

Rainfall since 1st January, 13° 10 in.

(mean rel. humidity 78°)

Wind, direction, &c. .....................

Plants and Trees blooming; note if surviving, premature, or 2nd blossoming

Rosa Canina 142-182, Dog or Wild Rose, Hep-tree. Hedges ..................

Orchis Maculata 141-167, Spotted-hand Orchis, Purple Wreath-wort. Heaths...

Rhamnus catharticus 143-178, Buckthorn, Rainberry, Waythorn. Thickets .......

Tamus communis 142-176, Com. Black Briony, Oxberry. Hedges .............

Calostria cristata 135-177, Crested Hair-grass. Dry pastures ...................

LOOK FOR Broad-leaved Willow-herb 164, Water Betony 170, Downy Rose 171, Pyramidal Orchis 172, Nipple-wort 173, Marsh Ragwort 175.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Polyommatus Agestis 135-185, and 233, Brown Argus B. Hilly fields (lar. vii. iv. on hemlock, stork’s-bill) ..............

Mamestra Brassicae 125-194, Cabbage M. Wallis (lar. v.-ix. on cabbage, dock) ....

Ephyra Trilinearia 125-182, Clay Triple-lines M. Woods (lar. viii.-x. on beech)

Ligida Adustrata 130-188, Scorched Carpet M. Spindle (lar. v.-vi. on —) .......

Botys Pandalis 135-170, Bordered Pearl M. Grassy woods ................................

LOOK FOR Elephant M. 170, Ribband Wave M. 175, Angler’s May-fly (G.W.)

Fish. Reptiles.

Birds : migration, song, nesting, &c.

Animals : seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ........................
Temperature, mean...........................................54°5
   ,, max. in sun........................................119°7
   ,, ,, shade ...........................................64°6
   ,, min. ,, shade ........................................47°5
   ,, ,, on grass .........................................40°9

,, accumltd. above 42° day-degs. 13°6
,, ,, since 1st January 840°4
Barometer (mean, Mo. vi, 30°02) in.
Mo. vi, 2°45 in. on 13 days
Rainfall (since 1st January, 13°8 in.) .082 in.
[mean rel. humidity 78 %]

Wind, direction, &c. .................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

THYMUS SERPYLLUM 146 - 167, Wild Thyme, Brotherwort. Dry heaths ........
NASTURTIUM OFFICINALE 141-171, Com. Water-cress, Yellow Cress. Brooks......
[Corunus sanguinea, Dog - wood, Hoff. Gies.] 162, 236.............................
LOOK FOR Couch Grass 169, Meadow Rue 170, Privet 171, Tufted Vetch 172, Agrimony 175.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Pamphila Sylvanus 135-185, Clouded Skipper B. Hills and woods (lar. v.-vii. on grasses) ........................................
Dasychira Pudibunda 133-181, Light Tussock M. Gardens (lar. vii.-ix. on hop).
Plusia Gamma 131-221, Silver Gamma M. Flowers (lar. iv.-x. on hop, nettle)........

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)............................
Temperature, mean ........................................ 54°9
   max. in sun ........................................ 119°2
   ,, ,, shade ......................................... 65°2
   min. ,, shade ...................................... 47°2
   ,, on grass ....................................... 42°6
   ,, accumltd. above 42° day-degs. 14°
   ,, since 1st January 854°4
Barometer (mean, Mo. vi, 30°02) ..... in.
   Mo. vi, 2°45 in. on 23 days
Rainfall (mean rel. humidity 78°)
   since 1st January, 13°96 in. 6°82 in.
Wind, direction, &c. .................................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Silene inflata 141-176, Bladder Campion,
   Catchfly, White-bottle. Pastures ..............
Gallium saxatile 143-165, Smooth Heath
   Bed-straw. Downs .................................
Veronica Anagallis 137-170, Water Speedwell, "Faverell." Marshes ...............
LOOK FOR Oat cultivated 169, Gt. Knapweed 169, Self Heal 170, Autumnal
   Hawk-bit 174, Yellow Toad Flax 176,
   Rest-harrow 186, Com. Sow-thistle 194.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Cerura Bifida 157, Barred Kitten M.
   Willows (lar. vii.-ix. on poplars) ..............
Nemeophila Plantaginosa 141-168, Wood
   Tiger M. Hills and woods (lar. viii.-iv.
   on plantain) ....................................
Minoa Euphorbiata 142-186, Drab Looper
   M. Woods (lar. viii.-ix. on euphorbia)
LOOK FOR Marble Minion M. 174,
   Flame-shoulder M. 166, Shears M. 170,
   Clouded Brindle M. 183.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
   Salmon (S). Trout (T) .............................
Temperature, mean...................... 54°2
  " max. in sun................... 128°7
  " " shade .................... 63°7
  " min. " shade .................. 46°9
  " on grass .................... 41°5

,, accumltd. above 41° day-degs. 13°3
,, since 1st January 867°7
Barometer (mean, Mo. vi, 30°02) in.
(Mo. vi, 2°45 in. on 13 days)
Rainfall since 1st January, 13°35 in. -082 in.
(mean rel. humidity 78 %)

Wind, direction, &c. ......................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
Trifolium procumbens 138-184, Hop Trefoil. Pastures ......................

Bryonia dioica 142 - 175, Red-berried Briony, Grape-wort. Hedges ..............
Myosotis palustris 138-177, Forget-me-not, Water Scorpion-grass. Wet places ......
Avena flavescens 150-165, Yellow Oat-grass. Chalky pastures ......................
Bromus asper 129-171, Hairy Brome-grass. Woods ..............................
LOOK FOR Black Knapweed 174, Black Climbing Bindweed or Buckwheat 176,
Amphibious Knot-grass 177, Com. Persicaria 185, Wheat 168.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Apamea Unanimis 143-199, Uniform Rustic M. Marshes (lar. ix.-iv. on grasses) ...
Melanthia Ocellata 131-219, Purple Bar M. Woods (lar. vii.-viii. on galium) .........

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..................................
Temperature, mean

Temperature, mean

Temperature, mean

Temperature, mean

Temperature, mean

Temperature, mean

Temperature, mean

Barometer (mean, Mo. vi, 30.02) in.

Rainfall

Wind, direction, &c.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

MALVA SYLVESTRIS 133-175, Com. Malow, Mauls, "Cheeses." Waste places.

Potentilla reptans 140-186, Creeping Cinquefoil, Five-finger Grass. Roadsides

Carduns nutans 121-179, Musk Thistle, Scotch Thistle of Artists. Downs

LOOK FOR Barley 167, Bent Grass 172, Giant Fescue 188.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.


Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing Sports.

Salmon (S). Trout (T)............. ...
Temperature, mean..........................55°0
" max. in sun...................125 3
" , , shade ......................65'4
" min. , shade ......................46'0
" , on grass ......................40'4
" , accumuldt. above 42° day-degs. 13'5
" since 1st January 894'6
Barometer (mean, Mo. vi, 30'02) in.
{Mo. vi, 2'45 in. on 12 days
Rainfall {since 1st January, 13'31 in. -082 in.
{mean rel. humidity 78 %
Wind, direction, &c. .....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Knautia arvensis 132-186, Field Kn.
Field Scabious. Pastures ..................
Veronica officinalis 145-171, Com. Speedwell, Fluellen. Dry places ..............
Hedges ....................................

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Polyommatus Albus 144-179, Small Blue B.
Hills and banks (lar. vii. on kidney vetch).................................
Acronycta Psi 129-192, Grey Dagger M.
Tree trunks (lar. viii.-ix. on pear, elm)...
LOOK FOR Clouded Yellow B. 188,
Orange Swift M. 194, Dark Swordgrass M. 239.

Fish. Reptiles.

Birds: migration, song, nesting, &c.
Quail egg, Pardix Coturnix. Grass ground ....................................

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Temperature, mean..........................54°5

,, max. in sun....................126°0
,, ,, ,, shade ..............64°6
,, min. ,, shade ............46°1
,, ,, on grass .............39°8

,, accumltd. above 42° day-degs. 13°7
,, since 1st January 906°3
Barometer (mean, Mo. vi, 30°02) in.
(Mo. vi, 2°45 in. on 13 days)

Rainfall since 1st January, 13°59 in. 6°82 in.
(mean rel. humidity 78\%)

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
STACHYS SYLVATICA 152-179, Hedge Woundwort. Shady places ...................
Digitalis purpurea 154-172, Foxglove, Fairy Fingers. Woods and thickets......
LOOK FOR Wood Betony 181, Marsh Bedstraw 173, Bee Orchis 177, Clustered Dock 182, Creeping Thistle 185, Angelica 202.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvæ &c. appearing.
Cerura Vinula 137-174, Puss M. Tree trunks (lar. vii.-viii. on poplars)...........
Lophopteryx Camelina 124-240, Coxcomb Prominent M. Ferns (lar. vii. & ix. on apple and forest trees).........................
Herminia Nenoria 146-189, Small Fan-foot M. ...........................................
LOOK FOR Com. Carpet M. 184.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................... ...
Temperature, mean .................. 54° 0

,, max. in sun .................. 121° 0
,, ,, shade .................. 64° 8
,, min. ,, shade .................. 44° 6
,, on grass .................. 39° 2

,, accumltd. above 42° day-degs. 13° 1
,, ,, since 1st January 919° 4

Barometer, (mean, Mo. vi. 30°02) in.

Mo. vi. 2°45 in. on 13 days

Rainfall since 1st January, 13°67 in. 082 in.

(mean rel. humidity 78%)

Wind, direction, &c. .....................

Plants and trees blossoming; note if surviving, premature, or 2nd blossomings

CORNUS SANGUINEA 143-189, Dog-wood,
Wild Cornel, 156, 236. Woods ..........

Rumex crispus 132-186, Curled Dock.
Waste places ........................

Gymnadenia conopsea 145-177, Fragrant Orchis. Chalky heaths ..................

LOOK FOR Gt. Water Reed Grass 172,
Mullein 179, Ground Thistle 184,
Bramble 189.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Procris Geryon 145-202, Green Forester M.
Grassy hills (lar. v. on rock-rose) ....

Odezia Charophylata 153-180, Chimney-sweep M. (lar. v. on chervil, earth-nut)
Botys Fuscalis 148-189, Cinereous Pearl M.
LOOK FOR Ghost or Otter Moth 175.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T). .......... .......
Temperature, mean..........................56°0

max, in sun.........................125°8

" " shade ..................65°9

min., " shade ..................47°6

" " grass ..................42°4

" accumltd. above 42° day-degs. 14°3

since 1st January 933°7

Barometer (mean, Mo. vi, 30°02) in.
(Mo. vi, 2°45 in. on 13 days )

Rainfall (since 1st January, 13°75 in.) 082 in.
(mean rel. humidity 78 %)

Wind, direction, &c. .........................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings

DAUCUS CAROTA 132-204, Wild Carrot,
Bees'-Birds'-Nest. Pastures...............

Valeriana officinalis 152-184, Cat's or Gt. Wild Valerian. Moist woods

Plantago major 147-186, Gt. Plantain.
Pastures...........................

LOOK FOR Bartsia 176, False Brome Grass 177, Red-veined Dock 178.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests ......................

Insects, Larvae &c. appearing.
Grammesia Trilinea 139-179, Treble Lines M. (lar. iv.-v. on gt. plantain) .........

Fidonia Atomaria 149-185, Com. Heath M. (lar. vii.-v. on trefoils) ..................

Melanippe Hastata 139-177, Argent and Sable M. Birch trees (lar. viii. on birch)

Pyrausta Purpuralis 131-200, Crimson and Gold M. (lar. vi., viii. on mint) ...........

LOOK FOR Heart and Club M. 180,
Ingrained Clay M. 180, Beautiful Golden Gamma M. 172, Beautiful Carpet M. 182.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Temperature, mean....................55°6

,, max. in sun ..................122°6

,, ,, ,, shade..................66°0

,, min. ,, ,, shade ..................46°6

,, ,, on grass ..................41°4

,, accum. ltd. above 42° day-degs. 14°4

,, since 1st January 948°1
Barometer (mean, Mo. vi. 30°02) 1 in.
(Mo. vi. 2°45 in. on 13 days )

Rainfall (since 1st January, 13°84 in. )
mean rel. humidity 78 %

Wind, direction, &c. ............

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms
Epilobium montanum 155-178, Broad smooth-leaved Willow herb. Dry banks.
Digophis (Ammophila) arundinacea 154-179, Reed-grass, Marram. Ditches......
Aira caespitosa 154-179, Tufted Hair-grass.
Pastures ..............................

LOOK FOR Moneywort 179, Skull-cap 182, Horehound 185, Fat-hen 187, Meadow Barley 179.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Smerinthus ocellatus 126-201, Eyed Hawk M. Trees and paling (lar. viii. on willow, apple) ......................
Gnophria rubricolis 148-182, Red-necked Footman M. ..........................
Camptogramma Bilineata 148-185, Yellow Shell M. Hedges (lar. iv. on grasses) ....
LOOK FOR Six-spot Burnet M. 179, Dart M. 187, Heart and Dart M. 169.

Fish, Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing, Sports.
Salmon (S). Trout (T)..........................
165-200, Mo. VI., JUNE 14, 188

Temperature, mean .................. 55°3
   "    max. in sun .............. 123°5
   "    "    shade .......... 65°5
   "    min. " shade .......... 46°5
   "    "    on grass ......... 41°8
   "    accumul. above 42° day-degs. 13°9

since 1st January 962°0

Barometer (mean, Mo. vi, 30°02) in.
   (Mo. vi, 2'45 in. on 13 days)
Rainfall - since 1st January, 13°92 in. °069 in.

Wind, direction, &c. ..................

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoming
Vicia sylvatica 152-189, Wood Vetch or Tare. Rocky places. ..................

Pimpinella Saxifraga 129-206, Com.
Burnet Saxifrage. Dry pastures ........
Lonicera Periclymenum 146-200, Honey suckle, Woodbine. Hedges ............
Orobanche minor. 137-196, Small or least Broom-rape. Parasitic on Trifolium pratense ...........................................................

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae, &c. appearing.
Charocampa Porcellus 148-180, Small Elephant M. Near Galium (lar. viii. on Galium, willow, vine)...........................

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)..................
Temperature, mean ..................55°.4
  ,,  max. in sun...............120°.9
  ,,  ,, shade ...............65°.0
  ,,  min.  ,, shade ..........48°.3
  ,,  on grass ............43°.0
  ,, accumltd. above 42 day-degs. 14°.0
  ,,  since 1st January 976°.
Barometer (mean, Mo. vi, 30°.02) in.
  ,,  Mo. vi, 2°.45 in. on 13 days
Rainfall - since 1st January, 14°.00 in. 082 in.
  ,,  mean rel. humidity 78 %
Wind, direction, &c. .....................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings
  Phleum pratense 152-181, Timothy Grass,
  Cat's-tail Grass. Pastures..............
  LOOK FOR Hawkweed 183.

Trees &c. leaing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
  Smerinthus Populi 129-222, Poplar Hawk M. Tree trunks (lar. viii.-ix. on poplar, shrubs) ......................
  Sphinx Ligustri 144-200, Privet Hawk M. Tree trunks (lar. ix. on privet, shrubs)...
  Noctua Plecta 156-186, Flame-shoulder M. (lar. vii.-iv. on bedstraws) ..............
  Botys Urticata 146-206, Small Magpie M. LOOK FOR Pale Mottled Willow M.
  198, Swallow -tail M. 190, Mottled Beauty M. 185, Red Spider on Hops 183.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports. Close season for coarse fish ends.
  Salmon (S).  Trout (T) ............... ...
  Coarse fish ..........................
Temperature, mean .................................. 55°7

,, max. in sun .................................. 125°4
,, ,, ,, shade .................................. 65°2
,, min. ,, shade .................................. 48°2
,, ,, on grass .................................. 43°1

,, accumul. above 42° day-degs. 14°2
,, ,, since 1st January 990°2
Barometer (mean, Mo. vi, 30°02) in.
Mo. vi, 2°45 in. on 13 days
Rainfall since 1st January, 14°08 in. °082 in.
(mean rel. humidity 78 %)

Wind, direction, &c. .................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Sedum acre 154-190, Biting Stonecrop,
Wall Pepper, Orpine. Walls and roofs...
Asterula cynanchica 144-189, Quinquamcy-
wort, Small Woodruff. Downs............
Gentiana Amarella 147-, Small flowered
Gentian, Fel-wort. Dry heaths ...........
Hordeum vulgare 159-178, Com. Barley
cultivated in Fields .........................
LOOK FOR Centaury 191.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Hepialus Villeda 160-181, Beautiful Swift M. Walls, birch trunks (lar. viii.-v. on brake fern) ..............................
Xylophasia Rurea 150-171, Clouded-border
Brindle M. (lar. iv. on grasses) ...........
LOOK FOR Lobster M. 180, Bordered
Gothic M. 176, Broom M. 181, Twin-
spot Carpet M. 188.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .........................
Coarse fish ..........................
168-197, Mo. VI., JUNE 17, 188.

Temperature, mean..................55°4
   ,, max. in sun................121°2
   ,, ,, shade ...............65°0
   ,, min. ,, shade ...........49°2
   ,, on grass .............42°2

,, accum. above 42° day-degs. 14'9
,, ,, since 1st January 1005°1
Barometer (mean, Mo. vi, 30°02) in,
{ Mo. vi, 2°45 in. on 13 days }
Rainfall (since 1st January, 14'7 in.) "082 in.
{ mean rel. humidity 78 % }

Wind, direction, &c. .........................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Rosa arvensis 144-196, Trailing Dog-rose or Briar. Hedges....................
Triticum vulgare 157-177, Wheat, cultivated in Fields .........................

LOOK FOR Lady’s Bedstraw 178, Enchanter’s Nightshade 181, Musk Mallow, 183, Basil 190.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
HIPPARCHIA (EPINEPHILE) JANIRA 131-192, Meadow Brown B. Fields (lar. viii.-v. on meadow grass) ..................
Apamea Basilinea 152-192, Rustic Shoulder-knot M. (lar. viii.-iii. on wheat) ........
Scofula Olivalis 149-190, White Brindled M. (lar. iv., v. on ground ivy)...........

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Coarse Fish ...............................
Temperature, mean .................. 55°.4
     "  max. in sun ................ 125'3
     "  "  "  shade .......... 67'5
     "  min.  "  "  shade ..... 48'4
     "  "  on grass .......... 43'4

"  accumld. above 42° day-degs. 15'6
     "  since 1st January 1020'7
Barometer (mean, Mo. vi., 30'02) in.
     Mo. vi., 2'45 in. on 13 days
Rainfall since 1st January, 14'95 in.
     mean rel. humidity 78 %
Wind, direction, &c. ..................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
SPIRÆA ULMARIA 154-188, Meadow-sweet,
   Bride-wort, Courtship - and - Marriage.
Meadows, damp places
Centaraea Scabiosa 157-204, Gt. Knapweed, Blue-bottle, Star-thistle. Fields ...
Convolvulus arvensis 148-204, Field Bindweed, Corn-bind. Fields
Triticum repens 156-179, Couch Grass, Squitch of Twitch-grass. Fields
Avena sativa 157-182, Com. Oat, cultivated in fields
LOOK FOR Hairbell 188, Jointed Rush 189, Ironwort 193.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Agrotis Exclamationis 146-188, Heart and Dart M. Gardens (lar. ix.-v. on cabbage)
Melanippe Rivata 135-200, Wood Carpet M. (lar. vi. & ix. on hedge bedstraw) ...
Stag Beetle, Lucanus cervus (G.W.).......
LOOK FOR Small Tortoise-shell B. 200,
Peach-blossom M. 190, Light Archers M. 193.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..................
Coarse fish .......................

169-196, Mo. VI., JUNE 18, 188.
Temperature, mean..........................57°.5

,, max. in sun.......................124°0
,, ,, shade ......................68°2
,, min. ,, shade ..................48°9
,, ,, on grass..................44°5
,, accumltd. above 42° day-degs. 16°
,, since 1st January 1036°8

Barometer (mean, Mo. vi, 30°02) in.
(Mo. vi, 2°45 in. on 13 days)

Rainfall (since 1st January, 14°33 in. 082 in.
(mean rel. humidity 78%)

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

PRUNELLA VULGARIS 157-179, Com. Self-heal, All Heal, Herb Carpenter. Moist pastures

Thalictrum flavum 156-184, Com.Meadow-Rue. River banks

Aethusa Cynapium 132-200, Com. Fool’s Parsley, False Parsley. Waste places

Scrophularia Balbisii (S-aquatica) 155-188, Water Figwort or Betony. Marshes ...

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Grapta C-alba 108-232, Comma B. Gardens (lar. v. & viii. on nettle, hop) ....
Charocampa Elpenor 154-190, Elephant M. Flowers (lar. viii. on Galiums, vine) ....
Hadena Dentina 157-186, The Shears M. (lar. v.-vi. on dandelion roots) .......
Cidaria Russata 139-242, Marbled Carpet M. Woods (lar. vii., x.-v. on strawberry)

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).................
Coarse fish............................
Temperature, mean..........................58.8°

,, max. in sun...................126.6

,, ,, shade ..................68.5

,, min., ,, shade ...........50.3

,, on grass...................46.1

,, accumulatd. above 42° day-degs. 17.2

,, ,, since 1st January 1054.0

Barometer (mean, Mo. vi, 30°02) 30.02 in.

,,,, Mo. vi, 24.45 in. on 13 days

Rainfall since 1st January, 14.14 in. -082 in.

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Ligustrum Vulgare 156-191, Privet,

Prim-print. Thickets.........................

Lychnis Githago 135-190, Corn-cockle,

Corn Pink. Cornfields ....................

Rosa tomentosa 155-182, Downy-leaved

Rose. Hedges..........................

Anthemis Cotula 143-187, Stinking May-

weed or Chamomile. Cornfields............

LOOK FOR Hairy- 181, Square-stalked-

190, Upright-184, and Com. St. John's-


Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.


Insects, Larvae &c. appearing.

Cucullia Umbratica 153-187, Shark M.

Pailings (lar. vii.-ix. on thistles, lettuce)

LOOK FOR Muslin M. 186, Currant

Hawk M. 189, Feathered Gothic M.

225.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)............... ..... Coarse fish  ... ........................
Temperature, mean..........................58°7
      ,  max. in sun..................129°2
      ,  "  in shade .................69'4
      ,  min.  in shade ...............50'4
      ,  on grass......................45'6
      ,  accumltd. above 42° day-degs. 17'4
      ,  since 1st January 107'4

Barometer (mean, Mo. vi, 30'02) in.
{Mo. vi, 2'45 in. on 13 days}

Rainfall {since 1st January, 14'49 in.} 0'82 in.
{mean rel. humidity 78 %}

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Vicia Cracca 156-198, Tufted Vetch,
Fetches or Fitches. Bushy places ......
Orchis pyramidalis 155-193, Pyramidal
Orchis. Chalky pastures .................
Agrostis vulgaris 159-181, Fine Bent-grass,
Monkey-grass. Pastures ...................
Glyceria aquatica 162-182, Gt. Water
Reed-grass, Reed Meadow-grass. Ditches
[Ligustrum vulgare, Privet, Hoff. Gies.]

Tree &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Leucophasia Sinapis 172, Wood White B.
Woods (lar. vi-x. on tufted vetch)........
Plusia Pulchrina 163-193, Beautiful Golden
Gamma M. ..................................
Asthena Luteata 150-190, Small Yellow
Wave M. Woods (lar. viii-x. on maple)

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)...............
Temperature, mean..........................58°0

max. in sun........................125°0

,,    ,, shade ..................68°6

min.  ,, shade ..................49°1

,,    ,, on grass.................44°6

,, accumltd. above 42° day-degs. 16°4

Barometer (mean, Mo. vi. 30°02) in.

Mo. vi. 2°45 in. on 13 days.

Rainfall ..................................082 in.

since 1st January, 14°38 in.

mean rel. humidity 78 %

Wind, direction, &c. ......................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings


Waysides ..................................

Galium palustre 161-186, White, Water, or Marsh Bedstraw. Marshes

Scabiosa Columbaria 152-214, Small Scabious. Dry heaths

Lapsana communis 155-186, Nipplewort.

Waste places ................................

[Tilia grandifolia, Broad-leaved Lime-tree, Hoff. Gies.] 190, 178

LOOK FOR Marshwort 182, Devil's Bit 204.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Abrostola Triplasia 153-203, Dark Spectacile M. (lar. viii.-ix. on hop, nettle) ...

LOOK FOR Large Five-spot Burnet M. 186, The Buff Arches M. 190.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ....................

Coarse fish ............................
174-191, Mo. VI., JUNE 23, 188

Temperature, mean.................. 57° 1

" max. in sun............. 129° 3

" " shade .............. 67° 9

" min. " shade .............. 48° 4

" on grass.............. 42° 5

" accumulated above 42° day-deg.s. 15° 5

since 1st January 1103° 3

Barometer (mean, Mo. vi, 30° 02) in.
(Mo. vi, 2' 45 in. on 13 days)

Rainfall (since 1st January, 2' 66 in.) 0' 82 in.
(mean rel. humidity 78 %)

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Centaurea nigra 158-204, Black Knapweed, Logger-heads. Meadows ...........

Leontodon autumnalis 157-196, Autumnal Hawkbit. Pastures .................

Holcus mollis 151-189, Creeping Soft-grass. Meadows .........................

LOOK FOR Bay Rose 185, Lime-tree 190.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Mima Strigilis 156-185, Marbled Minion M. (lar. iii.-iv. on grasses) ........

LOOK FOR The Gate Keeper B. 193, Grayling B. 208, High Brown Fritillary B. 192, Chalk Hill B. 203.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ..............

Coarse fish ..........................
Temperature, mean \(57.2^\circ\)

\[
\begin{align*}
\text{max. in sun} & : 126.0 \\
\text{shade} & : 68.1 \\
\text{min. shade} & : 48.5 \\
\text{on grass} & : 42.6 \\
\end{align*}
\]

\[\text{accumulated above} \ 42^\circ \text{day-degs.} \ 15.7 \]

Barometer (mean, Mo. vi, 30.02) in.

\[
\begin{align*}
\text{Mo. vi, 2.45 in. on 73 days} & : 0.82 \text{ in.} \\
\text{since 1st January, 14.74 in.} & : 0.68 \text{ in.} \\
\text{mean rel. humidity} 78 \%
\end{align*}
\]

Wind, direction, &c.

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoming.

- Agrimonia Eupatoria 156-199
- Agrimony, Liver-wort, Banks
- Soncicio aquaticus 155-191, Marsh Ragwort, Oak-leaved Ragwort, Marshes

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

- Macroglossa Stellatarum 112-273, Humming Bird Hawk M. Flowers (lar. viii.-ix. on Galium M.)
- Hepialus Humuli 162-201, Ghost or Otter M. Fields (lar. viii.-iv. on hop, &c.)
- Hadena Oleracea 146-204, Bright-line Brown Eye M. (lar. viii.-ix. on elm)
- Plusia Iota 146-189, Plain Golden Gamma M. Ground Ivy (lar. iv.-vi. on nettles)
- Acidalia Aversata 155-192, Ribband Wave M. Woods (lar. ix.-v. on gooseberry)

Fish, Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing, Sports.

Salmon (S). Trout (T) 
Coarse fish
176-189, Mo. VI., JUNE 25, 1888.

Temperature, mean .......................... 57°7
    " max. in sun .................. 128'4
    "  " shade .................. 68'4
    " min.  " shade .................. 49'4
    "  " on grass .................. 44'0

    " accumltd. above 42 day-degs 16.5
since 1st January 1135'5

Barometer (mean, Mo. vi, 30'02) in.
Mo. vi, 2.35 in. on 13 days

Rainfall since 1st January, 14'82 in. 082 in.
mean rel. humidity 78%.

Wind, direction, &c.

Plants and Trees blossoming: note if surviving, premature, or 2nd blossoming.

Torilis Anthriscus 148-204, Upright Hedge-Parsley. Waste places ..........
Campanula glomerata 143-214, Cluster Bell-flower. Downs ...................
Linaria vulgaris 143-214, Yellow Toadflax, Gall-wort. Corn fields ..........
Bartsia Odontites 163-205, Red Bartsia.
Waste places ................................
Polygonum Convulvulus 158-196, Black Bindweed, Climbing Buckwheat. Corn-fields ..............
Mushroom, Agaricus campestris (G.W.) ... LOOK FOR Hard Rush 192.

Trees &c. leafing: seeds germinating.

Trees &c. fruit ripening: beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Neuria Saponaria 167-188, Bordered Gothic M. (lar. vii., viii. on campion) ...
Eubolia Plumbaria 148-215, The Belle. Light (lar. v. on Genista, broom) ........
Acidalia Virgularia 152-211, Small Dusty Wave M. ......................
LOOK FOR Small Skipper B. 191.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ..............
Coarse fish ..........................
Temperature, mean ........................................ 57°'9
'' max. in sun........................................ 123°'6
'' '' shade ........................................ 68°'5
'' min. '' shade ........................................ 48°'5
'' on grass........................................ 42°'8
'' accumld. above 42° day-degs. 15°'9
'' since 1st January 1151°'4

Barometer (mean, Mo. vi, 30°'02) in.
(Mo. vi, 2°'45 in. on 13 days)
Rainfall (since 1st January, 14°'90 in.) 0°82 in.
(mean rel. humidity 78 %)

Wind, direction, &c........................................
Plants and Trees blossoming: note if surviving, premature, or 2nd blossomings
Polygonum amphibium 158-214, Amphibious Knot-grass or Buckwheat.
Ditches ........................................
Ophrys apifera 161-195, Bee Orchis.
Chalky pastures ........................................
Brachypodium sylvaticum 163-186, Slender False Brome-grass. Woods ...........

Trees &c. leafing: seeds germinating.

Trees &c. fruit ripening: beginning of fruit and seed harvests.
[Loniceratatarica fr. ripe, Hoff. Gies.] 123

Insects, Larvae &c. appearing.
Hepialis Hectus 156-200, Gold Swift M.
Flies at dusk (lar. viii.-v. on bracken) ...
Rusina Tenebrosa 150-186, Brown Feathered Rustic M. (lar. iv.-v. on violets)......
Hypena Proboscidalis 148-199, The Snout M. Nettles (lar. vii.-iv. on nettle) ...

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .........................
Coarse fish ..................................
Temperature, mean ...........................................59°4

max. in sun...........................................129°3

day-temps. ...........................................18°4

min. shade ...........................................49°2

on grass ...........................................43°5

acc. above 42° day-degs. 17°4

since 1st January 11°68°8

Barometer (mean, Mo. vi, 30°02) in.

Mo. vi, 3°45 in. on 13 days

Rainfall since 1st January 14°99 in. 0°82 in.

mean rel. humidity 78°

Wind, direction, &c. .................................

Plants and Trees blossoming: note if

surviving, premature, or 2nd blossomings

Galium Verum 168-195, Lady's (yellow)

Bedstraw, Keeslip. Downs .......................

Rumex Nemerosa 163-191, Red-veined

Dock. Shady places .................................

[Tilia Parvifolia, Small-leaved Lime-tree,

Hof. Gies.] 190, 173 ..............................

LOOK FOR Gt. Willow-herb 199, Fiorin

Grass 188, Truffles (G.W.)

Trees &c. leafing: seeds germinating.

Trees &c. fruit ripening: beginning of

fruit and seed harvests.

Insects, Larvae &c. appearing.

Acronycta Rumicis 141-227, Knot-grass M.

(lar. vi.-viii. on bramble, knot-grass) ...

Eupithecia Rectangulata 163-195, Green Pug

M. Orchards (lar. iv.-v. on apple-buds)

Aglossa Pinguinalis 150-192, Tabby M.

Houses (lar. iii.-iv. on clothes) ..............

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .........................

Coarse fish .................................
Temperature, mean .................... 60° 5
   , max. in sun .................... 128° 7
   , , , shade ..................... 70° 7
   , , , shade ..................... 50° 4
   , on grass .................... 43° 5
   , accumltd. above 42° day degs. 18 9
   , since 1st January 1187° 7
Barometer (mean, Mo. vi, 30° 02) in.
   Mo. vi, 2° 45 in. on 13 days
Rainfall since 1st January, 15° 07 in. 8° 082 in.
   mean rel. humidity 78 %

Wind, direction, &c. .................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
Verbascum Thapsus 152-206, Gt. Mullein,
Cow's Lung-wort.
Chalky banks
Lysimachia nummularia 154-206, Money-
wort
Creeping Loosestrife. Damp places
Alisma Plantago 154-214, Gt. Water Plant-
tain, Mad-dog-weed.
Meadow Barley.
Money-wort, Creeping Loosestrife.
Damp places
Alisma Plantago 154-214, Gt. Water Plant-
tain, Mad-dog-weed.
Meadow Barley.

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.
Zygama Filipendulae 164-211, Six-spot Burn-
et M.
Sunshine (lar. vii.-v. on bird’s-
foot trefoil) .........................
Acronycta Ligustri 151-199, Coronet M.
Ash trees (lar. viii.-ix. on ash, privet) ...
Melanippe Unangulata 147-196, Sharp-
angle Carpet M.
Hedge banks (lar. vii.-
viii. on chickweed) ..................
LOOK FOR Large Magpie M. 191, Clouded
Yellow M. 187.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S).
Coarse Fish ........................
Temperature, mean: 58°.4

max. in sun: 127.2

shade: 70.0

min. shade: 49.2

on grass: 43.9

accumulate above 42° day-degrees: 17.4

since 1st January 1205'

Barometer (mean, Mo. vi, 30.02) in.

Rainfall (mean, Mo. vi, 30.02 in.)

Wind, direction, &c.

Plants and Trees: blossoming; note if surviving, premature, or 2nd blossoming.

Lilium Candidum: 171., White Garden Lily.

Shrubbies: ..........................

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Stauropus Fagi: 167-205, Lobster M.

Beech woods (lar. viii.-ix. on beech, oak)

Cymatophora Duplicaria: 165-202, Lesser Satin Carpet M. (lar. viii.-ix. on birch)


Noctua Festiva: 163-231, Ingrailed Clay M. (lar. vii.-v. on violets, foxglove)

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ....................

Coarse fish ..........................
Temperature, mean......................58°

,, max. in sun....................128°

,, ,, shade ..................69°

,, min. ,, shade ..............50°

,, on grass ......................44°
,, accumul. above 42° day-deg. 17°
,, since 1st January 1222°

Barometer (mean, Mo. vi, 30°)

Rainfall since 1st January, 15° in.

Wind, direction, &c. ..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms

Hypericum hirsutum 170-204, Hairy St.

John's-wort. Thickets ............................

Circaea lutetiana 168-198, Com. Enchant-

er's Nightshade. Damp woods ..................

Stachys Betonica 160-203, Wood Betony, Bishop's-wort. Thickets ............................

[White garden lily, Hoff. Gies.] 180°

Trees &c. leafing; seeds germinating.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Insects, Larvae &c. appearing.

Xylaphasia Polyodon 165-208, Dark Arches M. (lar. iv-v. on low plants) ..................

Hadena Pisi 167-188, Broom M. (lar. VIII-

x. on broom, bracken) ..................

LOOK FOR Barred Straw M. 194.

Fish. Reptiles.

Birds: migration, song, nesting, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ..................

Coarse fish ..........................
Temperature, mean.......................... 58°.7

"    max. in sun.................. 125°.3
"    " shade ...................... 68°.0
"    min. " shade ................ 52°.3
"    " on grass .................. 48°.4

"    accumltd. above 42° day-degs. 16.7
"    since 1st January 1239°.0

Barometer (mean, Mo. vii, 29.98) in.

Rainfall (since 1st January, 15.32 in., mean rel. humidity 79%)

Wind, direction, &c. ..................................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming
Bogs ..............................................
Scutellaria galericulata 164-200, Com. Skull Cap, Helmet-flower. River banks ......
Rumex conglomeratus 161-204, Clustered or Sharp Dock. Wet places ..............
LOOK FOR Spear Thistle 192.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing,
Hipparchia Hyperanthus 173-196, Ringlet B. Woods (lar. viii.-vi. on grasses)......
Melanthia Albicillata 163-196, Beautiful Carpet M. (lar. viii.-ix. on raspberry, bramble) ........................................
LOOK FOR Oak Egg M. 198, Light Emerald M. 185.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Coarse fish .................................
Temperature, mean .......................... 58°6

,, max. in sun ......................... 121°2
,, ,, ,, shade ...................... 68°2
,, min. ,, shade .................... 50°4
,, ,, on grass ...................... 45°5
,, accum. above 42° day-degs. 16°6
,, since 1st January 1255°6

Barometer (mean, Mo. vii, 29°98) in.
(Mo. vii, 2°88 in. on 14 days)

Rainfall, since 1st January, 15'42 in. 093 in.
(mean rel. humidity 70%)

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Malva moschata 168-199, Musk Mallow.
Hieracium vulgatum 166-191, Com. Hawkweed.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Xylophasia Hepatica 157-201, Clouded Brindle M. (lar. viii.-iv. on grasses)...
Angerona Prunaria 168-199, Orange M. Woods (lar. x.-iv. on plum, forest trees)...
Scopula Prunalis 149-218, Dusky-brindled M. Hedges (lar. vi.-vii. on sloe, low plants) ........................................
Hops .................................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Coarse fish ..............................
Temperature, mean..........................59°1

,, max. in sun ...................123'2
,, ,, shade.................68'9
,, min. in shade ..............51'4
,, on grass....................45'6
,, accumltd. above 42° day-degs. 17'1
,, since 1st January 1272'7

Barometer (mean, Mo. vii, 29'98) in.

Rainfall: since 1st January, 15'32 in. mean rel. humidity 79 %

Wind, direction, &c. .........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

HYPERICUM FULCHRM 171-214, Small, slender, upright St. John's-wort. Commons

Carduus acaulis 162-223, Ground, or Dwarf Thistle. Downs

LOOK FOR Small-flowered Willow-herb 191, Teasel 203.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Argynnis Aglaia 147-233, Dark Green Fritillary B. Hillsides (lar. viii.-vi. on violets) ......................

Odonestis Potatoria 161-211, The Drinker M. Grass (lar. ix.-v. on coarse grasses)

Emmelesia Alchemillata 161-203, Com. Carpet M. (lar. viii.-ix. on Lychnis, Silene) ........................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)........................

Coarse fish .............................
185-186, Mo. VII., JULY 4, 188

Temperature, mean ...........................................58°7
          „ max. in sun ..............124°0
          „ , „ shade ..............68°6
          „ min. „ shade ..............51°2
          „ on grass ..................46°5

„, accumld. above 42° day-degs. 15°7
          „, since 1st January 128°9^4
Barometer (mean, Mo. vii, 29°98)  in.
          Mo. vii, 2°88 in. on 14 days
Rainfall { since 1st January, 15°60 in. } 0°93 in.
          mean rel. humidity 79 %

Wind, direction, &c. .................................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
CARDUUS ARvensis 161-203, Creeping or Field Thistle, Dog Thistle. Waysides
Epilobium angustifolium 174 - 200, Bay Rose, or Rose Bay Willow-herb. Copses
Ballota nigra 164-220, Black Horehound,
Stinking H: Waste places .........................
Polygonum Persicaria 158 - 214, Com.
Waste places ...........................................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Metrocampa Margaritata 182-197, Light Emerald M. Hedges (lar. ix.-v. on forest trees) .........................
Boarmia Repandata 166-207, Mottled Beauty M. Gardens (lar. ix.-iv. on shrubs) .................................
LOOK FOR Silver Streak B. 198, Lesser Broad-bordered yellow Underwing M. 220.

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .........................
Coarse fish ..................................
Temperature, mean ..........................59°1
  "  max. in sun.......................122°2
  "  "  "  shade ......................68.9
  "  min. "  "  shade .................50°5
  "  "  on grass .....................45°8

  "  accumul'd. above 42° day-degs. 17°1
      since 1st January 1306°5
Barometer (mean, Mo. vii, 29°98)  in.
  Mo. vii, 2°88 in. on 14 days
Rainfall  since 1st January, 15°70 in.  °093 in.
      mean rel. humidity 79 %

Wind, direction, &c. ............................
Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
  Hypericum perforatum 171-214, Com. St.
      John's-wort. Thickets ...................
  Ononis arvensis 157-223, Com. Rest Harrow, Ground Furze. Heaths...............

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
  Zygena Lonicera 172-211, Large Five-spot
      Burnet M. In sunshine (lar. vii.-v. on grasses, clover, honeysuckle?) .........
  Nudaria Mundana 170-203, Muslin M.
      Stone walls (lar. v.-vi. on lichens).........
      LOOK FOR Willow Beauty M. 196.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
  Salmon (S). Trout (T)......................
  Coarse fish ................................
187-178, Mo. VII., JULY 6, 188

Temperature, mean

\[ \text{mean} = 58\degree 7 \]

\[ \text{max. in sun} = 127\degree 7 \]

\[ \text{shade} = 50\degree 8 \]

\[ \text{min. shade} = 51\degree 9 \]

\[ \text{on grass} = 45\degree 0 \]

\[ \text{accumulated above 42\degree day-degs.} = 16\degree 7 \]

\[ \text{since 1st January} = 1323\degree 2 \]

Barometer (mean, Mo. vii, 29\degree 98) \[ \text{in.} \]

\[ \text{Mo. vii, 29\degree 88 in. on 14 days} \]

Rainfall \[ \text{since 1st January, 15\degree 79 in.} \]

\[ \text{mean rel. humidity} = 79\% \]

Wind, direction, &c.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomsings-
Chenopodium album 164-227, Fat Hen,
White Goose-foot. Waste places.
Waste places

Trees &c. fruit ripening; beginning of fruit and seed harvest.

Trees &c. leaves changing (half gr.

half ch.); leaves falling.

Insects, Larvae &c. appearing.
Agrotis Segetum 164-232, Com. Dart M.
(lar. vii.-iv. on turnips) 

Abrostola Urtice 157-230, The Spectacle M. (lar. viii.-ix. on nettle)

Cidaria Fulvata 178-213, Clouder Yellow
M. Bushes (lar. v. on dog rose)

LOOK FOR Black Hair-streaked B. 205,
Purple Hair-streaked B. 207, Double Square-spot M. 197, The Straw-dot M. 199,

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)

Coarse fish

Sports.

Salmon (S). Trout (T)

Coarse fish
Temperature, mean..............59°3

,, max. in sun...........130°0

,, ,, ,, shade ..........69°9

,, min. ,, shade .........50°9

,, on grass ..........45°8

,, accumul. above 42° day-degs. 17°3

,, since 1st January 1340°5

Barometer (mean, Mo. vii, 2998) in.
(Mo. vii, x°88 in. on 14 days) 2°88 in.
Rainfall, since 1st January, 15°88 in. 0°93 in.
(mean rel. humidity 79 %)

Wind, direction, &c. ....................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoming

CAMPA NULA ROTUNDIFOLIA 169 - 202,
Hair-bell, Round-leafed C. Heaths......

Agrostis alba 179-198, Fiorin or Marsh
Bent-grass. Pastures ....................

Bromius (Festuca) gigantea 159-206, Giant
Fescue-grass. Shady places ............

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Colias Edusa 160-241, Clouded Yellow B.
Clover banks (lar. vi.-vii. on Dutch clover) ......................

Larentia Didymata 167-211, Twin-spot
Carpet M. (lar. iv.-v. on rough chervil, cowslip).....................

LOOK FOR White Satin M. 201, Scarce Footman M. 209.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .................
Coarse fish.........................
Temperature, mean .......................... 59°4

  , max. in sun ............................ 129°

  , " " shade ............................ 69°6

  , " " shade ............................ 50°4

  , on grass ............................ 44°4

  , accumld. above 42° day-degs. 17°4

  , since 1st January 1357°9

Barometer (mean, Mo. vii, 29°98) in.

Rainfal - since 1st January, 13°98 in. on 14 days

Wind, direction, &c.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Rubus discolor 162-225, Com. Bramble, Blackberry. Thickets

Juncus lamprocarpus 169-208, Jointed, Shining-fruited Rush. Bogs

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Trochilium (Sesia) Tipuliforme 171-209, Currant Hawk M. Currant bushes (lar. x.-iv. in wood of currant) 

Plutia Chrysitis 153-249, Burnished Brass M. Nettles (lar. vi.-iv. on nettles, &c.)...

LOOK FOR The Old Lady M. 213, Small Mallow M. 200.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)..........................

Coarse fish .............................
Temperature, mean..........................59°'5

,, max. in sun.........................125'2

,, ,, shade ...............69'3

,, min. ,, shade ..........51'4

,, on grass.................46'4

,, accumul. above 42° day-degs. 17'5

,, since 1st January 137'4

Barometer (mean, Mo. vii, 29'98) in.

Mo. vii, 2'88 in. on 14 days

Rainfall (since 1st January, 16'07 in.) 0'93 in.

mean rel. humidity 79 %

Wind, direction, &c. ....................... Plantes and Trees blossoming; note if surviving, premature, or 2nd blossoms

Hypericum Tetrapterum 171-214,

Square-stalked St. John's-wort. Moist places

Tilia (Europaea) Lime-tree, Linden-tree. Woods, parks

Calamintha Clinopodium 168-220, Wild Basil, Calamint. Dry hills

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) leaves falling.

Insects, Larvae &c. appearing,

Thyatira Derasa 173-197, Buff Arches M. (lar. viii.-ix. on bramble, hawthorn).....

Thyatira Batis 169-206, Peach Blossom M. Brambles (lar. viii.-ix. on bramble, raspberry) ..................................

Ourapteryx Sambucaria 166-212, Swallow-tailed M. (lar. ix.-v. on elder, ivy, shrubs)

LOOK FOR Early Thorn M. 97, July Highflyer M. 210.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T).........................

Coarse fish ..................
191-174, Mo. VII., JULY 10, 188.

Temperature, mean.................. 59°.5

,, max. in sun ............ 132'5
,, ,, ,, shade ............. 70'4
,, min. ,, shade .......... 50'2
,, ,, on grass .......... 44'4

,, accumulatd. above 42° day-degs. 17'5
,, ,, since 1st January 1392'9

Barometer (mean, Mo. vii, 29'98) in.

Rainfall - since 1st January, 16'76 in. (Mo. viii, 2'88 in. on 14 days)
mean rel. humidity 79 %

Wind, direction, &c. ................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossoms.

'GALEOPSIS TETRAHIT 172-213, Com. Hemp-nettle, Bee Day-nettle. Cornfields ..................

Epilobium parviflorum 184-203, Small-flowered Willow-herb. Waste places...

Erythrea Centaurium 167-214, Com. Centaury, Fever-wort. Dry pastures ...

'Trees &c. fruit ripening; beginning of fruit and seed harvests.

'Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Pamphilia Linea 176-213, Small Skipper B. Fields, woods (lar. viii.-vi. on grasses) ...

Apatema Ocuca 159-236, Com. Rustic M. (lar. iv.-v. on grasses, Dactylis) ...

Abraxas Grossulariata 179-212, Large Magpie M. Gardens (lar. v. on gooseberry) ..................

Botys Verticalis 151-231, Mother of Pearl M. Nettles (lar. v. on nettle) ............

LOOK FOR Goat M. 212.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ..............

Coarse fish ..................
Temperature, mean.......................... 59°4
    "    max. in sun.........................129°9
    "    " shade .........................69°5
    "    min. in shade ...................51°0
    "    on grass .......................45°9

    "    accumulatd. above 42° day-degs. 17°4
    "    since 1st January 1410°3
Barometer (mean, Mo. vii, 29°98) in.
    Mo. vii, 2°88 in. on 14 days
Rainfall since 1st January, 16°25 in.
    mean rel. humidity 79°0

Wind, direction, &c..........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings
CARDOUS LANCEOLATUS 182-204, Spear Thistle, Bird Thistle. Waste places....
Juncus glaucus 176-214, Hard Rush. Wet places..........................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
    Argynnis Adippe 174-223, High Brown Fritillary B. Woods (lar. viii.-vi. on violets) .........
    Porpheria Auriflua 130-206, Yellow-tail M. Hedges (lar. ix.-v. on oak, willow)
    Leucania Fallens 177-245, Com, Wainscot M. (lar. x.-iv. on Deschampsia?) .........
    Cidaria Immunata 164-217, Dark Marbled Carpet M. (lar. v.-vii. on strawberry) ...
    LOOK FOR Purple Emperor B. 217, Flying ants (G.W.)

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
    Salmon (S), Trout (T) ..............
    Coarse fish .......................

LOOK FOR Purple Emperor B. 217, Flying ants (G.W.)
193-172, Mo. VII., JULY 12, 188.

Temperature, mean ..........59°4

,, max. in sun.........127°4

,, ,, shade ..........69°6

,, min. in shade .........50°3

,, on grass ............44°5

,, accumldt. above 42° day-degs. 17°4

,, since 1st January 1427°7

Barometer (mean, Mo. vii, 29°98) in.

Mo. vii, 2°88 in. on 14 days

Rainfall (mean, Mo. vii, 16°35 in.) .°93 in.

Wind, direction, &c.

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings


Inula Helenium 193-, Elecampane. Moist pastures.........................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Hipparchia Tithonus 174-217, Gate Keeper E. Hedges (lar. viii.-vi. on meadow grass)...........................................

Xylophasia Lithroxylea 169-208, Light Arches M. Grass (lar. v.-vi. on grass)...

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)......................

Coarse fish ............................
Temperature, mean..........................59°6

,, max. in sun..........................127°2
,, ,, ,, shade .........................69°5
,, min. ,, shade .......................51°7
,, ,, on grass .........................46°7
,, accumltd. above 42° day-degs. 17°6
,, ,, since 1st January 1445°3

Barometer (mean, Mo. vii, 29°98) in.
Mo. vii, 2°88 in. on 14 days

Rainfall since 1st January, 26°44 in. 0°93 in.
mean rel. humidity 79 %

Wind, direction, &c. ........................

Plants and Trees blossoming; note if surviving, premature, or 2nd blossomings

Trees &c. fruit ripening; beginning of seed and fruit harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Heptialus Sylvinus 145-238, Orange Swift M. Heaths (lar. vii. on grasses) ...........
Cidararia Pyraliata 181-218, Barred Straw Carpet M. Gardens (lar. on hawthorn)
Hydrocampa Nymphalitis 149-250, Beautiful China Mark M. Water plants (lar.
iv. on yellow water-lily) .................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)...........................
Coarse fish ................................
...
Temperature, mean .................60°6
    max. in sun...................127°5
    , , shade ..................70°5
    , , min. , shade .............52°6
    , , on grass .................47°5
    , , accumul. above 42° day-degs. 18°6
    , , since 1st January 146°9
Barometer (mean, Mo. vii, 29.98) in.
    (Mo. vii, 2.88 in. on 14 days)
Rainfall since 1st January, 16.53 in. .093 in.
    (mean rel. humidity 79 %)
Wind, direction, &c. ........................... ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings
Convolvulus sepium 172-222, Gt. Bindweed, Hedge-bells, Bell-bind. Hedges...

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Arge Galathea 181-220, Marbled White B. Fields (lar. vii.-v. on grasses)..............
Arctia Caja 165-227, Tiger M. Gardens (lar. viii.-vi. on plants, shrubs)..............
LOOK FOR The Lackey M. 206, Lesser Yellow Underwing M. 222.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)............................
Coarse fish .................................
Temperature, mean .................... 61°7
" max. in sun .................... 126°0
" " shade .................... 72°2
" min. " shade .................... 52°4
" " on grass .................... 46°5
" accum. above 42° day-degs 19°7
since 1st January 1483°6
Barometer (mean, Mo. vii, 29°98) in.
(Mo. vii, 2°88 in. on 14 days)
Rainfall {since 1st January, 16°63 in.
(mean rel. humidit 37°9%)} 0°93 in.
Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Nuphar lutea 196-, Yellow Water-Lily
Clote. Lakes and rivers ....................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvæ &c. appearing.
Bryophila Perla 158-236, Marbled Beauty M. Old Walls (lar. x.-vi. on lichens).
Boarmia Rhomboidaria 186-207. Willow beauty M. Gardens (lar. ix.-iv. ivy, oak, rose, &c.) ....................

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, breeding, &c.

Salmon (S). Trout (T) ....................
Coarse fish ....................
Temperature, mean .................. 62°2
  max. in sun .................. 128°6
  "  "  " shade ............ 72°6
  min.  "  " shade ............ 53°3
  "  "  on grass............. 47°5

accumulated above 42° day-degs. 20°2
since 1st January 1503°

Barometer (mean, Mo. vii, 29°98) in
(Mo. vii. 2°88 in. on 14 days)
Rainfall (since 1st January, 16°72 in.) . 093 in.
(mean rel. humidity 79°)

Wind, direction, &c. ..................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Nymphaea alba 197, White Water-Lily.
Lakes and rivers .............................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Noctua Triangulum 187-206, Double Square-spot M. (lar. iv.-v. on willow, bramble) .....................
Mania Typica 145-249, Gothic M. Walls (lar. ix.-iv. on low plants) .....................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S), Trout (T) .....................
Coarse fish ...............................
Temperature, mean ........................................62° 1

" max in sun ..........................122° 9

" " shade ..........................71° 8

" min. " shade ..........................54° 2

" on grass ..................................48° 7

" accumltd. above 42° day-degs. 20° 1

since 1st January 152° 9

Barometer (mean, Mo. vii, 29° 98)  in.
(Mo. vii, 2° 88 in. on 14 days)

Rainfall : since 1st January, 16° 81 in.
(mean rel. humidity 79 %)

Wind, direction, &c..............................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Apricot ripe (G.W.) .................................
Rye harvest begins (G.W.) ..........................

Trees &c. leaves changing (half. gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Argynnis Paphia 185-234, Silver Streak
Fritillary B. Woods (lar. vii.-vi. wood
and sweet violet) .................................

Caradrina Cubiculiris 166-240, Pale Mot-
tled Willow M. Thatch (lar. ix.-vi. on
grasses) ...........................................

Lasiocampa Quercifolia 182-206, Oak Eg-
gar M. Hedges (lar. ix.-v. on willow,
plum, &c.) ........................................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .........................
Coarse fish ....................................
Temperature, mean .................61°9

  ,,  max. in sun.................130°1

  ,,  ,,  ,,  shade ............72°5

  ,,  min.  ,,  shade ............53°3

  ,,  on grass .................48°4

,,  accumul'd. above 42°  day-degs. 19°9

  ,,  since 1st January 1543°8

Barometer (mean, Mo. vii, 29°98)  in.

  Mo. vii, 2°88 in. on 14 days

Rainfall  since 1st January, 16°31 in.  °93 in.

  mean rel. humidity 79%}

Wind, direction, &c.  

Plants &c. blossoming: note if surviving, premature, or 2nd blossomings.

Epilobium hirsutum 178-234, Gt. hairy
  Willow-herb, Apple-, Cherry-, Custard-, Gooseberry-pie.  Waste places .............

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half. gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Caradrina Alsines 181-223, White Line Rustic M. (lar. ix.-iv. on chickweed) ...

Rivula Sericealis 187-207, Straw Dot M. Marshes (lar. v. on ---) .............

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T)....................

Coarse fish ................................
Temperature, mean ...................... 61° 5

max. in sun ..................... 131° 1

max. \"shade\" .................... 73° 3

min. \"shade\" .................... 51° 5

\"on grass .................... 46° 4

\"accumltd. above 42° day-degs. 19° 5

\"since 1st January 1563° 3

Barometer (mean, Mo. vii, 29° 98) in.

Mo. vii. 2° 88 in. on 14 days

Rainfall since 1st January, 17° 00 in.

\{mean rel. humidity 79 \%\}

Wind, direction, &c. ..................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

*Humulus Lupulus*, Hop (G.W.) .........

Trees &c. fruit ripening; beginning of fruit and seed harvests.

[Rye harvest beginning, Hoff. Gies.] 135, 148

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvæ &c. appearing.

*Vanessa Urtica* 169-275 and 67, Small Tortoise-shell B. *Gardens* (lar. v.-viii. on nettle) ....................

*Eubolia Mensuraria* 189-214, Small Mallow M. *Grassy woods* (lar. vi. on grasses) ...

LOOK FOR Vapour M. 240.

Fish. Reptiles.

Birds: migration, &c.

Poultry moult (G.W.) ..................

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ..................

Coarse fish ..................
Temperature, mean............................61°

"      max. in sun.......................128°

"      " shade .........................72°

"      min. " shade ......................51°

"      on grass .........................44°

,, accumul. above 42° day-deg. 19.1
,, since 1st January 1082.4

Barometer (mean, Mo. vii, 29°98) in:
{Mo. vii, 29°88 in. on 14 days }

Rainfall since 1st January, 17°09 in. -093 in.
{mean rel. humidity 79% }

Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Clematis Vitalba 172-215, Traveller's Joy,
Virgin's-bower. Hedges....................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Stilpnotia Salicis 188-220, White Satin M.
Willows (lar. viii.-v. on poplar, willow)

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Coarse fish..............................
202-163, Mo. VII., JULY 21, 188

Temperature, mean ..........................62°3

" max. in sun ......................130°2
" , " shade ......................73°5
" , " shade ......................52°9
" , " on grass ......................47°2

" accum. above 42° day-deg. 20°3 since 1st January 1602°7

Barometer (mean, Mo. vii. 29°98) in.

Rainfall (Mo. vii. 2°88 in. on 14 days)

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossoming.


Moist woods ..........................

Trees &c. fruit ripening; beginning of fruit and seed harvests.
Wheat harvest begins (G.W.) ..........................

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Limenitis Sibilla 185-220, White Admiral or Honeysuckle B. Woods (lar. viii.-v.
on honeysuckle) ..........................

Fish, Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing, Sports.

Salmon (S), Trout (T) ..........................
Coarse fish ..........................
Temperature, mean...63° 0
  "  max. in sun...131° 0
  "  "  "  shade...74° 5
  "  min. "  "  shade...53° 6
  "  "  on grass...47° 7
  "  accum. above 42° day-degs. 21° 0
  "  since 1st January 1623° 7
Barometer (mean, Mo. vii, 29° 98) in.
Mo. vii, 2° 88 in. on 14 days
Rainfall since 1st January, 17° 93 in.
mean rel. humidity 79%

Wind, direction, &c.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

DIOPSACUS SYLVESTRIS 184-214, Wild Teasel, Carder's-thistle. Waste places

Trees &c. fruit ripening; beginning of fruit and seed harvests.
Wild Cherry ripe (G.W.)

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Vanessa to 146-233 and 77, Peacock B.
Woods, gardens (lar. vi.-vii. on nettle)...
Polyommatus (Lycana) Corydon 174-229,
Chalk Hill Blue B. Chalk downs (lar. x.-vi. tufted horse-shoe vetch)

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)
Coarse fish
204-161, Mo. VII., JULY 23, 188.

Temperature, mean.......................... 60°9

" max. in sun................. 129°2

" " shade .................. 70°8

" min. " shade ............. 53°6

" " on grass ............... 48°9

" accum. above 42° day-degs. 18°9

" since 1st January 1642°6

Barometer (mean, Mo. vii, 29°98) in.
(Mo. vii, 2°88 in. on 14 days)

Rainfall (since 1st January, 17.37 in. - 0.93 in.
(mean rel. humidity 79°%)

Wind, direction, &c. .........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Scabiosa succisa 173-239, Devil's-bit,
Blue-ball, Blue buttons and bonnets.

Pastures ......................................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
Noctua C-Nigrum 149-283, S. Hebrew Character M. comes to light (lar. iv. & x.
on low plants) .............................

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T).........................
Coarse fish ..............................
Temperature, mean .................. 59°.4
   , max. in sun .................. 131°.6
   , , shade .................. 69°.4
   , , , shade .................. 51°.1
   , on grass .................. 45°.8
   , accum. above 42° day-degs. 17°.4
   , , since 1st January 1660°
Barometer (mean, Mo. vii, 29°.98)   in.
  (Mo. vii, 2°.88 in. on 14 days)
Rainfall : since 1st January, 17°.45 in. 093 in.
(mean rel. humidity 79 %)
Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Calluna vulgaris—Com. Ling, Heather.
Heaths ................................
Erica Tetralix—Com. Heath, Cross-leaved Heath. Heaths and woods ..............

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Thecla W-album 187-223, Black hair-streaked B. Flowers of bramble (lar. v-vi. on wych elm) ..................
Macaria Liturata 171-227, Tawny-bar Angle M. Fir woods (lar. ix. larch, Scotch fir) ...................

Fish. Reptiles.

Birds: migration, &c.

Animals; seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) .....................
Coarse fish ..........................
Temperature, mean .................. 59° 2

,, max. in sun .................. 130° 0

,, ,, shade .................. 70° 4

,, min. ,, shade .................. 50° 0

,, ,, on grass ............... 43° 8

,, accum. above 42° day-degs. 17° 2

,, ,, since 1st January 1677° 2

Barometer (mean, Mo. vii, 29° 98) 2° 88 in.

Rainfall 29° 98 in. on 14 days

Wind, direction, &c. 0° 93 in.

Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) : leaves falling.

Insects, Larvae &c. appearing.


Clisocampa Neustria 195-217, Lackey M. At rest (lar. v.-vii. on fruit trees) ........

Bees kill the drones (G.W.) ............

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) ..................,

Coarse fish ..........................
Temperature, mean..........................59°3

  "  max. in sun......................127'2
  "  "  shade ......................69'7
  "  min.  "  shade .................51'2
  "  "  on grass .................46'9

"  accumul. above 42° day-degs. 17'3
  "  since 1st January 1694'5
Barometer (mean, Mo. vii, 29'98)   in.
Rainfall since 1st January, 17'65 in.

Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
ARTREMISIA VULGARIS 203-214, Mugwort, Fellon-herb. Waste places .............

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
LOOK FOR Figure-of-Eight M. 260.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Coarse fish. ........................
Temperature, mean..........................59°8
      max. in sun....................132°3
      " max. shade ..................70°7
      " min. shade ..................50°8
      on grass .....................45°3
      accunltd. above 42° day-degs. 17°8
      since 1st January 1712°3
Barometer (mean, Mo. vii, 29°98) in,
      Mo. vii, 2°28 in. on 14 days
Rainfall; since 1st January, 17°74 in. 
      mean rel. humidity 79°/o
Wind, direction, &c. ..................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
Hipparchia (Satyrus) Semele 174-220,
Grayling or Rock-eyed Underwing B.
Heaths (lar. vii.-vi. on grasses).........
LOOK FOR Brimstone B. 234, Dun Footman M. 218, Red Twin-spot Carpet M.
218 and 131.

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)......................
Coarse fish..................................
Temperature, mean ..............................58°.9

  ,  max. in sun ......................123°.0
  ,  , shade ......................69°.4
  ,  min. , shade ......................50°.2
  ,  on grass ......................44°.9

  ,  accum. above 42° day-degs. 16°.9; since 1st January 1729.2
Barometer (mean, Mo. vii, 29°.98) in.
(Mo. vii, 2°88 in. on 14 days)
Rainfall 1st January, 17°.84 in.
  mean rel. humidity 79 %

Wind, direction, &c ................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Lithosia Complanula 188-222, Scarce Footman M. Flies at dusk (lar. viii.-vi. on lichens, fir) ..................................Cosmia Trapesina 199-217, Dun-bar M. (lar. iv.-vi. on forest trees and other caterpillars) .....................................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T) ......................
Coarse fish ..................................
Temperature, mean ....................... 59°2
   " max. in sun .................... 128°5
   " " " shade .................... 70°2
   " min. " shade .................... 50°2
   " " on grass .................... 45°1
   " accumul'd. above 42° day-degs. 17°2
   " " since 1st January 1746°4
Barometer (mean, Mo. vii, 29°98) in.
   Mo. vii, 2°88 in. on 14 days
Rainfall; since 1st January, 17°93 in.
   mean rel. humidity 79 %
Wind, direction, &c. .....................
Plants & c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees & c. fruit ripening; beginning of fruit and seed harvests.

Trees & c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae & c. appearing.
YPsipetes Elutata 190-234, July Highflyer
M. Woods (lar. x.-v. on hazel, willow, alder)..............................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.
Salmon (S). Trout (T)....................... 
Coarse fish ..............................
211-154, Mo. VII., JULY 30, 188.

Temperature, mean...................60°

" max. in sun.................130°

" " shade ..................70°

" min. " shade ...............52°

" on grass ................47°

" accumltd. above 42° day-degs. 18°

since 1st January 1764.4

Barometer (mean, Mo. vii, 29°98) in.

Rainfall since 1st January, 18°02 in. 093 in.

\ Wind, direction, &c. .....

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.


[Snowberry fr. ripe, Hoff. Gies.] 152

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

LOOK FOR Copper Underwing M. 225.

Fish. Reptiles

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports.

Salmon (S). Trout (T) .................

Coarse fish.........................
Temperature, mean..........................59°

  max. in sun.................124'1

  " " shade .....................69'3

  min. " shade ................50'5

  " on grass .................44'6

" accumul'd. above 42° day-degs.17'0
  " since 1st January1781'4

Barometer (mean, Mo. vii, 29'98) in.

Rainfall since 1st January, 18'11 in. 093 in.

mean rel. humidity 79 %

Wind, direction, &c. .........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Cossus Ligniperda 191-251, Goat M. Trees, pailling (lar. ix.-x. feed on wood of large ashes, elms) .........................

LOOK FOR Brown Hair-streaked B. 224,
August Thorn M. 236.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Fishing. Sports. Gun and Game licences to be taken out.

Salmon (S). Trout (T) .....................

Coarse fish................................
Temperature, mean..........................58°0

" max. in sun..................129'6

" " min. in shade ............69'3

" min. in shade ............49'1

" on grass .............44'0

" accumltd. above 42° day-degs. 16'0

Barometer (mean, Mo. viii, 29'97) in.

Rainfall since 1st January, 1797'4

Wind, direction, &c......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

[Deadly Nightshade fr. ripe, Hoff. Gies.]

Insects, Larvae &c. appearing.

Cythia Cardui 189-256 and 146, Painted Lady B. Thistles, roads (lar. vi.-ix. on thistles)

Mania Maura 189-240, The Old Lady M. Out-houses (lar. ix.-v. on dock, ivy)

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Wildfowl

Hares—no close season

Rabbits

Salmon

Trout

Coarse fish.
Temperature, mean..........................58°7
   " max. in sun......................127°1
   " " , shade ....................67°2
   " min. , shade ...................49°8
   " on grass .....................44°7
   " accumltd. above 42° day-degs. 16°7
   " " since 1st January 1814'1
Barometer (mean, Mo. viii, 29°97) in
   Mo. viii, 3°17 in. on 14 days
Rainfall since 1st January, 18°32 in. - 101 in.
   mean rel. humidity 31 %
Wind, direction, &c. .........................
Plants &c. blossoming : note if surviving, premature, or 2nd blossoms.

Trees &c. fruit ripening ; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
LOOK FOR Brown Argus B. 233, Hop Wireworm Beetle 226.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

   Wildfowl .............................
   Hares................................
   Rabbits ............................
   Salmon ............................
   Trout .............................
   Coarse fish........................
Temperature, mean.............................58°9
    ,, max. in sun......................122'7
    ,, ,, shade ...................68'0
    ,, min. ,, shade ................50'4
    ,, on grass ....................46'2
    ,, accumltd. above 42° day-degs. 16'9
    ,, since 1st January 1831'0
Barometer (mean, Mo. viii, 29'97) in.
    ,, Mo. viii, 3'13 in. on 14 days
Rainfall since 1st January, 28'42 in. *101 in.
    mean rel. humidity 81%\%
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

    Wildfowl ................................
    Hares ..................................-
    Rabbits ................................
    Salmon ................................
    Trout .................................
    Coarse fish.........................
Temperature, mean.......................59°2

,, max. in sun ................125°7
,, ,, shade..................69°0
,, min., shade................51°6
,, ,, on grass ..............46°7
,, accumld. above 42° day-degs. 17°2
,, ,, since 1st January 1848°2

Barometer (mean, Mo. viii, 29°97) in.

Rainfall since 1st January, 18°52 in. = 101 in.

Wind, direction, &c. ..................................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c., appearing.

LOOK FOR Dusky Swallow M. 224.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Wildfowl ........................................
Hares..............................................
Rabbits...........................................

Salmon ...........................................
Trout.............................................
Coarse fish.................................
Temperature, mean.......................... 59°4

     „ max. in sun.................... 118°1
     „ „ „ shade ..................... 70°3
     „ „ „ min. „ „ shade ............ 50°5
     „ „ „ on grass .................. 46°8

     „ accumld. above 42° day-degs. 17°4
     „ „ since 1st January 1865-6
Barometer (mean, Mo. viii, 29°97) in.
     „ (Mo. viii, 3.13 in. on 14 days)
Rainfall: since 1st January, 1862 in.
     „ (mean rel. humidity 81 %)
Wind, direction, &c. ..................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Apatura Iris 192-214, Purple Emperor B.
Woods (lar. viii.-v. on willows) .............

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Wildfowl ...........................................
Hares ..............................................
Rabbits ...........................................
Salmon ...........................................
Trout .............................................
Coarse fish ........................................
Temperature, mean .................. 60° 2

" max. in sun .................. 124° 4
" " " shade .................. 69° 8
" min. " shade .................. 52° 6
" " on grass .................. 46° 9

" accumultd. above 42° day-degs. 18° 2 since 1st January 188° 8
Barometer (mean, Mo. viii. 29° 97) in.
Mo. viii. 3° 73 in. on 14 days
Rainfall since 1st January, 18° 72 in.
mean rel. humidity 81 %

Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr.- half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
Lithosia Griseola 208-232, Dun Footman M. Lichens on trees (lar. vii.-vi. on lichens) ......................
Coremia Ferrugata 208-236, Red Twin-spot Carpet M. See 131 ..........................
LOOK FOR The Tissue M. 242, Hop Cone Fly 238.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Wildfowl ................................
Hares ....................................
Rabbits ..................................
Salmon ....................................
Trout .....................................
Coarse fish .................................
Temperature, mean .................................. 60°.7
    "    max. in sun ......................... 120°.0
    "    "    shade ................. 70°.7
    "    min. "    shade .............. 53°.3
    "    "    on grass ............. 48°.3
    "    accumul. above 42° day-degs. 18°.7
    "    "    since 1st January 1902.5
Barometer (mean, Mo. viii, 29°.97) in.
    "    Mo. viii, 3°.13 in. on 14 days
Rainfall since 1st January, 18°.82 in.
    mean rel. humidity 81% in.
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
   Acherontia Atropos 123-282, Death’s-head Hawk M. At rest on pailings, &c. (lar.
   Ix.-x. on potato leaves) ....................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

   Wildfowl ....................................
   Hares ....................................
   Rabbits ..................................
   Salmon ..................................
   Trout ..................................
   Coarse fish ..............................
Temperature, mean 60°7
  max. in sun 125'3
  "  "  "  shade 70'6
  min.  "  "  shade 52'8
  "  "  on grass 47'6
  accumltd. above 42° day-degs. 18'7
since 1st January 1921'2
Barometer (mean, Mo. viii, 29'97) in.
  Mo. viii, 3'13 in. on 14 days
Rainfall (mean, Mo. viii, 3'13 in. on 14 days)
  since 1st January, 18'92 in.
  mean rel. humidity 87 %
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Wildfowl
Hares
Rabbits
Salmon
Trout
Coarse fish
Temperature, mean.....................60°4
  "  max. in sun..................130°2
  "  "  "  shade ..............71°3
  "  min.  "  shade .............51°3
  "  "  on grass .............46°2
  "  accumulatd. above 42° day-degs. 18°4
since 1st January 1939°6
Barometer (mean, Mo. viii, 29°97)  in.
  Mo. viii, 3°73 in. on 14 days
Rainfall since 1st January, 19°02 in.
  mean rel. humidity 81 %
Wind, direction, &c.................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Vanessa Polychloros 201-270 and 94, Gt.
Tortoise-shell B. Elms (lar. x.-viii. on elm, willow) ..................
Cerigo Cytherea 217-226, Straw Underwing.
M. Dry grassy places (lar. ix.-iv. on grasses) ..........................
LOOK FOR Canary-shouldered Thorn M. 245.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Wildfowl ..................................
Hares...................................
Rabbits ................................
Salmon ................................
Trout...................................
Coarse fish............................
Temperature, mean .................. 59°6

" max. in sun ............... 126°5

" , shade .................. 69°5

" min., shade ............ 51°2

" on grass ............. 46°5

,, accum. above 42° day-degs. 17°6

,, since 1st January 1957°2

Barometer (mean, Mo. viii, 29°97) in.

Mo. viii, 3°13 in. on 14 days

Rainfall since 1st January, 19°72 in. 

(mean rel. humidity 81 %)

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

'Trees &c. fruit ripening; beginning of fruit and seed harvests.

'Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
Triphena Orbina 195-259, Lesser Yellow Underwing M. At light (lar. viii-v. on broom, low plants) ......................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Wildfowl ..................................
Hares ......................................
Rabbits .....................................
Salmon ....................................
Trout .....................................
Coarse fish .................................
Temperature, mean .......................... 60° 2

\[\text{max. in sun} \quad 121.7\]
\[\text{min. in shade} \quad 51.0\]
\[\text{on grass} \quad 46.4\]

\[\text{accumulated above 42\degree} \\text{day-degs.} \quad 18.2\]

Since 1st January 1975,4
Barometer (mean, Mo. viii, 29.97) in.
(Mo. viii, 29.13 in. on 14 days)
Rainfall (since 1st January, 20.22 in.) 101 in.
(mean rel. humidity 81 %)

Wind, direction, &c. .................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Polymannatus Argiolus 201-237 and 160,
Azure Blue B. Hills (lar. vii. on kidney vetch).
Luperina Testacea 123-258, Flounced Rustic M. (lar. iii. on grass stems) ..................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Wildfowl ............................................
Hares .............................................
Rabbits ...........................................
Salmon ............................................
Trout .............................................
Coarse fish .....................................
224-141, Mo. VIII., AUG. 12, 188.

Temperature, mean......................66°.5

   " max. in sun.....................127.4
   "   " shade ......................71.6
   " min. " shade ......................51.1
   "   " on grass ......................46.1

   " accumld. above 42° day-degs. 18.5
   "   " since 1st January 193°.9

Barometer (mean, Mo. viii, 29.97) in.

   Mo. viii, 323 in. on 24 days

Rainfall since 1st January, 193°.3 in.

   mean rel. humidity 82 %

Wind, direction, &c. ........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and corn harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Thecla Betula 212-240, Br. Hair-streaked B. Woods (lar. v.-vi. on birch, sloe, &c.)

Triphana Fimbria 203-257, Broad-bordered yellow Underwing M. Light (lar. x.-v. on oak, ash, primrose)................

Eremobia Ochroleuca 216-239, Dusky Swallow M. Thistles (lar. v.-vi. on cock's-foot grass)................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Grouse ........................................

Wildfowl ......................................

Snipe, &c. ...................................

Hares ........................................

Rabbits ......................................

Salmon ........................................

Trout .........................................

Coarse fish...................................

Temperature, mean .................. 62°.0

" max. in sun ................ 125°.8
" " shade ..................... 72°.3
" min. " shade .................. 54°.0
" on grass ................... 48°.5

" accumltd. above 42° day-degs. 20°.0

since 1st January 2013°9
Barometer (mean, Mo. viii, 29°97) in.
Rainfall (mean rel. humidity 81%)

Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossoming.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvæ &c. appearing,

Heliophobus Popularis 171-249, Feathered Gothic M. (lar. iv.-v. on roots of grasses)
Amphipyra Pyramidæa 211-248, Copper Underwing M. (lar. v.-vi. on forest trees)
LOOK FOR Square-spot Rustic M. 235,
White-spotted Pinion M. 228.

Fish. Reptiles.

Birds: migration, &c.
Lapwings congregate (G.W.).................

Animals: seen, breeding, &c.

Grouse ................................
Wildfowl ...........................
Snipe, &c. ........................
Hares ................................
Rabbits ...........................
Salmon ............................
Trout ................................
Coarse fish ........................
Temperature, mean.................. $61.4^\circ$ F

  " max. in sun.............. 126.0
  " " shade .............. 71.2
  " min. " shade .............. 54.1
  " " on grass .............. 49.8

" accumltd. above 42° day-degs. 19.4

" since 1st January 2033.3

Barometer (mean, Mo. viii, 29.97) in.

Rainfall (mean, rel. humidity 81 %)

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Elater lineatus, Wireworm Beetle (middle of August—C.W.) (lar. for 5 years) ......

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Grouse ........................................
Wildfowl ....................................
Snipe, &c. ..................................
Hares ........................................
Rabbits .....................................

Salmon ......................................
Trout ........................................
Coarse fish .................................
Temperature, mean ......................... 60.7°
  "  max. in sun  ...................... 124.1°
  "  " shade  .................... 66.7°
  "  min.  " shade  .................. 52.8°
  "  on grass  ....................... 48.7°
  "  accum. above 42° day-degs. 18.7°
  "  since 1st January 2052.0 in.

Barometer (mean, Mo. viii, 29.97) in.
  Mo. viii, 373 on 14 days
Rainfall since 1st January, 19.63 in.
  mean rel. humidity 81.0%
  "  101 in.

Wind, direction, &c. ..........................
Plants &c. blossoming: note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening: beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Amphipyra Tragopogonis 220-237, The Mouse M. Windows (lar, v.-vi. on
larkspur) ..................................

Fish. Reptiles.

Birds: migration, &c.
Birds resume their spring notes (G.W.) ...

Animals: seen, breeding, &c.

Grouse ..................................
Wildfowl ..................................
Snipe, &c. ..................................
Hares ..................................
Rabbits ..................................
Salmon ..................................
Trout ..................................
Coarse fish .................................
Temperature, mean .................................. 60°2
" max. in sun .................................. 120°3
" " " shade .................................. 70°6
" min. " shade .................................. 52°5
" " on grass .................................. 47°7
" accum. above 42° day-degs. 18°2
" " since 1st January 2070°2
Barometer (mean, Mo. viii, 29°97) in.
(Mo. viii, 3°13 in. on 14 days)
(Rainfall since 1st January, 29°73 in.)
(mean rel. humidity 81%)
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossoming.
LOOK FOR Meadow Saffron 240.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. bald ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ..........................................
Wildfowl ........................................
Snipe, &c. ........................................
Hares ...........................................
Rabbits ........................................
Salmon ........................................
Trout ...........................................
Coarse fish .....................................
229-136, Mo. VIII., AUG. 17, 188

Temperature, mean .......................... 59°.3

" max. in sun .................. 117°.9

" " " shade .............. 69°.0

" min. " shade .............. 51°.0

" on grass ............... 45°.4

" accumltd. above 42°, day-degs. 17°.3

" since 1st January 2087°.5

Barometer (mean, Mo. viii, 29°.97) in.

Mo. viii, 3°.13in. on 14 days

Rainfall - since 1st January, 19°.82 in. - 101 in.

mean rel. humidity 81 %

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

LOOK FOR Red Underwing M. 241.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Grouse ............................................

Wildfowl ........................................

Snipe, &c..........................................

Hares ............................................

Rabbits ..........................................

Salmon ..........................................

Trout ............................................

Coarse fish .................................
Temperature, mean........................60°

" max. in sun..............125°

" max. in shade...........71°

" min. in shade...........51°.

" on grass..............46°.

" accumltd. above 42° day-degs.18° since 1st January 210°.

Barometer (mean, Mo. viii, 29°7) in.

Rainfall since 1st January, 19°2 in. 101 in.

Wind, direction, &c. ..................................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.

Grouse ...........................................

Wildfowl ........................................

Snipe, &c....................................

Hares ........................................

Rabbits ......................................

Salmon ........................................

Trout ........................................

Coarse fish.................................
Temperature, mean ......................... 59°.7
" max. in sun .................. 118°.5
" " " shade ............... 69°.0
" min. " shade .............. 51°.7
" " on grass ............ 46°.6
" accumltd. above 42° day-degs. 17°.7
" since 1st January 2123°.2
Barometer (mean, Mo. viii, 29°.97) in.
Mo. viii, 3°.13 in. on 14 days
Rainfall since 1st January, 90°.02 in.
mean rel. humidity, 81 %
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing. 
LOOK FOR September Thorn M. 246.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Shooting, Fishing. Sports.
Grouse ......................
Wildfowl ....................
Snipe, &c. ...................
Hares ........................
Rabbits .....................
Salmon ........................
Trout ........................
Coarse fish ...................
Temperature, mean ............... 59° 8

\[
\begin{align*}
\text{max. in sun} & \quad 121° 8 \\
\text{max. in shade} & \quad 69° 6 \\
\text{min. in shade} & \quad 51° 6 \\
\text{on grass} & \quad 46° 3
\end{align*}
\]

\[
\text{accumulated above 42° day-deg. 17° 8}
\]

Barometer (mean, Mo. viii, 29° 97) in.

\[
\begin{align*}
\text{Mo. viii, 3° 13 in. on 14 days} & \quad 101 \text{ in.}
\end{align*}
\]

Rainfall since 1st January 2141' 0

Mean rel. humidity 81 %

Wind, direction, &c. 

Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Black-game ..................................
Grouse ........................................
Wildfowl ........................................
Snipe, &c........................................
Hares...........................................
Rabbits ........................................

Salmon ........................................
Trout ...........................................
Coarse fish ....................................
Temperature, mean..................58°-8
' max. in sun ................124°3
' ', ', shade ..........69°5
' ', min. ', shade ...........52°2
' ', on grass ...............46°9
' accum. above 42° day-degs. 16°8
since 1st January 2157°8
Barometer (mean, Mo. viii, 29°-97) in.
(Mo. viii, 3°-13 in. on 14 days)
Rainfall: since 1st January, 20°-22 in.
(mean rel. humidity 82%)
Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
*Polyommatus Agelis 214-257 and 155,
Brown Argus B. Woods (lar. vii.-v. on violets) .........................
*Pamphila Comma 220-246, Pearl Skipper
B. Hills (lar. vi. on leguminous plants)

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ........................................
Black-game ...................................
Wildfowl .....................................
Snipe, &c...................................
Hares ........................................
Rabbits .....................................
Salmon .....................................
Trout ......................................
Coarse fish...............................
Temperature, mean..........................58°8
" max. in sun .........................127°7
" " " shade .........................70°3
" min. " shade ......................49°2
" on grass ......................43°5
" accumltd. above 42° day-degs. 16·8
" since 1st January 2174°6
Barometer (mean, Mo. viii, 29·97) in.
Mo. viii, 3°13 in. on 14 days
Rainfall (mean rel. humidity 81°)
Rainfall since 1st January, 20·33 in.
mean rel. humidity 81°
101 in.
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Geneteryx Rhamni 208-271 and 62, Brimstone B. Woods, lanes (lar. vi.-vii. on buckthorn) ..........................
Noctua Depuncta 234°, Plain Clay M. (lar. iv.-v. on sorrel) ..........................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse .................................
Black-game ............................
Wildfowl .............................
Snipe, &c. ............................
Hares................................
Rabbits ..............................
Salmon ...............................
Trout ................................
Coarse fish ..........................
Temperature, mean .................................. 58°-2
,, max. in sun.......................... 121°-9
,, ,, ,, shade .................. 68°-8
,, min. ,, shade .................. 49°-5
,, ,, on grass .................. 42°-5
,, accumltd. above 42° day-degs. 16°-2
, since 1st January 219°-8
Barometer (mean, Mo. viii, 29°-97) in.
(Mo. viii, 3°-13 in. on 14 days)
Rainfall, since 1st January, 20°-43 in.
(mean rel. humidity 82%)

Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Noctua Xanthographa 225-247, Square-spot Rustic M. (lar. x-v. on plantain)...
LOOK FOR Dusk Thorn M. 251.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Grouse ........................................
Black-game ...................................
Wildfowl ........................................
Snipe, &c...........................................
Hares ...........................................
Rabbits ...........................................

Salmon ...........................................
Trout ............................................
Coarse fish .....................................
Temperature, mean ................... 58°.7
" max. in sun ................... 127°.6
" " " shade ................... 70°.3
" min. " shade ................... 49°.3
" " on grass ................... 43°.3
" accumul. above 42° day-degs. 16°.7
" " since 1st January 2207°.5
Barometer (mean, Mo. viii, 29°.97) in.
Mo. viii, 3°.13 in. on 14 days
Rainfall since 1st January, 20°.53 in. 
(mean rel. humidity 81%)
Wind, direction, &c. .....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.
[Dogwood fr. ripe Hoff. Gies.] 162, 156 ...
Hop-picking begins (G.W.) ..................

Trees &c. leaves changing (half gr. half ch.); leaves falling.
Beech turns yellow (G.W.) 100, 135 ....

Insects, Larvae &c. appearing.
*Ennomos Anguloria* 212-266, August Thorn M. Trees (lar. v.-viii. on forest trees) ...

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse .................................
Black-game ...........................
Wildfowl ..............................
Snipe, &c. ............................
Hares .................................
Rabbits ..............................
Salmon ...............................
Trout .................................
Coarse fish ...........................
Temperature, mean.................58°6
     "     max. in sun............120°6
     "     "     shade ...........68°2
     "     min. "     shade ...........50°2
     "     on grass ............44°5
     "     accumltd. above 42° day-degs. 16°6
     "     since 1st January 2224°1
Barometer (mean Mo. viii, 29°97)  in.
     "     (Mo. viii, 3°23 in. on 14 days)
Rainfall since 1st January, 20°63 in.
     "     mean rel. humidity 88°7%
Wind, direction, &c. ...................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
LOOK FOR Convolvulus Hawk M. 258.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ....................................
Black-game ................................
Wildfowl ................................
Snipe, &c................................
Hares...................................
Rabbits ................................

Salmon ..................................
Trout ...................................
Coarse fish..............................
238-127, Mo. VIII., AUG. 26, 188

Temperature, mean .................. 58° 6

" max. in sun .................. 121.1

" " shade .................. 68.2

" min. " shade .................. 50.6

" on grass .................. 44.2

" accum. above 42° day-degs. 16.6

" since 1st January 224° 7

Barometer (mean, Mo. viii, 29.97) in.

Mo. viii, 3° 13 in. on 14 days

Rainfall since 1st January, 20° 73 in.

mean rel. humidity 82 %

Wind, direction, &c. .................. 101 in.

Plants &c. blossoming: note if surviving, premature, or 2nd blossoming.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Dilophus vulgaris (end of August—C.W.),

Hop Cone Fly, Fever Fly. Hop gardens

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Grouse ........................................

Black-game ....................................

Wildfowl ....................................

Snipe, &c. ....................................

Hares ........................................

Rabbits ....................................

Salmon ........................................

Trout .........................................

Coarse fish .................................
Temperature, mean.......................... 58°3
     ''   max. in sun................. 119'8
     ''   ''    shade .............. 67'7
     ''   min.    ''             50'1
     ''   on grass .............. 44'7
     ''   accumul'd. above 42° day-degs. 16'3
Barometer (mean, Mo. viii, 29'97) in.
     Mo. viii, 3'13 in. on 14 days  101 in.
Rainfall    since 1st January, 20'82 in.
          (mean rel. humidity 81 %)
Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half. gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Agrotis Suffusa 160-275, Dk. Sword-grass
     M. (lar. v.-vii. on lettuce, radish) .......

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ........................................
Black-game ...................................
Wildfowl ....................................
Snipe, &c. ..................................
Hares ......................................
Rabbits ...................................
Salmon ......................................
Trout ......................................
Coarse fish ...............................
Temperature, mean......................57°8
,, max. in sun..................116'5
,, ,, ,, shade...........68'1
,, min. ,, shade.................49'7
,, ,, on grass..............45'2
,, accumul. above 42° day-degs. 15'8
,, ,, since 1st January 227'2
Barometer (mean, Mo. viii, 29'97) in.
Rainfall since 1st January, 20'92 in. = 101 in.
Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Colchicum autumnale 228-, Meadow Saffron. Damp meadows......................

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Orgyia Antiqua 200-276, Vapour M. (lar. vii.-ix. various trees)......................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ........................................
Black-game ...................................
Wildfowl ....................................
Snipe, &c. ..................................
Hares......................................
Rabbits ....................................
Salmon .....................................
Trout ......................................
Coarse fish .................................
Temperature, mean ..........................56°9

,, max. in sun..................116'7
,, ,, ,, shade ..................65'3
,, min. ,, shade ..................50'7
,, ,, on grass ..................45'1
,, accumltd. above 42° day-degs.14'9
since 1st January 2287'7

Barometer (mean, Mo. viii, 29'97) in.
(Mo. viii, 3'23 in. on 24 days)

Rainfall (since 1st January, 27'02 in. 101 in.
(mean rel. humidity 82 %)

Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
Catocala Nupta 229-253, Red Underwing
M. Trees, walls (lar. v.-viii. on willow, poplar) .............................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ...........................................
Black-game ...................................
Wildfowl ......................................
Snipe, &c.....................................
Hares ........................................
Rabbits ......................................
Salmon ........................................
Trout .........................................
Coarse fish .................................

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Temperature, mean .................. 57°6
  „ max. in sun .................. 120°4
  „ „ shade .................. 67°3
  „ min. „ shade .................. 50°3
  „ „ on grass .................. 44°9
  „ accum.ltd. above 42 day-degs. 15°6
  „ „ since 1st January 230°3'
Barometer (mean, Mo. viii, 29°97) in.
  „ „ Mo. viii, 3°13 in. on 14 days
Rainfall since 1st January, 9°12 in.
  „ „ mean rel. humidity 82%)
Wind, direction, &c. .................. 101 in.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Scotasia Dubitata 218-268, The Tissue M.
Light (lar. vi. on buckthorn) .............

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ........................................
Black-game ...................................
Wildfowl ....................................
Snipe &c. ...................................
Hares ........................................
Rabbits ......................................
Salmon .......................................
Trout ........................................
Coarse fish .................................
243-122, Mo. VIII., AUG. 31, 188.

Temperature, mean..............56°'

,, max. in sun ..............117'6
,, ,, ,, shade ...........65'2
,, min.,,, shade ..............48'6
,, ,, on grass ..............3'2
,, accumltd. above 42° day-degs. 14'1
,, ,, since 1st January 2317'4
Barometer (mean, Mo. viii, 29'97) in.
Mo. viii, 3'13 in. on 14 days
Rainfall since 1st January, 21'22 in.
(mean rel. humidity 81 %)

Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Vanessa Antiopa 243-, Camberwell Beauty
B. Flowers (lar. v.-vii. on willow, nettle)
Colias Hyale 234-252, Clouded Yellow B.
Clover fields (lar. vii. clover, melilot) ...

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Grouse ..........................................
Black-game ..................................
Wildfowl ..................................
Snipe, &c. ..................................
Hares ..................................
Rabbits ..................................
Salmon ..................................
Trout ..................................
Coarse fish ..................................
Temperature, mean...................... 57°2
  , max. in sun .................. 116'1
  , , , shade .................. 66'5
  , min. , , shade ............... 49'3
  , , on grass .................. 44'2
  , accumltd. above 42° day-degs. 15'2
  , , since 1st January 2332°6
Barometer (mean, Mo. ix, 29'97) in.
  , , Mo. ix, 3'53 in. on 15 days
Rainfall, since 1st January, 27'34 in.
  , , mean rel. humidity 85 %
Wind, direction, &c. 
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Partridge ................................
Grouse ................................
Black-game ............................
Wildfowl ................................
Snipe, &c. .............................
Hares ................................
Rabbits ...............................
Salmon ................................
Trout ................................
Coarse fish............................
Temperature, mean .......................... $58.1^\circ$F

"     max. in sun .................. $124.6^\circ$

"   " shade  .............. $68.0^\circ$

"   " shade  .............. $49.5^\circ$

"   " on grass  ............. $43.2^\circ$

" accumltd. above $42^\circ$ day-degs. $16.1^\circ$

Barometer (mean, Mo. ix, 29.97) in.

"     since 1st January 2348.7 in.

Rainfall (mean, Mo. ix, 3.53 in. on 15 days)

"     since 1st January, 21.46 in. 1.18 in.

Wind, direction, &c. .....................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr., half ch.); leaves falling.

Insects, Larvae &c. appearing.

*Ennomos Thitaria* 221-279, Canary-shouldered Thorn M. *Light* (lar. vi.-vii. on oak, willow) .............................................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Partridge ........................................

Grouse ...........................................

Black-game .....................................

Wildfowl ......................................

Snipe, &c. ....................................

Hares.............................

Rabbits ........................................

Salmon ...........................................

Trout ...........................................

Coarse fish ....................................
246-119, Mo. IX., SEPT. 3, 188.

Temperature, mean .................. 57°9

" max. in sun ................ 120°0

" max. " shade .............. 67°5

" min. " shade .............. 50°0

" on grass .............. 43°8

" accumltd. above 42°day-degs. 15°9

since 1st January 2364°6

Barometer (mean, Mo. ix, 29°72) in.

Rainfall since 1st January, 27°58 in. = 218 in.

mean rel. humidity 85 %

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Ennomos Erosaria 231-273, September

Thorn M. At rest (lar. vi. on oak, birch)

Fish, Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.

Partridge ..................................

Grouse ..................................

Black-game ..................................

Wildfowl ..................................

Snipe, &c. ..................................

Hares ..................................

Rabbits ..................................

Salmon ..................................

Trout ..................................

Coarse fish .................................
Temperature, mean ...............57°8
" max. in sun................118'3
" " shade .............68'0
" min. " shade ..........48'6
" " on grass ............42'5
" accum. above 42° day-degs. 15'8
" " since 1st January 2380'4
Barometer (mean, Mo. IX, 29'97) in.
Rainfall - since 1st January, 21'69 in.
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.
Grapes ripen (G.W.) 165

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Partridge ................................
Grouse ................................
Black-game ..............................
Wildfowl ................................
Snipe, &c. ................................
Hares ...................................
Rabbits ................................
Salmon ...................................
Trout ...................................
Coarse fish ..............................
Temperature, mean.................57°7
      max. in sun..................117°9
      " " shade ....................66'6
      " " shade ....................50'2
      " on grass ...................43'9
" accumultd. above 42° day-degs.15'7
      since 1st January 23961
Barometer (mean, Mo. ix, 29'97) in.
(Mo. ix, 3'53 in. on 15 days)
Rainfall since 1st January, 21'81 in.
     mean rel. humidity 85 %

Wind, direction, &c. .................
Plants &c. blossoming; note if surviving, premature, or 2nd blossoming.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvæ &c. appearing.
Dellephils livornica 248, Striped Hawk M. (lar. vi.-vii. on vine, galium) .........

Fish. Reptiles.

Birds: migration, &c.
Wood owls hoot (G.W.).................

Animals: seen, breeding, &c.

Partridge ................................
Grouse ................................
Black-game ............................
Wildfowl ................................
Snipe, &c. ................................
Hares ...................................
Rabbits ................................

Salmon ................................
Trout ................................
Coarse fish............................
249-116, Mo. IX., SEPT. 6, 188,

Temperature, mean..........................57°1
" max. in sun.........................113'5
" " shade ..............................66'2
" min. " shade.........................49'2
" on grass .........................43'3

" accumld. above 42° day-degs. 15'1
" since 1st January 241'2
Barometer (mean, Mo. ix, 29'97) in.

Rainfall since 1st January, 21'93 in. [mean rel. humidity 85 %]

Wind, direction, &c. ............................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvæ &c. appearing.
Zeuzera Æsculi 249, vii., Wood Leopard M. Trees (lar. vii.-v. on the wood of forest trees) 

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Partridge ........................................
Grouse ........................................
Black-game ....................................
Wildfowl .......................................
Snipe, &c. ......................................
Hares ...........................................
Hares ...........................................
Rabbits ........................................
Salmon ........................................
Trout ...........................................
Coarse fish ..................................
Temperature, mean..........................57°8

,, max. in sun .......................114'4

,, ,, ,, shade .....................66'9

,, min. ,, shade ...................50'2

,, ,, on grass .....................44'8

,, accum. above 42° day-degs. 15'8

,, since 1st January 2427°

Barometer (mean, Mo. ix, 29°97) in.

Rainfall since 1st January, 22°05 in.

Wind, direction, &c. .......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish, Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Shooting, Fishing, Sports.

Partridge ..................................
Grouse ..................................
Black-game ................................
Wildfowl ................................
Snipe, &c ................................
Hares ..................................
Rabbits ..................................

Salmon ..................................
Trout ..................................
Coarse fish ..............................
251-114, Mo. IX., SEPT. 8, 188

Temperature, mean..............56°7

" max. in sun ..............114°0

" " shade ..............66°0

" min. " shade ..............48°2

" on grass ..............43°2

" accumltd. above 42° day-degs. 14°7

" since 1st January 2441°7

Barometer (mean, Mo. ix, 29°97) in.

\[
\begin{cases}
\text{Mo. ix, 3°53 in. on 15 days} \\
\text{mean rel. humidity 85%}
\end{cases}
\]

Rainfall since 1st January, 22°17 in. ....118 in.

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half. gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

*Ennomos Fuscantaria* 235-275, Dusk Thorn M. *Light* (lar. vi.-vii. on ash, privet)...

LOOK FOR Lunar Underwing M. 260.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.


Partridge ..................................

Grouse ..................................

Black-game ................................

Wildfowl ................................

Snipe &c. ................................

Hares ....................................

Rabbits ..................................

Salmon ..................................

Trout ..................................

Coarse fish.............................
Temperature, mean: 56°2
  max. in sun: 114°9
  " " " shade: 64°7
  min. " shade: 49°2
  " on grass: 44°0

" accumltd. above 42° day-degs: 14°2

Barometer: mean, Mo. ix, 29°97 in.
  Mo. ix, 3°53 in. on 15 days

Rainfall: since 1st January, 22°8 in.
  mean rel. humidity 85% in.

Wind, direction, &c.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.
[Privet fr. ripe, Hoff. Gies.] 172, 177

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Hadena Protea 252-, Brindled Green M.
Tree trunks (lar. v.-vi. on oak)...

LOOK FOR the Brick M. 267.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

Partridge
Grouse
Blackgame
Wildfowl
Snipe, &c.
Hares
Rabbits
Salmon
Trout
Coarse fish
Temperature, mean ............... 56°6
  "  max. in sun .............. 113°3
  "  "  "  shade .............. 65°2
  "  min.  "  shade .......... 49°5
  "  "  on grass .............. 43°7
  "  accumltd. above 42° day-degs. 14°6
  "  since 1st January 2470°5
Barometer (mean, Mo. xi, 29°97) in.
  "  Mo. ix, 3°53 in. on 15 days
Rainfall (since 1st January, 22°40 in. .... 118 in.
  "  mean rel. humidity 85 %
Wind, direction, &c. .................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, breeding, &c.

  Partridge ..................................
  Grouse ..................................
  Black-game ................................
  Wildfowl ..................................
  Snipe, &c. ................................
  Hares ..................................
  Rabbits ..................................
  Salmon ..................................
  Coarse fish .............................
Temperature, mean.........................56°4

" max. in sun..................105°3
" " " shade .............64°9
" min. " shade ............49°3
" " on grass ..................44°3

" accum. above 42° day-degs. 14°4
" " since 1st January 2484°9
Barometer (mean, Mo. ix, 29°97) in.
(Mo. ix, 3°53 in. on 15 days)
Rainfall (since 1st January, 24°35 in.
(mean rel. humidity 85%)
Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.
Beans cut (G.W.)..........................

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Snipe arrives 124 (Scolopax gallinaga)......

Animals: seen, &c.

Partridge ........................................
Grouse ..........................................
Black-game ....................................
Wildfowl ......................................
Snipe, &c. ....................................
Hares .........................................
Rabbits ......................................

Salmon ........................................
Coarse fish....................................
Temperature, mean ................. 56° 0

,, max. in sun .................. 112° 1

,, ,, ,, shade ............... 63° 8

,, min. ,, shade .............. 50° 2

,, ,, on grass .................. 45° 1

,, accumlted. above 42° day-degs. 14° 0

,, since 1st January 2498° 9

Barometer (mean, Mo. ix, 29° 97) in.

{Mo. ix, 5° 53 in. on 15 days
Rainfall since 1st January, 22° 64 in. } 118 in.
{mean rel. humidity 85 %}

Wind, direction, &c. ................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

LOOK FOR Ivy 270.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Starlings congregate (G.W.) ................

Animals: seen, &c.

Partridge ..........................
Grouse ..........................
Black-game ..........................
Wildfowl ..........................
Snipe, &c. ..........................
Hares ..........................
Rabbits ..........................
Salmon ..........................
Coarse fish ..........................
Temperature, mean .................................. 55°.5
    " max. in sun .................. 109'7
    " " shade ................... 64'5
    " min. " shade .............. 48'2
    " on grass .................. 42'2

" accumltd. above 42° day-degs. 13'5
" since 1st January 2512'4

Barometer (mean Mo. ix, 29'97)  in.
    Mo. ix, 3'23 in. on 15 days
Rainfall since 1st January, 29'76 in.
    mean rel. humidity 85 %
Wind, direction, &c. ....................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

    Partridge .............................
    Grouse ............................
    Black-game ........................
    Wildfowl ..........................
    Snipe, &c. .........................
    Hares ............................
    Rabbits ..........................

Salmon ..............................
Coarse fish ........................
Temperature, mean .................... 56° 0
    max. in sun .................. 114.8
    "    "  shade ............... 65.1
    "    " min.  " shade .......... 48.3
    "    " on grass ............... 42.2

" accumltd. above 42° day-degs. 14° 0
since 1st January 2526.4
Barometer (mean, Mo. ix, 29.97) \[Mo. ix, 29.97\] in.
Rainfall since 1st January, 22.87 in. \[22.87\] in.
mean rel. humidity 85 %
Wind, direction, &c. .
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
LOOK FOR Bearded Chestnut M. 280.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ........................................
Grouse ...........................................
Black-game ......................................
Wildfowl .........................................
Snipe, &c. ......................................
Hares ...........................................
Rabbits ........................................
Salmon ...........................................
Coarse fish ....................................

18
Temperature, mean .................................. 55°5
       max. in sun ................................ 116°3
       "      "       shade .................. 65°2
       "      "      "       shade ............ 47°8
       "      " on grass .................... 41°3

       "       accumltd. above 42° day-degs. 13°5
since 1st January 1889

Barometer (mean, Mo. IX., 29°97) in.
       "      "      "      "      " 3°53 in. on 15 days
Rainfall since 1st January 22°99 in.  118 in.
       mean rel. humidity 85°/0

Wind, direction, &c. ................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half grt. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Sphinx Convoluti 237-282, Convolutus Hawk M. Flowers (lar. vii. on small bindweed)

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ........................................
Grouse .......................................... Black-game ..................................
Wildfowl ........................................
Snipe, &c. .................................... Hares .....................................
Rabbits ........................................ Salmon ......................................
Coarse fish ....................................
Temperature, mean..........................55° 3

,, max. in sun..........................112° 5
,, ,, shade ......................65° 0
,, min. ,, shade ......................46° 1
,, ,, on grass ......................40° 7
,, accumltd. above 42° day-degs. 13' 3
,, ,, since 1st January 2553' 2

Barometer (mean, Mo. ix, 29' 97) in.

Rainfall since 1st January, 93' 11 in. 11' 18 in.

Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

[Horse-chestnut fr. ripe, Hoff. Geis.] 127, 126, 100, 283

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Epunda Lichena 259, Feathered Ranunculus M. Sea coast (lar. ix.-vii. on ragwort).

Gonoptera Libatrix 209-279 and 78, The Herald M. See 78

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ........................................
Grouse .........................................
Black-game ...................................
Wildfowl ......................................
Snipe, &c. ....................................
Hares ..........................................
Rabbits .......................................
Temperature, mean .......................... 56°2

" max. in sun .................. 107°0
" "  " shade .................. 64°9
" "  " min. "  shade .................. 46°9
" " on grass .................. 42°0
" accumltd. above 42° day-degs. 14°2
since 1st January 2567°4
Barometer (mean, Mo. ix, 29°97) in.
Mo. ix, 3°53 in. on 15 days
Rainfall (mean rel. humidity 85 %)
since 1st January, 29°83 in. 118 in.
Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossoming.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Diloba Ceruleocapala 208-285, Figure-of-Eight M. Light (lar. v.-vi. on apple) ...
Anchocelis Lunosa 251-272, Lunar Underwing M. Ivy (lar. x.-iv. on grasses) ...

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge .....................................
Grouse ......................................
Black-game ..................................
Wildfowl ...................................
Snipe, &c. ...................................
Hares ......................................
Rabbits ....................................
Salmon ......................................
Coarse fish .................................
Temperature, mean......................56°2

" max. in sun..........................114°5

" " shade ..............................64°8

" min. " shade ...........................49°3

" " on grass .............................42°2

" accumltd. above 42° day-degs. 14°2

" since 1st January 2581°6

Barometer (mean, Mo. ix, 29°97) in.

Rainfall since 1st January, 23°35 in.

Wind, direction, &c. ..........................118 in.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Partridge ........................................

Grouse ...........................................

Black-game ......................................

Wildfowl ........................................

Snipe, &c. ......................................

Hares ...........................................

Rabbits ........................................

Salmon ...........................................

Coarse fish .....................................
Temperature, mean .........................54°6
                   " max. in sun ..................109°1
                   "  " shade .................63'4
                   "  " min.  " shade ..........48°0
                   "  " on grass ...............42°4
                   " accumul'd. above 42° day-degs. 12'6
                   "  " since 1st January 2594'2
Barometer (mean, Mo. ix, 29'97) in.
      Mo. ix, 3°53 in. on 15 days
Rainfall since 1st January, 23'46 in. 118 in.
Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ........................................
Grouse ........................................
Black-game ....................................
Wildfowl ........................................
Snipe, &c. ....................................
Hares ...........................................
Rabbits ........................................
Salmon ...........................................
Coarse fish ....................................
Temperature, mean...................... 55°1

" max. in sun.................. 114'2

" " shade ...................... 64'6

" min. " shade ................... 47'3

" on grass ...................... 42'2

" accumul. above 42° day-degs. 13'1

" since 1st January 2607'3

Barometer (mean, Mo. ix, 29'97) in.
Mo. ix, 3'33 in. on 15 days

Rainfall (since 1st January, 23'58 in.) 118 in.
(mean rel. humidity 85 %)

Wind, direction, &c. ..................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ................................
Grouse ................................
Black-game ...........................
Wildfowl ............................
Snipe, &c. ..........................
Hares ................................
Rabbits .............................
Salmon ..............................
Coarse fish .........................

263-102, Mo. IX., SEPT. 20, 188.
Temperature, mean .................................. 53°4
      , max. in sun .................................. 108°9
      , , shade .................................. 62°3
      , min. , shade .................................. 45°9
      , , on grass .................................. 40°8
      , , accumltd. above 42° day-degs. 11°4
      , , since 1st January 2618°7
Barometer (mean, Mo. ix, 29°97) in.
      Mo. ix, 33 in. on 15 days
Rainfall since 1st January, 23°70 in. in.
      mean rel. humidity 85°% 
Wind, direction, &c. .................................. 118 in.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

  Partridge ...........................................
  Grouse ...........................................
  Black-game ....................................... 
  Wildfowl ...........................................
  Snipe, &c. ........................................
  Hares .............................................
  Rabbits .......................................... 
  Salmon ............................................. 
  Coarse fish ....................................... 

Temperature, mean ...................... 52°.9

"  "  max. in sun ..................... 110°.6

"  "  "  shade ....................... 66°.3

"  "  min,  "  shade .................... 45°.1

"  "  on grass  ....................... 40°.1

"  "  accumul. above 42 day-degs. 10°.9

Barometer (mean, Mo. ix, 29°.97) in.

Rainfall since 1st January, 2629.6 in.

Wind, direction, &c. ........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

LOOK FOR Marvel-du-jour M. 277.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Partridge ..................................

Grouse ..................................

Black-game ..............................

Wildfowl ..............................

Snipe, &c. ......................

Hares ..........................

Rabbits ..........................

Salmon ..........................

Coarse fish ..........................
Temperature, mean..............................52°0

,, max. in sun...............................100'5
,, ,, ,, shade .........................61'3
,, min. ,, shade ......................43'7
,, ,, on grass .........................39'3
,, accumltd. above 42° day-degs. 10'0
,, ,, since 1st January 2639'6
Barometer (mean, Mo. ix, 29'97) in.
Rainfall since 1st January, 18'94 in.
(mean rel. humidity 85 %)
Wind, direction, &c. .......................2
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ....................................
Grouse .....................................
Black-game ................................
Wildfowl ..................................
Snipe, &c. ................................
Hares .....................................
Rabbits ...................................
Salmon ....................................
Coarse fish ..............................
Temperature, mean .......................... 53°4

" max. in sun ...................... 104°0
" " " shade ..................... 61°7
" min. " shade .................. 46°9
" " on grass ..................... 42°2

" accumul'd, above 42° day-degs. 11°4
" " since 1st January 2651°0
Barometer (mean, Mo. xi, 29°97) in.

Rainfall since 1st January, 24°95 in. 118 in.
mean rel. humidity 85 %

Wind, direction, &c. ..................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Xanthia Ferruginea 252-282, Brick M.
Flowers (lar. iv.-vi. on willow) ...........

Plusia Festuccæ 267-, Gold-spot M. Salt marshes (lar. v.-viii. on reeds) .........

Fish. Reptiles.

Birds: migration, &c.

SAND MARTIN last seen 98, 135. .............

Animals: seen, &c.

Partridge ....................................
Grouse ......................................
Black-game ..................................
Wildfowl ...................................
Snipe, &c. ..................................~~~~
Hares .......................................
Rabbits ........................................

Salmon ........................................
Coarse fish ...................................
268-97, Mo. IX., SEPT. 25, 188

Temperature, mean .................................. 53°°°°

,, max. in sun .................................. 107°°°

,, ,, ,, shade ................................. 5°°°°

,, min. ,, shade ................................. 4°°°°

,, on grass ................................. 38°°°

,, accumltd. above 42° day-degs. 1°°

,, since 1st January 2662°°

Barometer (mean, Mo. ix, 29°°°°°) in.

Rainfall  since 1st January, 24°°°°° in. 

Wind, direction, &c. .................................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Honeysuckle second blossoming (G.W.)

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvä &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals : seen, &c.


Partridge ..............................................

Grouse ..............................................

Black-game ...........................................

Wildfowl ..............................................

Snipe, &c. ..............................................

Hares ..............................................

Rabbits ..............................................

Salmon ..............................................

Coarse fish ...........................................
Temperature, mean..........................54°.5

,, max. in sun.........................112.3

,, ,, ,, shade ..................64.1

,, min. ,, shade ..................46.1

,, on grass ..................40.3

,, accumul. above 42° day-degs. 12.5

,, since 1st January 2674.8

Barometer (mean, Mo. ix, 29.97) in.

Rainfall since 1st January, 24.99 in.

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Partridge ........................................

Grouse ...........................................

Black-game ......................................

Wildfowl ........................................

Snipe, &c. ......................................

Hares ...........................................

Rabbits .........................................

Salmon ...........................................

Coarse fish ....................................
Temperature, mean .................. 53°7
   "       max. in sun ................ 102°1
   "       "       shade ............. 63°2
   "       min. "       shade ........... 45°4
   "       "       on grass ............ 39°1
   "       accum. l. above 42° day-degs. 11°7
   "       since 1st January 2686°5
Barometer (mean, Mo. ix, 29°97) in.
   Mo. ix, 33°5 in. on 15 days
Rainfall since 1st January, 24°41 in. 118 in.
   mean rel. humidity 85 %
Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
HEDERA HELIX 255-290, Ivy. Woods, hedges

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Partridge ........................................
Grouse ........................................
Black-game ....................................
Wildfowl ......................................
Snipe, &c. ...................................
Hares ...........................................
Rabbits ........................................
Salmon ...........................................
Coarse fish ....................................
Temperature, mean......................53°9

" max. in sun..................105°1
" " " shade ................62°7
" min. " shade ...............46°8
" " on grass .................40°3

" accumltd. above 42° day degs. 11°9
" " since 1st January 2698:4
Barometer (mean, Mo. ix, 29°97) in.

Mo. ix, 3°53 in. on 15 days
Rainfall since 1st January, 24°53 in.

mean rel. humidity 85 %

Wind, direction, &c. ......................
Plants &c. blossoming: note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Woodlark sings (G.W.) ......................

Animals: seen, &c.

Partridge ..................................
Grouse ..................................
Black-game ................................
Wildfowl ..................................
Snipe, &c. ................................
Hares ....................................
Rabbits ..................................

Salmon ....................................
Coarse fish ..............................
Temperature, mean..........................53°0

'' max. in sun......................105'7
'' , , shade ...............62'1
'' min. , , shade ...............45'9
'' , on grass ...............39'8

, accumulated, above 42° day-degs. 11'0

Barometer (mean, Mo. ix, 29'97) in,
( Mo. ix, 3-53 in. on 15 days
Rainfall ( since 1st January, 24'64 in. ) 118 in.

Wind, direction, &c. 
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Fieldfare arrives (Turdus pilaris) 133 
Woodcock returns (G.W.) 292 

Animals: seen, &c.

Partridge ...................................
Grouse ....................................
Black-game ................................
Wildfowl ..................................
Snipe, &c. ................................
Hares ....................................
Rabbits ...................................
Salmon ....................................
Coarse fish................................
Temperature, mean............52°

max. in sun ...........99'4

,, ,, shade ............60'7

,, min. ,, shade ........44'5

,, on grass ...........40'3

accumulated above 42° day-deg's. x°

since 1st January 2719'4

Barometer (mean, Mo. ix, 29-97) in.

Mo. ix, 353 in. on 15 days

Rainfall: since 1st January, 24'76 in. -118 in.

mean rel. humidity 85%

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Partridge

Grouse

Black-game

Wildfowl

Snipe, &c.

Hares

Rabbits

Salmon

Coarse fish
Temperature, mean...52°9

max. in sun...104°5

,, ,, ,, shade...61°5

,, min. ,, shade...45°6

,, on grass...39°8

,, accumltd. above 42° day-degs. 10°9

,, since 1st January 2730°3

Barometer (mean, Mo. x, 29'94) in.
(Mo. x, 3'59 in. on 27 days)

Rainfall since 1st January, 54'08 in. -116 in.
(mean rel. humidity 90%)

Wind, direction, &c.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr., half ch.); leaves falling.

Insects, Larvae &c. appearing.

LOOK FOR Ealing's Glory M. 285.

Fish. Reptiles.

Birds; migration, &c.

Animals: seen, &c.


Pheasant ..........................
Partridge ..........................
Grouse ..........................
Black-game ..........................
Wildfowl ..........................
Snipe, &c. ..........................
Woodcock ..........................
Hares ..........................
Rabbits ..........................
Salmon ..........................
Coarse fish ..........................
Temperature, mean ........................................ 51°8

   max. in sun ......................... 103°1
   "  "  "  "  shade  ................... 60°8
   "  "  "  "  min.  "  "  shade  ......... 44°0
   "  "  "  "  on grass  .................. 37°9

   "  "  "  "  accumltd. above 42° day-degs. 9°8
   "  "  "  "  since 1st January 274°1

Barometer (mean, Mo. x, 29°94) in.

   Mo. x, 3°59 in. on 17 days
   since 1st January 24°99 in.
   mean rel. humidity 90 %

Rainfall ........................................ 116 in.

Wind, direction, &c. .............................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

LOOK FOR November M. 297.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ........................................
Grouse ............................................
Black-game ......................................
Wildfowl ...........................................
Snipe, &c. ........................................
Woodcock ........................................
Hares .............................................
Rabbits ...........................................

Salmon ...........................................
Coarse fish .....................................
Temperature, mean ..........................5°-1

" max. in sun .........................10°-9

" " shade .........................6°-1

" min. " shade .........................4°-2

" " on grass .........................3°-4

" accumltd. above 4° day-degs. 9°
since 1st January 27°9°2

Barometer (mean, Mo. X, 29°9°) in.
(Mo. X, 3°5° in. on 17 days)

Rainfall (since 1st January, 25°1° in.)
(mean rel. humidity 90%)

Wind, direction, &c. .....................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..................................
Partridge ..................................
Grouse ..................................
Black-game ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ...................................
Rabbits ..................................

Salmon ..................................
Coarse fish .............................
Temperature, mean. .................. 49°8

" max. in sun .................. 96°8
" " shade .................. 58°0
" min. " shade .................. 42°1
" on grass .................. 36°4

, accumltd. above 42° day-degs. 7°8

" since 1st January 2757°

Barometer (mean, Mo. X, 29°94) in.

Rainfall \[
\begin{align*}
\text{Mo. X, } & 3°59 \text{ in. on 17 days} \\
\text{since 1st January, } & 25°23 \text{ in.} \\
\text{mean rel. humidity } & 90 \%
\end{align*}
\]

Wind, direction, &c. .................. 116 in.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

'Trees &c. fruit ripening; beginning of fruit and seed harvests.

'Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Agriopis Aprilina 265-298, Marvel-du-jour M. (lar. vi.-vii. on oak) ..................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..............................
Partridge ..............................
Grouse ..............................
Black-game ..............................
Wildfowl ..............................
Snipe, &c. ..............................
Woodcock ..............................
Hares ..............................
Rabbits ..............................

Salmon ..............................
Coarse fish..............................
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<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>Barometer</th>
<th>Rainfall</th>
<th>Wind</th>
<th>Plants</th>
<th>Fish</th>
<th>Reptiles</th>
<th>Birds</th>
<th>Animals</th>
<th>Shooting, Fishing, Sports</th>
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<td>Oct. 5, 188</td>
<td>49°9</td>
<td>29.4 in.</td>
<td>116 in.</td>
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<td>max. in sun</td>
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<td>min. in shade</td>
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<td>in shade</td>
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<td>accum. above 42° day-deg.</td>
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<td>since 1st January</td>
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<td>Barometer (mean, Mo. X., 29°94)</td>
<td>3°59 in. on 17 days</td>
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<td>Rainfall</td>
<td>since 1st January, 25°34 in.</td>
<td>116 in.</td>
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<td>Plants &amp;c. blossoming</td>
<td>note if surviving, premature, or 2nd blossomings</td>
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<td>Trees &amp;c. fruit ripening</td>
<td>beginning of fruit and seed harvests</td>
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<td>Trees &amp;c. leaves changing</td>
<td>(half gr. half ch.)</td>
<td>leaves falling</td>
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<td>Insects, Larvae &amp;c. appearing</td>
<td>Phlegophora Meticulosa 243-310 and 150</td>
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<td>Angle Shades M. (lar. xi.-iv. on groundsel)</td>
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<td>Snipe, &amp;c.</td>
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<td>Coarse fish</td>
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</table>
Temperature, mean..........................50°3

" max. in sun ................96'1

" " shade ..............59'2

" min. " shade ............42'1

" on grass ..............36'5

,, accumul. above 42° day-degs. 8'3

,, since 1st January 2773'2

Barometer (mean, Mo. x, 29'94) in.

\{ Mo. x, 3'39 in. on 17 days \}

Rainfall, since 1st January, 25'46 in. '116 in.

\{ mean rel. humidity 90 % \}

Wind, direction, &c. .........................

Plants &c. blossoming; note if surviving, premature, or 2nd bussions.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ......................................
Grouse ...........................................
Black-game ...................................
Wildfowl ......................................
Snipe, &c.......................................
Woodcock .....................................
Hares...........................................
Rabbits .......................................  

Salmon ........................................
Coarse fish....................................
Temperature, mean..........................52°

" max. in sun..........................102°

" max. in shade.................60°

" min. in shade.....................45°

" on grass.........................40°

" accumltd. above 42° day-degs. 10°

" since 1st January 2783°

Barometer (mean, Mo. X, 29.94) in.

 Mo. X, 3.59 in. on 17 days

Rainfall: since 1st January, 25.57 in.

 mean rel. humidity 90 %

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Anchocelis Pistacia 257-322, Bearded Chestnut M. (lar. iv.-vi. on buttercup)

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................

Partridge ........................................

Grouse ........................................

Black-game ......................................

Wildfowl ........................................

Snipe, &c........................................

Woodcock........................................

Hares...........................................

Rabbits........................................

Salmon ...........................................

Coarse fish.....................................
Temperature, mean .................................. 50°6

,, max. in sun .......................... 99°0

,, ,, ,, shade ...................... 58°5

,, min. ,, shade ..................... 44°0

,, ,, on grass ...................... 38°3

,, accumul. above 42° day-degs. 8°6

,, ,, since 1st January 2791°9

Barometer (mean, Mo. X, 29°94) in.

Mo. X, 3°59 in. on 17 days

Rainfall .......................... 116 in.

since 1st January, 25°69 in.

(mean rel. humidity 90 %)

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ........................................
Grouse ........................................
Black-game .....................................
Wildfowl ........................................
Snipe, &c........................................
Woodcock .......................................;
Hares ...........................................
Rabbits ........................................

Salmon ..........................................
Coarse fish ....................................
Temperature, mean......................... 49°1
   "  max. in sun .................. 92°9
   "  " shade ...................... 57°2
   "  min. " shade ................ 41°9
   "  " on grass ................... 36°8
   "  acculumtd. above 42° day-degs. 7°1
   "  " since 1st January 2799°0

Barometer (mean, Mo. x, 29°94) in.
   Mo. x, 3°59 in. on 17 days
Rainfall (mean rel. humidity 90 %) in.
   since 1st January, 25°81 in. 116 in.

Wind, direction, &c. ........................
Plants & c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees & c. fruit ripening; beginning of fruit and seed harvests.

Trees & c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvæ & c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant ................................
   Partridge ................................
   Grouse ................................
   Black-game ..............................
   Wildfowl ................................
   Snipe, &c. ................................
   Woodcock ...............................
   Hares ...................................
   Rabbits .................................
   Salmon ..................................
   Coarse fish ..............................
Temperature, mean .................... 49°2
   max. in sun .................... 92'6
   " shade ....................... 57'6
   min. " shade .................. 41'3
   " on grass ................. 36'6
   accumld. above 42° day-degs. 7'5
   " since 1st January 2806'5
Barometer (mean, Mo. x, 29'94)  in.
   Mo. x, 3'59 in. on 17 days
Rainfall since 1st January, 25'92 in.  .116 in.
   mean rel. humidity 90 %
Wind, direction, &c. ..................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
_Ulex europaeus_ 43, Whin premature blossoming

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.
_Horse-chestnut leaves changing, Hoff. Gies.] 126, 100, 127

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

_Pheasant ................................
Partridge ................................
Grouse ................................
Black-game ................................
Wildfowl ................................
Snipe, &c................................
Woodcock ..............................
Hares ...................................
Rabbits ................................
Salmon ..................................
Coarse fish ............................
Temperature, mean..................49°4

,, max. in sun ..............96'3
,, ,, in shade ...........57'9
,, min. ,, shade ...........42'6
,, ,, on grass ...........36'8

,, accumltd. above 42° day-degs. 7'4
,, ,, since 1st January 2813'9

Barometer (mean, Mo. x, 29'94) in.
( Mo. x, 3'59 in. on 17 days }

Rainfall: since 1st January, 26'04 in.
( mean rel. humidity 90% }

Wind, direction, &c. ..........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves changing.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ....................................
Grouse ......................................
Black-game ...................................
Wildfowl ....................................
Snipe, &c. .................................
Woodcock.................................
Hares .......................................
Rabbits ...................................

Salmon ..................................
Coarse fish.................................
Temperature, mean ........................................ 48°6
   "  max. in sun ................................ 100°9
   "  "  shade ......................... 57°8
   "  min. "  shade ..................... 41°1
   "  on grass .............................. 36°0
   "  accumltd. above 42° day-degs. 7°
   "  "  since 1st January 282°9
Barometer (mean, Mo. X, 29°94) ............ in.
   Mo. X, 3°59 in. on 17 days
Rainfall since 1st January, 26°15 in. .... in.
   mean rel. humidity 90 %
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Misaelona Oxyacantha 275-304, Ealing's Glory M. Ivy (lar. vi.-vii. on hawthorn)
Eubolia Cervinata 285-, Mallow M. (lar. vi.-vii. on mallow, hollyhock) ............

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Shooting, Fishing, Sports.
  Pheasant ........................................
  Partridge ....................................
  Grouse ......................................
  Black-game ..................................
  Wildfowl ....................................
  Snipe &c. ...................................
  Woodcock ...................................
  Hares ......................................
  Rabbits ....................................
  Salmon .....................................
  Coarse fish .................................
Temperature, mean: 48° 3

max. in sun: 93° 0

" shade: 56° 1

min. " shade: 40° 5

on grass: 36° 5

accumulated above 42° day-degrees: 6° 9

since 1st January: 28 27° 8

Barometer (mean, Mo. X, 29°). 94 in. (Mo. X, 3° 99 in. on 17 days)

Rainfall since 1st January: 26° 27 in. 

(mean rel. humidity 90°)

Wind, direction, &c.

Plants &c. blossoming: note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.


Insects, Larvae &c. appearing.

Chestnut M. 296

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Shooting, Fishing. Sports.

Pheasant

Partridge

Grouse

Black-game

Wildfowl

Snipe, &c.

Woodcock

Hares

Rabbits

Salmon

Coarse fish
Temperature, mean ................. 48°'4

,, max. in sun ................... 92'1

,, ,, ,, shade ................. 55'9

,, min. ,, shade ................. 41'5

,, on grass ................. 36'4

,, accumltd. above 42° day-degs. 6'6

,, since 1st January 2834'4

Barometer (mean, Mo. X. 29'94) in.
Mo. X. 3'59 in. on 17 days
Rainfall since 1st January, 86'39 in. 116 in.
mean rel. humidity 90 %

Wind, direction, &c. ................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals : seen, &c.

Pheasant ..........................
Partridge ..........................
Grouse ..........................
Black-game ..........................
Wildfowl ..........................
Snipe, &c. ..........................
Woodcock ..........................
Hares ..........................
Rabbits ..........................
Salmon ..........................
Coarse fish ..........................

Temperature, mean .......................... 47°3

,, max. in sun .................. 88°9
,, ,, shade .................. 55°8
,, min. ,, shade ............. 39°1
,, ,, on grass .................. 34°1
,, accum. & above 42° day-deg. 6°5
,, ,, since 1st January 28°40°9
Barometer (mean, Mo. x, 29-94) in.
Rainfall - since 1st January, 26'50 in.
{mean rel. humidity 90 %} 116 in.
Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.
[Beech-tree leaves ch. Hoff. Geis.] 115, 124, 135 ......................

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds; migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ....................................
Grouse ........................................
Black-game ...................................
Wildfowl ......................................
Snipe, &c.....................................
Woodcock......................................
Hares...........................................
Rabbits ......................................
Salmon ........................................
Coarse fish....................................
Temperature, mean..........................47°6

" max. in sun............. 91°9
" " " shade ............. 55°8
" min. " shade ............. 40°6
" " on grass............. 35°4

" accumltd. above 42° day-degs. 6'2
" since 1st January 2847°1
Barometer (mean, Mo. x, 29°94) ....... in.

Rainfall since 1st January, 26°62 in. .116 in.

Wind, direction, &c. ....................... mean rel. humidity 90%/

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Primrose premature blossoming 74 .......

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr.
half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant .........................
Partridge ..........................
Grouse ..........................
Black-game ........................
Wildfowl ........................
Snipe, &c. ......................
Woodcock ......................
Hares ..........................
Woodcock ......................
Rabbits ........................

Salmon ..........................
Coarse fish....................
Temperature, mean..............................47°4
  "  max. in sun ......................92°5
  "  "  shade ......................56°1
  "  min.  "  shade ......................49°0
  "  "  on grass......................35°5
  "  accumul. above 42° day-degs. 6°2 since 1st January 1853°3
Barometer (mean, Mo. x, 47°94) in.
  Mo. x, 3°59 in. on 17 days
Rainfall since 1st January, 26°73 in. 116 in.
(mean rel. humidity 50%)
Wind, direction, &c. ..............................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

  Pheasant ........................................
  Partridge ......................................
  Grouse .........................................
  Black-game ...................................
  Wildfowl ....................................... 
  Snipe, &c. ....................................
  Woodcock .....................................
  Hares .......................................... 
  Rabbits ........................................
  Salmon ........................................
  Coarse fish ....................................
Temperature, mean..................48°1

,, max. in sun ...............88'8

,, ,, ,, shade ................55'9

,, min. ,, shade ...............41'5

,, ,, on grass ...............35'5

,, accumltd. above 42° day degs. 6'3

,, ,, since 1st January 2859'6

Barometer (mean, Mo. X, 29'94) in.

Rainfall - since 1st January, 26'85 in. 116 in.

Wind, direction, &c. .........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ......................................................
Partridge ......................................................
Grouse ..........................................................
Black-game ....................................................
Wildfowl ......................................................
Snipe, &c. .....................................................
Woodcock ......................................................
Hares ..........................................................
Rabbits .......................................................
Temperature, mean.........................48°3
    "    max. in sun ..................80°5
    "    , shade ......................54°3
    "    min , shade ..................43°4
    "    on grass......................38°4

...accumulated above 42° day-degs. 6°3
    " since 1st January 286°9
Barometer (mean, Mo. x, 29°94) in.
    } Mo. x, 3°59 in. on 17 days
Rainfall (since 1st January, 26°97 in. mean rel. humidity 90%)
    ) 116 in.

Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds : migration, &c.

WOODCOCK arrives (Scolopax rusticola), 76

Animals : seen, &c.


Pheasant ........................................
Partridge ......................................
Grouse ........................................
Black-game ...................................
Wildfowl .....................................
Snipe, &c. ....................................
Woodcock .....................................
Hares .........................................
Rabbits ......................................

Salmon ........................................
Coarse fish ...................................

Temperature, mean 46°.6
  , max. in sun 89°.3
  , , , shade 53°.5
  , min. , shade 39°.0
  , on grass 33°.4
  , accumuldt. above 42° day-degs. 5°.8
  , since 1st January 2871°.7
Barometer (mean, Mo. x, 29°.94) in.
  Mo. x. 3°.99 in. on 17 days
Rainfall since 1st January, 27°.08 in. .116 in.
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.
[Oak-tree leaves changing, Hoff. Geis.] 134, 133, 121

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Hen Chaffinches congregate (C.W.).......

Animals: seen, &c.

Pheasant ...........................................
Partridge ...........................................
Grouse ...........................................
Black-game ....................................... Wildfowl ...........................................
Snipe, &c...........................................
Woodcock ........................................
Hares ............................................
Rabbits .........................................
Salmon ...........................................
Coarse fish .....................................
294-71, Mo. X., OCT. 21, 188.

Temperature, mean

Temperature, mean.......... 46°7

max. in sun ............... 80°2

" " " shade ............. 54°0

" " " shade .......... 39°7

" on grass ........... 34°6

" accumltd. above 42° day-degs. 5°6

since 1st January 2877°3

Barometer (mean, Mo. x, 29°94) in.

Mo. x, 3°59 in. on 17 days

Rainfall since 1st January, 27°20 in.

mean rel. humidity 90 %

Wind, direction, &c.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit and seed harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c, appearing.

Insects, Larvae &c, appearing.

LOOK FOR Winter M. 323 and 36.

Fish. Reptiles.

Fish. Reptiles.

Birds: migration, &c.

Birds: migration, &c.

Animals: seen, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ........................................
Grouse ...........................................
Black-game ......................................
Wildfowl ........................................
Snipe, &c........................................
Woodcock.......................................
Hares...........................................
Rabbits.........................................


Pheasant ........................................
Partridge ........................................
Grouse ...........................................
Black-game ......................................
Wildfowl ........................................
Snipe, &c........................................
Woodcock.......................................
Hares...........................................
Rabbits.........................................

Salmon ...........................................
Coarse fish.......................................

Salmon ...........................................
Coarse fish.....................................
Temperature, mean.....................46°9

,, max. in sun ..................82°1
,, ,, ,, shade ..............53°4
,, min. ,, shade .............41°3
,, ,, on grass .............36°3

,, accum. ltd. above 42° day-degs. 5°2
,, ,, since 1st January 2882°5
Barometer (mean, Mo. x, 29°94) in.

{ Mo. x, 3°59 in. on 17 days }
Rainfall : since 1st January, 27°31 in., 116 in.
{ mean rel. humidity 90% }

Wind, direction, &c. ...................
Plants &c. blossoming; note if surviving, premature, or and blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Redwing arrives (Turdus iliacus) 95 ......

Animals: seen, &c.


Pheasant ................................
Partridge ................................
Grouse ................................
Black-game ............................
Wildfowl ..............................
Snipe, &c. ............................
Woodcock .............................
Hares ................................
Rabbits ..............................

Salmon ..............................
Coarse fish ..........................

295-70, Mo. X., OCT. 22, 1888.
Temperature, mean..........................47°2
  " max. in sun ..................88'1
  "  " shade .................53'5
  " min.  " shade ..............40'8
  "  " on grass .............36'7

  " accumltd. above 42° day-degs. 5'7
  "  " since 1st January 2888'2
Barometer (mean, Mo. x, 29'94) in.
  Mo. x, 3'59 in. on 17 days
Rainfall since 1st January, 27'43 in.
  mean rel. humidity 90 %

Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Cerastis Vaccinii 286-309 and 76, Chestnut M. See 76 ......................

Fish. Reptiles.

Birds: migration, &c.
Wood Pigeons come (G.W.) ....................
Royston Crow (Corvus cornix) returns (G.W.) ....................

Animals: seen, &c.

Pheasant .................................
Partridge ................................
Grouse ...................................
Black-game ..............................
Wildfowl .................................
Snipe, &c. ..............................
Woodcock ...............................
Hares ..................................
Rabbits .................................
Salmon .................................
Coarse fish ............................
Temperature, mean..........................46°8
  "    max. in sun ................83°0
  "    " shade ...............54°0
  "    min. " shade ..........39°4
  "    on grass ..........34°4
  "    accumultd. above 42° day-degs. 5°9
  "    since 1st January 2894.1
Barometer (mean Mo. x. 29°64) in.
  Mo. x. 3°59 in. on 17 days
mean rel. humidity 90 %
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
Oporabia Dilutata 275-328, November M.
(lar. v.-vi. on forest trees) ............

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, &c.

Pheasant ....................................
Partridge ...................................
Grouse ...................................
Black-game ................................
Wildfowl ..................................
Snipe, &c................................
Woodcock.................................
Hares......................................
Rabbits ..................................

Salmon ..................................
Coarse fish .............................
Temperature, mean..........................45°8

\[
\begin{align*}
\text{max. in sun} & \quad 87'2 \\
\text{shade} & \quad 53'4 \\
\text{min. shade} & \quad 39'3 \\
\text{on grass} & \quad 33'6 \\
\text{accumulated above 42° day-degs. since 1st January} & \quad 5'0 \\
\text{Barometer (mean, Mo. x, 29'94) in.} & \quad \text{Mo. x, 3'59 in. on 27 days} \\
\text{Rainfall} & \quad \text{since 1st January, 27'66 in.} \\
\text{mean rel. humidity 90%} & \quad 116 \text{ in.}
\end{align*}
\]

Wind, direction, &c. ..............................
Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

| Trees &c. fruit ripening; beginning of fruit, seed, and root harvests. |
| Trees &c. leaves changing (half gr. half ch.); leaves falling. |
| Insects, Larvae &c. appearing. |
| Fish. Reptiles. |
| Birds: migration, &c. |
| Animals: seen, &c. |
| Pheasant ........................................ |
| Partridge ....................................... |
| Grouse .......................................... |
| Black-game ..................................... |
| Wildfowl ........................................ |
| Snipe, &c. ..................................... |
| Woodcock ....................................... |
| Hares .......................................... |
| Rabbits ........................................ |
| Salmon ......................................... |
| Coarse fish .................................... |
Temperature, mean..........................45°2
          " max. in sun ..............84°3
          "     " shade ..............52°8
          " min.     " shade ..........39°6
          "     " on grass ..........33°6
          " accumltd. above 42° day-degs. 4°2
          "     since 1st January 2903°3
Barometer (mean, Mo. x, 29°94)      in.
          Mo. x, 3°59 in. on 17 days
Rainfall : since 1st January, 27°78 in. 116 in.
          mean rel. humidity 90 %
Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvæ &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ......................................
Partridge ....................................
Grouse ......................................
Black-game ..................................
Wildfowl ...................................
Snipe, &c...................................
Woodcock ..................................
Hares........................................
Woodcock ..................................
Rabbits ...................................

Salmon ......................................
Coarse fish.................................
Temperature, mean ..........45°7
  ,, max. in sun ..........82°3
  ,, ,, shade ..........52°2
  ,, min. ,, shade ..........40°0
  ,, on grass ..........34°5

,, accum. above 42° day-deg. 4°5
,, ,, since 1st January 2907°8
Barometer (mean, Mo. x, 29°94) in.
  Mo. x, 23°9 in. on 17 days
Rainfall since 1st January, 27°8 in. 116 in.
  mean rel. humidity 90°0

Wind, direction, &c. ..................
Plants &c. blossoming: note if surviving, premature, or 2nd blossoming.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.
Tortoise begins to bury himself (G. W)....

Birds: migration, &c.

Animals: seen, &c.

Pheasant ......................
Partridge .....................
Grouse ........................
Black-game ....................
Wildfowl ........................
Snipe, &c. ......................
Woodcock ......................
Hares ..........................
Rabbits ........................
Salmon ........................
Coarse fish ........................
Temperature, mean.................44°8
   ,    max. in sun ............84'1
   ,    ,    shade ..........51'9
   ,    min. , shade ..........38'8
   ,    on grass ............33'5
   ,    accumul. above 42° day-degs. 4'1
   ,    since 1st January 2911'9
Barometer (mean, Mo. x, 29'94) in.
   Mo. x, 3'59 in. on 17 days
Rainfall since 1st January, 28'01 in. .116 in.
Wind, direction, &c. ................. 
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant ...................................
   Partridge ..................................
   Grouse ..................................
   Black-game ................................
   Wildfowl ..................................
   Snipe, &c. ................................
   Woodcock.................................
   Hares ....................................
   Rabbits ..................................
   Salmon ..................................
   Coarse fish ..............................
Temperature, mean..........................43°8

,, max. in sun .......................78'1
,, ,,, shade.......................51'7
,, min. ,, shade ............37'1
,, ,, on grass ..............31'0
,, accum. above 42° day-degs. 3'8
,, ,, since 1st January 2015'7
Barometer (mean, Mo. x 29'94) in.
Mo. x, 3'59 in. on 17 days
Rainfall since 1st January, 28'13 in.
mean rel. humidity 90 %

Wind, direction, &c. .......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
\textit{Himera Pennaria} 282 - 316. Feathered Thorn M. \textit{Woods} (lar. v. on oak) ......

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ........................................
Grouse ...........................................
Black-game .....................................
Wildfowl ....................................... Snipe, &c. .....................................
Woodcock ...................................... Hares ........................................
Rabbits ........................................
Salmon ........................................
Coarse fish ....................................
Temperature, mean...........................44°9
   , max. in sun ....................78°8
   , , , shade ....................52°1
   , min , shade ....................38°8
   , , on grass....................33°0
   , accumltd. above 42° day-degs. 4.1
   , , , since 1st January 2919°8
Barometer (mean, Mo. X, 29°94) in. 
   Mo. X, 3°59 in. on 17 days 
Rainfall, since 1st January, 28°24 in. 116 in.
Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ......................................
Grouse .........................................
Black-game .....................................
Wildfowl ......................................
Snipe, &c........................................
Woodcock........................................
Hares...........................................
Rabbits.........................................
Salmon...........................................
Coarse fish......................................
Temperature, mean ..................44°8

" max. in sun ..................77°2

" " shade ..................51°2

" min. " shade ..................39°0

" " on grass ..................33°2

" accum. above 42° day-degs. 4°0

since 1st January 2923°8

Barometer (mean, Mo. X, 29°94) in.

Mo. X, 3°59 in. on 17 days

Rainfall since 1st January, 28°36 in.

(mean rel. humidity 90°0)

Wind, direction, &c. ..................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruit ripening; beginning of fruit, seed, and root harvests.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Rooks return to their nest trees (G.W.) ...

Animals: seen, &c.


Pheasant ..................
Partridge ..................
Grouse ..................
Black-game ..................
Wildfowl ..................
Snipe, &c. ..................
Woodcock ..................
Hares ..................
Rabbits ..................
Salmon ..................
Coarse fish ..................
Temperature, mean..........................44°5

" max. in sun ..................78'5

" " shade .................51'0

" min. in shade ...............39'1

" on grass ...............33'7

" accum. above 42° day-degs. 3'7

" since 1st January 2927'5

Barometer (mean, Mo. xi, 29'93) in.

Mo. xi, 3'2s in. on 16 days

Rainfall since 1st January, 28'47 in. *108 in.

mean rel. humidity 90 %

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ......................................
Grouse .........................................
Black-game ....................................
Wildfowl ......................................
Snipe, &c.....................................
Woodcock .....................................
Hares ..........................................r
Rabbits .......................................}

Salmon ........................................
Coarse fish ...................................
306-59, Mo. XI., NOV. 2, 188

| Temperature, mean | .......... 42° 9 |
| max. in sun | .......... 73° 5 |
| , , , shade | .......... 49° 9 |
| min. , , shade | .......... 36° 1 |
| , , on grass | .......... 30° 7 |
| , , accumltd. above 42° day-degs. , 3' 3 |
| since 1st January 2930° 8 |

Barometer (mean, Mo. xi, 29° 93) in. Mo. xi, 3° 24 in. on 16 days

Rainfall, since 1st January, 28° 37 in. mean rel. humidity 90 %

Wind, direction, &c. note if surviving, premature, or 2nd blossonings.

Plants &c. blossoming; note if surviving, premature, or 2nd blossonings.

Plants, &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant
Partridge
Grouse
Black-game
Wildfowl
Snipe, &c.
Woodcock
Hares
Rabbits
Coarse fish
Temperature, mean..........................43° 1

" max. in sun ..................82° 2

" " " shade ..................51° 9

" min. " shade ..................36° 4

" " on grass ..................30° 7

" accumltd. above 42° day-degs. 3° 4

since 1st January 2934° 2

Barometer (mean, Mo. xi, 29° 93) in.

Rainfall since 1st January, 28° 68 in.

Wind, direction, &c. 

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ................................
Partridge ................................
Grouse ................................
Black-game ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ................................
Rabbits ................................

Coarse fish..............................
Temperature, mean .................. 44°9
   max. in sun .................. 78°0
   " " shade .................. 52°4
   " " min. " shade .................. 37°1
   " " on grass .................. 32°6
   " accumul. above 42° day-degs. 4°9
since 1st January 1939
Barometer (mean, Mo. xi, 29'93) in.
   Mo. xi, 3°24 in. on 16 days
Rainfall since 1st January, 28°79 in.
   mean rel. humidity 90%
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.
Cerastis Spadicea 308-, Dark Chestnut M.
Ivy (lar. v.-vi. on hawthorn) ..................
LOOK FOR December M. 330.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ................................
Partridge ................................
Grouse ................................
Black-game ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ................................
Rabbits ................................
Coarse fish ................................
309-56, Mo., XI., NOV. 5, 188

Temperature, mean......................45°9
   "   max. in sun ..................77°5
   "   "   shade ...............52°4
   "   min. "   shade ............39°7
   "   on grass ...............33°8
   "   accumlatd. above 42° day-degs. 4°8
   "   since 1st January 2943°9
Barometer (mean, Mo. xi, 29'93) in.
   "   Mo. xi, 3°24 in. on 26 days
Rainfall since 1st January, 28°90 in.
   "   mean rel. humidity 90 °
Wind, direction, &c. ..................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant ................................
   Partridge ................................
   Grouse ................................
   Black game ............................
   Wildfowl ..............................
   Snipe, &c. ............................
   Woodcock ............................
   Hares ............................
   Rabbits ............................
   "Coarse fish ........................
310-55, Mo. XI., NOV. 6, 188.

Temperature, mean ......................... 44°6

" max. in sun .................. 76°8

" " shade .................... 51°0

" min. " shade .................. 38°7

" on grass .................... 31°9

" accumul'd. above 42° day-degs. 4°0

" since 1st January 2947°9

Barometer (mean, Mo. xi, 29°93) in.

Mo. xi, 3°24 in. on 16 days

Rainfall since 1st January, 29°01 in. 108 in.

mean rel. humidity 90 %

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ...........................................
Partridge ........................................
Grouse ...........................................
Black-game ....................................... Wildfowl ...........................................
Snipe, &c ........................................ Woodcock ........................................
Hares ............................................
Rabbits ...........................................

Coarse fish .....................................
Temperature, mean .................................. 42°6

'' max. in sun .................. 81°2

'' '' shade .................... 50°1

'' min. '' shade ............... 364.

'' on grass................. 30°9

'' accumltd. above 42° day-degs. 3°

since 1st January 295°9

Barometer (mean, Mo xi, 29°93) in.

Mo xi, 3°24 in. on 16 days

Rainfall since 1st January, 29°11 in. 108 in.

(mean rel. humidity 90%)

Wind, direction, &c. .

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..........................................
Partridge .....................................
Grouse ........................................
Black-game ...................................
Wildfowl ....................................
Snipe, &c. ..................................
Woodcock ...................................
Hares ...........................................
Rabbits ......................................

Coarse fish ...................................
Temperature, mean..........................42°3

,, max. in sun ...................79°2
,, ,, ,, shade ...............50°2
,, min. ,, shade ............35°2
,, ,, on grass..................29°3

,, accumltd. above 42° day-degs. 3'1
,, since 1st January 2954°0
Barometer (mean, Mo. xi, 29'93) in.
Rainfall since 1st January, 29'22 in. 108 in.
Wind, direction, &c. 

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ........................................
Grouse ...........................................
Black-game ......................................
Wildfowl ........................................
Snipe, &c. ......................................
Woodcock ........................................
Hares ...........................................
Rabbits ........................................

Coarse fish ..........................
Temperature, mean..........................42°5
" max. in sun ....................73°3
" " shade ....................49°2
" min. " shade ....................36°2
" " on grass ....................30°5
" accumld. above 42° day-degs. 3°
" " since 1st January 2957°0
Barometer (mean, Mo. xi, 29°93) in.
\{Mo. xi, 3°24 in. on 16 days\}
Rainfall since 1st January, 29°33 in.
\{mean rel. humidity 90%\} .108 in.
Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ......................................
Grouse ........................................
Black-game ...................................
Wildfowl ......................................
Snipe, &c .....................................
Woodcock ....................................
Hares .........................................
Rabbits ......................................
Coarse fish .................................
Temperature, mean.........................41°7

,, max. in sun ....................75'3
,, ,, ,, shade ..................48'2
,, min. ,, shade ...............36'3
,, ,, on grass .................31'2
,, accumltd. above 42° day-degs. 3'9
,, ,, since 1st January 2960'9
Barometer (mean, Mo. xi, 29'93) in.
(Mo. xi, 3'24 in. on 16 days)
Rainfall since 1st January, 29'44 in. '108 in.
(mean rel. humidity 90 %)
Wind, direction, &c. ......................
Plants &c. blossoming; note if sur-
viving, premature, or 2nd blossoms

Plants &c. fruiting; maturity and har-
vesting of root crops.

Trees &c. leaves changing (half gr. half
ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Swift departs 103 (last seen) ..............

Animals: seen, &c.

Pheasant .................................. Partridge .................................. Grouse .................................. Black-game .................................. Wildfowl .................................. Snipe, &c. .................................. Woodcock ................................. Hares ..................................... Hares ..................................... Rabbits .................................. Coarse fish .............................
Temperature, mean..............................40°.1

" max. in sun .....................64°.8

" " " shade .....................46°.3

" min. " shade .....................34°.1

" " on grass .....................29°.3

,, accumltd. above 42° day-degs. 2°.7

since 1st January 2963°6

Barometer (mean, Mo. xi, 29°.93) in.

Mo. xi, 3°.24 in. on 16 days

Rainfall since 1st January, 29°.55 in.

mean rel. humidity, 90 %

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.) ; leaves falling.

Insects, Larvae &c. appearing.

Scopelotoma Satellitia 298 - 342 and 83,
Satellites M. See 83 ......................

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..............................
Partridge ..............................
Grouse ..............................
Black-game ..............................
Wildfowl ..............................
Snipe, &c. ..............................
Woodcock ..............................
Hares ..............................
Rabbits ..............................

Coarse fish ..............................
'316-49, Mo. XI., NOV. 12, 188.

Temperature, mean..................39°6

" max. in sun ...............69'1

" " shade ..................46'6

" min. " shade ..............33'0

" on grass .............28'6

" accumltd. above 42° day-degs. 2'9

since 1st January 2966'5

Barometer (mean, Mo. xi, 29'93) in.

Mo. xi, 3'24 in. on 16 days

Rainfall: since 1st January, 29'65 in. 108 in.

mean rel. humidity 90 %

Wind, direction, &c. ....................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..............................
Partridge .............................
Grouse ..............................
Black-game ..........................
Wildfowl ..........................
Snipe, &c. ..........................
Woodcock ..........................
Hares ..............................
Rabbits .............................

Coarse fish ..........................
Temperature, mean .................. 40° 9

max. in sun .................. 63° 8

,,  ,, shade .................. 47° 4

,, min.  ,, shade .................. 34° 6

,,  ,, on grass .................. 31° 9

,, accumul'd. above 42° day-degs. 3° 4

since 1st January 2969° 9

Barometer (mean, Mo. xi, 29° 93) in.

Mo. xi, 3° 24 in. on 16 days

Rainfall since 1st January, 2976 in. 108 in.

mean rel. humidity 90 %

Wind, direction, &c. ..................

Plants &c. blossoming; note if surviving, premature, or 2nd blossoms.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge ........................................
Grouse ........................................
Black-game ......................................
Wildfowl ........................................
Snipe, &c. ......................................
Woodcock ........................................
Hares ...........................................
Rabbits ........................................

Coarse fish ....................................
Temperature, mean.................. $41^\circ.2$

\[\begin{align*}
\text{max. in sun} & \quad 65^\circ.5 \\
\text{shade} & \quad 48^\circ.6 \\
\text{min. shade} & \quad 35^\circ.9 \\
\text{on grass} & \quad 30^\circ.4 \\
\text{accumulated above} & \quad 42^\circ \text{ day-degs.} \quad 4^\circ \text{I} \\
\text{since 1st January} & \quad 2974^\circ \text{O} \\
\text{Barometer (mean, Mo. xi, 29.93) in.} & \quad 3.24 \text{ in. on 16 days} \\
\text{Rainfall since 1st January, 29.87 in.} & \quad 108 \text{ in.} \\
\text{mean rel. humidity} & \quad 90\% \\
\text{Wind, direction, &c.} & \quad \ldots \\
\text{Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.} & \quad \ldots \\
\text{Plants &c. fruiting; maturity and harvesting of root crops.} & \quad \ldots \\
\text{Trees &c. leaves changing (half gr. half ch.) leaves falling.} & \quad \ldots \\
\text{Insects, Larvae &c. appearing.} & \quad \ldots \\
\text{Fish. Reptiles.} & \quad \ldots \\
\text{Birds: migration, &c.} & \quad \ldots \\
\text{Animals: seen, breeding, &c.} & \quad \ldots \\
\text{Shooting. Fishing. Sports.} & \quad \ldots \\
\text{Pheasant} & \quad \ldots \\
\text{Partridge} & \quad \ldots \\
\text{Grouse} & \quad \ldots \\
\text{Black-game} & \quad \ldots \\
\text{Wildfowl} & \quad \ldots \\
\text{Snipe, &c.} & \quad \ldots \\
\text{Woodcock} & \quad \ldots \\
\text{Hares} & \quad \ldots \\
\text{Rabbits} & \quad \ldots \\
\text{Coarse fish} & \quad \ldots \\
\end{align*}\]
Temperature, mean........................................41°5

" max. in sun........................68°4
" " shade.........................48°4
" min. " shade.....................35°5
" on grass.........................30°9

" accumul. above 42° day-degs. 4°
" since 1st January 2978°

Barometer (mean, Mo. xi, 2993) in.

\[
\text{Mo. xi, 3}^{2}24\text{ in. on 16 days}
\]

Rainfall since 1st January, 2998 in. \*108 in.

Wind, direction, &c. ...........................................

Plants &c. blossoming: note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting: maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. half ch.); leaves falling.

Insects, Larvae &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..............................................
Partridge .........................................
Grouse ...........................................
Black-game ......................................
Wildfowl .........................................
Snipe, &c. ........................................
Woodcock ........................................
Hares...................................................
Rabbits ...........................................

Coarse fish ........................................
Temperature, mean..........................41°4
   ,, max. in sun ..................65°6
   ,, ,, shade ..................47°6
   ,, min. ,, shade ...............35°3
   ,, on grass ...................30°3
   ,, accum.ltd. above 42° day-degs. 3°5
   ,, since 1st January 2981°5
Barometer (mean, Mo. xi, 29°93) in.
   Mo. xi, 3°24 in. on 76 days
Rainfall (since 1st January, 30°09 in.) 108 in.
   mean rel. humidity 90 %
Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing (half gr. - half ch.) ; leaves falling.

Insects, Larvae &c. appearing.
LOOK FOR Dotted Border M. 65.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ..............................
Partridge ............................
Grouse ................................
Black-game ..........................
Wildfowl ............................
Snipe, &c. ............................
Woodcock ............................
Hares .................................
Rabbits ..............................
Coarse fish ...........................
Temperature, mean .................................. 45°.4

'' max. in sun .................................. 68°.0

'' '' shade .................................. 46°.5

'' min. '' shade .................................. 34°.8

'' '' on grass .................................. 30°.1

,, accumul. above 42° day-degs. 2°.8

,, since 1st Jan., 2984.3

Barometer (mean, Mo. xi, 29°.93) in.

Mo. xi, 3°.24 in. on 16 days

Rainfall since 1st January, 26°.73 in. in 108 in.

Wind, direction, &c. ............................... 

Plants &c. blossoming; note if surviving, premature, or 2nd blossoming.

Plants, &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects, &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..............................................

Partridge ............................................

Grouse .............................................

Black-game ........................................

Wildfowl ...........................................

Snipe, &c. ........................................

Woodcock .........................................

Hares .............................................

Rabbits ...........................................

Coarse fish .......................................
Temperature, mean .......................... 40°6

  "  max. in sun  ..................... 64°4

  "  "  "  shade  ............... 47°2

  "  min.  "  "  shade  .......... 34°0

  "  "  on grass  ............ 28°7

  "  accumltd. above 42 day-degs. 3°2

  "  "  since 1st January 2987°5

Barometer (mean, Mo. xi, 29°93)  in.
(Mo. xi, 3°24 in. on 16 days)

Rainfall, since 1st January, 30°30 in. 108 in.
(mean rel. humidity 90 %)

Wind, direction, &c. .......................... 

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge .....................................
Grouse ........................................
Black-game ....................................
Wildfowl ......................................
Snipe &c. .....................................
Woodcock ......................................
Hares ...........................................
Rabbits ........................................

Coarse fish ....................................
Temperature, mean 41°2

max. in sun 72°5

" " shade 47°6

" min. shade 35°6

" on grass 31°8

" accumltd. above 42° day-degs. 3°5

Barometer (mean, Mo. xi, 29'93) in.

Rainfall (Mo. xi, 3°24 in. on 16 days) " in.

Wind, direction, &c. 108 in.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant
Partridge
Grouse
Black-game
Wildfowl
Snipe, &c.
Woodcock
Hares
Rabbits

Coarse fish
Temperature, mean ........................................ 38°7

"   max. in sun ..................... 74°9
"   "   " shade ..................... 45°6
"   min. " shade ..................... 33°6
"   on grass ..................... 28°3

,, accumul. above 42° day-degs. 1°9
,, since 1st January 2992°9

Barometer (mean, Mo. xi, 29°93) in.

\[ \text{Rainfall} \begin{cases} \text{Mo. xi, } 324 \text{ in. on } 16 \text{ days} \\ \text{mean rel. humidity } 50% \end{cases} \] 108 in.

Wind, direction, &c. ..........................................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
House Martin last seen, 81 ......................

Animals: seen, &c.


\begin{itemize}
  \item Pheasant ........................................
  \item Partridge ......................................
  \item Grouse ...........................................
  \item Black-game ....................................
  \item Wildfowl ......................................
  \item Snipe, &c. ....................................
  \item Woodcock .....................................
  \item Hares ..........................................\end{itemize}

\begin{itemize}
  \item Rabbits ........................................
  \item Coarse fish .....................................\end{itemize}
Temperature, mean: 38°.6
   max. in sun: 64°.7
   max. in shade: 44°.9
   min. in shade: 32°.5
   on grass: 26°.9

Accumulated above 42° day-degrees: 1.8

Barometer (mean, Mo. xi, 29'93) in.
   Mo. xi, 3'24 in. on 16 days: 108 in.
   mean rel. humidity: 90%.

Rainfall since 1st January, 30'63 in.

Wind, direction, &c.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.
   Cheimatobia Brumata 294-362 and 36,
   Winter M. see 36

Fish.

Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant
   Partridge
   Grouse
   Black-game
   Wildfowl
   Snipe, &c.
   Hares
   Rabbits
   Coarse fish
Temperature, mean .......................... 39°.9

" max. in sun .......................... 63°.6

" " " shade .......................... 45°.5

" min. " shade .......................... 34°.5

" " on grass .......................... 31°.1

" accumltd. above 42° day-degs. 2:2

since 1st January 2995.9

Barometer (mean, Mo. xi, 29°.93)  in.

Mo. xi, 3°.24 in. on 76 days

Rainfall since 1st January, 30°.73 in. 108 in.

mean rel. humidity 90 %

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant .................................
Partridge ................................
Grouse .................................
Black-game ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ..................................
Rabbits ..................................

Coarse fish ...............................
Temperature, mean ..........................40°7

"  max. in sun ..................70°1

"  "  " shade .................47°2

"  min.  " shade .............35°5

"  " on grass ...........30°0

,, accumltd. above 42° day-degs. 3°2

,, since 1st January 3000°1

Barometer (mean, Mo. xi, 29°03) in.

Rainfall

\[ \text{Mo. xi, 3°24 in. on 16 days} \]

\[ \text{since 1st January, 30°84 in.} \]

\[ \text{mean rel. humidity 90%} \]

Wind, direction, &c. .................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..........................................
Partridge .......................................
Grouse ..........................................Black-game ....................................Wildfowl .........................................Snipe, &c. ........................................Woodcock ..........................................Hares .............................................Rabbits ...........................................

Coarse fish ......................................
328-37, Mo. XI., NOV. 24, 188.

Temperature, mean...41°0

" max. in sun ..........61'2

" " shade ..........46'3

" min. " shade ..........35'6

" on grass ..........30'7

" accumltd. above 42° day-degs. 2'7

since 1st January 3002'8

Barometer (mean, Mo. xi, 29'93) in.

Rainfall: since 1st January, 30'95 in. 108 in,

mean rel. humidity 90 %.

Wind, direction, &c. 

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant
Partridge
Grouse
Black-game
Wildfowl
Snipe, &c.
Woodcock
Hares
Rabbits

Coarse fish.
Temperature, mean..........................40°.3

" max. in sun ................61°.3

" " shade ...............46°.5

" min. " shade.............34°.2

" on grass ..............29°.0

" accumlted. above 42° day-degs. 2.2

" since 1st January 3005°

\[
\text{Barometer (mean, Mo. xi, 29'93) in.} \begin{cases} 
\text{Mo. xi, 3'24 in. on 16 days} \\
\text{mean rel. humidity 90%} 
\end{cases}
\]

Wind, direction, &c. ..........................

Rainfall : since 1st January, 31°06 in. 1.08 in.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant .................................
Partridge ..............................
Grouse ................................
Black-game ...........................
Wildfowl ..............................
Snipe, &c. .............................
Woodcock ............................
Hares ................................
Rabbits ................................

Coarse fish ............................
Temperature, mean.........................41°3
,, max. in sun ....................65'9
,, " " shade ....................46'8
,, min. " shade ....................36'2
,, on grass ....................30'9
,, accumltd. above 42° day-degs. 2'8
,, since 1st January 3007'8
Barometer (mean, Mo. xi, 29'93) in.
Mo. xi, 3'24 in. on 16 days
Rainfall since 1st January, 31'17 in.
(mean rel. humidity 90 %)
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.
Facilocampa Populi 308-347, December M.
Oak trunks (lar. v.-vi. on forest trees) ...

Fish. Reptiles.

Birds : migration, &c.

Animals : seen, &c.

Pheasant ........................................
Partridge ........................................
Grouse ...........................................
Black-game ....................................
Wildfowl .......................................
Snipe, &c.....................................
Woodcock ......................................
Hares............................................
Rabbits ........................................
Coarse fish....................................
Temperature, mean ..................... 40° 5
   "  max. in sun ............... 65° 4
   "   " shade ............. 45° 8
   "  min.   " shade ........... 36° 1
   "   " on grass .......... 30° 0
   "  accumltd. above 42° day-degs. 2° 4
   "   " since 1st January 30° 2
Barometer (mean, Mo. xi, 29° 93) in.
   Mo. xi, 3° 24 in. on 16 days
Rainfall, since 1st January, 31° 87 in.
   mean rel. humidity 90°
Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant ...........................................
   Partridge ........................................
   Grouse ...........................................
   Black-game ......................................
   Wildfowl ........................................
   Snipe, &c. ........................................
   Woodcock ........................................
   Hares ...........................................
   Hares ...........................................
   Rabbits .........................................

Coarse fish ......................................
Temperature, mean .................. 39°7
   ,, max. in sun ............ 62°4
   ,, ,, shade ............. 45°8
   ,, min. ,, shade .......... 35°1
   ,, on grass ............ 29°6
   ,, accum. above 42° day-degs. 2°4
   ,, since 1st January 301°6
Barometer (mean, Mo. xi, 29°93) in.
   (Mo. xi, 3°24 in. on 16 days)
Rainfall since 1st Januaryry, 3°38 in. 108 in.
   mean rel. humidity 90% Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant ................................
   Partridge ................................
   Grouse ................................
   Black-game ............................
   Wildfowl ..............................
   Snipe, &c. ............................
   Woodcock .............................
   Hares ................................
   Rabbits ................................
   Coarse fish ............................
Temperature, mean...

Temperature, mean

max. in sun

max. in shade

min. in shade

on grass

accumulated above 42° day-degrees. 1.6

since 1st January 3014.2

Barometer (mean, Mo. xi, 29.93) in.

Barometer (mean, Mo. xi, 3.24 in. on 16 days

Rainfall since 1st January, 3.48 in. 108 in.

Wind, direction, &c.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant

Partridge

Grouse

Black-game

Wildfowl

Snipe, &c.

Woodcock

Hares

Rabbits

Coarse fish
Temperature, mean................38° 0
        "  max. in sun ..........58° 1
        "  " shade ............42° 9
        "  min. " shade ..........33° 4
        "  " on grass ..........28° 0
        "  accumultd. above 42° day-degs. 0° 6
        "  " since 1st January 30° 14° 8

Barometer (mean, Mo. xi, 20° 23) in.
{Mo. xi, 3° 24 in. on 16 days}
Rainfall since 1st January, 31° 66 in. {mean rel. humidity 90 %} 1° 08 in.

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves changing; leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.
Swallow, last seen, 82, 136

Animals: seen, &c.

Pheasant
Partridge
Grouse
Black-game
Wildfowl
Snipe, &c.
Woodcock
Hares
Rabbits
Coarse fish
Temperature, mean ..................... 38°.1
    " max. in sun .................. 57.4
    " " shade ..................... 42.9
    " min. " shade ................ 33.1
    " on grass ................... 27.5
    " accum. above 42° day-degs. 0.6

Barometer (mean, Mo. xii, 29.96) in.
    " (Mo. xii, 30.03 in. on 17 days)

Rainfall - since 1st January 3015.4
    " (mean rel. humidity 93°/o)

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

    Pheasant ................................
    Partridge ............................
    Grouse ................................
    Black-game ...........................
    Wildfowl ............................
    Snipe, &c. ...........................
    Woodcock ...........................
    Hares ..............................
    Rabbits ............................

Coarse fish ............................
Temperature, mean..........................37°8

,, max. in sun ......................57°9
,, ,, shade ..........................42°8
,, min. ,, shade ......................31°5
,, ,, on grass ......................25°9

,, accumul. above 42° day-degs. 0°5

Barometer (mean Mo. xii, 29°96) in.

Rainfall (since 1st January, 31°79 in.) 0°98 in.

Wind, direction, &c. ........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ....................................
Partridge ...................................
Grouse .....................................
Black-game ................................
Wildfowl ..................................
Snipe, &c. ................................
Woodcock ................................
Hares .....................................
Rabbits ...................................

Coarse fish .................................
337-28, Mo. XII., DEC. 3, 188.

Temperature, mean ..................38°.1

,, max. in sun ...............58°.6
,, ,, ,, shade .............44°.2
,, min. ,, shade ............33°.3
,, ,, on grass ..............28°.4

,, accumltd. above 42° day-degs. 1°.4
,, ,, since 1st January 3017°.3
Barometer (mean, Mo. xii, 29°.96) in.

Mo. xii, 3°.03 in. on 17 days
Rainfall since 1st January, 31°.89 in. 0°98 in.
mean rel. humidity 93°

Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ................................
Partridge ................................
Grouse ...................................
Black-game ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ....................................
Rabbits ..................................
Coarse fish ..............................
338-27, Mo. XII., DEC. 4, 188.

Temperature, mean..................................38°3

'' max. in sun ..................57°6

'' '' shade .................43°5

'' min. '' shade .............33°9

'' on grass .................29°3

'' accumltd. above 42° day-degs. 1°

since 1st January 3018°3.

Barometer (mean, Mo. xii, 29°96) in.

Mo. xii, 3°03 in. on 17 days

Rainfall since 1st January 31°99 in.

mean rel. humidity 93°9

Wind, direction, &c. ...........

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant
Partridge
Grouse
Black-game
Wildfowl
Snipe, &c.
Woodcock
Hares
Hares
Rabbits
Coarse fish
Temperature, mean .................................. \[38^\circ 5\] 
\[\ldots\] 
max. in sun .................................. \[60^\circ 3\] 
\[\ldots\] 
" " shade .................................. \[44^\circ 1\] 
\[\ldots\] 
min. " shade .................................. \[33^\circ 0\] 
\[\ldots\] 
on grass .................................. \[27^\circ 2\] 
\[\ldots\] 
accumulated above \[42^\circ\] day-degs. \[1^\circ 3\] 
\[\ldots\] 
since 1st January \[3019\]" 
\[\ldots\] 
Barometer (mean, Mo. xii, 29'96) in. 
\[\ldots\] 
Rainfall (Mo. xii, 3'03 in. on 17 days) 
\[\ldots\] 
\[\ldots\] 
Wind, direction, &c. .................................. 
\[\ldots\] 
Plants &c. blossoming; note if surviving, premature, or 2nd blossoming. 
\[\ldots\] 
Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ............................................
Partridge ............................................
Grouse ............................................
Black-game ............................................
Wildfowl ............................................
Snipe, &c. ............................................
Woodcock ............................................
Hares ............................................
Rabbits ............................................
Coarse fish ............................................
Temperature, mean................. 40°2

" max. in sun .............. 56°2

" " shade .............. 44°7

" min. " shade .............. 35°3

" on grass .............. 30°1

" accumltd. above 42° day-degs. 1°7

since 1st January 3021';3

Barometer (mean, Mo. xii, 29°96) in.

Mo. xii, 3°03 in. on 17 days

Rainfall since 1st January, 3°79 in. 398 in.

Wind, direction, &c. .....................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ................................
Partridge ................................
Grouse ................................
Black-game ............................
Wildfowl ................................
Snipe, &c. ............................
Woodcock ..............................
Hares ................................
Rabbits ...............................

Coarse fish ............................
Temperature, mean .................. 38° 2

" max. in sun .................. 56' 6

" " shade .................. 42' 9

" min. " shade .................. 34' 2

" on grass .................. 29' 2

" accumltd. above 42° day-degs. 0' 6

" since 1st January 3021' 9

Barometer (mean, Mo. xii, 29' 96) in.

\[
\begin{align*}
\text{Mo. xii, } &3' 03 \text{ in. on 17 days} \\
\text{since 1st January, } &32' 28 \text{ in. mean rel. humidity 93 \%}
\end{align*}
\]

Rainfall: 0' 098 in.

Wind, direction, &c. ..................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. appearing.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ............................................
Partridge ...........................................
Grouse ............................................
Black-game ........................................
Wildfowl .......................................... 
Snipe, &c. ........................................
Woodcock ........................................
Hares .............................................
Rabbits ...........................................

Coarse fish ......................................
Temperature, mean ..........................37°5
                      max. in sun ......................56°0
                      " " shade .........................42°5
                      " " min. " shade .....................32°9
                      " " on grass .........................28°9
                      " accumltd. above 42° day-degs. 0°3
                      " " since 1st January 3022'2
Barometer (mean, Mo. xii, 29'96) in.
                      Mo. xii, 3'03 in. on 17 days
Rainfall, since 1st January, 32'38 in.
                      mean rel. humidity 93 %
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

    Pheasant ........................................
    Partridge .....................................
    Grouse ........................................
    Black-game ...................................
    Wildfowl ......................................
    Snipe, &c....................................
    Woodcock ....................................
    Hares ........................................
    Rabbits ......................................
    Coarse fish .................................
Temperature, mean .................. 34°9
' max. in sun .................. 56'4
'' , shade ................. 41'7
',' min. , shade ............ 29'4
' , on grass .................. 24'6
, accumltd. above 42° day-degs. — since 1st January 3022'2
Barometer (mean, Mo. xii, 29°96) in.
{ Mo. xii, 3°93 in. on 17 days
Rainfall since 1st January, 32°48 in. -°098 in.
{ mean rel. humidity 93 %
Wind, direction, &c. ....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ......................................
Grouse ...........................................
Black-game .....................................
Wildfowl ........................................
Snipe, &c. .....................................
Woodcock ....................................... 
Hares ...........................................
Rabbits .........................................

Coarse fish ....................................
344-21, Mo. XII., DEC. 10, 188.

Temperature, mean .................. 35°9

" max. in sun .......... 51°2
" " shade ........... 41°5
" min. " shade .......... 30°4
" on grass .......... 27°1

" accumltd. above 42° day-degs. —
" since 1st January 3022°2
Barometer (mean, Mo. xii, 29°96) in.

\[
\begin{align*}
\text{Mo. xii, 3°03 in. on 17 days} & \\
\text{Rainfall since 1st January, 3°28 in.} & = 098 in.
\end{align*}
\]

Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Shooting, Fishing, Sports. Grouse and Black-game shooting ends.
Pheasant ........................................
Partridge ........................................
Wildfowl ........................................
Snipe, &c. ........................................
Woodcock ........................................
Hares ...........................................
Rabbits ...........................................
Coarse fish ....................................
Temperature, mean..........................36°3
    ,,, max. in sun ...................55°9
    ,,,  ,, shade ...................41°9
    ,,, min. ,, shade .............30°6
    ,,, on grass.................27°0
    " accumltd. above 42 day-degs.  -- 
    "  ,, since 1st January 3022'2
Barometer (mean, Mo. xii, 29°96) in.
    (Mo. ix, 3°03 in. on 17 days)
Rainfall { since 1st January, 3°68 in. - 0°98 in.
    mean rel. humidity 93 %)
Wind, direction, &c. ....................... 
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.
Early lambs born (G.W.) .....................

Pheasant ...................................
Partridge ..................................
Wildfowl .................................. 
Snipe, &c. ................................
Woodcock.................................
Hares .....................................
Rabbits ....................................
Coarse fish .................................
346-19, Mo. XII., DEC. 12, 188

Temperature, mean..................37°7

" max. in sun ..............54°6

" " shade ............43°1

" min. " shade ...........32°1

" on grass .............27°9

" accumltd. above 42° day-degs. 0°7

since 1st January 3022'9

Barometer (mean, Mo. xii, 29°96) in.

Mo. xii, 3°03 in. on 17 days

Rainfall

since 1st January, 32°77 in.

mean rel. humidity 93 %

0°98 in.

Wind, direction, &c. ......................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Moles throw up mole-hills (G.W.) ...........


Pheasant .........................
Partridge ....................... Wildfowl .........................
Snipe, &c. .................. Woodcock .....................
Hares ........................ Rabbits .....................
Coarse fish .....................
Temperature, mean ...................39°4
    "    max. in sun ...............55°0
    "    "    shade .............44'6
    "    min. "    shade ..........33'8
    "    "    on grass ..........29'0
    "    accumltd. above 42° day-degs. 1'6
    "    "    since 1st January 3024'5
Barometer (mean, Mo. xii, 29'96) in.
    Mo. xii, 3'03 in. on 17 days
Rainfall since 1st January, 32'87 in.
    mean rel. humidity 93 %
Wind, direction, &c. ..........................
Plants &c. blossoming; note if sur-
viving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and har
vesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

    Pheasant ..........................................
    Partridge ......................................
    Wildfowl ......................................
    Snipe, &c.....................................
    Woodcock....................................
    Hares........................................
    Hares........................................
    Rabbits .....................................
    Coarse fish.................................
348-17, Mo. XII., DEC. 14, 188.

Temperature, mean.................... 38°8

,, max. in sun ............... 52°8

,, ,, shade .................. 44°2

,, min. ,, shade ............ 33°1

,, on grass ................. 28°4

,, accumltd. above 42° day-degs. 1°4 since 1st January 3025°9

Barometer (mean, Mo. xii, 29°96) in.
(Mo. xii, 3°03 in. on 17 days)

Rainfall since 1st January, 32°97 in. mean rel. humidity 93%
(0°98 in.)

Wind, direction, &c. .........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting; maturity and harvesting of root crops.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ................................
Partridge ................................
Wildfowl ..............................
Snipe, &c. ............................
Woodcock .............................
Hares ................................
Rabbits ..............................
Coarse fish ..........................
Temperature, mean..................39°.8

,, max. in sun ..................50°.2
,, ,, ,, shade ..................44°.9
,, min. ,, shade ..................33°.9
,, ,, on grass ..................30°.0

,, accumul'd. above 42° day-degs. 1°.8
,, ,, since 1st January 3027°.7
Barometer (mean, Mo. xii, 29°.96) in.
Mo. xii, 3°.03 in. on 17 days
Rainfall : since 1st January, 33°.07 in. 098 in.
mean rel. humidity 93 %

Wind, direction, &c. ..................Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.
Cheiranthus cheiri. Wallflower premature bloss. (G.W.) 95
Bellis perennis. Com. Daisy premature bloss. (G.W.) 39

Plants &c. fruiting.

Trees &c. leaves falling.

Insects, seen, &c.

Fish. Reptiles.

Birds: migration, song, &c.

Animals: seen, &c.

Pheasant ................................
Partridge ................................
Wildfowl ................................
Snipe, &c................................
Woodcock................................
Hares....................................
Rabbits ................................
Coarse fish.............................
Temperature, mean..................39°8
  "  max. in sun .............52°0
  "  "  shade...............44°7
  "  min. "  shade..........35°2
  "  "  on grass..........30°4
  "  accumul. above 42° day-degs. 1°7
  "  "  since 1st January 3029°4
Barometer (mean, Mo. xii, 29°96) in.

Rainfall
Mo. xii, 3°03 in. on 17 days
since 1st January, 33°17 in.
mean rel. humidity 93 %

Wind, direction, &c. ................................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling &c.

Insects &c. seen, &c.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

  Pheasant .....................................
  Partridge ....................................
  Wildfowl ....................................
  Snipe, &c......................................
  Woodcock ....................................
  Hares...........................................
  Hares...........................................
  Rabbits ......................................
  Coarse fish.................................
Temperature, mean.......................... 39°·1
   max. in sun .................. 55°·4
   ,, shade .................. 44°·1
   min. ,, shade ............. 34°·7
   ,, on grass .......... 30°·2
   ,, accumltd. above 42° day-degs. 1·3
since 1st January 3030°·7
Barometer (mean, Mo. xii, 29·96) in.
   Mo. xii, 30·03 in. on 17 days
Rainfall { since 1st January, 33·26 in. } 0·98 in.
   mean rel. humidity 93 %
Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

   Pheasant ................................
   Partridge ................................
   Wildfowl ................................
   Snipe, &c. ..............................
   Woodcock ...............................
   Hares ...................................
   Rabbits .................................

Coarse fish.................................
Temperature, mean....................... 40°5
  " max. in sun .................. 55°3
  " " shade ..................... 45°6
  " min. " shade ................ 35°5
  " " on grass .................. 30°5
  " accumld. above 42° day-degs. 2°2

Barometer (mean, Mo. xii, 29°96) in.
  Mo. xii, 3°03 in. on 17 days

Rainfall since 1st January, 33°36 in.
  mean rel. humidity 93 °/

Wind, direction, &c. .....................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling &c.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

  Pheasant
  Partridge
  Wildfowl
  Snipe, &c.
  Woodcock
  Hares
  Rabbits
  Coarse fish.
Temperature, mean....................39°6
  max. in sun ..................61°8
  "  " shade .................44°3
  min. " shade ..............35°6
  "  " on grass ..............31°0
  "  " accumltd. above 42° day-degs. 1°4
  "  " since 1st January 3°034°3
Barometer (mean, Mo. xii, 29°96) in.
  Mo. xii, 3°93 in. on 17 days
Rainfall since 1st January, 33°46 in.
  mean rel. humidity 93 %
Wind, direction, &c. ................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling &c.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

  Pheasant ................................
  Partridge ................................
  Wildfowl ................................
  Snipe, &c. ................................
  Woodcock ................................
  Hares ...................................
  Rabbits ................................
  Coarse fish ............................

24
Temperature, mean..........................37°7

"     max. in sun ..........56'2

"     "     shade ..........44'3

"     min. "     shade ..........32'6

"     "     on grass ..........29'3

"     accumltd. above 42° day-degs. 1'4

" since 1st January 303°7
Barometer (mean, Mo. xii, 29'96) in.

Rainfall (Mo. xii, 3'93 in. on 17 days)

since 1st January, 33'56 in. mean rel. humidity 93 %

Wind, direction, &c. ......................
Plants &c. blossoming; note if surviving, premature, or 2nd blossemings.
LOOK FOR Christmas Rose or Black Hellebore 359

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ......................................
Wildfowl ......................................
Snipe, &c. ...................................
Woodcock .....................................
Hares .........................................
Rabbits .......................................}
Temperature, mean .................. 38°5

   max. in sun .................. 61°5

   , , shade .................. 44°4

   , , min. , shade .................. 33°6

   , , on grass .................. 28°6

" accumltd. above 42° day-degs.  i 'i4

" since 1st January 3037°

Barometer (mean, Mo. xii, 29'96) in.

(Mo. xii, 3'03 in. on 17 days)

Rainfall (since 1st January, 33'66 in.

(mean rel. humidity 95 °)

Wind, direction, &c. ..................

Plants &c. blossoming: note if surviving, premature, or 2nd blossoms.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant

Partridge

Wildfowl

Snipe, &c.

Woodcock

Hares

Rabbits

Coarse fish.
356-9, Mo. XII., DEC. 22, 188.

Temperature, mean.......................38°4

" max. in sun ..................59°2

" " shade .....................43°5

" min. " shade ..................34°6

" on grass ....................29°4

" accum.ltd. above 42° day-degs. 1°9

since 1st January 303°1

Barometer (mean, Mo. xii, 29°96) in.

(39°3 in. on 17 days)

Rainfall since 1st January, 33°75 in. 098 in.

(mean rel. humidity 93°%)

Wind, direction, &c. ...................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects, &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................
Partridge .....................................
Wildfowl ......................................
Snipe, &c. ...................................
Woodcock ....................................
Hares ..........................................Rabbits ........................................

Coarse fish ..................................
Temperature, mean .................. 36°0
"  max. in sun .............. 60°3
"  "  shade .......... 42°5
"  min.  " shade ... 32°2
"  on grass .............. 27°3
"  accumltd. above 42° day-degs. 0°3
"  since 1st January 3038°4
Barometer (mean, Mo. xii, 29°96) in.
Mo. xii, 3°03 in. on 17 days
Rainfall since 1st January, 33°85 in. 008 in.
mean rel. humidity 93 %
Wind, direction, &c. ..................
Plants & c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants & c. fruiting.

Trees & c. leaves falling.

Insects & c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ................................
Partridge ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ...................................
Rabbits ................................
Coarse fish ............................
Temperature, mean..................36°6
      max. in sun ................57°9
      ,, shade .................42°2
      min. ,, shade ..........31°8
      on grass.............27°1
      accum. above 42° day-degs. —
      since 1st January 3038.4
Barometer (mean, Mo. xii, 29°96) in.
      (Mo. xii, 3°03 in. on 17 days)
Rainfall since 1st January, 33°95 in. -008 in.
      (mean rel. humidity 93 %)
Wind, direction, &c. .........................
Plants &c. blossoming: note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

  Pheasant..............................
  Partridge...........................
  Wildfowl...........................
  Snipe, &c..........................
  Woodcock.........................
  Hares.............................
  Hares.............................
  Rabbits.........................
  Coarse fish.....................
Temperature, mean..........................37° 1

,, max. in sun ..........................56° 4

,, ,, shade ..................42° 0

,, min. ,, shade ..................33° 0

,, on grass ..................28° 7

,, accumul. above 42° day-degs. — since 1st January 3038° 4

Barometer (mean, Mo. xii, 29° 96) in.

Mo. xii, 3° 03 in. on 17 days

Rainfall - since 1st January, 34° 05 in. . . . . . . . . . . . . . . . . . . . 0° 98 in.

Wind, direction, &c. ..........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

*Helleborus niger* 354°; Christmas Rose.

Cultivated in gardens ..................

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ..................................
Partridge ..................................
Wildfowl ..................................
Snipe, &c. ..................................
Woodcock ..................................
Hares ..................................
Rabbits ..................................

Coarse fish .................................
Temperature, mean..........................37°6
   "  max. in sun ......................56°9
   "  "  shade ......................42'1
   "  min. "  shade ..................34'0
   "  on grass ....................30'2
   "  accumultd. above 42° day-degs. —
   "  "  since 1st January 3038'4
Barometer (mean, Mo. xii, 29°96)  in.
   (Mo. xii, 3°93 in. on 17 days)
Rainfall (since 1st January, 34°15 in.)  "098 in.
   (mean rel. humidity 93%)
Wind, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant                                  .........................
Partridge                                .........................
Wildfowl                                 .........................
Snipe, &c.                                .........................
Woodcock                                 .........................
Hares                                    .........................
Hares                                    .........................
Rabbits                                  .........................
Coarse fish                              .........................
Temperature, mean..........................38°.4
  "  max. in sun ..................52'1
  "  "  " shade ...............43'2
  "  min. " shade ..........33'6
  "  " on grass ............30'9
  "  accum. above 42° day-degs. 0'7
  "  " since 1st January 3039'1
Barometer (mean, Mo. xii, 29'96) in.
  "  " Mo. xii, 303 in. on 17 days
Rainfall - since 1st January, 34'24 in. 0'98 in.
  "  " mean rel. humidity 93%.
Wind, direction, &c. ..................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ....................................
Wildfowl ....................................
Snipe, &c. ...................................
Woodcock ....................................
Hares ........................................
Rabbits .....................................

Coarse fish.................................
362-3, Mo. XII., DEC. 28, 1888

Temperature, mean..........................39°8
"' max. in sun ......................53°2
"" max. in shade .................43°8
"" min. in shade ...............36°1
"" on grass ....................31°7
"' accumul. above 42° day-degs. 1°1
"' since 1st January 3040°2
Barometer (mean, Mo. xii, 29°96) .......in.
Ro. xii, 3°03 in. on 17 days
Rainfall since 1st January, 34°34 in. -998 in.
(mean rel. humidity 93 %)

Wind, direction, &c. ........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c, fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

    Pheasant ................................
    Partridge .............................
    Wildfowl ................................
    Snipe, &c. ............................
    Woodcock ............................
    Hares ................................
    Rabbits ............................

Coarse fish.............................
Temperature, mean .................. 40°.0
   ,, max. in sun .................. 58.4
   ,, ,, shade .................. 44.8
   ,, min. ,, shade .................. 36.1
   ,, on grass .................. 32.1
   ,, accumltd. above 42° day-degs. 1.7
   ,, since 1st January, 3041.9
Barometer (mean, Mo. xii, 29.96) in.
   Mo. xii, 3.03 in. on 17 days
Rainfall - since 1st January, 33.44 in. 0.098 in.
   mean rel. humidity 93 %
Wind, direction, &c.
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Trees &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ...................................
Partridge ................................
Wildfowl ................................
Snipe, &c. ................................
Woodcock ................................
Hares ...................................
Rabbits ................................
Coarse fish ............................
Temperature, mean .......................... 38°3

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```

max. in sun .................. 56°4
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```
```

', shade .............. 43°0
```

```
```

min. ', shade ............. 33°7
```

```
```

', on grass ............. 28°7
```

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```

', accumltd. above 42° day-degs. 0°7
```

```
```

since 1st January 3042°6

Barometer (mean, Mo. xii, 29°96) in.

```
```

Mo. xii, 3°03 in. on 17 days

Rainfall since 1st January, 34°54 in.

mean rel. humidity 93 %

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Wind, direction, &c. .........................

Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.


Pheasant ........................................

Partridge ......................................

Wildfowl ......................................

Snipe, &c. ....................................

Woodcock......................................

Hares.........................................

Rabbits......................................

Coarse fish ..................................
Temperature, mean..........................38°1

,, max. in sun .....................56'4
,, ,, ,, shade .................43'0
,, min. ,, shade .............33'7
,, ,, on grass ..............28'8
,, accumul. above 42° day-degs. 0'6
,, ,, since 1st January 3043'2
Barometer (mean Mo. xii, 29'96) in.
(Mo. vii, 3'03 in. on 17 days)
Rainfall, since 1st January, 34'64 in. 0'98 in.
(mean rel. humidity 93%)
Winds, direction, &c. .........................
Plants &c. blossoming; note if surviving, premature, or 2nd blossomings.

Plants &c. fruiting.

Trees &c. leaves falling.

Insects &c. seen.

Fish. Reptiles.

Birds: migration, &c.

Animals: seen, &c.

Pheasant ........................................
Partridge ......................................
Wildfowl ......................................
Snipe, &c. ....................................
Woodcock ....................................
Hares ...........................................
Rabbits ......................................
Coarse fish ..................................
APPENDIX.

NOTES ON THE "GAME LAWS."

1. The right to the game, rabbits, woodcocks, snipes, &c., upon any land, belongs to the tenant or occupier of the soil, unless he has made an agreement by which he forgoes that right. But if, after so doing, he breaks his agreement, either by killing the game himself, or by giving permission to others to do so, he becomes liable to a fine of 2l., and 1l. additional for each head of game killed; and any permission which he has given will not shield from prosecution the person who has acted under it.

2. Every occupier of land (whether he be owner or tenant) has the right to kill hares and rabbits on the land in his occupation, notwithstanding that the shooting may be reserved or let to any other person; and the occupier cannot divest himself of this concurrent right, even though he wishes to let the shooting in its entirety, for any agreement to do so is rendered void by the terms of the Act.

3. The license or certificate to kill game differs in cost according to the length of time for which it is taken out. Thus, if taken out on or after the 1st of August, to expire on the 31st of July of the following year, the cost of the certificate, which is printed on red paper, is 3l.; if taken out as above, but to expire on the 31st of October, the cost will be 2l., and the certificate green; if taken out on or after the 1st of November, and to expire on the 31st of July, the certificate will be yellow, and the cost also 2l. A game license for fourteen days costs 1l., and the colour is white.

4. The penalty for trespass in the day time (which begins one hour before sunrise and ends one hour after sunset) in pursuit of game, rabbits, &c., is 2l. and costs. Any person who shall take or destroy game or rabbits by night (which begins one hour after sunrise and ends one hour before sunrise) is liable to three months' imprisonment for the first offence, and six months for the second, and to find sureties for twelve months in the first case, and two years in the next; and if he offends a third time he becomes liable to be sentenced to penal servitude.

For Note on Wild Birds Protection Acts 1880, 1882, see page 60 (March 1st).

NOTES ON THE "FRESHWATER FISHERIES ACT, 1878."

1. It is illegal:—to fish for, catch, or attempt to catch or kill, or buy or sell, trout or char during the close season between 2nd October and 1st February following, or during any close season which by By-law may be substituted for the same; or to have in possession any instrument for the purpose of catching or killing trout or char; or to have in possession, or buy or sell, any trout or char roe.

2. To fish for, catch, or attempt to catch or kill, or buy or sell, any "freshwater fish" between 15th March and 15th June, both inclusive. "Freshwater fish" include all freshwater non-migratory fish other than pollan, trout, and char. This prohibition does not apply to owners of special preserves; to persons angling in private waters with the leave of the owner, or in public waters with the leave of the Local Conservators, or in districts exempted by a Local Board with the approval of the Secretary of State; nor to persons taking freshwater fish for scientific purposes.

3. To use any dynamite or other explosive substance for catching or destroying fish.

Note.—The counties of Norfolk and Suffolk are placed under a separate Act.

For the provisions of the Salmon Fisheries Acts see Walpole's "Manual of the Law of Salmon Fisheries in England and Wales."
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