

The Average Times of First Flowering for Somerset Plants

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FOR many years a Wild Flower Diary was kept, and in this the first dates on which the plants were seen in flower were given. This was done, partly for phenological reasons, but largely for the encouragement of those accompanying me in my field work. There was no intention of calculating the average time of first flowering during a number of years for each plant, but, later on, this was done for a particular reason. It was noticed that the flowering of the plants belonging to the families usually considered to be evolutionary early was conspicuous during the early parts of the year, whilst those belonging to the families considered to be of later evolution formed the major portion of the plants flowering in the later months. For example, the families of Ranunculaceæ and Cruciferae had a greater number of species flowering in April and May, whereas in August and September the flowering species of Umbelliferae and Compositae were predominant. This seemed worthy of further attention and some methods of obtaining more definite comparisons of the flowering times of the various families were considered. For one of these methods the data in my Wild Flower Diary was used. The average time of first flowering during ten or more years, of most of our Somerset plants, was calculated. Then for each family the average time was obtained. For example, for the family Ranunculaceæ the average times of first flowering for 13 plants were added together and the total divided by 13. In a similar way the average times of first flowering were obtained for many other families. The results obtained were embodied in a paper on the possible evolutionary significance of flowering time and this was read to the Linnean Society on 4 January 1934.

The times given may be taken as fairly accurate for Somersetshire, though most of the field work was done in the Taunton area. For West Somerset the times are quite reliable, but as

those given for plants which only occur in East Somerset were obtained during excursions I cannot vouch for their absolute accuracy, as first flowering may have occurred previously to such excursions. Their reliability is, however, increased by the fact that flowering times were noted for more than ten years, and the calculations of the average times were made from the earlier dates. This was not necessary for their earlier purpose, so that the average times used for phylogenetic work do not always correspond to those given in this list. The Wild Flower Diary of the late W. D. Miller, who was the Hon. Secretary of our Botanical Society for about twenty years, was also consulted.

Some discrimination has been exercised in respect of some early flowering. For example, a few flowers of the greater stitchwort (our Somerset 'snapjacks') appear some time before general flowering begins. This is not unusual after a relatively mild winter, and it was found that this precocious flowering was on shoots which had not died down during the winter. A number of other similar instances can be given. In many cases the altitudes at which the records were made must be considered. Most plants flower much earlier at lower altitudes under similar conditions than at higher ones. In the Taunton district the oak in which the flowers are stalked is common at low levels, whilst the sessile-fruited oak only occurs on the hills. The flowers of the former usually appear a fortnight earlier than the latter. In the Roadwater woods the two oaks occur near one another and both appear in flower about the same time. Similar discrimination has been necessary in regard to other plants.

In addition to the average time of first flowering information has been given regarding the duration and optimum period of flowering. Some discrimination has been necessary for these and accelerated or retarded flowering has largely been ignored.

Column I gives the botanical names. These usually follow those given in the last London Catalogue, but as this dates from 1925 some emendations recommended in the *Journal of Ecology* (Vol. 33, No. 2; July 1946) have been adopted. For some genera which have been segregated into many species an aggregate name (indicated by 'agg.') has been used.

Column II gives the common name in general use.

Column III gives the average time of first flowering (date and month). In a few cases brackets are used. These indicate that the average times given may not be quite accurate as they depend on insufficient information owing to the observations being too few or for other reasons.

Column IV gives the usual duration of flowering in Somerset, the months (indicated by numbers) in which flowering is at its optimum being in thick type. The first month and the last month given for the duration of flowering does not necessarily mean that flowering occurs all through the respective months. Often the first flowering is in the latter part of the first month given and in the first part of the later month. Some plants as chickweed, daisy, dandelion, shepherd's purse, red dead-nettle, groundsel, Buxbaum's speedwell, annual poa, etc., can usually be found in flower throughout the year. Occasionally two periods of flowering occur. The thale cress, besides its early flowering period, may be found flowering much later if weather conditions are suitable. Dogwood often has a later period and many other instances of abnormal flowering could be given, whilst buttercups may be practically flowerless when July is hot and dry.

I.	II.	III.	IV.
<i>Clematis vitalba</i>	Traveller's joy	17/7	7-8-9
<i>Anemone nemorosa</i>	Wood anemone	3/4	3-4-5
<i>Ranunculus peltatus</i> ¹	Water crowfoot	26/4	4-5-7-9
<i>R. lenormandi</i>	Mud c.	30/4	4-5-8-9
<i>R. hederaceus</i>	Ivy-leaved c.	1/5	4-5-8-9
<i>R. sceleratus</i>	Celery-leaved c.	17/5	5-6-8-9
<i>R. flammula</i>	Lesser spearwort	6/6	5-6-8-9
<i>R. auricomus</i>	Wood crowfoot	9/4	3-4-5-6
<i>R. acris</i>	Acrid buttercup	21/4	4-6-8-10
<i>R. repens</i>	Creeping b.	17/4	4-5-8-10
<i>R. bulbosus</i>	Bulbous b.	13/4	4-5-6-10
<i>R. parviflorus</i>	Small-flowered b.	18/5	5-6-7
<i>R. arvensis</i>	Corn crowfoot	5/6	5-6-7
<i>R. ficaria</i>	Lesser celandine	10/2	2-3-4-5
<i>Caltha palustris</i>	Marsh marigold	25/3	3-4-5-6
<i>Helleborus viridis</i>	Green hellebore	25/2	3-4
<i>Aquilegia vulgaris</i>	Monkshood	24/5	5-6-7
<i>Nymphæa alba</i>	White water-lily	22/6	6-8

¹ *R. trichophyllus*, *R. heterophyllus* and *R. pseudofluitans* are similar in regard to flowering periods to *R. peltatus*.

I.	II.	III.	IV.
<i>Nuphar lutea</i>	Yellow w.	12/6	6-8
<i>Papaver rhœas</i>	Common poppy	27/5	6-8
<i>P. dubium</i>	Pale-red p.	20/6	6-8
<i>Glaucium luteum</i>	Yellow horned p.	16/6	6-8-9
<i>Chelidonium majus</i>	Greater celandine	1/5	5-7-9
<i>Corydalis lutea</i>	Yellow fumitory	3/5	5-6
<i>C. claviculata</i>	Climbing corydalis	2/6	5-7-9
<i>Fumaria capreolata</i>	„ fumitory	6/5	6-7-9
<i>F. officinalis</i> (agg.)	Fumitory	30/4	5-6-8-10
<i>Cheiranthus cheiri</i>	Wallflower	1/4	3-4-6-7
<i>Nasturtium officinale</i>	Watercress	19/5	5-6-7-8
<i>N. palustre</i>	Yellow w.	14/6	6-7-8
<i>Barbarea vulgaris</i>	Yellow rocket	29/4	4-5-6
<i>Arabis hirsuta</i>	Hairy rockcress	12/6	5-6-8
<i>Cardamine pratensis</i>	Cuckoo-flower	6/4	4-5-6
<i>C. hirsuta</i>	Hairy bittercress	22/2	2-3-9-11
<i>C. flexuosa</i>	Flexuose b.	3/3	2-4-7-10
<i>Alyssum maritimum</i>	Sweet alyssum	5/5	4-6-9-10
<i>Draba muralis</i>	Wall rockcress	8/3	3-4-5
<i>Cochlearia armoracia</i>	Horse radish	5/5	5-6-7-8
<i>C. officinalis</i>	Scurvy grass	27/4	4-5-7-8
<i>Erophila verna</i>	Vernal whitlow-g.	1/3	2-3-4-5
<i>Hesperis matronalis</i>	Dame's violet	12/5	5-6-7
<i>Sisymbrium thalianum</i> ²	Thale cress	22/3	3-4-5
<i>S. officinale</i>	Hedge mustard	2/4	4-5-8-11
<i>S. alliaria</i>	Garlic m.	3/4	4-5-6
<i>Erysimum cheiranthiodes</i>	Treacle m.	16/5	5-6-8-10
<i>Brassica nigra</i>	Black m.	4/6	5-6-8-9
<i>Sinapis alba</i>	White m.	12/5	5-6-9-11
<i>S. arvensis</i>	Charlock	4/5	5-6-8-9
<i>Diptotaxis muralis</i>	Wall rocket	6/6	5-6-8-10
<i>D. tenuifolia</i>	„ „	7/5	5-6-8-10
<i>Capsella bursapastoris</i>	Shepherd's purse	23/1	1-3-10-12
<i>Coronopus squamatus</i>	Swine's cress	29/5	5-6-8-10
<i>C. didymus</i>	Wart c.	15/5	4-5-8-9
<i>Lepidium campestre</i>	Field pepperwort	28/5	5-6-8-9
<i>L. smithii</i>	Smith's f.p.	31/5	5-6-7-9
<i>L. draba</i>	Hoary p.	24/5	5-6-8-9
<i>Thlaspi arvense</i>	Pennycress	11/5	5-6-7-10
<i>Cakile maritima</i>	Sea rocket	19/6	6-7-9
<i>Raphanus raphanistrum</i>	Wild radish	15/6	7-8-9
<i>Reseda luteola</i>	Dyer's weed	3/6	5-6-7-9
<i>Helianthemum polifolium</i> ³	White rock-rose	(8/6)	4-5-7-9

² In some years has a late second flowering time.

³ *H. polifolium* occurs only near Weston in the county and its average first flowering is probably earlier than given, as I have on early visits to its habitat seen it flowering in the latter part of April.

I.	II.	III.	IV.
<i>Helianthemum chamæcistus</i>	Yellow r.	3/6	5-6-7-9
<i>Viola odorata</i>	Sweet violet	8/3	1-3-4-5
<i>V. hirta</i>	Hairy v.	2/4	3-4-5
<i>V. palustris</i>	Marsh v.	24/4	3-4-5-6
<i>V. silvestris</i>	Early wood v.	8/3	2-3-4-5
<i>V. riviniana</i>	Wood v.	31/3	3-5-6-8
<i>V. canina</i>	Dog v.	3/5	4-5-6-8
<i>V. tricolor</i> (agg.)	Wild pansy	18/5	4-6-8-9
<i>Polygala vulgaris</i>	Common milkwort	12/5	5-6-7-8
<i>P. serpyllacea</i>	Heath m.	27/5	5-6-7-9
<i>Dianthus cæsius</i>	Cheddar pink	31/5	5-6-7-8
<i>Saponaria officinalis</i>	Soapwort	26/8	8-9
<i>Silene cucubalus</i>	Bladder campion	30/5	5-6-7-8
<i>S. maritima</i>	Sea c.	25/4	4-5-8-9
<i>S. conica</i>	Conical s. c.	19/5	5-6-7
<i>Lychnis alba</i>	White campion	20/5	5-6-8-10
<i>L. dioica</i>	Red c.	6/4	4-6-8-11
<i>L. flos-flosculi</i>	Ragged Robin	1/6	5-6-7-8
<i>Cerastium vulgatum</i>	Mouse-ear chickweed	2/4	2-5-9-12
<i>C. tetrandrum</i>	Sea m. c.	15/4	4-5-7
<i>C. semidecandrum</i>	Small m. c.	23/4	3-4-5-6
<i>C. viscosum</i>	Broad-leaved m. c.	2/4	3-5-9-11
<i>Mæchia erecta</i>	Erect pearlwort	20/4	4-5-6
<i>Stellaria media</i>	Chickweed	29/1	1-3-9-12
<i>S. neglecta</i>	Ten-stamened c.	22/3	3-4-5
<i>S. uliginosa</i>	Bog stitchwort	17/5	5-6-7
<i>S. holostea</i>	Greater s.	17/3	3-4-5-6
<i>S. graminea</i>	Lesser s.	9/6	5-6-7-8
<i>S. aquatica</i>	Water s.	14/6	6-7-9-10
<i>Arenaria trinervia</i>	Three-nerved sandwort	19/3	3-5-6-7
<i>A. serpyllifolia</i>	Thyme-leaved s.	21/4	4-5-9-10
<i>A. peploides</i>	Sea purslane	22/5	5-6-8-10
<i>Sagina procumbens</i>	Common pearlwort	6/5	4-5-7-9
<i>S. apetala</i>	Annual p.	15/5	5-7-9
<i>S. ciliata</i>	Ciliated p.	3/6	6-7-8-10
<i>S. subulata</i>	Heath p.	5/6	5-6-8-9
<i>Spergula arvensis</i>	Corn spurrey	29/6	6-7-9-10
<i>Spergularia rubra</i>	Red sandwort	1/7	5-7-8-9
<i>S. salina</i> (agg.)	Sea spurrey	9/6	6-7-9
<i>Montia fontana</i>	Water blinks	21/4	3-5-8-10
<i>Tamarix gallica</i>	Tamarisk	8/7	7-8-9-10
<i>Hypericum calycinum</i>	Rose of Sharon	29/6	6-7-8
<i>H. androsæmum</i>	Tutsan	26/6	6-7-8
<i>H. perforatum</i>	St. John-wort	28/6	6-7-8-10
<i>H. tetrapterum</i>	Square-stalked S.	4/7	6-7-8-9

I.	II.	III.	IV.
<i>H. humifusum</i>	Creeping S.	6/7	6-7-8-9
<i>H. pulchrum</i>	Upright S.	4/7	6-7-8-9
<i>H. hirsutum</i>	Hairy S.	24/6	6-7-8
<i>H. elodes</i>	Bog S.	10/7	7-8-9
<i>Lavatera arborea</i>	Tree mallow	14/6	6-7-8-9
<i>Malva moschata</i>	Musk m.	2/7	6-7-9-10
<i>M. sylvestris</i>	Common m.	7/6	5-6-9-10
<i>M. neglecta</i>	Dwarf m.	6/6	6-7-8-9
<i>Tilia vulgaris</i>	Lime	25/6	6-7
<i>Radiola linoides</i>	Allseed	3/7	6-7-9-10
<i>Linum catharticum</i>	Purging flax	3/6	6-7-8-10
<i>L. bienne</i>	Narrow-leaved f.	8/7	7-8-9
<i>Geranium molle</i>	Soft cranesbill	20/4	4-5-9-11
<i>G. versicolor</i>	Striped c.	20/5	5-7-8
<i>G. pratense</i>	Meadow c.	25/6	6-7-8
<i>G. pyrenaicum</i>	Mountain c.	30/5	5-6-8-11
<i>G. dissectum</i>	Jagged-leaved c.	15/5	5-6-7-8
<i>G. columbinum</i>	Long-stalked c.	2/6	5-6-7-8
<i>G. lucidum</i>	Shining c.	13/4	4-5-6
<i>G. robertianum</i>	Herb Robert	16/4	3-5-8-11
<i>Erodium cicutarium</i>	Storksbill	7/5	5-6-7-9
<i>E. moschatum</i>	Musky s.	5/4	4-5-7-8
<i>E. maritimum</i>	Sea s.	5/5	5-6-8-9
<i>Oxalis acetosella</i>	Wood sorrel	7/4	4-5-7
<i>Ilex aquifolium</i>	Holly	5/5	4-5-6
<i>Euonymus europæus</i>	Spindle tree	20/5	5-6-7
<i>Frangula alnus</i>	Berried alder	11/6	5-6-8
<i>Acer campestre</i>	Maple	8/5	4-5-6
<i>A. pseudoplatanus</i>	Sycamore	2/5	4-5
<i>Aesculus hippocastaneum</i>	Horse chestnut	26/4	4-5
<i>Genista anglica</i>	Petty whin	6/5	5-6-7
<i>G. tinctoria</i>	Dyer's greenweed	23/6	6-7-8-9
<i>Ulex europæus</i>	Common gorse	8/1	1-4-8-9-12
<i>U. galii</i>	Western g.	6/8	5-6-8
<i>Sarothamnus scoparius</i>	Broom	12/4	4-5-6-7
<i>Ononis repens</i>	Rest-harrow	5/7	6-7-8-9
<i>O. spinosa</i>	Spiny r.	4/7	6-7-8-9
<i>Trigonella ornithopoides</i>	Fenugreek	2/6	5-6-7
<i>Medicago sativa</i>	Lucerne	26/6	6-7-8
<i>M. lupulina</i>	Black medick	30/4	4-6-8-11
<i>M. arabica</i>	Spotted m.	4/5	5-6-7
<i>Melilotus altissima</i>	Melilot	21/6	6-7-8-9
<i>M. officinalis (arvensis)</i>	"	26/6	6-7-8
<i>M. alba</i>	White m.	12/7	6-7-8-9
<i>Trifolium pratense</i>	Red clover	4/5	5-6-9-11
<i>T. medium</i>	Zigzag c.	22/6	6-7-8-9
<i>T. subterraneum</i>	Subterranean c.	14/5	5-6-7

I.	II.	III.	IV.
<i>Trifolium incarnatum</i>	Crimson trefoil	23/5	5-6-7
<i>T. arvense</i>	Hare's-foot t.	17/6	5-6-8-9
<i>T. striatum</i>	Soft knotted t.	6/6	5-6-8-9
<i>T. scabrum</i>	Rough t.	3/6	5-6-7
<i>T. suffocatum</i>	Suffocated t.	16/5	4-5-6-7
<i>T. hybridum</i>	Alsike clover	8/6	5-6-7-8
<i>T. repens</i>	Dutch c.	21/5	5-6-8-10
<i>T. fragiferum</i>	Strawberry c.	19/7	7-8-9
<i>T. procumbens</i>	Hop. trefoil	8/6	5-6-7-9
<i>T. dubium</i>	Small yellow t.	2/5	4-5-8-9
<i>T. filiforme</i>	Least yellow t.	26/5	5-6-7-8
<i>Anthyllis vulneraria</i>	Kidney vetch	13/6	5-6-7-9
<i>Lotus corniculatus</i>	Bird's-foot trefoil	12/5	5-6-8-10
<i>L. uliginosus</i>	Marsh b.t.	28/6	5-6-8-9
<i>Hippocrepis comosa</i>	Bird's foot	16/5	5-6-7-8
<i>Vicia hirsuta</i>	Hairy tare	17/5	5-6-8-10
<i>V. tetrasperma</i>	Four-seeded t.	24/5	5-6-7-8
<i>V. gracilis</i>	Slender t.	27/5	5-6-7
<i>V. cracca</i>	Tufted vetch	3/6	6-7-8
<i>V. sepium</i>	Bush v.	6/4	4-6-8-10
<i>V. sativa</i>	Vetches	4/5	5-6-7-8
<i>V. angustifolia</i>	Narrow-leaved v.	2/5	5-6-7-8
<i>V. lathyroides</i>	Spring v.	30/4	4-5-6
<i>V. bithynica</i>	Bithynian v.	9/6	6-7
<i>Lathyrus nissolia</i>	Grass-leaved v.	6/6	6-7
<i>L. pratensis</i>	Meadow v.	29/5	5-6-8-9
<i>L. sylvestris</i>	Wild pea	14/6	6-7-8-9
<i>L. montanus</i>	Tuberous bitter vetch	18/4	4-5-8
<i>L. latifolius</i>	Everlasting pea	5/6	6-7-8-9
<i>Prunus spinosa</i> (agg.)	Sloe	28/3	3-4-5
<i>P. avium</i>	Gean	12/4	3-4-5
<i>P. laurocerasus</i>	Cherry laurel	29/3	3-4-5
<i>Filipendula ulmaria</i>	Meadowsweet	31/5	5-6-8-10
<i>Rubus idæus</i>	Raspberry	6/6	6-7
<i>R. fruticosus</i> (agg.)	Blackberry	21/6	6-7-8-10
<i>R. cæsius</i>	Dewberry	5/5	5-6-8-11
<i>Geum urbanum</i>	Wood avens	8/4	4-5-8-10
<i>G. rivale</i>	Water a.	1/5	4-5-8-9
<i>Fragaria vesca</i>	Wild strawberry	18/3	3-5-6-7
<i>Potentilla sterilis</i>	Barren s.	14/2	2-3-4-6
<i>P. erecta</i>	Tormentil	7/5	5-6-8-10
<i>P. procumbens</i>	Creeping t.	5/5	5-6-8-10
<i>P. reptans</i>	Creeping cinquefoil	18/5	5-6-9-11
<i>P. anserina</i>	Silver weed	19/5	5-6-8-9
<i>Comarum palustre</i>	Marsh cinquefoil	9/6	5-7-8
<i>Alchemilla arvensis</i>	Parsley piert	8/4	4-5-6-8

I.	II.	III.	IV.
<i>A. vulgaris</i> (agg.)	Lady's mantle	18/5	5-6-8-10
<i>Agrimonia eupatoria</i>	Agrimony	10/6	6-7-8-9
<i>A. odorata</i>	Fragrant a.	21/6	6-7-8
<i>Poterium sanguisorba</i>	Salad burnet	18/5	5-6-7
<i>Sanguisorba officinalis</i>	Great b.	10/8	7-8-9
<i>Rosa arvensis</i>	Trailing rose	7/6	6-7
<i>R. stylosa</i>		16/6	6-7-8
<i>R. spinosissima</i>	Burnet r.	3/6	5-6-7
<i>R. canina</i>	Dog r.	22/5	5-6-7-9
<i>R. dumetorum</i>		6/6	6-7-8
<i>R. obtusifolia</i>		20/6	6-7-8
<i>R. tomentosa</i> (agg.)	Downy r.	23/6	6-7-8
<i>R. rubiginosa</i>	Sweet brier	5/7	6-7-8
<i>R. micrantha</i>	" "	29/6	6-7-8
<i>Sorbus aucuparia</i>	Mountain ash	29/5	5-6
<i>S. aria</i> (agg.)	White beam	6/6	5-6-7
<i>S. torminalis</i>	Wild service	30/5	5-6
<i>Pyrus malus</i>	Crab	4/5	4-5-6
<i>Crataegus monogyna</i>	Hawthorn	21/4	4-5-6
<i>Cotoneaster microphylla</i>	Cotoneaster	5/5	4-5-6
<i>Saxifraga granulata</i>	Meadow saxifrage	19/5	5-6
<i>S. tridactylites</i>	Three-fingered s.	8/4	3-4-5
<i>Chrysosplenium oppositifolium</i>	Golden s.	10/3	2-3-5-7
<i>C. alternifolium</i>	Alternate-leaved g.s.	22/3	2-3-4-5
<i>Ribes grossularia</i>	Gooseberry	17/3	3-4-5
<i>R. rubrum</i> (agg.)	Red currant	12/4	4-5
<i>Cotyledon umbiliciveneris</i>	Wall pennywort	17/5	5-6-7-8
<i>Sedum album</i>	White stonecrop	17/6	6-7-8-9
<i>S. anglicum</i>	English s.	14/6	5-6-7-8
<i>S. acre</i>	Biting s.	9/6	6-7-9
<i>S. rupestre</i>	Yellow s.	24/6	6-7-8
<i>S. reflexum</i>	Reflexed s.	30/6	6-7-8-9
<i>Drosera rotundifolia</i>	Sundew	3/7	6-7-8-9
<i>D. anglica</i>	Long-leaved s.	6/7	6-7-8
<i>D. longifolia</i>	Lesser l.s.	4/7	6-7-8
<i>Callitriche stagnalis</i>	Water starwort	13/5	4-5-7-9
<i>C. obtusangula</i>	" "	28/4	4-5-7-9
<i>C. truncata</i>	Autumnal w.s.	27/6	6-7-9
<i>Peplis portula</i>	Water purslane	16/7	7-8
<i>Lythrum salicaria</i>	Purple loosestrife	6/7	7-9
<i>Epilobium hirsutum</i>	Hairy willow-herb	3/7	6-7-8-9
<i>E. angustifolium</i>	Rosebay w.	8/7	7-8-9
<i>E. parviflorum</i>	Small-flowered w.	1/7	6-7-8
<i>E. montanum</i>	Broad-leaved w.	10/6	6-7-9-10

I.	II.	III.	IV.
<i>Epilobium roseum</i>	Pale flowered w.	10/7	7-8-9
<i>E. tetragonum</i>	Square-stalked w.	3/7	7-8-9
<i>E. obscurum</i>	" " "	7/7	7-8-9
<i>E. palustre</i>	Narrow-leaved w.	22/7	7-8-9
<i>Oenothera odorata</i>	Evening primrose	2/7	7-8-9
<i>O. biennis</i>	" "	16/7	7-8-9
<i>Circæa lutetiana</i>	Enchanter's nightshade	27/6	6-7-8-9
<i>Bryonia dioica</i>	White bryony	24/6	5-7-8-9
<i>Hydrocotyle vulgaris</i>	Marsh pennywort	9/7	7-8
<i>Eryngium maritimum</i>	Sea holly	14/7	7-8-9
<i>Sanicula europæa</i>	Wood sanicle	7/5	5-6
<i>Conium maculatum</i>	Hemlock	26/5	5-6-7-8
<i>Smyrniûm olusatrum</i>	Alexanders	14/4	4-5-6
<i>Apium graveolens</i>	Wild celery	8/7	6-7-8-9
<i>A. nodiflorum</i>	Marshwort	25/6	6-7-9-10
<i>A. inundatum</i>	Least m.	3/7	7-8
<i>Carum petroselinum</i>	Parsley	17/6	6-7-8
<i>Sison amomum</i>	Stone p.	18/7	7-8-9-11
<i>Sium erectum</i>	Water parsnip	5/7	7-8
<i>Aegopodium podagraria</i>	Goutweed	28/5	5-6-7-8
<i>Pimpinella saxifraga</i>	Burnet saxifrage	22/7	7-8-9-10
<i>Conopodium majus</i>	Earthnut	6/5	5-6-7
<i>Chærophyllum temulum</i>	Rough chervil	17/5	5-6-7
<i>Scandix pecten-veneris</i>	Shepherd's needle	7/5	5-6-9
<i>Anthriscus scandicina</i>	Beaked parsley	7/5	5-6-7
<i>A. sylvestris</i>	Hedge b.p.	9/3	3-4-6-11
<i>Fœniculum vulgare</i>	Fennel	20/6	5-7-8-9
<i>Crithmum maritimum</i>	Sea samphire	(11/7)	5-7-8-9
<i>Oenanthe fistulosa</i>	Water dropwort	13/7	6-7-8-9
<i>O. pimpinelloides</i>	Meadow d.	8/6	5-6-7-8
<i>O. lachenalii</i>	Parsley d.	8/7	7-8-9
<i>O. crocata</i>	Hemlock d.	17/5	5-6-7-9
<i>O. aquatica</i>	Fine-leaved d.	14/6	5-6-8
<i>Aethusa cynapium</i>	Fool's parsley	17/6	4-7-8
<i>Silaus flavescens</i>	Pepper saxifrage	9/7	7-8-9
<i>Angelica sylvestris</i>	Angelica	18/7	7-8-9-10
<i>Peucedanum palustre</i>	Milk parsley	28/7	7-8-9-10
<i>P. sativum</i>	Parsnip	19/6	5-7-8-9
<i>Heracleum sphondylium</i>	Cow-parsnip	9/4	4-6-8-11
<i>Daucus carota</i>	Wild carrot	13/6	6-7-8-10
<i>Torilis anthriscus</i>	Hedge parsley	25/6	5-7-8-11
<i>T. arvensis</i>	Spreading h.p.	15/6	6-7-8-9
<i>T. nodosa</i>	Knotted h.p.	16/6	6-7-8
<i>Hedera helix</i>	Ivy	23/9	9-10-11
<i>Cornus sanguinea</i>	Dogwood	8/6	5-6-7-(9)
<i>Adoxa moschatellina</i>	Town clock	24/3	2-3-4-5

I.	II.	III.	IV.
<i>Sambucus nigra</i>	Elder	20/5	5-6
<i>S. ebulus</i>	Dwarf e.	13/7	7-8
<i>Symphoricarpos albus</i>	Snowberry	7/6	5-6-7
<i>Viburnum opulus</i>	Guelder rose	26/5	5-6-7
<i>V. lantana</i>	Wayfaring tree	24/4	4-5-6
<i>Lonicera periclymenum</i>	Honeysuckle	4/6	5-6-7-9
<i>Rubia peregrina</i>	Madder	21/6	6-7-8
<i>Galium cruciata</i>	Crosswort	29/5	4-5-6-9
<i>G. verum</i>	Yellow bedstraw	25/6	6-7-9
<i>G. mollugo</i>	Great hedge b.	25/6	6-7-9
<i>G. saxatile</i>	Heath b.	9/6	6-7-8
<i>G. palustre</i>	Water b.	10/6	6-7-9
<i>G. uliginosum</i>	Rough w.b.	(3/8)	7-8
<i>G. aparine</i>	Cleavers	5/5	4-5-6-9
<i>G. vaillantii</i>	"	19/6	6-7
<i>G. tricornis</i>	Corn c.	9/6	5-6-7-9
<i>Asperula odorata</i>	Woodruff	14/4	4-5-6
<i>A. cynanchica</i>	Squinancy-wort	8/7	6-7-8
<i>Sherardia arvensis</i>	Field madder	9/5	4-5-7-10
<i>Valeriana officianlis</i> (including <i>sambucifolia</i>)	Great valerian	23/6	6-7-9
<i>V. dioica</i>	Small marsh v.	9/5	5-6
<i>Kentranthus ruber</i>	Red v.	14/5	5-6-8-10
<i>Valerianella oltoria</i>	Lamb's lettuce	4/5	4-5-6-8
<i>V. carinata</i>	" "	5/5	4-5-6
<i>V. dentata</i>	" "	(27/5)	5-6-7-9
<i>Dipsacus sylvestris</i>	Teasel	21/7	7-8-9
<i>D. pilosus</i>	Small t.	5/8	7-8-9
<i>Scabiosa arvensis</i>	Field scabious	25/6	6-7-8-10
<i>S. succisa</i>	Devil's-bit s.	5/8	7-8-9-10
<i>S. columbaria</i>	Small s.	1/7	7-8-9
<i>Eupatorium cannabinum</i>	Hemp agrimony	16/7	7-8-9
<i>Solidago virgaurea</i>	Golden rod	27/7	7-8-9-10
<i>Bellis perennis</i>	Daisy	3/1	1-2-9-12
<i>Aster salignus</i>	Michaelmas d.	31/8	8-9-11
<i>A. tripolium</i>	Sea aster	24/7	7-8-9-11
<i>A. linosyris</i>	Goldilocks	3/9	8-9-10
<i>Erigeron acris</i>	Blue fleabane	6/8	7-8-9
<i>E. canadense</i>	Canadian f.	(17/8)	7-8-9
<i>Filago germanica</i>	Upright cudweed	1/7	6-7-8-9
<i>Gnaphalium uliginosum</i>	Marsh c.	9/7	6-7-8-10
<i>Inula helenium</i>	Elecampane	13/7	7-8
<i>I. squarrosa</i>	Ploughman's spikenard	2/8	7-8-9-10
<i>Pulicaris dysenterica</i>	Fleabane	21/7	7-8-9-10
<i>Bidens tripartita</i>	Burr marigold	28/8	8-9-10
<i>B. cernua</i>	Nodding b.m.	25/8	8-9-10

I.	II.	III.	IV.
<i>Achillea millefolium</i>	Yarrow	14/6	6-7-9-11
<i>A. ptarmica</i>	Sneezewort	19/7	7-8-9
<i>Anthemis cotula</i>	Stinking mayweed	10/7	6-7-8-9
<i>A. arvensis</i>	Corn camomile	26/6	6-7-8-10
<i>A. nobilis</i>	Camomile	19/7	7-9
<i>Chrysanthemum segetum</i>	Corn margiold	24/7	7-8-9-10
<i>C. leucanthemum</i>	Marguerite	26/5	4-6-7-9
<i>C. parthenium</i>	Feverfew	3/6	5-6-7
<i>Matricaria inodora</i>	Scentless mayweed	19/6	5-7-8-10
<i>M. chamomilla</i>	Wild camomile	26/5	5-6-8-11
<i>M. suaveolens</i>	Rayless c.	11/6	5-7-8-9
<i>Tanacetum vulgare</i>	Tansy	29/7	7-8-9-10
<i>Artemisia absinthium</i>	Wormwood	17/8	7-8-9
<i>A. vulgaris</i>	Mugwort	9/8	8-9-10
<i>A. maritima</i>	Sea m.	(24/8)	7-8-9
<i>Tussilago farfara</i>	Coltsfoot	1/3	3-4-5
<i>Petasites ovatus</i>	Butterbur	7/3	2-3-4-5
<i>P. fragrans</i>	Fragrant b.	9/1	1-2, 12
<i>Doronicum pardalianches</i>	Leopard's bane	22/5	5-6-7
<i>Senecio vulgaris</i>	Groundsel	3/1	1-3-10-12
<i>S. sylvaticus</i>	Mountain g.	25/6	6-7-8-9
<i>S. squalidus</i>	Wall ragwort	21/4	4-5-8-12
<i>S. erucifolius</i>	Hoary r.	22/6	6-7-8-9
<i>S. jacobæa</i>	Common r.	4/7	7-8-9-11
<i>S. aquaticus</i>	Water r.	22/6	6-7-8-9
<i>S. sarracenicus</i>	Broad-leaved r.	(16/8)	7-8
<i>Carlina vulgaris</i>	Carline thistle	6/8	7-8-9
<i>Arctium majus</i>	Greater burdock	1/8	7-8-9
<i>A. minus</i>	Common b.	20/7	7-8-9
<i>A. vulgare</i>	Wood b.	(27/7)	7-8-9
<i>Carduus nutans</i>	Musk thistle	1/6	5-6-8-11
<i>C. tenuiflorus</i>	Sea welted t.	26/5	5-6-7
<i>C. crispus</i>	Welled t.	31/5	5-6-8-9
<i>Cirsium vulgare</i>	Spear t.	26/6	6-7-9-11
<i>C. eriophorum</i>	Woolly-headed t.	(29/7)	7-8-9
<i>C. palustre</i>	Marsh t.	9/6	6-7-8-9
<i>C. dissectum</i>	Meadow t.	12/6	5-6-7-8
<i>C. acaule</i>	Stemless t.	17/7	7-8-9
<i>C. arvense</i>	Creeping t.	21/6	6-7-8-9
<i>Silybum marianum</i>	Milk t.	30/6	(5)-6-7-8
<i>Serratula tinctoria</i>	Sawwort	26/7	7-8-9
<i>Centaurea nigra</i>	Black knapweed	13/6	6-7-8-10
<i>C. scabiosa</i>	Great k.	12/7	6-7-8-9
<i>Cichorium intybus</i>	Chicory	20/7	7-8-9
<i>Lapsana communis</i>	Nipplewort	24/5	5-6-8-10
<i>Picris echioides</i>	Ox-tongue	9/7	6-7-9-11
<i>P. hieracioides</i>	Hawkweed o.	16/7	7-8-9-10

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I.	II.	III.	IV.
<i>Crepis capillaris</i>	Common hawks-beard	21/6	6-7-9-11
<i>C. taraxacifolia</i>	Dandelion h.	7/5	5-6-7
<i>Hieracium murorum</i> (agg.)	Common hawk-weed	8/7	6-7-8-10
<i>H. lachenalii</i>		17/7	6-7-8-9
<i>H. umbellatum</i>	Umbellate h.	9/8	7-8-9
<i>H. aurantiacum</i>	Orange h.	3/7	6-7-9-10
<i>H. pilosella</i>	Mouse-ear h.	23/5	5-6-8-11
<i>Hypochaeris radicata</i>	Cat's ear	16/5	4-6-7-8
<i>Leontodon leysseri</i>	Hairy hawkbit	10/6	5-6-7-8
<i>L. hispidus</i>	Rough h.	29/5	5-6-7-9
<i>L. autumnalis</i>	Autumnal h.	15/7	7-8-9-11
<i>Taraxacum vulgare</i>	Dandelion	5/1	1-5-9-12
<i>T. lævigatum</i>	Crimson-fruited d.	25/4	4-5-6-7
<i>T. palustre</i>	Marsh d.	5/4	4-5-8-9
<i>Lactuca virosa</i>	Wild lettuce	(24/7)	7-8-9
<i>L. muralis</i>	Wall l.	1/7	6-7-8-10
<i>Sonchus oleraceus</i>	Sow thistle	24/4	4-6-9-11
<i>S. asper</i>	Rough s.t.	23/5	5-6-8-9
<i>S. arvensis</i>	Corn s.t.	10/7	6-7-8-9
<i>Tragopogon pratense</i>	Goat's-beard	14/6	5-6-7
<i>T. minus</i>	" "	26/5	5-6-7-8
<i>Jasione montana</i>	Sheep's scabious	5/7	6-7-8-10
<i>Campanula latifolia</i>	Giant bluebell	(17/8)	7-8-9
<i>C. rotundifolia</i>	Harebell	23/7	7-8-10
<i>C. glomerata</i>	Clustered bluebell	25/7	7-8-9
<i>C. trachelium</i>	Nettle-leaved b.	1/7	6-7-8-10
<i>Wahlenbergia hederacea</i>	Ivy-leaved b.	22/7	7-8-9
<i>Specularia hybrida</i>	Venus' looking-glass	29/6	6-7-9
<i>Vaccinium myrtillus</i>	Whortleberry	7/4	3-4-6-8
<i>Oxycoccus quadriflorus</i>	Cranberry	(15/6)	6-7-8
<i>Arbutus unedo</i>	Strawberry tree	20/9	8-9-10
<i>Calluna vulgaris</i>	Ling	24/7	7-8-9-10
<i>Erica tetralix</i>	Cross-leaved heath	23/6	6-7-8-9
<i>E. cinerea</i>	Fine-leaved h.	14/6	6-7-8-9
<i>Monotropa hypopithys</i>	Bird's nest	(23/7)	7-8
<i>Limonium vulgare</i>	Sea lavender	17/7	7-8-9
<i>L. binervosum</i>	" "	(17/7)	7-8-9
<i>A. maritima</i>	Sea pink	12/5	4-5-6-8
<i>Hottonia palustris</i>	Water violet	12/5	4-5-6-7
<i>Primula vulgaris</i> ⁴	Primrose	26/1	1-3-5-6
<i>P. veris</i>	Cowslip	14/4	4-5-6

⁴ The primrose occasionally occurs in some places during the months not given. Early flowers are often seen in late December.

I.	II.	III.	IV.
<i>Lysimachia vulgaris</i>	Yellow loosestrife	11/7	6-7-8-9
<i>L. nummularia</i>	Creeping Jenny	13/7	6-7-8
<i>L. nemorum</i>	Yellow pimpernel	16/5	4-6-7-9
<i>Glaux maritima</i>	Sea Milkwort	4/6	5-6-7-8
<i>Anagallis arvensis</i>	Scarlet pimpernel	29/5	5-6-8-10
<i>A. fœmina</i>	Blue p.	(9/7)	6-7-8
<i>A. tenella</i>	Bog. p.	23/6	6-7-8-9
<i>Samolus valerandi</i>	Brookweed	17/7	6-7-8-9
<i>Fraxinus excelsior</i>	Ash	11/4	4-5
<i>Ligustrum vulgare</i>	Privet	5/6	5-6-7
<i>Vinca major</i>	Great periwinkle	8/3	2-3-4-5
<i>V. minor</i>	Lesser p.	24/2	2-3-4-5
<i>Blackstonia perfoliata</i>	Yellow centaury	27/6	6-7-8-9
<i>Centaurium umbellatum</i>	Red c.	3/7	6-7-8-10
<i>C. pulchellum</i>		6/7	6-7-8-10
<i>Gentiana amarella</i>	Autumn gentian	15/8	7-8-9-10
<i>Menyanthes trifoliata</i>	Bog bean	21/5	5-6-7
<i>Polemonium cœruleum</i>	Jacob's ladder	10/6	6-7
<i>Cynoglossum officinale</i>	Hound's tongue	5/6	4-5-7-9
<i>Symphytum officinale</i>	Comfrey	3/5	5-6-7-9
<i>S. peregrinum</i>	Rough c.	7/6	6-7-8
<i>Borago officinalis</i>	Borage	6/6	5-6-7-9
<i>Achusa sempervirens</i>	Evergreen alkanet	12/4	3-4-6-8
<i>Lycopsis arvensis</i>	Field a.	20/5	4-5-7-9
<i>Myosotis palustris</i>	Forget-me-not	20/5	5-6-7-8
<i>M. cœspitosa</i>	Tufted f.	31/5	5-6-7-8
<i>M. repens</i>	Creeping f.	6/6	5-6-7-8
<i>M. arvensis</i>	Field f.	14/4	3-4-6-9
<i>M. collina</i>	Early f.f.	7/4	3-4-5-7
<i>M. versicolor</i>	Versicolor f.	3/5	4-5-7
<i>Lithospermum officinale</i>	Gromwell	9/6	5-6-7-9
<i>L. arvense</i>	Corn g.	(11/6)	5-6-7
<i>L. purpureocœruleum</i>	Purple g.	(14/6)	4-5-6-7
<i>Echium vulgare</i>	Viper's Bugloss	10/6	5-6-8-9
<i>Calystegia sepium</i>	Great bindweed	20/6	6-7-8-9
<i>C. soldanella</i>	Sea b.	11/7	6-7-8
<i>Convolvulus arvensis</i>	Small b.	8/6	5-6-8-9
<i>Cuscuta epithimum</i>	Heath dodder	5/7	7-8-9
<i>Solanum dulcamara</i>	Woody nightshade	29/5	5-6-8-10
<i>S. nigrum</i>	Black n.	16/7	7-8-10
<i>Lycium chinense</i>	False tea plant	10/5	4-5-7-9
<i>Atropa belladonna</i>	Deadly nightshade	9/7	6-7-9
<i>Datura stramonium</i>	Thorn apple	(3/7)	6-7-8-9
<i>Hyoscamus niger</i>	Henbane	9/6	5-6-8-9
<i>Verbascum thapsus</i>	Mullein	22/6	6-7-9
<i>V. virgatum</i>	Large-flowered m.	26/6	6-7-8-9
<i>V. blattaria</i>	Moth m.	(9/8)	6-7-8-9

I.	II.	III.	IV.
<i>Linaria vulgaris</i>	Yellow toadflax	5/7	5-7-8-10
<i>L. cymbalaria</i>	Ivy-leaved t.	13/3	3-6-8-10
<i>L. spuria</i>	Fluellen	13/7	7-9-10
<i>L. elatine</i>	Sharp-leaved f.	29/7	7-9-10
<i>L. purpurea</i>	Purple toadflax	14/6	6-7-8-9
<i>L. minor</i>	Small t.	19/6	6-7-8-10
<i>Antirrhinum majus</i>	Antirrhinum	31/5	5-7-8-10
<i>A. orontium</i>	Weasel-snout	(16/9)	7-8-9
<i>Scrophularia nodosa</i>	Hedge figwort	27/5	5-6-9-10
<i>S. aquatica</i>	Water f.	7/6	6-7-9-10
<i>Mimulus moschatus</i>	Musk	22/6	6-7-8
<i>M. guttatus</i>	Monkey m.	23/6	6-7-8-9
<i>Sibthorpia europæa</i>	Cornish moneywort	26/6	6-7-8-9
<i>Digitalis purpurea</i>	Foxglove	9/6	6-7-8-10
<i>Veronica agrestis</i>	Field speedwell	7/3	1-3-9-10
<i>V. polita</i>	Grey f.s.	24/3	2-3-9-10
<i>V. hederæfolia</i>	Ivy-leaved s.	2/3	2-3-5-6
<i>V. persica</i>	Buxbaum's s.	7/2	1-3-9-12
<i>V. arvensis</i>	Wall s.	14/4	3-5-7-9
<i>V. serpyllifolia</i>	Thyme-leaved s.	19/4	4-5-7-9
<i>V. officinalis</i>	Common or heath s.	1/6	5-6-7-8
<i>V. chamædrys</i>	Germander s.	9/4	4-5-6-7
<i>V. montana</i>	Mountain s.	13/5	5-6-7
<i>V. scutellata</i>	Marsh s.	1/7	6-7-8-9
<i>V. aquatica</i>	Water s.	9/6	6-7-8
<i>V. beccabunga</i>	Brooklime	19/5	5-6-8-9
<i>Euphrasia officinalis</i> (agg.)	Eyebright	19/6	5-7-8-10
<i>Bartsia odontites</i>	Red Bartsia	22/6	6-7-8-9
<i>Pedicularis palustris</i>	Marsh lousewort	25/6	6-7-8-10
<i>P. sylvatica</i>	Heath l.	11/5	4-6-7
<i>Rhinanthus minor</i>	Yellow rattle	17/5	5-6-7
<i>Melampyrum pratense</i>	Cow-wheat	12/6	6-7-8
<i>Orobanche hederæ</i>	Ivy broomrape	(23/6)	6-7-8
<i>O. minor</i>	Small b.	20/6	6-7-8-10
<i>Lathræa squamaria</i>	Toothwort	12/4	3-4-5
<i>Utricularia vulgaris</i>	Bladderwort	8/7	6-7-8-9
<i>Pinguicula lusitanica</i>	Western butterwort	24/6	6-7-8
<i>Verbena officinalis</i>	Vervain	17/7	7-8-9
<i>Mentha spicata</i>	Spear mint	25/8	7-8-9-10
<i>M. rotundifolia</i>	Round-leaved m.	12/8	8-9
<i>M. piperita</i>	Peppermint	16/8	8-9-10
<i>M. aquatica</i>	Water mint	30/7	7-8-9-10
<i>M. verticillata</i>	Whorl m.	26/7	7-8-9-10
<i>M. rubra</i>	Red m.	18/7	7-8-9
<i>M. gentilis</i>		(20/8)	8-9-10
<i>M. arvensis</i>	Field m.	27/7	7-8-9
<i>Lycopus europæus</i>	Gipsywort	2/8	7-8-9

I.	II.	III.	IV.
<i>Origanum vulgare</i>	Marjoram	21/7	7-8-9
<i>Thymus serpyllum</i>	Thyme	19/6	6-7-8-10
<i>Clinopodium vulgare</i>	Wild basil	10/7	7-8-9
<i>Acinos arvensis</i>	Basil thyme	10/6	6-7-8-10
<i>Calamintha ascendens</i>	Calamint	20/7	6-7-8-10
<i>Melissa officinalis</i>	Balm	29/7	7-8-9
<i>Salvia horminoides</i>	Wild sage	25/5	5-6-8-10
<i>Nepeta cataria</i>	Catmint	30/7	7-8-9
<i>N. hederacea</i>	Ground ivy	17/3	3-4-5-6
<i>Scutellaria galericulata</i>	Skullcap	19/6	6-7-8-9
<i>S. minor</i>	Lesser s.	13/7	7-8-9
<i>Prunella vulgaris</i>	Self-heal	9/6	6-7-9
<i>P. laciniata</i>		(18/6)	6-7-9
<i>Marrubium vulgare</i>	White horehound	9/6	6-7-8-9
<i>Stachys officinalis</i>	Wood betony	9/7	7-8-9
<i>S. palustris</i>	Marsh woundwort	5/7	7-8-9
<i>S. sylvatica</i>	Hedge w.	1/6	5-7-8-9
<i>S. arvensis</i>	Corn w.	(18/7)	4-5-8-11
<i>Galeopsis tetrahit</i>	Hemp nettle	25/7	7-8-10
<i>G. angustifolia</i>	Red h.n.	(22/7)	7-8-9
<i>Lamium purpureum</i>	Red deadnettle	10/1	1-5-8-12
<i>L. amplexicaule</i>	Henbit d.	24/5	4-6-8-10
<i>L. album</i>	White d.	11/3	2-5-8-10
<i>L. galeobdolon</i>	Yellow d.	16/4	4-5-6
<i>Ballota nigra</i>	Black horehound	24/6	6-7-8-10
<i>Teucrium scorodonia</i>	Wood sage	6/7	6-7-8-10
<i>Ajuga reptans</i>	Bugle	25/4	4-5-6-7
<i>Plantago maritima</i>	Sea plantain	17/6	6-7-8-9
<i>P. coronopus</i>	Buckshorn p.	22/5	5-6-7-9
<i>P. lanceolata</i>	Ribwort p.	12/4	4-5-8-9
<i>P. media</i>	Hoary p.	12/6	6-7-8-9
<i>P. major</i>	Great p.	4/6	6-7-8-9
<i>Scleranthus annuus</i>	Annual knawel	15/7	5-7-8-9
<i>Chenopodium album</i>	White goosefoot	8/7	7-8-9-10
<i>C. polyspermum</i>	Many-seeded g.	24/7	7-8-9
<i>C. murale</i>	Nettle-leaved g.	12/8	7-8-9-10
<i>C. rubrum</i>	Red g.	4/8	8-9-10
<i>C. bonus-henricus</i>	Good king Henry	26/5	5-6-7-9
<i>Beta maritima</i>	Wild beet	26/6	6-7-9-11
<i>Atriplex patula</i>	Common orache	13/7	7-8-9-10
<i>A. hastata</i>	Hastate-leaved o.	25/7	7-8-9-10
<i>A. glabriuscula</i>		5/8	7-8-9
<i>Obione portulacoides</i>	Obione	15/8	8-9
<i>Salicornia europæa</i> (agg.)	Glasswort	17/8	7-8-10
<i>Suaeda maritima</i>	Sea-blite	3/8	7-8-9-10
<i>Salsola kali</i>	Saltwort	25/6	6-7-8-9
<i>Polygonum bistorta</i>	Bistort	5/6	5-6-7-8

I.	II.	III.	IV.
<i>Polygonum convolvulus</i>	Black bindweed	25/6	6-7-8-10
<i>P. aviculare</i> (agg).	Knotgrass	16/6	6-8-9-10
<i>P. hydropiper</i>	Biting persicaria	5/8	7-8-9-10
<i>P. persicaria</i>	Spotted p.	7/7	7-8-9-10
<i>P. lapathifolium</i>	Pale-flowered p.	20/7	7-8-9-10
<i>P. nodosum</i>	Great p.	19/8	7-8-9-10
<i>P. amphibium</i>	Floating p.	4/7	7-8
<i>P. cuspidatum</i>	Cuspidate p.	17/8	7-8-9-10
<i>Fagopyrum sagittatum</i>	Buckwheat	(19/6)	6-7-9
<i>Rumex pulcher</i>	Fiddle dock	16/6	5-6-7-8
<i>R. conglomeratus</i>	Sharp d.	5/6	5-7-8-9
<i>R. sanguineus</i>	Bloody d.	(2/8)	7-8-9-10
<i>R. condyloides</i>	Wood d.	11/6	5-6-7-8
<i>R. obtusifolius</i>	Broad-leaved d.	25/5	5-6-8-10
<i>R. crispus</i>	Wavy d.	28/5	5-6-8-9
<i>R. hydrolapathum</i>	Water d.	10/7	7-8
<i>R. acetosa</i>	Sorrel	11/5	5-6-7
<i>R. acetosella</i>	Sheep s.	10/5	5-6-7
<i>Daphne laureola</i>	Spurge laurel	8/2	2-3-4
<i>Hippophæ rhamnoides</i>	Sea buckthorn	26/5	4-5-6-7
<i>Viscum album</i>	Mistletoe	1/3	2-3-4-5
<i>Euphorbia peplus</i>	Petty spurge	2/3	3-4-8-10
<i>E. amygdaloides</i>	Wood s.	5/4	3-4-5-6
<i>E. helioscopia</i>	Sun s.	3/5	4-5-8-10
<i>E. paralias</i>	Sea s.	12/6	5-6-7-9
<i>E. exigua</i>	Dwarf s.	27/6	6-7-8-10
<i>E. lathyris</i>	Caper s.	14/5	4-5-6
<i>Buxus sempervirens</i>	Box	15/3	3-4-6
<i>Mercurialis perennis</i>	Dog's mercury	30/1	1-3-4-5
<i>M. annua</i>	Annual d.m.	5/6	5-7-9-10
<i>Ulmus glabra</i>	Wych elm	27/2	2-3-4-5
<i>U. procera</i>	Common e.	22/2	2-3-4
<i>Humulus lupulus</i>	Hop	7/8	7-8-9
<i>Urtica dioica</i>	Stinging nettle	22/5	5-6-8-10
<i>U. urens</i>	Small s.n.	5/4	4-5-8-10
<i>Parietaria diffusa</i>	Pellitory	23/5	5-6-8-10
<i>Myrica gale</i>	Sweet gale	25/4	4-5-6-7
<i>Betula alba</i>	Silver birch	17/4	3-4-5-6
<i>B. pubescens</i>	Birch	25/4	4-5-6-7
<i>Alnus glutinosa</i>	Alder	5/3	2-3-4
<i>Carpinus betulus</i>	Hornbeam	4/5	4-5-6
<i>Corylus avellana</i>	Hazel	15/1	1-2-3-4
<i>Quercus robur</i>	Pedunculate oak	4/5	4-5
<i>Q. petraea</i>	Sessile-fruited o.	4/5	4-5
<i>Q. ilex</i>	Holly o.	23/5	5-6
<i>Q. cerris</i>	Turkey o.	12/5	5-6-7
<i>Fagus sylvatica</i>	Beech	7/5	4-5-6

I.	II.	III.	IV.
<i>Juglans regia</i>	Walnut	2/5	4-5-6
<i>Salix triandra</i>	French willow	22/4	4-5-6
<i>S. fragillix</i>	Crack w.	6/4	3-4-5
<i>S. alba</i>	White w.	19/5	5-6
<i>S. purpurea</i>	Purple w.	(30/4)	3-4-5
<i>S. viminalis</i>	Osier	28/4	4-5
<i>S. aurita</i>	Auricled willow	6/4	3-4-5
<i>S. caprea</i>	Goat w.	7/3	2-3-4
<i>S. cinerea</i>	Grey w.	11/3	2-3-4
<i>S. repens</i>	Creeping w.	12/4	4-5-6
<i>Populus alba</i>	White poplar	21/3	3-4-5
<i>P. nigra</i>	Black p.	10/3	2-3-4
<i>P. fastigiata</i>	Lombardy p.	8/3	2-3-4
<i>P. serotina</i>		2/3	2-3-4-5
<i>Empetrum nigrum</i>	Crowberry	(14/4)	4-5-6
<i>Ceratophyllum demersum</i>	Honewort	(29/7)	6-7-8-9
<i>Elodea canadensis</i>	Elodea	18/7	6-7-8-9
<i>Hydrocharis morsus-ranæ</i>	Frog-bit	15/7	6-7-8
<i>Neottia nidus-avis</i>	Bird's-nest orchid	(15/7)	5-6-7-8
<i>Listera ovata</i>	Tway-blade	23/5	5-6-7
<i>L. cordata</i>	Small t.	(7/6)	6-7-8
<i>Spiranthes spiralis</i>	Lady's tresses	6/9	8-9-10
<i>Epipactis palustris</i>	Marsh helleborine	11/7	7-9-10
<i>E. latifolia</i>	Common h.	(11/8)	7-8-9-10
<i>Orchis pyramidalis</i>	Pyramidal orchid	21/6	6-7-8
<i>O. morio</i>	Green-winged o.	30/4	4-5-6
<i>O. mascula</i>	Early purple o.	17/4	3-4-5-6
<i>O. prætermissa</i>	Marsh o.	8/6	5-6-7
<i>O. latifolia</i> (agg.)	" "	14/6	5-6-7
<i>O. maculata</i>	Spotted o.	2/6	5-6-7-8
<i>O. ericetorum</i>	Heath s.o.	12/6	5-6-7
<i>Ophrys apifera</i>	Bee o.	18/6	6-7
<i>O. muscifera</i>	Fly o.	(7/6)	5-6-7
<i>Gymnadenia conopsea</i>	Fragrant o.	25/6	6-7-8
<i>Cœloglossum viride</i>	Frog o.	(25/6)	5-6-7
<i>Platanthera bifolia</i>	Small butterfly o.	22/6	6-7
<i>P. chlorantha</i>	Large b.o.	4/6	5-6-7
<i>Iris foetidissima</i>	Fœtid iris	16/6	5-6-7
<i>I. pseudacorus</i>	Flag	27/5	5-6-7
<i>Narcissus pseudo-narcissus</i>	Daffodil	2/3	2-3-4-5
<i>Galanthus nivalis</i>	Snowdrop	15/2	2-3-4
<i>Leucojum vernum</i>	Spring snowflake	24/2	2-3-4
<i>Tamus communis</i>	Black bryony	2/6	5-6-7-8
<i>Ruscus aculeatus</i>	Butcher's broom	22/3	2-3-5-7
<i>Asparagus maritimus</i>	Asparagus	(15/6)	6-7-8
<i>Polygonatum multiflorum</i>	Solomon's seal	(15/5)	5-6-7-8
<i>Convallaria majalis</i>	Lily-of-the-valley	13/5	4-5-6

I.	II.	III.	IV.
<i>Allium vineale</i>	Crow garlic	6/7	6-7-8
<i>A. ursinum</i>	Ramsons	20/4	4-5-6
<i>Scilla non-scripta</i>	Bluebell	12/4	3-4-5-6
<i>Ornithogalum umbellatum</i>	Star of Bethlehem	20/5	4-5-6
<i>Colchicum autumnale</i>	Meadow saffron	13/9	8-9-10
<i>Narthecium ossifragum</i>	Bog asphodel	10/7	6-7-8
<i>Paris quadrifolia</i>	Herb Paris	27/4	4-5-6-7
<i>Juncus bufonius</i>	Toad rush	21/6	6-7-8-9
<i>J. squarrosus</i>	Heath r.	22/6	6-7-8-9
<i>J. compressus</i>	Round-fruited r.	(23/7)	6-7-8
<i>J. gerardi</i>	Sea r.r.	29/6	6-7-8
<i>J. inflexus</i>	Hard r.	30/6	6-7-8
<i>J. effusus</i>	Soft r.	23/6	6-7-8
<i>J. conglomeratus</i>	Crowded s.r.	27/6	6-7-8-9
<i>J. maritimus</i>	Sea r.	(9/8)	7-8-9
<i>J. subnodulosus</i>	Obtuse-flowered r.	22/7	7-8-9
<i>J. bulbosus</i>	Lesser jointed r.	16/6	6-7-8-9
<i>J. acutiflorus</i>	Jointed r.	8/7	6-7-8-9
<i>J. articulatus</i>	Shining j.r.	8/7	6-7-8-9
<i>Luzula pilosa</i>	Hairy woodrush	2/4	2-4-5-6
<i>L. forsteri</i>	Forster's w.	22/4	4-5-6
<i>L. sylvatica</i>	Great hairy w.	22/4	4-5-6-7
<i>L. campestris</i>	Field w.	6/4	3-4-5-6
<i>L. multiflora</i>	Heath w.	27/4	4-5-7-8
<i>Typha latifolia</i>	Reed-mace	5/7	6-7-8
<i>T. angustifolia</i>	Smaller r.	13/7	6-7-8
<i>Sparganium erectum</i>	Branched bur-reed	28/6	6-7-8-9
<i>S. neglectum</i>		16/7	6-7-8-9
<i>S. simplex</i>	Floating b.	4/7	6-7-8-9
<i>S. angustifolium</i>		(25/7)	7-8
<i>Arum maculatum</i>	Cuckoo-pint	16/4	3-4-5
<i>A. italicum</i>	Early-leaved c.	(15/6)	5-6
<i>Lemna minor</i>	Small duckweed	31/5	5-7
<i>L. trisulca</i>	Ivy-leaved d.	(8/7)	5-6-7
<i>L. gibba</i>	Gibbous d.	(20/6)	6-7-9
<i>Alisma plantago-aquatica</i>	Water plantain	14/6	6-7-8-9
<i>A. lanceolatum</i>	Lanceolate w.p.	27/6	6-7-8
<i>A. ranunculoides</i>		30/6	6-7-8-9
<i>Sagittaria sagittifolia</i>	Arrowhead	7/7	6-7-8
<i>Butomus umbellatus</i>	Flowering rush	7/7	6-7-8
<i>Triglochin palustre</i>	Marsh arrow-grass	27/6	6-7-9
<i>T. maritimum</i>	Seaside a.	24/5	5-6-7-9
<i>Potamogeton crispus</i>	Curly pondweed	28/6	6-7-8
<i>P. natans</i>	Broad-leaved p.	14/6	6-7
<i>P. polygonifolius</i>	Dock-leaved p.	16/6	6-7-8
<i>P. coloratus</i>	Plantain-leaved p.	(12/6)	6-7-8
<i>P. lucens</i>	Shining p.	22/6	6-7-8

I.	II.	III.	IV.
<i>Potamogeton densus</i>	Opposite-leaved p.	27/6	6-7-9
<i>P. perfoliatus</i>	Perfoliate p.	7/7	6-7-8
<i>P. pusillus</i>	Small p.	6/7	6-7-8-9
<i>P. pectinatus</i>	Fennel-leaved p.	4/7	6-7-8
<i>Zannichellia palustris</i>	Horned p.	5/6	5-6-7-8
<i>Z. pedicellata</i>	Sea h.p.	(14/7)	5-6-7-8
<i>Eleocharis palustris</i>	Marsh club-rush	13/6	5-6-7-8
<i>E. uniglumis</i>	One-glumed c.	(11/6)	5-6-7
<i>E. multicaulis</i>	Many-stalked c.	21/6	5-6-8-9
<i>Scirpus cæspitosus</i>	Deer's grass	3/6	5-6-8-9
<i>S. fluitans</i>	Floating club-rush	14/6	6-7-8
<i>S. cernuus</i>	Slender c.	(12/7)	6-7-8
<i>S. setaceus</i>	Bristle c.	30/6	5-6-7-9
<i>S. holoschoenus</i>	Round-headed c.	27/7	7-8-9-10
<i>S. tabernæmontani</i>	Bulrush	5/7	6-7-8-9
<i>S. maritimus</i>	"	22/6	6-7-8-9
<i>S. sylvaticus</i>	Wood club-rush	16/6	6-7-8-9
<i>S. compressus</i>	Compressed c.	(27/6)	6-7-8
<i>Eriophorum angustifolium</i>	Cotton-grass	15/5	5-6-7-8
<i>E. vaginatum</i>	Hare's-tail c.	30/5	4-5-7
<i>E. latifolium</i>	Broad-leaved c.	5/6	5-6-7
<i>Cladium mariscus</i>	Cladium	(29/7)	7-8
<i>Rhynchospora alba</i>	White-beaked sedge	13/7	6-7-8
<i>R. fusca</i>	Brown-beaked s.	(17/7)	7-8
<i>Carex pulicaris</i>	Flea s.	30/5	5-6-7
<i>C. disticha</i>	Soft brown s.	10/6	6
<i>C. arenaria</i>	Sand s.	23/5	5-6-8
<i>C. paniculata</i>	Tussock s.	2/6	5-6-8
<i>C. vulpina (otrubæ)</i>	Fox s.	17/5	5-6-7-8
<i>C. spicata (muricata)</i>	Greater prickly s.	29/5	5-6-8
<i>C. divulsa</i>		24/5	5-6-7
<i>C. echinata</i>	Lesser p.s.	11/6	5-6-7-8
<i>C. remota</i>	Remote s.	21/5	5-6-7-8
<i>C. ovalis</i>	Oval s.	24/6	6-7-8
<i>C. nigra (goodenowii)</i>	Common s.	12/5	5-6-7-8
<i>C. flacca (glauca)</i>	Glaucous heath s.	27/4	4-5-7-8
<i>C. humilis</i>	Dwarf silvery s.	2/4	4-5-6
<i>C. pilulifera</i>	Pill-headed s.	6/6	5-6
<i>C. caryophyllea</i>	Vernal s.	19/4	4-5-6
<i>C. pallescens</i>	Pale s.	7/6	5-6-7
<i>C. panicea</i>	Carnation s.	18/5	5-6-7
<i>C. pendula</i>	Pendulous s.	19/4	4-5-6
<i>C. sylvatica</i>	Wood s.	11/5	5-6-7
<i>C. strigosa</i>		7/5	4-5-6-7
<i>C. lævigata</i>		12/6	5-6-7
<i>C. binervis</i>	Green-ribbed s.	17/6	5-6-8
<i>C. distans</i>	Distant s.	10/6	5-6-7

I.	II.	III.	IV.
<i>C. fulva</i>	Tawny s.	8/6	5-6-7
<i>C. flava</i>	Yellow s.	7/6	5-6-7-8
<i>C. serotina</i> (æderi)		12/6	6-7-8
<i>C. hirta</i>	Hairy s.	23/5	5-6-7
<i>C. lasiocarpa</i>	Slender-leaved s.	(19/6)	5-6
<i>C. pseudocyperus</i>	Cyperus s.	7/6	5-6-7
<i>C. acutiformis</i>	Common marsh s.	15/5	4-5-6-7
<i>C. riparia</i>	Great m.s.	14/5	5-6-7
<i>C. rostrata</i>	Slender-beaked s.	27/6	5-6
<i>C. vesicaria</i>		(15/5)	5-6
<i>Spartina townsendii</i>	Cord grass	3/7	7-8-10
<i>Phalaris canariensis</i>	Canary g.	24/6	5-6-7-8
<i>P. arundinacea</i>	Reed c.g.	19/6	6-7-8
<i>Anthoxanthum odoratum</i>	Fragrant vernal g.	28/4	4-5-6-7
<i>Alopecurus pratensis</i>	Foxtail g.	4/5	5-6-7
<i>A. myosuroides</i>	Field f.g.	17/5	5-6-7-9
<i>A. geniculatus</i>	Kneed f.g.	27/5	5-6-7-9
<i>Milium effusum</i>	Millet g.	3/6	5-6-7
<i>Phleum pratense</i>	Timothy g.	7/7	6-7-8-9
<i>P. nodosum</i>		4/7	6-7-8
<i>P. arenarium</i>	Sand t.g.	3/6	5-6-7
<i>Agrostis setacea</i>	Heath bent	8/7	6-7-8
<i>A. canina</i>	Brown b.	19/7	6-7-8
<i>A. stolonifera</i> (alba)	White b.	8/7	6-7-8
<i>A. tenuis</i>	Fine b.	27/6	6-7-8
<i>A. gigantea</i> (nigra)	Black b.	13/7	7
<i>Calamagrostis epigeios</i>	Wood small reed	28/7	7-8-9
<i>Ammophila arenaria</i>	Marram grass	16/7	6-7-8-10
<i>Aira caryophyllea</i>	Silver hair g.	11/6	5-6-7-8
<i>A. præcox</i>	Early s.h.g.	29/5	5-6
<i>Deschampsia flexuosa</i>	Purple hair g.	27/6	6-7
<i>D. cæspitosa</i>	Tufted h.g.	6/7	7-8
<i>Holcus mollis</i>	Soft g.	29/6	6-7-8
<i>H. lanatus</i>	Yorkshire fog	28/5	5-6-7-8
<i>Trisetum flavescens</i>	Yellow oat g.	18/6	6-7-8
<i>Helictotrichon pubescens</i>	Downy oat	21/6	6-7
<i>H. pratensis</i>		20/6	6-7
<i>Arrhenatherum elatius</i>	False oat g.	6/6	5-6-8-11
<i>A. tuberosum</i>	' Onion couch '	27/6	6-8-10
<i>Sieglingia decumbens</i> ⁵	Heath g.	(3/7)	6-7-8
<i>Phragmites communis</i>	Reed	24/8	7-8-9-10
<i>Cynosurus cristatus</i>	Dog's tail g.	5/6	5-6-7-8
<i>Koeleria brittanica</i>	Crested hair g.	24/6	6-7-8
<i>K. vallesiana</i>		25/6	6-7-8

⁵ As the flower-buds do not open the time of flowering is taken from indications of fruit-formation.

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I.	II.	III.	IV.
<i>Molinia cærulea</i>	Blue moor g.	12/7	7-8-9
<i>Catabrosa aquatica</i>	Marsh whorled g.	3/6	5-6-7
<i>Melica uniflora</i>	Melic g.	7/5	5-6
<i>Dactylis glomerata</i>	Cock's-foot g.	1/6	5-7-8-10
<i>Briza media</i>	Quaking g.	6/6	5-6-7
<i>Poa annua</i>	Annual meadow g.	9/1	1-5-9-12
<i>P. nemoralis</i>	Wood m.g.	21/6	6-7
<i>P. compressa</i>	Flat-stalked m.g.	22/6	6-7-8
<i>P. pratensis</i>	Smooth m.g.	15/5	5-6-7
<i>P. trivialis</i>	Rough m.g.	1/6	5-6-7-8
<i>Glyceria fluitans</i>	Floating m.g.	23/5	5-6-7-8
<i>G. plicata</i>		4/6	5-6-7-8
<i>G. aquatica</i>	Reed m.g.	12/7	7-8
<i>Puccinellia maritima</i>		1/7	6-7-9
<i>P. distans</i>		23/6	6-7-8
<i>Scleropoa rigida</i>	Rigid fescue g.	30/5	5-6-7
<i>Desmazeria loliacea</i>		28/6	5-6-7-8
<i>Vulpia membranacea</i>	One-glumed f.g.	4/6	5-6-7
<i>V. myuros</i>	Wall f.	9/6	6-7-8
<i>V. bromoides</i>	" "	14/6	6-7-8
<i>Festuca ovina</i>	Sheep's f.	3/6	6-7-8
<i>F. rubra</i>	Red f.	9/6	6-7-8
<i>F. pratensis</i>	Meadow f.	23/6	6-7-8
<i>F. arundinacea (elatior)</i>	Tall m.f.	21/6	6-7-8-9
<i>F. giganteus</i>	Giant f. (brome)	24/7	7-8-9
<i>Bromus ramosus</i>	Hairy brome	14/7	7-8-9
<i>B. erectus</i>	Erect b.	16/6	6-7-9
<i>B. sterilis</i>	Sterile b.	24/5	5-6-7
<i>B. commutatus</i>		29/6	6-7-8
<i>B. racemosus</i>		29/6	6-7-8
<i>B. mollis</i>	Soft b.	15/5	5-6-7
<i>Brachypodium sylvaticum</i>	False b.	8/7	7-8-9
<i>Lolium perenne</i>	Rye grass	27/5	5-6-8-10
<i>L. multiflorum</i>	Italian r.g.	15/6	6-7-8-10
<i>Agropyron repens</i>	Couch g.	3/7	6-7-8
<i>A. caninum</i>	Fibrous-rooted c.	4/7	6-7-8
<i>A. pungens</i>	Sharp c.g.	16/7	6-7-8
<i>A. junceum</i>	Jointed c. (sand c.)	3/7	6-7-9
<i>Lepturus filiformis</i>	Hard grass	28/6	6-7-9
<i>Nardus stricta</i>	Mat g.	11/6	6-7-8
<i>Hordeum nodosum</i>	Meadow barley	25/6	6-7-8
<i>H. murinum</i>	Wall b.	6/6	6-7-8
<i>H. marinum</i>	Sea b.	24/6	6-7-8
<i>Elymus arenarius</i>	Lyme grass	13/6	6-7-8
<i>Taxus baccata</i>	Yew	10/2	2-3-4
<i>Pinus sylvestris</i>	Pine	30/4	4-5-6