

SCIENCE PAPER No. 4.

A LIST
OF THE
FLOWERING PLANTS & FERNS
OCCURRING WITHIN
SIX MILES OF HASLEMERE.

COMPILED BY
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SECOND EDITION,
(revised and extended).

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HASLEMERE NATURAL HISTORY SOCIETY.

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Haslemere Educational Museum.*

INTRODUCTION.

The following is a list of plants which have been found in the district comprised within a six-mile radius from the town of Haslemere. The order and nomenclature are according to the Tenth Edition of the *London Catalogue*, synonyms being occasionally added in brackets. Indeed, one of the chief difficulties has been the identification of the various names, but it is hoped that all species have been accurately referred to the *London Catalogue*.

The list has no claim to originality; it is merely a compilation from several sources, verified as much as possible from the living flowers shown at the Educational Museum and from the dried specimens in its Herbarium.

(i.) In 1896 a Wild Flower Competition was held over this six-mile radius, under the auspices of the Haslemere Natural History Society, and the united collections resulting from it now form the Local Herbarium of the Museum. This, therefore, made a good basis for the list, and whenever the letter H is affixed to any plant, it indicates that it is to be found in the Herbarium.

(ii.) Records are also kept at the Museum of any additional plants which have been observed or reported within the radius; these, too, by the kindness of Mr. E. W. Swanton, Curator of the Museum, have been included.

(iii.) Finally, three local Floras, Dunn's *Flora of South-West Surrey*, Arnold's *Sussex Flora*, and Townsend's *Flora of Hampshire*, have been laid under contribution, and whenever a plant has been definitely recorded as occurring within our district, its name has been entered. Several rare species have been added in this way.

We should be very glad, therefore, to receive reports of the finding of any plant already entered in this list without the letter H, together with the exact locality where it was found, and if possible with a specimen to add to the Herbarium.

It has been thought wiser not to publish localities, in order to shield our remaining rare plants from the risk of extermination. This has already been the sad fate of many interesting specimens in the neighbourhood, and even such a common plant as the Primrose is being gradually destroyed in the immediate vicinity of Haslemere, its range having receded considerably within the last few years.

The names of six hundred and ninety-six species are included in the list, and six varieties; we hope that addi-

tions may yet be made. May we ask that the finder of any plant not so far entered would kindly report the fact to the Museum? Any other interesting items, such as the record of varieties or of abnormalities, would also be very gladly received.

A note as to the geological formation of the district will be the best basis for any comments on the Flora.

There are two types of soil, the Lower Greensand and the Weald Clay, and the area contained in our circle is divided nearly evenly between them, with a slight preponderance in favour of the Sand.

A line passing through Haslemere, drawn from the north-east to the south-west, will show almost all Greensand on its north-westerly side, and almost all Clay on the south-east, the tongue of sand projecting into the Weald by the spurs of Blackdown being balanced by the clay extending into the Hindhead range near Boundless and Witley Park. In addition to this, a portion of the southern range of Greensand projects into the south of our map by Henley Hill, Henley Common, and Redford Common.

Characteristic of the Greensand are these widely stretching commons, Witley Common, Thursley Common, Frensham Common, Hindhead Common, Ludshott Common, Bramshott Common, Lynchmere Common, Blackdown, and many others.

The Greensand over this area is composed chiefly of the Hythe beds and Folkstone beds. Throughout the Hythe beds the Bargate rock is liable to appear. Though not found within our district in sufficient quantities for quarrying, its presence is indicated here and there, as at Milford, by the occurrence of *Geranium lucidum*, and at Barford Mills by a few plants and shells, which are apparently confined to the Bargate.

A narrow band of Atherfield Clay borders the Greensand, a brackish water deposit useful for brickmaking, but of no special interest botanically. Then comes the great stretch of the Weald, formerly an oak forest, and still plentifully wooded.

The Chalk occurs nowhere within our radius, the nearest being about twelve miles off, on the Hog's Back. This fact, of course, reduces the flora very much. We include just a few chalk-loving plants, and these all seem to occur not far from the railway line, hinting that they may have been imported with chalk ballast. Among such plants are the Marjoram (*Origanum vulgare*), the Goat's-beard

(*Tragopogon pratense*), a Fumitory (*Fumaria densiflora*), the Bee Orchis, the Orange Hawkweed (*Hieracium aurantiacum*), and the Traveller's Joy (*Clematis vitalba*).

But no doubt the most obvious fact that strikes the eye of a botanical visitor to Haslemere is the very sharp definition to be noticed between the vegetation of the highlands and the lowlands, that is to say between the sand and the clay. Up on the sandy hills and moors we find what we regard as chiefly characteristic of the Haslemere neighbourhood great stretches of Heather in its three varieties (sometimes plentifully entangled with Dodder), the Whortleberry, the Dwarf Gorse (*Ulex minor*, not *gallii*, which only occurs farther west), the Club Moss, the Yellow Cow-wheat, the Scots Pine, Holly, Birch, Mountain Ash, and Alder Buckthorn; and on the lower slopes are Beech woods and Spanish Chestnut copses, with Bluebells, Wood Sorrel, Foxgloves and Hard Fern, and sometimes a blue patch of Devil's Bit Scabious, or Bugloss; whereas the trees whose green heads one looks down upon in the Weald are nearly all Oaks, and the woods are full of Primroses, Anemones, and Woody Spurge, with Dog Roses in the hedges, and Cowslips and Daffodils in the meadows.

The district is not one particularly rich in rarities. Occasionally there is a sporadic appearance of an unexpected plant, like the *Lotus hispidus*, a seaside species, which seems to be established at one spot. Then there is the *Hieracium surrejanum*, which Townsend notes as occurring in its typical form only near Hindhead (Townsend, *Flora of Hants*, p. 239). The Yew grows in many places, as on Blackdown, where it has every appearance of being indigenous, and at Fernhurst; the big Yew tree at Kiffold's Farm, on the south-east slope of Hindhead, is said to be one of the largest in England. The *Equisetum sylvaticum*, variety *capillare*, a rare plant, is noticeable for the rapidity with which it has lately been increasing in this neighbourhood.

There are some rare water-plants to be found in our moorland pools and lakes, such as the two *Elatines*, *hexandra* and *Hydropiper*, *Cenanthe fistulosa* and *Littorella uniflora*.

But the bogs provide probably the most interesting hunting-grounds in our district. Here, amidst plentiful heather and "hurts," is a spongy carpet of bogmoss, and a little search will soon reveal the two Sundews, round-leaved and long-leaved, the Bog Pimpernel lying close on the ground, and throwing up its pale pink flowers, the

small creeping Willow (*Salix repens*), the delicate ivy-leaved Campanula, the grey blossoms of the Marsh Violet, the Bog Asphodel, the Buckbean (the leaves, at any rate, very plentiful in places), while the Ragged Robin, the Cotton Grass, and the Spotted Palmate Orchis are conspicuous in the more open and marshy places.

Several aliens are included in the list, amongst them being the *Claytonia perfoliata*, which is spreading quickly and becoming established, the *Solidago lanceolata*, which appeared suddenly in considerable quantities on a spot where a wood had been cleared in 1908, the *Elodea canadensis*, frequently found in our pools, the *Fagopyrum sagittatum*, growing in pheasant preserves, the *Mimulus luteus*, on the banks of some streams below Blackdown, the seeds having probably floated down from the neighbourhood of Lythe Hill, the *Erigeron canadense* and the *Amelanchier canadensis*.

A curious thing to notice about our woods is the sudden change which may be brought upon the character of the flora by copse cutting. There may be a dense wood composed of crowded holly, beech, and oak, with almost no undergrowth of flowering plants. The place happens to be cleared, and in the following year many flowers appear, sometimes in extraordinary profusion. This is often the case with Foxgloves or the Rosebay Willow herb, turning the whole patch crimson. Sometimes quite strange plants will spring up, such as the American Golden Rod mentioned above, and often the flowers will be of kinds not before found in the immediate neighbourhood; their seeds in all probability were lying dormant in the soil, awaiting suitable conditions for germination.

For this note, as for very many others, the compiler wishes to express her indebtedness to Mr. Swanton. Indeed, the work has been mainly compiled from the fruit of his past labours, laid most generously at her disposal.

NOTE TO SECOND EDITION.

In the First Edition, published in 1909, six hundred and ninety-six species and six varieties were recorded. Several species were added in a supplement, issued in 1920. The present list brings the total up to seven hundred and seventy species and twenty-nine varieties and hybrids. It includes garden escapes and casual aliens.

LIST OF PLANTS.

[Species commonly distributed throughout the district are recorded in the list without comment. Those marked H are represented in the Museum Herbarium.]

RANUNCULACEÆ.

- Clematis Vitalba* (Traveller's Joy). H. Uncommon in this district.
- Thalictrum flavum* (Meadow Rue). H. Very rare, only once recorded.
- Anemone nemorosa* (Wood Anemone). H.
- Ranunculus peltatus* (Common Water Crowfoot). H.
- R. Lenormandi* (Mud Crowfoot). H. Frequent.
- R. hederaceus* (Ivy-leaved Crowfoot). H.
- R. sceleratus* (Celery-leaved Crowfoot). H. Not common, but generally distributed.
- R. Flammula* (Lesser Spearwort). H. Very common in wet places.
- R. auricomus* (Goldilocks). H. Uncommon.
- R. acris* (Buttercup). H.
- R. repens* (Creeping Buttercup). H.
- R. bulbosus* (Bulbous Buttercup). H.
- R. parviflorus* (Small-flowered Buttercup). H. Very rare, only once recorded.
- R. arvensis* (Corn Buttercup). H.
- R. Ficaria* (Lesser Celandine). H.
- Caltha palustris* (Marsh Marigold, Kingcup). H.

NYMPHÆACEÆ.

- Nymphæa (Nuphar) lutea* (Yellow Water-lily). H.
- Castalia (Nymphæa) alba* (White Water-lily). H.

PAPAVERACEÆ.

- Papaver Rhæas* (Common Field Poppy). H.
P. dubium (Long Smooth-headed Poppy). H. Local, but not common.
P. Argemone (Pale Poppy, Long Rough-headed). H. Common in this district.
Chelidonium majus (Common Celandine). H.

FUMARIACEÆ.

- Corydalis lutea* (Yellow Fumitory). H. Escape from cultivation.
C. claviculata (White Climbing Fumitory). H. Rare, but generally distributed.
Fumaria capreolata (*pallidiflora*) (Pale Fumitory). H. Very rare, only once recorded.
F. Bastardi (*confusa*) (Rampant Fumitory). H. Very local.
F. densiflora (Close-flowered Fumitory). Rare, probably introduced with chalk ballast.
F. officinalis (Common Fumitory). H.

CRUCIFERÆ.

- Radicula* (*Nasturtium*) *aquaticum* (Watercress). H.
Radicula (*Nasturtium*) *palustris* (Marsh Watercress). H. Rare.
Barbarea vulgaris (Yellow Rocket). H.
B. intermedia (Intermediate Yellow Rocket). A doubtful native. Very local.
B. verna (*præcox*) (Early Winter-cress). H. Very rare, apparently naturalized in one locality.
Arabis hirsuta (Hairy Rock Cress). H. In several localities, but rare.
A. glabra (*perfoliata*) (Tower Mustard). H. Not common. Only on the sand.
Cardamine amara (Large-flowered Bitter Cress). H. Rather common in this district.
C. pratensis (Cuckoo-flower, Lady's Smock). H.
C. hirsuta (Hairy Bitter Cress). H. Generally distributed.
C. flexuosa (Wood Bitter Cress). H.
Alyssum incanum. H. Garden escape.
A. alyssoides (*calycinum*). H. A casual, probably introduced with clover.
Erophila (*Draba*) *verna* (Whitlow-grass). H.
Hesperis matronalis (Dame's Violet). H. Garden escape.

- Sisymbrium Thalianum* (Thale-cress). H. Generally distributed.
- S. officinale* (Common Hedge Mustard). H.
- S. Alliaria* (Garlic Mustard). H.
- Erysimum cheiranthoides* (Treacle Mustard). H. Widely distributed, but not common.
- Brassica Napus* (Rape). H. Escape from cultivation.
- B. Rapa* (Turnip). H. Escape from cultivation.
- B. nigra* (Black Mustard). H. Frequent.
- B. (Sinapis) arvensis* (Charlock). H.
- Capsella Bursa-pastoris* (Shepherd's Purse). H.
- Coronopus procumbens (Ruellii)* (Common Wart-cress). H. Generally distributed.
- C. didymus* (Lesser Wart-cress). H. Uncommon.
- Lepidium campestre* (Pepperwort). H. Specially abundant on the Wealden.
- L. heterophyllum* var. *canescens (Smithii)* (Smooth Field Pepperwort). Uncommon.
- Thlaspi arvense* (Field Penny-cress). H. Rather rare.
- Iberis amara* (Bitter Candytuft). H. Escape from cultivation.
- Teesdalia nudicaulis* (Naked-stalked Teesdalia). H. Not common.
- Raphanus Raphanistrum* (Wild Radish). H. Common, but local.

RESEDACEÆ.

- Reseda luteola* (Dyer's Rocket). H. Only once recorded.

VIOLACEÆ.

- Viola palustris* (Marsh' Violet). H. Plentiful in Greensand bogs.
- V. odorata* (Sweet Violet). H. Frequent.
- V. sylvestris* (Lesser Wood Violet). H. Uncommon.
- V. Riviniana* (Wood Violet). H. The most abundant species in this neighbourhood.
- V. canina* (Dog Violet). Rare.
- V. tricolor* (Field Pansy). H. On cultivated ground.
- V. arvensis* (Field Violet). H. On cultivated ground.

POLYGALACEÆ.

- Polygala vulgaris* (Common Milkwort). H. Uncommon.
- P. serpyllacea* (Heath Milkwort). H.

CARYOPHYLLACEÆ.

- Dianthus deltoides* (Maiden Pink). H. Rare.
Silene latifolia (*Cucubalus*) (Bladder Campion). H. Common, especially on the Greensand.
S. anglica (English Catch-fly). H. Not uncommon.
Lychnis alba (White Campion). H. × *dioica*, uncommon.
L. dioica (Red Campion). H.
L. Flos-cuculi (Ragged Robin) H.
L. Githago (Corn Cockle). H. Fairly common.
Cerastium semidecandrum (Little Mouse-ear Chickweed). H. Not uncommon.
C. viscosum (*glomeratum*) (Broad-leaved Mouse-ear Chickweed). H. Very common.
C. vulgatum (*triviale*) (Narrow-leaved Mouse-ear Chickweed). H. Very common.
C. arvense (Field Mouse-ear Chickweed). Rare.
Mœnchia erecta (Upright Moenchia) H. Generally distributed.
Stellaria aquatica (Great Chickweed). H. Rare.
S. media (Common Chickweed). H.
S. Holostea (Greater Stitchwort). H.
S. palustris (Glaucous Stitchwort). H. Very local.
S. graminea (Lesser Stitchwort). H.
S. uliginosa (Bog Stitchwort). H. Common in wet places.
Arenaria trinerva (Three-nerved Sandwort). H.
A. serpyllifolia (Thyme-leaved Sandwort). H.
Sagina apetala (Small-flowered Pearlwort). Not uncommon.
S. ciliata (Ciliated Pearlwort). H. Not uncommon.
S. procumbens (Procumbent Pearlwort). H.
S. subulata (Awl-shaped Pearlwort). H. Uncommon.
S. nodosa (Knotted Pearlwort). H. Not common, but generally distributed.
Spergula arvensis (Corn Spurrey). H.
Spergularia rubra (Field Sand Spurrey). H.

PORTULACEÆ.

- Claytonia perfoliata* (Perfoliate Claytonia). H. Uncommon. Introduced from North-West America.
Montia fontana (Water Blinks). H. Greensand, in wet places.

ELATINACEÆ.

- Elatine hexandra* (Six-stamened Waterwort). H. Rare.
E. Hydropiper (Eight-stamened Waterwort). H. Very rare.

HYPERICACEÆ.

- Hypericum Androsæmum* (Tutsan). H. Not common.
H. perforatum (Common dotted-leaved St. John's wort). H. Common.
H. maculatum (*dubium*) (Imperforate St. John's wort). H. Rare.
Hypericum quadrangulum (Square-stemmed St. John's wort). H. Frequent.
H. humifusum (Trailing St. John's wort). H.
H. pulchrum (Small St. John's wort). H.
H. hirsutum (Hairy St. John's wort). H. Not common.
H. elodes (Marsh St. John's wort). H.

MALVACEÆ.

- Malva moschata* (Musk Mallow). H. Frequent.
M. sylvestris (Common Mallow). H.
M. rotundifolia (Dwarf Mallow). H. Not common.

TILIACEÆ.

- Tilia vulgaris* (Common Lime). H. Frequently planted.

LINACEÆ.

- Radiola linoides* (Flax-seed). H. Not uncommon.
Linum catharticum (Purging Flax). H.
L. usitatissimum (Common Flax). H. Introduced.
L. angustifolium (Pale Flax). H. Garden casual.

GERANIACEÆ.

- Geranium versicolor* (*striatum*). H. Garden escape.
G. pyrenaicum (Mountain Cranesbill). H. Recorded in one locality.
G. molle (Dove's foot Cranesbill). H.
G. pusillum (Small-flowered Cranesbill). H.
G. dissectum (Cut-leaved Cranesbill). H.
G. columbinum (Long-stalked Cranesbill). H. Rare.
G. lucidum (Shining Cranesbill). H. Locally frequent, on Bargate Rock.
G. Robertianum (Herb Robert). H.
Erodium cicutarium (Hemlock Stork'sbill). H. The var. *pimpinellifolium* is not uncommon.

- Oxalis Acetosella* (Wood Sorrel). H. Occasionally the pink-flowered form is frequent.
O. stricta (Upright Yellow Wood Sorrel). H. Occasional garden weed, not indigenous.
Impatiens biflora (American Balsam). H. Rare, casual in streams.

AQUIFOLIACEÆ.

- Ilex Aquifolium* (Holly). H.

CELASTRACEÆ.

- Euonymus europæus* (Spindle Tree). H. More abundant on Greensand than on Wealden.

RHAMNACEÆ.

- R. Frangula* (Alder Buckthorn). H. Frequent on sandy commons.

ACERACEÆ.

- Acer Pseudo-platanus* (Sycamore). H.
A. campestre (Maple). H.

LEGUMINOSÆ.

- Genista anglica* (Petty Whin). H. Frequent.
G. tinctoria (Dyer's Greenweed). H. Rare.
Ulex europæus (Gorse, Furze). H.
U. minor (nanus) (Dwarf Furze). H. Very abundant.
Cytisus scoparius (Broom). H. Abundant on Greensand, frequent on Wealden.
Ononis repens (Rest Harrow). H. Frequent on Wealden.
O. spinosa (Upright Rest Harrow). H. Not common.
Medicago sativa (Lucern). H. Naturalized in several places.
M. lupulina (Black Medick, Nonsuch). H.
Melilotus alba (White Melilot). H. Very rare.
M. officinalis (arvensis) (Common Melilot). H. Not uncommon in this district.
Trifolium subterraneum (Subterranean Clover). H. Rare.
T. pratense (Purple Clover). H.
T. medium (Zigzag Clover). Not common.
T. incarnatum (Crimson Clover). H.
T. arvense (Hare's foot Clover). H.
T. striatum (Soft-knotted Clover). H. Rare.

- T. hybridum* (Alsike Clover). H. Escape from cultivation.
T. repens (White or Dutch Clover). H.
T. agrarium. A rare casual.
T. procumbens (Hop Trefoil). H.
T. dubium (Lesser Yellow Trefoil). H.
T. filiforme (Slender Yellow Trefoil). H. Rather rare.
Lotus corniculatus (Birds'-foot Trefoil). H.
L. tenuis (Slender Bird's-foot Trefoil). H. Rare.
L. uliginosus (Marsh Bird's-foot Trefoil). H.
L. hispidus (Hairy Trefoil). H. In one locality only.
L. siliquosus. A rare casual.
Ornithopus perpusillus (Common Bird's-foot). H. In sandy places.
Onobrychis viciæfolia (sativa) (Sainfoin). H. Doubtfully native.
Vicia hirsuta (Hairy Tare). H.
V. tetrasperma (gemella) (Slender Tare). H. Rare on sand, not uncommon on Wealden.
V. Cracca (Tufted Vetch). H.
V. sepium (Bush Vetch). H.
V. sativa (Cultivated Vetch). H. Escape from cultivation.
V. angustifolia (Common Vetch).
V. lathyroides (Spring Vetch). H. Rare.
Lathyrus pratensis (Meadow Vetchling). H. Common on sand.
L. Aphaca (Yellow Vetchling). H. Garden casual.
L. Nissolia (Grass Vetchling). H. Rare.
L. (Orobus) montanus (Tuberous Pea). H. Common on Wealden.

ROSACEÆ.

- Prunus spinosa* (Blackthorn, Sloe). H.
P. insititia (Bullace). H. Not common.
P. avium (Wild Cherry). H. Local.
P. Cerasus (Morello Cherry). Rare.
P. Padus (Bird Cherry). H. Rare.
Spiræa salicifolia (Willow-leaved Spiræa). H. Escape.
S. ulmaria (Meadow-sweet). H.
Rubus Idæus (Raspberry). H. Very abundant.
R. plicatus. H. Frequent.
R. integrifolius. H. Woolmer Forest borders.
R. holerythros. Uncommon.
R. lindleianus. H. Blackdown.
R. erythrinus. Blackdown.
R. rhamnifolius. H. Uncommon.
R. pulcherrimus. H. Uncommon.

- Rubus Selmeri*. Woolmer Forest borders.
R. rhombifolius. H. Woolmer Forest borders.
R. leucandrus. H. Rare.
R. argentatus. H. Var. *robustus*. Liphook.
R. micans. Blackdown.
R. rusticanus (discolor). H. Very common.
R. Colemanni. Liphook.
R. pyramidalis. H. Woolmer Forest borders.
R. Babingtonii. H. Lynchmere and Shottermill.
R. pallidus. H. Var. *leptopetalus*. Uncommon.
R. foliosus. H. Uncommon.
R. virescens, var. *infecundus*. H. Blackdown.
R. rosaceus, var. *pallidiformis*. Common locally.
R. Koehleri. H. Liphook and Woolmer Forest.
R. Marshalli. Abundant.
R. serpens. Borders of Woolmer Forest.
R. tuberculatus. H. Rare.
R. corylifolius. H. Common. The var. *sublustris* occurs at Lynchmere and Blackdown.
R. laciniatus. H. An occasional escape from cultivation.
R. cæsius (Dewberry). H.
Geum urbanum (Herb Bennet). H.
Fragaria vesca (Wood Strawberry). H.
Potentilla sterilis (Fragariastrum) (Strawberry-leaved Cinquefoil). H.
P. erecta (Tormentil). H.
P. procumbens (Creeping Tormentil). H. More on Wealden than on sand.
P. reptans (Creeping Cinquefoil). H.
P. Anserina (Silverweed). H. Frequent.
P. argentea (Hoary Cinquefoil). H. Rather common.
P. palustris (Marsh Cinquefoil). H. Rare.
P. canescens (Grey Cinquefoil). H. A not uncommon casual.
Alchemilla arvensis (Parsley Piert). H.
A. vulgaris (Lady's Mantle). H. Very rare.
Agrimonia Eupatoria (Agrimony). H.
A. odorata (Glandular-leaved Agrimony). H. Uncommon.
Rosa tomentosa (Downy-leaved Rose). H. Rare.
R. eglanteria (rubiginosa) (Sweetbriar). H. Not common.
R. micrantha (Small-flowered Sweetbriar). H. Uncommon.
R. canina (Dog Rose). H. The vars. *lutetiana*, *dumalis*, *urbica*, *arvatica* and *spherica* have been recorded.
R. stylosa (Close-styled Rose). Local, on clay.
R. arvensis (Trailing Rose). H.

- Pyrus Aria* (Whitebeam). H. Frequent on Greensand.
P. intermedia. Rare. Probably planted.
P. Aucuparia (Mountain Ash). H. Common on Greensand.
P. communis (Wild Pear). H. Probably planted.
P. Malus (Crab Apple). H. Not uncommon.
Amelanchier canadensis (*Oxyacanthoides*). Naturalized in
 copses.
Crataegus Oxyacantha (Glabrous Hawthorn). H. Uncom-
 mon.
C. monogyna (Common Hawthorn). H. The var. *laciniata*
 is uncommon.

SAXIFRAGACEÆ.

- Saxifraga tridactylites* (Rue-leaved Saxifrage). H. Fre-
 quent.
S. granulata (Meadow Saxifrage). H. Rare.
Chrysosplenium oppositifolium (Golden Saxifrage). H. Com-
 mon on Greensand, frequent on Wealden.
C. alternifolium (Alternate-leaved Golden Saxifrage). H.
 Very rare.
Parnassia palustris (Grass of Parnassus). H. Recorded
 near Haslemere in 1885 or 1886, by Marshall and Beeby.
Ribes grossularia (Wild Gooseberry). H. Not uncommon.
R. rubrum (Red Currant). H. Probably sown by birds.
R. nigrum (Black Currant). H. Rarer than above, also
 bird sown.

CRASSULACEÆ.

- Cotyledon Umbilicus-Veneris* (Navelwort). H. Rare, very
 local.
Sedum Telephium (Orpine, Livelong). H. Not uncommon.
S. album (White Stonecrop). H. Uncommon.
S. acre (Biting Stonecrop). H. Frequent.
S. reflexum (Yellow Stonecrop). H. Naturalized.
Sempervivum tectorum (Houseleek). H. Roofs. Natural-
 ized.

DROSERACEÆ.

- Drosera rotundifolia* (Round-leaved Sundew). H. Common
 in sandy bogs.
D. longifolia (Long-leaved Sundew). H. Less common.

HALORAGACEÆ.

- Myriophyllum spicatum* (Spiked Water Milfoil). H. In ponds.
M. alterniflorum (Alternate Water Milfoil). H. Not uncommon in ponds.
Callitriche palustris (Vernal Water Starwort). H.
C. stagnalis (Large-fruited Starwort).

LYTHRACEÆ.

- Peplis Portula* (Water-Purslane). H. Frequent.
Lythrum Salicaria (Purple Loosestrife). H.

ONAGRACEÆ.

- Epilobium angustifolium* (Rosebay Willow Herb). H. Very common on Greensand.
E. hirsutum (Great hairy Willow Herb). H.
E. parviflorum (Small-flowered hairy Willow Herb). H.
E. montanum (Broad-leaved Willow Herb). H.
E. lanceolatum (Spear-leaved Willow Herb). Very rare.
E. roseum (Pale smooth-leaved Willow Herb). Local.
E. tetragonum (Long-podded square-stalked Willow Herb). H. Frequent on Wealden.
E. obscurum (Short-podded square-stalked Willow Herb). H. In boggy places. × *parviflorum*. H. Uncommon.
E. Lamyi (Lanceolate-leaved square-stalked Willow Herb). Locally abundant.
E. palustre (Narrow-leaved Willow Herb). H. Very common, rare on Wealden.
Oenothera biennis (Common Evening Primrose). H. Escape.
Circœa lutetiana (Enchanter's Nightshade). H. Not uncommon.

CUCURBITACEÆ.

- Bryonia dioica* (Red-berried Bryony). H.

UMBELLIFERÆ.

- Hydrocotyle vulgaris* (Marsh Pennywort). H.
Sanicula europœa (Wood Sanicle). H. Fairly common.
Conium maculatum (Hemlock). H. Not abundant, but generally distributed.
Bupleurum rotundifolium (Thorough-wax). H. Garden casual.
Apium nodiflorum (Procumbent Marshwort). H.
A. inundatum (Least Marshwort). H. In Greensand pools.

- Sison Amomum* (Bastard Stone Parsley). H. Frequent on Greensand.
- Ægopodium Podagraria* (Gout-weed). H.
- Pimpinella Saxifraga* (Burnet Saxifrage). H. Frequent.
- Conopodium majus* (*denudatum*) (Pignut, Earthnut). H.
- Chærophillum temulum* (Rough Chervil). H.
- Scandix Pecten-Veneris* (Shepherd's Needle, Venus' Comb).
H. Locally abundant.
- Anthriscus sylvestris* (Cow Parsley). H.
- Fœniculum vulgare* (Fennel). H. Very rare, garden escape.
- Cenanthe fistulosa* (Water Dropwort). H. Not common.
- C. crocata* (Hemlock, Water Dropwort). H. Very poisonous.
- Æthusa Cynapium* (Fool's Parsley). H.
- Silaus flavescens* (Sulphur-wort). H. Uncommon.
- Angelica sylvestris* (Wild Angelica). H.
- Peucedanum* (*Pastinaca*) *sativum* (Wild Parsnip). H.
- Heracleum Sphondylium* (Hog-weed). H.
- H. giganteum* (Giant Hog-weed). Occasionally as a garden escape.
- Daucus Carota* (Wild Carrot). H.
- Caucalis arvensis* (Spreading Hedge Parsley). Only once recorded.
- C. Anthriscus* (Upright Hedge Parsley). H.

ARALIACEÆ.

- Hedera Helix* (Ivy). H.

CAPRIFOLIACEÆ.

- Adoxa Moschatellina* (Moschatel). H. Abundant on sand, less so on clay.
- Sambucus nigra* (Elder). H. Var. *laciniata*, one record. H.
- Viburnum Opulus* (Guelder Rose). H. Rather frequent.
- Lonicera Periclymenum* (Honeysuckle). H.

RUBIACEÆ.

- Galium Cruciata* (Crosswort). H. Local.
- G. verum* (Yellow Bedstraw). H. Frequent.
- G. Mollugo* (Great Hedge Bedstraw). H. Common on Wealden.
- G. saxatile* (Smooth Heath Bedstraw). H. Common on Greensand.

- Galium palustre* (Smooth Marsh Bedstraw). H.
G. uliginosum (Rough Marsh Bedstraw). H. Uncommon.
G. Aparine (Goose-grass, Cleavers). H.
Asperula odorata (Woodruff). H. Locally frequent.
Sherardia arvensis (Blue Field Madder). H. Frequent.

VALERIANACEÆ.

- Valeriana dioica* (Small Marsh Valerian). H. Not common.
V. sambucifolia (Great Wild Valerian). H. Not uncommon.
Valerianella olitoria (Lamb's Lettuce). H. Common on Greensand.
V. dentata (Smooth Corn Salad). H.

DIPSACEÆ.

- Dipsacus sylvestris* (Teasel). H. Not common.
Scabiosa Succisa (Devil's-bit Scabious). H.
S. arvensis (Field Scabious). H.

COMPOSITÆ.

- Eupatorium cannabinum* (Hemp Agrimony). H.
Solidago Virgaurea (Golden Rod). H.
S. lanceolata (American Gold Rod). H. A casual alien, 1908.
Bellis perennis (Daisy). H.
Erigeron canadense (Canadian Fleabane). H. Introduced.
E. acre (Blue Fleabane). H. Not common.
Filago germanica (Cudweed). H.
F. apiculata (Purple-tipped Cudweed). Plentiful in sandy fields.
F. minima (Least Cudweed). H. Not uncommon.
Gnaphalium uliginosum (Marsh Cudweed). H. Damp sandy places.
G. sylvaticum (Upright Cudweed). H. Locally abundant.
Pulicaria dysenterica (Fleabane). H.
Bidens cernua (Nodding Bur-marigold). H. Fairly common.
B. tripartita (Trifid Bur-marigold). H. Local.
Achillea Millefolium (Yarrow). H.
A. Ptarmica (Sneezewort). H. Less frequent on Sand than on Wealden.
Anthemis Cotula (Stinking Chamomile). H.
A. arvensis (Corn Chamomile). H. Frequent on Sand.
A. nobilis (Common Chamomile). H. Not uncommon.

- Chrysanthemum segetum* (Corn Marigold). H. Locally abundant.
- C. Leucanthemum* (Ox-eye, Moon Daisy). H.
- C. Parthenium* (Feverfew). H. Not common, probably an escape.
- Matricaria inodora* (Scentless Mayweed). H.
- M. Chamomilla* (Wild Chamomile). H.
- M. suaveolens* (=discoidea) (Rayless Chamomile). H.
A frequent casual since 1915.
- Tanacetum vulgare* (Tansy). H. Local.
- Artemisia vulgaris* (Wormwood, Mugwort). H. Frequent.
- Tussilago Farfara* (Coltsfoot). H.
- Petasites fragrans* (Sweet-scented Butterbur). H. Not native.
- P. ovatus* (*officinalis*) (Butterbur). H. Locally frequent.
- Senecio vulgaris* (Groundsel). H.
- S. sylvaticus* (Mountain Groundsel). H. Not uncommon.
- S. erucifolius* (Hoary Ragwort). H. Uncommon.
- S. Jacobæa* (Common Ragwort). H.
- S. aquatica* (Marsh Ragwort). H.
- Carlina vulgaris* (Carline Thistle). H. Frequent on Greensand heaths.
- Arctium majus* (*Lappa*) (Greater Burdock). H. Rare.
- A. minus* (Lesser Burdock). H.
- Carduus nutans* (Musk Thistle). H. Frequent.
- C. crispus* (Wetted Thistle). Frequent. The var. *acanthoides* is rare.
- Cnicus lanceolatus* (Spear Thistle). H.
- C. palustris* (Marsh Thistle). H.
- C. pratensis* (Meadow Thistle). H. Frequent, in bogs.
- C. acaulis* (Dwarf Thistle). H. Frequent.
- C. arvensis* (Creeping Thistle). H.
- Onopordum Acanthium* (Cotton Thistle). Rare, on clay.
- Serratula tinctoria* (Saw-wort). H. Not uncommon.
- Centaurea nigra* (Black Knapweed). H.
- C. Scabiosa* (Great Knapweed). H. Frequent.
- C. Cyanus* (Corn Bluebottle). H. Not common.
- Cichorium Intybus* (Succory, Chicory). H. Rare.
- Arnoseris minima* (Dwarf Nipplewort, Swine's Succory). H.
Rare.
- Lapsana communis* (Common Nipplewort). H.
- Crepis taraxacifolia* (Dandelion-leaved Hawk's-beard). H.
Uncommon.
- C. setosa* (Bristly Hawksbeard). Very rare, one record.
- C. capillaris* (Smooth Hawksbeard). H.
- C. nicænsis*. H. Very rare.
- C. biennis* (Rough Hawksbeard). H. Very rare.

- Hieracium Pilosella* (Mouse-ear Hawkweed). H.
H. aurantiacum (Orange Hawkweed). H. Probably always as a garden escape.
H. sylvaticum (*murorum*) (Wood Hawkweed). H. Not common.
H. surrejanum. Type only at Hindhead (Townsend). The var. *megalodon* near Witley (Townsend).
H. vulgatum (Common Hawkweed). H. Not common, but generally distributed.
H. tridentatum (Three-toothed Hawkweed). H.
H. sabaudum var. *boreale* (Broad-leaved Hawkweed). H. Common on sand.
H. umbellatum (Narrow-leaved Hawkweed). H. Frequent on sand.
Hypochæris glabra (Smooth Cat's-ear). Local, in sandy fields.
H. radicata (Long-rooted Cat's-ear). H. Very abundant.
Leontodon nudicaule (Hairy Hawkbit) H. Locally frequent
L. hispidum (Rough Hawkbit). H.
L. autumnale (Autumnal Hawkbit). H.
Taraxacum officinale (Dandelion). H.
Lactuca muralis (Ivy-leaved Lettuce) H. Not uncommon on the sand.
Sonchus oleraceus (Smooth Sow-thistle). H.
S. asper (Rough Sow-thistle). H.
S. arvensis (Corn Sow-thistle). H.
Tragopogon pratense (Yellow Goat's-beard, Jack-go-to-bed-at-noon). H. Uncommon.

CAMPANULACEÆ.

- Jasione montana* (Sheep's-bit). H. Not uncommon.
Wahlenbergia (*Campanula*) *hederacea* (Ivy-leaved Bell-flower). H. Uncommon.
Campanula Trachelium (Nettle-leaved Bell-flower). H. Rare.
Campanula latifolia (Giant Bell-flower). H. Rare.
C. rapunculoides (Creeping Bell-flower). H. Very rare.
C. rotundifolia (Hairbell). H.
C. patula (Spreading Bell-flower). H. Rare.

VACCINIACEÆ.

- Vaccinium Myrtillus* (Whortleberry). H. Very abundant on sandy heaths.

ERICACEÆ.

- Calluna vulgaris* (Ling). H. Var. *glabrescens*. H. Locally frequent.
Erica Tetralix (Cross-leaved Heath). H. Often with white flowers. Very abundant after heath fires.
E. cinerea (Fine-leaved Heath). H.
Pyrola minor (Lesser Winter-green). H. Very rare.

MONOTROPACEÆ.

- Monotropa Hypopitys* (Yellow Bird's Nest). H. Rare.

PRIMULACEÆ.

- Primula vulgaris* (Primrose). H.
P. veris (Cowslip). H. Rare, except on clay. The so-called "Oxlip" (*vulgaris* × *veris*) is rare. H.
Lysimachia vulgaris (Great Yellow Loosestrife). H. Locally abundant.
L. Nummularia (Creeping Loosestrife, Moneywort). H. Local.
L. nemorum (Wood Loosestrife, Yellow Pimpernel). H. Not uncommon.
Anagallis arvensis (Scarlet Pimpernel). H. The var. *phœnicia* is rare.
A. fœmina (cœrulea) (Blue Pimpernel). H. Rare.
A. tenella (Bog Pimpernel). H. Abundant in bogs.
Centunculus minimus (Bastard Pimpernel). H. Rare.

OLEACEÆ.

- Fraxinus excelsior* (Ash). H.
Ligustrum vulgare (Privet). H.

APOCYNACEÆ.

- Vinca major* (Great Periwinkle). H. Occasional, naturalized.
V. minor (Lesser Periwinkle). H. Not uncommon. Rarely with white flowers. A double-flowered form has been recorded.

GENTIANACEÆ.

- Blackstonia perfoliata* (Yellow Centaury). H. Rare.
Centaurium umbellatum (Erythrœa Centaurium) (Common Centaury). H. Locally abundant.
C. pulchellum (Dwarf Centaury). H. Very rare.
Menyanthes trifoliata (Buckbean). H. Becoming rare.

POLEMONIACEÆ.

Polemonium caeruleum (Jacob's Ladder). H. An uncommon casual.

BORAGINACEÆ.

Cynoglossum officinale (Hound's-tongue). H. Very rare.
Symphytum officinale (Comfrey). H. Not common.
Borago officinalis (Borage). H. A rare casual.
Anchusa officinalis (Alkanet). H. Rare. Introduced.
Lycopsis arvensis (Small Bugloss). H. Common on Greensand.
Myosotis cœspitosa (Tufted Water Forget-me-not). H.
M. scorpioides (*palustris*) (Great Forget-me-not). H.
M. repens (Creeping Water Forget-me-not). H. Local.
M. sylvatica (Wood Forget-me-not). H. Very rare.
M. arvensis (Field Forget-me-not). H.
M. collina (Dwarf Forget-me-not). H.
M. versicolor (Yellow-and-Blue Forget-me-not). H.
Lithospermum officinale (Common Gromwell). H. Rare.
L. arvense (Corn Gromwell). H. Rare.
Echium vulgare (Viper's Bugloss). H. Locally abundant.
Amsinckia lycopsoides. H. A rare casual.

CONVOLVULACEÆ.

Calystegia (*Convolvulus*) *sepium* (Small Bindweed). H.
Convolvulus arvensis (Great Bindweed). H.
Cuscuta Epithymum (Lesser Dodder). H. Abundant.
C. Trifolii (Clover Dodder). H. Parasitic on clover, local.

SOLANACEÆ.

Solanum Dulcamara (Woody Nightshade). H.
S. nigrum (Black Nightshade). H. Rather frequent.
Atropa Belladonna (Deadly Nightshade). H. Rare.
Datura Stramonium (Thorn Apple). H. A rare casual.
Hyoscyamus niger (Henbane). H. Very rare.

SCROPHULARIACEÆ.

Verbascum Thapsus (Great Mullein). H. Fairly common.
V. nigrum (Dark Mullein). H. Not uncommon on Greensand.

- Linaria Cymbalaria* (Ivy-leaved Toadflax). H. Naturalized.
L. Elatine (Sharp-leaved Toadflax, Fluellin). H. Local.
L. spuria (Round-leaved Toadflax). H. Rare.
L. vulgaris (Yellow Toadflax). H.
L. minor (Least Toadflax). H. Rare.
L. repens (Pale Toadflax). H. Naturalized.
Antirrhinum Orontium (Lesser Snapdragon). H. On cultivated sandy ground.
Scrophularia aquatica (Water Figwort). H.
S. nodosa (Knotted Figwort). H.
Mimulus Langsdorffii (*luteus*) (Monkey-flower). H. Naturalized in several places.
Digitalis purpurea (Foxglove). H. Especially abundant in copses on the Greensand.
Veronica hederæfolia (Ivy-leaved Speedwell). H.
V. didyma (*polita*) (Grey Procumbent Speedwell). Cultivated and waste ground.
V. agrestis (Green Procumbent Speedwell). H.
V. Tournefortii (*Buxbaumii*) (Buxbaum's Speedwell). H. Introduced.
V. triphyllos (Fingered Speedwell). Very rare.
V. arvensis (Wall Speedwell). H.
V. serpyllifolia (Thyme-leaved Speedwell). H.
V. acinifolia (Scimitar-leaved Speedwell). Very rare.
V. officinalis (Common Speedwell). H.
V. Chamædrys (Germander Speedwell). H.
V. montana (Mountain Speedwell). H. Not common.
V. scutellata (Marsh Speedwell). H. Fairly common.
V. Anagallis-aquatica (Water Speedwell). H. Very local.
V. Beccabunga (Brooklime). H.
Euphrasia officinalis (Eyebright). H.
Bartsia odontites (Red Bartsia). H. Frequent on Atherfield Clay.
Pedicularis palustris (Marsh Lousewort). H. Frequent.
P. sylvatica (Field Lousewort). H. Frequent.
Rhinanthus Crista-galli (Yellow Rattle). H.
Melampyrum pratense (Cow-wheat). H. Very common on Greensand.

OROBANCHACEÆ.

- Orobanche major* (Great Broomrape). H. Uncommon.
O. minor (Least Broomrape). H. Not uncommon on Greensand.

LENTIBULARIACEÆ.

- Utricularia minor* (Lesser Bladderwort). H. Very rare.

VERBENACEÆ.

Verbena officinalis (Common Vervain). H. Locally frequent.

LABIATÆ.

- Mentha rotundifolia* (Round-leaved Mint). H. Very rare.
M. alopecuroides (Broad-leaved Horse Mint). H. Rare.
M. aquatica (hirsuta) (Capitate Mint). H.
M. rubra (Red Mint). H. Rare.
M. gentilis (sativa) Marsh Whorled Mint). H. Uncommon.
M. arvensis (Corn Mint). H. Cultivated ground.
Lycopus europæus (Gipsywort, Water Horehound). H.
Origanum vulgare (Marjoram). H. On railway banks, probably introduced with chalk ballast.
Thymus Serpyllum (Wild Thyme). M.
Clinopodium vulgare (Wild Basil). H. Frequent on the Greensand.
Calamintha Acinos (Basil Thyme). H. Local in sandy places.
C. montana (officinalis) (Common Calamint). H. Rare.
Melissa officinalis (Common Balm). H. Occasionally naturalized.
Nepeta Cataria (Catmint). H. Rare.
N. hederacea (Glechoma) (Ground Ivy). H.
Scutellaria galericulata (Common Skullcap). H. More common on sand than on Wealden.
S. minor (Lesser Skullcap). H. Frequent on Greensand.
Prunella vulgaris (Self-heal). H.
Marrubium vulgare (White Horehound). H. Very rare.
Stachys officinalis (Betonica) (Wood Betony). H.
S. palustris (Marsh Woundwort). H.
S. sylvatica (Hedge Woundwort). H.
S. arvensis (Corn Woundwort.) H. Not common.
Galeopsis Ladanum (Red Hemp-nettle). H. Frequent.
G. Tetrahit (Common Hemp-nettle). H. Sometimes with white flowers (=var. *nigricans*).
Lamium amplexicaule (Henbit Dead-nettle). H. Frequent on the sand.
L. purpureum (Red Dead-nettle). H.
L. album (White Dead-nettle). H.
L. Galeobdolon (Yellow Archangel). H. Locally on the Wealden.
Ballota nigra (Black Horehound). H. Not uncommon.
Teucrium Scorodonia (Wood-sage). H. Common on heaths.
Ajuga reptans (Bugle). H.

PLANTAGINACEÆ.

- Plantago major* (Greater Plantain). H.
P. media (Hoary Plantain). H. Rare in this district.
P. lanceolata (Ribwort Plantain). H. A monstrous form
 with three spikes on a long scape sometimes occurs.
P. Coronopus (Buck's-horn Plantain). H. Not common.
Littorella uniflora (Plantain Shoreweed). H. Rare.

ILLECEBRACEÆ.

- Scleranthus annuus* (Knawel). H.

AMARANTHACEÆ.

- Amaranthus Blitum* (Strawberry Blite). A rare casual.

CHENOPODIACEÆ.

- Chenopodium polyspermum* (Many-seeded Goosefoot). H.
 Uncommon.
C. album (White Goosefoot). H.
C. rubrum (Red Goosefoot). Very rare.
C. Bonus-Henricus (Good King Henry). H. Uncommon.
Atriplex patula (Narrow-leaved Orache). H.
A. hastata (Hastate-leaved Orache). Uncommon.
A. deltoidea (Triangular-leaved Orache). H. Not uncommon.

POLYGONACEÆ.

- Polygonum Convolvulus* (Black Bindweed). H. The var.
subalatum is not uncommon.
P. aviculare (Common Knotgrass). H. Very variable.
 The var. *rurivagum* is frequent.
P. Hydropiper (Biting Persicaria). H. Especially on
 Wealden.
P. minus (Creeping Persicaria). H. Rare.
P. Persicaria (Spotted Persicaria). H.
P. amphibium (Amphibious Buckwheat). H. Frequent.
P. lapathifolium (Pale-flowered Persicaria). H. Not un-
 common.
P. Bistorta (Bistort, Snakeweed). H. Not common.
Fagopyrum sagittatum (*esculentum*) (Buckwheat). H.
 A casual, found near game coverts.

- Rumex conglomeratus* (Sharp Dock). H.
R. sanguineus (Red-veined Dock). H. The var. *viridis* is the common form in this district.
R. obtusifolius (Broad-leaved Dock). H.
R. crispus (Curled Dock). H.
R. Acetosa (Common Sorrel). H.
R. Acetosella (Sheep's Sorrel). H.

LORANTHACEÆ.

- Viscum album* (Mistletoe). H. Rare. Recorded as occurring on *Quercus pedunculata*.

EUPHORBIACEÆ.

- Euphorbia Helioscopia* (Sun Spurge). H. Fairly common.
E. platyphyllos (Broad-leaved Spurge). Rare.
E. amygdaloides (Wood Spurge). H. Frequent on clay.
E. Peplus (Petty Spurge). H.
E. exigua (Dwarf Spurge). H. Cultivated and waste ground.
E. Lathyris (Caper Spurge). H. An occasional casual.
Mercurialis perennis (Dog's Mercury). H.
M. annua (Annual Mercury). H. Very uncommon.

URTICACEÆ.

- Ulmus glabra* (*montana*) (Wych Elm). H. Not very frequent.
U. campestris (Common Elm). H. Not common on Greensand.
Humulus Lupulus (Hop). H. Frequent.
Urtica dioica (Great Nettle). H.
U. urens (Small Nettle). H.
Parietaria ramiflora (Wall Pellitory). H. Not common.

CUPULIFERÆ.

- Betula alba* (Birch). H. Extremely common on Greensand.
Alnus rotundifolia (*glutinosa*) (Alder). H.
Carpinus Betulus (Hornbeam). H. Rare.
Corylus Avellana (Hazel). H.
Quercus Robur. H. Very common. The var. *pedunculata* is abundant on Wealden; *sessilifolia* on the sand.
Castanea Sativa (Spanish Chestnut). H. Not native, much grown in copses.
Fagus sylvatica (Beech). H. Frequent on Greensand.

SALICACEÆ.

- Salix fragilis* (Crack Willow). H.
S. alba (White Willow). H. Probably always planted.
S. purpurea (Purple Willow). H. Local.
S. Viminalis (Osier).
S. caprea (Sallow). H.
S. aurita (Round-eared Willow). H.
S. cinerea (Grey Sallow). H.
S. repens (Creeping Willow). H. On sandy heaths.
Populus alba (White Poplar). H. Not native. × *tremula*
 (*canescens*) is not uncommon.
P. tremula (Aspen). H. Frequent.
P. nigra (Black Poplar). H. Not native.

CONIFERÆ.

- Taxus baccata* (Yew). H. Apparently indigenous in our district.
Pinus sylvestris (Scots Pine). H. Naturalized.

HYROCHARIDÆÆ.

- Elodea* (*Anacharis*) *canadensis* (American Water-weed). H.

ORCHIDACEÆ.

- Neottia Nidus-avis* (Bird's-nest Orchis). H. Not common, but widely distributed in the Weald.
Listera ovata (Tway-blade). H. Frequent in some localities on the clay.
Spiranthes spiralis (Lady's Tresses). H. Rare.
Helleborine (*Epipactis*) *latifolia* (Broad-leaved Helleborine). H. Thinly but generally distributed. The var. *media* (Narrow-leaved Helleborine) is frequent. H.
H. longifolia (*palustris*) (Marsh Helleborine). H. Rare.
Orchis morio (Green-winged Meadow Orchis). H. Not uncommon, rarely white.
O. mascula (Early Purple Orchis). H. Becoming less abundant, rarely white.
O. prætermissa (Marsh Orchis). H. Uncommon.
O. incarnata (Flesh-coloured Marsh Orchis). H. Rare.
O. latifolia (Broad-leaved Marsh Orchis). H. Uncommon.
O. maculata (Spotted Palmate Orchis). H. Very plentiful.
Ophrys apifera (Bee Orchis). On railway banks.
Habernaria bifolia (Lesser Butterfly Orchis). H. Rare.
H. virescens (*chloroleuca*) (Greater Butterfly Orchis). H. Rare.

IRIDACEÆ.

Iris Pseudacorus (Yellow Flag). H. Not very common.

AMARYLLIDACEÆ.

Narcissus Pseudo-Narcissus (Daffodil). H. Locally plentiful in meadows on Wealden.

Galanthus nivalis (Snowdrop). H. Rare, and doubtfully native.

DIOSCOREACEÆ.

Tamus communis (Black Bryony). H.

LILIACEÆ.

Ruscus aculeatus (Butcher's Broom). H. Rare.

Polygonatum multiflorum (Solomon's Seal). H. Rare, except where planted.

Convallaria majalis (Lily-of-the-Valley). H. Naturalised in one locality.

Scilla non-scripta (*nutans*) (Bluebell). H. Plentiful, sometimes white.

Fritillaria Meleagris (Snake's Head). H. Very rare.

Narthecium ossifragum (Bog Asphodel). H. Plentiful in places.

JUNCACEÆ.

Juncus bufonius (Toad Rush). H. Frequent.

J. squarrosus (Heath Rush). H. Abundant on wet moors.

J. inflexus (*glaucus*) (Hard Rush). H. Very common on clay, frequent on Greensand.

J. effusus (Soft Rush). H. More frequent on Wealden than on Greensand. × *inflexus* (*diffusus*). H. Uncommon.

J. conglomeratus (Common Rush). H.

J. bulbosus (*supinus*) (Lesser Bog Rush). H. Plentiful.

J. articulatus (*lampocarpus*) (Shining-fruited Rush). H. Less common.

J. sylvaticus (*acutiflorus*) (Sharp-flowered Rush). H.

Luzula Forsteri (Narrow-leaved Hairy Wood Rush). H. Frequent.

L. pilosa (*vernalis*) (Broad-leaved Hairy Wood Rush). H.

Luzula sylvatica (*maxima*) (Great Wood Rush). H. Sandy places.

L. campestris (Field Wood Rush). H.

L. multiflora (*erecta*) (Many-headed Wood Rush). H.

TYPHACEÆ.

- Typha latifolia* (Great Reed-mace). H. Frequent.
T. angustifolia (Lesser Reed-mace). H. Local.
Sparganium erectum (*ramosum*) (Branched Bur-reed). H.
S. neglectum (Beeby's Bur-reed). Several localities.
S. simplex (Unbranched Bur-reed). Less common.

ARACEÆ.

- Arum maculatum* (Cuckoo-pint). H.
Acorus Calamus (Sweet Flag). H. Rare.

LEMNACEÆ.

- Lemna trisulca* (Ivy-leaved Duck-weed). Rare.
L. minor (Lesser Duck-weed). Very common.
L. gibba (Gibbous Duck-weed). H. Rare.

ALISMACEÆ.

- Alisma Plantago-aquatica* (Great Water Plantain). H.
A. ranunculoides (Lesser Water Plantain). H. Very rare.
Sagittariâ sagittifolia (Arrow-head). H. Not common.
Damasonium Alisma (*stellatum*) (Star-fruit). H. Very rare.

NAIADACEÆ.

- Triglochin palustre* (Marsh Arrow-grass). H. Rare.
Potamogeton natans (Floating Pond-weed). H. Not un-
 common.
P. polygonifolius (Oblong-leaved Pond-weed). H. Common
 in ponds on Greensand.
P. lucens (Great Pond-weed). H. Locally common.
P. perfoliatus (Perfoliate Pond-weed). Abundant in Wey.
P. crispus (Curled Pond-weed). Streams on Greensand.
Zannichellia palustris (Horned Pond-weed). H.

CYPERACEÆ.

- Eleocharis palustris* (Marsh Club Rush). Common in bogs.
 H.
E. multicaulis (Many-stemmed Club Rush). Frequent on
 wet heaths.
Scirpus pauciflorus (Chocolate-headed Club Rush). Boggy
 moors.
S. cœspitosus (Tufted Club Rush). H. Common on moors.

- Scirpus fluitans* (Floating Club Rush). H. Not common.
S. setaceus (Bristle-stalked Club Rush). H. Frequent.
S. lacustris (Common Bulrush). Frequent.
S. sylvaticus (Wood Club Rush). H. Not infrequent.
S. compressus (caricis) (Compressed Bog Rush). H. Rare.
Eriophorum vaginatum (Hare's-tail Cotton-grass). H. Not uncommon.
E. angustifolium (Narrow-leaved Cotton-grass). H. Frequent in bogs.
Rhynchospora fusca (Brown-headed Beak Sedge). H. One record.
R. alba (White Beak Sedge). H. Rather frequent.
Carex pulicaris (Flea Sedge). H. Not uncommon in bogs.
C. arenaria (Sea Sedge). H. Rare.
C. paniculata (Greater Panicked Sedge). H. Very general on Greensand.
C. vulpina (Great Sedge). H. Rare.
C. muricata (Greater Prickly Sedge). H. Frequent.
C. divulsa (Grey Sedge). H. Not common.
C. echinata (Little Prickly Sedge). H. Common throughout the district.
C. remota (Distant Spiked Sedge). H. Abundant in places.
C. leporina (Oval Spiked Sedge). H. Not uncommon.
C. Goodenowii (Common Sedge). H. Common in Greensand marshes.
C. flacca (Glaucous Heath Sedge). H. Common, very variable.
C. pilulifera (Round-headed Sedge). H. In wet heaths.
C. caryophyllea (verna) (Vernal Sedge). H.
C. pallescens (Pale Sedge). H. Fairly frequent.
C. panicea (Pink-leaved Sedge). H.
C. pendula (Great Pendulous Sedge). H. Not common.
C. sylvatica (Pendulous Wood Sedge). H. Abundant on Wealden.
C. helodes (laevigata) (Smooth-stalked Beaked Sedge). H. not common.
C. binervis (Green-ribbed Sedge). H. Not uncommon.
C. flava (Yellow Sedge). H. In bogs.
C. oederi. Var. *oedocarpa*. H. Not uncommon.
C. hirta (Hammer Sedge). H. Damp woods.
C. acutiformis (paludosa) (Lesser Pond Sedge). H. Common on sand.
C. riparia (Great Pond Sedge). H. Not common.
C. inflata (rostrata) (Slender-beaked Bottle Sedge). H. Common in Greensand bogs.
C. vesicaria (Short-spiked Bladder Sedge). H. Rare.

GRAMINEÆ.

- Panicum Crus-galli* (Cockspur Grass). H. A rare casual.
Setaria viridis (Green Bristle Grass). H. A rare casual.
Phalaris canariensis (Canary Grass). H. Casual.
P. arundinacea (Ribbon Grass). H. Plentiful in wet sandy places.
Anthoxanthum odoratum (Sweet-scented Vernal Grass). H.
Alopecurus myosuroides (agrestis) (Slender Foxtail Grass). H.
A. geniculatus (Floating Foxtail Grass). H. Common in ditches.
A. pratensis (Meadow Foxtail Grass). H.
Milium effusum (Wood Millet Grass). H. Frequent.
Phleum pratense (Timothy or Cat's-tail Grass). H.
P. phleoides (Boehmer's Timothy Grass). H. Very rare.
Agrostis canina (Brown Bent Grass). H.
A. tenuis (vulgaris) (Common Bent Grass). H.
Calamagrostis epigeios (Wood Small Reed). Not common.
Gastridium lendigerum (australe) (Awned Nit Grass). Rare, recorded in 1888.
Apera Spica-venti (Spreading Silky Bent Grass). H. Not common.
Aira caryophyllea (Silvery Hair Grass). H. Frequent on the sand.
A. præcox (Early Hair Grass). Abundant.
Deschampsia (Aira) cæspitosa (Tufted Hair Grass). H.
D. flexuosa (Wave Hair Grass). Common on sand. H.
Holcus mollis (Creeping Soft Grass). H.
H. lanatus (Meadow Soft Grass). H.
Trisetum flavescens (pratense) (Yellow Oat Grass). Common on sand.
Avena fatua (Wild Oat). H. Introduced.
Arrhenatherum elatius (avenaceum) (False Oat Grass). H.
Sieglingia decumbens (Decumbent Heath Grass). H. Fairly common.
Phragmites communis (Common Reed). H. Marshes.
Cynosurus cristatus (Crested Dog's-tail Grass). H.
C. echinatus (Rough Dog's-tail Grass). H. Casual. Rare.
Kœleria gracilis (cristata) (Crested Hair Grass).
Molinia cærulea (varia) (Purple Melic Grass). H.
Catabrosa aquatica (Water Whorl Grass). H. Very rare.
Melica nutans (uniflora) (Wood Melic Grass). H.
Dactylis glomerata (Cock's-foot Grass). H.
Briza media (Common Quaking Grass). H. Not uncommon.
B. minor (Small Quaking Grass). Very rare.

- Poa annua* (Annual Meadow Grass). H.
P. nemoralis (Wood Meadow Grass). H. Rather rare.
P. pratensis (Smooth-stalked Meadow Grass). H.
P. trivialis (Rough Meadow Grass). H.
Glyceria fluitans (Floating Meadow Grass). H.
G. plicata (Folded Floating Meadow Grass). Uncommon.
Festuca rigida (Hard Meadow Grass). H. Not common.
F. Myuros (Wall Fescue Grass). Not common.
F. bromoides (*sciuroides*) (Barren Fescue Grass). H.
 Common in dry sandy places.
F. ovina (Sheep's Fescue Grass). H. Common on the sand.
F. rubra. (Creeping Fescue Grass). H. Generally distributed.
F. elatior (Tall Fescue Grass). H. Not uncommon.
Bromus giganteus (Tall Brome Grass). Abundant on Wealden.
B. ramosus (*asper*) (Rough Brome Grass). H. Generally distributed.
B. sterilis (Barren Brome Grass). H. In dry places.
B. secalinus (Smooth Rye Brome Grass). H. Cornfields.
B. racemosus (Smooth Field Brome Grass). Not common.
B. commutatus (Confused Brome Grass). H. Frequent.
B. hordeaceus (*mollis*) (Soft Brome Grass). Generally distributed.
B. arvensis (Field Brome Grass). H. Casual alien.
B. madritensis. Rare.
Brachypodium sylvaticum (*gracile*) (False Brome Grass). H.
Lolium perenne (Perennial Rye Grass). H.
L. italicum (Italian Rye Grass). H. Casual.
Agropyron repens (Creeping Couch Grass). H.
Nardus stricta (Mat Grass). H. Abundant on commons and heaths.
Hordeum nodosum (*pratense*) (Meadow Barley Grass). H.
 Damp meadows.
H. murinum (Wall Barley Grass). H.

FILICES.

- Pteris aquilina* (Bracken). H.
Blechnum Spicant (Northern Hard Fern). H. On peaty ground.
Asplenium Adiantum-nigrum (Black-stalked Spleenwort).
 H. Rare.
A. viride (Green Spleenwort). H. Rare.
A. Trichomanes (Maidenhair Spleenwort). H. Rare.
A. Ruta-muraria (Wall-rue Spleenwort). H. Rather rare.

- Athyrium Filix-fœmina* (Lady Fern). H. More common on sand than on clay.
- Phyllitis Scolopendrium* (Hart's-tongue). H. Not frequent on sand.
- Polystichum lobatum* (Prickly Shield-fern). H.
- P. angulare* (Angular-leaved Shield-fern). H.
- Lastrea Thelypteris* (Marsh Fern). H. Very rare.
- L. montana* (*Oreopteris*) (Sweet Mountain Fern). H. In several localities.
- L. Filix-mas* (Male Fern). H.
- L. spinulosa* (Prickly-toothed Shield-fern). H. Frequent.
- L. aristata* (*dilatata*) (Broad Shield Fern). H. Common on sand.
- Polypodium vulgare* (Polypody). H. Very common on Greensand.
- Phegopteris polypodioides* (Beech Fern). H. Very rare, one locality.
- Osmunda regalis* (Royal Fern). H. Formerly recorded, now extinct.
- Ophioglossum vulgatum* (Adder's-tongue). H. Uncommon.
- Botrychium Lunaria* (Moonwort). H. Very rare.

EQUISETACEÆ.

- Equisetum maximum* (Great Water Horsetail). H. Frequent.
- E. arvense* (Corn Horsetail). H. Too common.
- E. sylvaticum* var. *capillare* (Wood Horsetail). H. Locally abundant.
- E. palustre* (Marsh Horsetail). H.
- E. limosum* (Water Horsetail). H.

LYCOPODIACEÆ.

- Lycopodium Selago* (Fir Club Moss). H. Very rare.
- L. clavatum* (Common Club Moss). H. Several localities, but rare.
- L. alpinum* (Savin-leaved Club Moss). H. Very rare.

MARSILEACEÆ.

- Pilularia globulifera* (Pilewort). H. Very rare.

CHARACEÆ.

- Chara aspera* (Rough Stonewort). H. Rare.

NOTES.

INDEX TO THE ORDERS.

	PAGE		PAGE
Aceraceæ ...	12	Leguminosæ ...	12
Alismaceæ ...	29	Lemnaceæ ...	29
Amaranthaceæ ...	25	Lentibulariaceæ ...	23
Amaryllidaceæ ...	28	Liliaceæ ...	28
Apocynaceæ ...	21	Linaceæ ...	11
Aquifoliaceæ ...	12	Loranthaceæ ...	26
Araceæ ...	29	Lycopodiaceæ ...	33
Araliaceæ ...	17	Lythraceæ ...	16
Boraginaceæ ...	22	Malvaceæ ...	11
Boraginaceæ ...	22	Marsileaceæ ...	33
Campanulaceæ ...	20	Monotropaceæ ...	21
Caprifoliaceæ ...	17	Naiadaceæ ...	29
Caryophyllaceæ ...	10	Nymphæaceæ ...	7
Celastraceæ ...	12	Oleaceæ ...	21
Characeæ ...	33	Onagraceæ ...	16
Chenopodiaceæ ...	25	Orchidaceæ ...	27
Compositæ ...	18	Orobanchaceæ ...	23
Coniferæ ...	27	Papaveraceæ ...	8
Convolvulaceæ ...	22	Plantaginaceæ ...	25
Crassulaceæ ...	15	Polemoniaceæ ...	22
Cruciferae ...	8	Polygalaceæ ...	9
Cucurbitaceæ ...	16	Polygonaceæ ...	25
Cupuliferæ ...	26	Portulacææ ...	10
Cyperaceæ ...	29	Primulaceæ ...	21
Dioscoreaceæ ...	28	Ranunculaceæ ...	7
Dipsacææ ...	18	Resedaceæ ...	9
Droseraceæ ...	15	Rhamnaceæ ...	12
Elatinaceæ ...	10	Rosaceæ ...	13
Equisetaceæ ...	33	Rubiaceæ ...	17
Ericaceæ ...	21	Salicaceæ ...	27
Euphorbiaceæ ...	26	Saxifragaceæ ...	15
Filices ...	32	Scrophulariaceæ ...	22
Fumariaceæ ...	8	Solanaceæ ...	22
Gentianaceæ ...	21	Tiliaceæ ...	11
Geraniaceæ ...	11	Typhaceæ ...	29
Gramineæ ...	31	Umbelliferæ ...	16
Haloragaceæ ...	16	Urticaceæ ...	26
Hydrocharidææ ...	27	Vacciniaceæ ...	20
Hypericaceæ ...	11	Valerianaceæ ...	18
Illecebraceæ ...	25	Verbenaceæ ...	24
Iridaceæ ...	28	Violaceæ ...	9
Juncaceæ ...	28		
Labiatae ...	24		