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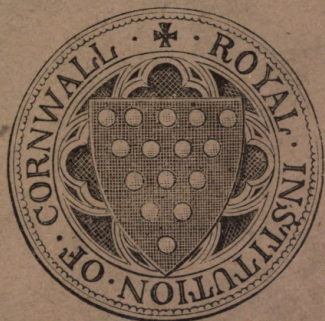




# JOURNAL

OF THE

# Royal Institution of Cornwall.



VOLUME XXI.

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TRURO:

O. BLACKFORD, PRINTER TO M. THE KING AND QUEEN.

1922.

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*F. Hamilton Davey*

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Royal Institution of Cornwall.

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**A SUPPLEMENT**

TO

F. HAMILTON DAVEY'S

**FLORA OF CORNWALL**

BY

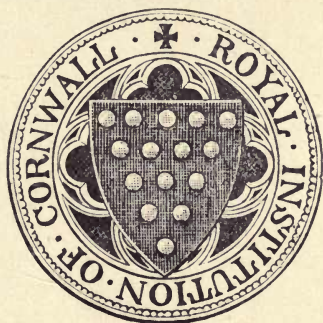
EDGAR THURSTON, C.I.E.,

sometime Superintendent, Madras Government Museum,

AND

CHAMBRÉ C. VIGURS, B.A., M.D. Cantab.

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TRURO :

OSCAR BLACKFORD, ROYAL PRINTERIES.

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SEP 26 1973



## INTRODUCTION.

The *Flora of Cornwall* was published in 1909. Additions thereto, by Mr. F. H. Davey and Dr. C. C. Vigurs respectively, issued in the *Journal of the Royal Institution of Cornwall*, 1911 and 1913, are incorporated in the present Supplement.

Analysis of the additions to the *Flora* since 1909 yields the following results:—

A.—Species recorded in the <i>Flora</i> as doubtful or an error, and now included ... ..	9
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The species recorded in the *Flora* as doubtful or an error, and now included, are:—*Isatis tinctoria*, Linn; *Silene conica*, Linn; *Arenaria tenuifolia*, Linn; *Medicago minima*, Desr; *Senecio squalidus*, Linn; *Chenopodium glaucum*, Linn; *Euphorbia Esula*, Linn; *Malaxis paludosa*, Sw; and *Nitella gracilis*, Agardh.

The British species not recorded in the *Flora* are:—*Thalictrum dunense*, Dum; *Fumaria major*, Badarro (*paradoxa*, Pugsley); *Fumaria neglecta*, Pugsley; *Viola epipsila*, Led; *Dianthus deltoides*, Linn; *Rubus Scheutzii*, Lindeb; *Pyrus intermedia*, Ehrh; *Hieracium Peleterianum*, Mérat; *Hieracium silvaticum*, W. & N.; *Verbascum pulverulentum*, Vill; *Veronica triphyllos*, Linn; *Euphrasia Kernerii*, Wettst; *Euphrasia stricta*,



Host; *Euphrasia confusa*, Pugsley; *Ajuga pyramidalis*, Linn; *Salicornia appressa*, Dum; *Sagittaria sagittifolia*, Linn; *Agrostis verticillata*, Vill; *Mibora minima*, Desv; *Poa palustris*, Linn; *Atropis festuciformis*, Richt; *Isoetes hystrix*, Durieu; and *Chara delicatula*, Groves and Bullock-Webster.

The publication of Mrs. Gregory's *British Violets* in 1912 stimulated the collection thereof, with the result that one species, two hybrids, and fifteen varieties or forms, have been added to the County Flora.

The Davey Herbarium of Cornish and other British plants was acquired, after his death, by the Royal Institution of Cornwall. It is available for examination at the Truro Museum, where also the Tellam Herbarium is preserved. The Herbarium of Dr. Ralfs came a few years ago into the possession of Mr. H. H. Goddard, who found the papers being used for wrapping up groceries. The Thurston Herbarium of Cornish plants, still in the making, has been presented to Kew. Private Cornish Herbaria are maintained by Mr. and Mrs. Perrycoste, Polperro; Mr. F. Rilstone, Polperro; Dr. C. C. Vigurs, Newquay; and Mr. W. Wise, Launceston. Mr. Wise has also presented a collection of Cornish and Devon plants to the Museum of the Launceston Historical and Scientific Society.

Criticism that the present Supplement is burthened with records of well-known plants is perhaps disarmed by the explanation that Davey's policy of recording localities for plants other than those which are common and generally distributed throughout the County has been continued. The Supplement is an expansion of a local *Flora*, and intended as a guide for amateurs resident in or on a visit to the County, who like to know what plants, in addition to rarities, they may expect to find in any part of it which they are exploring. It has been well said by Mr. J. G. Baker, formerly Keeper of the Kew Herbarium, that "botanists coming into Cornwall from the eastern or central parts of England find much to interest them in seeing how abundant some of the specially western species <sup>are</sup>, and how many plants, which they take for granted are likely to be common, are found to be rare or even altogether absent."

We would impress on amateurs the importance of not merely recording, but preserving, for expert examination, voucher specimens of plants as to the identity of which there may be any doubt, or which are likely to be challenged. In the absence of such specimens, it has been found necessary to

exclude several plants, which might have proved to be of considerable interest.

Since 1909 death has removed from the ranks of those who were interested in the Cornish Flora, or who gave generous help to those engaged in the study thereof, Mr. J. G. Baker, Dr. H. Charlton Bastian, Mr. C. Bucknall, Mr. F. H. Davey, Mr. H. Groves, Mr. A. O. Hume, Mr. E. D. Marquand, the Rev. E. S. Marshall, Mr. Clement Reid, and the Rev. W. Moyle Rogers.

We have to express our great indebtedness especially to the *Journal of Botany*, and the Reports of the Botanical Society and Exchange Club of the British Isles, and Watson Botanical Exchange Club, which have been liberally indented on.

For permission to reproduce the portrait of Davey we are indebted to the Watson Botanical Exchange Club.

Many amateur collectors have to express their gratitude for much generous assistance to the Staffs of the Kew Herbarium and British Museum (Natural History), Mr. A. Bennett, Dr. G. C. Druce, Mrs. Gregory, Mr. J. Groves, Professor A. Henry, Mr. A. B. Jackson, the Rev. E. F. Linton, Dr. C. E. Moss, Mr. H. W. Pugsley, the Rev. H. J. Riddelsdell, Mr. C. E. Salmon, and Dr. F. W. Stansfield. To Mr. George Penrose, Curator of the Cornwall County Museum, Truro, we are indebted for his kindly help in seeing the Supplement through the Press.

The opportunity has been taken to correct some of the errors, which found their way into the *Flora*. Many records therein from Bridgerule should be withdrawn, as the locality is in Devon.

Divisions one to eight correspond with the eight divisions into which the County was divided for the purpose of the *Flora*. Aliens, of which only a few isolated plants have been found, are, as in the *Flora*, printed in italics. The status—native, alien, etc.—of plants recorded in the *Flora* is not repeated in the present Supplement. An asterisk indicates that the plant is not recorded in the *Flora*.

In a very interesting article in *Science Progress*, Vol. XV., No. 57, 1920, entitled "Cornish Phenology, 1912-19," Mr. Frank H. Perrycoste and Miss H. M. M. Perrycoste illustrate, by means of data collected in connection with the Wild Flower Society, the phenology of the part of Cornwall round Polperro during eight consecutive years. "There is," they write, "no

need to emphasise the importance of systematised phenological records as indices to what one may perhaps call resultant climate, or to point out that the nett effect of temperature, rainfall, latitude, elevation, exposure, etc., is summed up in, e.g., the dates of flowering of plants without any ambiguity or possibility of error."

Botanists visiting the Scilly Islands will find much that will interest them in an article on Tresco Abbey Gardens by Dr. A. W. Hill, F.R.S., published in the *Kew Bulletin of Miscellaneous Information*, No. 5, 1920. The suggestion is made therein that it would appear possible to set up a Flax (*Phormium*) industry in co-operation with Cornwall, and to keep a Cornish Flax Mill working throughout the year.

In his Presidential Address to the South-eastern Union of Scientific Societies, 1918, on the Dispersal of Fruits and Seeds by Ocean Currents and Tides, Sir Daniel Morris noted that a seed of the Horse-eye, *Mucuna urens*, which is a native of the West Indies, had been picked up in Cornwall.

A note by Mr. F. Rilstone, dealing with the new Cornish Mosses and Hepatics from the eastern half of vice-county 1 (West Cornwall), was issued in the *Journal of the Royal Institution of Cornwall*, 1917-18, pp. 310-13. A further article by Mr. Rilstone, entitled "Cornish Mosses and Hepatics," was published in the *Journal of Botany*, 1919, pp. 3-10.

A note by Miss G. Lister, published in the *Journal of Botany*, 1920, pp. 127-9, deals with the information relating to Mycetozoa from Cornwall, which was brought together by the late Dr. Alfred Adams, who collected mainly at Looe and the surrounding country, and others.

Quite apart from the mere systematic recording of localities in which the Cornish flowering plants, ferns, mosses, liverworts, lichens, and fungi occur, an enormous amount of interesting work still remains to be carried out in the domain of œcology, i.e., the branch of biology dealing with the relations of living plants in their surroundings, their habits, modes of life, etc., in which, it has been said, the botanical morphologist, physiologist, and systematist, happily meet.



## FREDERICK HAMILTON DAVEY.

Frederick Hamilton Davey, the son of Stephen Henry Davey, was born at Ponsanooth, in the Kennal Vale, in the parish of Perran-ar-worthal, West Cornwall, on September 10th, 1868. He was educated at the village school, and, as his parents had a large family and a very limited income, he had to leave school at the early age of eleven, and went to work at the Kennal Powder Mills. It was then that his education really commenced, for, as far as circumstances would permit, he read wisely and widely. Then, first under the inspiration of his father, to whose memory he dedicated the *Flora*, and afterwards of Canon Saltern Rogers, vicar of the neighbouring parish of Gwennap, who conducted a class for boys, he devoted himself to Nature Study, and soon became fond of wandering in the lanes and fields in his spare time by day, and reading such Nature books as he could get hold of in the evenings.

Although a somewhat delicate lad, things seemed to be going well with him until he was seventeen, when he had his first attack of rheumatic fever, which left a permanent defect in his heart. This, however, did not check him, for, during his long convalescence, he continued his studies, and kept a Formicary, from which he learnt much about Ants and their habits. He had another attack of rheumatic fever at the age of 23, and soon afterwards developed a chronic appendicitis. Still, nothing seemed to discourage him. From reading he advanced to writing, and, in 1891, he contributed his first paper to the Royal Cornwall Polytechnic Society, on the Rushes, Sedges and Grasses of the Kennal Vale and neighbourhood, illustrated by a series of well-selected and mounted specimens. This was followed, between 1892 and 1898, by papers on the Birds nesting in the same locality, Microscopic Studies, the Flora of Kennal Vale, and Artificial Formicaries. For these five papers he received a bronze and four silver medals.

During the winter session, 1900-1, he studied Chemistry and Assaying at the Redruth School of Mines. He never worked in or on any mine.

About this time he settled down to the study of Botany to the almost complete exclusion of other nature subjects, and seriously began the formation of his excellent Herbarium of Cornish and other British plants, now in the Museum of the Royal Institution of Cornwall. About this time, too, his health improved, and he was able to take longer botanical excursions outside his immediate neighbourhood.

In 1899 he first met Mr. A. O. Hume, C.B., an enthusiastic plant collector, and there can be little doubt that this proved the turning point in his career, and the start of his life's work, namely, the *Flora*.

It was at the Autumn Meeting of the Royal Institution of Cornwall in 1899 that he announced his intention of preparing a *Flora* of Cornwall, and asked for the assistance of other field botanists. This was followed by a letter in the local newspapers in March, 1900, again asking for help. This was the commencement of my acquaintance with him, and it was not long before we became very close friends. It was a vast work that he had undertaken, and one full of difficulties. He was a young botanist, at that time quite unknown outside Cornwall, and he was not in robust health or flourishing circumstances. He had little spare time; no good herbarium or reference library near at hand to consult; and there was no existing *Flora* of the County, which he could use as a foundation for his own. However, he threw himself undaunted into the work. He soon collected around him a band of willing helpers, willing because he infected us with some of his own enthusiasm and treated us with unfailing kindness, and because we felt that his was a master mind.

His first contribution, in 1895, to the Royal Institution of Cornwall, to which his more important botanical papers were communicated, was an article on a Local Study in Plant Distribution. This was followed in 1896 by a note on Bulbils and Gemmae; in 1897 by notes on the Acclimatisation of Exotics in the Falmouth-Truro district; the Bulbil Mite; Functions of Colour and Smell in Fungi; and the Dry Summer of 1896; and, in 1898, an article dealing with some Natural History Records. In 1899 he communicated the first of a series of papers on Cornish Botanical Records, the last of which was a combined report for the years 1909-1910. His final contribution to the Institution was a record of the Phytogeographical Excursion to Cornwall in

August, 1911. In 1905 the Institution awarded him, for his treatises on the Botany of Cornwall, published in its Journal, its triennial Henwood Gold Medal, which was then for the first time given for botanical research.

Davey's *Tentative List of Flowering Plants, Ferns, etc., of Cornwall* was published privately, and not for sale, in 1902. It was printed on one side of the paper only, and sent to all those who were doing field work in the County, and they were asked to enter their records on the blank pages. It was the first time a *Prodromus* to a County *Flora* had been issued, and very useful it proved to be. It brought together most of the previously scattered records; it informed workers what had been done; and showed plainly what was wanted. It also showed workers that their earlier records had been duly noted, and so encouraged them to further research. The copies supplied to them were recalled in the autumn, 1905, and then Davey settled down to the production of the *Flora*. This was printed and published by F. Chegwidden, of Penryn, in 1909. It is a fine demy 8vo. volume of over 600 pages, and has a good map of the County divided into eight botanical districts, and portraits of six deceased Cornish botanists. In writing the *Flora*, Davey took infinite pains to eliminate erroneous and doubtful records. He knew that some doubtful records by living amateur collectors remained, but the difficult position in which a refusal of them would have placed him was fully appreciated.

Knowing Davey as well as I did, any appreciative remarks of mine on the *Flora* might be considered biassed, so I will content myself with a few quotations from independent botanists. In the *Report of the Botanical Exchange Club of the British Isles*, 1909, Mr. G. C. Druce writes:—"Mr. Davey is to be congratulated on the completion of an excellent work"; and, in 1915: "The *Flora* was a well-written and trustworthy description of a very interesting area." In the *Journal of Botany*, January, 1916, in an obituary notice, the Editor writes of Davey as "the author of one of the best of our more recent local *Floras*"; and of the *Flora* he says:—"The review published in the *Journal* (1909, 388) gives an appreciative if somewhat critical notice; it may be doubted whether any *Flora* owes more to steady personal investigation, hindered though this was by ill-health and business avocations." Davey's own copy of the *Flora* is interleaved, and contains many notes made by him, which are published in the present Supplement. During his last illness he handed it over to me.

In addition to his earlier papers to the Royal Cornwall



Polytechnic Society, Davey contributed, in 1908, on behalf of that Society, a paper on the work of Carl Von Linné to the New York Academy of Science in connection with its bicentenary celebrations of the birth of that great naturalist. In the same year he contributed to the Polytechnic an account of a botanical excursion, which he piloted around Swanpool, Falmouth. In 1909 he read papers on W. P. Cocks, a Cornish Naturalist, and on Neville Northey Burnard, a Cornish Sculptor. In 1911 he communicated a paper on three Cornishmen, whose portraits are hung in the Gallery of the Society, of whom only one, Davies Gilbert, P.R.S., was interested in plant life. In the same year he contributed his last paper to the Society, on Charles William Peach, A.L.S. He was for some years Honorary Librarian to the Society, and Editor of the Annual Reports, to which he compiled the General Index from 1898 to 1907. He was elected a Vice-President in 1908, and an Honorary Member in 1912. He acted as a Judge in Natural History at the Society's Exhibitions in 1909 and 1911.

To the section of the *Victoria History of the County of Cornwall*, 1906, dealing with Botany, he contributed the introduction, summary of Orders, botanical districts with records of Flowering Plants, and notes on *Menthæ*, *Filices*, and *Characeæ*.

To the *Journal of Botany* Davey contributed a paper on Cornish Plants as early as 1900, and, in 1907, his most important paper, on *Euphrasia Vigursii*, Davey. Besides these his contributions were many, viz., in 1906 on the occurrence in Cornwall of *Polygala serpyllacea*, var. *vincoides*, Chodat; *Narcissus odoratus*; *Eriophorum angustifolium*, var. *triquetrum*; *Carex montana*, forma; *Veronica peregrina*; Cornish Rubi and *Hieracium umbellatum*, var. *curtum*; in 1907 Notes from Cornwall; in 1908 on *Fumaria occidentalis*; Cornish Plants; and a biographical notice of R. V. Tellam; in 1910 on *Agrostis verticillata* at Falmouth; *Malaxis paludosa*; *Herniaria hirsuta*; and a new hybrid Heath found by Mr. P. D. Williams; and in 1911, his last paper to that Journal on *Thalictrum dunense* in Cornwall.

To the *Reports of the Watson Botanical Exchange Club*, which he joined in 1900, he communicated many valuable notes, usually accompanied by sheets of plants. His specimens were always well selected, and beautifully mounted. He was a careful and discriminating collector, and never ruthlessly gathered rare plants, which were in the least danger of becoming still more scarce or extinct. In the Report for 1907-8 he finally deposed *Herniaria glabra* from any claim to being a Cornish

plant. He acted as distributor to the Club in 1908. To the short-lived *Cornish Magazine*, Vol. II., 1899, he contributed an article on the plants growing in the grounds of Penjerrick, near Falmouth.

In the local press Davey frequently wrote popular articles, which undoubtedly stimulated interest in the Cornish Flora. He occasionally delivered excellent popular lectures on Nature subjects in various parts of the County. At the Central Technical Schools for Cornwall at Truro he lectured on Botany during the session 1904-5, and was at one time examiner in Agricultural Botany to the Cornwall County Council. He was elected a Fellow of the Linnean Society in 1903, and was then its youngest Fellow. When the South London Botanical Institute was founded in 1911, he was appointed one of the eleven original Fellows.

His most successful work was with the genus *Fumaria*. He discovered at least one new species, *F. neglecta*, Pugsley, and possibly another, determined by Dr. Fedde as a continental species, *F. major*, Badarro, but named by Mr. Pugsley as a new plant, *F. paradoxa*, Pugsley. In either case, the plant was new to the British Isles. He also added *Fumaria purpurea*, Pugsley, to the Cornish Flora. His next best work was with the Brambles (*Rubi*), he being the discoverer of no less than nine new to the County. In the genus *Euphrasia* he introduced to science a new critical species, *E. Vigursii*, Davey. He also added a variety in *Polygala serpyllacea*, var. *vincoides*, Chodat. His further additions to the Cornish Flora included *Ranunculus trichophyllus* and *heterophyllus*, *Reseda inodora*, *Viola calcarea*, *Ulex Gallii*, var. *humilis*, a *Potentilla* hybrid, *Matricaria suaveolens* (*M. discoidea*), which has now become a common Cornish weed, *Gentiana lingulata*, a *Verbascum* hybrid, *Omphalodes verna*, *Mimulus moschatus*, *Veronica peregrina*, *Euphrasia borealis*, a *Salix* hybrid, *Lemna gibba*, *Agrostis verticillata*, and many other British varieties and hybrids, and aliens.

His best field work was done in the years 1906 and 1907, by which time he had acquired a sound knowledge of plants. His health was then fairly good, and he was not deeply engaged in the clerical work of the *Flora*. He took no interest in Cryptogamic botany apart from the *Pteridophyta* and *Characeæ*.

After the strenuous work of preparing the *Flora*, and passing it through the press, his field botany naturally slackened to some extent. In August, 1911, he very efficiently conducted the International Phytogeographical Excursion through the Lizard district and other parts of West Cornwall. This was carried

through at high pressure, and I have little doubt led to the severe heart attack which seized him in the autumn of that year, and kept him in bed for several weeks. From this he slowly recovered, so that, in the following Spring, he was able to take short drives and very short walks, during which he carefully studied the *Potentillæ* growing near his house. This partial recovery was unhappily of brief duration, for in July, 1912, cerebral thrombosis supervened. When this cleared up a little, he was able to understand what was said to him, but was frequently at a loss for some words, particularly proper nouns. After some further time he was occasionally able to read, but could never write. After leading an active life, and loving to read the Book of the Glorious Author written on the open pages of moor, forest and field, his condition was truly pitiable. Still, he was always cheerful, at any rate when I was able to pay him a visit, and he continued to take a keen interest in Botany, particularly in Mr. Rilstone's discovery of *Nitella gracilis*. When shown a plant that he knew, he could seldom speak the name, but, by turning over the pages of the *Flora*, he would very quickly put his finger on the right name. He was usually confined to bed, but was able to get down stairs occasionally, and rarely to walk into his little garden. The end came suddenly on September 23rd, 1915. His body was laid to rest in the Wesleyan Cemetery of his native village Ponsanooth, and, although not a Wesleyan, I was privileged to read the Lesson at the funeral of my true friend. Appreciative obituary notices were published, in the *Journal of Botany*, with portrait, in January, 1916, by the Editor; in the *Report of the Botanical Society and Exchange Club of the British Isles* by the Secretary; and in the *Report of the Watson Botanical Exchange Club*, 1914-15, by myself.

Davey resided in his native village until 1907, when he moved to "Beechwood," Perranwell, in the same parish. In 1911 he changed his residence to "St. Pirans," just outside Perranwell village.

In 1902 he succeeded his father as Works Manager of the Cornwall Arsenic Company's Works at Bissoe, having previously acted as his assistant for several years. From this position his failing health compelled him to retire in 1912. He was never married.

His contributions to science were recognised by a Civil List grant in 1913.

The name of Davey is perpetuated by Dr. A. Henry in a new variety of Elm, *Ulmus major*, var. *Daveyi*, Henry, which



occurs sparingly in Cornwall and elsewhere. One tree stands in the hedge opposite the gate of "Beechwood," Perranwell.

It was a good thing that Davey appeared on the scene when he did, for, although the earlier Cornish botanists did excellent pioneer work, they kept almost entirely to their own districts; they worked singly; many of their records were not published, and such as were are mostly scattered. Davey supplemented their work by collecting their records together, and, by visiting many parts of the County, obtained a first-hand knowledge of the range of plants far better than any of them had. But he did much more than this. By his enthusiasm he created a new school of Cornish botanists, which, it is to be hoped, will continue the good work their master started, not only for the work's sake, but also with the sentiment that they are doing what he would have wished to be done.

I may include one little incident, which we frequently referred to afterwards. On one of his week-end visits to me, while we were out walking together, we met a mutual friend, an elderly Minister, who, on account of his loveable character, was known as "Daddy." After a few words of greeting he said solemnly:—"Davey, if you knew your Bible as you know your botany, you would be a power in the world," and passed on.

I have good authority for stating that, in his profession, Davey was a faithful and reliable Agent to his Directors, who felt towards him a personal regard, and realised that the employment they were able to give him was not really commensurate with his attainments, and offered little scope for his special qualifications. By those working under him he was regarded with those feelings of affection, which he inspired in all with whom he came in contact.

As a botanist he was very careful, thorough, painstaking and hardworking. He was a delightful correspondent, and his letters, written in a clear clerical hand, with usually a sparkle of wit in them, were a pleasure to read. When necessary he could be very tactful, and always avoided hurting the feelings of anyone. He never annexed the records of others, and, being perfectly fair himself, expected to be treated in like manner. As a companion he was always genial and cheery, sympathetic with the troubles of others, but never grumbling about his own. It was a pleasure to walk with him in his own neighbourhood, to see how much he was respected and loved by all.

CHAMBRÉ C. VIGURS.

## CORRIGENDA ET ADDENDA.

### DAVEY, FLORA OF CORNWALL, INTRODUCTION.

- P. XXIX. 1576. For *Stirpium Historia, sive Observationes* read *Plantarum seu Stirpium Historia*.
- P. XXX. 1640. John Parkinson. Omit *Asplenium marinum*.
- P. XXXI. 1666. Christopher Merrett. Omit *Pinguicula lusitanica*.  
1670. John Ray. After *Bartsia viscosa* add *Pinguicula lusitanica*.
- P. XXXII. 1690. For *Ononis spinosa* read *Ononis repens*.
- P. XXXIII. 1758. Borlase. After *Mentha arvensis* add *Chenopodium Bonus-Henricus*.
- P. XXXIV. 1774. John Lightfoot. Add *Centunculus minimus*, preserved in the Banksian Herbarium, British Museum.
- P. XXXVIII. 1806. Polwhele, *History of Cornwall*. Omit *Chenopodium Bonus-Henricus*.
- P. XLI. Omit the reference to Lindley's *Synopsis*.
- P. XLII. 1841. Rev. William Strong Hore. For Basingstoke, Hants, read Barnstaple.
- P. XLV. 1846. Keys. For Isaac read Isaiah.
- P. XLVI. Charles Alexander Johns. According to the biography in *Flowers of the Field*, 33rd Ed., 1911, Johns became second master at Helston Grammar School in 1831 under Derwent Coleridge, and succeeded him, being headmaster from 1843 to 1847.
- P. XLVIII. 1849. In this year W. P. Cocks published, in the *Cornwall Polytechnic Report*, an article entitled Contributions to the Flora of Falmouth.
1850. Pascoe. Omit *Corydalis claviculata*.

- P. LIII. 1867. James Cunnack. Omit *Lemna trisu'ca*.
- P. LVI. top of page For W. H. Beeby read William Haddon Beeby. He was born in 1849, and died in 1910. A memoir, with portrait, was published in *Journal of Botany*, May, 1910.
- P. LVII. 1876. Add *Valerianella carinata* by the Rev. A. Ley.
1877. Muller. For Sigvold read Sigvald.
- P. LIX. 1884-5. Add In *Report Bot. Loc. Rec. Cl.*, 1884-6, the Rev. W. Moyle Rogers added *Rubus pubescens* to the Cornish Flora. In *Report Bot. Exch. Cl.*, 1885, he recorded *Rubus plinthostylus* under the name *R. Koehleri*.
1886. Omit *Rubus pubescens* and *R. plinthostylus*.

### BOTANICAL DISTRICTS.

Pp. LXIII.-LXIX.

#### 1.—UPPER TAMAR DISTRICT.

Omit *Geum rivale* and *Hypochæris glabra*.

#### 3.—FOWEY DISTRICT.

Omit *Caucalis latifolia* and *Juncus tenuis*.

Add *Silene conica*, *Arenaria tenuifolia*, *Spergularia atheniensis*, *Medicago minima*, *Verbascum pulverulentum*, *Veronica triphyllos*, *Euphrasia confusa*, *Salicornia appressa*, *Malaxis paludosa*, *Sagittaria sagittifolia*, *Mibora minima*, *Poa palustris*.

#### 4.—CAMEL DISTRICT.

Omit *Galium Cruciata* and *Elymus arenarius*.

Add *Atropis festuciformis*.

#### 5.—NORTH COAST DISTRICT.

Omit *Euphrasia borealis*.

Add *Dianthus deltoides*, *Pyrus intermedia*, *Hieracium Peleterianum*, *Euphrasia stricta*, *Ajuga pyramidalis*, *Chara delicatula*, *Nitella gracilis*.



## 6.—FAL DISTRICT.

A hybrid of *Verbascum Lychnitis* and *V. nigrum* has been seen at Par in district 3.

Add *Fumaria neglecta* and *Rubus Scheutzii*.

## 7.—LIZARD DISTRICT.

Omit *Rhinanthus stenophyllus*, *Juniperus communis*, *Allium Schœnoprasum*, *Carex muricata*.

Add *Thalictrum dunense* and *Isoetes hystrix*.

## 8.—LAND'S END DISTRICT.

Omit *Fumaria parviflora*, *Oxalis stricta*, *Trifolium suffocatum*, *Cynodon Dactylon*.

**LIST OF BOOKS, MSS., Etc.,**

## QUOTED IN THE FLORA.

- P. LXXI. For Clarke, W. read Clarke, W. A.  
 P. LXXII. Add Fraser, Robert. General View of the County of Cornwall, London, 1794.  
 P. LXXIV. Add Lobel, Matthias de. Plantarum seu Stirpium Historia, Antuerpiæ, MDLXXVI.

**SUMMARY.**

## PLANTS OCCURRING IN CORNWALL, AND NOT RECORDED FOR DEVON. P. LXXXI.

Omit *Thalictrum majus*, *Ranunculus tripartitus*, *Rubus iricus*, *Rubus plinthostylus*, *Erica ciliaris*, *Symphytum tuberosum*, *Polygonum minus*, *Bromus maximus*.

Add *Fumaria neglecta*, *Fumaria paradoxa* (vel *major*), *Rubus Scheutzii*, *Salicornia appressa*, *Isoetes hystrix*.

## PLANTS OCCURRING IN DEVON, AND NOT RECORDED FOR CORNWALL. PP. LXXXI-II.

Omit *Fumaria muralis*, *Dianthus deltoides*, *Malaxis paludosa*, *Sagittaria sagittifolia*.

Add *Cardamine trifolia*, *Viola meduanensis*, *Stellaria nemorum*, *Rubus mercicus*, *R. cinerosus*, *R. uncinatus*, *R. fuscus*, *R. mutabilis*, *Bupleurum aristatum*, *Euphrasia minima*, *Potamogeton salignus*.

PLANTS OCCURRING IN CORNWALL, AND NOT RECORDED  
FOR ANY OTHER COUNTY IN BRITAIN. PP. LXXXII-III.

Omit *Artemisia Stelleriana*, *Juncus capitatus*, *Bromus maximus*.  
Add *Fumaria paradoxa* (vel. *major*), *Fumaria neglecta*, *Isoetes  
hystrix*, *Atropis festuciformis*.

PLANTS WHICH HAVE BECOME EXTINCT IN CORNWALL.  
P. LXXXIII.

Omit the reference to *Diotis maritima*.

PLANTS RECORDED FOR CORNWALL IN ERROR. PP. LXXXIII-IV.

Omit *Isatis tinctoria*, *Silene conica*, *Arenaria tenuifolia*, *Medi-  
cago minima*, *Senecio squalidus*, *Chenopodium glaucum*,  
*Euphorbia Esula*, *Nitella gracilis*.

**ABBREVIATIONS.**

- Bab. Man.—Babington, Manual of British Botany.
- B.E.C.—Report, Botanical Society and Exchange Club of the British Isles.
- Bot. Loc. Cl. Rep.—Report, Botanical Locality Record Club.
- Corn. Mon. Cl.—Cornish Moneywort Club.
- Dunn.—S. T. Dunn, Alien Flora of Britain.
- Flora.—Davey, Flora of Cornwall.
- Fl. Plym.—Briggs, Flora of Plymouth.
- Journ. Bot.—Journal of Botany.
- Journ. Linn. Soc.—Journal, Linnean Society.
- New Phyt.—New Phytologist.
- Pol. Rep.—Report, Cornwall Polytechnic Society.
- R.I.C.—Journal, Royal Institution of Cornwall.
- Tent. List.—Davey, Tentative List of the Flowering Plants, Ferns, etc., of Cornwall.
- W.E.C.—Report, Watson Botanical Exchange Club.



## RANUNCULACEÆ.

### **Clematis Vitalba**, Linn.

3. Porthallow, Talland, 1910, Mrs. and H. M. M. Perrycoste. Polmear near Par, Medlin. Frequent about Charlestown, Tresidder.
5. East of Mawgan Cross, Vigurs.
6. Ruan Lanihorne, 1913, Thurston. Between Flushing and Mylor, Mrs. and H. M. M. Perrycoste. Mylor quarry, 1921, R. L. Smith and W. D. Watson.
8. Hayle, 1911, Davey. Near Bodriggy Mill, Hayle, Rees. Carbis Bay, 1913, Thurston.

### \***Thalictrum dunense**, Dum.

7. Rill Head, Lizard, 1899, Hume, *R.I.C.*, 1911, p. 375.

### **T. minus**, Linn.

7. Tresempole Pool, St. Martin in Meneage, 1920, Tresidder. Head of East Kennack Valley, 1899, Hume. "Rill Head, Hume" (*Flora*). Delete the record.

### **T. majus**, Crantz.

7. Patch in lane leading from S.W. corner of Penhale, Lizard Road, 1914, Thurston. *Vide B.E.C.*, 1914, p. 111, where it is suggested that it may be *T. collinum*, Wallr, *T. montanum*, Wallr, or *T. dunense*, Dum. The Cornish *Thalictra* require critical investigation.

### **Anemone nemorosa**, Linn.

1. Minster Valley, Boscastle, 1915, Thurston.
3. Starrick Moor, St. Austell, Medlin.
4. Hustyn Wood, St. Breock, 1915, Thurston.
6. Near Creed; Lamorran Wood, 1913, Thurston.

### Var. **cærulea**, DC.

3. Wood near Lostwithiel, 1920, Rilstone.

\*Var. **robusta**, Salisbury.

3. Callywith Wood, 1½ mile E. of Bodmin, Salisbury.
4. Near Grogley, between Wadebridge and Bodmin, Salisbury.

**Adonis annua**, Linn.

3. Par Harbour, 1920, Thurston; Medlin. Ballast-heap, Charlestown, 1920, Tresidder.

**Ranunculus trichophyllus**, Chaix.

1. Northcott, Bude, 1917, Harvey.
5. Roadside near Treginegar, St. Ervan, 1918, Thurtson.

**R. sp.**

5. Stream, Holywell Bay, 1916, Thurston. "Somewhat resembling *R. trichophyllus*, but with glabrous instead of bristly carpels," J. Groves.

**R. Drouetii**, F. Schultz.

- 5 " *R. trichophyllus*, Trevemper four-turnings " (*Flora*), Transfer the record to *R. Drouetii*. Trewassick, St. Columb Minor, 1912; Carnkief pond and Treamble quarry, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 375.
7. Loe Pool, 1911, Davey.

**R. heterophyllus**, Weber.

7. Carminowe Creek, Loe Pool, 1914, Thurston.

**R. peltatus**, Schrank, var. **penicillatus** (Hiern).

2. Stream supplying Heskyn Mill, Tideford (*Flora*). Mr. Briggs writes (*Fl. Plym*):—"I have never met with flowers of this variety. . . . It has no floating leaves." Flowers and floating leaves, 1919, Thurston.

**R. Baudotii**, Godr, sub-terrestrial form.

3. Mud at edge of pool, Seaton Estuary, 1919, Thurston.
7. Margin of pool on road from Penhale, Lizard road, to Mullion, 1914, Thurston.

Var. **confusus** (Godr).

7. Pool on road from Penhale to Mullion. Miss C. E. Larter, *R.I.C.*, 1911, p. 375.

**R. tripartitus**, DC.

7. Helston, *Bab. Man. Ed. IX.*, p. 8. Kynance Downs, in damp depressions on the way to Kynance Farm, Miss R. E. Carr-Smith, *R.I.C.*, 1911, p. 375.

**R. lutarius**, Bouv.

4. Holy Well, Roche, Vigurs.  
 5. Barton Moor, St. Enoder, Vigurs. Tolgroggan Moor, St. Allen, Tresidder.  
 6. Trelassick, Ladock, 1913, Tresidder.  
 7. Pradannack Downs, 1914, Miss M. Cobbe. Clahar Water near Mullion, 1922, Perry.  
 7. Pradannack Downs, 1914, Miss M. Cobbe.

A paper by Mr. W. H. Pearsall, dealing with a revision of the British Batrachia, has been published in *B.E.C.*, 1918, pp. 423-41.

**R. sceleratus**, Linn.

3. Ballast-heap, Charlestown, one plant, 1914, Tresidder.  
 6. Roadside ditch, Ruan Laniorne, 1913, Thurston.

**R. Flammula**, Linn, var. **radicans**, Nolte (*tenuifolius*, Wallr).

6. Bargas Moor, Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 375.  
 8. Chy-an-hal Moor, 1921, Thurston and Rilstone.

**R. Lingua**, Linn.

7. "Valley east of Gunwalloe, Johns" (*Flora*). Collected there in 1916 by W. Tresidder, and in 1920 by Dr. H. Downes.

It is possible that, in some cases, the large form of *R. Flammula* has been confounded with this species.

**R. sardous**, Crantz.

3. Delete the record for Polperro (*Flora*). Plentiful in a field above Lantic Bay, Lanteglos-by-Fowey, Mrs. and H. M. M. Perrycoste.  
 7. "Lizard" (*Flora*). Near Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 375. The Green and elsewhere, Lizard town, Thurston. Pradannack Downs, 1914, Miss M. Cobbe.

**R. parviflorus**, Linn.

3. Gribbin Head, Medlin. Par, 1917, Miss M. Cobbe. Abundant in arable fields between Par and Polkerris, and near Charlestown, Salisbury.



5. Vegetable garden, Little Callestick, Perranzabuloe, 1916, Thurston. Phillack Towans (sand-dunes), Rees.
6. Cornfield, Veryan; field near Nare Head, 1913, Thurston. Between Truro and Malpas; Devoran, 1917, Miss M. Cobbe.
7. Crowan Village, Tresidder. Near Mullion Cove; Pradannack Downs, 1914, Miss A. B. Cobbe.
8. Ludgvan; Penzance, Rees.

**R. arvensis**, Linn.

3. Cornfield, Trenovissick Farm, Par, 1922, Medlin. Ballast-heap, Charlestown, 1920, Tresidder.
5. Goonhavern, one plant, 1912, Tresidder. Goonbell near St. Agnes, Rilstone.
8. Gwinear Road Station, one plant, 1920, Harvey.

\***R. Ficaria**, Linn, var. **sinuatus**, Horw.

7. Near Tremayne Quay, Helford, 1922, Tresidder.

**Galtha palustris**, Linn.

1. Week St. Mary, Tresidder. Bude; Valency Valley, Boscastle, 1915, Thurston.
7. Chypons near Mullion, 1914, Perry.
8. Marazion Marsh, 1919, Rees.

**Helleborus viridis**, Linn.

3. Plentiful in orchards at Porthallow and Kilmanorth; by river, Longcombe near Polperro, Mrs. and H. M. M. Perry-coste. Roadside, Boconnoc, 1911, *Corn. Mon. Club*. Mount, Par, Medlin.
5. Trevibban Barton near St. Issey, 1917, Tresidder.
6. Wood by roadside, Trewarthenick near Tregoney, 1913, Thurston. Pengreep, one plant, 1921, R. L. Smith and W. D. Watson. Pennance, Gwennap, over fifty years, Bray, *R.I.C.*, 1911, p. 375.
7. Field hedge, Hendra Farm between Lizard road and Kuggar, 1914, Thurston.
8. "Tolcarne, Curnow" (*Flora*). Still there in 1915, Rees.

**H. fœtidus**, Linn.

3. "Polperro, Couch" (*Flora*). Not seen there by the Perrycostes.
4. Road from Bodmin to Wadebridge, Smith-Pearse, *R.I.C.*, 1911, p. 375.

**Aquilegia vulgaris**, Linn.

Also known as Granny's Bonnets.

1. Bude, 1916, Harvey.
3. Doublebois, 1917, Miss M. Cobbe. Banks of Trelawney river in Yearl's Coombe, Mrs. and H. M. M. Perrycoste. Crinnis, Medlin.
5. Gwinear, Rees.
6. Newham Railway, 1911, Foott. Abundant on borders of fields west of Mylor village, 1921, R. L. Smith and W. D. Watson. Lane between Mylor and Trelew; railway-bank between Perranwell and Penryn, 1917, Miss M. Cobbe.
7. Near Gweek; orchard, Poltesco, 1914, Thurston.
8. Carbis Bay, 1912, Thurston. Gulval, 1913, Miss A. B. Cobbe.

**Delphinium Ajacis**, Linn.

1. Waste-ground, Bude, 1915, Thurston.
3. Ballast-heap, Charlestown, 1920, Tresidder.
4. Waste-ground, Rock, St. Minver, 1915, Thurston.
6. Arallas, Ladock, 1915, Vigurs.

*D. consolida*, Sibth. 5. Sandy field, Phillack, 1915, Rees.

**Aconitum Napellus**, Linn.

1. Between Stratton and Kilkhampton, 1911, Henderson.
2. Par, 1912, Vigurs. Tregrehan, St. Austell, Medlin.
6. Field hedge near mill cottage, Ruan Laniorne, 1913. Thurston. Frogmore near Truro, 1911, Foott.

**BERBERIDACEÆ.****Berberis vulgaris**, Linn.

3. Two plants in field hedge on roadside near Polperro Cemetery, 1919, Mrs. and H. M. M. Perrycoste.
8. Trengwainton Cairn; Bone Valley, Madron, Rees.

**NYMPHÆACEÆ.****Castalia alba**, Wood.

1. Bude Canal, 1916, Harvey. Perhaps, as doubtless on Goss Moor, introduced.

## PAPAVERACEÆ.

**Papaver somniferum**, Linn.

3. A few plants in field near Crumplehorn, Polperro, 1916, Mrs. and H. M. M. Perrycoste.
6. Devoran, 1917, Miss M. Cobbe.

\*Var. **hortense** (Huss). Alien.

3. Par Harbour, 1913, Thurston.

\*Var. **setigerum** (DC). Alien.

3. Par Harbour, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 94.
5. Very abundant on Constantine Common near the sands; all the plants crowded with snails, 1918, Thurston.

**P. Rhœas**, Linn, var. **Fryorii**, Druce.

3. Railway, Fowey, 1920, Miss Berenice d'Avigdor. Par, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 94.
7. Lizard, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 470.

**P. dubium**, Linn.

3. Between Talland and Polperro, 1911 et. sq., Mrs. and H. M. M. Perrycoste. Par, Vigurs.
5. Goonhavern, 1911, Tresidder. Hayle Towans (sand-dunes); Phillack, Rees.
6. Perran-ar-worthal, 1912, Davey.
8. Between Lelant and Carbis Bay; Porthmeor, St. Ives, 1912, Rees.

**P. Lecoqii**, Lamotte.

8. " St. Agnes, Scilly " (*Flora*). It seems to be the prevailing poppy in the Scilly Isles, 1921, Downes.

**P. Argemone**, Linn.

4. Pentire, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 375.
5. A form with few hairs on capsules, Trethellan, Newquay, 1912, Vigurs.
7. Single plant near Mullion Cove, 1914, Thurston.



**P. hybridum**, Linn.

4. Pentire, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 375.
5. Rees Farm and Goonhavern, Perranzabuloe, Tresidder. Lambourne Hill, Perranzabuloe, annually, Rilstone.
8. Abundant in field by roadside opposite 18th hole, Lelant golf-links, 1912, Thurston.

**Meconopsis cambrica**, Vig.

1. Carthamartha Wood, Lezant, 1917, Tresidder.
6. Garden escape, Parc Behan, Veryan, 1913, Thurston.

**Glaucium flavum**, Crantz.

5. "Perranporth" (*Flora*). Inland on top of Budnick Hill near Perranporth, 1916, Thurston.
7. Kennack Sands, Rev. H. E. Fox, *R.I.C.*, 1911, p. 375.

*G. phœniceum*, Crantz. 6. One plant at Falmouth, Cocks, *Pol. Rep.* 1877, p. 127. Fowl-run, Falmouth Docks, 1917, Smith-Pearse.

**Chelidonium majus**, Linn.

3. Henwood, Linkinhorne, 1920, Harvey. Orchard below Sowden's Bridge, Trelawney river, 1918; abundant by roadside, Pelynt, 1917, Mrs. and H. M. M. Perrycoste. Bethel near St. Austell, Tresidder.
4. Burlorne, St. Breock, 1915, Thurston.
5. Lowertown, St. Colan, Tresidder, *R.I.C.*, 1911, p. 375.
6. Penwethers near Truro, 1911, Foott. Cottage garden between Creed and Veryan, 1913, Thurston. Abundant about Lanner, 1920, Harvey.
7. Kuggar, Rev. H. E. Fox, *R.I.C.*, 1911, p. 375.
8. Phillack; Gwinear, 1921, R. L. Smith and W. D. Watson.

\**Eschscholtzia crocea*, Benth. Alien. 3. Par Harbour, 1913, Vigurs.

## FUMARIACEÆ.

\**Diclytra eximia*, DC. (*Dicentra eximia*, Torrey). Garden origin.

6. Waste-heap, Perran-ar-worthal, 1912, Davey, *R.I.C.*, 1913, p. 225.

***Corydalis lutea***, DC.

8. Penzance, 1913, Rees.

***C. claviculata***, DC.

The first record (*Flora*) should read:—*Capnos alba quorundam*. Varietas. Floribus albis laticribus foliis in segetibus Cornubiæ. Lobel, *Plantarum seu Stirpium Historia*, 1576, p. 438.

2. Slopes of Sharp Tor, 1920, Harvey. Quarry, Higher Kernock, Pillaton, 1910, Hawk, *R.I.C.*, 1911, p. 376.  
3. Polperro, 1915, Rilstone. Luxulyan Valley, 1922, Mrs. Darroch. Roadside between Lanlivery and Helman Tor, 1920, Thurston.

\**C. bulbosa*, DC. (*Neckeria bulbosa*, N. E. Brown). Alien. 5. Garden escape, Trevella, Crantock, Vigurs, *R.I.C.*, 1913, p. 225.

***Fumaria capreolata***, Linn (*pallidiflora*, Jord).

3. Charlestown, Tresidder.  
6. "Lane leading to Gyllyngvase, Falmouth, 1882" (*Flora*). Gyllyngvase, 1917, Miss M. Cobbe.  
7. Roadside near Porthleven, Tresidder.

"Prevailing form with us in the var. *Babingtonii*, Pugsley, but I have seen specimens from Swan Pool (Falmouth) that perhaps should be referred to the type." Pugsley, *Supp. Journ. Bot.*, 1912, p. 11. Further study of Cornish specimens of this species is required.

\*Var. ***Babingtonii***, Pugsley.

4. Padstow, Davey, 1904, Pugsley, *loc. cit.*  
8. Penzance, Pugsley, *loc. cit.*

\*Sub-var. **divaricata**, Pugsley.

8. Penzance, Pugsley. "The pink tinting is more pronounced, and the fruiting pedicels are generally divaricate instead of recurved, thus belying the principal specific character." Pugsley, *loc. cit.*, p. 8.

**F. purpurea**, Pugsley.

8. St. Ives, 1912, Thurston.

Var. **brevisepala**, Pugsley.

5. Near Cubert, Vigurs. Pugsley, *loc. cit.*, p. 14.

**F. occidentalis**, Pugsley.

5. Garden weed, Penwortha near Perranporth, 1916, Thurston. Bolingey and Treworthen, Perranzabuloe, Tresidder. Lam-bourne Hill, Perranzabuloe, Rilstone. Hayle, 1911, Jenner.
8. Marazion Station, Davey, *R.I.C.*, 1911, p. 376. "Garden ground, Newlyn, 1881 (Herb. C. Bailey as *F. confusa*), the earliest known example." Pugsley, *Journ. Bot.*, 1913, p. 50.
- "Mr. Pugsley suggests (*Journ. Linn. Soc.*, XLIV., No. 298), that *F. vulgaris cornubiensis alba* of Parkinson's *Theatrum Bot.*, 287, 1640, noted as growing in cornfields in that county, may be *F. occidentalis*. Is not *pallidiflora* the more likely plant?" *B.E.C.*, 1919, p. 607.

**F. Boræi**, Jord.

For var. **verna**, Clavaud (*Flora*), read forma *rubens*, Pugsley, *Supp. Journ. Bot.*, 1912, p. 26.

For var. **serotina**, Clavaud (*Flora*), read var. *britannica*, Pugsley, *ibid.*, p. 27.

For var. **muraliformis**, Clavaud (*Flora*), read var. *gracilis*, Pugsley, *ibid.*, p. 26.

**F Bastardi**, Bor. var. **hibernica**, Pugsley.

1. Boscastle, Hall. Pugsley, *ibid.*, p. 42.

\*Var. **Gussonei**, Pugsley.

8. St. Ives, 1909, Herb. C. Bailey. Pugsley, *Journ. Bot.*, 1913, p. 50; *B.E.C.*, 1914, p. 8.



\***F. officinalis**, Linn, var. **elegans**, Pugsley.

3. Ballast-heap, Charlestown, 1920, Tresidder.

\*Forma **agrestis**, Haussk.

5. Potato garden, Perranporth, 1916, Thurston.

\*Forma **Wirtgeni**, Haussk.

5. Near Cubert, 1919, Mrs. Wedgwood.

**F. densiflora**, DC (*F. micrantha*, Lag).

3. Par Harbour, 1921, Medlin.

**F. parviflora**, Lam.

3. Ballast-heap, Charlestown, 1920, Tresidder. "Type, but with abnormally long bracts," Pugsley.

\***F. major**, Badarro (*paradoxa*, Pugsley. *Supp. Journ. Bot.*, 1912, pp. 31-35). New to British Isles.

5. Goonhavern, Tresidder, *R.I.C.*, 1913, pp. 221-2.

6. Gilly Tresamble, Perran-ar-worthal, in abundance over about two miles of country, 1904, Davey, *B.E.C.*, 1910, p. 535.

It is suggested (*B.E.C.*, 1914, p. 114) that this plant, growing in cultivated ground near Reigate Hill, Surrey, may have been introduced with potatoes from Cornwall.

\***F. neglecta**, Pugsley. Sub-species of the aggregate species *F. muralis*. *Supp. Journ. Bot.*, 1912, p. 24.

6. Gilly Tresamble, Perran-ar-worthal; between Truro and Malpas in considerable quantity, 1907, Davey, *R.I.C.*, 1913, p. 222.

## CRUCIFERÆ.

**Cheiranthus Cheiri**, Linn.

1. "Near Launceston" (*Flora*). Abundant, with bright orange-yellow flowers, on the walls of Launceston Castle.

8. Hayle quarry, 1918, Rees.

In Bond's *Topographical and Historical Sketches of East and West Looe, 1823*, it is noted that "in the spring almost every old wall and chimney in East Looe is adorned with a very

beautiful and fine smelling yellow flower, called by the inhabitants Heartseeds, probably a corruption for Heart's ease from its fragrant smell. . . . They produce an immense quantity of seed, and, wherever the wind drives it, it takes root and grows most luxuriantly."

**Radicula sylvestris**, Druce.

1. St. Stephen-by-Launceston, 1916, Smith-Pearse.
3. Delete the record "between Golant and Fowey" (*Flora*). The plants were small specimens of *Barbarea verna*, F. H. Perrycoste.

**R. palustris**, Moench.

3. "Par, Tellam" (*Flora*). Seen there in 1917 by Miss A. B. Cobbe.
6. Many plants by the siding of the down platform, Falmouth station; Perranwell station, Davey, *R.I.C.*, 1911, p. 376.

**Barbarea verna**, Aschers.

I do not think this is as common as Davey's omission of localities would indicate. I have not seen it near Newquay. C. C. Vigers. A number of varieties are described by Mr. A. Bruce Jackson in *Journ. Bot.*, 1916, p. 202

**Arabis hirsuta**, Scop.

5. Holywell Bay; Perranporth, 1916, Thurston.

Var. **glabrata**, Syme.

The quotation in the *Flora* relating to the distribution refers to the type, not the variety.

**Cardamine pratensis**, Linn.

Also known as Milkmaid.

- Alyssum alyssoides*, Linn. 7. Mullion, Miss A. B. Cobbe, *B.E.C.*, 1916, p. 471.

**A. maritimum**, Lam.

3. Par Harbour, 1916, Medlin. Crinnis, Tresidder.
5. Cliff by canal, Phillack, 1913, Miss M. Cobbe. Hayle, 1920, Harvey.

**Erophila verna**, E. Meyer.

3. Gribbin Head; Polmear near Par; Par Harbour, 1922, Medlin.
5. Wall, St. Merryn, 1918, Thurston.
7. Pradannack Downs, 1914, Miss M. Cobbe.
8. Lelant, 1913, Miss A. B. Cobbe.

**E. præcox**, DC. (*E. brachycarpa*, Jord).

1. Wall between Bude and Stratton, 1915, Thurston.
5. Reen Sands, Perranporth, 1916, Thurston.
8. Sand-dunes, Hayle and Lelant, 1921, W. Watson.

In a note on *Erophila præcox*, the Rev. H. J. Riddelsdell writes:—"These elusive micro-species are all the more difficult to determine . . . because the colonies are by no means homogeneous; and there is much obvious transition between species, to say nothing of highly probable crossing. Another difficulty arises from the fact that the pods vary in shape even on a single plant." *B.E.C.*, 1914, p. 118. Cornish plants of the two species require further study.

**Cochlearia officinalis**, Linn.

1. Whitstone, 1917, Tresidder.
3. River-bank, Lostwithiel, 1920, Thurston.
5. Trekenning, St. Columb Major, Vigurs.
6. Seems to be spreading inland about St. Stephen-in-Brannel and other places, Tresidder. Calenick creek, 1911, Foott. Paradoe Cove, Gerrans Bay, 1913, Thurston.

**C. anglica**, Linn.

3. On turfy banks covered at spring tide between Looe and Sandplace, Boyden, *R.I.C.*, 1911, p. 376.

**C. Armoracia**, Linn.

1. Wall on river-bank, Boscastle, 1915, Thurston.
5. Trevemper Bridge, 1909, Tresidder.
6. Penarrow near Mylor, 1921, R. L. Smith and W. D. Watson.
8. Pentreath Farm, Pra, 1911, Davey.



**Hesperis matronalis**, Linn.

3. Near Looe gas-works, but now disappeared, Mrs. and H. M. M. Perrycoste. St. Blazey, 1920, Medlin.
5. Lambourne Hill, Perranzabuloe, Rilstone. Duchy Peru, Perranzabuloe, Tresidder.

*Wilckia maritima*, Scop. 6. Waste-ground between Truro and Malpas, 1917, Miss M. Cobbe.

**Sisymbrium Thalianum**, Gay.

3. Hedge bank in lane from Portlooe Farm to West Looe, Mrs. and H. M. M. Perrycoste. Among railway ballast, Lostwithiel, 1920, Thurston. Par Harbour, 1922, Medlin. Ballast-heap, Charlestown (very large plants) 1920, Tresidder.
5. Shepherd's Station, Vigurs, *R.I.C.*, 1911, p. 376.
7. Kynance, 1912, Miss A. Vellacott. Pradannack Downs, 1914, Miss M. Cobbe.

**S. officinale**, Scop. var. **leiocarpum**, DC.

Mr. Rilstone finds that, in Cornwall, this is "almost certainly an alien, occurring near docks and mills, usually in company with other obvious aliens, as at Par, Charlestown, and Falmouth. At Par, in the neighbourhood of the docks and Beaver Mill, the variety is far more plentiful than the type, while a short distance inland the type only is represented." *Journ. Bot.*, 1918, p. 114. "Often of adventitious origin," Druce, *B.E.C.*, 1918, p. 488. "This variety is much commoner in America than true *S. officinale*." *B.E.C.*, 1913, p. 451.

**S. pannonicum**, Jacq.

3. Bodmin Road station, 1918, Harvey. Ballast-heap, Charlestown, 1916, Tresidder.
5. Newquay, 1911, Vigurs. Perranwell, Perranzabuloe, 1911, Tresidder.
6. Grampound Road station, 1922, Borlase. Waste-heap, Penryn, 1921, Tresidder.

**S. Sophia**, Linn.

3. One plant, Par, 1910, Druce, *Journ. Bot.*, 1911, p. 303; *B.E.C.*, 1917, p. 95. Par and Par Harbour, Miss M. Cobbe, *B.E.C.*, 1917, p. 95.

**S. orientale**, Linn.

5. Goonown near St. Agnes, Rilstone.
6. Falmouth Docks, 1917, Miss A. B. Cobbe.
8. Tresco, Scilly Isles, 1921, Downes.

\*Var. **subhastatum** (Willd). Thell. Alien.

3. Par Harbour, 1914, Vigurs, *B.E.C.*, 1914, p. 120; 1915, p. 186.

\**S. pinnatum*, Greene, Alien. Orient. 3. Par Harbour, in some quantity, 1911, Druce, *B.E.C.*, 1912, p. 152. In *B.E.C.*, 1917, p. 15, the nomenclature is altered to *Sisymbrium multifidum* (Pursh) Macmillan sub-sp. *S. brachyphyllum* (Richardson) Thellung, forma *eglandulosum*, Thell.

**S. Alliaria**, Scop.

5. Rare in Newquay district, Vigurs.

**Erysimum cheiranthoides**, Linn.

3. Several starved plants in railway ballast, Lostwithiel, 1920, Downes.
6. Falmouth Docks, Howard Fox, *R.I.C.*, 1911, p. 376.

**E. orientale**, Mill (*Conringia orientalis*, Andrz).

3. Polperro, Rilstone. Par, 1911, Druce, *Journ. Bot.*, 1911, p. 303; 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 96.
5. Lambourne Hill, Perranzabuloe, Rilstone, *B.E.C.*, 1916, p. 472. Sandy field, Phillack, 1915, Rees. 6. "Falmouth Docks, 1901-5" (*Flora*). Seen there in 1917, Miss A. B. Cobbe.
7. Potato patch, Lanarth House, St. Keverne, 1919, P. D. Williams.

*E. repandum*, Hojer. 3. Par Harbour, 1917, Miss M. Cobbe.

**Camelina sativa**, Crantz.

3. Polperro, one plant as garden weed, 1915, Mrs. Perrycoste.
5. Goonhavern, 1911; Reen Sands, Perranporth, 1913, Tresidder. Lambourne, Perranzabuloe, Rilstone.

\**Brassica elongata*, Ehrh. Alien. "Native of dry districts in Asia Minor, and a weed of cultivated and waste ground in various parts of Europe. Several times recorded in waste places in England, once in connection with grain siftings." Dunn. 3. Par, Druce, *Journ. Bot.*, 1911, p. 303; *R.I.C.*, 1913, p. 225.

Var. *persica* (B. & H.). 3. Par Harbour, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 96.

**B. alba**, Boiss.

3. Looe dust-heaps, 1916 and 1917, Mrs. and H. M. M. Perry-coste. "Polperro, Couch" (*Flora*). Not found there by the Perrycostes. Tywardreath, 1917, Miss A. B. Cobbe. Waste-ground by railway near Par Sands, 1919, Rilstone. Par Harbour, 1921, Medlin.

*B. juncea*, Coss. Alien. "Cultivated in temperate and tropical Asia for the same purpose as *B. alba* in Europe." Dunn. 3. Par Harbour, 1914, Vigurs, *B.E.C.*, 1914, p. 61; 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 96. 6. Falmouth Docks, 1917, Miss M. Cobbe.

**Diplotaxis tenuifolia**, DC.

3. Charlestown Harbour, 1916, Tresidder.

5. One plant, Newquay, 1915; many in the same place, 1919, Vigurs.

6. Near Gyllyngvase, Falmouth, 1917, Miss M. Cobbe.

**D. muralis**, DC.

5. Perranporth, 1916, Thurston.

6. Penpoll, Feock, Davey, *R.I.C.*, 1911, p. 376.

8. Path to Clodgy, St. Ives, 1912, Thurston. Porthgwarra, Rev. H. E. Fox, *R.I.C.*, 1911, p. 376. Tresco, Scilly Isles, 1921, Downes.

Var. **Babingtonii**, Syme.

8. Beach between Marazion and Penzance, 1913, Miss M. Cobbe.

*Eruca sativa*, Mill. 3. "Once noticed by Mr. Tellam at Par" (*Flora*). Par Harbour, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 96.



*Moricandia arvensis*, DC. 6. "Falmouth Docks, Bullmore" (*Flora*). Seen there in 1911, Davey.

**Capsella Bursa-pastoris**, Medic. (*Bursa Pastoris*, Weber).  
See "*Studies by Ernst Almquist*," with introduction by G. C. Druce," *B.E.C.*, 1920, pp. 179-207.

**Coronopus didymus**, Sm.

2. Pillaton and Millbrook, Hawk, *R.I.C.*, 1911, p. 376.
3. Charlestown, Tresidder.
6. Veryan, 1913, Thurston.
8. Pra Sands, 1911, Davey. Gulval; Madron, 1913, Miss M. Cobbe.

**C. procumbens**, Gilib.

1. Boscastle, 1915, Thurston.
7. Poltesco, 1914, Thurston.

**Lepidium ruderales**, Linn.

1. Railway Station, Launceston. Shown to E. Thurston by W. Wise, 1915.
3. Charlestown Harbour, Tresidder.
6. "Falmouth" (*Flora*). Fowl-run, Falmouth Docks, 1917, Thurston.

\***L. neglectum**. Thell. *Bull. Herb. Boissier*, IV. 708. Alien. North America.

3. Par Harbour, 1912, Vigurs, *B.E.C.*, 1914, p. 61.
5. Rialton Mill, St. Columb Minor, 1915, Vigurs.
6. Waste-heap, Penryn, 1921, Tresidder.

"This newly described species so resembles *L. ruderales* as to make it desirable for members to carefully examine their herbarium specimens. . . . The chief mark of distinction is (as pointed out by Mr. C. E. Salmon, *Journ. Bot.*, 164, 1911) that the seed of *L. neglectum* is more orbicular, and is surrounded by a winged margin." *B.E.C.*, 1911, pp. 9-10.

**L. sativum**, Linn.

3. Looe dust-heaps; Porthallow, Talland, Mrs. and H. M. M. Perrycoste.

## 6. Roadside, Nanpean, Medlin.

*L. virginicum*, Linn. 3. Par Harbour, 1919, Rilstone and Thurston. 6. Falmouth Docks, 1917, Thurston.

**L. campestre**, Br.

3. Par Harbour, Mrs. and H. M. M. Perrycoste; 1919, Rilstone.  
5. East Pentire, Newquay, 1912, Vigurs.

\***L. heterophyllum**, Benth. var. **alatostylum**, Towns.

Fairly common, Davey.

**L. Draba**, Linn.

3. Large patch on Warren Cliff, Polperro, during the last year or two, 1917, Mrs. and H. M. M. Perrycoste. Ballast-heap, Charlestown, Tresidder.

5. Patch on roadside, west cliff, Perranporth, 1916, Thurston. Railway embankment near Angarrack, 1911, Davey.

8. Eastern beach, Penzance; abundant at Bodilly Mill and in Bedford Bolitho gardens, Penzance, 1921, Rees.

\*Var. **subintegrifolium**, Mich.

3. Par Sands, 1920, Thurston, *B.E.C.*, 1920, p. 112.

8. Eastern Sands, Penzance, 1921, Thurston.

\**L. chalepense*, Linn, var. *auriculatum* (Boiss). Alien. Orient.

3. Par Sands, Rilstone, *B.E.C.*, 1917, p. 97.

*L. perfoliatum*, Linn. 3. Par Harbour, 1911, Druce, *Journ. Bot.*, 1911, p. 303; *B.E.C.*, 1911, p. 73. Fowl-run, Par, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 97.

\**L. densiflorum*, Schrad. Alien. New Zealand. 3. Fowl-run, Par, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 97. Ballast-heap, Charlestown, 1920, Mrs. Wedgwood.

**Thlaspi arvense**, Linn.

1. Plentiful in cornfield. Heydah, Week St. Mary, 1917. Tresidder. Bude, 1918, Harvey.

3. Add to Perrycoste's record (*Flora*) Plentiful in garden patches on east cliff, Polperro, once or twice since 1901, and can now be generally found. Bodinnick near Fowey, Rilstone. Charlestown, 1914, Tresidder.

4. One plant at Delabole railway-station, 1918, Miss Berenice d'Avigdor.
5. Cornfield, Phillack, 1915, Rees.
6. Falmouth Docks, 1917, Miss M. Cobbe. Hicks Mill, Gwennap. 1920, Harvey.
7. Field, Poltesco; farmyard, Cadgwith, 1914, Miss M. Cobbe.
8. Land's End, 1913, Miss A. B. Cobbe.

\**Iberis umbellata*, Linn. Alien. 3. Garden escape, Par, 1915, Vigurs.

**Teesdalia nudicaulis**, Br.

3. Starrick Moor, St. Austell, Medlin. Trenarren near Pentewan, Tresidder.
6. Nanpean, Medlin.
8. Cliff west of Porthleven, 1898, F. H. Perrycoste.

\**Isatis tinctoria*, Linn. Casual.

Recorded as an error in the *Flora*, but now included.

5. Garden weed, Lambourne Hill, Perranzabuloe, 1917, Rilstone.

**Crambe maritima**, Linn.

8. Five small plants between Long Rock and Penzance, 1911, Davey. Tresco, Scilly Isles, 1921, Downes.

*Rapistrum rugosum*, All. 3. "Par, Tellam" (*Flora*). Very common at the harbour during the last few years, Davey, *W.E.C.*, 1911-12, p. 331. 6. Waste-heap, Penryn, 1921, Tresidder. 8. Waste-ground near Hayle Causeway, fruits very hairy, 1921, Thurston.

*Vogelia sagittata*, Medik (*Neslia paniculata*, Hornem). 3. Par Harbour, 1913, Vigurs; T917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 97.

**Cakile maritima**, Scop.

3. Talland, 1918, Miss H. M. M. Perrycoste. Lansallos and Lantivet beaches, Rilstone. Charlestown, 1918, Tresidder.
5. Sandy cornfield near Porthcothan, with *Eryngium maritimum*, *Convolvulus Soldanella*, *Lycopsis arvensis*, *Salsola Kali*, and *Polygonum Raii*, 1921, H. S. Thompson.
6. Pendower beach, Gerrans Bay, 1913, Thurston.
8. Lelant side of Hayle ferry, 1912, Thurston.



**Raphanus Raphanistrum**, Linn.

5. Goonlaze, St. Agnes, 1911, Tresidder.
6. Churchtown Farm, Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 376.
8. Seashore near Lariggan, Penzance, 1915, Rees.

*R. sativus*, Linn. 3. Par Sands, 1915, Thurston.

**R. maritimus**, Sm.

3. Cliff between Talland and Polperro, Mrs. and H. M. M. Perrycoste. Charlestown, Tresidder.
5. Hayle, 1861, Herb, Penzance Museum.
6. Pendower beach, Gerrans Bay, 1913, Thurston.
7. Poltesco, 1914, Thurston.

\*Forma **albiflora**.

3. Par Sands, 1920, Skottsberg and Thurston.
5. Roadside near Fistral beach, Newquay, 1922, Thurston.

**RESEDACEÆ.****Reseda alba**, Linn.

2. St. Germans, 1911, Druce, *Journ. Bot.*, 1911, p. 303.
3. Ballast-heap, Charlestown, Tresidder.
8. "Between Marazion and Penzance" (*Flora*). Railway-bank, Marazion, 1915, Rees.

**R. lutea**, Linn.

1. Railway-station, Launceston. Shown to E. Thurston by W. Wige, 1915.
3. "Polperro, Couch" (*Flora*). Not found there by the Perrycostes. Ballast-heap, Charlestown, Tresidder.
4. Railway near Delabole Station, 1918, Harvey.
5. Field near "Tressilian," Harlyn Bay, 1918, Thurston. Carnkief, Perranzabuloe, Tresidder. Gwithian Churchtown. Abundant at Trevarnon Round near Gwithian, 1921, R. L. Smith and W. D. Watson.
6. Between Truro and Malpas, 1909, Borlase. One plant by side of main road, Lanner, 1921, R. L. Smith and W. D. Watson.

\*Var. **longifolia**, Ten.

3. Par, 1908, Druce, *B.E.C.*, 1919, p. 641.

\***R. inodora**, Reichb. Alien.

3. Par Harbour, thoroughly established, Davey, *R.I.C.*, 1911, p. 376.

6. Falmouth Docks, Davey, *loc. cit.*

## VIOLACEÆ.

\***Viola epipsila**, Led.

3 & 4. Innis Downs, 1912, Vigurs.

4. Roche Holy Well, 1911, Vigurs.

5. Quintrell Downs, 1905; Penhallow Moor, Newlyn East, Vigurs, *R.I.C.*, 1913, p. 223.

7. Frequent in bogs, upper part of the Cober Valley, Marshall, *Journ. Bot.*, 1918, p. 186.

I find this species much more plentifully than the true *V. palustris*, and think that, if field botanists studied the plants, it would be found that *V. epipsila* is the common Cornish marsh violet. C. C. Vigurs.

\*Forma **glabrescens**, Asch & Graeb.

5. Quintrell Downs, Vigurs, *R.I.C.*, 1913, p. 223.

\*Forma **minor**, Gregory.

5. Quintrell Downs, Vigurs, *loc. cit.*

\*Hybrid. **V. epipsila** × **palustris**.

5. Quintrell Downs, Vigurs, *loc. cit.*

**V. odorata**, Linn.

3. Between Sowden's Bridge and Duloe; lime-kiln, Talland Sands, first seen in 1910, now abundant, Mrs. and H. M. M. Perrycoste. Polmear Hill near Par, Medlin.

8. Bloom fields and near Boscathnoe lane, Penzance; Madron, Rees.

Forma **alba** (Lange).

1. Poughill, 1915, Thurston.

3. Below Sowden's Bridge, Trelawney river; on bank at Sclerder, Talland; orchard, Landavidy, Polperro; one or two plants near coastguard buildings, Polperro, Mrs. and H. M. M. Perrycoste. Polmear Hill, near Par, Medlin.
4. St. Kew, 1915, Thurston.
8. Many spots about Penzance, Rees.

\*Var. **rubro-purpurea**, Gregory.

5. "A highly scented reddish violet from Newquay, 1915. It had been growing there in an orchard for many years." Mrs. Gregory, *B.E.C.*, 1917, p. 148 B.

**V. hirta**, Linn.

3. Abundant at Polperro, first seen in 1910; hedge, Tredudwell between Polperro and Fowey (white flowered), Mrs. and H. M. M. Perrycoste. Par Moor, Medlin.
4. Castle Killibury, 1915, Thurston.
5. Southern slope of East Pentire, Newquay, Vigurs.
6. Lane to Pendower beach, Gerrans Bay, 1913, Thurston.
7. Near Poldhu; Chypons near Mullion, 1914, Miss M. Cobbe.

\*Var. **ænochroa**, Gillot & Ozan.

1. Bude golf-links, 1917, Harvey, *B.E.C.*, 1917, p. 148 C.

\*Var. **propera**, Jord.

1. Bude golf-links, Harvey, *loc. cit.*

\*Var. **pinetorum**, Wiesb.

1. Bude golf-links, Harvey, *loc. cit.*

Var. **Foudrasi**, Jord.

1. Bude, 1921, Harvey.

Hybrid **V. hirta** × **odorata** (*V. permixta*, Jord).

1. Bude, 1921, Harvey.

**V. calcarea**, Gregory.

5. "Perranporth Sandhills" (*Flora*). "A hoary form of this violet, especially hairy on the petioles and under surface of leaves, has come to me from sandhills between Newquay and Perranporth." Mrs. Gregory, *British Violets*, 1912, p. 29.



**V. sylvestris**, Kit.

3. One or two plants in hedge of abandoned road, Talland, 1912-14, but missing since, Mrs. and H. M. M. Perrycoste.

**\*V. Riviniana**, Reichb, var. **diversa**, Gregory.

5. East Pentire, Newquay, 1912, Vigurs. *R.I.C.*, 1913, p. 226.
6. Grampound Road Station, 1912, Vigurs, *loc. cit.*

**\*Forma nemorosa**, Neum.

5. Perranporth Sandhills, 1911, Davey. Mrs. Gregory, *British Violets*, 1912, p. 29.
7. Kynance Downs, 1921, W. Watson.
8. Gulval Down; Lelant; above Sennen Cove, 1921, W. Watson.

**\*Forma minor**, Gregory.

1. Bude golf-links, 1917, Harvey. Boscastle, 1915, Thurston.
5. Perranporth Sandhills, 1911, Davey.
7. Pradannack Downs, 1914, Thurston.

**V. canina**, Linn.

3. One plant on south shore of Dozmary Pool, 1921, H. S. Thompson.

**\*Var. subulata**, Reichb.

5. East Pentire, Newquay, Vigurs, *R.I.C.*, 1913, p. 226.

**\*Var. pusilla**, Bab.

5. East Pentire, Newquay, Vigurs, *loc. cit.*

**V. lactea**, Sm.

4. Castle Killibury, 1914, Thurston.
7. Helston, *B.E.C.*, 1917, p. 148 F. "Above Kynance" (*Flora*). "Kynance Downs, with many intermediates," Miss Larter. Mrs. Gregory, *British Violets*, 1912, p. 91.

**\*Var. pumiliformis**, Rouy & Fouc.

4. Rock Sandhills, 1915, Thurston.
5. Trevellas Porth; Cross Coombe; lane to Wheal Prudence near Perranporth, 1916, Thurston.
7. Pradannack Downs, 1914, Miss M. Cobbe, *B.E.C.*, 1916, p. 474.
8. Carbis Bay, 1921, Rees.

Hybrid **V. lactea** × **canina** (*V. lactea*, var. *intermedia*, Wats).

4. Rock Sandhills, 1915, Thurston.

5. "Open Downs near the sea, St. Agnes. The commonest form of violet on the Downs, the only others noticed being *V. lactea*, Sm (in small quantity), and a few plants of *V. Riviniana*, Reichb." Rilstone, *B.E.C.*, 1914, p. 123. Porth-Towan, Davey. Mrs. Gregory, *British Violets*, 1912, p. 94.

It may be noticed that, except in District 8, *Viola canina*, Linn, is of rare occurrence, and its association with the hybrid has not been recorded.

\*Hybrid. **V. lactea** × **Riviniana**.

3. Bodmin Moor; Liskeard-Lostwithiel road near West Tap-house; lane from the same road to Glynn Valley (very near *Riviniana*), 1920, Thurston.

4. Rock Sandhills, 1916, White. "The small rounded leaves, and long, slender peduncles, point to the joint parentage of *V. lactea*." Mrs. Gregory, *B.E.C.*, 1917, p. 211.

6. Silverhill, Perran-ar-worthal, 1912, Davey, *R.I.C.*, 1913, p. 227.

7. Kynance, 1910, Miss Larter, *loc. cit.*

A series of intermediates (ternary hybrids) between *V. canina*, *V. lactea*, and *V. Riviniana*, was sent to Mrs. Gregory by Miss Larter from Kynance Downs. "These plants possess the habit of one species, the leaves and stipules of a second, the flowers of a third, in an infinite variety of combinations." Mrs. Gregory, *British Violets*, 1912, p. 96.

8. Some pale flowered plants above Gulval and Paul were probably this hybrid, 1921, W. Watson.

**V. arvensis**, Murr, forma **segetalis** (Jord).

5. Common round Newquay, Vigurs.

\*Forma **Déséglisei** (Jord).

5. Pentire, Newquay, E. and H. Drabble, *Supp. Journ. Bot.*, 1909, p. 19; *R.I.C.*, 1911, p. 376.

\*Forma **variata** (Jord).

8. St. Just, J. Groves teste Drabble. *Supp. Journ. Bot.*, 1909, p. 22; *R.I.C.*, 1911, p. 376.

\*Var. **ruralis** (Corb).

5. Embankment of new Reservoir for Newquay on Cosworth Downs, 1908, Vigurs.

\*Var. **obtusifolia** (Jord).

6. Ponsanooth, Davey, *R.I.C.*, 1911, p. 376.

## POLYGALACEÆ.

**Polygala oxyptera**, Reichb.

5. Trewerry, Newlyn East, 1908, Rogers, *Journ. Bot.*, 1909, p. 173, Newquay Headland, 1911, S. H. Bickham.

## CARYOPHYLLACEÆ.

**Dianthus Armeria**, Linn.

3. Kits Hill, Polperro, on seaward slope, and at foot of west slope by Fishna Bridge, Mrs. and H. M. M. Perrycoste.  
 5. Railway embankment between Hayle and Gwinear Road, 1914, Rees.  
 6. Falmouth, 1911, Miss Blackett.  
 8. Bank, Hayle Pool, 1915, Rilstone. Between Marazion and Penzance, 1911, Druce.

\***D. deltoides**, Linn. Casual. 5 Angarrack near Hayle, 1912. Rees.

\***Gypsophila porrigens**, Boiss. Alien. Garden origin. 3. Ballast-heap, Charlestown, 1915, Tresidder.

**Saponaria Vaccaria**, Linn.

3. Looe, 1916, Mrs. and H. M. M. Perrycoste.  
 5. Lambourne Hill, Perranzabuloe. Rilstone. Reen Farm, Perranzabuloe, *R.I.C.*, 1911, p. 376. Perranwell, Perranzabuloe, Tresidder. Sandy cornfield, Phillack, 1915, Rees.

**S. officinalis**, Linn.

3. "Polperro, Couch" (*Flora*). Not found in Polperro; near Bogga Mill, Lanreath, Mrs. and H. M. M. Perrycoste. St. Winnow, Rilstone. Railway bank, Liskeard, 1921, R. L. Smith and W. D. Watson.



5. Porth Towan, 1912, Thurston. Hedge at Phillack, Rees.
6. Tregoney by side of street about 1907, F. H. Perrycoste. Bissoe, 1921, R. L. Smith and W. D. Watson.
8. St. Erth, Thurston. Clowance on roadside between Praze and Leedstown, 1921, R. L. Smith and W. D. Watson.

Var. **puberula**, Wierzb.

5. Tolskithy near Redruth, 1911, Davey.

\**S. ocymoides*, Linn. Alien. 5. Railway-bank between Hayle and Gwinear, Rees. 7. Site of burnt down Polurrian hotel near Mullion, 1913, Perry.

***Silene latifolia***, Rendle & Britten, var. **puberula** (Jord).

5. Newquay, Vigurs. Lanteague, Newlyn East; Nathaniels, St. Allen; Rose, Perranzabuloe, Tresidder.

*S. latifolia*, Rendle & Britten, var. *parvifolia* (*Flora*) should go under *S. maritima*. Vide Druce, *Journ. Bot.*, 1911, p. 56.

***S. maritima***, With. var. **parvifolia**, Druce.

3. Par Sands, 1911, Vigurs. "Not quite so extreme as the plants from Mr. Druce's original locality at Loe Bar." *B.E.C.*, 1911, p. 76.
7. Loe Pool Bar, 1914. The Rev. E. S. Marshall studied this at Loe Bar, and came to the conclusion that it is "an extreme state, due to exposure and starvation, rather than a good variety. On the neighbouring cliffs one could find many connecting links between this and the ordinary form." *Journ. Bot.*, 1918, p. 186.

\****S. conica***, Linn. Casual.

Recorded as an error in the *Flora*, but now included.

3. Ballast-heap, Charlestown, one plant, 1916, Tresidder.

*S. dichotoma*, Ehrh. 3. Par Harbour, Vigurs, *R.I.C.*, 1911, p. 376. 5. Near Goonhavern, 1913, Tresidder. 6. Falmouth Docks, 1911, Davey.

\****S. gallica***, Linn. Casual.

Generally regarded as synonymous with *S. anglica*, but given specific rank in Druce, *List of British plants*, 1908.

3. In a stone-yard, Charlestown, 1920, Tresidder.

**S. anglica**, Linn.

2. Pillaton, Hawk, *R.I.C.*, 1911, p. 377.
3. Portlooe near West Looe, Mrs. and H. M. M. Perrycoste.
4. Blisland, 1908. Harvey.
5. Trebelzew Big Field near Newquay, 1914, Vigurs. Sandy field, Phillack, Rees.
6. Veryan, 1913, Thurston. Short Lanes End near Truro, 1914, Rilstone. Lanner; St. Day, 1920, Harvey.
7. Near Crowan, Rev. H. E. Fox, *R.I.C.*, 1911, p. 377. Tremayne, Crowan, Tresidder, *ibid.* Ruan Major, 1914, Miss M. Cobbe. Near Mullion Cove, 1914, Thurston.
8. Cornfields, St. Just road, Ludgvan, Rees.

*Silene nutans*, Linn. 4. Ballast-heap, Charlestown, 1922, Tresidder.

**\*S. quinquevulnera**, Linn. Colonist.

5. Reen Farm; Wheal Hope; Goonhavern; Perran Sands (*B.E.C.*, 1913, p. 384), all in Perranzabuloe, Tresidder.
6. Waste ground between Truro and Malpas, Miss M. Cobbe. "A colonist likely to spread." *B.E.C.*, 1916, p. 475.
7. "Field near Ruan Minor, Misses Cobbe," *B.E.C.*, 1916, p. 475. For Minor read Major. Cornfield and pasture land, Mullion, 1922, Perry.
8. Hayfield, Lower Tremenhere, Ludgvan, 1915, Miss Waterer.

**\*S. pendula**, Linn. Alien. Garden origin. 3. Par, 1910, Druce, *B.E.C.*, 1913, p. 384. Par Harbour, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 99. 5. Mount Wise, Newquay, one fine plant near a fowl-run in a cottage garden, 1912, Vigurs, *B.E.C.*, 1913, pp. 384, 458.

**S. noctiflora**, Linn.

3. Polruan, 1919, Miss Margaret Baggallay. Par Sands, Miss Tuckey, *R.I.C.*, 1911, p. 377. Par Harbour, 1919, Rilstone.
5. Reen Farm, Perranzabuloe, 1913, Tresidder. Manure-heap, Penwortha. and Lambourne Hill, both in Perranzabuloe, Rilstone. Plentiful in sandy field, Phillack, Rees.
6. Truro, Borlase, *R.I.C.*, 1911, p. 377. Between Mylor Bridge and the Church, Miss E. Blackett, *ibid.*
7. Near St. Keverne, P. D. Williams.
8. Near Marazion Station, 1913, Miss M. Cobbe. Perranuthnoe; St. Just, Rees.

**Lychnis alba**, Mill.

3. Portlooe near West Looe, 1917; also with pink flowers, Mrs. and H. M. M. Perrycoste.
5. Gwithian, rather common, 1921, R. L. Smith and W. D. Watson.

**L. Githago**, Scop.

2. Pillaton, Hawk, *R.I.C.*, 1911, p. 377. St. Cleer, Harvey.
6. Between Port Holland and Veryan, 1913, Thurston. St. Clements, and other places near Truro, 1911, Foott. Lanner, two plants, 1921, R. L. Smith and W. D. Watson.
8. St. Ives, in flower, May, 1912, "July-August" (*Flora*), Thurston. Near Long Rock, Ludgvan; "Penzance, Ralfs" (*Flora*). Cornfield, Trevaylor near Penzance, Rees.

\**L. Coronaria*, Desr. Alien. Garden origin. 3. One plant, Par Harbour, 1914; several plants, 1917, Vigurs.

**Cerastium pumilum**, Curt.

Recorded, apparently by mistake, in *Top. Bot.*, 1873, p. 94, from "Corn. West, C. C. B. (Babington) 1839."

**C. semidecandrum**, Linn.

5. Gannel, Newquay, 1911, Davey. Gear Sands, Perranporth, Rilstone.
8. Fixed sands between Marazion and Penzance, W. Watson.

**Mœnchia erecta**, Gaertn, Mey. & Scherb.

3. Gribbin Head, Medlin. "Near St. Austell, Tellam" (*Flora*). Carthew, St. Austell; Trenarren near Pentewan, 1921, Tresidder.
6. Gorran Haven, Vigurs and Reid. Idless near Truro, Rilstone, *R.I.C.*, 1911, p. 377.
8. Zennor Head, 1921, Rees.

**Stellaria apetala**, Ucria. (*S. Borœana*, Jord).

5. Perranporth, 1911, Davey.
6. Tregoney; near Philleigh, 1913, Thurston.
8. Hayle Towans (sand-dunes); Lelant golf-links; sands between Marazion and Penzance, 1921, W. Watson.



**S. neglecta**, Weihe.

5. Trewollock; Tretherras; Tregenna, all in St. Columb Minor, Vigurs.

Var. **umbrosa** (Opiz).

5. Mawgan-in-Pydar, 1920, Vigurs.

**S. graminea**, Linn. var. **latifolia** (Godron), Rouy & Fouc.

6. Chyvoque, Perranwell, 1911, Druce, *New Phyt.*, 1911, p. 309.

\***Arenaria tenuifolia**, Linn. Casual.

Recorded as an error in the *Flora*, but now included.

3. Ballast-heap, Charlestown, 1920, Tresidder, *B.E.C.*, 1920, p. 116.

**A. serpyllifolia**, Linn.

3. Old mine-working, Cheesewring, 1920, Harvey. Charlestown, Tresidder.  
4. Rock, St. Minver, 1915, Thurston.  
5. Mithian, 1912, Rilstone.

Var. **macrocarpa**, Lloyd (*A. Lloydii*, Jord).

3. Par Sands, 1920, Rilstone, *B.E.C.*, 1920, p. 216.

**A. leptoclados**, Guss.

2. Cremyl, 1908, Vigurs.  
8. Carbis Bay, 1912, Thurston.

**A. peploides**, Linn.

6. Pendower beach, Gerrans Bay, 1913, Thurston.  
8. Pra Sands, 1911, Davey.

**Sagina maritima**, Don.

3. Charlestown. 1915, Vigurs. Pentewan Sands, 1920, Thurston.  
5. Trevellas Porth; St. Agnes Cliffs, and Chapel Porth, St. Agnes, Rilstone.  
6. "Flushing" (*Flora*). Path from beach to Mylor Church, 1917, Rilstone. Falmouth Docks, 1911, Davey.

Var. **debilis** (Jord).

3. Par Sands, 1920, Rilstone. "A weak and small state of var. *debilis*, Jord, having decumbent stems, flexuous peduncles, and no central rosette." Wheldon, *B.E.C.*, 1920, p. 217.
5. Newquay, 1911, Davey.

**S. apetala**, Ard.

3. Par, 1911, Davey.
5. St. Columb Porth, 1916, Thurston.
6. Porthcuel, Gerrans, 1917, Thurston. Devoran; Perran-ar-worthal; Ponsanooth; Penryn, Davey, *R.I.C.*, 1911, p. 377.
7. Gweek Bridge; Coverack; Mullion Cove, 1917, Thurston.

Var. **prostrata**, Gibs.

6. Penryn station platform, Davey, *R.I.C.*, 1911, p. 377.

\*Var. **barbata**, Fenzl.

3. Dry rock face, Polperro, 1920, Rilstone. "The more frequent form," *B.E.C.*, 1920, p. 217.

**S. ciliata**, Fr.

3. Cliff, Polperro, 1919, Rilstone.

**S. subulata**, Presl.

3. Fowey, 1917, Miss M. Cobbe.
4. Polzeath, Rev. H. E. Fox, *R.I.C.*, 1911, p. 377.
5. St. Agnes Cliffs; Wheal Butson near St. Agnes, Rilstone. Trevellas Porth, St. Agnes, 1916, Thurston.
7. Goonhilly Downs, Rev. H. E. Fox, *R.I.C.*, 1911, p. 377. Kynance and Pradannack Downs, 1914, Thurston.
8. Lamorna Cove, 1921, Thurston and Rilstone.

**S. nodosa**, Fenzl.

5. Between Perran Round and the "Lost Church," 1911, Mrs. Wilson L. Fox. Perranwell, Perranzabuloe, Tresidder.
7. Near Ruan Major, Mrs. and H. M. M. Perrycoste.

\*Var. **monilifera**, Lange.

5. Copperhouse, Hayle, 1911, Davey, *R.I.C.*, 1913, p. 227.

**Spargula arvensis**, Linn.

Also known as Devil's Beard.

**S. sativa**, Boenn.

3. Luxulyan, 1911, Vigurs.
5. Newquay, 1909, Vigurs.
6. Waste-ground between Truro and Malpas, 1914, Miss M. Cobbe.
8. Pra Sands, 1911, Davey. Near Chy-an-hal Moor, 1921, W. Watson.

**Spergularia atheniensis**, Aschers. & Schweinfurth. Denizen.

Previously found only in the Channel Islands. Very like *S. rubra*, but the stipules are broadly triangular and dull brown, instead of being lanceolate and shining silvery. Vigurs, *R.I.C.*, 1913, p. 224. It is regarded by Thellung as a sub-species of *rubra*.

3. Par Harbour, 1901, Hume, as *S. rubra*. Plentiful around the harbour, Vigurs. Ballast-heap, Charlestown, Tresidder, *B.E.C.*, 1918, p. 372.

**S. rubra**, Pers.

2. " St. Germans Beacon " (*Flora*). In *B.E.C.*, 1872-4, Mr. T. A. Briggs records for this spot a glandular form of *S. rubra* something between that species and *rupestris*. In *B.E.C.*, 1915, p. 189, Mr. Druce suggests searching the locality, to see if this plant may not be *atheniensis*.
3. " Par, Tellam " (*Flora*). Delete the record. St. Blazey station, plentiful about 1912, Vigurs.
6. Carnon Croft, Kea, 1911, Davey. Grassy bank at lower end of Mabe Reservoir, 1917, Rilstone.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 377. Lizard and Kynance, 1911, Davey. Quarry near Mullion Cove, 1914, Thurston.
8. Land's End, 1911, Davey.

**S. salina**, Presl.

2. Salt-marsh, St. Stephens, Hawk, *R.I.C.*, 1911, p. 377.
3. Par Sands, 1915, Thurston.
5. Porth near Newquay, Vigurs.
8. St. Erth; salt-marsh, Lelant, 1912, Thurston.

Var. **neglecta** (Syme).

5. Sandy mud, Porth near Newquay, 1912, Vigurs, *B.E.C.*, 1912, p. 238.



It is probable that, up to the time of the publication of Davey's *Flora*, var. *neglecta* was used to include the glandular form of *S. salina*, irrespective of seed-surface (*vide Bab. Man., ed., IX., p. 68*), though Hooker's *Student's Flora, ed., III.,* says:—"glandular above . . . seeds papillose." Since 1912 the name var. *neglecta*, Syme, is apparently applied to those plants having papillate seeds, without reference to glandulosity. Vigurs, *Vide B.E.C., 1912, p. 238; 1913, p. 460; W.E.C., 1912-13, p. 387.*

***S. marginata*, Kittel.**

6. Ditch, Ruan Laniorne, 1913, Thurston.

***S. rupestris*, Lebel.**

5. Constantine, St. Merryn, 1921, Devis. Rolley, river Gannel, Newquay, Vigurs, *B.E.C., 1912, p. 237.*  
 6. Pendower beach, Gerrans Bay, 1913, Thurston.  
 7. Coverack, Rev. H. E. Fox, *R.I.C., 1911, p. 377.*  
 8. Pra Sands, 1911, Davey.

Var. ***glabrescens*, Lebel.**

5. Headland, Newquay, 1912, Vigurs, *B.E.C., 1912, p. 237.*  
 6. Portloe near Veryan, 1913, Thurston.

***Polycarpon tetraphyllum*, Linn.**

"Native" (*Flora*). Except in the Lizard district, I think this plant is always an alien. Vigurs.

3. Par, Davey. Ballast-heap, Charlestown, 1915; one plant, 1920, Tresidder.  
 7. "Banks near Cadgwith, Cunnack" (*Flora*). Seen there in 1914 by Miss Cobbe; 1922, Downes.

## PORTULACEÆ.

*Claytonia perfoliata*, Donn. 6. Hedge near a house between Penryn and Constantine, Henderson, *R.I.C., 1911, p. 377.*

***Montia verna*, Necker. (*M. fontana*, Linn).**

3. Trenarren near Pentewan, Tresidder.  
 5. Treby Water, St. Columb Minor, Vigurs. East Pentire, Newquay, Druce, *R.I.C., 1913, p. 227.*  
 6. Perranwell, Druce, *loc. cit., p. 310.*

\*Var. **intermedia** (Beeby).

"Cornwall," *B.E.C.*, 1908, p. 332.

**M. minor**, Gmel.

1. Cliff-path, Boscastle, 1915, Thurston.
7. Lizard Downs, 1911, Miss A. M. Geldart. "Apparently *M. minor*, Gmel, a *chondrosperma*, Fenzl., *W.E.C.*, 1911-12, p. 333.

## TAMARICACEÆ.

**Tamarix gallica**, Linn.

4. Near Rock, St. Minver, 1915, Thurston.
5. Fir Hill, Colan, Tresidder.
7. Cadgwith, 1914, Thurston. Mullion, 1911, Davey.

## HYPERICACEÆ.

**Hypericum hircinum**, Linn.

5. Disused cottage garden, Summercourt, St. Enoder, 1914, Vigurs.

**H. elatum**, Ait.

3. Polperro, 1914; Bodinnick near Fowey, Rilstone.

**H. calycinum**, Linn.

3. Many places in the neighbourhood of Lostwithiel, 1920, Thurston. Bodelva, St. Blazey, Medlin.
6. Mylor, 1921, R. L. Smith and W. D. Watson.

**H. maculatum**, Crantz.

3. Lane to Sowden's Bridge, Trelawney river, 1919, Thurston.

\***H. Désétangsii**, Lamotte.

5. Spontaneously in the garden of the Rev. G. B. Hooper at Camborne, *B.E.C.*, 1913, p. 314; *Journ. Bot.*, 1914, p. 18.
- In a note on *H. Désétangsii* from Lewes, Sussex, the Rev. E. S. Marshall writes:—"This is, I suppose, the same thing as *H. maculatum*, Crantz., var. *Babingtonii*, H. & J. Groves (*Bab. Man.*, ed. IX., p. 74)=*H. dubium*, Leers, var. *maculatum*, Bab." *W.E.C.*, 1917-18, p. 55.

**H. undulatum**, Schousb

5. Near Porthcothan, 1921, Devis. Penhallow, Perranzabuloe, 1912; Marsh near Perranporth, 1916, Rilstone, *B.E.C.*, 1917, p. 215.
7. Stream by roadside about six miles from Helston on Lizard road, 1911, Davey.
8. Lazingey Moor near Penzance, Rees.

**H. linariifolium**, Vahl.

Recorded in the *West Briton*, 10th July, 1913, as having been found by a schoolchild at Treverbyn. A specimen, which was shown to me, proved to be *Hieracium aurantiacum*. C. C. Vigurs. Recorded by mistake for Cornwall instead of Devon, *Ann. Rep. Bristol Naturalist's Society*, 1919, p. 17.

**H. humifusum**, Linn, var. **magnum**, Bâtard (var. *decumbens*, Peterm).

- “West Cornwall,” Pugsley, *Journ. Bot.*, 1915, p. 163.
8. Near Badger's Cross below Castle-an-Dinas, 1921, W. Watson.

\*Var. **ambiguum**, Gillot.

7. Lizard Downs, 1920, Skottsberg and Smith-Pearse. Kynance, 1920, Miss Berenice d'Avigdor. “It has broader leaves than Gillot's plants, and appears to be identical with the example collected at the Lizard by Johns many years ago. It is quite distinct from *H. linariifolium*, var. *approximatum*, which has very much larger flowers.” Pugsley, *in lit.*
8. Land's End, Pugsley, *Journ. Bot.*, 1915, p. 169; *B.E.C.*, 1915, p. 190.

A plant near var. *ambiguum* was collected at the Lizard by Lady Davy. “Sepals are less glandular, and the flowers seem smaller,” teste Pugsley, *B.E.C.*, 1917, p. 100.

\*Forma **crassum**, Pugsley.

8. Cape Cornwall, Mr. Bailey, *Journ. Bot.*, 1915, p. 169.

**MALVACEÆ.****Lavatera cretica**, Linn.

8. Phillack Towans (sand-dunes), 1915, Rees.



\**L. Thuringiaca*, Linn. Alien. Garden origin. 8. Hayle, 1917, Rilstone, *B.E.C.*, 1917, p. 100.

**Malva moschata**, Linn.

1. Launcells, 1907, Harvey.
3. Add to "Polperro" (*Flora*) in Landaviddy only. Side of turnpike near Coldrenick; Morval Park; roadside between Polperro and Fowey near Mabel Barrow, Mrs. and H. M. M. Perrycoste. Charlestown, Tresidder.
6. One plant at "Greatwood," Mylor, 1921, R. L. Smith and W. D. Watson. Veryan; lane to Pendower beach, Gerrans Bay, 1913, Thurston.
7. St. Keverne, Rev. H. E. Fox, *R.I.C.*, 1911, p. 377.

\***Forma alba**.

5. Downs near Ventongimps Mill; near Lambriggan, Perranzabuloe, 1911, Rilstone. Railway embankment west of Angarrack viaduct, near Hayle, 1915, Rees.
6. Perran-ar-worthal, Davey, *W.E.C.*, 1911-12, p. 333.
8. Marazion railway station, Rees.

Var. **heterophylla**, Lej.

5. Between Padstow and Stepper Point, 1918, Miss Evelyn Travers.
7. Between Mullion village and Cury Cross, Tansley, *R.I.C.*, 1911, p. 377.

\***M. sylvestris**, Linn, var. **angustiloba**, Celak.

3. Par Harbour, 1910, Druce and Vigurs, *B.E.C.*, 1912, p. 156. The variety has three to five (instead of five to seven) long lobes. Apparently a first British record. Recorded in *B.E.C.*, 1912, p. 240, and *R.I.C.*, 1913, p. 227, as *acutiloba*.

**M. rotundifolia**, Linn.

3. Charlestown, Tresidder.
5. Sea Mill near St. Issey, 1918, Thurston.

**M. pusilla**, Sm.

2. "By the village to Screasdon Fort" (*Flora*). Perhaps the same place as "Anthony, Cornwall," *Bab. Man.*, ed. IX., 1904, p. 70.
3. Field above Warren, Polperro, 1917, Mrs. and H. M. M. Perrycoste.



5. Goonhavern, Rilstone. Carnkief Farm, Perranzabuloe, Tresidder.
6. One plant in vegetable garden, Philleigh, 1913; fowl-run, Falmouth Docks, 1917, Thurston. Hicks Mill, Gwennap, 1920, Harvey.

### LINACEÆ.

#### *Radiola linoides*, Roth.

1. Kensey Valley. Shown to E. Thurston by W. Wise, 1915.
3. Bodelva near St. Blazey; Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 377.
5. Between Penhallow and Miry Bottom, 1912; Wheal Butson, and Moor near Goonbell, St. Agnes, 1911, Rilstone.
6. Nanpean, Medlin.

#### *Linum usitatissimum*, Linn.

1. Two plants on waste-ground by roadside, Boscastle, 1915, Thurston.
5. Cornfield, Reskajue Downs between Portreath and Gwithian, 1921, R. L. Smith and W. D. Watson.

### GERANIACEÆ.

#### *Geranium sanguineum*, Linn.

1. " Garden outcast in quarry near Forrabury Church " (*Flora*). Patch in garden by path to cliff, Boscastle, and escaped thence, 1915, Thurston.

#### *G. versicolor*, Linn.

3. Polkerris, Medlin.
4. Kea Bridge, Blisland, 1908, Harvey. Lane from Burlorne to Hustyn Mill, St. Breock, 1915, Thurston.
5. Padstow Churchyard, 1918, Thurston.
6. Trewoon near St. Austell, Medlin. Sticker, Tresidder. Near Port Holland; Creed; Veryan, 1913, E. Thurston. Restronguet, Mylor, Barratt, *R.I.C.*, 1911, p. 377. Mylor village, 1921, R. L. Smith and W. D. Watson. Trelassick, Ladock, Mrs. Cookson, *ibid.* Fenwick road, Falmouth, 1917, Miss M. Cobbe.
7. Cadgwith, 1914, Thurston.
8. Patch over 30 yards in length on roadside bank, Gulval, 1921, Thurston.

**G. nodosum**, Linn.

5. "Hurling Barrow, St. Agnes" (*Flora*). Patch on roadside near Goonbell Halt, 1911, et seq, Rilstone.

**G. phæum**, Linn.

3. Carvis near Roche, 1916, Taylor.  
8. Boskedran near New Mill, Penzance, Hosking.

**G. pratense**, Linn.

1. By canal between Tamerton and Boyton, 1911, Harvey.  
3. Bank at Portlooe near West Looe, Miss C. Grigg.  
5. Crantock, 1911, Tresidder.  
6. Mylor Churchyard, Bastian, *Pol. Rep.*, 1856; *R.I.C.*, 1911, p. 377. Abundant there in 1918, Thurston. Truro, 1918, Tresidder.  
8. Near Boscathnoe Lane, Penzance, Rees.

**G. pyrenaicum**, Burm. fil.

2. Higher Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 378.  
3. Patch on roadside between Caracawn Cross, Hessenford, and Trerule Foot, 1919, Thurston. Cliffs east of Portlooe, and field on Portlooe Farm near West Looe, Miss C. Grigg. Lanwarnick, near Pelynt, Rilstone.  
5. One plant, Newquay, 1919, Vigurs. Phillack, Rees.  
7. Close to Mullion village, 1914, Perry.

**G. pusillum**, Linn.

5. Trevelgue near Newquay, 1914, Vigurs. Near Treago, Cubert Common, 1912, Rilstone. Perranporth, Tresidder.

**G. rotundifolium**, Linn.

5. Trebellan Hill, Cubert, 1909; roadside hedge near Mount, Perranzabuloe, 1916, Tresidder. Goonbell near St. Agnes, Rilstone.  
8. "Occasionally met with near Penzance" (*Flora*). Bloom fields near Penzance, Rees.

\*Forma **Thurstonii**, Druce.

3. Cliff, East Looe, first noticed in 1911 by Mrs. Perrycoste, abundant in 1919. Thurston. "Essentially different from the type in having the petals slightly emarginate. . . . If its more deeply lobed leaves and emarginate petals prove constant, it may be worthy of varietal distinction." Druce, *B.E.C.*, 1919, p. 551.

**G. lucidum**, Linn.

3. Roadside close to St. Martin Church, 1919, Thurston. Gribbin Head, Medlin.
5. Roadside near Goonbell Halt, 1912, Rilstone.

**G. modestum**, Jord.

3. Ballast-heaps, Par Harbour, 1911, Druce, *Journ. Bot.*, 1911, p. 302; *B.E.C.*, 1911, p. 79.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 378.

“*G. modestum* occurs in profusion over three separate areas in Cornwall, all near the sea. There are no intermediates between it and *Robertianum*. It has a rose-coloured corolla just half the width of *G. Robertianum* . . . ; corolla is more irregular, petals narrower and not overlapping, anthers bright yellow, not red, peduncles short, thick, and densely glandular-hairy, carpels blunt above, covered with raised lines and dots. I have tabulated the differences after examining many hundreds of plants at each locality, and *G. modestum* appears to be a perfectly good species, which is spreading from three well defined centres in Cornwall. *G. purpureum* I only know as a ballast casual at Par; it has purple anthers, and a curious elongated zig-zag panicle in fruit. Mr. E. G. Baker carefully examined my specimens with authentically named specimens from France of *G. modestum*.” Clement Reid, *B.E.C.*, 1909, pp. 429-30. See also note on “*Geranium purpureum*, Vill, and *G. Robertianum*, L.” by A. H. Evans, *B.E.C.*, 1919, pp. 724-26.

**Erodium cicutarium**, L'Hérit.

6. Carne near Veryan; Pendower beach, Gerrans Bay, 1913, Thurston.
8. Lelant, Rees. St. Ives, 1912, Thurston.

In a note on “Some segregates of *Erodium cicutarium*, L'Hérit” by Messrs. E. G. Baker and C. E. Salmon, the coast forms are split into five new species. “It would,” they write, “be very helpful if botanists, before drying their specimens, would note the following points:—Stem whether prostrate or ascending; size and colour of flower, and whether petals equal or unequal, spotted or not; colour of anthers, pollen, and stigma; whether filament is subdentate or gradually enlarged.” *Journ. Bot.*, 1920, pp. 121-27.

**E. moschatum**, L'Hérit.

1. Stratton, 1907, Harvey.
3. Cliff, East Looe, 1919, Thurston. Charlestown, Tresidder.
5. Trevornick, Cubert, 1912, Vigurs. Hayle Towans (sand-dunes), Rees.
8. Railway embankment, St. Erth, Rees. Marazion, Davey, *R.I.C.*, 1911, p. 378. Trannack near Penzance, Hosking, *ibid.* Between Long Rock and Penzance, 1911, Davey. Tolcarne near Castle Horneck; Porth Curnow, 1913, Miss M. Cobbe.

\*Forma **minor** (Rouy).

8. On a bank, Marazion, 1921, W. Watson.

**Oxalis corniculata**, Linn. (*O. stricta*, Robinson).

3. Charlestown, 1918, Tresidder.
6. Crelow, Stithians, 1915, Tresidder.
8. Hea Moor, Penzance, 1913, Miss A. B. Cobbe.

**O. stricta**, Linn. (*O. corniculata*, Robinson).

6. Probus village, 1913, Vigurs.
8. Gulval, 1913, Miss A. B. Cobbe.

\**O. repens*, Thun. Alien. Greenhouse and garden weed, St. Michael House, Newquay, 1913, Vigurs.

\**O. floribunda*, Lehm. Garden escape on waste ground near Falmouth Docks, 1917, Miss M. Cobbe. Det. with some slight doubt, A. Thellung, *B.E.C.*, 1917, p. 18.

\**O. latifolia*, H. B. & K. 8. A troublesome weed in cultivated ground, Penzance, 1921, Thurston.

**Impatiens glandulifera**, Royle.

3. "East Looe Valley" (*Flora*). Spreading rapidly, and now abundant at Sandplace. One plant in waste-ground, West Looe, 1919, Thurston. Valley above Crumplehorn, Polperro, where it was introduced from Looe Valley some years ago, 1920, Rilstone.
5. Plentiful at junction of head streams, and a few plants half a mile further down, flowers almost white, Porthcothan, 1921, Devis.
8. Big patch by stream near the shore, Carbis Bay, 1912, Thurston.



**CELASTRACEÆ.****Euonymus europæus**, Linn.

1. Thinwood, Week St. Mary, Tresidder.
3. Tywardreath, 1917, Miss M. Cobbe. Mount, Par, Medlin.
6. Lamorran Wood, 1913, Thurston. Margin of Mylor Creek; field hedge near Cosawes Viaduct, 1921, R. L. Smith and W. D. Watson.

**RHAMNACEÆ.****Rhamnus Frangula**, Linn.

1. Launcells, 1915, Harvey.
3. Looe, just above gas-works, Mrs. and H. M. M. Perrycoste. Trelawne near Looe, Rilstone. Par; St. Blazey, 1917, Miss M. Cobbe.
4. De Lank Valley, 1908, Harvey.

**ACERACEÆ.****Acer campestre**, Linn.

1. Brendon Barton, Week St. Mary, Tresidder.

**LEGUMINOSÆ.****Genista anglica**, Linn.

5. Railway-bank near Goonhavern Halt, 1916, Tresidder.
6. Tregassick, Ladock, Tresidder.

**G. pilosa**, Linn.

5. Lambourne, Perranzabuloe, 1912, Rilstone.

**G. tinctoria**, Linn, var. **littoralis**, Corbière.

1. Cliff, Boscastle, 1915, Thurston.
5. Cliff meadow at west end of Mother Ivey's Bay near Trevoze Head, 1918, shown to E. Thurston by C. G. Lamb. East Pentire, Newquay, 1912; Penhale near Cubert, Vigurs. "Fruit glabrous, so not var. *humifusa*, Dickson, as the Cornish prostrate form is generally called." *B.E.C.*, 1913, p. 464; 1914, p. 11. Perranporth, 1916, Thurston.

7. Coverack (var. *littoralis*?), Rev. H. E. Fox, *R.I.C.*, 1911, p. 378. Kynance Downs, Vigurs. Cliff, Gunwalloe, 1916, Tresidder.

The records for var. *humifusa* (*Flora*) require revision. I should very much like to see a Cornish plant with hairy pods, C. C. Vigurs.

**Ulex europæus**, Linn.

"There is quite as much justification for giving a name (e.g., forma *humilis*) to the Lizard Downs form as there is to give a name to the prostrate form of *U. Gallii* (var. *humilis*)". W. Watson, *in lit.*

**U. europæus** × **Gallii**, nov. hyb. Druce.

1. Dr. Druce writes that the plants in Parkhurst forest, Isle of Wight, recalled a somewhat similar plant, also flowering in May, which he saw at Millook, Cornwall, some years ago, *B.E.C.*, 1920, p. 17.

\**Spartium junceum*, Linn. Spanish Broom. Alien. 3. Par Harbour, 1919, Rilstone.

**Cytisus scoparius**, Link

5. Quite rare for five to seven miles around Newquay, Vigurs.

**Ononis repens**, Linn. var. **horrida**, Lange.

3. Par Harbour, 1911, Davey. Near Charlestown, 1920, Medlin.  
5. Perranporth, 1916, Rilstone.  
6. Pra Sands, 1911, Davey.

**O. spinosa**, Linn.

"Referring to Ray's record (*Flora*), Mr. Hiern says it refers to var. *horrida* above. The first record for *O. spinosa* should therefore be Tellam in Davey, *Tent. List*, 1904, and Ray's should go under *O. repens*." Davey.

**Trigonella ornithopodioides**, DC.

3. Cliffs, Polperro, first seen in 1912, Mrs. and H. M. M. Perry-coste. Par Harbour, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 102.  
7. "Above Kynance Cove" (*Flora*). Prevalent in Gew Graze Valley, 1919, Miss Berenice d'Avigdor. Patch on roadside near Mullion village, 1914, Thurston.

- \**T. hamosa*, Linn. Alien. Mediterranean. 6. Falmouth Docks, 1917, Miss M. Cobbe, *B.E.C.*, 1919, p. 647.

***Medicago sativa***, Linn.

6. Dock, Little Falmouth near Flushing, 1917, Thurston.
7. Cadgwith, 1914, Miss M. Cobbe. Road between Mullion and Poldhu Bridge, 1914, Thurston.
8. Sea-front east of Marazion Station, Davey, *R.I.C.*, 1911, p. 378. Bloom fields near Penzance, Rees.

***M. falcata***, Linn.

1. Path to cliff below Grenville Hotel, Bude, 1915, Thurston.
4. Field between Portreath and Portquin, 1916, Miss B. Martyn.
5. Rialton Mill near Newquay, 1915, Vigurs.
8. Patch between Marazion Station and Long Rock, 1911, Davey. "Eastern Green, Penzance, Glasson, 1888" (*Flora*). Eastern Green beach, 1915, Rees.

\*Var. ***tenuifoliata***, Vuych.

6. Falmouth Docks, 1914, Miss M. Cobbe. *Vide B.E.C.*, 1911, p. 17, for description of the plant.

\****M. lupulina***, Linn. var. ***Willdenowiana***, Koch.

3. Pridmouth, 1920, Medlin.

In the *Flora M. lupulina*, var. *scabra*, Gray, noticed in all the districts, is said to be distinguished from the type by glandular hairs. In Hayward, *Botanist's Pocket-book*, ed. XV. var. *Willdenowiana*, Koch, is described as having pods with glandular hairs, and var. *scabra* rough pods with simple hairs. See also *B.E.C.*, 1910, pp. 551-2.

***M. denticulata***, Willd.

3. Ballast-heap, Charlestown, Tresidder.

Var. ***apiculata*** (Willd).

3. Par Harbour, 1920, Thurston.

***M. arabica***, Huds.

3. Charlestown, Tresidder.

**\*M. minima**, Desr. Casual.

Recorded in the *Flora* as an error, but now included.

3. A few plants at Par, Vigurs, *B.E.C.*, 1915, p. 261. There cited as *M. minima*, Bart., and also in Druce, *List of British Plants*.

\**M. littoralis*, Rhode. Alien. Shores of the Mediterranean, Dunn. 3. A rare alien at Par, Davey, *R.I.C.*, 1911, p. 378.

**Melilotus altissima**, Thuill.

3. Looe dust-heaps; top of Sand Hill near Polperro, 1910, not seen since, Mrs. and H. M. H. Perrycoste. Ballast-heap, Charlestown, Tresidder.

6. Helston Water, Kea; Lowertown, Frogpool, Gwennap, Davey, *R.I.C.*, 1911, p. 378.

**M. alba**, Desr.

1. Waste-patch, Bude, 1915, Thurston.

3. Ballast-heap, Charlestown, Tresidder.

4. Martyn's yard, Wadebridge, 1918, Thurston.

5. Copperhouse near Hayle, 1921, Thurston and Rilstone. Cultivated field, Phillack, 1915, Rees.

**M. officinalis**, Lam.

1. Marhamchurch, 1907, Harvey. Boscastle, 1915, Thurston.

3. Ballast-heap, Charlestown, Tresidder.

4. Padstow; Sea Mill near St. Issey, 1918, Thurston.

5. Shepherd's, Newlyn East, 1916, Harvey. Newquay, 1902, Vigurs. Hendravossan, *R.I.C.*, 1911, p. 378, and Wheal Hope, both in Perranzabuloe, Tresidder.

7. Mullion, 1914, Thurston.

8. Carbis Bay, 1912, Thurston. Long Rock, Marazion, Davey, *R.I.C.*, 1911, p. 378.

**M. indica**, All.

3. "Par, 1903" (*Flora*). Abundant at the Harbour, 1920, Thurston. Mount Charles near St. Austell, 1921, Tresidder.

5. One plant near farm with fowls, Quintrell Downs, 1908, Rogers and Vigurs. Cultivated field, Phillack, 1915, Rees.

6. Fowl-run, Falmouth Docks, and beach outside Docks, 1917, Thurston.

*M. azurea*, Wallr. Alien. 6. Waste-ground outside Boscawen Park, Truro, 1922, Borlase.



**Trifolium subterraneum**, Linn.

3. Gribbin Head; Bodelva, St. Blazey, Medlin. Trenarren near Pentewan, Tresidder.
5. Fields near Perranzabuloe and Perranporth, 1917, Rilstone, *B.E.C.*, 1917, p. 217.
6. Idless near Truro, Rilstone, *R.I.C.*, 1911, p. 378. Heligan lawn, 1911, J. D. Enys. Quarry near Pennare Farm, Veryan; Pendower beach, Gerrans Bay, 1913, Thurston.
7. Poltesco; Cadgwith; cliff, Mullion Cove, 1914, Miss M. Cobbe.
8. Truthwell near St. Just; Cape Cornwall, Rees.

**T. pratense**, var. **parviflorum**, Bab.

3. "Railway bank, Par, Tellam" (*Flora*). Railway bank near Par Sands, Miss M. Cobbe, *B.E.C.*, 1917, p. 103.

\*Var. **americanum**, Harz. Alien.

5. Waste-heap, Newquay, 1912, Vigurs, *R.I.C.*, 1913, p. 227.

**T. squamosum**, Linn.

3. "Par" (*Flora*). Par Harbour, 1917, Miss M. Cobbe; 1920, Thurston. Ballast-heap, Charlestown, 1922, Tresidder.
6. "Falmouth Docks, 1882" (*Flora*). Seen there in 1912 by Miss C. Vivian.

**T. Molinerii**, Balb.

7. Between Poltesco and Cadgwith, Miss M. Cobbe, *B.E.C.*, 1916, p. 480. Old Lizard Head, 1917, Mrs. and H. M. M. Perrycoste.

**T. arvense**, Linn.

Known at Looe at Cats' Tails.

1. Tintagel, 1915, Mrs. Rouse, née Davey.
3. Ballast-heap, Charlestown, Tresidder.
4. Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 378.
5. Goonhavern, Tresidder, *ibid.* One plant at Miry Bottom near Pendown Cross-roads, Perranzabuloe, Rilstone.
6. Portloe near Veryan, 1913, Thurston.
8. Bodilly Mill near Penzance, 1916, Rees.

**T. Bocconi**, Savi.

7. "First found in 1839 on a dry bank at Cadgwith" (*Flora*). Seen there in 1914; near the quarries, Poltesco, Miss M. Cobbe, *B.E.C.*, 1916, p. 480. "Near Kynance" (*Flora*). Quantities in Gew Graze Valley, 1919, Miss Berenice d'Avigdor.

**T. striatum**, Linn.

5. Near Chyverton, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 378. St. Agnes, 1912, Rilstone.  
6. Port Holland, 1913, Thurston.

**T. scabrum**, Linn.

1. Summerleaze Downs, Bude, 1915, Harvey.  
3. Trenarren near Pentewan, Tresidder.  
4. Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 378.  
5. Budnick Hill, Perranporth; St. Agnes Cliffs, Rilstone.

**T. glomeratum**, Linn.

3. Ballast-heap, Charlestown, a few plants, 1915, Tresidder.

**T. suffocatum**, Linn.

7. Hot Point, Lizard, 1919-20; quarry, Landewednack, 1920, Miss Berenice d'Avigdor. Gew Graze Valley, 1922, Downes.

**T. strictum**, Linn.

7. Between Cadgwith and Landewednack, Miss M. Cobbe, *B.E.C.*, 1916, p. 480. Caerthillian Cove, 1872, Curnow, *R.I.C.*, 1911, p. 378. One plant, Gew Graze Valley, 1919, Miss Berenice d'Avigdor.

**\*T. repens**, Linn. var. **phyllanthum**, Seringe.

3. Par, 1912, Vigurs, *R.I.C.*, 1913, p. 227. Par Harbour, 1920, Medlin.

Each flower has a conspicuous pedicel, sometimes more than twice as long as the flower.

**T. fragiferum**, Linn.

3. "Polperro, Perrycoste" (*Flora*). Mr. Perrycoste now doubts the accuracy of this record.  
4. Egloshayle Marsh, abundant, 1918. Thurston, St. Enodoc, Rev. H. E. Fox, *R.I.C.*, 1911, p. 378.  
8. Cliff slopes near Marazion, Rees.

**T. resupinatum**, Linn.

3. Ballast-heap, Charlestown, 1917-20, Tresidder.

\***T. dubium**, Sibth. var. **pygmæum** (Soy-Will).

5. Chapel, St. Columb Minor, 1914, Vigurs. Probably sometimes taken for *T. filiforme*.

**T. filiforme**, Linn.

3. Trenarren near Pentewan, Tresidder.  
 5. For "Trethenas" (*Flora*) read Tretherras. Trerice Farm, St. Allen, Tresidder. St. Agnes, Rilstone.  
 6. Field between Trefusis Point and Mylor Church, 1917, Rilstone.  
 7. Goonhilly Downs, Rev. H. E. Fox, *R.I.C.*, 1911, p. 379. Caerthillian Valley, 1914, Thurston.

**Anthyllis Vulneraria**, Linn. var. **coccinea**, Linn.

1. Bude Sandhills, 1915, Thurston.  
 4. Portquin to Polzeath, Rev. H. E. Fox, *R.I.C.*, 1911, p. 379.  
 5. "Newquay" (*Flora*). Headland, Newquay, 1919, Barton. "These are even taller than the Cornish specimens gathered by Mr. Loydell in 1903, and Preb. H. E. Fox in 1910. . . . Mr. Barton's are more tomentose than any of my specimens of *coccinea*, but the hairs are longer on the average sized specimens of this var. gathered by Miss Geldart in May, 1911." H. S. Thompson, *W.E.C.*, 1918-20, p. 97.  
 7. "Kynance, 1845" (*Flora*). Downs near Kynance, 1911, Miss A. M. Geldart, *W.E.C.*, 1911-12, p. 333.

\*Var. **bicolor** (Rouy & Fouc).

5. Porthcothan, 1921, Devis. "Cornwall," White, *B.E.C.*, 1914, p. 64.

**Lotus corniculatus**, Linn. var. **crassifolius**, Pers.

5. Porthcothan, 1921, Devis.  
 8. Hayle Towans (sand-dunes); sands between Marazion and Penzance, 1921. This is a form, and has no right to a varietal status, W. Watson.

**L. tenuis**, Waldst. & Kit.

5. Mother Ivey's Bay near Trevose Head, 1911, Miss F. Spettigue.  
 7. East Kennack Valley; cliff west of Cadgwith, 1914, Miss A. B. Cobbe.

**\*L. uliginosus**, Schkuhr, var. **glabriusculus**, Bab.

6. Perran-ar-worthal, 1911, Davey, *R.I.C.*, 1913, p. 227.  
8. Chy-an-hal Moor, Penzance, 1912, Rees, *ibid.*

**L. angustissimus**, Linn.

3. "Polperro, Couch" (*Flora*). Slopes of east cliff, Polperro, 1917, Rilstone, *B.E.C.*, 1917, p. 217. Very robust plants in a deserted cabbage patch on east cliff, Polperro, 1919, Thurston, *B.E.C.*, 1920, p. 178. Recorded in error as *L. hispidus*, Desf. var. *major*, Rouy, *B.E.C.*, 1919, p. 554.

**L. hispidus**, Desf.

3. Par Harbour, Davey, *R.I.C.*, 1911, p. 379. Ballast-heap, Charlestown, 1920, Tresidder.  
7. Cliff west of Cadgwith, 1914, Miss M. Cobbe. Caerthillian Valley, 1914, Thurston.

*Coronilla varia*, Linn. 5. Hedge, Copperhouse, near Hayle, 1921, Rees. 6. Falmouth, 1912, Miss C. Vivian.

**Ornithopus perpusillus**, Linn.

3. Par, 1917, Miss A. B. Cobbe. Starrick Moor, St. Austell; Trenarren near Pentewan, Tresidder.  
4. Blisland, 1908, Harvey. Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 379.  
5. For "Perranzabuloe" (*Flora*) read St. Stephen-in-Brannel (district 6). Carnkief, Perranzabuloe, Tresidder.  
6. Penwithick Moor, Tresidder. Near Carne, Veryan; quarry near Nare Head, 1913, Thurston.  
7. Cadgwith, 1914, Miss A. B. Cobbe.  
8. Hayfield, Gulval, 1915, Miss Waterer. Bosigran, Rees. Land's End, Rev. H. E. Fox, *R.I.C.*, 1911, p. 379.

**O. pinnatus**, Druce.

8. "Scilly Isles" (*Flora*). Tresco and St. Agnes, 1922, Downes.

**Vicia tetrasperma**, Moench.

5. Lambourne, Perranzabuloe, 1912, Rilstone.  
6. Near Ruan Laniorne, 1913, Thurston.

\**V. tenuifolia*, Roth. Alien. "Central Europe to the Orient," Dunn. 3. Small quarry at head of West Looe river, 1900, Hume. *R.I.C.*, 1911, p. 379. 6. Falmouth Docks, quite naturalised, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 104.



**\*V. Cracca**, Linn, forma **alba**.

8. Between St. Ives and Zennor, 1897, F. H. Perrycoste.

Var. **argentea**, Coss. & Germ.

6. Perran-ar-worthal, 1912, Davey.

**V. Orobus**, DC.

1. Goscott Moor, Week St. Mary, 1917, Tresidder. Otterham Downs, 1916, Wise and Smith-Pearse.

**V. sylvatica**, Linn.

2. Hedge-bank between Pensilva and Upton, very sparingly, 1921, H. S. Thompson.

**V. lutea**, Linn.

7. "Along the coast at Landewednack" (*Flora*). Between Landewednack and Lean Water Cove, 1914; Poltesco Little Cove, abundant, Miss M. Cobbe, *B.E.C.*, 1916, p. 481.

**V. angustifolia**, Linn.

2. Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 379.
6. Port Holland; near Paradoe Cove, Gerrans Bay, 1913, Thurston.

\*Forma **flavida**, Schur. fide Thellung.

6. Falmouth Docks, 1917, Miss A. B. Cobbe.

Var. **Remrevillensis**, Hussenot.

For "Egloshayle" (*Flora*, p. 135) read St. Ervan.

**V. bithynica**, Linn.

7. "Housel Bay, 1902" (*Flora*). Lane leading to Housel Bay Hotel, 1920, Miss Berenice d'Avigdor.

\*Var. **angustifolia**, Syme. Casual.

3. Par Harbour, 1920, Thurston. Ballast-heap, Charlestown, 1920, Tresidder.

**Lathyrus Aphaca**, Linn.

3. Ballast-heap, Charlestown, one plant, 1916; several plants, 1920, Tresidder.

**L. Nissolia**, Linn.

3. Par Harbour, 1916; abundant in 1920, Tresidder. Railway-bank, Crinnis, 1920, Mrs. Medlin.

**L. sylvestris**, Linn.

3. Polkerris, 1920, Tresidder.

**L. hirsutus**, Linn.

3. "Par, Tellam" (*Flora*). Par Harbour, 1918, Wise, *B.E.C.*, 1918, p. 376.
6. Malpas road, Truro, Borlase, *R.I.C.*, 1911, p. 379.

\**L. Cicera*, Linn. Alien. Southern Europe. 3. Par Harbour, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 104.

**L. montanus**, Bernh.

2. Pillaton, Hawk, *R.I.C.*, 1911, p. 379.
3. Trelawney Woods; Court Wood, Lanreath, Mrs. and H. M. M. Perrycoste. St. Blazey, Medlin.
4. Between Burlorne and Hustyn Mill, St. Breock, 1915, Thurston.
6. Arallas, Ladock, 1915, Vigurs.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 379. Gweek Wood; Trelowarren, 1914, Miss M. Cobbe.

Var. **tenuifolius**, Garcke.

1. Near Launcells; Minster Valley, Boscastle, 1915, Thurston.
5. Near St. Allen, 1912; Penhallow, Perranzabuloe, flowering slightly later than the type, Rilstone, *B.E.C.*, 1914, p. 262.

**ROSACEÆ.****Prunus insititia**, Linn.

3. Talland, Mrs. and H. M. M. Perrycoste. Par, Medlin.
6. Wood, Veryan, 1913, Thurston.

**P. domestica**, Linn.

6. Lamorran Wood, 1913, Thurston.
8. Between Newlyn and Penlee Point, 1921, W. Watson.

**P. avium**, Linn.

1. Minster Valley, Boscastle, 1915, Thurston.
4. Near the Jail, Bodmin; Roche-Bodmin road west of Mount Pleasant, 1912, Vigurs.
5. Quintrell Downs, Vigurs. Mill Down, Ventongimps, Peranzabuloe, 1912, Rilstone.
6. Between Tregoney and Tresillian; Lamorran Wood, 1913, Thurston. Trelew near Mylor, 1917, Miss A. B. Cobbe. Between Ladock and Brighton, Vigurs.

**P. Padus**, Linn.

4. Patch 15 yards in length in roadside hedge near Tresarret Bridge, Blisland, away from habitation, May. After receiving the report of Mr. Thurston, to whom the Rev. F. Granville May showed the patch in 1920, I claim that the plant should be considered a native of Cornwall. C. C. Vigurs.

**Spiræa salicifolia**, Linn.

3. "Near Jamaica Inn" (*Flora*). Abundant in lane from Liskeard road to Dozmary Pool, 1915, Thurston. Large patch at top of Jubilee Hill, Pelynt, 1915, Mrs. and H. M. M. Perrycoste.
6. Hedge, Budock, 1917, Rilstone.

**S. Ulmaria**, Linn, var. **denudata**, Boenn.

5. Colan, 1911; Quintrell Downs, Vigurs. Carnkief pond, Peranzabuloe, Tresidder.
  6. Chyvogue, Perran-ar-worthal, 1911, Davey. Kestle near Helford, 1921, Tresidder.
- At the end of the dry summer, 1921, plants in the valley, Polperro, produced a crop of radical leaves, and, while the old growth was of normal type, the new leaves were green below and glabrous. Rilstone.

**Rubus idæus**, Linn.

3. Yearl's Coombe, Trelawney river, Mrs. and H. M. M. Perrycoste.
6. Penwethers near Truro, 1911, Foott.

**R. affinis**, Wh. & N.

5. Goonhavern, Tresidder, *R.I.C.*, 1911, p. 379.

**R. latifolius**, Bab.

7. Near Nancegollan station, Tresidder.

**R. Lindleianus**, Lees.

5. Penhallow Moor, Newlyn East, Rogers, *R.I.C.*, 1911, p. 379.

**R. nemoralis**, P. J. Muell.

In *Journ. Bot.*, 1909, p. 174, the Rev. W. Moyle Rogers mentions two forms of this plant.

- a. Type. 5. Quintrell Downs, and near the railway bridge close by.  
 b. "Form with leaflets greenish white felted beneath, smaller and more irregularly toothed towards the point, and narrower, more elongate, and somewhat glandular panicle. Rather common, and locally abundant."  
 3. Par, Vigurs.  
 5. Quintrell Downs; Penhallow Moor and Benny Bridge. Newlyn East; Goonhavern; Perranporth; Scorrier, Rogers.  
 6. Goss Moor, Vigurs.  
 7. "This form (b) is connected with the type by an intermediate plant, which occurs in some quantity at Mullion, and on the Goonhilly Downs." *Loc. cit.*  
 8. Pra Valley; St. Buryan; Lamorna Valley, 1911, Davey.

**\*R. Scheutzii**, Lindeb.

6. Kea Downs, 1911, Druce, *R.I.C.*, 1913, p. 224.

**R. dumnoniensis**, Bab.

5. Cosworth Downs, Vigurs, *R.I.C.*, 1911, p. 379. For "Penhallow Moor, Perranzabuloe" (*Flora*) read Penhallow Moor, Newlyn East. Goonhavern, Perranzabuloe, Vigurs.

**R. ramosus**, Briggs.

5. Penhallick Water, Perranzabuloe, 1910, Tresidder, *R.I.C.*, 1911, p. 379.

**R. thyrsoides**, Wimm.

For note on the Cornish forms of this plant, see *Journ. Bot.*, 1909, pp. 174-5.



\*Var. **viridescens**, Rogers, MS.

5. Goonhavern to Penhallick Water, Perranzabuloe, 1898, Rogers. Perranzabuloe, 1907, Tresidder.

"The closeness of the connection with type seems to be established especially by the combination of the strong deeply furrowed glabrous stem with the comparatively short curved prickles and showy flower of the panicle. It is, however, considerably unlike in habit and coloration, besides having leaflets narrower and soon bare beneath, with panicle (when fully developed) considerably branched and purplish petals. From *R. rusticanus*, towards which it takes a step from type, it may be readily distinguished by its epruinose stem, its more compressed prickles, and longer stamens; and from my *R. Briggsianus*, which at first sight it recalls, by its sulcate stem and short curved panicle prickles, as well as by its different leaves, greyer sepals, and purplish petals." Rev. W. M. Rogers, *W.E.C.*, 1917-18, p. 58.

**R. Godroni**, Lecoq & Lamotte.

5. Goonhavern, *R.I.C.*, 1911, p. 379; Carnkief, Perranzabuloe, Tresidder.

\*Hybrid. **R. rusticanus** × **plinthostylus**.

6. Greenwith, Perran-an--worthal, Davey.

The bramble, recorded on page 156 of the *Flora* as probably *R. criniger* was later regarded by Moyle Rogers as above, *R.I.C.*, 1913, p. 227.

**R. hypoleucus**, Lefv. & Muell.

5. Goonhavern, Tresidder, *R.I.C.*, 1911, p. 380.

**R. macrophyllus**, Wh. & N.

5. Goonhavern; Penhallick Water, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 379.

**R. lasiocladus**, Focke, var. **angustifolius**, Rogers.

5. Perranporth, Rogers.

The Rev. W. Moyle Rogers came to the conclusion that the bramble from near Quintrell Downs, recorded on his authority in the *Flora* as near *R. argyranthus* and *leucostachys*, should be referred to *R. lasiocladus*. See also *Journ. Bot.*, 1909, p. 175.

**R. Borreri**, Bell Salt, var. **dentatifolius**, Briggs.

5. Penhallow Moor, Rogers, *R.I.C.*, 1911, p. 380. Recorded there as the type.

**R. radula**, Weihe, var. **anglicanus**, Rogers.

5. Goonhavern, Rogers, *Journ. Bot.*, 1909, p. 175.

**R. scaber**, Wh. & N. forma **angustifolia**.

5. Goonhavern, Rogers, *R.I.C.*, 1911, p. 380.

**R. Koehleri**, Wh. & N.

1. "Minster Valley, Rogers" (*Flora*). Said by the Rev. W. Moyle Rogers to refer to *R. plinthostylus*.

**R. plinthostylus**, Genev.

The first record (*Flora*) should read:—Rogers, *B.E.C.*, 1885, as *R. Koehleri*.

5. One of the commonest brambles in the Newquay district, Vigurs. Between Redruth and Portreath, 1911, Davey.

8. Several places between Penzance and Land's End, 1911, Davey.

**R. corylifolius**, Sm. var. **cyclophyllus** (Lindeb).

6. Perran-ar-worthal, 1911, Druce.

**R. cæsius**, Linn.

6. Penmount, Truro, 1911, Foott.

Mr. Rilstone is engaged in an investigation of the *Rubi* mainly in the neighbourhoods of Polperro and Lostwithiel, and in Perranzabuloe. The time is not yet ripe for the publication of the results, which will doubtless be the subject of a detailed note later on. Critical notes on some of Mr. Rilstone's plants will be found in *B.E.C.*, 1919, 1920.

**Geum rivale**, Linn.

5. Railway-bank close to bridge over the line, Rejerrah, Newlyn East, Tresidder.

**Fragaria moschata**, Duchesne.

3. Wood in grounds of Portlooe near West Looe, Miss C. Grigg.

*F. indica*, Andr. 3. The Strawberry of cultivation has long been established as an escape at Par Harbour, Vigurs. 5. Blackwater, Scorrier, Vigurs.

\*Hybrid. **Potentilla erecta** × **procumbens**.

6. Church lane, Perran-ar-worthal, 1911, Davey.
7. Lizard Downs, 1911, Druce, *New Phyt.*, 1911, p. 312.

\*Hybrid. **P. erecta** × **reptans**.

6. Silverhill, Perran-ar-worthal, Davey, *W.E.C.*, 1912-13, p. 393.
8. Penzance, 1898, Druce, *B.E.C.*, 1913, p. 322.

A plant collected at Truro in 1911 by Dr. Druce was determined by Dr. Wolf as "*super-reptans* × *Tormentilla*, hinc spectat *P. italica*, Lehm. Hoc specimen est distinctum, minus pilosum, infra ramificatum."

**P. procumbens**, Sibth.

3. Wood in valley east of Glynn, Tansley, *R.I.C.*, 1911, p. 380. Charlestown, Tresidder.
5. Penhallow, 1911; Mithian and St. Agnes, 1912, Rilstone, Perranporth; roadside between Redruth and Portreath, 1911, Davey.
6. Near Veryan; Lamorran Wood, 1913; near Falmouth Workhouse, 1917, Thurston. Perran-ar-worthal, 1911, Davey. Truro, 1911, Druce, *New Phyt.*, 1911, p. 311. Chacewater, Vigurs.

A plant sent by Davey to the Watson Exchange Club was determined by Dr. Wolf as *P. procumbens*, Sibth, with the remark: "Forma foliolis crebrius incisus quæ etiam in Germania haud raro occurrit." *B.E.C.*, 1913, p. 320.

7. Lizard; Kynance, 1911, Davey, *New Phyt.*, 1911, p. 311.
8. Roadside, St. Buryan, 1911, Davey.

Davey's forecast (*Flora*, p. 168) that this plant would be found to have a more general distribution in Cornwall than was then indicated has been amply verified.

Hybrid. **P. procumbens** × **reptans** (*P. mixta*, Nolte).

1. Millook, Druce, *B.E.C.*, 1915, p. 265.
6. Checkwater, Perran-ar-worthal, Davey. Greenwith Common, Perran-ar-worthal, Vigurs, 1912, *B.E.C.*, 1913, p. 321; *W.E.C.*, 1912-13, p. 393. Dr. Wolf remarks:—"Forma valde robusta." Truro, 1911. Davey and Druce. Dr. Wolf observes:—"Specimen simillimum est specimenibus a Cl. Nolte in *Holsatia* lectis"

7. Caerthillian Valley, Tansley, *R.I.C.*, 1911, p. 380. Downs between Lizard and Kynance, 1911, Davey.

\***P. reptans**, Linn. Small form, approaching **microphylla** (Tratt).

5. Newlyn Halt; Trethellan steps, Newquay, Vigurs, *B.E.C.*, 1913, p. 321.

8. Grassy bank, Penzance, 1921, Thurston.

\*Var. **mollis**, Borbas (*sericea*, *Bab. Man.*, 1847, 94).

6. Truro, 1911, Druce, *B.E.C.*, 1913, p. 322.

8. Penzance, 1892, Druce, *loc. cit.*

**P. palustris**, Scop.

1. Tamerton, 1918, Harvey.

3. Prideaux, St. Blazey, Medlin. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 380.

5. Tolgroggan Moor, and Truthan Bottoms, St. Allen; St. Erme; Tregassick, Tresidder.

6. St. Dennis, Medlin.

**Alchemilla vulgaris**, Linn.

3. Near Roche, 1916, Taylor.

**Agrimonia Eupatoria**, Linn.

2. Near Sheviock, small flowered, 1919, Rilstone.

6. Near Veryan, 1913, Thurston. Tarrandean lane, and station hill, Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 380.

8. St. Erth, 1912, Thurston. Hawks Point near Carbis Bay, Rees. Near Pra Sands, 1911, Davey.

**A. odorata**, Mill.

3. Above Lantic Bay, 1911, Mrs. and H. M. M. Perrycoste.

6. Truthan Bottoms, St. Allen, Tresidder.

**Poterium Sanguisorba**, Linn.

3. Par Moor, Medlin.

7. Mullion, 1911, Davey.

**P. officinale**, A. Gray.

2. Carthamartha Wood, Lezant, Tresidder.

3. Duporth near Charlestown, Tresidder.

7. Poltesco; Poldhu Valley, 1914, Thurston.



**Rosa spinosissima**, Linn.

7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 380.

**R. tomentosa**, Sm. pro. parte.

2. Tokenbury between Pensilva and Upton, 1919, H. S. Thompson.  
 3. Roadside between milestone and Miss Lemon's cottages near Looe; Yearl's Coombe, Trelawney river, 1918; field hedge above Sand Hill, Polperro, 1915; Coombes, Polperro, opposite school; near Mabel Barrow, Mrs. and H. M. S. Perrycoste. Between St. Austell and Roche, 1921, H. S. Thompson.

**R. stylosa**, Desv. var. **leucochroa** (Desv).

6. Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 380.

**R. arvensis**, Huds, var. **dibracteata**, Bast (*Flora*).

For *dibracteata* read *bibracteata*.

- \**R. lucida*, Ehrh. Alien. North America. Repeatedly found in England. 6. Hedge near Baldhu, Truro, for length of 10-12 feet, 1921, Tresidder.

**Pyrus torminalis**, Ehrh.

1. Week St. Mary; Jacobstow, Tresidder.  
 5. "Newlyn East" (*Flora*). Long Cross near Newlyn East, Vigurs, *B.E.C.*, 1914, p. 143. Carnkief, Perranzabuloe, Tresidder.

\***P. intermedia**, Ehrh (*scandica*, Asch).

5. Roadside, Perranzabuloe Church, one of a row of trees, chiefly Elms, originally planted, 1921, Rilstone.

**P. domestica**, Ehrh.

In the *Journal of Botany*, 1909, p. 390, the Editor points out that the quotation from the *Phytologist*, 1861, p. 176, in the *Flora* is inaccurate. in so far as it states that there is a localised specimen (hilly places in Cornwall) in Buddle's Herbarium. Buddle's specimen is not localised.

**Pyrus communis**, Linn.

1. Tree in field hedge near canal bank, Marhamchurch, 1922, Durston.

**P. cordata**, Desv.

2. "Old bush in hedge close to the path leading through fields from St. John's village to Higher Tregantle" (*Fl. Plym.*, 1880). Bush alive in 1919, but did not flower, Thurston.

**P. Malus**, Linn, var. **sylvestris**, Linn (*acerba*, DC).

3. Restormel road, Lostwithiel, 1920, Rilstone. "Near, and possibly correct. The Cornish Crabs require studying." Druce.

Var. **mitis**, Wallr.

6. Parnall's Wood near Port Holland, 1913, Thurston.

Var. **paradisiaca**, Hort.

4. Hedge, Wadebridge, 1920, Harvey. Probably *paradisiaca*, Druce *in lit.*  
5. Hedge near Mawgan Cross, Mawgan-in-Pydar, 1912, Vigurs. The bush may perhaps be referred to this variety.

**P. germanica**, Hook. fil.

2. Farm, South Petherwin, May.  
3. Field hedge between Looe-Polperro road and Newtons, 1919, Thurston.

**\*Cratægus monogyna**, Jacq, var. **laciniata**, Wallr.

6. Between Greensplat and the Miners' Arms, Gwennap, 1911, Davey, *R.I.C.*, 1913, p. 228.

\*Var. **kyrtostyla** (Fingerh).

7. Goonhilly Downs, 1911, Davey, *loc. cit.*

**\*Cotoneaster Simonsii**, Baker. Alien. 5. Several shrubs near Perranzabuloe Church; planted in churchyard, Tresidder, *R.I.C.*, 1913, p. 225. Silverwell, 1920, Rilstone.**SAXIFRAGACEÆ.****Saxifraga tridactylites**, Linn.

1. Week St. Mary village, Tresidder.  
3. Clicker Tor, Corn. Mon. Club. *R.I.C.*, 1911, p. 380. Plentiful on roof of shed at Bogga Mill, Lanreath, 1918, Mrs. and H. M. M. Perrycoste. Golant, 1920, Thurston. Par, 1911, Davey.

4. Near Grogley between Wadebridge and Bodmin, Salisbury.

\**Tellima grandiflora*, Br. Alien. 1. Several plants as garden escape on roadside bank, Poughill, 1915, Thurston.

**Ribes nigrum**, Linn.

4. Dunmere Wood two miles N.W. of Bodmin; in wet places in *Quercus sessiliflora* woods; near Grogley between Wadebridge and Bodmin, Salisbury.

**R. rubrum**, Linn.

3. In *Quercus sessiliflora* woods, Fowey Valley, probably bird sown, Salisbury.  
6. Bank between Flushing and Mylor, 1917, Miss M. Cobbe.

## CRASSULACEÆ.

**Sedum Telephium**, Linn.

3. Between Trelawney Mill and Sowden's Bridge; lime-kiln, Talland; hedge at top of Jubilee Hill, Pelynt, 1912, et sq, Mrs. and H. M. M. Perrycoste.  
6. Perranwell, 1917, Thurston.

Var. **Fabaria**, Koch (? *purpureum*, Linn).

"There appears to be some doubt in the minds of our foreign confrères as to whether we have the true *S. Telephium*, L. in Britain. All the plants seen were referred by them to the above form." Int. Phytogeograph. Excursion, *New Phyt.*, 1911, p. 312.

**S. purpureum**, Tausch.

1. "Tintagel" (*Flora*). Rocky Valley near Tintagel, 1915, Thurston.  
3. Charlestown Wood, Tresidder.

**S. album**, Linn.

3. Wall, Hessenford, 1919, Thurston.  
5. Wall, Newlyn East, 1916, Rilstone.  
7. Cliff-bank, Cadgwith, Miss A. B. Cobbe, *B.E.C.*, 1916, p. 486.

**S. acre**, Linn.

3. Wall opposite Polkieves between Polperro and Sclerder, Mrs. and H. M. M. Perrycoste. St. Blazey, with very pointed slender leaves, 1916, Mrs. Wedgwood.
6. Mylor, 1921, R. L. Smith and W. D. Watson.
8. Pra Sands, 1911, Davey. Perranuthnoe; St. Just, Rees.  
In a note (*B.E.C.*, 1912, p. 161) on *Sedum Drucei*, Graebner, which is related to *S. acre* but distinguished, *inter alia*, by the loosely placed, narrow divergent leaves, it is stated that "it has yet to be demonstrated that the restricted *acre* occurs in Britain."

**S. reflexum**, Linn.

3. "Langreek and Tregarrick near Polperro, T. Q. Couch" (*Flora*). Not found there by the Perrycostes. Patch in hedge at Maenedhu, 1917, Mrs. and H. M. M. Perrycoste.
6. Veryan, 1913, Thurston.

**S. rupestre**, Linn.

8. Canons Town near Lelant; cliff path between Carbis Bay and St. Ives, 1915, Rees.
- \**S. spurium*, Sibth. Alien. Garden origin. Plentiful on wall, Tintagel, 1915, Vigurs.

**Sempervivum tectorum**, Linn.

1. Outhouse of cottage, Boscastle, 1915, Thurston.
3. Cottage roofs, Lostwithiel and Golant, 1920, Thurston.
4. Worthyvale House near Slaughterbridge, 1915, Thurston.
5. Trencreek, St. Columb Minor, 1920, Vigurs.

**DROSERACEÆ.****Drosera longifolia**, Linn.

1. Laneast, 1908, Harvey.
5. Wheal Butson, St. Agnes, 1911, Rilstone.
6. Penwethers near Truro, 1914, Foott.

**HALORAGACEÆ.****Myriophyllum spicatum**, Linn.

6. Ennis and Trevella, St. Erme, Tresidder.



**M. alternifolium**, DC.

7. Pond between Goonhilly Downs and Traboe; pond near Penhale, Lizard road, 1914, Thurston. Kynance Downs, 1911, Miss C. E. Larter.

**Callitriche palustris**, Linn.

In a letter to Mr. Arthur Bennett, Davey wrote :—" I have never seen a Cornish specimen, and some of the records may have to go under some other species. I experienced great difficulty in sifting the records for the genus."

**C. intermedia**, Hoffm.

3. Fowey river near Dozmary Pool, 1915, Thurston.

Var. **pedunculata** (DC).

1. Hellescott Bridge, Egloskerry, 1919, Reid.

**C. obtusangula**, Le Gall.

7. Mullion Cove, J. Groves, *R.I.C.*, 1911, p. 380.

**LYTHRACEÆ.****Peplis Portula**, Linn.

1. Goscott Moor, Week St. Mary, Tresidder.
3. Cheesewring, 1920. Harvey. Trenarren Marsh near Hensford, 1914, et sq, Mrs. and H. M. M. Perrycoste. Prideaux, St. Blazey; Trethurgy near St. Austell, Medlin. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 380.
5. Quintrell Downs; Metha Wood and west side of Newlyn Downs, Vigurs. Roadside near Newlyn East; stream, Rees Wood, Perranzabuloe, 1916, Thurston. Between Penhallow and Miry Bottom, Perranzabuloe, 1912, Rilstone.
6. Nanpean; St. Dennis, Medlin.
7. Goonhilly Downs, Rev. H. E. Fox, *R.I.C.*, 1911, p. 380.

\*Var. **dentata**, Druce.

1. Boscastle, 1911, Druce. Calyx teeth (Imm. long) are longer than the capsule. *B.E.C.*, 1911, p. 20; *R.I.C.*, 1913, p. 228.
6. Perran-ar-worthal, Davey, *R.I.C.*, 1913, p. 228.

**ONAGRACEÆ.****Epilobium angustifolium**, Linn.

1. Launceston road near Halworthy, 1915, Wise.
3. Cinder-heap between Cheesewring and road from Upton to Henwood, 1920, Harvey. Marsh by St. Keyne Station, 1915 et sq, Mrs. and H. M. M. Perrycoste. Tregorrick near St. Austell, Tresidder. Pentewan Valley, Medlin.

**E. hirsutum**, Linn.

1. Abundant at Launcells, 1908, Harvey. Week St. Mary, common, Tresidder.
2. Botusfleming, Hawk, *R.I.C.*, 1911, p. 380.
3. Along Polperro river, Mrs. and H. M. M. Perrycoste. Par Harbour, Medlin.
4. Between St. Mabyn and Sladesbridge, 1915, Thurston.
6. Treviscoe, St. Stephen-in-Brannel, Tresidder. Swamp near Port Holland, 1913, Thurston. Roadside west of Mylor, 1921, R. L. Smith and W. D. Watson.
8. Pra Sands, 1911, Davey. Marazion, 1921, R. L. Smith and W. D. Watson.

**\*E. montanum**, Linn, forma **minor**.

3. Liskeard railway station, 1919, Thurston.

**E. lanceolatum**, Seb. & Maur.

3. Charlestown, 1915, Vigurs.
5. Little Water, Perranzabuloe, Tresidder.
6. Penpoll, Feock, Davey, *R.I.C.*, 1911, p. 380.

**\*Forma umbrosa**, Haussk.

3. St. Blazey, 1912, Vigurs, *R.I.C.*, 1913, p. 228.

**E. tetragonum**, Curt.

6. Ruan Laniorne, 1913, Thurston.
8. Gurnard's Head, 1912, Thurston.

**E. palustre**, Linn.

1. Kensey Valley, Wise.
3. Seaton Valley, 1914 et sq, Mrs. and H. M. M. Perrycoste.

**Oenothera biennis**, Linn.

1. Hill-side, Boscastle, 1915, Thurston.
2. Downterry, Miss C. P. Foster, *R.I.C.*, 1911, p. 380.
3. Seaton, 1915 et sq, Mrs. and H. M. M. Perrycoste. Ballast-heap, Charlestown, Tresidder.
6. Bosvigoe Wood, and Highertown, Truro, 1911, Foott.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 380.
8. Railway embankment near Angarrack, Hayle, 1911, Davey.

*Æ. odorata*, Jacq. 3. Par, 1911, Druce, *Journ. Bot.*, 1911, p. 303. Abundant on a sand-heap, Par Harbour, 1922, Thurston. Ballast-heap, Charlestown, 1920, Tresidder. 4. Bodmin Road Station, 1917, Harvey.

*Fuchsia Riccartoni*, Hort. 7. Stream at head of Caerthillian Valley, 1914, Thurston.

**FICOIDEÆ.**

\**Mesembryanthemum edule*, Linn, and *M. acinaciforme*, Linn. Alien. Recorded in recent years from several localities in West Cornwall. *Vide B.E.C.*, 1911, p. 94; 1917, pp. 74, 75; Curtis, *Bot. Mag.*, Tab. 8783, 1918.

\**Tetragonia expansa*, Murr. New Zealand Spinach. Alien. 8. A single plant growing in shingle near Marazion Station, 1911, Davey, *B.E.C.*, 1912, p. 162; *R.I.C.*, 1913, p. 225.

**UMBELLIFERÆ.****Eryngium maritimum**, Linn.

1. Introduced as a garden plant, Boscastle, 1915, Thurston.

**E. campestre**, Linn.

3. "Par, Tellam" (*Flora*). Large and increasing patch at the harbour; one plant on the sands, 1920, Medlin.

**Sanicula europæa**, Linn.

3. Duporth; Charlestown, Tresidder.
5. Parc Behan plantation, Veryan, 1913, Thurston.
7. Degibna Wood near Helston, 1914, Thurston.

**Danaa cornubiensis**, Burnat.

2. St. Mellion, Hawk, *R.I.C.*, 1911, p. 380.
3. Roadside hedge near St. Pinnock; Penventon, Braddock, Lobb. Callywith Wood, 1½ mile E. of Bodmin, Salisbury.
4. Wood near Grogley between Wadebridge and Bodmin, Salisbury. Ruthern Bridge, Withiel, 1907, H. Groves and C. C. Vigurs, *B.E.C.*, 1908, p. 377.

**Conium maculatum**, Linn.

5. Very tall plants, St. Merryn, 1918, Thurston.
6. Ruan High Lanes near Ruan Lanihorne, 1913, Thurston.
7. Buscaverran, Crowan, Tresidder.
8. "Hayle" (*Flora*). Hayle Towans (sand-dunes), 1913, Rees.

\**Bupleurum lancifolium*, Hornem; *protractum*, H. & L. Alien. "Cornfield weed of the Mediterranean region," Dunn. 3. Highways, Tywardreath, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 108.

**Apium graveolens**, Linn.

3. Seaton Valley; end of Warren road, Polperro, Mrs. and H. M. M. Perrycoste.

**A. nodiflorum**, Reichb. fl.

Called Pepper Case at Padstow.

**A. inundatum**, Reichb. fl.

3. Penwithick, Tresidder.
5. Trevella, St. Erme, Tresidder.
6. Pond between Constantine and Mawnansmith, very luxuriant, 1914, Thurston.
7. "Mullion, Cunnack" (*Flora*). Pond near Penhale, Lizard road, 1914, Thurston. Blue Pool, Crowan, Tresidder.
8. Gulval Downs; Trevegan Downs near St. Just, 1921, W. Watson. Porthgwarra, Rev. H. E. Fox, *R.I.C.*, 1911, p. 380.

*Ammi majus*, Linn. 3. "Casual at Par, 1902" (*Flora*). Seen there in 1914, Vigurs. Ballast-heap, Charlestown, 1921, Tresidder.

**Carum verticillatum**, Koch.

1. Tamerton, 1918, Harvey.



**C. Petroselinum**, Benth. & Hook. fil.

6. Portloe near Veryan, 1913, Thurston.

**C. segetum**, Benth. & Hook. fil.

1. St. Clether, 1908, Harvey.
3. Cheesewring, 1905, Harvey. Duporth; Charlestown, Tresidder.
4. Blisland, 1908, Harvey.
5. Goonhavern; Reen Farm, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 381. Callestick, 1912, Rilstone.

**C. Carvi**, Linn.

1. One plant at Crumplehorn, Polperro, Mrs. and H. M. M. Perrycoste.
5. Perranporth, Tresidder.

**Sison Amomum**, Linn.

3. Tywardreath; Charlestown; Tregrehan, St. Austell, Tresidder.
4. St. Minver, Smith-Pearse, *R.I.C.*, 1911, p. 381. "Penton Gleze" (Pentire Glaze, St. Minver), Rev. H. E. Fox, *B.E.C.*, 1910, p. 566; *R.I.C.*, 1911, p. 381.

\**Falcaria vulgaris*, Bernh. (*Prionitis Falcaria*, Dum). Alien. "South-east of Europe," Dunn. 3. Par Harbour, 1908, Vigurs; 1915, Thurston.

**Sium erectum**, Huds.

5. Tresean, Cubert, Rilstone, *R.I.C.*, 1911, p. 381. Lower down the valley near Treago Mill, Crantock, Vigurs.

**Pimpinella Saxifraga**, Linn. Dwarf form.

1. Boscastle Cliffs, 1915, Vigurs.
5. Near Stepper Point, Padstow, 1918, Thurston.
7. Kynance Downs, Vigurs.

**Chærophyllum temulum**, Linn.

"Very rare in divisions 7 & 8" (*Flora*).

7. Helston, Davey, *Tent. List*.
8. Penders Meadow near Lelant Church, 1915, Rees. Marazion, Davey, *Tent. List*.

**Scandix Pecten-Veneris**, Linn.

3. "Par" (*Flora*). Par Harbour; potato field and grass land, Par Moor, 1922, Medlin. Charlestown, 1916, Rilstone.
5. Cubert, Vigurs. Trevail and Tresean, Cubert, 1918, Taylor. Camborne, 1854, Herb. Penzance Museum.
6. Boscawen Park, Truro, Arnett.
7. Hingey, Gunwalloe, 1916, Tresidder.

**Anthriscus vulgaris**, Bernh.

3. Charlestown, Tresidder.
5. Holywell Bay, 1916, Thurston. Hayle Towans (sand-dunes), 1912, Davey.
6. One plant in a newly made hedge at Perran-ar-worthal, 1912, Davey.

**A. sylvestris**, Hoffm.

5. Peculiarly rare in Newquay district; seen only in two places, Vigurs.

\**A. Cerefolium*, Hoffm. (*Cerefolium sativum*, Bess). Alien. "Long cultivated in England under the name of Chervil, and now surviving near gardens," Dunn. 5. A few plants in waste-ground, and in garden of Falcon Inn, St. Mawgan-in-Pydar, 1912, Vigurs, *R.I.C.*, 1913, p. 226. 6. Newly made garden hedge, Perranwell, 1912, Davey, *R.I.C.*, 1913, p. 226. Waste-ground between Truro and Malpas, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 109.

**Fœniculum vulgare**, Mill.

1. Tamerton; Bude, 1918, Harvey.
3. Charlestown, Tresidder.
4. Rock, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 381.
6. Ruan Laniorne, 1913, Thurston. Probus village, Tresidder, *R.I.C.*, 1911, p. 381.
8. Gulval, 1921, R. L. Smith and W. D. Watson.

**Œnanthe pimpinelloides**, Linn.

3. "Trelawney Marsh" (*Flora*). This should be referred to *Œ. Lachenalii*, F. H. Perrycoste.
8. "Near Marazion" (*Flora*). Coast at Venton Farm, Marazion, 1921, Rees.

\***Æ. Lachenalii**, C. Gmel. var. **approximata** (Mérat).

5. Newquay, Druce. "The type has bipinnatisect radical leaves with obovate 'incisés-crénulés' segments. The var. has pinnatisect radical leaves, the trifid segments of which are "cunéiformes-obtus." *B.E.C.*, 1917, p. 31.

\***Daucus gummifer**, Link. var. **intermedius**, Corb.

6. Sea Cliffs near Mevagissey, 1919, White. "The plants from this East Cornwall locality correspond with those gathered by me at Bedruthan near Newquay on the west side of the County in 1912. . . . I have noticed that the mature umbels are as a rule flat, and only occasionally convex." *B.E.C.*, 1919, p. 821. See also *Journ. Bot.*, 1911, p. 364; 1917, p. 320.

**Caucalis latifolia**, Linn.

3. Par Harbour, Vigurs, *R.I.C.*, 1911, p. 381; 1914, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 109.  
 5. Old garden ground, Reen Farm, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 381.  
 6. Ponsanooth, Miss E. Blackett, *ibid.* Falmouth Docks, 1914, Miss A. B. Cobbe, *B.E.C.*, 1916, p. 488.

**C. daucoides**, Linn.

3. "Par, 1902-7" (*Flora*). Par Harbour, 1917, Miss M. Cobbe.  
 6. "Falmouth Docks, 1901-4" (*Flora*). Still there in 1917, Miss A. B. Cobbe. Beach outside docks, 1917, Thurston.

**C. arvensis**, Huds. (*Torilis infesta*, Spreng).

4. East Cornwall, Hart Smith, *Top. Bot.* 1883 (*Flora*). The Rev. T. N. H. Smith-Pearse (Hart Smith) writes:—"I was staying with Darell at Trewornan in St. Minver, and found two plants in a cornfield by the Camel, after the corn was cut. I have often wondered if it was a bit of *C. Anthriscus* cut down in the reaping, and so like low growing *infesta*, as we then named it. But I can hardly think so, as I had no doubt at the time, and Watson confirmed it. It must have come as seed with the corn."

**C. nodosa**, Scop.

4. Pentire, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 381.  
 5. St. Agnes, 1912, Rilstone. Cultivated field, Phillack, Rees.

## CORNACEÆ.

\**Cornus stolonifera*, Michx. Alien. "Native in wet places in the Northern States of North America, much grown for ornament in Britain, readily establishing itself, and several times observed as an escape from cultivation." Dunn. Several plants on bank of stream near Callestick, 1916, Rilstone, B.E.C., 1916, p. 488.

## CAPRIFOLIACEÆ.

**Adoxa Moschatellina**, Linn.

3. Marsh below Sowden's Bridge, Trelawney river, 1918, H. M. M. and W. B. C. Perrycoste. Restormel, and roadside hedges round Lostwithiel, 1920, Harvey.
4. Common round Camelford, Tresidder. Lane between Wadebridge road and St. Teath; lane near Lemail Farm, St. Mabyn, 1915, Thurston.
5. Lawry's Mill, St. Mawgan-in-Pydar, about 1900, Miss B. Martyn.

**Sambucus nigra**, Linn. var. *laciniata*, Mill.

3. "Tree between Doublebois and St. Neot" (*Flora*). Tree grown from cutting in garden of Mr. R. Pease at Lostwithiel, 1920, Thurston.
5. Camborne, Bunney.

**S. Ebulus**, Linn.

3. "Polperro" (*Flora*). The solitary site is Head o' Ditch, F. H. Perrycoste.

**Viburnum Opulus**, Linn.

1. Near Tregune Mill, Warbstow, 1915, Vigurs.
2. Pillaton, Hawk, *R.I.C.*, 1911, p. 381.
3. Yearl's Coombe, Trelawney river, Mrs. and H. M. M. Perrycoste. Marsh, Lostwithiel. 1920, Thurston.
5. Hendra, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 381.
8. Gurlyn Woods near Relubbus, 4 miles E. of Marazion. 1922, Rees.

*Lonicera Caprifolium*, Linn. 5. Chyverton Wood, 1916, Thurston.

*Leycesteria formosa*, Wallich. 3. Par Harbour, 1914, Vigurs.



## RUBIACEÆ.

**Rubia peregrina**, Linn.

3. Talland; Lansallos; Lanivet, all on or near cliffs, Mrs and H. M. M. Perrycoste. Charlestown, Tresidder.
5. Phillack, 1913, Miss A. B. Cobbe.
6. Mylor Churchtown; Trefusis, 1921, R. L. Smith and W. D. Watson.
7. Kennack Sands, 1914, Miss M. Cobbe. Pradannack Downs, 1914, Thurston.
8. Field by St. Erth Station; lane near Pra Sands, 1911, Davey. Near Ludgvan; Lamorna Cove, 1913, Miss M. Cobbe. Porthgwarra, Rev. H. E. Fox, *R.I.C.*, 1911, p. 381.

**Galium Cruciata**, Scop.

3. Patch between railway and river above the railway station, Lostwithiel, possibly a railway immigrant, 1920, Harvey and Thurston. A few plants in field hedge, Charlestown, 1920, Tresidder. One plant, Par Harbour, 1920, Medlin. Previously recorded with certainty only from Portquin.

**G. Mollugo**, Linn, var. **insubricum** (Gaud).

8. Carbis Bay; St. Ives, Rees.

Hybrid. **G. Mollugo** × **verum**.

2. Roadside, Tregantle Fort, with both parents, 1919, Rilstone.
5. Newquay, Vigurs. Stapes, Perranzabuloe, Tresidder.

**G. palustre**, Linn. var. **elongatum** (Presl).

5. Trewerrey, Newlyn East, Rogers.

**G. uliginosum**, Linn.

3. Railway-bank near Par Sands, 1919, Rilstone.

**G. tricorne**, Stokes.

3. "Par, 1902" (*Flora*). Par Harbour, 1919, Rilstone. Ballast-heap, Charlestown, 1920, Tresidder.
6. "Falmouth Docks, 1902" (*Flora*). Seen there in 1917, Miss M. Cobbe.

**Asperula odorata**, Linn.

3. Portlooe near West Looe, Miss C. Grigg. St. Blazey Gate; Holmbush, St. Austell, Medlin.
5. Two Burrow Hill, St. Allen, Tresidder.
6. Kenwyn Churchyard, Foott.
8. Tregavara and Boscathnoe lane, Penzance, Rees.

*A. arvensis*, Linn. 3. Ballast-heap, Charlestown, 1915, Tresidder.

**VALERIANACEÆ.****Valeriana officinalis**, Linn.

4. Wadebridge-Camelford road, near Pengenna Camp, 1915, Thurston.
8. Carbis Bay, 1912, Rees.

**Kentranthus ruber**, DC.

Also known as Blooming Bess, Bouncing Bet, Pride of Fowey and other places.

2. Saltash, with white flowers, 1921, R. L. Smith and W. D. Watson.
3. St. Germans, 1921, R. L. Smith and W. D. Watson. Polperro, Mrs. and H. M. M. Perrycoste.
6. Port Holland, 1913, Thurston. Mylor quarry, 1921, R. L. Smith and W. D. Watson.
8. Gwinear, with white flowers; Ludgvan, 1921, R. L. Smith and W. D. Watson.

**Valerianella eriocarpa**, Desv.

3. Ballast-heap, Charlestown, 1920, Tresidder.

**V. carinata**, Loisel.

The first record (*Flora*) should read:—Ley, *B.E.C.*, 1876.

6. Garden wall, Mylor Bridge, 1917, Mrs. and H. M. M. Perrycoste.
7. Gweek Bridge, 1914, Thurston.
8. Lelant, 1912, Thurston.

**V. rimosa**, Bast.

4. Castle Killibury, Vigurs.
7. One of the plants collected by the Rev. E. S. Marshall in a cornfield between Cury and Gunwalloe had hairy fruit analagous to *V. dentata*, var. *mixta*. *Journ. Bot.*, 1918, p. 186.

**V. dentata**, Poll.

1. Field near Millook; Boscastle, 1915, Thurston.
2. Pillaton, Hawk, *R.I.C.*, 1911, p. 381.
3. Par, 1914, Vigurs.
6. Veryan, 1913, Thurston.

**DIPSACEÆ.****Dipsacus sylvestris**, Huds.

3. Talland, Mrs. and H. M. M. Perrycoste. Ballast-heap, Charlestown, Tresidder.
5. Porth; East Pentire, and elsewhere round Newquay, Vigurs. Abundant on slope of hill, Holywell Bay, 1916, Thurston.
8. Shore between Penzance and Newlyn, 1921, Thurston.

**\*Scabiosa Succisa**, Linn. var. **hispidula**, Peterm.

5. East Pentire, Newquay (approaching var. *hispidula*), 1914, Vigurs, *B.E.C.*, 1915, p. 350.
7. A strongly hairy plant, Kynance, Dr. Ostefeld, under the name *Succisa præmorsa*, Gil. var. *hispidula*, Peterm. *New Phyt.*, 1912, p. 120; *B.E.C.*, 1912, p. 163.

**S. Columbaria**, Linn.

3. Lane, Polmear near Par, 1920, Medlin.

**COMPOSITÆ.****Eupatorium cannabinum**, Linn.

Also known as the Virgin Mary.

7. Plant at the Lizard with undivided leaves, probably not the var. *indivisa*, DC." Druce, *New Phyt.*, 1911, p. 314.

*Grindelia squarrosa*, Dunal. 3. "Casual at Par, 1901-2" (*Flora*). Several plants at the harbour, 1917, but disappeared in 1920, Thurston.



**Solidago Virgaurea**, Linn.

7. "A very dwarfed form with sub-capitate inflorescence, with leaves varying considerably in width, and the outer florets scarcely as large as in *cambrica*, on the Lizard Downs." *New Phyt.*, 1911, p. 314.

\**S. lanceolata*, Linn. Alien. Garden origin. 5. A small colony remote from houses on roadside near Perranzabuloe for the last twelve years, *B.E.C.*, 1917, p. 110; Miry bottom near Penhallow, Perranzabuloe, Rilstone.

**Aster salignus**, Willd.

3. Par, 1911, Davey, *W.E.C.*, 1911-12, p. 341.

**A. Tripolium**, Linn.

2. Salt-marsh, Shillingham, Hawk, *R.I.C.*, 1911, p. 381.  
6. Marsh, Ruan Laniorne, 1913, Thurston.  
7. A single plant, Church Cove, Landewednack, 1914, Thurston.  
8. Lelant Marsh, 1914, Rees. Porthgwarra, Rev. H. E. Fox, *R.I.C.*, 1911, p. 381.

Var. **discoideus**, Syme.

3. Par, 1919, Mrs. and H. M. M. Perrycoste.  
4. Egloshayle Marsh; mud-flat, Wadebridge, 1918, Thurston.  
5. Dennis Cove, Padstow, 1918, Thurston.

\*Var. **glaber**, Bolzon.

6. Near Veryan, Thurston. "The involucre scales quite glabrous, not quite typical." *B.E.C.*, 1915, p. 199.

\**Helianthus tuberosus*, Linn. Jerusalem Artichoke. Alien. Quite common as an outcast at Newquay, Par, and other places, Vigurs.

**Erigeron acre**, Linn.

4. Rock, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 381.  
8. Hedge near St. Ives, 1916, Hosking.

**Filago germanica**, Linn.

3. "Charlestown" (*Flora*). Very large plants on ballast-heap, Charlestown, 1920, Tresidder.  
6. Smothering a field, Pennare Farm near Veryan, 1913, Thurston.  
7. Near Mullion Cove, 1914, Thurston.



**F. minima**, Fr.

3. Charlestown; Starrick Moor, St. Austell, *R.I.C.*, 1911, p. 381; London Apprentice, near St. Austell, Tresidder.

**Antennaria dioica**, Gaertn.

5. "North of Zelah" (*Flora*). The locality is Nathaniels. Polgoda Down, Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 381. Railway embankment near Angarrack viaduct, Hayle, 1917, Rees. A curious habitat for this plant, C. C. Vigurs.

**Gnaphalium uliginosum**, Linn. var. **pilulare** (Wahl). Koch.

7. Mullion, Miss Todd, *B.E.C.*, 1920, p. 128.

**Inula Helenium**, Linn.

1. Stream, Mere Lake, Bude, 1915, Harvey.  
7. Farm on hill above Cadgwith, 1893 and 1917, Mrs. Perrycoste.

**I. squarrosa**, Bernh.

1. Week St. Mary, Tresidder.  
4. Trevisquite Manor, St. Mabyn, Tresidder.  
5. East Wheal Rose and Legonna, Newlyn East, and many other places in Newquay district, Vigurs. Porth Towan, Davey, *R.I.C.*, 1911, p. 381.  
6. Near Veryan, 1913, Thurston.

**I. crithmoides**, Linn.

5. St. Agnes Head, Rilstone.

*Xanthium spinosum*, Linn. 4. Wadebridge, 1911, Borlase.

\**X. orientale*, Linn. Alien. China, Japan, Ceylon. 3. Par, 1909, Vigurs, *B.E.C.*, 1914, p. 15.

\**X. Strumarium*, Linn. Alien. "Widely spread in all parts of the World," Dunn. 3. Par Harbour, Vigurs, *R.I.C.*, 1911, p. 381.

*Ambrosia trifida*, Linn. 6. Fowl-run, Falmouth Docks, 1917, Wise and Smith-Pearse.

\**A. tenuifolia*, Gren. & Godr. Alien. 1. Sandy field, Phillack, with other introduced plants, 1915, Rees.

*A. artemisiæfolia*, Linn. 3. "Par, Hume" (*Flora*). Par Harbour, 1921, Mrs. Perrycoste.

**Bidens cernua**, Linn.

3. Bogga Mill, Lanreath, 1914 et sq, Mrs. and H. M. M. Perrycoste.

**B. tripartita**, Linn.

1. Exe Farm, Week St. Mary, Tresidder.
2. Cadson in the Notter Valley, 1911, Miss Hambly.
3. Roadside, Trenean near Hessenford; Sandplace, abundant, 1913, et sq, Mrs. and H. M. M. Perrycoste.
5. Rejerrah, Newlyn East, 1916; damp meadow adjoining Bolingey Moor near Perranporth, R.I.C., 1911, p. 381.
6. Pond, Tregoney, 1913, Thurston.
7. Poldhu, 1916, Mrs. and H. M. M. Perrycoste. Gunwalloe Valley, 1914, Tresidder.

\**Hemizonia pungens*, Torrey & Gray. Alien. United States.

3. Par Harbour, 1917, Rilstone, B.E.C., 1917, p. 111.

\**Lonas annua* (Linn), comb. nov. *L. inodora*, Gaertn. Fr. II., 396. *Atanasia annua*, L. sp. Pl. II., 1182, 1763. Alien. 6. Waste-ground between Truro and Malpas outside Boscawen Park, which contains many foreign plants, Rilstone, B.E.C., 1918, p. 287.\**Achillea Millefolium*, Linn, var. *lanata*, Koch.

5. Some plants, hardly recognisable as Millefoil, at Newquay in the dry season, 1921, Vigurs.

**A. Ptarmica**, Linn.

1. Otterham, Davidstow, and St. Gennys parishes, abundant, Vigurs.
2. Pillaton, common, Hawk, R.I.C., 1911, p. 381.
3. Trenean Marsh near Hessenford; by Trelawney river below Sowden's Bridge, Mrs. and H. M. M. Perrycoste.
8. Marazion Marsh, Rees.

*A. nobilis*, Linn. "Colony of about 20 plants at Par, 1902" (*Flora*). Flourishing at the harbour, 1920. "The odour when fresh is distinctly a mixture of the odours of *A. Millefolium* and *Tanacetum vulgare*, with the tansy smell predominant." Rilstone, B.E.C., 1917, p. 229.

**Diotis maritima**, Cass.

Cited in the *Flora* as extinct.

3. A single plant in flower, Par Sands, 1915, Wise and Thurston, *Journ. Bot.*, 1915, p. 281. Misprint therein " Par Sands " for Pra Sands, quoting from Davey's *Flora*. Several small plants, 1920, Thurston.
8. Land's End district, Hosking, *B.E.C.*, 1916, p. 490. Mr. Hosking prefers to keep the exact locality secret, but has sent me excellent specimens every year since 1916, C. C. Vigurs. The plant was seen in the same locality by the Rev. F. Granville May and the Rev. (afterwards Bishop) J. Hannington, in 1877. E. Thurston.

**Anthemis arvensis**, Linn.

2. Pillaton, Hawk, *R.I.C.*, 1911, p. 381.
3. Polperro, frequent, Mrs. and H. M. M. Perrycoste. Par Harbour, 1917, Miss M. Cobbe and F. Rilstone.
4. Camelford railway station, 1915, Wise.
6. Greenwith, Perran-ar-worthal, 1912, Davey.

**Chrysanthemum segetum**, Linn.

Called Gajah (Cornish Celtic for daisy) in Breage parish, W. Tresidder. See also *C. Leucanthemum* (*Flora*).

1. St. Clether, 1908, Harvey.
2. Pillaton; near Clapper Bridge, Hawk, *R.I.C.*, 1911, p. 381.
3. Cheesewring, 1905, Harvey. Abundant in a field near Dozmary Pool, 1915, Mrs. and H. M. M. Perrycoste.
4. Blisland, 1908, Harvey. Harlyn Bay, Miss C. E. Larter, *R.I.C.*, 1911, p. 381.
8. St. Erth; St. Ives. " June-October " (*Flora*). In flower annually, St. Ives, at Christmas, Thurston.

\**C. coronarium*, Linn. Alien. 5. A few plants (garden escape) on railway, Newquay, Vigurs.

\**C. lacustre*, Brot. (*latifolium*, DC). Alien. 7, Penrose, Druce, *B.E.C.*, 1912, p. 164.

\**C. maximum*, DC. Alien. 5. A large and increasing patch, which has ousted all other vegetation, at Watergate, Mawgan-in-Pydar, 1913, Vigurs, *B.E.C.*, 1913, p. 473; 1914, p. 16.

**Matricaria inodora**, Linn.

2. Pillaton, Hawk, *R.I.C.*, 1911, p. 382.
6. Ruan Lanihorne, 1913, Thurston.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 382.
8. St. Ives, 1912, Thurston.

Var. **salina**, Bab.

3. Polperro, Mrs. and H. M. M. Perrycoste.
6. Sea-coast, Mevagissey, 1919, White, *B.E.C.*, 1919, p. 823.

**M. Chamomilla**, Linn.

3. Looe dust-heaps, 1917, Mrs. and H. M. M. Perrycoste. Charlestown, Tresidder.
6. Bissoe, Kea, Davey, *R.I.C.*, 1911, p. 382. Fowl-run, Falmouth Docks, 1917, Thurston.

**M. suaveolens**, Buchenau.

Recorded from many localities in every division of the County. "The rapid advance of this American species throughout Britain is most remarkable. It follows the roads, and may owe its origin in many cases (as *Juncus tenuis* probably does) to American fodder or corn." *New Phyt.*, 1911, p. 314. It also seems to have been, in its early progress, specially connected with fowl-runs, Vigurs.

It has been found near the lighthouse under Herma Ness. Shetland, the most northern point of the British Isles. Druce, *B.E.C.*, 1920, p. 130.

*Santolina Chamæ-Cyparissus*, Linn. 4. Rock Sandhills, Boyden, *W.E.C.*, 1911-12, p. 342.

**Artemisia Absinthium**, Linn.

1. Plentiful by St. Gennys Church, 1919, Smith-Pearse.
4. Trevisquite, St. Maby, Tresidder.
5. Abundant at Penrose near St. Ervan, 1918, Thurston. St. Agnes, 1912, Rilstone.

\**A. biennis*, Willd. Alien. North America. 3. Par, Druce, *Journ. Bot.*, 1910, p. 56; *R.I.C.*, 1911, p. 382.

**Petasites ovatus**, Hill.

Commonly known as Wild Rhubarb.

1. Week St. Mary, Tresidder.



3. Near Lanteglos Church, Tresidder. Grass land between Lostwithiel and Restormel, 1920, Thurston.
4. "Probably near Sportsman's Arms, Camelford, Vigurs" (*Flora*). Big patch in flower on roadside, 1915, Thurston.
5. Trevella, Crantock, Tresidder.
6. "Veryan churchyard" (*Flora*). Pond below churchyard, 1913, Thurston.
8. In hedge of cultivated field, Penzance, 1921, Thurston.

*Doronicum Pardalianches*, Linn. 6. One plant in quarry, Veryan, 1913, Thurston.

**Senecio sylvaticus**, Linn.

2. Higher Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 382.
3. Charlestown, Tresidder.
4. Pentire, St. Minver, Rev. H. E. Fox, *loc. cit.*
6. Near Veryan, 1913, Thurston. North of Grampound, Vigurs.
7. Coverack, Rev. H. E. Fox, *loc. cit.*

*S. viscosus*, Linn. 3. Ballast-heap, Charlestown, 1921, Tresidder.

\***S. squalidus**, Linn. Oxford Ragwort. Casual.

Recorded as a probable error in the *Flora*, but now included. "Probably a native of Sicily. It is supposed to have been introduced into the Oxford Botanical Gardens, and to have spread from there." Dunn.

3. Par Harbour, 1914, Vigurs. Par Harbour, and along the railway near St. Blazey Station, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 112.

**S. erucifolius**, Linn.

1. Roadside near Poundstock, 1915, Thurston. Week St. Mary, Tresidder. Near Hentervain, St. Gennys, Vigurs.
3. One or two plants at Pennyland, West Looe, for several years, Adams; missing in 1917, Mrs Perrycoste.
7. "Patch on Lizard road, Bochym" (*Flora*). The precise spot is at Clahar stream, more than a mile from Bochym, near a bridge with iron rails, Davey.

**S. Jacobæa**, Linn. var. **discoideus**, Linn.

5. Wheal Butson, St. Agnes. 1915, Rilstone.

**S. aquaticus**, Hill. var. **pennatifidus**, Gren. & Godr.

5. Penhallow Moor, Newlyn East; Quintrell Downs; near Crantock Plains, Vigurs.

**S. Cineraria**, DC.

3. Naturalised on old wall near St. Austell, Tresidder.
5. Railway embankment near Angarrack viaduct, Hayle, Rees.

Hybrid. **S. Cineraria** × **Jacobæa**.

5. "Slopes above Newquay harbour, Pugsley" (*Flora*). Harbour Cliffs, and Fly Cove, Newquay, Vigurs, *B.E.C.*, 1913, p. 474.

**Carlina vulgaris**, Linn.

1. Efford Down, Bude, 1915, Thurston.
3. Gribbin Head, Medlin. Bodmin Road Station, 1918, Harvey.
5. Cosworth Downs, Colan. Vigurs.
7. Kennack Sands, 1914, Thurston.
8. Pra Sands, 1911, Davey. Carbis Bay, 1912, Thurston.

**Arctium majus**, Bernh.

3. Polmear near Par, Medlin.

**A. nemorosum**, Lej.

3. Gribbin Head, Medlin.

**\*A. minus**, Bernh. var. **purpurascens**, Blytt.

4. Between St. Minver and Polzeath 1907, Herb. C. Bucknall, *R.I.C.*, 1913, p. 228.

*\*Echinops lanatus*, Steph. ex DC. Alien. Garden origin. 1. Morwenstow, 1918, Tresidder.

**Carduus pycnocephalus**, Linn. var. **tenuiflorus** (Curt).

3. Charlestown, Tresidder.
- A small form occurs at Par Harbour and Kennack Sands, Thurston.

**C. crispus**, Linn. var. **acanthoides** (Linn).

3. Ballast-heap, Charlestown, 1922, Tresidder. Mr. C. E. Salmon writes:—"With its large solitary heads, and non-cottony undersides to leaves, this seems to be var. *acanthoides*, but in ballast-heaps one is not sure. The peduncles are remarkably spinous."

**C. nutans**, Linn.

1. Week St. Mary, Tresidder.
2. Pillaton, common, Hawk, *R.I.C.*, 1911, p. 382.
3. Gribbin Head, Medlin.
4. Castle Killibury, 1913, Thurston.
5. Fields between Hayle and Phillack, 1915, Rees.
6. Near Ruan Laniorne, 1913, Thurston. Tresillian; Gram-pound Road; Probus, Davey, *R.I.C.*, 1911, p. 382.
7. Coverack, Rev. H. E. Fox, *ibid.*
8. On flats between Hayle and Phillack church, 1921, R. L. Smith and W. D. Watson. Near Sennen Board School, Rees.

\**C. hamulosus*, Ehrh. Alien. S.E. Europe. 3. Par, 1913, Daltry, *B.E.C.*, 1913, p. 327.

\**C. nigrescens*, Vill. Alien. Europe. One large plant at Par, 1913, Vigurs.

**Silybum Marianum**, Gaertn.

3. Criŋnis, one plant, 1915-20, Medlin.
5. Blowing House, St. Agnes, Tresidder.

*Carthamus lanatus*, Linn. 3. Par Harbour, 1912, Vigurs. Two plants there, 1920, Medlin.

\**C. tinctorius*, Linn. Alien. 3. Looe dust-heaps, 1919, Thurston. Highways, Tywardreath, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 113. 6. Waste-ground outside Boscawen Park, Truro, 1922, Borlase.

**Centaurea nigra**, Linn. var. **decipiens** (Thuill).

4. Pentire and Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 382.

\*Var. **radiata**, Koch.

3. Polperro, 1917, Rilstone. Bodelva near St. Blazey; Par Harbour, 1921, Medlin.
5. Metha Wood, Newlyn East, 1914, Vigurs.
7. Kynance Downs, 1912, Vigurs.

**C. Scabiosa**, Linn.

4. Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 382.
6. Newham railway, 1911, Foott.
8. Plentiful about Penzance, Rees.

**C. Cyanus**, Linn.

1. Bude, single plant, 1916, Wise.
2. Penrest, Lezant, Tresidder.
3. Doubletrees, Par. About a dozen plants in a field of Crimson Clover, 1922, Medlin.
5. Cornfield, Lambourne Hill, Perranzabuloe, 1913, Rilstone.
6. Falmouth Docks, 1914, Miss M. Cobbe.
8. "Casual, Penzance" (*Flora*). Cornfield, Trevaylor near Penzance, 1914, Rees.

Very rare in cornfields in Cornwall.

**C. Calcitrapa**, Linn.

3. Ballast-heap, Charlestown, 1922, Tresidder.
5. Cargoll, Newlyn East, Tresidder.

**C. solstitialis**, Linn.

3. Near Liskeard, 1909, Clarke.
5. Railway-bank, Perranwell, Perranzabuloe, Tresidder. Phillack Towans (sand-dunes), 1915, Rees.

*C. melitensis*, Linn. 3. "Par, 1908" (*Flora*). In good quantity at the harbour, 1914, Vigurs, *B.E.C.*, 1914, p. 148; Miss M. Cobbe, *B.E.C.*, 1917, p. 113. Not a common plant in Malta, Vigurs. 6. Waste-heap, Penryn, 1921, Tresidder.

\**C. aspera*, Linn (*C. Isnardi*, Linn). Alien. Mediterranean. 3. Par, 1911, Davey, *R.I.C.*, 1913, p. 226. Also recorded from there by Druce, *B.E.C.*, 1913, p. 388.

**Cichorium Intybus**, Linn.

3. Charlestown, Tresidder.
4. Pentire, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 382.
5. Abundant in the neighbourhood of Crantock, Vigurs. Gwithian. abundant, 1921. R. L. Smith and W. D. Watson.
6. Mylor Bridge, 1921, R. L. Smith and W. D. Watson.
7. Porthoustock, Rev. H. E. Fox. *loc. cit.*
8. Frequent in meadows by roadside from Marazion to Pra Sands, 1911, Davey.



**Picris hieracioides**, Linn.

3. Par, frequent, Davey, *R.I.C.*, 1911, p. 382. Par Harbour, 1921, Medlin.
5. Porth four-turnings, 1915, Vigurs. Trevemper, Crantock; Hendravossan and Reen Farm, Perranzabuloe, Tresidder, *loc. cit.* Wall of field near railway station, Perranporth, 1916, Thurston.
7. Coverack, rather common, Rev. H. E. Fox, *R.I.C.*, 1911, p. 382.

**P. echioides**, Linn.

4. Pond between St. Endellion and St. Minver, 1915, Thurston.
5. Gwithian, 1921, R. L. Smith and W. D. Watson.
8. Breage, Tresidder. Pra Sands, Davey.

**Crepis taraxacifolia**, Thuill.

3. Seaton, Miss C. P. Foster.
5. Side of railway from Mount Hawke to Perranporth, 1911, Davey.
6. Ruan Laniorne, 1913, Thurston. Falmouth Docks, abundant, Davey, *R.I.C.*, 1911, p. 382.
7. Mullion, 1914, Miss M. Cobbe.
8. St. Ives, 1912, Thurston.

"This plant is increasing in Cornwall at an alarming rate, and becoming a troublesome weed. Ten or twelve years ago it was one of the rarer species of the Newquay district; this past summer I saw several hayfields near the railway station, in which this was almost the dominant plant." C. C. Vigurs, *R.I.C.*, 1911, p. 382. "The advent and spreading of *Crepis taraxacifolia* has driven out to some extent the once ubiquitous *C. capillaris*, just as *Veronica Tournefortii* has reduced the numbers of *V. agrestis*." *B.E.C.*, 1914, p. 33.

\*Var. **integrifolia**, Druce, ined.

3. Biscovey near St. Blazey Gate, 1921, Medlin. A curious form or variety with entire leaves.

**C. capillaris**, Wallr.

5. Near Newquay. mimicking *C. taraxacifolia*. 1915, C. C. Vigurs. Mr. C. E. Salmon was of opinion that it was "a strong form of *capillaris*, probably coming under *var. runcinatus*, Bisch." *B.E.C.*, 1915, pp. 353-4.

\*Var. **diffusa** (DC).

3. River-bank, Lostwithiel, 1920, Thurston.

**C. biennis**, Linn.

3. Par, Druce, *Journ. Bot.*, 1911, p. 303.

\**Lagoseris nemausensis* (Gouan) Koch. (*Pterotheca sancta*, Koch). Alien. South Europe. 3. Ballast-heap, Charles-town, 1920, Tresidder, *B.E.C.*, 1920, p. 27. Recorded from coal ash refuse, Millbay Pier, Devon, 1875, Briggs in Herb. Watson. See *B.E.C.*, 1916, p. 419.

\***Hieracium Pelceterianum**, Mérat.

5. Road to Prideaux House, Padstow, 1919, Mrs. Wedgwood. In *B.E.C.*, 1919, p. 664, the locality is given as "near Wade-bridge."  
6. Blackwater, Scorrier, 1920, Vigurs.

**H. aurantiacum**, Linn.

1. Otterham, 1916, Smith-Pearse.  
3. Abundant in St. Winnow churchyard, 1920, Thurston. St. Blazey Gate, Tresidder.  
5. Goonbell near St. Agnes, Rilstone.  
The records require revision.

\***H. brunno-croceum**, Pugsley, *Journ. Bot.*, March, 1921.

5. Newlyn East, Reid, 1903, *loc. cit.* Newlyn East churchyard, Wyatt (*Flora*). Both records as *H. aurantiacum*.  
Mr. Pugsley (*loc. cit.*) divides *H. aurantiacum* into two distinct species, viz.:—(a) a broad-leaved form with underground stolons, from Scotland and the North of England—the Linnæan type; (b) a narrow-leaved form with leafy stolons, frequent in southern gardens, which he describes as a new species, *H. brunno-croceum*.

\***H. silvaticum**, W. & N.

Var. **microcladium**, Dahlst.

3. Doublebois railway station, 1920, Harvey.

Var. **pellucidum?** Laestad.

2. Wall, Upton churchyard, close to Cheesewring railway, 1920, Harvey.

**H. vulgatum**, Fr.

1. G.W.R. goods-station, Launceston, 1917, Wise.

\*Var. **sciaphilum** (Uechtr).

3. Wall close to St. Austell railway station, 1917, Tresidder.

**Hypochoeris glabra**, Linn.

3. Par, 1911, Davey.

\***H. radicata**, Linn, var. **minor**, Schultz & Bip.

4. Pentire, St. Minver, 1919, Smith-Pearse.

**H. maculata**, Linn.

7. "Lizard" (*Flora*). Abundant among boulders on Kynance Downs, Thurston. "The Lizard specimens are similar (though not so large as yours) to those from Humphrey Head, Lancashire, and are the var. *pinnatifida*, Weiss (1895)=var. *Mulleri*, Lange (1864)." Arthur Bennett in letter to F. H. Davey.

\***Leontodon nudicaule**, Banks & Soland. var. **leiolena**, Druce.

7. "At the Lizard this was the common plant," Druce, *New Phyt.*, 1911, p. 315; *R.I.C.*, 1913, p. 228. "This plant has glabrous periclines. I have noticed it in several places in Cornwall," Davey.

**L. hispidum**, Linn.

2. West Petherwin, 1920, Wise.
3. Par Harbour, 1916, Harvey.

**Taraxacum officinale**, Weber.

In Lindman's *Svensk Fanerogam Flora*, Dahlstedt describes 99 species of Dandelion. The records for the Cornish varieties require revision.

\*Var. **affine** (Jord).

5. East Pentire, Newquay, 1912, Vigurs, *R.I.C.*, 1913, p. 228. Perranporth Sandhills, Davey, *ibid.*



**T. erythrospermum**, Andrz.

1. Near Tintagel, Salisbury.
5. Gannel, Newquay, Vigurs.
6. Pendower beach, Gerrans Bay, 1913, Thurston.

**T. palustre**, DC.

3. Near Cardinham, Salisbury.
4. Roche Holy Well, 1912, Vigurs.

**Lactuca virosa**, Linn.

6. Falmouth Docks, Davey, *R.I.C.*, 1911, p. 382.

*L. Serriola*, Linn. 3. Ballast-heap, Charlestown, Tresidder.

**L. muralis**, Gaertn.

1. Several plants in Minster churchyard, 1915, Harvey. Probably the seeds were introduced in a wreath sent from outside Cornwall.

**Sonchus oleraceus**, Linn. var. **lacerus**, Willd.

7. "Lizard, Druce, 1906" (*Flora*). Seen there by Dr. C. H. Ostenfeld, *B.E.C.*, 1918, p. 338.

**\*S. asper**, Hill, var. **laciniatus**, Lej.

6. Falmouth, Druce, *B.E.C.*, 1918, p. 386.
7. Mullion, 1904, *ibid.*

**Tragopogon minus**, Mill.

4. Single plant by roadside, Rock, St. Minver, 1915, Thurston.

**T. pratense**, Linn.

1. Poughill, 1906, Harvey. Langford Bridge, four or five plants, Tresidder.
3. Hedge between No Man's Land and Morval Park, 1917, Mrs. and H. M. M. Perrycoste. Polmear near Par, 1920; Par Harbour and Sands, 1915-20, Medlin.
6. Little Falmouth near Flushing, among ruined buildings, 1917, Thurston.
8. Lelant side of Hayle ferry; Lelant golf links, 1912, Thurston.



**T. porrifolium**, Linn.

5. "Padstow" (*Flora*). Abundant in the churchyard, 1918, Thurston.  
 6. Gerrans, Herb. Salt at Sheffield, teste Arthur Bennett, *R.I.C.*, 1911, p. 382.

## CAMPANULACEÆ.

**Jasione montana**, Linn.

8. Bank on Land's End road between Trereife and Penzance, 1921, Thurston. Apparently type, but leaves of rosettes remarkably large, H. W. Pugsley *in lit.*

**Dwarf form.**

5. Grassy, sandy slope near the sea, Porth Towan, 1921, Thurston. "It may be identical with var. *maritima*, Bréb (an invalid name), which I have not seen, or with var. *nana*. I think the plant is really intermediate between *latifolia* and *littoralis*." Pugsley *in lit.* Other dwarfed plants, which occur on the same slope, are *Chrysanthemum Leucanthemum*, *Serratula tinctoria*, *Hieracium umbellatum*, var. *curtum*, and *Stachys officinalis*, var. *nana*.

Var. *latifolia*, Pugsley, *Journ. Bot.*, 1921, p. 215.

5. Newquay, Pugsley, *loc. cit.*  
 8. St. Ives, *ibid.*

Var. *littoralis*? Fr.

8. Gurnard's Head, 1912, Thurston.

**Wahlenbergia hederacea**, Reich.

2. Lynher Valley between Newton Ferrers and Pillaton, Hawk, *R.I.C.*, 1911, p. 382.  
 3. Valley from Minions to Upton, 1920, Harvey. Yearl's Coombe, Trelawney river, 1912 et sq; Marsh near Trelawney Mill, but not found for several years, Mrs. and H. M. M. Perrycoste.  
 4. Near Grogley between Wadebridge and Bodmin, Salisbury.  
 5. "Newquay" (*Flora*). Delete the record. Barton Moor, St. Enoder; Killiers near St. Columb Road Station, Vigurs.  
 6. Gilly Bottoms near road from Gwennap to Stithians; near Treatheague between Stithians and Rame, 1921, R. L. Smith and W. D. Watson.  
 8. Stream, Zennor, 1912, Thurston.

**Campanula rotundifolia**, Linn.

2. Two plants at New House, Pillaton, Hawk, *R.I.C.*, 1911, p. 382.
  3. Two or three plants at Par Harbour, 1914, Mrs. and H. M. M. Perrycoste.
  8. "St. Erth" (*Flora*). Hayle, Herb. Penzance Museum.
- \**C. rapunculoides*, Linn. Alien. 1. Garden weed, Launceston, 1917, Smith-Pearse. 5. Sandy field, Phillack, 1915, Rees.

**Legousia hybrida**, Delarbre.

3. Cornfield between Talland and Polperro, not seen for many years; cornfield, Kilmanorth, Talland parish, 1911, not found since, Mrs. and H. M. M. Perrycoste.
  5. Field near Cubert Common, 1917-18, Taylor.
- \**L. Speculum-Veneris*, Linn. (*Specularia Speculum*, DC). Alien. Grain introduction, or garden escape, Dunn. 3. Ballast-heap, Charlestown, 1920, Tresidder.

**VACCINIACEÆ.****Vaccinium Myrtillus**, Linn.

Not so common as indicated in the *Flora*. Absent in Newquay district; nearest place seven miles, Vigurs.

**ERICACEÆ.**\***Calluna vulgaris**, Hull. var. **Erikæ**, Ascher. & Graebn.

7. Lizard Downs above Kynance, found by the Phytogeographical Excursionists in 1911. A rooting prostrate form with descending flowering branches, *New Phyt.*, 1911, p. 315; *R.I.C.*, 1913, p. 228. "Some of the Lizard examples are almost as hairy as the plant we have called var. *pubescens*, Koch, the entire surface of the leaves being very densely pubescent. Other examples in the same cover are subglabrous, the margins of the leaves being ciliate. Probably both our varieties of *Calluna* produce this creeping *Erikæ* state." J. A. Wheldon, *B.E.C.*, 1911, p. 107.

8. Land's End, Dr. Church, *R.I.C.*, 1913, p. 228.

"Dr. Church (*Floral Mechanism*, 147) describes and figures the inflorescence of this variety, which he found at Cape Cornwall, and shows that visiting insects crawl underneath the plant, between the flowers, which are turned downward, and the ground." *B.E.C.*, 1911, p. 25.

***Erica ciliaris***, Linn.

5. A few plants on roadside near Penwartha House on road from Perranporth to Truro, 1921, W. D. Watson. Silverwell Moor, 1916, Rilstone, *B.E.C.*, 1916, p. 577. "Chynhale near Perranzabuloe (Chynhale Farm adjoining Tresawsen Moor), 1911, Syme (*E.B.*, ed. III.) and Bab. (*Man.*) state that both *Tetralix* and *ciliaris* have leaves four in a whorl, while *cinerea* has three in a whorl. This distinction does not hold good, at least in this locality, where plants of *ciliaris* with leaves three in a whorl were quite frequent." Barton, *B.E.C.*, 1918, p. 508.

Hybrid ***Erica ciliaris* × *Tetralix* (*E. Watsoni*, Benth).**

5. "Quintrell Downs" (*Flora*). Delete the record. Mill Down, Ventongimps; swamp near Carnkief pond, Perranzabuloe; Silverwell Moor, Rilstone, *B.E.C.*, 1916, p. 577. Chynhale, Barton, *B.E.C.*, 1918, p. 509.

\****E. Tetralix***, Linn, sub-var. ***parviflora***, Druce.

7. Lizard Downs with the type, Druce, *B.E.C.*, 1913, p. 329.

\****E. cinerea***, Linn, var. ***splendens***, Druce.

3. Valley from Minions to Upton, 1920, Harvey.

5. Newlyn Downs, Vigurs.

6. Carnon Croft, Kea, Davey. Kea Down, Druce.

"A striking form with long and densely flowered inflorescence. At Kea Down and Newlyn Downs it also has very large flowers. Vigurs, *R.I.C.*, 1913, p. 228.

\*Hybrid. ***E. Tetralix* × *vagans*** (*vagans* × *cinerea*, Davey, *Journ. Bot.*, 1910, p. 333; Turrill, *Kew Bull.*, 1911, p. 378; *R.I.C.*, 1911, p. 383. *E. Williamsii*, Druce, *Gard. Chron.*, 2 Dec., 1911, p. 388.)

7. Lane between Bochym and Goonhilly Downs. P. D. Williams. "This interesting hybrid was first noticed about fifty years ago by the late Mr. Richard Davey, M.P. for West Cornwall, but no record appears to have been made of it." Davey, *R.I.C.*, 1911, p. 383.

“ A careful examination of the plant (a solitary bush) and its surroundings induced all three botanists (Graebner, Schroeter, and Druce) to agree that the hybrid must be *E. Tetralix* × *vagans* and not *cinerea* × *vagans*, since the presence of the glandular hairs must have come from the former species. The longer stamens, the inflorescence, and the habit, suggested the presence of *vagans*, both species being in the immediate vicinity.” *New Phyt.*, 1911, p. 316. The hybrid is established at Kew Gardens.

**Erica vagans**, Linn.

5. Reskajague Downs between Portreath and Gwinear, 1921, R. L. Smith and W. D. Watson. Several places on railway bank between Gwinear Road and Hayle, 921, Rees.

**E. vagans**, Linn. *lusus*.

“ Mr. P. D. Williams, of Lanarth, Cornwall, kindly sent me last September a curious variation of the Cornish heath, which he had known for ten years. The cuttings come quite true. It never really flowers, but young vegetative shoots are formed with tiny clustered leaves 1mm. long. The peculiarity may be caused by a mite or gall, but Dr. W. G. Smith, to whom I sent it, has not seen anything like it. Mr. E. W. Swanton has little doubt that a mite causes the abnormality in growth.” Druce, *B.E.C.*, 1919, p. 569. See also Worsdell, *Plant Teratology*, II., p. 124.

\*Var. **kevernensis**, Turrill, *Kew Bull.*, No. 5, 1922, pp. 175-6.

7. A single plant at Trelanvean Farm, St. Keverne, on the north-west corner of a rough moor, P. D. Williams. The finder took cuttings (which grew), and also layered the plant. In the following year the original plant and the layers were trodden into the ground by cattle and destroyed. Now growing in Mr. Williams' garden at Lanarth, St. Keverne, and at Kew Gardens. “ The new plant differs from the usual form of the species in the shape and colour of its corollas, characters which are not easy to make out in dried material. The corollas are broadly campanulate, with a wide open mouth, and well developed, more or less reflexed lobes. The bending back of the corolla lobes varies with the age of the flowers, but in mature, though not faded, examples, it is decidedly more marked than in typical *Erica vagans*. In colour the fresh corollas are a charming rose-pink with no tinge of purple. . . . Examples of reversion to the parent plant have been noticed at Kew by Dr. Hill and others.” Turrill, *loc. cit.*



- E. lusitanica*, Rudolph. Alien. Introduced. 3. Growing luxuriantly at Doublebois railway station, and flowering in February, 1920, Thurston.

## PLUMBAGINACEÆ.

***Limonium binervosum***, C. E. Salmon.

1. Rocky Valley near Tintagel, 1915, Thurston.
5. "St. Merryn" (*Flora*). Covering a stone wall, Constantine Bay, 1918, Thurston.

## PRIMULACEÆ.

***Primula vulgaris***, Huds. var. ***caulescens***, Koch.

5. Colan, Vigurs.

***P. veris***, Linn.

3. Orchard, Prideaux near St. Blazey, Medlin.
6. Orchard, Trewortha Hall, Veryan, 1913; a few plants outside Mylor churchyard, 1917, Thurston.
8. Cliff-path between Lelant and Carbis Bay, 1918, Pegler. Gwinear; Hawks Point near Carbis Bay; railway-line, Marazion, Rees.

***Lysimachia vulgaris***, Linn.

1. Mere Lake, Bude, 1915, Thurston.
3. A few plants at "Great Tree" between Hessenford and Looe, Rilstone. Ditch by side of road between Ashen Cross and Pelynt, 1915 et sq, Mrs. and H. M. M. Perrycoste. Very abundant in marsh above bridge over river, Lostwithiel, 1920. Thurston. St. Blazey, Vigurs.
7. "Used to grow at Poltesco, but disappeared of late years" (*Flora*). Abundant near the serpentine factory, Poltesco; Poldhu Valley, 1914, Thurston.

***Glaux maritima***, Linn.

3. Polkerris, Medlin. Gravelly beach, Pentewan, 1911, Davey.
4. Trebarwith Strand, 1915; Egloshayle Marsh, 1918, Thurston.
6. Mylor Creek, 1921, R. L. Smith and W. D. Watson.
7. "Lizard" (*Flora*). Mouth of streamlet, Caerthillian Valley, 1914, Thurston.
8. Lelant side of Hayle ferry, 1912, Thurston. Pra Sands, Tresidder.

**Anagallis arvensis**, Linn. var. **carnea** (Schrank).

5. East Pentire, Newquay, Vigurs. Kelsey Head, Cubert; Reen Sands, Perranporth, 1916, Thurston. Rose, Perranzabuloe, 1912, Rilstone.

\*Var. **purpurascens**.

3. Ballast-heap, Charlestown; flowers dark purple, like those of *Geranium phæum*, 1920, Tresidder. *B.E.C.*, 1920, p. 33.  
 3. Par Harbour, Davey, *R.I.C.*, 1911, p. 384. Penrice House, St. Austell, Tresidder. *B.E.C.*, 1920, p. 33.  
 Patches of plants with small pale pink flowers, with type and var. *carnea*, on Pentire Head, Newquay, 1922, Sylvester.

**A. fœmina**, Mill.

3. Par Harbour, Davey, *R.I.C.*, 1911, p. 384. Penrice House, St. Austell, Tresidder. Near Roche, 1916, Taylor.  
 5. Lambourne Hill, Perranzabuloe, Rilstone.  
 6. "Falmouth" (*Flora*). Fowl-run, Falmouth Docks, 1917, Thurston.  
 7. St. Keverne, 1911, P. D. Williams. Loe Pool, 1920, Hon. Mrs. George Northcote.

**Centunculus minimus**, Linn.

The first record (*Flora*) should read:—Moist places about Penzance, 1774, Herb. Lightfoot, in Banksian Herbarium, British Museum.

3. Bodelva, St. Blazey, Tresidder. Prideaux near St. Blazey; Starrick Moor, St. Austell, Medlin.

**Samolus Valerandi**, Linn.

3. Marsh by Trelawney river; marshy field on Hall Farm, Pelynt; Talland; Freshwater near Polperro, Mrs. and H. M. M. Perrycoste. Cliffs above Lantivet beach, Rilstone. Penpoll Creek, Fowey river, Medlin.  
 4. Near Grogley, between Wadebridge and Bodmin, Salisbury.  
 7. Clear Stream, Goorhilly Downs, near Bochym, 1911, Davey.  
 8. Nanjizal Bay near Land's End. Rev. H. E. Fox, *R.I.C.*, 1911, p. 384. Carwin Moor. Rees.

## OLEACEÆ.

**Fraxinus excelsior**, Linn.

8. A fine "Weeping Ash" (var. *pendula*, Aiton) at entrance to Love Lane, Penzance, 1922, Thurston. "The Weeping Ash is a variety propagated veg. from a single tree, which appeared as a sport at Wimpole in Cambridgeshire." Willis, *Flowering Plants and Ferns*, 4th ed., 1919, p. 278.

\***Ligustrum vulgare**, Linn. var. or forma **prostrata**.

7. Lizard, 1911, Ostenfeld, *New Phyt.*, 1911, p. 317; R.I.C., 1913, p. 229.

## APOCYNACEÆ.

**Vinca minor**, Linn.

Called Blue Betsy at Whitstone.

1. Whitstone, Tresidder.
3. Trenewan, 1917, Mrs. and H. M. M. Perrycoste.
4. Trevibban Barton, Tresidder.
5. "Newquay" (*Flora*). Delete the record. Mithian, Rilstone.
6. St. Stephen-in-Brannel, Medlin.

## GENTIANACEÆ.

**Microcala filiformis**, Hoffm. & Link.

3. Starrick Moor, St. Austell, Tresidder.
5. Quintrell Downs, Vigurs. Silverwell Moor, Rilstone.
7. Gew Graze Valley, Kynance, 1919, Miss Berenice d'Avigdor. Pradannack Downs, 1914, Thurston.

**Blackstonia perfoliata**, Huds.

3. Par Moor, Medlin. Roadside between Par and St. Austell, Tansley, R.I.C., 1911, p. 384. Polmear near Par; Crinnis; Charlestown, Tresidder.
4. Field at the back of Polzeath, St. Minver, Folllott Stokes, R.I.C., 1911, p. 384.
5. Constantine Sands, 1918, Lamb.

**Centaurium pulchellum**, Druce.

5. Trevemper Bridge; Quintrell Downs; Penhallow Moor, Newlyn East, Vigurs. "North Cliffs" (*Flora*). Godrevy, 1858, Herb. Penzance Museum.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 384. "Kynance, 1846" (*Flora*). Above Kynance Cove, Miss M. Cobbe, *B.E.C.*, 1916, p. 495.

**C. capitatum**, Rendle & Britten.

7. "Lizard" (*Flora*). Above Kynance Cove, 1914, Miss M. Cobbe.

**Gentiana Amarella**, Linn.

8. Patch on Lelant golf links, 1912, Thurston.

**G. lingulata**, C. A. Agardh. var. **præcox**, Towns.

8. "Budnick" (*Flora*). Heath land, Perranporth, Robinson, *B.E.C.*, 1919, p. 829.

**G. baltica**, Murb.

1. High Cliff, Folllott Stokes, *R.I.C.*, 1911, p. 384.
3. Near Cardinham, May. *ibid.* Two miles out of Bodmin on the racecourse, Miss B. Shaw, *ibid.*
5. Near the "Lost Church," Perranzabuloe, Davey. Rope-walk Farm, St. Agnes; Goonbell near St. Agnes, Rilstone.

**Menyanthes trifoliata**, Linn.

3. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 384.
5. Treloggan, St. Columb Minor; near Crantock Plains; near Fiddler's Green, Newlyn East, Vigurs. Truthan Bottoms, St. Allen, Tresidder.
6. Trelassick, Ladock, Tresidder. Gloweth, Kenwyn, 1911, Foott.
8. "St. Ives" (*Flora*). Halsetown near St. Ives, 1913, Thurston. Carwin Moor, Hayle; Hele Ager Moor, Rees.

**POLEMONIACEÆ.****Polemonium cæruleum**, Linn.

3. Between Duloe and Tredinnick, 1910, Mrs. and H. M. M. Perrycoste.



## HYDROPHYLLACEÆ.

- \**Phacelia ciliata*, Benth. Alien. North West America. 3. Par Harbour, Rilstone & Thurston, *B.E.C.*, 1919, p. 667.

## BORAGINACEÆ.

In a revision of the genus *Symphytum* by Mr. C. Bucknall (*Journ. Linn. Soc., Vol. XLI., 1913*), var. *patens* (Sibth) is excluded, as this name has often been given not only to the purple-flowered *S. officinale*, but also to *S. peregrinum* and its hybrids, and even to *S. asperum*, Lepech (*asperrimum*, Don). The records for var. *patens* in the *Flora* should probably all go under either sub-var. *purpureum* or *S. peregrinum*. Vigurs.

\**S. officinale*, Linn, sub-var. **purpureum**, Pers.

1. Field, Boscastle; Rocky Valley near Tintagel, 1915, Thurston.
4. Near Sportsman's Arms, Camelford, 1915, Thurston.
6. Ponsanooth, 1905, Davey & Vigurs.

\**S. peregrinum*, Ledeb. Alien. Introduced as a fodder plant.

1. Field, Boscastle, 1915, Thurston.
3. Lane from West Looe to Hannafore, 1914, Adams. Patch in lane, Lerryn, 1920, Thurston.
4. St. Kew, 1915, Thurston.
5. Newquay, 1913, Vigurs. *B.E.C.*, 1913, p. 390.
6. Gerrans, 1900, Davey (as *S. officinale*). Near Veryan; between Veryan and Portscatho, 1913, Thurston. Between Truro and Malpas, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 117. Perran-ar-worthal. 1914, Davey & Vigurs.
7. Helston, 1899, Hume. Between Helston and the Lizard, Vigurs.

\**S. orientale*. Linn. Alien. Garden origin. 5. Dennis lane, Padstow. 1918. Thurston. 6. Wall near hotel, Ruan Lanihorne, 1913, Thurston, *B.E.C.*, 1913, p. 390.

\**S. caucasicum*, Bieb. Alien. Garden origin. 6. Mill cottage, waste-ground, and ditch near hotel. Ruan Lanihorne, *B.E.C.*, 1913, p. 390; waste-ground, Tresillian, 1913, Thurston. 7. Mawgan; Lizard road between Helston and Penhale; wall, Loe Valley, 1914, Thurston.

**Borago officinalis**, Linn.

3. Par, 1910-11, Davey. Charlestown, Tresidder.
4. Little Petherick, 1918, Thurston.
5. Abundant in a large field, St. Columb Porth, 1922, Thurston.
6. Wood near Veryan, 1913, Thurston.
7. Housel Bay, abundant, 1914, Thurston.

**Anchusa officinalis**, Linn.

3. "Langreek ; Lerryn, T.Q. Couch" (*Flora*). Mr. Perry-coste writes :—"Surely Couch's record for Langreek should be referred to *A. sempervirens*, which grows there and elsewhere in Polperro. Is his Lerryn record correct? *A. sempervirens* grows there too."
  8. Hayle Towans (sand-dunes), Rilstone, B.E.C., 1918, p. 388.
- \**A. procera*, Bess. ex Link enum. Hort. Berol (*ochroleuca*, Bieb). Alien. 5. Sheltered spot between the sandhills, Phillack, Rees.

- \**A. italica*, Retz. Alien. 5. One plant as garden escape on waste-heap, Newquay, 1912, Vigurs, *R.I.C*, 1913, p. 226. Phillack sandhills, 1921, Thurston.

The origin of the *Anchusas*, which, together with *Salvia verticillata* and *sylvestris*, *Amsinckia intermedia*, and *Ajuga pyramidalis*, constitute a conspicuous feature of the Phillack sand-dunes near the Explosives Factory, is unknown, Thurston.

**Lycopsis arvensis**, Linn

1. Valency Valley, Boscastle, 1915, Thurston.
4. "St. Minver" (*Flora*). Rock sandhills, 1915, Thurston.
5. Hayle Towans (sand-dunes), Rees.
6. Near Veryan, 1913, Thurston.
7. Cliff, Mullion Cove, 1914, Thurston.
8. Sennen Green, Rees.

**Myosotis cespitosa**, Schultz.

5. Damp hollows, Perranporth sandhills; Bolingey Moor, Perranzabuloe, Rilstone.
6. Stream, Tregoney; near Ruan Laniorne, 1913, Thurston.

**M. palustris**, Hill.

2. St. Cleer, 1920, Harvey.
5. Bolingey Moor, 1916, Thurston. Carnkief, Perranzabuloe, Rilstone.
8. Lezingey Bottoms near Penzance, 1913, Rees.

**M. repens**, G. & D. Don.

5. Porth, St. Columb Minor; Penhallow Moor, Newlyn East, Vigurs.

**M. collina**, Hoffm.

4. Near Grogley between Wadebridge and Bodmin, Salisbury.
5. Reen Sands, Perranporth, 1916, Thurston.

**Lithospermum officinale**, Linn.

4. Portquin, Rev. H. E. Fox, *R.I.C.*, 1911, p. 384.
6. Near Marlborough, Falmouth, 1917, Miss A. B. Cobbe.

**L. arvense**, Linn.

3. Looe dust-heaps, 1916-17; one plant at Pleaton, Polperro, not seen since, Mrs. and H. M. M. Perrycoste. Par Harbour, 1917, Miss M. Cobbe. Charlestown, Tresidder.
5. Railway-bank, Perranwell, Perranzabuloe, Tresidder.

*Amsinckia angustifolia*, Lehm. 3. Par and Par Harbour, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 117.

*A. intermedia*. Fischer & Meyer (*A. lycopsioides*, A. Gray in parte, non Lehmann). 3. Liskeard railway-siding, 1909, Clarke. 5. Hayle Towans (sand-dunes), 1912, Hockin. Phillack sand-hills, 1915, Rees. 6. Falmouth Docks, 1909. Davey.

**Echium vulgare**, Linn.

2. Smeaton, Pillaton, Hawk, *R.I.C.*, 1911, p. 384.
3. Charlestown, Tresidder.
5. Abundant on Hayle Towans (sand-dunes), Rees.
6. Helston Water, Kea, Davey, *R.I.C.*, 1911, p. 384.

**E. plantagineum**, Linn.

1. Casual on waste-ground, Hendra, Launceston. 1920. Wise.
8. "Abundant near St. Just in corn and potato fields. Ralfs" (*Flora*). Luxuriant in a field on Nanjulian farm, St. Just, 1921. Rees.

**Omphalodes verna**, Moench.

3. Mr. Perrycoste writes:—Our record (*Flora*) should have included found by Dr. Adams.

*Echinosperrum Lappula*, Lehm. 3. "Par" (*Flora*). Par and Par Harbour. 1917, Miss A. B. Cobbe. 5. Goonhavern, 1911, Rilstone. Cultivated field, Phillack, 1915, Rees. 7. Potato patch, Lanarth House, St. Keverne, Miss Williams, *B.E.C.*, 1919, p. 667.

**CONVOLVULACEÆ.**\***Calystegia sepium**, Br. (*Volulus sepium*, Medic), var. **coloratus**, Lange.

7. Cadgwith, Miss Todd, *B.E.C.*, 1920, p. 136.

**C. Soldanella**, Br.

3. Crinnis, Medlin.  
4. Harlyn Bay, Miss C. E. Larter, *R.I.C.*, 1911, p. 384.  
6. Pendower beach, Gerrans Bay, 1913, Thurston.  
8. Lelant, Rees

\**C. inflata* (Desf). Alien. Garden origin. 8. Big patch in roadside hedge between Trengwainton and Madron, 1921, Thurston.

**Cuscuta Epithymum**, Murr.

Known as Devil's Saffron in one or two places in West Cornwall, Davey.

2. Hingston Down, Hawk, *R.I.C.*, 1911, p. 384.  
3. Carthew, Tresidder.  
5. Budnick near Perranporth, Tresidder.  
6. Carslake, St. Austell, Medlin.  
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 384. Housel Bay, 1914, Thurston.

**C. Trifolii**, Bab.

5. Harlyn Bay, 1911. Miss F. Spettigue. Reen Farm, Perranzabuloe. *R.I.C.*, 1911, p. 384; Hendravossan; Lanteague. Tresidder.  
7. Kennack Sands, 1916, Tresidder.



\**C. suaveolens*, Seringe (*C. racemosa*, Brand. vix Mart. See Heinsley, *Journ. Bot.*, 1908, p. 241, t. 493, fig. A). Introduced into Europe from Chili with seed of lucerne, and found in England, on several occasions since 1851, growing on various common native plants. 3. Hedge bordering field under turnips and potatoes 1920, corn, 1921, Trenavissick Farm, Par, 1921, Medlin. Heliotrope scented, growing on many of the common hedge plants, e.g., *Lynchnis dioica*, *Galium Mollugo*, *Teucrium Scorodonia*, and *Urtica dioica*.

## SOLANACEÆ.

### *Solanum Dulcamara*, Linn. var. *albiflora*.

7. Helston road near the Lizard, Miss M. Cobbe, *B.E.C.*, 1916, p. 495.

### Var. *marinum*, Bab.

7. Kynance, 1911, Davey.

### *S. nigrum*, Linn.

3. Pridmouth, Medlin. Charlestown, Tresidder.

5. Mount, Perranzabuloe, Tresidder.

8. Waste-ground, St. Ives, 1912, Thurston. Pentreath Farm near Pra Sands, 1911; Long Rock, Davey, *R.I.C.*, 1911, p. 384. Near St. Buryan, Rev. H. E. Fox, *ibid*.

*S. rostratum*, Dunal. Par, 1902, Hume (*Flora*). Patch at Polmear end of Par Sands, 1920, Pease; Foggitt.

*S. aviculare*, Forst (*S. pinnatifidum*, L'Hérit). Kangaroo Apple. Alien. 8. Sandy beach, Tresco, Scilly, 1920, Hosking.

### *Lycium chinense*, Mill.

1. Morwenstow. Tresidder. Bude, 1911, Harvey. Hedge near Trevalga, 1915, Thurston.

3. Old Wall, Lostwithiel, 1920, Thurston.

5. Single small plant. Dennis Cove. Padstow. 1918. Thurston. Perranporth. 1911, Davey. Rees Farm. Perranzabuloe. Tresidder. Phillack, 1913. Miss A. B. Cobbe.

8. Waste-ground near Hayle Causeway, 1921, Thurston & Rilstone. Between Long Rock and Penzance by railway, 1911, Davey. Hedge, Long Rock. 1914, Miss Waterer.

**Datura Stramonium**, Linn.

3. Looe dust-heaps, 1917, Mrs. and H. M. M. Perrycoste.
5. Mount, Perranzabuloe, Tresidder.
8. Waste-ground between Long Rock and Penzance, 1911, Davey.

**Hyoscyamus niger**, Linn.

1. Mouth of stream, Millook, 1915, Thurston.
3. Par, 1911, Druce, *Journ. Bot.*, 1911, p. 303. Charlestown, Tresidder.
4. Trevisquite Manor, St. Mabyn, Tresidder.
5. Kelsey Head, Cubert, Vigurs. Gwithian Towns (sand-dunes), 1911, Hosking.
6. Near Gwendra Farm, Veryan, 1913, Thurston. Perran-ar-worthal; Penryn, Davey, *R.I.C.*, 1911, p. 384. Hicks Mill, Gwennap, 1920, Harvey.

**SCROPHULARIACEÆ.****Verbascum Thapsus**, Linn.

1. Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 384.
3. Charlestown, Tresidder.
5. Porth Towan, Davey, *loc. cit.*
7. Coverack, Rev. H. E. Fox, *loc. cit.*

\*Hybrid. **V. Lychnitis** × **nigrum**.

3. One plant at Par, Davey, *R.I.C.*, 1911, p. 384.

**V. nigrum**, Linn.

3. Charlestown, Tresidder. Pentewan, plentiful, 1911, Davey.
5. Orchard, Callestick, 1916, Bunney. Porth Towan, Davey, *R.I.C.*, 1911, p. 385. Near poultry farm, Hayle Towans (sand-dunes), Rees.

Var. **tomentosum**, Bab. (*V. nigrum* × *Thapsus* in *Flora*).

3. "Seaton, 1873 and 1876" (*Flora*). Still there in 1919, Thurston.

**V. virgatum**, Stokes.

3. Sandplace near Looe, Rilstone.
5. "Crantock" (*Flora*). Delete the record. "Gwithian, Ralfs" (*Flora*). Phillack Towans (sand-dunes), Rees.

\***V. pulverulentum**, Vill. Casual.

3. Ballast-heap, Charlestown, 1913-18, Tresidder.

\*Hybrid. **V. pulverulentum** × **nigrum**.

3. Ballast-heap, Charlestown, 1913-18, Tresidder.

**V. Blattaria**, Linn.

2. Siding east of St. Germans station, with light flowers, abundant, 1911, Davey.

4. Wadebridge, 1911, Smith-Pearse, *R.I.C.*, 1911, p. 385.

5. N.E. of St. Columb Major, Mrs. Wedgwood, *B.E.C.*, 1920, p. 137. "Goonhavern" (*Flora*). This refers to *Celsia cretica*, Tresidder.

6. Tregoney, 1911, Mrs. Hawking.

\**V. phæniceum*, Linn. Alien. Garden origin. 3. Par Harbour, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 118.

*Celsia cretica*, Linn. 3. Par Harbour, 1912, Vigurs. 5. "Perranzabuloe" (*Flora*). Hendracroft Farm, Perranzabuloe, Tresidder.

**Linaria spuria**, Mill.

3. Regularly in a field at Talland; casual at Polperro, Mrs. and H. M. M. Perrycoste. Par Harbour, Medlin.

5. Cubert village; Reen Farm, Perranzabuloe, Tresidder.

6. Churchtown Farm, Perran-ar-worthal, Davey, *R.I.C.*, 1911; p. 385.

**L. supina**, Desf.

1. Railway station, Launceston. Shown to E. Thurston by W. Wise, 1915.

3. Par Sands. with peloric flowers, 1919, Haynes, *B.E.C.*, 1919, p. 570.

**L. repens**, Mill.

2. Established in a roadside hedge ½ mile E. of South Petherwin village, Smith-Pearse.

3. Liskeard railway station, 1919, Harvey. "Par" (*Flora*). Established at the harbour, and railway embankment at east end of the sands, Thurston. Ballast-heap, Charlestown; between Bugle and Roche, Tresidder. Near Roche, 1916, Taylor.

Hybrid. **L. repens** × **vulgaris**.

3. Lane, Charlestown, 1916, Tresidder & Rilstone. Between Bugle and Roche, Tresidder.

**L. vulgaris**, Mill.

3. Plants with some of the flowers with five spurs upon the corolla and a tubular mouth (*forma Peloria*) at Par Harbour, 1920, Medlin.

**L. minor**, Desf.

3. Polkieves and Kilmanorth, Talland, 1911; field above Head o' Ditch, Polperro, 1914, Mrs. and H. M. M. Perrycoste. In railway ballast, Lostwithiel, 1920, Thurston.
4. Railway near Delabole Station, 1918, Harvey.
5. Mawgan Porth, 1901, Vigurs. Lambourne, and field near Carnkief pond, Perranzabuloe, 1916, Rilstone.

\**L. Dalmatica*, Mill. Alien. 2. Near St. Germans, Daltry, *B.E.C.*, 1915, p. 204. 3. Par Sands, Daltry. "The Cornish plant agrees with the description of var. *macedonica* (Griseb)." *Loc. cit.*

**Antirrhinum Orontium**, Linn.

2. Pillaton, Hawk, *R.I.C.*, 1911, p. 385.
3. Roadside, St. Martin, 1918, Thurston. Charlestown, Tresidder.
4. Rock and Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 385.
6. Field near Grampound Road Station, 1922, Borlase.
7. Relowas. St. Martin-in-Meneage, Tresidder. Field, Pradannack Downs, 1914, Thurston.
8. Field above Marazion Station, 1913, Miss M. Cobbe. Cornfields about Penzance, Rees.

\***Scrophularia aquatica**, Linn. sub-var. **flavo-viridis**, Thurston.

3. Waste-ground, West Looe, with pale yellow-green flowers, 1918, Thurston. *B.E.C.*, 1919, p. 570. Swamp, Talland, 1919, Mrs. and H. M. M. Perrycoste.

\***S. nodosa**, Linn. var. **Bobartii**, Pryor.

1. Near Bude, 1913, Hon. Mrs. Baring, *B.E.C.*, 1913, p. 391.



**S. Scorodonia**, Linn.

2. About midway between Penlee Point and Rame Head, 1919, Foggitt.
3. "Yearl's Coombe, Couch" (*Flora*). Not seen there by the Perrycostes. Charlestown, Tresidder.
5. Quarry, Perranporth Sandhills, 1911, Davey.
6. Trethewel, Kea, Tresidder.
8. Between Tredavoe and Tereife, near Penzance, 1913, Miss M. Cobbe. Boskenwyn near Penzance, 1913, Rees.

\*Var. **viridiflora**, Druce.

3. Pure green flowers and paler foliage, railway embankment near Par Sands, growing with the type, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 39.

**S. vernalis**, Linn.

6. "A very luxuriant plant found, in May, 1908, by Mrs. Little in a lane near Falmouth" (*Flora*). Several plants in a field adjoining the lane, 1910, Mrs. Little, *R.I.C.*, 1911, p. 385. About two score of plants in lane off Melville road, Falmouth, 1917, Miss A. B. Cobbe.

**Mimulus Langsdorffii**, Donn.

1. By mill-wheel, Boscastle, 1915, Thurston.
2. St. Cleer, 1920, Harvey.
3. Stream, Boconnoc Park, 1920, Thurston.
4. Trearne Farm near Devil's Jump, 1915, Thurston.
7. Chypons near Mullion, 1914, Thurston.
8. Marazion beach; Morvah, Rees.

**M. moschatus**, Dougl.

3. Starrick Moor, St. Austell, Medlin.
6. Between Sticking Bridge and Perranwharf; damp meadow under College Viaduct. Penryn, 1911, Davey. Brickhill Wood, Mylor, 1921, R. L. Smith and W. D. Watson.

**Limosella aquatica**, Linn.

8. "Chy-an-hal Moor," 1851 (*Flora*). In *Castalia* pond, Chy-an-hal, 1921, Thurston.

**Sibthorpia europæa**, Linn.

2. Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 385.

3. Between Upton and Henwood, 1920, Harvey. Lanhydrock, Salisbury. Prideaux near St. Blazey, Medlin. Trenarren; Pentewan Valley, Tresidder.
4. Near Helland, Salisbury.
6. Nanpean, Medlin. Lane near Port Holland, 1913, Thurston. St. Just, Roseland, 1917, Miss M. Cobbe. Arallas, Ladock, Vigurs.
7. Calvadnack, Wendron; Bolaskan, Crowan, Tresidder, *R.I.C.*, 1911, p. 385.
8. Ludgvan; Trereife near Penzance, 1913, Miss M. Cobbe. Hedge-banks round Chy-an-Hal Moor: Bone Valley; brick lane, and hedges between Buryas Bridge and Drift Hill near Penzance, Rees. About a mile from Penzance on the St. Buryan road, Rev. H. E. Fox, *R.I.C.*, 1911, p. 385.

This plant is much more frequently met with on killas (clay slate) than on granite soil, Davey, *R.I.C.*, 1911, p. 385.

\**Digitalis lutea*, Linn. Alien. Garden origin. 3. Looe dust-heaps, 1919, Thurston.

### **Veronica agrestis**, Linn.

Concerning two forms of this plant Mr. Rilstone writes:—"One which, as far as my experience goes, is of rare occurrence, has the pale flowers, oval sepals gland-fringed at the base, and short style of *V. agrestis*, but the numerous jointed hairs on the stem and pedicels are not 'mostly gland-tipped' as Syme says is the case with typical *V. agrestis*. The other—more frequent but by no means common plant—presents difficulty chiefly in the capsule being rather thickly clothed with short straight or curved glandular hairs, with longer glandular hairs intermixed." *Journ. Bot.*, 1918, p. 114.

### \***V. triphyllos**, Linn.

3. Ballast-heap, Charlestown, Mrs. Wedgwood and Tresidder, *B.E.C.*, 1920, p. 138.

*V. peregrina*, Linn. 6. Abundant in the grounds, Enys, Mylor, 1917, Mrs. and H. M. M. Perrycoste. On the Fal, Green, *B.E.C.*, 1917, p. 119.

### **V. montana**, Linn.

1. Stream, Millook, 1915, Thurston.

2. Quethiock, Hawk, *R.I.C.*, 1911, p. 385.
3. Prideaux near St. Blazey; Starrick Moor, St. Austell, Medlin.
6. Arallas, Ladock, 1915, Vigurs. Brickhill Wood, Mylor, 1921, R. L. Smith and W. D. Watson. Trelew near Mylor, 1917, Miss M. Cobbe. Stithians, Tresidder.
7. Gweek Wood; Mullion, 1914, Miss M. Cobbe. Near Crowan Vicarage, Tresidder.
8. Rosehill near Penzance, Rees.

**V. scutellata**, Linn.

1. Goscott Moor, Week St. Mary, Tresidder.
3. Trenean Marsh near Hessenford; Tredudwell between Polperro and Fowey, Mrs. and H. M. M. Perrycoste. Starrick Moor, St. Austell, Tresidder.
5. Honeycomb, St. Allen, 1916; Pasty Pool near Zelah, Tresidder.
6. Gilly Bottoms near road from Gwennap to Stithians, 1921, R. L. Smith and W. D. Watson.
7. Pond near Penhale, Lizard road, 1914, Thurston.

**V. Anagallis-aquatica**, Linn.

3. Charlestown, one plant, 1914, Tresidder.

\**V. angustifolia*, A. Rich. Alien. "Corn." Druce, *List of British Plants, 1908. Additions.*

\**V. speciosa*, R. Cunn. Alien. 5. Cultivated extensively at Newquay (and elsewhere), where it produces seedlings freely, Vigurs.

\**V. salicifolia*, Forst. Alien. 3. Growing on bridge over the river, Lostwithiel, first noticed in 1913, Vigurs.

**Euphrasia Rostkoviana**, Hayne.

The first record (*Flora*) should read:—Cornwall, Cuna Parell (sic), 1883, A. Ley (J. Britten comm) Lizard (1852). J. Woods Herb. Townsend, *Monograph, 1897.*

2. Kit Hill, 1918, Rilstone.

3. Slopes of Caradon Hill, Rilstone. "A form, like the preceding, with showy violet-purple flowers, much resembling *E. Vigursii*, Davey, but with the long flexuous glandular hairs of *Rostkoviana*. It occurs sparingly with the white-flowered form—the latter plentiful." *B.E.C.*, 1920, p. 243. Cheese-wring Downs, small flowered, Rilstone. "This appears to be a slender form of *E. Rostkoviana*, small in all its parts, and with relatively short, glandular hairs. It may be regarded as a connecting link between the form collected by Mr. Barton at Myrtleberry Cleeve, N. Devon, and *E. Vigursii*." Pugsley, *B.E.C.*, 1920, p. 243.
6. Carnmenellis, 1920, Harvey.
7. Lizard, *loc. cit.* Goonhilly Downs, 1911, Davey.

\**Forma æstivalis.*

2. On the Common, Pensilva. Flowers deep purple red with dark carmine markings, 1919, H. S. Thompson. Possibly the same as Rilstone's Kit Hill and Caradon plants.

**E. Vigursii**, Davey.

5. Near Shepherd's, Druce, 1908, *B.E.C.*, 1908, p. 392. "Several places near Goonhavern" (*Flora*). Downs at Droskyn Point, Perranporth; Polgoda Down, 1916, Thurston. Ventongimps, 1918, Rilstone.
  7. Kynance Downs, 1916, Mrs. Wedgwood. Bucknall, British Euphrasiæ, *Supp. Journ. Bot.*, 1917, p. 16.
- This species has also been found in Devon and at Cork.

**E. brevipila**, Burn. & Grem.

1. "Minster, Rogers" (*Flora*). Hayfield, Boscastle, 1915, Thurston.
4. In thin hay, Bolventor, 1918, Rilstone.
5. Harlyn Bay, Miss C. E. Larter, *R.I.C.*, 1911, p. 385. Payne's Well, Wheal Frances; Carnkief, Perranzabuloe, 1918, Rilstone.

\***E. Kernerii**, Wettst.

3. Grassy bank, Minions village, 1919; Helman Tor Moor, 1920, Rilstone and Thurston. Seaton Valley, 1919, Lowther, Rilstone and Thurston.
5. Goonhavern Moor, 1920, Rilstone. "I believe it is *E. Kernerii*," C. Bucknall. Plants collected by Mr. Rilstone in boggy ground, Wheal Frances, Perranporth, were referred to this species by several authorities, *B.E.C.*, 1918, p. 513.



**E. borealis**, Towns.

5. Penhallow Moor, Newlyn East, Vigurs, *B.E.C.*, 1910, p. 580.
6. Port Holland, 1913, Thurston.

**\*E. strica**, Host.

5. Roadside above Perranwell towards Goonhavern, 1918; Mill Down, Ventongimps, 1919, Rilstone.
- In *Journ. Bot.*, 1922, p. 2, Mr. Pugsley notes that he can find no British specimen, which seems to him really to agree with undoubted continental exsiccata of *E. stricta*, and he can only conclude that all of our plants are referable to a polymorphic *E. nemorosa*, or, more rarely, to *E. brevipila*, *E. borealis*, or *E. Kernerii*. In British Euphrasiæ, *Supp. Journ. Bot.*, 1917, Mr. Bucknall considers that many gatherings named *E. stricta* are *nemorosa*, but admits *stricta* from four English Counties.

**\*E. nemorosa**, H. Mart, var. **ciliata**, Drabble.

6. Truro, etc., *Journ. Bot.*, 1916, p. 75; *B.E.C.*, 1916, p. 423.

**E. gracilis**, Fr.

6. Trenerry Wood, St. Allen, Tresidder.

**E. occidentalis**, Wettst.

4. Portquin. Recorded by C. Bucknall, British Euphrasiæ, *Supp. Journ. Bot.*, 1917, p. 9.
5. Stepper Point, Padstow, 1920, Smith-Pearse. Harlyn Bay, Miss C. E. Larter, *R.I.C.*, 1911, p. 385. Plentiful along the coast east and west of Newquay, Vigurs. Short turf in sandy ground, Holywell, 1918, Rilstone, *B.E.C.*, 1918, p. 516.
8. Lelant golf-links, 1912, Thurston.

**\*Var. præcox**, Bucknall.

3. Slopes above cliff, Polperro, 1920, Rilstone, *B.E.C.*, 1920, p. 240.
4. On the coast, Polzeath, White. Spire Bank, Rock, St. Minver. Recorded by C. Bucknall, *loc. cit.*

**\*E. confusa**, Pugsley (*Journ. Bot.*, 1919, p. 172).

3. St. Cleer Downs, 1920, Rilstone. Mossy bank, Marsh near Helman Tor, 1920, Rilstone and Thurston. Mr. Bucknall writes:—"I cannot see any difference between this and a large gathering sent me from Simonsbath (Somerset) by the

late Mr. Marshall, except that the flowers appear to be less yellow. I quite agree with Pugsley that such copiously branched plants cannot go to *E. minima*, and think we should be quite safe in naming these *E. confusa*, Pugsley." See also note in *B.E.C.*, 1920, p. 241, where the claims of the plant to be *E. confusa* or *E. minima* are dealt with. In *Journ. Bot.*, 1922, p. 2, Mr. Pugsley describes the plants from the above localities, and other places in England, as "*E. confusa*, b. *albida*, forma nova. Planta corollis albidis nec luteis, quam typus interdum robustior."

**Bartsia viscosa**, Linn.

3. Between Port Looe near West Looe and Hendersick, Miss C. Grigg. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 385.
6. Swamp west of Polgrain near Port Holland; near Veryan, 1913, Thurston. Mylor quarry, 1921, R. L. Smith and W. D. Watson.
7. Coverack, 1910, Rev. H. E. Fox, *B.E.C.*, 1910, p. 580.

**Pedicularis palustris**, Linn.

3. Yearl's Combe, Trelawney river, Mrs. and H. M. M. Perrycoste. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 385.

**Rhinanthus stenophyllus**, Schur.

3. Par, Davey, *R.I.C.*, 1911, p. 385.
5. Perranporth, 1911, Davey.
6. Perran-ar-Worthal, *loc. cit.*; Perranwharf, 1909; Falmouth, 1911, Davey.
7. Penhale, Miss C. E. Larter, *loc. cit.*
8. Sandy, grassy coast, Marazion, Marshall, *Journ. Bot.*, 1918, p. 187.

**Melampyrum pratense**, Linn.

2. Near Clapper Bridge; Quethiock, Hawk, *R.I.C.*, 1911, p. 385.
3. Valley below Cheesewring, 1920, Harvey.
4. Hustyn Wood, St. Breock, 1915, Thurston.
5. Illogan Wood, Tresidder.
6. Lamorran Wood, 1913. Thurston. Arallas, Ladock, Tresidder. "Greatwood," Mylor, 1921, R. L. Smith and W. D. Watson.
8. Kirton Wood near Townshend, Hayle, Hosking.

\*Forma **platyphyllum**, Beauv.

1. Millook, a large flowered form, Druce, *B.E.C.*, 1917, p. 46, where Beauverd's revision of the species is dealt with.

## OROBANCHACEÆ.

\**Orobanche reticulata*, Wallr. Alien. Western Mediterranean.

6. Fowl-run, Falmouth Docks, 1917, one plant parasitic on *Dipsacus sylvestris*, Thurston. The first record of this plant as a British species seems to have been a plant found parasitic on *Cirsium eriophorum* near Leeds in 1907, *B.E.C.*, 1908, p. 335.

**O. major**, Linn.

3. Portlooe near West Looe, Miss C. Grigg. Polruan, Rilstone.

**O. rubra**, Sm.

The first record (*Flora*) should read:—On authority of Miss Rodd in Loudon, *Gard. Mag.*, 1835, 694-5, in report of meeting of Royal Hort. Soc. Cornwall.

6. Very abundant on roadside between Port Holland East and West, 1913, Thurston.
7. Poltesco, 1913, Vigurs, *B.E.C.*, 1913, p. 488. Half a mile west of Lizard Lighthouse, 1912, Miss A. M. Geldart, *W.E.C.*, 1912-13, p. 403. Single plant on cliff, Mullion Cove, 1914, Thurston. Cliff, Gunwalloe, 1916, Tresidder.

**O. Hederæ**, Duby.

3. Lantivet, Mrs. and H. M. M. Perrycoste. Polkerris, 1920, Medlin.
8. Prussia Cove, Tresidder.

**O. minor**, Sm.

3. Looe, Mrs. and H. M. M. Perrycoste. Plentiful in a field near Pelynt, 1917, Rilstone.
5. Field near Obelisk Hill, Padstow, 1918, Lock. Two plants on wall opposite Barrow Field, Newquay. 1922, Malim. Abundant on slope above Tolcarne Sands, Newquay, on *Daucus*, 1922, Lady Bourne. Hendravossan and Reen Farm. Perranzabuloe, Tresidder, *R.I.C.*, 1911, p. 385. Redruth, 1912, H. Williams.
8. Hawks Point near Carbis Bay; Bone Valley near Hea Moor, Penzance, 1912, Rees.



**O. amethystea**, Thuill.

8. St. Mary's, Scilly, 1922, Downes.

**LENTIBULARIACEÆ.****Utricularia vulgaris**, Linn.

6. Goss Moor, Tresidder, *R.I.C.*, 1911, p. 386.

**U. major**, Schmidel.

5. Carnkief pond, Perranzabuloe, 1921, Tresidder.

**U. minor**, Linn.

3. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 386.

**Pinguicula lusitanica**, Linn.

The first record (*Flora*) should read:—Ray, *Cat. Plant. Ang.*, 1670.

1. Badgall Down, Laneast, Reid, *R.I.C.*, 1911, p. 386.
3. Trenean Marsh, Hessenford, Miss Boucher.
4. Marsh near Jubilee Rock, Blisland, 1908, Harvey.
5. Wheal Butson, St. Agnes, 1911, Rilstone.
6. Nanpean; St. Dennis, Medlin. Penwethers near Truro, 1911, Foott.
7. Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 386. East Kennack Valley, 1914, Miss M. Cobbe. Pradannack Downs, 1914, Thurston.
8. Lezingey Moor, and Rosemergy near Penzance, Rees.

**VERBENACEÆ.**

- \**Verbena bracteata*, Michx. Alien. 3. Bodmin Road Station, 1918, Harvey.

**LABIATÆ.****Mentha rotundifolia**, Huds.

3. Charlestown; Treverbyn, Tresidder.
5. Ellenglaze, Cubert, Vigurs.
6. Near Pendower beach, Gerrans Bay; Ruan Laniorne, 1913, Thurston.



Hybrid. **M. rotundifolia** × **spicata** (*crispa*, Hook).

1. Boscastle, 1915, Thurston.
4. Rock Sandhills, 1911, Boyden.
6. Falmouth; Budock, 1911, Barton.

**M. alopecuroides**, Hull.

4. Portquin, Rev. H. E. Fox, *R.I.C.*, 1911, p. 386.
8. Marshy spot by roadside near Trewoof, 1911, Davey.

**M. longifolia**, Huds.

3. Lansallos beach, Mrs. and H. M. M. Perrycoste.
5. Penhallow, Newlyn East; Penwortha, Perranzabuloe, 1912, Rilstone. Stream, Holywell Bay, 1915, Thurston. Perranwell, Perranzabuloe, Tresidder.
6. "Greensplat and Hicks Mill, Gwennap" (*Flora*). Delete the record. Near Boscawen Park, Truro, 1911, Rilstone.
8. Lamorna Valley, Rev. H. E. Fox, *R.I.C.*, 1911, p. 386.

Var. **mollissima** (Borkh).

1. Rocky Valley near Tintagel, 1915, Thurston.

**M. spicata**, Linn.

1. Rocky Valley near Tintagel, 1915, Thurston.
5. Perranporth, 1916, Thurston. Lambourne, Perranzabuloe, 1912, Rilstone. Skinner's Bottom near Mount Hawke, Tresidder.

**M. piperita**, Linn. var. **officinalis** (Hull).

5. Menagissey near Mount Hawke, 1911, Barton. Lane at Harmony Cot near Perranporth, 1916, Thurston.
6. Veryan, Miss Farrar, *R.I.C.*, 1911, p. 386. Frogpool, Gwennap, 1911, Davey.

Var. **vulgaris** (Sole).

3. Trethake Mill near Fowey, Rilstone.

Hybrid. **M. aquatica** × **arvensis** (*sativa*, Linn).

Var. **rivalis**, Wats.

1. Valency Valley, Boscastle, 1915, Thurston.
5. Penhallow, Newlyn East, 1912, Rilstone. Tresean, Cubert, 1916, Thurston.
6. Veryan, Miss Farrar, *R.I.C.*, 1911, p. 386.

Var. **paludosa** (Sole).

6. Perran-ar-worthal, 1917, Davey.

Var. **elata**, Host.

7. Penrose, Helston, 1911, Druce, *New Phyt.*, 1911, p. 318, *R.I.C.*, 1913, p. 229.

Var. **plicata** (Opiz).

7. Penrose, Helston, 1911, Druce, *loc. cit.*

Hybrid. **M. aquatica** × **longifolia** (*pubescens*, Willd).

Var. **palustris** (Sole).

5. Roadside ditch, St. Columb Minor, Bickham, *B.E.C.*, 1908, p. 395.  
6. Chyvogue, Perran-ar-worthal, 1911, Davey, *W.E.C.*, 1911-12, p. 353.

**M. rubra**, Sm.

2. Smeaton; Higher Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 386.  
5. For "Newquay" (*Flora*) read Fair Park, St. Columb Minor. Wheal Friendly, St. Agnes, Radcliffe. St. Agnes, Rilstone.

\*Var. **raripila**, Briquet.

6. Near Perranwell, Druce, *B.E.C.*, 1912, p. 170.

**M. gentilis**, Linn.

3. Liskeard, Miss Todd, *B.E.C.*, 1920, p. 141.  
5. Crantock, 1915, Vigurs, *B.E.C.*, 1915, p. 363.

Var. **Pauliana** (F. Schultz).

2. Higher Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 386.

**M. Pulegium**, Linn.

1. Patch by path to harbour, Boscastle, 1915, Thurston.  
7. Field near Lowland Point, Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 386.

Var. **erecta**, Syme.

6. Pond near Veryan; Ruan Laniorne, 1913, Thurston.
7. Penhale, Lizard road; pond on road from Penhale to Mullion, 1914, Thurston.

**Origanum vulgare**, Linn.

2. Near Bearch, Pillaton, Hawk, *R.I.C.*, 1911, p. 386.
3. Lane near Helman Tor, 1920, Thurston.
5. Penponds, Camborne, 1916, Bunney.
6. Between Tregoney and Caerhays, Tresidder. Churchtown. Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 386. Orchard hedge near Cosawes viaduct, 1921, R. L. Smith and W. D. Watson.
8. Bank between St. Erth Station and Moor Grove. Lelant. Rees.

**Thymus ovatus**, Mill.

5. Shepherd's, Newlyn East, Druce, *Journ. Bot.*, 1909, p. 384; *R.I.C.*, 1911, p. 386. Wall near Sandhills, Perranporth, 1916, Thurston.

**Clinopodium vulgare**, Linn.

1. Carthamartha Farm gate, Lezant, 1917. Tresidder.
2. Wotton Cross, Landrake; Pillaton, Hawk, *R.I.C.*, 1911, p. 386.
3. Charlestown, Tresidder. Porthpean, Medlin.
5. Near Chyverton Mine, Perranwell, Perranzabuloe, 1917, Tresidder.

**Calamintha Acinos**, Clairv.

2. Wall, Heskyn Mill, Tideford, 1919 Thurston & Rilstone.

**Melissa officinalis**, Linn.

1. Bude, 1907, Harvey. Boscastle, 1915, Thurston.
2. Coombe, Landrake, Hawk, *R.I.C.*, 1911, p. 386.
3. Looe dust-heaps, 1916-20, Mrs. and H. M. M. Perrycoste.
4. Blisland, 1908, Harvey. Lemail Mill near St. Maby, 1915, Thurston.
6. Ruan Laniorne, 1913, Thurston. Mylor, 1921, R. L. Smith and W. D. Watson.
7. Near Mullion, 1914, Thurston.



*Salvia sylvestris*, Linn. (*nemorosa*, Linn). 3. "Par, 1908, Vigurs" (*Flora*). Par, 1910, Druce, *B.E.C.*, 1914, p. 73. Par Harbour, Miss A. B. Cobbe and F. Rilstone, *B.E.C.*, 1917, p. 121.

5. Sandy field and sand-dunes, Phillack, 1915-21, Rees.

*S. verticillata*, Linn. 3. Bodmin Road Station, 1917, Wise. Eastern part of Par Moor, Tresidder. 5. Phillack sand-dunes, 1918-21, Rees. 6. Falmouth Docks, Davey, *R.I.C.*, 1911, p. 386.

***Nepeta hederacea***, Trev. (*Glechoma hederacea*, Linn).

This species is exhaustively dealt with in a note on "*Glechoma hederacea* and its sub-divisions" by Mr. W. B. Turrill in *B.E.C.*, 1919, pp. 694-701.

Var. ***parviflora***, Benth.

3. Par Harbour, 1917, Miss M. Cobbe.

\**Dracocephalum parviflorum*, Nutt. Alien. North America. 3. Par, one plant, 1917, Rilstone, *B.E.C.*, 1917, p. 121.

***Scutellaria galericulata***, Linn.

3. Abundant on waste-ground, Bodmin Road Station, 1910, Mrs. and H. M. M. Perrycoste.

4. Lemail Mill near St. Mabyn, 1915, Thurston.

***Melittis Melissophyllum***, Linn.

2. Lanes and woods below Pensilva in Lynher Valley, 1919. "Some specimens 3ft. high had large flowers, but Archer Briggs did not countenance Smith's var. *grandiflora*." H. S. Thompson. *W.E.C.*, 1918-20, p. 111. Holwood, Quethiock, Hawk. *R.I.C.*, 1911, p. 386.

3. Edges of Woods, Fowey Valley, Salisbury.

4. Not infrequent near Grogley between Wadebridge and Bodmin, Salisbury.

5. Camborne (labelled *grandiflora*), Herb. Penzance Museum.

6. Lamorrän Wood. 1913, Thurston.

7. Coverack. in a thicket near the shore about a mile beyond the village towards Lowland Point, Rev. H. E. Fox, *R.I.C.*, 1911, p. 386.



\*Var. **grandiflora** (Sm).

6. Arallas, Ladock, 1915, Vigurs.

\**Sideritis montana*, Linn. Alien. Southern Europe. 5. Sandy field, Phillack, 1915, Rees. 6. Fowl-run, Falmouth Docks, 1917, Thurston.

**Marrubium vulgare**, Linn.

3. Pentewan, Tresidder.

4. "St. Minver" (*Flora*). Bray Hill near Rock, 1915, Thurston.

5. Wheal Hope lane, Perranzabuloe, Tresidder.

6. Veryan, 1913, Thurston. Falmouth, 1914, Miss M. Cobbe.

**Stachys officinalis**, Trev. var. **nana**, Druce.

7. Mr. Druce notes that plants from the Lizard retained the dwarf character under cultivation. "Some years ago Mr. R. Irwin Lynch of Cambridge found at the Lizard a white form of the same plant, which is figured and described as *S. Betonica*, var. *alba* in the *Gardener's Chronicle*, 127, 1918. It is, he says, from 5-7 inches high, forming one of the most beautiful rockery plants."

\***S. palustris**, Linn. var. **canescens**, Lange.

3. Par, Daltry, *B.E.C.*, 1913, p. 392.

Hybrid. **S. palustris** × **sylvatica** (*S. ambigua*, Sm).

3. Bank of stream, Polperro, 1919, Rilstone. "The large-flowered form." Druce, *B.E.C.*, 1919, p. 836.

*S. annua*, Linn. 3. Par Harbour, 1917, Rilstone. *B.E.C.*, 1917, p. 122. 5. Sandy field. Phillack, 1915, Rees. Hayle Towans (sand-dunes), 1915, Rilstone.

**Galeopsis angustifolia**, Ehrh.

5. Carnkief, Perranzabuloe, one plant, Rilstone.

\***G. Tetrahit**, Linn. var. **nigricans**, Bréb.

5. Tregenna, St. Columb Minor, 1910, Vigurs, *B.E.C.*, 1910, p. 582. "Mr. Davey and I have noticed this plant in our respective districts; it is probably common in the county." Vigurs. *R.I.C.*, 1913, p. 229.

**Leonurus Cardiaca**, Linn.

4. "Tamsquite" (*Flora*). In garden, Tamsquite, St. Tudy, 1915, Thurston.

**Lamium amplexicaule**, Linn.

I do not agree with Davey in considering this a native, Vigurs.

3. Par, 1917, Miss M. Cobbe. Charlestown, Tresidder.  
5. Usually a few plants every year on Mount Wise, Newquay, Vigurs.

**L. hybridum**, Vill.

3. Garden weed, Polperro, 1916, Rilstone, *B.E.C.*, 1916, p. 584. Field at Watergate between Polperro and Pelynt, 1915 et sq, Mrs. and H. M. M. Perrycoste. Par, Davey.  
7. Mullion, 1914, Miss A. B. Cobbe.

**L. purpureum**, Linn. var. **decipiens**, Sonder.

6. Falmouth Docks, 1909, Davey.

**L. maculatum**, Linn.

6. Roadside between Tregoney and Veryan, 1913, Thurston.

**L. album**, Linn.

1. Launcells churchyard, 1907, Harvey.  
2. New Bridge between Callington and St. Ives, Hawk, *R.I.C.*, 1911, p. 386.  
3. St. Martin, 1918; Lostwithiel, 1920, Thurston. Par, 1911, Davey; 1917, Miss M. Cobbe. Frequent around St. Austell, Tresidder.  
4. St. Breock churchyard, 1918, Thurston.  
7. Poltesco; Loe Valley, 1914, Thurston.  
8. Ludgvan, 1921, R. L. Smith and W. D. Watson.

**L. Galeobdolon**, Crantz.

3. Patch on roadside between Sandplace and Duloe, 1919, Thurston.

**Teucrium Chamaedrys**, Linn.

8. "On a bank where the field-path from Marazion to Perranuthnoe joins the road behind the church" (*Flora*). A large patch there, 1921, Thurston.

\**Ajuga pyramidalis*, Linn. Casual.

5. Phillack Towans (sand-dunes), with other introduced plants, Rees.

## PLANTAGINACÆ.

*Plantago media*, Linn.

2. Churchyard, Upton, 1920, Harvey.  
 3. Field above Head o' Ditch, Polperro, now abundant; field between Polperro new road and Longcombe, now spread largely thereabouts, Mrs. and H. M. M. Perrycoste. One plant in field, Crinnis, 1920, Thurston.  
 4. One plant in St. Issey Churchyard, 1918, Thurston.  
 5. Perranwell, Perranzabuloe, Tresidder.  
 7. Trevarno, H. Williams, *R.I.C.*, 1911, p. 387.  
 8. Railway-line, St. Erth to Marazion, 1912, Rees.

\**P. lanceolata*, Linn. var. *eriophylla*, H. & L.

5. Tolcarne, Newquay, Vigurs, *R.I.C.*, 1911, p. 387.  
 8. St. Ives, 1912, Thurston.

\*Var. *sphærostachya*, Röhl.

"Noticed by Davey and myself, and probably quite common,"  
 Vigurs, *R.I.C.*, 1913, p. 229.

8. Sand-dunes, Lelant, 1921. It is not worth a varietal status, but is only a form, W. Watson.

*P. Timbali*, Jord.

Recorded for Par. *Vide R.I.C.*, 1913, p. 224. Mr. E. G. Baker is now of opinion that the Par plants are not true *Timbali*.

8. Plants, which might have passed as *Timbali*, on tip between Penlee Point and quarry, 1921, W. Watson.

\**P. maritima*, Linn. var. *latifolia*, Syme.

5. Fistral beach, Newquay, 1912, Vigurs. "The leaves were broader in 1912 than in 1913. In 1912 they were as much as one inch broad." *B.E.C.*, 1913, p. 492. Many plants with leaves  $\frac{1}{2}$  inch broad, and plants with narrow toothed leaves, on roadside bank near Huer's House, Newquay; plants with broad toothed leaves, Gannel, Newquay, 1922, Thurston.

Var. **linearis**, Syme.

7. Quarry near Mullion, with wonderfully developed linear bracts, 1886, H. S. Thompson.

**Narrow-leaved form.**

5. Beach, Newquay, 1912, Vigurs, *B.E.C.*, 1912, p. 278.

\*Var. **sub-bracteata**, Druce.

3. Millandreath beach near East Looe; Polperro, 1916, Rilstone. "Lower flowers of the inflorescence strongly bracteate; bracts gradually diminishing in size upwards. . . . A lusus rather than a variety." *B.E.C.*, 1917, p. 49.
5. Roadside near Perranzabuloe Church, 1916, Bunney.

\*Var. **recurvata**, F. N. Williams.

"Cornwall," *B.E.C.*, 1910, p. 523.

\***P. Coronopus**, Linn. var. **crithmifolia**, Willd.

1. Millook, 1914, Druce, *B.E.C.*, 1915, p. 207.

\*Var. **ceratophyllum**, Rapin.

5. Cliffs at Newquay. "Almost as common here as the type and var. *pygmæa*. . . . Leaves very thick, not pinnatifid." Vigurs, *B.E.C.*, 1910, p. 583; *Journ. Bot.*, 1912, p. 57; *R.I.C.*, 1913, p. 229.

Var. **tenuifolia**, Wirt.

7. Par, 1912, Vigurs.

Var. **pygmæa**, Lange.

8. Dr. W. Watson writes:—"I saw this, I think, both at Hayle and Lelant. It is only a habitat form, and has no right to be called a variety. It intergrades with the type, and, when transplanted to moister ground, grows quite as well as the type."

\**P. aristata*, Mich. Alien. N. America. 3. Par Harbour, 1921, Medlin.

**Littorella uniflora**, Aschers.

5. Shepherd's Station; Pasty Pool north of Zelah; Lanteague near Goonhavern, Tresidder. Near St. Agnes Beacon, 1912, Rilstone.
8. Near Gurnard's Head, Miss C. P. Foster, *R.I.C.*, 1911, p. 387. Porthgwarra, Rev. H. E. Fox, *ibid.*



## ILLECEBRACEÆ.

**Illecebrum verticillatum**, Linn.

3. Trethurgy, St. Austell, Medlin. Starrick Moor, St. Austell, Tresidder.

6. Nanpean, 1911, Tresidder.

7. Gunwalloe, 1852, Herb. Penzance Museum.

8. Tremethic Moor, Rees.

\***Herniaria ciliata**, Bab. var. **angustifolia**, Pugsley.

7. "Ruan Minor, 1840, W. Borrer in the Br. Mus. as *H. glabra*." Pugsley, *Journ. Bot.*, 1914, p. 331; *B.E.C.*, 1914, p. 19. Banks on cliffs, Kynance Cove, 1912, Boyden, *W.E.C.*, 1913-14, p. 455.

\**H. hirsuta*, Linn. Alien. "Sandy pastures in Europe, extending into Normandy and Belgium," Dunn. 3. Par Harbour, with several aliens, on a large heap of sand, Davey, *R.I.C.*, 1911, p. 387; 1920, Tresidder. Ballast-heap, Charlestown, Tresidder, *B.E.C.*, 1920, p. 143.

**Scleranthus annuus**, Linn.

1. Week St. Mary, Tresidder.

3. Par Sands, 1917, Miss M. Cobbe. Cornfield, Starrick Moor, St. Austell, 1920, Medlin.

5. Carnkief, Perranzabuloe, Rilstone.

6. Retew Valley, St. Enoder, 1911, Rilstone. Lanner, 1920, Harvey.

8. Rinsey near Porthleven, Tresidder.

Var. **biennis**, Reuter (*hibernus*, Reichb.).

3. Par Harbour, 1915, Mrs. and H. M. M. Perrycoste. Large patch there, 1920, Medlin. The record in *B.E.C.*, 1920, p. 143, for Newquay. Vigurs. really refers to plants collected at Charlestown by Mr. Tresidder.

## AMARANTHACEÆ.

\**Amaranthus albus*, Linn. Alien. 3. Bodmin Road Station, 1918. Harvey.

## CHENOPODIACEÆ.

**Chenopodium polyspermum**, Linn.

2. Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 387.
6. Between Truro and Malpas, 1914, Miss M. Cobbe.

\***C. album**, Linn. var. **Pseudoborbassii** (Murr. as a sub-species).

3. Type, Par, 1913, Daltry, *B.E.C.*, 1913, p. 333.

\*Var. **serratifolium**, Murr.

3. Par, Druce, *B.E.C.*, 1912, p. 173.

\*Var. **subficifolium** (Murr. as a sub-species).

3. Par, Druce, 1909, *B.E.C.*, 1912, p. 174.

\***C. viridescens**, St. Am. var. **vivax** (Sond). Alien.

8. Beach outside Falmouth Docks, 1917, Miss M. Cobbe, *B.E.C.*, 1920, pp. 42, 143.

*C. leptophyllum*, Nutt. 5. Casual in garden, Lambourne Hill, Perranzabuloe, 1918, Rilstone. Cultivated field, Phillack, 1915, Rees.

**C. murale**, Linn.

3. Charlestown, Tresidder.
5. Near Holywell Bay, 1916, Rilstone.
8. Long Rock, Davey, *R.I.C.*, 1911, p. 387. Perranuthnoe, Rev H. E. Fox, *ibid.*

**C. urbicum**, Linn.

3. Par, 1911, H. Groves, Davey, and Vigurs.

Var. **intermedium**, Moq.

5. Plentiful in field, Treludderow, Newlyn East, 1909, Vigurs, *B.E.C.*, 1909, p. 469; 1911, p. 56; 1912, p. 221.

**C. rubrum**, Linn.

3. Polruan, 1919, Miss Margaret Baggallay.
5. Penhale Mine, and damp hollows in Penhale Sands, 1916, Rilstone.

Var. **pseudo-botryoides**, Wats.

8. Salt-marsh, Copperhouse near Hayle, 1917, Rilstone.

\*Var. *humile*, Gurke (var. *pusillum*, Haussk; sub-sp. *botryodes*, Sonder).

7. Loe Pool, Rogers, 1857, in Herb. Druce as *C. rubrum* f. *B.E.C.*, 1913, p. 332.

\**C. glaucum*, Linn.

Recorded as an error in the *Flora*, but now included.

4. Martyn's yard, Wadebridge, 1918, Thurston.

5. Field border, Goonhavern, 1914, Tresidder, *B.E.C.*, 1916, p. 500. Lambourne Hill, Perranzabuloe, Rilstone.

6. Waste-ground between Truro and Malpas, Miss M. Cobbe, *B.E.C.*, 1916, p. 500.

*C. Bonus-Henricus*, Linn.

The first record (*Flora*) should read:—Borlase, Nat. Hist. Corn., 1758.

3. "Polperro, T. Q. Couch" (*Flora*). Not seen there by the Perrycostes. Looe dust-heaps, 1916-17, Mrs. and H. M. M. Perrycoste.

\**C. hircinum*, Schrad. Alien. Brazil. 3. Par, 1908, Druce, *B.E.C.*, 1912, p. 175.

\**C. Berlandieri*, Moq. Alien. Central America. 3. Par, Druce, *B.E.C.*, 1913, p. 226.

\*Var. *Zschackei*, J. Murr (Murr. as a sub-species). Alien. 3. Par, Druce, *B.E.C.*, 1912, p. 175.

\**C. Bernburgense* (Zschacke). Alien. 6. Beach outside Falmouth Docks, Rilstone, *B.E.C.*, 1920, p. 144.

\**C. virgatum*, Thunb. Alien. Europe. 5. Phillack Towans (sand-dunes), on site of military war camp, 1921, Rees.

\**Spinacia oleracea*, Linn. Alien. 8. Hayle, a large beet-like looking plant, Druce. The plant, called by market gardeners Spinach Beet, on waste ground near Hayle Causeway, 1921, Thurston.

\**Atriplex Halimus*, Linn. Alien. 5. Planted in recent years at Newquay station, by the Gannel, and at Perranporth station, and may be expected to become naturalised, Vigurs.



**A. littoralis**, Linn.

3. Par Sands, 1920, Thurston.

**\*A. patula**, Linn. var. **bracteata**, Westl.

3. Par, 1921, Medlin.

**A. hastata**, Linn.

3. Looe dust-heaps, 1920, Thurston. Charlestown, Tresidder.  
6. Pendower beach, Gerrans Bay, 1913, Thurston.  
7. Poldhu Cove, 1914, Thurston.  
8. Hayle Causeway, 1912, Thurston.

**A. deltoidea**, Bab.

7. Mullion, 1914, Thurston.

"*A. deltoidea*, Bab. is now placed as one of the many vars. of  
*A. hastata*, L." *Bab. Man.*, 10th ed., 1922, p. 590.

**\*Var. salina**, Bab.

4. Coast, Portquin, Rev. H. E. Fox, 1910, *W.E.C.*, 1910-11, p.  
308.

**A. Babingtonii**, Woods.

3. Charlestown, Tresidder.  
5. Trevone Bay, 1911, Boyden.

**A. laciniata**, Linn.

3. Charlestown, Tresidder.  
5. Constantine Sands, 1918; Porth Towan, 1912, Thurston.  
7. Poldhu Cove, 1914, Thurston.

**A. portulacoides**, Linn.

2. Salt-marsh, Shillingham, Hawk, *R.I.C.*, 1911, p. 387.  
3. Par Sands. 1920, Thurston.

\**A. hortensis*, Linn. Alien. Garden outcast, Par, 1910, Vigurs,  
*R.I.C.*, 1913, p. 226.

**Salicornia stricta**, Dum.

2. Salt-marsh. Shillingham, Hawk. *R.I.C.*, 1911, p. 387.  
3. Marsh by Trelawney river, Mrs. and H. M. M. Perrycoste.  
Par Sandr. Davey.



**\*S. appressa**, Dum.

3. Par, Goode, *Journ. Bot.*, 1910, p. 142; *R.I.C.*, 1911, p. 387.

**Suæda maritima**, Dum.

3. Par Sands, Mrs. and H. M. M. Perrycoste, Charlestown, Tresidder.  
7. " Helford " (*Flora*). Tremayne quay, Tresidder.

**Salsola Kali**, Linn.

3. Par Harbour, 1917, Miss M. Cobbe. Charlestown, Tresidder.  
6. Pendower beach, Gerrans Bay, 1913, Thurston.

**\*Var. tenuifolia**, Mey.

3. Charlestown, 1918, Tresidder.

**POLYGONACEÆ.****Polygonum aviculare**, Linn.

Dr. Lindman has, in *Svensk Botanisk Tidskrift*, 1912, divided this into two species, *P. heterophyllum* and *P. æquale*. Vide *B.E.C.*, 1912, pp. 176-79.

**\*Var. erectum**.

3. Par, 1911, Druce, *R.I.C.*, 1913, p. 229.

**\*P. heterophyllum**, Lindm.

3. Par Harbour, 1913, Vigurs.

**\*Var. angustissimum**, Meissn.

6. Perranwell, 1912, Druce, *B.E.C.*, 1912, p. 177.

**\*Hybrid. P. æquale × calcatum.**

3. Par, 1911, with *P. æquale*, Lindm, Druce, *B.E.C.*, 1913, p. 393.

**P. Raii**, Bab.

1. Widemouth, 1907, Harvey.  
6. Pendower beach, Gerrans Bay, 1913, Thurston.

**P. maritimum**, Linn.

3. Several plants at Par on sand heaps near the harbour, Davey, *R.I.C.*, 1911, p. 387.

**P. lapathifolium**, Linn.

5. Perranporth, 1916, Thurston.

\*Var **punctatum**, Greml.

5. Perranporth (approaching var. *punctatum*) 1916, Rilstone.
6. Falmouth, 1917, Thurston. "With golden glands on under side of leaves as well as on the perianth." *B.E.C.*, 1918, p. 307.

\*Var. **incanum**, Lej. & Court.

5. Rejerrah, Newlyn East, 1916, Rilstone.

**P. amphibium**, Linn.

7. Kennack Sands; Hayle Kimbro pond, Lizard road, 1914, Thurston.

Var. **terrestre**, Koch.

3. Looe dust-heaps, 1918, Rilstone.

**P. Bistorta**, Linn.

1. Dipper Farm, Whitstone, 1917, Tresidder.
3. "Port Looe, Couch" (*Flora*). Still at Port Looe near West Looe, 1917, Mrs. and H. M. M. Perrycoste. "Lostwithiel, Key's Flora of Devon and Cornwall, 1865-71" (*Flora*). Several patches on roadside, Lostwithiel, 1920, Thurston.

- P. cuspidatum*, Sieb. & Zucc. 1. Rocky Valley near Tintagel, 1915, Thurston. 5. Gwithian. 6. Gear quarry near road from Gwennap to Stithians, abundant; Enys, Mylor; Perranwharf, 1921, R. L. Smith and W. D. Watson. 7. Releath, Sithney, Hosking, *R.I.C.*, 1911, p. 387.

**Fagopyrum sagittatum**, Gilib.

3. Duchy Terrace, Minions. 1920, Harvey.
5. Trevemper Bridge near Newquay, 1913, Vigurs.
6. Philleigh. 1913, Thurston. Lanner, 1921, R. L. Smith and W. D. Watson.
8. St. Erth; Lelant, 1912, Thurston.

\*Hybrid. **Rumex conglomeratus** × **crispus**

Found in Cornwall by Mr. Druce and Dr. Moss, 1911, *R.I.C.*, 1913, p. 229.

**R. rupestris**, Le Gall.

3. Gravel beach near Looe, 1917, Rilstone.

**R. sanguineus**, Linn.

6. Perranwharf, 1911, Davey.

Dr. Druce suggests that the records for this plant require overhauling.

**R. maximus**, Schreb.

7. Seen by the Rev. E. S. Marshall at Cunnack's station, Gunwalloe, with *R. Hyrolapathum*, from which it seemed to differ specifically, *Journ. Bot.*, 1918, p. 187.

**R. Hydrolapathum**, Huds.

4. Polzeath, St. Minver, Rev. H. E. Fox, *R.I.C.*, 1911, p. 387.

\***R. Acetosella**, Linn. var. **angiocarpus** (Murb).

6. Perran-ar-worthal, 1911, Druce. "The common plant of the British Isles." *New Phyt.*, 1911, p. 319; *R.I.C.*, 1913, p. 229.

\*Sub-var. **integrifolia** (Wallroth, *Sched. Crit.*, 187, as a var).

8. Carbis Bay, H. Clarke, *B.E.C.*, 1915, p. 208.

\**Rumex magellanica*, Griseb. 5. Phillack Towans (sand-dunes) on site of military war camp, 1921, Thurston and Rilstone.

Dr. Druce writes:—Thellung would refer the plant to *R. cuneifolius*, Campd, from S. America.

## THYMELEACEÆ.

**Daphne Laureola**, Linn.

1. Marhamchurch, one plant in hedge, 1919, Harvey.

7. "Antron, Sithney" (*Flora*). In the grounds of Antron, 1914, Thurston.

**ELÆAGNACEÆ.****Hippophae Rhamnoides**, Linn.

3. Gribbin Head, in a rough stunted plantation, 1920, Tresidder.
8. "Near St. Erth station" (*Flora*). A few yards from railway bridge near west end of Hayle Causeway, 1921, Rees.

**LORANTHACEÆ.****Viscum album**, Linn.

6. Chacewater Rectory, 1920, Harvey.

**EUPHORBIACEÆ.****Euphorbia Peplis**, Linn.

8. Fifteen plants, Scilly Islands, 1913, White, *Journ. Bot.*, 1914, p. 19; also seen in 1920 by Mr. Hosking.

**E. amygdaloides**, Linn.

1. Carthamartha Wood, Lezant, Tresidder.
3. St. Blazey, 1917, Miss A. B. Cobbe.
6. Bishop's Wood near Truro, C. G. Henderson, *R.I.C.*, 1911, p. 387.
7. Poltesco, 1914, Thurston.

**\*E. Ecula**, Linn. "Central and South-east Europe," Dunn.

Recorded as an error in the *Flora*, but now included.

6. Two separate clumps against the wall of the mill, Falmouth Docks, Miss M. Cobbe, *B.E.C.*, 1917, p. 127.

**E. Paralias**, Linn.

8. Pra Sands, 1911, Davey.

**E. exigua**, Linn.

5. Shepherd's station, Tresidder.
7. St. Martin church fields, Tresidder. Between Mullion and Penhale, Lizard road, 1914, Thurston.



**E. Lathyrus**, Linn.

5. Degembris, Newlyn East, Tresidder, *R.I.C.*, 1911, p. 387.  
Wheal Kitty Downs, St. Agnes, 1914, Rilstone.

**Mercurialis perennis**, Linn.

The first record (*Flora*) should read :—T. Q. Couch in *Pol. Rep.*, 1848.

In *Journal of Botany*, 1909, p. 390, the Editor writes :—

“ There is, we think, little doubt that the kind of Mercury with leaves like spinage, referred to by Borlase in a passage placed by Mr. Davey under *Mercurialis perennis* is *Chenopodium Bonus-Henricus*, which in Lincolnshire is called Marquery, and eaten as spinage.”

**M. annua**, Linn.

3. One plant by roadside near New Road, Looe, 1916, but not seen since, Mrs. and H. M. M. Perrycoste. Ballast-heap, Charlestown, 1920, Tresidder.

**URTICACEÆ.**Genus **Ulmus**.

Since the publication of the *Flora*, much work has been done on the British Elms, and a little on those occurring in Cornwall. Although much remains to be done, a few tentative observations may be useful. I had the advantage, in 1911, of having the trees around Newquay named by Dr. C. E. Moss. The study of the Elms is complicated by the different names adopted by various writers. C. C. Vigurs.

**Ulmus glabra**, Hudson (*U. montana*, Stokes ; *U. scabra*, Miller).  
Wych Elm.

Probably rarer than the records in the *Flora* would suggest, and some of them should probably be transferred to *U. major*, Sm.

5. Two authentic trees at Trevowah, Crantock, Vigurs, *B.E.C.*, 1914, p. 160.  
8. Love Lane, Penzance, 1921, Thurston.

**U. major**, Sm. (*U. hollandica*, Miller).

Usually called the Dutch Elm, though Professor Henry dissents, as it is not found in Holland. Probably almost as common as the Cornish Elm, and may be native. The few records in the *Flora* give quite a wrong impression of its prevalence.

3. Row of trees in hedge, Longcoombe valley, Polperro; hill above Pont leading to Bodinnick ferry, 1921, Rilstone.
5. A tree at Penpoll, Crantock, *B.E.C.*, 1911, p. 121; 1915, p. 370. Wheal Francis, Perranzabuloe, Vigurs.

\***Var. Daveyi**, Henry. Elwes and Henry, *Trees of Great Britain and Ireland*, VII., 1884, 1913, as a var. of *U. major*.

It is underspreading like the type, has very pendulous branches, and somewhat pubescent twigs, and the epicormic branches never produce corky ridges. The leaves are smaller, 2½ in. long, 2 in. broad. Rare in Cornwall.

3. Near Coldrenick, Henry.
5. Near Perranporth, Henry. I think this is an error for Perranwell in district 6. Davey showed me the tree after which Henry named the variety opposite the house "Beechwood." C. C. Vigurs.

**U. campestris**, Linn (*U. sativa*, Miller; *U. surculosa*, Stokes).  
The English Elm.

In the *Flora* it is indicated as common, but many of the trees which were thought to be this we now know as *U. major*, Sm.

5. A few trees close to Newquay, one being the well known arched tree at Tolcarne, named by Dr. Moss.

\***U. glabra**, Miller (*U. nitens*, Moench). Smooth-leaved Elm.

3. By stream below garage, Polperro, 1921, Rilstone. A wide-spreading tree overhanging the river, Lostwithiel, 1921, Thurston.
5. One tree at Newquay, Moss.
8. Avenue, Morrab Gardens, Penzance, 1921, Thurston.

**U. stricta**, Lindlay (*U. glabra*, Miller, var. *stricta*, Ley; *U. campestris*, Linn. pro. parte, var. *cornubiense*, Loudon; *U. sativa*, Miller, var. *cornubiense*, and many other synonyms). Cornish Elm.

It is, as Professor Henry says, a native, and always reproduced by suckers, *B.E.C.*, 1915, p. 280. Davey says it is common in most parts of the county. Its strict habit and small leaves make it quite easy to identify. "In Cornwall it usually occurs in hedgerows." Moss, *Birtish Elms*, *Gard. Chron.*, 1912.

The Elms are easy to collect for the purpose of identification, only twigs growing from large branches (not suckers), with well developed leaves, being necessary. They are not easy to identify from written descriptions. A short description of them will be found in *Bab. Man.*, 10th ed., 1922, Appendix II., pp. 591-3.

\**Urtica dioica*, Linn. forma *purpurascens*, Druce.

7. Lanarth near St. Keverne, 1919, P. D. Williams. "The leaves are suffused with violet-purple," *B.E.C.*, 1919, p. 575.

*U. urens*, Linn.

3. Fishna Bridge, Polperro, 1914 et sq; Polkerris; Helman Tor near sign-post, Mrs. and H. M. M. Perrycoste.

6. Retew Valley near St. Dennis, 1911, Rilstone. Parc Behan, Veryan, 1913, Thurston.

8. Hayle; Marazion, 1921, W. Watson. Land's End, 1911, Davey. St. Mary's, Scilly, 1898, Davey.

*Cannabis sativa*, Linn. 3. Highways, Tywardreath, 1917, Miss M. Cobbe. 5. St. Agnes, Miss Snell, *R.I.C.*, 1911, p. 387.

\**Helxine Soleirolii*, Req. Alien. 6. Churchyard wall, St. Just, Roseland, probably an escape from the rectory garden, Miss M. Cobbe, *B.E.C.*, 1917, p. 52. 8. Wall of cottage garden, Trewidden, Penzance, 1920, Barratt.

## MYRICACEÆ.

*Myrica Gale*, Linn.

3. Yearl's Coombe, Trelawney river, 1912 et sq, Mrs. and H. M. M. Perrycoste.

6. Mylor Bridge, 1917, Mrs. and H. M. M. Perrycoste.

## CUPULIFERÆ.

\*Hybrid *Quercus pedunculata* × *sessiliflora*.

5. Trenerry Wood, St. Allen, Tresidder.

**Castanea sativa**, Mill.

Flowering season "May-June" (*Flora*). Substitute July-August, Davey.

3. Trelawney Wood, Mrs. and H. M. M. Perrycoste. Near Duporth, Tresidder.

6. Mill near Veryan, 1913, Thurston. Perran-ar-worthal, 1911, Davey.

7. Near Mawgan, 1914, Thurston.

## SALICACEÆ.

**Salix triandra**, Linn.

3. Transfer the record for Hendersick (*Flora*) to *S. fragilis*, and add Tredudwell; near Sowden's Bridge; Longcoombe, Polperro, F. H. Perrycoste.

**S. fragilis**, Linn.

3. Edge of stream, Rotterdam, and marsh opposite gate of Talland vicarage; Warren cliff, Polperro; one tree in front of Longcoombe cottage near Polperro, Mrs. and H. M. M. Perrycoste. Swamp along railway, Lostwithiel, 1920, Rilstone.

**S. alba**, Linn.

3. Morval Park near Looe, Mrs. and H. M. M. Perrycoste.

5. Near Gustivean, St. Columb Minor, 1912; Russia Valley, Cubert, 1913. Vigurs.

**S. viminalis**, Linn.

3. Swamp along railway, Lostwithiel, 1920, Thurston.

6. Swamp near Port Holland, 1913, Thurston.

7. Osier bed between Trerise Farm and Kuggar, 1914, Thurston.

Hybrid. **S. aurita** × **cinerea**.

5. Gustivean farmyard, St. Columb Minor, 1919, Vigurs.



Hybrid. **S. aurita** × **viminalis**.

6. Truro, 1911, Druce.

**S. caprea**, Linn.

8. A form with red veins to the leaves, and young stamens purplish, Trevaylor, near Gulval, 1921, W. Watson.

**S. repens**, Linn.

1. Moor near Bolventor, 1920, H. S. Thompson.

3. Court Wood, Lanreath, Mrs. and H. M. M. Perrycoste. Starrick Moor, St. Austell, Tresidder, *R.I.C.*, 1911, p. 387.

5. Swamp near Carnkief pond, Perranzabuloe, 1915, Thurston. Silverwell Moor, Rilstone.

8. Carbis Bay, 1912, Thurston.

Owing to scarcity of material in Cornwall, the broccoli basket makers of Penzance and Marazion obtain their supply of willows mainly from Somerset, Thurston.

**Populus alba**, Linn.

3. Trelawney Mill; near Lanteglos rectory; Lanreath, Mrs. and H. M. M. Perrycoste.

7. Cottage near Mullion Cove, 1911, Thurston.

Hybrid. **P. alba** × **tremula** (*P. canescens*, Sm).

8. Bank of stream, Penzance; Hele Ager Moor near Sennen, 1921, Thurston.

**P. nigra**, Linn.

1. Wellington Hotel, Boscastle, 1915, Thurston.

3. Delete the record for Polperro (*Flora*).

**P. deltoides**, Marsh.

Mr. Druce writes:—"To this must, I think, be referred all, or nearly all the Cornish records." *Journ. Bot.*, 1911, p. 303.

The records for *P. nigra* in the *Flora* require revision.

\***P. serotina** (Hartig). Black Italian Poplar.

3. Trelawne; Lansallos, 1920, Mrs. Perrycoste.

Mr. A. B. Jackson writes:—"It is the commonest Poplar in cultivation, and now considered by many to be a hybrid between the American *Populus monilifera*, Ait (*deltoides*, Marsh), and the Black Poplar, *P. nigra*."

## CONIFERÆ.

**Juniperus communis**, Linn.

3. Two small plants on Par Sands, 1917, C. Bucknall and F. H. Perrycoste.

**Pinus Pinaster**, Ait.

“At Trevethoe, Mr. Praed has taken a great deal of trouble to raise his plantations in a situation where they are exposed to both the south-west winds, and also the northern winds, being the highest ground between the Bristol Channel and St George's, in that part of the country. After making a great number of unsuccessful experiments at a great expense, in order to find out some hardy plant that would shelter the more slender trees, he was led to try the pine-aster fir, from observing that this tree grew well spontaneously from some cones which happened to be accidentally scattered in one of the fields near his house.” Fraser, *General View of the County of Cornwall*, 1794, p. 60.

## HYDROCHARIDÆ.

**Elodea canadensis**, Michx.

7. Carminowe Creek, Loe Pool, 1911, Davey.

## ORCHIDACEÆ.

\***Malaxis paludosa**, Sw.

Recorded as a possible error in the *Flora*, but now included.

3. Several plants at edge of bog near the ponds above Wardbrook Farm, Cheesewring, P. and K. Hambly, *Journ. Bot.*, 1910, p. 259; *R.I.C.*, 1911, p. 388.

**Neottia Nidus-avis**, Rich.

1. “On fir roots at Week St. Mary Vicarage” (*Flora*). Fir trees cut down, and grown relaid. No sign of it in 1915, Thurston.

**Listera ovata**, Br.

1. Dipper Farm, Whitstone; Week St. Mary, Tresidder. Coombe Valley; Minster Valley, 1915, Thurston.

3. One plant at Saint's Hill, Polperro, 1911 et sq; about twelve plants near Talland end of Bridle lane, Mrs. and H. M. M. Perrycoste. Boconnoc, 1874, Herb. Penzance Museum. Between marsh and railway, Lostwithiel, 1920, Thurston. Avenue, Biscovey, Medlin. Charlestown, Tresidder.
6. Lamorran Wood, 1913, Thurston. "Garlic Lane, Mylor" (*Flora*). For Garlic read Garrick. "Greatwood," Mylor, 1921, R. L. Smith and W. D. Watson.
8. Orchard, Coswinsawsen Farm, Gwinear, 1918, Rees.

### **Spiranthes spiralis, Koch.**

1. Minster Valley, Boscastle, 1915, Thurston.
2. Round Tregantle Fort, 1920, Medlin.
3. Crinnis, Medlin.
5. Carnkief and Penwartha, Perranzabuloe, 1911, Rilstone.
6. Bargas Moor, Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 388. Wheal Damsel, Carnmarth, Miss Lawn, *ibid*.
7. Downs between the Lizard and Kynance, 1911, Davey. Cliff, Mullion Cove, 1914, Thurston.

### **Helleborine latifolia, Druce.**

1. Tamerton, 1915, Harvey. Hexworthy Wood, 1915, Wise. Several places in Week St. Mary, Tresidder.
3. One or two plants in grounds of Trenean near Hensford, 1915, Miss Boucher. Several exceptionally tall plants on roadside near Glynn Lodge, Liskeard-Bodmin road, 1920, Pease.

### **Orchis morio, Linn.**

3. "Talland, Couch" (*Flora*). Not seen there by the Perrycostes.
7. Cadgwith, 1914, Miss A. B. Cobbe. Between Poltesco and Cadgwith; Pradannack Downs, 1914, Thurston. Penhale, Miss C. E. Larter, *R.I.C.*, 1911, p. 388.

### **O. incarnata, Linn.**

7. Ruan Major, 1914, Miss M. Cobbe.

### **\*O. prætermissa, Druce.**

Many of the marsh orchids formerly included under *O. latifolia*, having, inter alia, unspotted leaves narrowing from the base upwards, have been separated by Dr. Druce under the name *O. prætermissa*. Vide *B.E.C.*, 1913, p. 339; 1917, p. 149; 1919, p. 576; *Bab. Man.*, 10th ed., 1922, pp. 594-5.

1. Millook, Harvey, *B.E.C.*, 1914, p. 75.
3. Par, Harvey, *loc. cit.*
4. St. Enodoc Marsh, 1915, Thurston.
5. Newquay, 1914, Vigurs. Perranporth, 1916, Harvey. Lambriggan, Perranzabuloe, Rilstone.
6. Swamp and valley near Veryan, 1913, Thurston.
7. Lizard, F. J. Smith, *B.E.C.*, 1915, p. 212.

\*Hybrid. **O. prætermisssa** × **maculata**, Linn. vera.

6. Perranwell, Druce, *B.E.C.*, 1914, p. 24.

**O. ericetorum**, Linton (*O. maculata*, Linn. var. *præcox*, Webster).

3. Bodmin Moor, 1920, Thurston.
8. Tremithick Moor, 1912, Hosking.

In the *Journal of Botany*, 1921, p. 305, Colonel Godfery points out that *O. ericetorum*, Linton, is identical with *O. elodes*, Griesbach, and, as that name dates from 1845, while Linton's *O. ericetorum* dates from 1900 (*Flora of Bournemouth*), and *O. maculata* var. *præcox*, Webster, from 1886, the name of the plant must be *O. elodes*, Griesbach, or *O. maculata* var. *elodes*.

**Habenaria conopsea**, Benth.

4. St. Breock Downs, 1915, Thurston.

**H. bifolia**, Br.

1. Road between Morwenstow and Kilkhampton, 1911, G. C. Henderson.
3. The record for Trelawney Hill (*Flora*) should be transferred to *H. virescens*. Two spots in Yearl's Coombe, Trelawney river, Miss C. Grigg; 1917, Mrs. and H. M. M. Perrycoste. Prideaux near St. Blazey, Medlin. Crinnis, 1912, J. H. Collins.
7. Coverack; Goonhilly Downs, Rev. H. E. Fox, *R.I.C.*, 1911, p. 388.

**H. virescens**, Druce.

2. Woods above Lynher river, 1919, H. S. Thompson.
1. Waste moorland on top of Tresparret Downs near the Highcliff, 1921, Smith-Pearse.
3. One plant by roadside near Langreek, 1911; abundant by high road west of East Taphouse, F. H. Perrycoste. Church bridge, Duloe, 1906, Adams.



**H. bifolia** and **H. virescens.**

2. Near Tokenbury between Pensilva and Upton, apparently hybridising, 1919, H. S. Thompson.

**IRIDACEÆ.****Iris foetidissima**, Linn.

1. Poughill, 1906, Harvey. Bude, Tresidder.  
 3. To "Cliffs near Lansallos" (*Flora*) add above Queen's beach; abundant above Lantic Bay; Polkerris cliffs, Mrs. and H. M. M. Perrycoste. Gribbin head, Medlin.

**I. tuberosa**, Linn.

8. Near Ludgvan, 1914, Miss Waterer.

\**Tritonia crocosmiflora*, Nicholson (*Montbretia crocosmiflora*). Alien. An outcast at Par Harbour. Falmouth Docks, Perranar-worthal, Penzance, and other places. A garden hybrid, occurring as a casual near Feock, recorded in *B.E.C.*, 1911, p. 34.

\**Sisyrinchium angustifolium*, Mill. Alien. 1. Among heather near Bude, Rothschild, *B.E.C.*, 1912, p. 217.

**AMARYLLIDACEÆ.****Narcissus Pseudo-Narcissus**, Linn.

1. Kelleigh, Week St. Mary, Tresidder.  
 2. Kernock. Pillaton, Hawk, *R.I.C.*, 1911, p. 388.  
 3. Mount, Par, Medlin.

**N. odorus**, Linn. According to Mr. Evans var. *heminalis*, Hort, *B.E.C.*, 1909, p. 424.

6. "Plentiful in a damp meadow and old hedge banks between London Apprentice and Sticker" (*Flora*). Meadow ploughed up, and "thousands of bulbs sold." No sign of it when the spot was visited by Dr. Vigurs and Mr. Thurston in March, 1911. Half a dozen plants seen in the hedge by Mrs. Wedgwood in 1919.

**N. biflorus**, Curt.

3. Field at Portlooe near West Looe, Miss C. Grigg.
4. Tregorden near Egloshayle, 1918, Thurston.
5. Illogan, Herb. Penzance Museum.
7. St. Martin, 1912, Miss Vivian.

**N. poeticus**, Linn.

3. Marsh at Sandplace, 1917, Mrs. and H. M. M. Perrycoste.

**Galanthus nivalis**, Linn.

3. Add to "Near Polperro" (*Flora*) in Longcoombe; orchard at Kilmanorth, Talland. Very abundant in several fields at Treenewan and Tregamellyn; Treworgey between Tredinnick and Looe, Mrs. and H. M. M. Perrycoste.

**LILIACEÆ.****Ruscus aculeatus**, Linn.

1. Week St. Mary rectory. Cottage garden, and Penally House, Boscastle, 1915, Thurston.
3. "Polperro, T. Q. Couch" (*Flora*). Cliff above Nolland Point between Polperro and Lansallos, 1917, Mrs. and H. M. M. Perrycoste. Golant, Medlin.
5. The Grove, St. Agnes, Rilstone.
6. Stithians, Tresidder.
7. Erisey near Mullion, 1914, Thurston.
8. Marazion, 1911, Davey. Lelant, Rees.

**Asparagus maritimus**, Mill.

7. East of Kynance, 1911, Davey. Cliff at Rill Head, 1900, W. T. Miller. Cliff west of the Horse, Kynance, 1897; abundant on the landslip west of Kynance Cove, 1917, Mrs. and H. M. M. Perrycoste.

**\*A. officinalis**, Linn. var. **altilis**, Linn. Casual.

1. Rocky Valley near Tintagel, 1915, Thurston.
3. Par Sands, 1911, Mrs. and H. M. M. Perrycoste; abundant there, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 130.
5. Constantine Sands, a single plant known to Mr. C. G. Lamb for many years.

**Allium Ampeloprasum**, Linn. var. **bulbiferum**, Syme.

1. Crackington Haven, one plant, 1915, Thurston.

**A. Babingtonii**, Borr.

3. Established from Poltesco in Mr. Perrycoste's garden at Polperro.
5. "Newquay, Vigurs" (*Flora*). A few plants at Porth and Trerice Mill; near Penpoll, Crantock; the Gannel at foot of Kill Lane; abundant in a patch at Trevemper Bridge, Vigurs.

**A. Schœnoprasum**, Linn.

3. Par Sands and adjacent railway embankment, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 130.
7. The Rev. E. S. Marshall doubted the occurrence of this species in the Lizard peninsula, *W.E.C.*, 1917-18, p. 77.

**A. sibiricum**, Linn.

7. "Collected at Mullion; cultivated at Cardiff, it has lost all its distinguishing characters, and is indistinguishable from *Schœnoprasum*, Paul W. Richards. This note . . . is worth testing," *B.E.C.*, 1919, p. 682. The plant abounds on Pradannack Downs near Mullion Cove.

**A. triquetrum**, Linn.

- "Native apparently" (*Flora*). Frequently introduced.
3. Garden patch, Talland sands; cliff west of Gigger Cove; coastguard gardens, Polperro, all introduced, F. H. Perrycoste. Near Sweets House, Lostwithiel, introduced, Vigurs.
  5. Watering (Water Splash) south of Trevedras, and Carnanton Woods, Mawgan, possibly native; by Parkin's shop, St. Columb Minor, introduced, 1912. Vigurs, *B.E.C.*, 1913, p. 498.
  6. In many spots round Mylor Bridge, Mrs. and H. M. M. Perrycoste. Falmouth Docks, Davey, 1911.
  7. Cadgwith village, Miss C. E. Larter, *R.I.C.*, 1911, p. 388. Church wall, Landewednack; Sithney churchyard, 1914, Thurston.
  8. Tremethick Cross; Hea Moor; Ludgvan, 1913. Miss M. Cobbe. Abundant at Drift near Sancreed, 1921, Thurston.

**A. ursinum**, Linn.

6. Daubuz Moor, Truro, 1911, and for many years previously, Davey.
7. Chypons near Mullion, 1914, Miss M. Cobbe.

- \**A. roseum*, Linn. var. *bulbiferum*. Alien. 8. Abundant, and perfectly naturalised in a field at St. Mary's, Scilly Isles, 1912, Miss Vivian, *R.I.C.*, 1913, p. 226.

**Scilla autumnalis**, Linn.

3. Par Harbour, a few plants, 1920, Medlin.  
7. St. Martin-in-Meneage, Tresidder. Poltesco, 1914, Thurston.

**S. verna**, Huds.

4. Lundy Cove, abundant, 1910, Rev. H. E. Fox.

- \**S. campanulata*, Ait. Alien. In *Journ. Bot.*, *Sept.*, 1920, the Editor has a note on this plant. Briefly, he had noticed on a picture of Richmond Park in the Underground Railway a group of unmistakable *S. campanulata*, and learnt from the artist, Mr. Tafani, through his agent Mr. Oliver, that the flower grew in the Park. The agent added that he had seen the plant in Middlesex and the West of England, instancing "a moist and mossy spot in a wood off the road between Perranporth and Truro." This *Scilla*, which grew like a weed in a garden near Perranzabuloe church, has strayed into a hedge-bank outside, 1921, Rilstone. Recorded as *S. hispanica*, Mill. *B.E.C.*, 1920, p. 150.

**Ornithogalum umbellatum**, Linn.

3. Two plants, Par Sands, garden outcast, 1912, Vigurs.  
5. Little Callestick, Perranzabuloe, 1916, Thurston.  
6. Bissoe, 1912, Davey.  
8. "Near Marazion" (*Flora*). Between St. Erth and Marazion, Rees.

*Asphodelus fistulosus*, Linn. 5. Sandy field, Phillack, 1915, Rees.

*Lilium pyrenaicum*, Gouan. 8. Lamorra (Lamorna?), Penzance, half mile from nearest habitation, 1913, Ullman, *B.E.C.*, 1913, p. 394.

## JUNCACEÆ.

\***Juncus ranarius**, Nees (*Linnæa*, XX, 243, 1840).

7. Lizard. "For a great part it is the var. *fasciculatus*, Koch, of British Botanists." *B.E.C.*, 1911, p. 35. In *New Phyt.*, April, 1912, the claim of *J. ranarius* to specific rank is disallowed. *Vide Journ. Bot.*, 1912, p. 207.



**J. squarrosus**, Linn.

1. Goscott Moor, Week St. Mary, Tresidder. Laneast Down, 1919, Foott.
3. Carslake near St. Austell, Medlin.

**J. compressus**, Jacq.

6. "Falmouth" (*Flora*). Falmouth Docks, 1917, Thurston.

**J. Gerardi**, Lois.

5. Harlyn Bay, 1911, Miss Spettigue.
6. Marsh, Ruan Laniorne, 1913, Thurston.

**J. tenuis**, Willd.

"Native" (*Flora*). An American species, which has become widely distributed over England, Ireland and Scotland during recent years. *W.E.C.*, 1918-20, p. 118.

2. Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 388.
3. Patch on roadside between Bodmin Road and Bodmin, 1920, Rilstone and Thurston.

**J. inflexus**, Linn.

4. Pond between St. Endellion and St. Minver, 1915, Thurston.
5. Penhallow, Rilstone.

\*Hybrid. **J. effusus** × **inflexus** (*J. diffusus*, Hoppe).

Recorded as a probable error in the *Flora*, but now included.

3. Par Harbour, 1922, Medlin. 5. Crantock Plains, 1914, Vigurs, *B.E.C.*, 1915, p. 283. Carnkief, Perranzabuloe, 1912, Tresidder, *R.I.C.*, 1913, p. 229.

**J. maritimus**, Lam.

3. Several places at Looe; marsh, Watrgate, Trelawney river; reef between Stinkers beach and Aesops near Talland, Mrs. and H. M. M. Perrycoste. Lantivet cliffs, Rilstone. Polmear near Par, Medlin.

\*Var. **atlanticus**, White.

8. Salt-marsh, St. Mary's, Scilly, 1913, J. W. White and E. A. Stideford. Short bract, often only one-quarter to one-sixth of panicle, *B.E.C.*, 1913, p. 499; *Journ. Bot.*, 1914, p. 19; *W.E.C.*,

1913-14, p. 461; 1914-15, p. 510. "Prof. Lindman thought that the specimen sent to him was a monstrosity rather than a true variety; and Mr. R. S. Adamson rather a luxuriant form than a true variety," *B.E.C.*, 1914, p. 27. Mr. White suggests that the name *atlanticus* should be regarded as provisional, till the plant has been compared with specimens of *J. rigidus* in the Rouy Herbarium at Paris, *B.E.C.*, 1914, p. 164.

**J. bulbosus**, Linn. var. **Kochii** (F. Schultz).

7. The Lizard, 1911, Druce, *New Phyt.*, 1911, p. 321.

**J. pygmæus**, Rich (*mutabilis*, Lam).

7. In small quantities on drying mud near Ruan Pool, Marshall, *Journ. Bot.*, 1918, p. 187. Lizard Downs, 1914, Miss M. Cobbe. Damp cart tracks on the Downs between the Lizard and Hayle Kimbro, Miss A. B. Cobbe, *B.E.C.*, 1916, p. 505.

**J. capitatus**, Weigel.

7. St. Martin-in-Meneage, 1919, Tresidder. About four miles north-east of the original locality near Kynance, Miss A. B. Cobbe; recorded as "eight miles east," *B.E.C.*, 1916, p. 505.  
8. In considerable quantity in damp places on cliffs about two miles west of St. Ives, 1919, Downes. Recorded in error as *J. pygmæus*, *Journ. Bot.*, 1919, p. 260.

This species has been found near Rhosneigr, Anglesey, *B.E.C.*, 1918, p. 402.

- \**Luzula albida*, DC. Alien. 3. Near Liskeard, 1913. Miss Cicely Foster, as *Juncoides nemorosum*, Morong, *B.E.C.*, 1913, p. 385.

**L. Forsteri** (DC).

3. "Hessenford" (*Flora*). Abundant on roadside between No Man's Land and Hessenford; lane to Looe dust heaps, 1919, Thurston. Frequent between Par and Luxulyan, Salisbury. Tregrehan near St. Austell, Tresidder.

Hybrid. **L. Forsteri** × **pilosa**.

4. Hustyn Wood, St. Breock, Curnow teste Arthur Bennett, *R.I.C.*, 1911, p. 388.

**L. pilosa**, Willd.

3. Shutta lane, East Looe; Court Wood, Lanreath, Mrs. and H. M. M. Perrycoste.
4. Lane from Burlorne to Hustyn Mill, St. Breock, 1915, Thurston.
6. Arallas, Ladock, 1915, Vigurs.
8. Curthen and Gurlyn Woods near Relubbus four miles E. of Marazion, 1922, Rees.

**L. sylvatica**, Gaud.

1. Week St. Mary; Jacobstow, Tresidder.
3. Golant, Medlin. Railway between Par Sands and St. Blazey, 1917, Miss M. Cobbe.
6. Lamorran Wood, 1913, Thurston.

**L. multiflora**, DC.

3. Roadside near Hessenford, 1919, Rilstone.

Var. **congesta**, Lej.

7. Lizard Downs, 1914, Thurston.

**TYPHACEAE.****Typha latifolia**, Linn.

1. Goscott Mill, Week St. Mary, Tresidder.
3. Large patch in Seaton Marsh, 1915, Mrs. and H. M. M. Perrycoste. Par Harbour, 1920, Medlin.
5. Trewassick, St. Columb Minor, Tresidder.
6. Ennis Farm, Ladock, Tresidder.
7. Loe Pool, 1921, R. L. Smith and W. D. Watson.

**Sparganium neglectum**, Beeby.

3. Trelawne Mill near Looe, 1917, Rilstone.
5. Perranporth, 1911, Davey.
6. Trenerry Wood, St. Allen, Tresidder.

**S. simplex**, Huds.

6. Trenerry Wood, St. Allen, Tresidder.

Var. **longissimum**, Fries.

3. Stream, Helman Tor Moor, 1920, Thurston.

## ARACEÆ.

**Arum italicum**, Mill.

3. Cliff west of Nolland, one and half mile west of Polperro, 1918, W. B. C. Perrycoste.
5. Trevowah and Treago; south of the Gannel, Crantock, Vigurs.

\**Dracunculus vulgaris*, Schott (*Arum Dracunculus*, Linn). Alien. Garden origin. 5. Hedge, Penwortha Coombe near Perranporth, Bunney, *B.E.C.*, 1918, p. 309.

## LEMNACEÆ.

**Lemna trisulca**, Linn.

The first record (*Flora*) should read:—W. P. Cocks in *Polytechnic Report*, 1849, p. 93. He there mentions *Hydra vulgaris* as living on the under surface of the plant in the marsh at Gyllyngvase, Falmouth.

8. Pool, Chy-an-hal Moor, 1921, W. Watson.

## ALISMACEÆ.

**Alisma Plantago-aquatica**, Linn.

3. Marsh, Par, Medlin.
4. Pond between St. Endellion and St. Minver, 1915, Thurston.
6. Swamp, Veryan, 1913, Thurston.
7. Poldhu Valley, 1914, Thurston.
8. Near Madron Well, 1913, Rees.

**A. lanceolatum**, With.

3. Marsh, Par, 1919, Rilstone.
5. Abundant, with *A. Plantago*, on roadside between Perranporth and Bolingey, 1916, Thurston.

“Professor Glück agrees with me . . . in considering that *lanceolatum* is not specifically distinct. *Alisma Plantago-aquatica*, L. var. *latifolium*, Kunth, is an analagous variety on one side, as the variety *lanceolatum* is on the other side of the species.” Druce, *B.E.C.*, 1910, p. 509.



**A. ranunculoides**, Linn (*Echinodorus ranunculoides*, Engelm).

3. Marsh, Par, 1911, Druce, *Journ. Bot.*, 1911, p. 302.
7. Pond near Penhale, Lizard road, 1914, Thurston. Near Lowland Point, Coverack; Kynance, Rev. H. E. Fox, *R.I.C.*, 1911, p. 388.

**\*Forma graminifolius**, Glück.

6. Mabe Reservoir, 1911, Davey, *R.I.C.*, 1913, p. 229.
- Professor Glück examined the specimens, and pronounced them *Echinodorus ranunculoides* (L), Engelm, forma *graminifolius*, Glück = *Alisma ranunculoides*, L, f. *graminifolius*.

**\*Sagittaria sagittifolia**, Linn. Native?

3. Landividdy Hill, Lansallos. A single plant by a secluded spring growing out of the dripping moss on the bank of a runnel, 1918, Rilstone, *B.E.C.*, 1918, p. 403.

**NAIADACEÆ.****Triglochin maritimum**, Linn.

2. Salt-marsh, Shillingham, Hawk, *R.I.C.*, 1911, p. 388.
3. Par Sands, 1917, Miss A. B. Cobbe.
6. Marsh, Ruan Laniorne, 1913, Thurston.
7. Gweek, 1914, Thurston.

**\*Var. exangulare**, Reichb.

5. Penpoll Creek, Gannel, Vigurs, *B.E.C.*, 1915, p. 284.

**Potamogeton natans**, Linn.

3. "Polperro, Couch" (*Flora*). Mr. Perrycoste confirms the record.
5. Pools among sandhills near Perranporth, Rilstone.
6. Trevella, St. Erme; Trenerry Wood, St. Allen, Tresidder.

**P. perfoliatus**, Linn.

7. Lake, Helston town, 1916, Tresidder.

**P. crispus**, Linn.

1. Canal, Bude, 1915, Thurston.

**P. pusillus**, Linn.

3. Starrick Moor, St. Austell, Tresidder.

5. In a rapid stream flowing into Holywell Bay, with long peduncles, 1915, Rilstone. "Here it might be said the stream induces the lengthy peduncles, but longer are produced on a var. of the species on Sable Island off the Canadian coast, where the plant grows in a lagoon." A. Bennett, *B.E.C.*, 1917, p. 252.

Var. **tenuissimus**, Koch.

6. Trenerry Wood, St. Allen, Tresidder.

**P. panormitanus**, Bivona Bernardi (*P. gracilis*, Fries, *P. Nottei*, Ar. Benn, *Journ. Bot.*, 1890, p. 300).

Mr. W. H. Pearsall writes:—"Of herbarium specimens we have seen many of those labelled *P. pusillus* or *trichodes*, and all those under *P. pusillus* var. *tenuissimus*, are this species." *Journ. Bot.*, June, 1921. See also *W.E.C.*, 1920-21, p. 148. *P. panormitanus* is described by Hagström in his *Critical Researches on Potamogeton*, 1916, pp. 98-103. Stipules (ligules of Hagström) connate; gemmæ (turios of H) much smaller and differently formed to those of *P. pusillus*.

**\*P. pectinatus**, Linn. var. **diffusus**, Hagström.

8. Penzance, Herb. Druce, *B.E.C.*, 1919, p. 583.

**Ruppia maritima**, Linn.

3. Salt-water pool, Par beach, 1911, Davey.

**Zannichellia palustris**, Linn.

3. Morval pond near Looe, 1913, Mrs. Sandwith. The other species (*Z. pedunculata*) is recorded in the *Flora* from very near the outlet from the pond.

7. Poltesco, 1920, Downes.

**Zostera nana**, Roth.

3. Dense mass exposed at low tide on bed of Fowey river, St. Winnow, Rilstone and Thurston.

## CYPERACEÆ.

**Cyperus longus**, Linn.

5. Victoria Public Gardens, Newquay. "I expect it is an unique thing for a Public Garden to have an indigenous patch of this plant. There is another patch in the same valley, and there are at least three other patches (one of half an acre) within six miles. Strangely it appears to be very rare in East Cornwall." Vigurs, *B.E.C.*, 1908, p. 401.
6. Giddley Well, Pendower beach, Gerrans Bay, 1913, Thurston.

**Eleocharis multicaulis**, Sm

3. Bogs N.E. of Bolventor, 1921, H. S. Thompson. Sand-place, 1913, Mrs. Sandwith.
6. Marsh between Truro and Callestick, 1919, Rilstone.

**Scirpus pauciflorus**, Lightf.

5. Trebiskan Moor, Cubert. Plenty near south end of plank causeway with *S. compressus*, 1914, Vigurs.
7. Grade, 1914, Miss M. Cobbe.

**S. fluitans**, Linn.

7. Goonhilly Downs; Polkerris Moor, 1914, Thurston.
8. Mogezaal (Nanjizal?) Bay, by the stream thereto, Rev. H. E. Fox.

**S. filiformis**, Savi.

5. Perranporth, 1915, Thurston.

Var. **monostachys**, Clarke & Marshall.

5. Pollywin, Colan, Vigurs.

**S. setaceus**, Linn.

3. Trenean Marsh near Hessenford, 1914, Mrs. and H. M. M. Perrycoste. Prideaux near St. Blazey, Medlin.
5. Pollywin, Colan, Vigurs.

**S. Tabernæmontani**, Gmel.

3. Marsh, Sandplace, Rilstone. Pond, Morval park, Mrs. and H. M. M. Perrycoste.



**S. maritimus**, Linn.

1. Week St. Mary, Tresidder.
6. Marsh, Ruan Laniorne, 1913, Thurston.

Var **conglobatus**, Gray.

5. Trenance Valley, Vigurs.

Var. **conglobatus**, Gray. and var. **monostachys**, Sonder.

3. Par Sands, Miss A. B. Cobbe and F. Rilstone.
5. Dennis Cove, Padstow, 1918, Thurston.

**S. sylvaticus**, Linn.

1. Trefrouse Mill, Week St. Mary, 1917, Tresidder.

**S. compressus**, Pers.

5. "Perranporth" (*Flora*). Marsh near Perranporth, Rilstone, *B.E.C.*, 1915, p. 378.

\*Var. **erectus**, Uechtr.

5. Perranporth, Rilstone. "This gradually merges into the type." *B.E.C.*, 1919, p. 583.

**Eriophorum vaginatum**, Linn.

2. Between Trewartha and Hawke Tor, 1920, E. Thompson.
4. Crowdy Marsh between Brown Willy and Davidstow, Wise. Roche Holy Well, one plant, 1912, Vigurs.

**Rynchospora alba**, Vahl.

1. Badgall Down, Laneast, Reid, *R.I.C.*, 1911, p. 388.
5. Music Water, St. Ervan, 1911, Miss Spettigue. Wheal Butson, St. Agnes, 1911, Rilstone.

**Schœnus nigricans**, Linn.

3. Starrick Moor, St. Austell, Medlin.
5. Wheal Butson, St. Agnes, 1911, Rilstone.

**Carex dioica**, Linn.

3. "Marsh near Polperro, Couch" (*Flora*). Not found by the Perrycostes.

**C. divisa**, Huds.

3. Patch at Seaton Estuary, 1919, Thurston and Rilstone.



**C. disticha**, Huds.

4. "St. Minver" (*Flora*). Marsh, Polzeath, 1915, Thurston.

**C. arenaria**, Linn.

1. Launceston railway station. Shown to E. Thurston by W. Wise, 1915.  
 5. Perranporth sandhills. "All have a few female flowers in the upper spike, and this appears to be the general rule in Cornish plants of *C. arenaria*." Davey, *W.E.C.*, 1911-12, p. 363.  
 7. Kennack Sands; Poldhu Cove, 1914, Thurston.

**C. paniculata**, Linn.

1. Wooded hollow E. of Week St. Mary, 1915, Thurston.  
 3. Trelawney Mill, 1912; Freshwater near Polperro; Watergate between Polperro and Pelynt, 1912; Court Wood Marsh, Lanreath, Mrs. and H. M. M. Perrycoste.  
 6. Mylor Bridge, Mrs. and H. M. M. Perrycoste.  
 7. Gweek Wood; Carminowe Creek, Loe Pool, 1914, Thurston.  
 8. St. Mary's, Scilly, 1922, Downes.

Forma **simplicior**, And. (var. *simplex*, Gray).

3. Tregorrick near St. Austell, 1920, Tresidder.

**C. vulpina**, Linn.

6. Goss Moor; beach, Portscatho, 1913, Thurston. Chyvogoe, Perran-ar-worthal, 1911, Davey. Devoran, 1917, Miss M. Cobbe.  
 7. Kennack, Tresidder.  
 8. Lamorna, 1911, Davey.

\*Hybrid. **C. paniculata** × **vulpina** (× *Boenninghausiana*, Weihe).

8. Penzance, 1878, Curnow in Herb. Piquet, *B.E.C.*, 1920, p. 156.

The hybrid *Boenninghausiana*, Weihe, is usually understood to be *C. paniculata* × *remota*.

**C. contigua**, Hoppe (*C. muricata*, auct. angl; *C. muricata*, subsp. *macrocarpa*, Neuman).

3. Pleaton, Polperro, 1911, Mrs. and H. M. M. Perrycoste. Boscoppa, Tresidder.

5. Sunny Corner, Padstow, 1911, Miss Spettigue. St. Agnes, 1913, Rilstone.
7. Kestle near Helford, 1920, Tresidder.
8. Rinsey near Porthleven, Tresidder. Wall, Penzance, 1921, Thurston.

**C. muricata**, Linn (*C. muricata*, Linn. sub-sp. *microcarpa*, Neuman; *C. Pairæi*, F. Schultz).

3. Cliff path, East Looe, 1918, Rilstone.
7. Abundant on dry roadside banks just south of Mullion, Marshall, *Journ. Bot.*, 1918, p. 187; *B.E.C.*, 1917, p. 253.

\*Var. **Leersii** (F. Schultz).

7. Grassy ground by Loe Pool near Penrose Creek, as *C. Leersii*. Marshall, *Journ. Bot.*, 1918, p. 187.

**C. divulsa**, Stokes.

3. Cliff path, East Looe, 1916, Rilstone. Ballast-heap, Charles-town, 1921, Tresidder.
5. Waste ground by roadside. Lambourne Hill, Perranzabuloe, 1920, Rilstone, *B.E.C.*, 1920, p. 254.

**C. remota**, Linn.

3. Portlooe near West Looe, Miss C. Grigg.
5. St. Columb, 1911, Miss Spettigue.
7. Gweek Wood, 1914, Miss M. Cobbe. Garden, Mawnan Sanctuary, 1914, Thurston.

**C. canescens**, Lois.

7. "Near the Lizard, 1886" (*Flora*). Pool, Lizard Downs, 1917, Marshall, *W.E.C.*, 1917-18, p. 83.

**C. leporina**, Linn.

3. Trelawney river; Talland, Mrs. and H. M. M. Perrycoste.
5. St. Agnes, Rilstone. Penponds, Camborne, 1916, Bunney.
7. Gunwalloe, 1916, Smith-Pearse.

**C. elata**, All.

7. Polurrian Marsh, 1920, Downes.

**C. Goodenowii**, Gay. var. **recta**, Asch. & Graeb.

4. Castle Killibury, 1913, Vigurs.

\*Var. **chlorostachya**, Asch.

7. Lizard, a very obese form, Lady Davy, *B.E.C.*, 1916, p. 507.

**C. flacca**, Schreb.

"Nowhere abundant" (*Flora*). By far the commonest sedge round Newquay, Vigurs.

**C. pallescens**, Linn.

1. Trewince Wood, Week St. Mary, 1917, Tresidder.
4. St. Kew, 1918, Tresidder.

**C. pendula**, Huds.

1. Stratton, Tresidder.
3. Longcoombe, Polperro, Mrs. and H. M. M. Perrycoste. Bridge, Lerryn; cultivated in a neighbouring garden, 1920, Harvey.

**C. sylvatica**, Huds.

1. Abundant at Week St. Mary, Tresidder. Stream, Millook, 1915, Thurston.
3. Portlooe near West Looe, Miss C. Grigg. Talland end of Bridle Lane, opposite Trelawne Lodge, Mrs. and H. M. M. Perrycoste. Doublebois, 1916; Lerryn, Rilstone.
5. Mawgan, 1912, Vigurs.
6. Tredrea, Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 388.
7. Gweek Wood, 1914, Thurston. Trelowarren, Tresidder.

**C. helodes**, Link.

2. By tributary of the Lynher, 1919, H. S. Thompson, *W.E.C.*, 1918-20, p. 123.
3. Longcoombe, and Reservoir Marsh, Polperro; Court Wood, Lanreath, Mrs. and H. M. M. Perrycoste.
6. Tresillian, 1915, Vigurs.
7. A slender form with smaller spikelets and fruit than usual, simulating *C. distans* in habit, in a marsh between Gunwalloe and Cury, Marshall, *Journ. Bot.*, 1918, p. 187.

**C. binervis**, Sm.

2. Moor, Hawk's Tor. Shown to E. Thurston by W. Wise, 1915.
3. Near foot of Trelawney Hill, Mrs. and H. M. M. Perrycoste.
7. Black Rock, Crowan, Tresidder, *R.I.C.*, 1911, p. 388.

**C. punctata**, Gaud.

3. Freshwater near Polperro, 1914, Mrs. and H. M. M. Perry-coste. This has disappeared from Westcombe's locality (*Flora*), but has been found in considerable quantity close by near Charlestown, Tresidder.

**C. fulva**, Host.

5. Mother Ivey's Bay near Trevoise Head, 1911, Miss Spettigue. Payne's Well, Perranzabuloe, 1912, Tresidder. Carnkief and Ventongimps Moor, Perranzabuloe, Rilstone, *B.E.C.*, 1915, p. 381.

\*Hybrid. **C. flava** × **fulva** (*xanthocarpa*, Dégl).

5. Railway cutting below Goonhavern, 1914, Tresidder. Plants sent by Mr. Rilstone from Ventongimps Moor were variously determined as follows:—"Sterile hybrids (of *fulva*) with *C. Oederi*, sub-sp. *ædocarpa*, E. S. Marshall. I think this is Syme's *fulva*, Good. var. *sterilis*, A. Bennett. This is *flava* × *fulva* = *xanthocarpa*. G. C. Druce," *B.E.C.*, 1915, p. 381.

**C. extensa**, Good.

3. Marsh by Trelawney river, Mrs. and H. M. M. Perry-coste. Par Sands, 1917, Miss A. B. Cobbe.

**C. Oederi**, Retz.

7. Downs near Ruan Major; Mullion Cove, 1914, Thurston. Kükenthal's description of the three species, *C. flava*, *L. C. lepidocarpa*, Tausch, and *C. Oederi*, Retz., is recorded in *B.E.C.*, 1910, p. 510.

**C. hirta**, Linn.

3. Crinnis, Medlin.  
5. Stream, Harlyn Bay, 1918, Thurston.  
6. Budock Bottoms, 1917, Thurston.  
7. Ruan Minor, 1914, Miss A. B. Cobbe.

\*Var. **spinosa**, Mort.

6. Falmouth Docks, 1917, Miss M. Cobbe.



**C. acutiformis**, Ehrh.

1. " Bude canal by the last lock near the sea, W. M. Rogers" (*Flora*). Mr. Moyle Rogers' specimens, which have been re-examined by Mr. Arthur Bennett, should be referred to *C. riparia*.
3. Longcoombe, Polperro, Mrs. and H. M. M. Perrycoste.

**C. riparia**, Curt.

3. Trelawney Marsh, Polperro, F. H. Perrycoste.
8. Scilly Isles, 1912, Miss C. Vivian.

\*Var. **gracilis**, Coss. & Germ. (*subgracilescens*, Kük).

7. Gunwalloe Marsh, one plant, 1914, Thurston. See note by W. B. Turrill, *Kew Bull.*, 1920, No. 4, pp. 141-2, reprinted in *B.E.C.*, 1920, p. 52.

"Tiges presque lisses sur les angles. Feuilles souvent vertes. Epis mâles solitaires ou géminés. Epis femelles laxiflores, longuement pédonculés, souvent pendants. Utricles longuement dépassés par les écailles. Écailles très longuement cuspidées aristées." Coss. et Germ., *Flore de Paris*, 1845, p. 605. A specimen in the Kew Herbarium from the Isle of Wight (*Flora Vectensis*, 1856, p. 575) has long peduncles to the female spikes, and acuminate glumes longer than the utricles. It has also been found at Tickenham Moor, Somerset (*B.E.C.*, 1915, p. 379).

**C. inflata**, Huds.

1. Goscott Moor, Week St. Mary, Tresidder.
3. "Trelawney Marsh, Polperro" (*Flora*). The record refers to *C. riparia*, F. H. Perrycoste. Starrick Moor, St. Austell, Tresidder.
5. Rejerrah, Newlyn East, 1916, Thurston.

**GRAMINEÆ.**

*Panicum Crus-galli*, Linn. 3. Looe, 1917, Rilstone.

6. "Malpas" (*Flora*). Waste ground outside Boscawen Park, Truro, 1922, Arnett.

*P. miliaceum*, Linn. 3. Looe dust-heaps, 1918, Thurston. Par, 1911, Vigurs.

*P. Ischæmum*, Schreb. Garden weed, Mullion, Perry, *B.E.C.*, 1920, p. 157.

***Setaria viridis*, Beauv.**

3. Looe dust-heaps, 1916-17, Mrs. and H. M. M. Perrycoste. Garden weed, East Looe, 1918, Thurston. "Par, 1903" (*Flora*). Many plants at Par Harbour, 1922, Medlin.
5. Cultivated field, Phillack, 1915, Rees.
6. Waste-ground between Truro and Malpas, 1914, Miss M. Cobbe, *B.E.C.*, 1916, p. 508.

*S. verticillata*, Beauv. 3. Weed in Mr. Perrycoste's garden, Polperro, 1910.

***Phalaris canariensis*, Linn.**

5. Roadside, Trevone near Padstow, 1918, Thurston.

*P. paradoxa*, Linn. 3. Railway embankment, Par Sands, 1920, Medlin, *B.E.C.*, 1920, p. 157.

***P. arundinacea*, Linn.**

3. Polperro, Rilstone; Mrs. and H. M. M. Perrycoste.
5. Tall plants in stream, Public Gardens, Newquay, 1922, Thurston. Penwortha, Perranzabuloe, 1916, Bunney.

***Alopecurus myosuroides*, Huds.**

3. Looe dust-heaps, Mrs. and H. M. M. Perrycoste. Ballast-heap, Charlestown, Tresidder.

***A. geniculatus*, Linn.**

3. Longcoombe, Polperro, Mrs. and H. M. M. Perrycoste. Biscovey, Medlin.
6. Marsh west of Polgrain near Port Holland, 1913, Thurston.

***A. bulbosus*, Gouan.**

7. Single plant in garden grass, Coverack, Rev. H. E. Fox, *R.I.C.*, 1911, p. 388.

***A. pratensis*, Linn.**

2. Kernock, Pillaton, Hawk, *R.I.C.*, 1911, p. 389.
3. Par, Medlin.
5. Penwortha, Perranzabuloe, 1916, Bunney.

**Phleum arenarium**, Linn.

3. Par Harbour, 1917, Miss M. Cobbe.

**\*Mibora minima**, Desv. Casual.

3. On a sand-heap, Par, 1910, Davey, *R.I.C.*, 1911, p. 389.

**Agrostis canina**, Linn.

5. Ventongimps, Rilstone.

**\*Var. pallida**, Reichb.

5. Shady bank, Gollawater, between Penhallow and Mithian, 1921, Rilstone.

**A. alba**, Linn. (*A. stolonifera*, Linn), forma *spiculis coloratis*.

3. Wall, Lostwithiel, 1920, Thurston.

Dr. Stapf writes to me :—"The forms of *A. stolonifera*, which include what is commonly called *A. alba*, seem to be extremely variable, by which I mean that they are responsive to conditions of soil, water available, light, etc., and appear frequently under a variety of forms, often of rather different aspect. If you could form a representative collection of these 'varieties' as they occur in Cornwall, and state on the labels under what conditions they were found growing, you would help us to understand this embarrassing lot." E. Thurston.

**Var. maritima**, Koch.

3. "Par, Druce" (*Flora*). Par Sands, 1920, Medlin.  
5. Wall, Padstow, 1918, Thurston.

**\*Var. major**, Gaud (*gigantea*, Koch).

5. Field, Lambourne, Perranzabuloe, 1921, Rilstone. (ad var. *giganteam* vergens).

**Var. prorepens**, Koch.

8. Wall, Penzance, 1921, Thurston.

**A. nigra**, With.

5. Lambourne, Perranzabuloe, Rilstone.

**\*A. verticillata**, Vill. Casual.

3. Ballast-heap. Charlestown, Tresidder.

6. First noticed at Falmouth Docks in 1907; there in considerable quantity in 1910, Davey, *B.E.C.*, 1911, p. 55; *R.I.C.*, 1911, p. 389.

**Polypogon monspeliensis**, Desf.

3. "Par, Tellam" (*Flora*). Par Harbour, 1917, Miss M. Cobbe. Ballast-heap, Charlestown, Tresidder.  
5. Old mine-heap, St. Agnes, Rilstone.

**Calamagrostis epigeios**, Roth.

8. Considerable quantity on top of the Great Gannick, Scilly, 1913, White, *Journ. Bot.*, 1914, p. 19.

**Gastridium lendigerum**, Gaud. (*G. ventricosum* (Gouan) Thellung)

3. Sand Hill above Talland, 1912, not seen since, Mrs. and H. M. M. Perrycoste.  
5. "Padstow, Tellam" (*Flora*). Cornfield near the coast, Padstow, 1920, Smith-Pearse.  
6. Trevella, St. Erme, Tresidder. Falmouth Docks, 1914, Miss M. Cobbe.  
8. Old Town, St. Mary's, Scilly, 1922, Downes.

**Ammophila arenaria**, Link.

3. Par Sands, Mrs. and H. M. M. Perrycoste. Crinnis beach, Medlin.

**Deschampsia flexuosa**, Trin.

3. Sharp Tor near Linkinhorne, Rilstone.

**Trisetum flavescens**, Beauv.

3. Between Seaton and Millandreath beach, Mrs. and H. M. M. Perrycoste.  
6. Perran-ar-worthal, Davey, *R.I.C.*, 1911, p. 389.

**Avena strigosa**, Schreb.

3. Par Harbour, 1919, Thurston.  
5. St. Agnes, Rilstone.

**A. fatua**, Linn.

5. Lambourne, Perranzabuloe, 1912, Rilstone.



\**A. sativa*, Linn. var. *Brunner*, Koern. Alien. 7. Lizard, Druce, *B.E.C.*, 1910, p. 511.

\**Gaudinia fragilis*, Beauv. Alien. Mediterranean. 3. Ballast-heap, Charlestown, Tresidder, *B.E.C.*, 1913, p. 397.

\**Arrhenatherum elatius*, Mert. & Koch. var. *pauciflorum*, Druce. 3. Par Harbour, 1922, Medlin.

***Cynodon Dactylon*, Pers.**

3. Par, 1911, J. Groves, Davey, and Vigurs. Par Harbour, 1921, Medlin.

8. "Sandy shores between Pensans and Market Jew, Ray" (*Flora*). Plentiful on the shingle, and also on the roadside between Penzance and Marazion, where it formed the turf for a considerable distance, Vigurs, *B.E.C.*, 1910, p. 605. Has spread to near the railway embankment near Hayle, 1915, Rees.

***Phragmites communis*, Trin.**

3. Morval Park near Looe, 1918, Thurston. Damp spot on cliff face, Lantivet, Rilstone.

5. Pencorse Moor, St. Enoder, Tresidder, *R.I.C.*, 1911, p. 389.

6. Near Paradoe Cove, Gerrans Bay, 1913, Thurston.

7. Loe Valley, 1914, Thurston.

8. Pra Valley, Davey.

\*Var. *flavescens*, Cust.

3. Hannafore beach, Looe, 1919; "Lantia Bay," Rilstone, *B.E.C.*, 1915, p. 217. For Lantia read Lantivet.

***Cynosurus echinatus*, Linn.**

3. Par Harbour, 1914, Vigurs. Harbour, and railway near Par Sands, 1917, Miss M. Cobbe, *B.E.C.*, 1917, p. 134.

5. Field, Perranzabuloe, about 1915, Rilstone.

***Koeleria gracilis*, Pers. var. *britannica*, Domin.**

3. Par Harbour, Medlin.

5. Lambourne Hill, Perranzabuloe, Rilstone. Rose Hill near Perranporth, Tresidder.

8. St. Mary's, Scilly, 1922, Downes.

\*Sub-var. *glabriflora*, Domin.

5. East Pentire, Newquay, Vigurs, *R.I.C.*, 1913, p. 229.

**Molinia cœrulea**, Moench, var. **depauperata** (Lindl).

3. Roadside bank, Kiln Wood near Trelawney Mill, growing with the type, 1919, Thurston.

**Catabrosa aquatica**, Beauv.

5. Mother Ivey's Bay near Trevoise Head, 1911, Miss Spettigue.

**Melica nutans**, Linn.

2. Entrance of first bridge, G.W.R., from St. Germans to Saltash, and between Polbathick and Trewin quarry, 1919, Harvey.  
 3. Trelawney river, Mrs. and H. M. M. Perrycoste. Restormel road, Lostwithiel, 1915, Thurston.  
 4. Lane between Burlorne and Hustyn Mill, St. Breock, 1915, Thurston.

**Dactylis glomerata**, Linn. forma **vivipara**.

3. Millbrook, 1920, Harvey. Restormel road, Lostwithiel, 1920, Medlin.

**Briza maxima**, Linn. 6. Garden weed, Roscarrack near Budock, 1917, Miss M. Cobbe. 8. Roadside, St. Mary's, Scilly, 1922, Downes.**B. minor**, Linn.

5. Penhallow; Ventongimps, Rilstone. Carwin Moor, Hayle, 1919, Rees.  
 6. Cornfield, Veryan, 1913, Thurston.  
 7. Oatfield near Cadgwith, 1913, White, *B.E.C.*, 1913, p. 510; 1919, p. 846. Mullion, 1914, Thurston.

**Poa annua**, Linn.

8. Abundant, with purple spikelets, on eastern sands, Penzance, and exposed walls between Penzance and Newlyn, W. Watson. The vivid colouration of the spikelets is, Dr. Stapf points out, no doubt due to a relative excess of sunlight. It should not be confused with the perennial *P. annua*, var. *varia*, Gaud. mainly of mountains (Scotland, etc.), which is distinguishable by its duration, more flaccid panicles, and mostly larger and blunter spikelets, which are normally and strikingly tinged with violet.

**P. nemoralis**, Linn.

4. Roadside, Little Petherick, 1918, Thurston.

\*Var. **vulgaris**, Gaud. forma **colorata**.

6. Perran-ar-worthal, 1911, Davey, *W.E.C.*, 1911-12, p. 367.

**P. compressa**, Linn.

2. "Wall at Tideford" (*Flora*). Marsh, Tideford, 1919, Rilstone.  
 3. Crumplehorn bridge, Polperro, Rilstone. Railway-bank, Polmear near Par, Medlin.  
 4. Martyn's yard, Wadebridge, 1918, Rilstone. Roadside near Little Petherick, 1918, Thurston.  
 6. Waste ground outside Boscawen Park, Truro, 1922, Arnett. "Wall top near Falmouth Station" (*Flora*). Wall near Gyllyngvase, Falmouth, 1917, Miss M. Cobbe.

\***P. palustris**, Linn. Casual.

3. Par and Par Harbour, 1917, Miss M. Cobbe.

**Glyceria maritima**, Mert. and Koch.

3. "Coast near Polperro, T. Q. Couch" (*Flora*). Not found there by the Perrycostes. Par Sands, 1920, Thurston and Downes.

**G. rupestris**, E. S. Marshall.

6. Waste-ground between Truro and Malpas, 1914 and 1917, and along river-bank between Boscawen Park and Truro, Miss M. Cobbe.

\***Atropis festuciformis**, Richt.

4. Egloshayle Marsh, on bank of a water channel, 1918, Thurston.

The recent history of this plant as a British one is very interesting. On the strength of specimens from Ireland it was for some time accepted as British, but, in *B.E.C.*, 1917, pp. 57-61, Mr. Druce writes:—"Both Dr. Rendle and Dr. Stapf, I believe, now agree that the true *festuciformis* has not been found in the British Isles." Curiously, before this was published, Mr. Thurston had found the real plant, and it had been named by Dr. Stapf. Dr. Rendle writes to me, May 20, 1920, saying:—"Dr. Stapf considers this to be the same as the typically Adriatic grass, and different from the Irish specimens formerly named *G. festucæformis*. I am content to leave the matter there, at any rate for the present." C. C. Vigurs. The Egloshayle plants are recorded as *Glyceria maritima*, Wahl. var. *hibernica*, Druce, in *B.E.C.*, 1919, p. 690.

**Festuca Myuros**, Linn.

3. "Par, 1901-5" (*Flora*). Still there in 1917, Miss M. Cobbe.
6. "Falmouth" (*Flora*). Falmouth Docks, 1917, Miss M. Cobbe.
7. Cadgwith, 1911, Miss M. Cobbe.

**F. bromoides**, Linn.

1. Tamerton, 1918, Harvey.
5. Little Callestick, Perranzabuloe, 1916, Thurston.
6. Pendower beach, Gerrans Bay, 1913, Thurston.

**F. ovina**, Linn. var. **duriuscula**, Hackel.

5. Padstow, 1918, Thurston.

**F. rubra**, Linn. forma with glabrous sheaths.

3. Par Harbour, 1920, Thurston.

Var. **arenaria**, Fr.

5. The common form by the sea, Newquay, Vigurs.
7. Mullion Cove, 1914, Thurston.

Var. **dumetorum**, Linn.

3. Par Harbour, 1921, Medlin.

**F. pratensis**, Huds.

7. Gunwalloe Marsh, Marshall, *Journ. Bot.*, 1918, p. 187.

**F. elatior**, Linn. var. **arundinacea**, Schreb.

1. Rocky Valley near Tintagel, 1915, Thurston.
6. Near Pendower beach, Perrans Bay, 1913, Thurston.

**Bromus giganteus**, Linn.

3. Roadside between Looe and Sandplace, 1919, Thurston.  
New Road, Looe, Rilstone; Mrs. and H. M. M. Perrycoste.

Var. **triflorus**, Syme.

6. Tredrea, Perran-ar-worthal, Davey. *R.I.C.*, 1911, p. 389.  
Cosawes Wood, Ponsanooth, 1917, Rilstone.

**B. ramosus**, Huds.

1. Banks of the Tamar, Wise.
3. "Polperro" (*Flora*). Looe-Polperro road, Rilstone.



*B. uniolooides* (H. B. & K). 3. "Casual at Par, 1905-7" (*Flora*). Par Harbour, 1921, Medlin. 6. "Malpas Road, Truro, 1907, W. Borlase" (*Flora*). Waste-ground outside Boscawen Park, Truro, 1922, Borlase. 8. Roadside, Old Town, St. Mary's, Scilly, 1922, Downes.

*B. madritensis*, Linn.

3. "Par" (*Flora*). Par Harbour, 1917, Miss M. Cobbe.

*B. tectorum*, Linn. 5. In some quantity, waste ground, Newquay, 1911, Druce, *Journ. Bot.*, 1911, p. 302; *B.E.C.*, 1911, p. 55-6.

6. "Falmouth Docks" (*Flora*). Seen there in 1914 and 1917, Miss M. Cobbe, *B.E.C.*, 1916, p. 509.

\**B. inermis*, Leysser. Alien. 5. Growing well in a bunker on Newquay golf-links, Vigurs, *R.I.C.*, 1913, p. 226.

*B. maximus*, Desf.

3. Par Sands, 1911, Vigurs, *B.E.C.*, 1911, p. 143. Field, Charlestown, 1917, Tresidder.

*B. secalinus*, Linn.

1. St. Clether, 1908, Harvey.

3. Roadside field, Looe-Polperro road, opposite Barcelona, 1919; "Par" (*Flora*). Par Harbour, 1919, Rilstone.

\**B. hordeaceus*, Linn. forma with glabrous sheaths.

3. Field between Lostwithiel and Lerryn, 1920, Thurston.

\*Var. *leptostachys*, Beck.

8. Cultivated ground, St. Mary's, Scilly, 1922, Downes.

\**Lolium perenne*, Linn. var. *compressum*, Sibth.

A form with shortened internodes, which may be classed as a monstrosity rather than a variety, *B.E.C.*, 1915, p. 389.

3. Field between Looe and Polperro, 1919, Thurston.

6. Path from beach to Mylor Churchyard, 1917, Rilstone. Public garden, Greenbank, Falmouth, 1917, Thurston. Roscarrack near Budock, 1917, Miss M. Cobbe.

\*Var. *compositum*, Sm.

3. Trenovissick Farm, Par; Pentewan, 1922, Medlin.

\*Var. **sphærostachyum**, Masters.

3. Tywardreath, 1917, Miss A. B. Cobbe, *B.E.C.*, 1917, p. 135.

**L. temulentum**, Linn. var. **arvense** (With).

6. Roscarrack near Budock, 1917, Miss M. Cobbe.

\***Agropyron repens**, Beauv. var. **glaucum**, Doell.

3. Par, 1913, Vigurs.  
5. Gannel river, 1915, Vigurs.

\*Forma **trichorachis**, Rohlend.

5. A tuft at Fistral beach, Newquay, tall and strong, with very broad leaves and a markedly hairy rachis, Vigurs, *R.I.C.*, 1913, p. 289; *B.E.C.*, 1913, p. 514.

**A. pungens**, Roem. & Schult.

1. Waste-patch, Bude, 1915, Thurston.  
4. "St. Minver" (*Flora*). Rock Sandhills, 1915, Thurston.  
5. Harlyn Bay, Miss C. E. Larter, *R.I.C.*, 1911, p. 389.  
8. Pra Sands, 1911, Davey.

**Lepturus filiformis**, Trin.

3. Watergate end of Trelawney salt-marsh, 1916; Polmear end of Par Sands, 1914, Mrs. and H. M. M. Perrycoste. Par Harbour by the Beaver Mill, 1922, Medlin. Charlestown, 1915, Tresidder.  
5. Sunny Corner, Padstow, 1911, Miss Spettigue. Dennis Cove, Padstow, 1918, Thurston.

**Nardus stricta**, Linn.

2. Moor, Hawks Tor, Wise.  
3. Starrick Moor, St. Austell, Medlin.

**Hordeum murinum**, Linn.

3. Church end, Looe, and adjacent cliff, 1911 et sq, Mrs. and H. M. M. Perrycoste. Charlestown, Tresidder.  
4. Rock, St. Minver, 1915, Thurston.  
6. Portscatho. 1913, Thurston.

\**H. jubatum*, Linn. Alien. N. America. 6. Waste-ground outside Boscawen Park, Truro, 1922, Borlase.

- \**H. distichon*, Linn. Alien. 3. Looe dust-heaps, 1918. 6. Falmouth Docks, 1917, Thurston.

***Elymus arenarius*, Linn.**

5. Planted in a bunker on Newquay golf-links, Vigurs, *R.I.C.*, 1913, p. 226. Several clumps from Hunstanton planted on the Perranporth sandhills as food for larvæ by Mr. W. A. Rollason in 1910.

**FILICES.**

***Hymenophyllum tunbridgense*, Sm.**

1. Near Five Lanes, Altarnun, Wilson L. Fox, *R.I.C.*, 1911, p. 389.  
 3. "Fowey river below Dreynes Bridge" (*Flora*). The same spot as "Golitha Falls, river Fowey, 1919, only on the vertical granite, not on the boulders strewn below," H. S. Thompson, *W.E.C.*, 1918-20, p. 126.  
 4. De Lank Bridge, 1908, Harvey.

***H. peltatum*, Desv.**

- The first record (*Flora*) should read:—On authority of Miss Rodd in *Loudon Gard. Mag.*, 1835, pp. 694-5, in report of meeting of Royal Hort. Soc., Cornwall.  
 3. Kilmar Ridge, 1920, Harvey.

***Adiantum Capillus-Veneris*, Linn.**

5. Newquay, 1911, Davey.  
 6. Camel Cove, Veryan Bay, very luxuriant, 1913, Thurston.

\****Pteris aquilina*, Linn. var. *lanuginosa* (Bory ex. Willd. Sp. Pl. V, p. 403) Hook.**

- "Probably the common British form. Under side of pinnæ lanuginose," Druce, *B.E.C.*, 1912, p. 185.  
 3. Bodmin, Druce, *loc. cit.*  
 5. Common round Newquay, Vigurs.  
 7. Lizard, Druce, *loc. cit.*

***Asplenium lanceolatum*, Huds.**

3. Wall on road from Minions to Upton, and wall at Upton; Henwood. 1920. Harvey. Cardinham church wall, 1920, May. Saint's Hill and Longcombe. Polperro. Mrs. and H. M. M. Perrycoste. Wall. Helman Tor Moor, 1920, Rilstone. Trenarren near Pentewan, Tresidder.

8. Ludgvan, 1915, Miss Waterer. Roadside between Newlyn and Paul, 1921, W. Watson.

\*Hybrid. **A. Adiantum nigrum** × **maritimum**.

7. A supposed hybrid was seen by members of the Phytogeographical Expedition at the Lizard, *New Phyt.*, 1911, p. 323.

**A. marinum**, Linn.

The first record (*Flora*) should read:—*Chamæfilix marina* Anglica. Non nisi saxorum rupiumve interveniis aut petrosis asperginibus Cornubiæ innatam reperi ad maris alluviones non procul ab ædibus generosi viri D. Muyle. Lobel, *Plantarum seu-Stirpium Historia*, 1576, p. 474.

**A. Ruta-muraria**, Linn.

3. Wall at Bodega near Millandreath, Mrs. and H. M. M. Perrycoste. West Looe, Rilstone. London Apprentice, St. Austell, Tresidder.
7. School-house wall, Ruan Minor, Rev. H. E. Fox, *R.I.C.*, 1911, p. 389.

**Ceterach officinarum**, Willd.

3. Walls near Cheesewring, 1920, Harvey. Wall at Shutta, East Looe, Miss C. Grigg. Near St. Veep, Rilstone.
4. Camel quarry near Wadebridge, Tresidder.

**Polystichum aculeatum**, Roth.

2. Tokenbury between Pensilva and Upton, 1919, H. S. Thompson.
5. "Newquay, Vigurs" (*Flora*). Delete the record.
8. Ludgvan; hedge between Ludgvan and Gulval; lane between Tredavoë and Newlyn, 1913, Miss A. B. Cobbe. Gurlyn Woods near Relubbus 4 miles E. of Marazion; near Madron, 1922, Rees.

**P. angulare**, Presl.

2. Tokenbury between Pensilva and Upton, 1919, H. S. Thompson.
7. Manaccan, Rev. H. E. Fox, *R.I.C.*, 1911, p. 389.
8. Gurlyn Woods near Relubbus 4 miles E. of Marazion; near Madron, 1922, Rees.



Forms collected by Mr. Tresidder in Chyverton Wood, Perranzabuloe, were described in *B.E.C.*, 1917, p. 63 as being "almost without doubt hybrid of these species. They have the pinnæ and stalk as in *aculeatum*, but the toothing and texture of *angulare-setiferum*, Woynar." A series of these ferns has recently been submitted to Dr. F. N. Stansfield, who identified them as being (a) *P. aculeatum*, type and thin foliose form, approximating somewhat to *angulare*; (b) *P. angulare*, type and sub-cuspedate form.

**Lastrea montana**, T. Moore.

1. Wood near Egloskerry. Shown to E. Thurston by W. Wise, 1915.
3. Abundant in valley from Minions to Upton, 1920, Harvey
5. "Newquay, Vigurs" (*Flora*). Delete the record.

\***L. Filix-mas**, Presl (*Dryopteris Filix-mas*, Scholt. var. *cristata* (Moore).

3. Polperro, Rilstone, *B.E.C.*, 1916, p. 510. A very foliose form at Bodmin Road Station, 1921, Harvey. A specimen in Cun-  
nack's collection of Ferns is labelled Charlestown.

**Ophioglossum vulgatum**, Linn.

3. Cliff, Port Nadler near Looe, Mrs. A. Peter.

**Botrychium Lunaria**, Sw.

3. Roche railway station, 1920, Taylor.

## EQUISETACEÆ.

**Equisetum sylvaticum**, Linn.

1. Gathered in Rogers' locality (*Flora*), Week St. Mary, 1917; between Ashbury and Berry Court, Jacobstow, one plant, Tresidder.

**E. limosum**, Linn.

3. Marsh below Sowden's Bridge, Trelawney river, Mrs. and H. M. M. Perrycoste.
7. Poldhu Valley; Loe Valley, 1914, Thurston.

**LYCOPODIACEÆ.****Lycopodium Selago**, Linn.

1. Badgall Down, Laneast, Reid, *R.I.C.*, 1911, p. 389.

**L. inundatum**, Linn.

5. Silverwell Moor, 1918, Rilstone.

**L. clavatum**, Linn.

3. Bog near ponds above Wardbrook Farm, Cheesewring, 1919, Rilstone.
6. Curyan near Nanpean, 1916, Tresidder.

**SELAGINELLACEÆ.**

- \**Selaginella Kraussiana*. A. Br. Alien. 5. Camborne, an escape, Tresidder, *B.E.C.*, 1917, p. 137.

- \**S. denticulata*, Link. Alien. 7. Growing freely in a small orchard south of Landewednack Church, and apparently quite established, 1920, Downes.

\***Isoetes hystrix**, Durieu.

7. A single plant gathered in Caerthillian Valley, June, 1919, by Mr. F. Robinson. "Hitherto unknown in England, growing with *Trifolium strictum* and *Trifolium Bocconi*." *Journ. Bot.*, 1919, p. 322. Microscopical examination shows that it is undoubtedly the same as the Guernsey one." *B.E.C.*, 1919, p. 693.

**MARSILEACEÆ.****Pilularia globulifera**, Linn.

3. Starrick Moor, St. Austell, 1919, Tresidder.
7. Near Ruan Pool, scarce, Marshall, *Journ. Bot.*, 1918, p. 187.

**CHARACEÆ.****Chara fragilis**, Desv.

1. "Bude" (*Flora*). Canal, Bude, 1915, Thurston.
5. Near the end of mine tunnel, Mount, Perranzabuloe, Tresidder.

\*Sub-species **delicatula**, Braun.

5. Ventongimps Moor, Rilstone.

A considerable number of specimens of the two plants (*C. fragilis* and *C. delicatula*) have been examined by Mr. J. Groves and Canon G. R. Bullock-Webster, and the characters which separate them appear to them sufficiently important to warrant their being treated as distinct species. *Journ. Bot.*, 1919, p. 69.

**C. fragifera**, Durieu.

7. Hayle Kimbro pond, Lizard road; Ruan Pool, 1920, Downes. Quarry pool, Lizard Downs, Marquand, 1920, *B.E.C.*, 1920, p. 257.

8. "Hele Ager Marsh near Sennen" (*Flora*). Pond near Land's End, 1918, C. V. B. Marquand, *B.E.C.*, 1918, p. 534.

**C. aspera**, Willd.

7. Pool, Lizard Downs, 1920, Downes.

**C. vulgaris**, Linn.

4. Roadside pond, Tregorden near Egloshayle, 1918, Thurston.

5. Carnkief pond, Perranzabuloe, Tresidder.

7. Lizard, 1913, Vigurs. "Forma papillata, microptila et brachyteles." J. Groves, *B.E.C.*, 1913, p. 516.

**C. canescens**, Lois.

7. "Lizard peninsula" (*Flora*). Pool, Lizard Downs, 1917, Marshall, *W.E.C.*, 1917-18, p. 83; 1920. Downes. Small quarry pool, Lizard, Marquand, *B.E.C.*, 1920, p. 257. Kynance Downs, Tresidder.

Mr. J. Groves, who saw Mr. Marshall's specimens, writes:—"I have never seen a male specimen. It is wonderful how the plant keeps going so well by parthenogenesis." Recently found by Dr. Druce in the Orkneys.

\***Nitella gracilis**, Agardh.

Recorded in the *Flora* as almost certainly an error, but now included.

5. Pool in a marshy moor, Perranzabuloe, 1911, Rilstone, *R.I.C.*, 1913, p. 225. Mr. Rilstone reports that, whereas in 1911-12 it formed a dense mass in the pool, very little appeared in 1913, since when he has not been able to find a trace of it. *Journ. Bot.*, 1918, p. 114.



**N. translucens**, Agardh.

3. Starrick Moor, St. Austell, Tresidder.
8. "Hele Ager Moor, Land's End, Ralfs" (*Flora*). Collected there in 1918 by C. V. B. Marquand, *B.E.C.*, 1918, p. 534.

**N. opaca**, Agardh.

3. Pentewan, Tresidder.
5. Ventongimps Mill leats, Rilstone.
7. Loe Pool, 1904, Druce, *B.E.C.*, 1914, p. 117. Ruan Pool, Lizard, 1920, Downes. Flooded cart track, Lizard, 1920, Marquand, *B.E.C.*, 1920, p. 257.



## ADDENDA.

**Papaver Rhœas**, Linn. ver. **Pryorii**, Druce.

3. Mount Mine, Par, 1922, Medlin.

**Corydalis claviculata**, DC.

1. Patch in woods, Kensey Valley, Egloskerry, 1922. Smith-Pearse.

\***Fumaria muralis**, Sonder.

6. Near Mevagissey, 1922, Miss Todd.

**Radicula palustris**, Moench.

3. Ballast-heap, Charlestown, 1922. Medlin.

**Sisymbrium Sophia**, Linn.

6. Waste-ground outside Boscawen Park, Truro, 1922. Borlase.

**Reseda lutea**, Linn.

5. Abundant near edge of cliff, Seahole, St. Agnes Beacon, 1922, Borlase.

**Trigonella ornithopodioides**, DC.

6. Pennance, Falmouth, 1922, Miss E. Blackett.

\***Pyrus Aria**, Ehrh.

5. Roadside, Perranzabuloe church, not native, 1922, Rilstone.

**Diotis maritima**, Cass. See p. 73.

8. "Several hundreds of plants in one of the Scilly Isles, Dr. H. Downes." *B.E.C.*, 1921, p. 385. This is the same locality as Mr. Hosking's Land's End district.

\***Cnicus (Cirsium) arvensis**, Hoffm. var. **mite**, Koch.

3. Par Harbour, 1922, Medlin.

**Erica vagans**, Linn. *lusus*. See p. 86.

Mr. Worsdell writes:—"Bracteody. There are other cases in which all organs of the flower are changed into structures which must be regarded, from their size and shape, as bracts

rather than foliage-leaves; owing to the elongation of the axis, their number is at the same time greatly increased. Such are the wheat-ear carnation, the Cornish and cross-leaved heaths (*E. vagans* and *E. Tetralix*), the Madonna lily (*L. candidum*), and the snowdrop (*Galanthus nivalis*)." *Plant Teratology*, II., p. 124.

\***Plantago lanceolata**, Linn. var. **anthoviride**, Watson. Provisional name. *Journ. Bot.*, 1921, p. 355.

5. Many plants on roadside, with type, between Quintrell and Cosworth Downs, 1922, Rilstone and Thurston. "The stamens remain erect or almost so, and do not become as squarrose as in the type; the filaments are greenish yellow and longly-elliptical instead of whitish and oblong-spheroidal as in the type." W. Watson in lit.

**Amaranthus Blitum**, Linn.

3. Par Harbour, 1922, Medlin.

\***Helleborine violacea**, Druce.

1. Morwenstow, 1922, Miss James. Previously recorded for Devon.

\***Phalaris bulbosa**, Linn. Alien, S. Europe.

3. Par Harbour, 1922, Medlin.

A paper by Dr. H. G. Guppy, F.R.S., on Atlantic Drift on Cornish Beaches, was read at a meeting of the Royal Institution of Cornwall in October, 1922, and will be published in the *Journal of the Institution*.

A note by Mr. F. Rilstone on Cornish Sphagna has been published in *Journal of Botany*, Sep. 1922, pp. 263-67.

Note.—By "Yearl's Coombe, Trelawney river," in the Perrycoste records, is intended the stretch of the West Looe river valley above (i.e. N. of) Sowden's Bridge. Yearl's Coombe is a lateral valley running westward from the above.

## CONTRIBUTORS OF ADDITIONS TO THE FLORA.

- |                          |                             |
|--------------------------|-----------------------------|
| Adams, Dr. A.            | Fox, Mrs. Wilson L.         |
| Arnett, J. W.            | Geldart, Miss A. M.         |
| Baggallay, Miss M.       | Goode, R. H.                |
| Baring, Hon. Mrs.        | Green, —                    |
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| Bastian, Dr. H. Charlton | Groves, J.                  |
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| Boyden, Rev. H.          | Hawking, Mrs.               |
| Bray, G.                 | Haynes, G.                  |
| Bucknall, C.             | Henderson, G. C.            |
| Bunney, W. E.            | Henry, Prof. A.             |
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| Church, A. H.            | Hooper, Rev. G. B.          |
| Clarke, Dr. James        | Hosking, A. J.              |
| Clarke, H.               | Hume, A. O.                 |
| Cobbe, Miss A. B.        | Jenner, H.                  |
| Cobbe, Miss M.           | Lamb, C. G.                 |
| Collins, J. H.           | Larter, Miss C. E.          |
| Cookson, Mrs.            | Lawn, Miss                  |
| Daltry, Rev. H. W.       | Little, Mrs.                |
| Darroch, Mrs.            | Lobb, H.                    |
| Davey, F. H.             | Lock, W. W.                 |
| d'Avigdor, Miss B.       | Lowther, A. W. G.           |
| Davy, Lady               | Malim, H.                   |
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| Drabble, E. and H.       | Martyn, Miss B.             |
| Druce, Dr. G. C.         | May, Rev. F. Granville      |
| Durston, K.              | Medlin, L. T.               |
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| Farrar, Miss             | Miller, W. T.               |
| Foggitt, T. J.           | Moss, Dr. C. E.             |
| Foott, W. H.             | Northcote, Hon. Mrs. George |
| Foster, Miss C. P.       | Ostenfeld, C. H.            |
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