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**State Geological and Natural  
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**BULLETIN No. 14**



HARTFORD

Printed for the State Geological and Natural History Survey

1910

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# CATALOGUE

of the  
FLOWERING PLANTS AND FERNS

of  
Connecticut

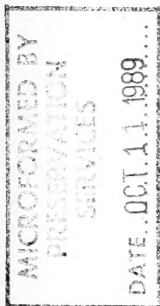
Growing without Cultivation

By

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Committee of the

CONNECTICUT BOTANICAL SOCIETY



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## Preface

The project of an accurate and authoritative catalogue of all the plants known to grow without cultivation in Connecticut originated among several enthusiastic botanists who understood the value of records founded upon careful study of the flora in the field as well as in the herbarium. To arouse the widest possible interest in the undertaking the Connecticut Botanical Society was organized in January, 1903, for the chief purpose of accumulating and recording this knowledge, and committees were appointed to gather and collate all available data bearing upon this particular line of research.

The labor of this never-ending investigation had barely begun when the State Geological and Natural History Survey was authorized. Upon the organization of this Survey its superintendent, Prof. William North Rice, sought the coöperation of this Society to report upon the flora. It was realized then as now that the very nature of the subject would require many years of careful study to arrive at an approximately exact knowledge of the distribution of our plants, since parts of the state were little known botanically, while even those areas most carefully worked over furnished frequent surprises.

That the present work is incomplete goes without saying. A work of this character must always be incomplete if for no other reasons than the advent or naturalization, from time to time, of unexpected species, or the hybridization or artificial segregation of some already known. But the opportunity to disseminate existing information is very acceptable at this time, inasmuch as the many evident deficiencies may thus be made apparent to those who can add to our knowledge.

The present volume, treating of the ferns, fern-allies and flowering plants, is intended to include only such species, varieties and named forms as have been critically examined by at least one of the compilers, and which are represented by authentic

specimens in some herbarium. Great effort has been made to insure accuracy in the determination of all doubtful specimens. Some localities, however, rest upon the authority of collectors alone, when the species is once definitely admitted and there is no reason to doubt identity. It has been necessary to exclude a number of species found in previous lists, because of the absence of any authentic specimens. Errors of determination and changes in classification account for a large proportion of such excluded names, while there remain a few that probably really belong to our flora but are waiting to be rediscovered. A list of such excluded plants will be found at the end of the work. There also will be found other data bearing upon the flora as a whole.

In the present unsettled and perplexing state of nomenclature, it is believed that necessity exists for strict adherence to a single standard to avoid still greater confusion. In Gray's Manual, 7th edition, will be found a discriminating application of the rules and usage adopted by the International Botanical Congress, at Vienna, in 1905. This usage has been productive of the least change in plant names, thereby proving particularly well adapted to the purpose of this Catalogue. Moreover, by accepting this Manual as our guide we are enabled to eliminate all descriptive matter by referring the reader to that work. To facilitate general reference, however, important synonymy is given so that there need be little difficulty in coördinating names.\*

Common or English names have been given considerable attention, yet it is probable that many others are in use, some, no doubt, by children or others of an observing nature. It is desirable to increase our knowledge of such usage. The same may be said of the folk-lore of our plants and of such traditional knowledge of their medicinal and other uses as has come down to us from earlier generations or from the aborigines.

The data relative to times of flowering and fruiting have been compiled from carefully kept records supplemented by herbarium material, and represent the normal habits of the plants in our region; yet the varying conditions of altitude, exposure, moisture, light, season, etc., have great influence in modifying

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\* In a few instances we have used, instead of the names given in the 7th edition of the Manual, the names published by the editors of the Manual in a list of emendations in *Rhodora*, vol. 11, no. 123, March, 1909.



plant activities, so that for special localities or seasons the conditions require special consideration. Unless otherwise stated the dates given in the Catalogue indicate the time when the plant is usually in flower, or, for the ferns, when the spores are mature.

The sign  $\times$  preceding the name of a species indicates that it is supposed to be of hybrid origin.

All statements indicating the comparative frequency of occurrence of the species are to be considered in relation to allied species and with direct reference to the habitat cited; in other situations the plant may not occur at all or exceptionally. A plant "common" in its habitat should be sufficiently plentiful to be within the observation of all who could recognize it, yet there is a vast difference in the comparative numbers of most really plentiful woody plants and low herbs of the same rating. "Frequent," too, is relative in the same sense. Although, as a rule, frequent or common in the habitat and area cited, many such plants may be rare in, or even absent from, certain intervals where the conditions appear to be equally favorable. "Occasional" needs no explanation. "Rare" is intended to apply to those plants which appear to occur sparingly, usually in but few localities as named. "Local" refers especially to such plants as occur at one or more isolated or special areas, but are there more or less plentiful, as indicated by the context.

The habitats cited are those observed in Connecticut, and although often variable are expressive of local conditions.

In accordance with the spirit of the Act incorporating the Survey, due attention has been given to the economic features of the various species, when required, in notes appended to each. Although in some respects desirable, it seems, on the whole, inadvisable at this time to enter upon a discussion of the associations of native plants and the probable causes leading to such congregations. It is necessary to collect much more complete data than are now available before such discussion can be profitably taken up. Mere lists of such plant aggregates are apt to be of no value to most readers and of little utility to practical botanists.

It is a pleasure to acknowledge the assistance of all who have contributed items of information toward the completeness of this Catalogue and whose names appear throughout the work. Particular mention should be made of Dr. B. L. Robinson and Prof. M. L. Fernald, of the Gray Herbarium of Harvard Uni-

versity, for their very great assistance in determining or verifying many doubtful or critical forms, and for granting the privilege of utilizing the manuscript of the new edition of Gray's Manual. Prof. A. S. Hitchcock and Mrs. Agnes Chase, of the United States Department of Agriculture, have also given aid in certain groups of grasses.

It is hoped that the publication of this Catalogue will stimulate observers and collectors in all parts of the state to contribute every item of information tending to a full knowledge of our plants, either in relation to additional species, distribution, local names, habitat or economic value. Communications may be sent to any member of the committee, at the address given, preferably the one nearest and most convenient, and should be accompanied by specimens of sufficient diagnostic value to determine the identity of each, together with particulars of occurrence, dates, etc. Such specimens, to be of the greatest value for preservation and future reference, should be carefully selected, and may be sent in the fresh state or, preferably, after proper drying under pressure.

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# Introduction.

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## PART I. HISTORY.

The history of botanical exploration in Connecticut may be said to begin near the end of the second decade of the last century. Previous to this time we have no record of any botanical activity within the state, and if any of the older botanists visited Connecticut it must have been cursorily.

The first resident of Connecticut whose work is of importance seems to have been Dr. Eli Ives, who was born in 1779, and was for many years professor of botany and materia medica in Yale College. He was the author of the species *Gnaphalium decurrens*, which was founded on specimens from New Haven and from "the margin of the Housatonic about 30 miles from Long Island Sound." He also described as a new species *Asclepias lanceolata* from Cedar Hill, New Haven, which is the plant now known as *Acerates viridiflora* (Raf.) Eaton, var. *lanceolata* (Ives) Gray. Beside this he published notes on *Limosella*, then recently discovered in America. These three articles appeared in 1819 in the first volume of Silliman's Journal, now known as The American Journal of Science. Twelve years later he, in collaboration with Dr. William Tully and Dr. Melines C. Leavenworth, published a "Catalogue of the Phaenogamous Plants, and of the Ferns, growing without cultivation within five miles of Yale College." This is the earliest record of the flora of this well-explored part of the state and contains the names of 1156 species. It was not, however, founded on specimens or even on accurate records, and contains a few species which are not otherwise reported from the state. The foregoing works seem to have comprised the bulk of Dr. Ives' botanical publications and no specimens of his have been seen.

About the time of the publication of Dr. Ives' earliest articles John Pierce Brace must have been making the observations

about Litchfield the results of which he published in 1822 in Silliman's Journal as "A List of Plants growing spontaneously in Litchfield and Vicinity." This earliest extant catalogue of the plants of any portion of Connecticut enumerates 453 species, most or all of which are now known from the same region. Mr. Brace's specimens are said to be preserved at Williams College, but they have not been seen by any member of this Committee.

We are told that Amos Eaton "prosecuted the study of botany, chemistry and mineralogy to some extent in New Haven in 1817." Although we know nothing of the extent of his work on our flora, the record is interesting from the fact that he was the grandfather of Prof. D. C. Eaton and one of the first in America to arouse a general interest in botany.

The earliest collectors whose specimens have been preserved in any quantity belong to a period some years later. Dr. H. C. Beardslee, Dr. J. W. Robbins and Charles Wright collected many rare species during the dozen years following 1822, mostly from 1828 to 1832, some of which have only recently been rediscovered. These gentlemen, although natives of this state, made most of their later collections outside of Connecticut, and some specimens lay for a long time undistributed; so that a few species known to these collectors are here first included in a formal flora of the state.

The next collector whose work is of importance is Prof. Daniel C. Eaton of Yale, who will need no eulogy either as a man or as a scientist to those who were fortunate enough to know him. Although primarily a student of the ferns and other cryptogams, his knowledge of the higher plants was extensive and accurate. He collected much in the region about New Haven and always welcomed reports or specimens of species new to or rare in Connecticut. His collecting, as shown by the dates in his herbarium, began about 1856, and his specimens have been of the greatest assistance both in botanical exploration and in the preparation of this work.

After 1831 work on the flora of Connecticut seems to have lapsed entirely until it was taken up about 1877 by a small group of students in the Sheffield Scientific School of Yale College. The results of their work were published as "A Catalogue of the Flowering Plants and Higher Cryptogams growing without

cultivation within thirty miles of Yale College." This was published by the Berzelius Society and is often referred to as the "Berzelius Catalogue." The limits adopted included less than one-half of the state and a portion of the northern part of Long Island. The presence of a considerable number of species credited to Long Island makes it difficult to determine the precise number of species recorded from this state; but the species and varieties of plants higher than the Bryophyta which are credited to Connecticut number about 1230. The work was prepared with considerable care, but at least a few species were admitted without the evidence of specimens, which caused a few obvious errors as well as some conjectural ones. The idea of this work originated with Dr. George W. Hawes and Dr. T. M. Prudden, but several others assisted in its preparation, notably Prof. Eaton, who later published some additions in the Bulletin of the Torrey Botanical Club.

Not long after this Miss Leonard of Meriden prepared a list of plants growing near Meriden which was published after her death by the Meriden Scientific Association. This enumerated 749 species, while 41 were added by others the next year, making a total of 790. Owing perhaps to the posthumous character of the work it seems never to have had proper revision, and a number of species are included which are not otherwise reported from Connecticut, some of them of such southern range that it does not seem likely that they can belong in a Connecticut list. The lack of specimens prevents the inclusion here of any of these species not reported elsewhere.

In 1882 George R. Case and William A. Setchell published a list of the flora of Norwich and vicinity containing 668 species, and the next year published 100 addenda. A manuscript found among Prof. Eaton's papers gives 99 more for the year 1884, with some corrections, making the total 856.

In 1885 James N. Bishop of Plainville published "A Catalogue of all the Phaenogamous Plants at present known to grow without cultivation in the State of Connecticut." In 1895 a revision was issued which included also the ferns and fern-allies. Additions and corrections were published in 1897 and another new edition issued in 1901. This first catalogue to cover the entire state contained in its first edition 1250 species and varieties,

which number was increased to 1743 in the edition of 1901. Mr. Bishop deserves much credit for his efforts to increase the knowledge of our flora, but his catalogue is rather a compilation of all accessible reports than a critical treatment of the flora of the state, and contains many records the validity of which cannot now be ascertained.

Of late years a large mass of data has been accumulated by the various collectors whose names appear in this work. Some of this has been published in Luman Andrews' "Flora of Meriden Mountain," in Bissell & Andrews' "Flora of Southington," and in Mrs. E. E. Rogers' "Flora of Norwich," as well as in scattered notes and articles by various writers dealing with special localities or species. The bulk of this later material, however, has found its first publication in this present Catalogue.

## PART II. GEOLOGY AND PHYSIOGRAPHY.\*

The State of Connecticut, measuring roughly one hundred miles from east to west and fifty miles from north to south, has an area of 4990 square miles, of which 145 square miles are covered by water. The three principal rivers, the Thames, the Connecticut and the Housatonic, with their tributaries, drain the interior. As in all glaciated countries, numerous ponds or lakes and swamps are scattered over the surface, and constitute an important feature both from an economic and an æsthetic point of view. According to the Atlas of the U. S. Topographical Survey the state contains 1026 lakes or ponds, and 420 swamps.

With respect to elevation there are three well-marked divisions running parallel with one another across the state from north to south, namely an eastern and a western highland separated by a central lowland area. From sea level the land gradually rises toward the north and northwest. The eastern highland reaches its greatest altitude of 1286 ft. at Bald Hill, in Union, while Bear Mt., in Salisbury, with a height of 2355 ft. marks the highest point of the western highland as well as of the state.

The central lowland is in general a plain, gently rising toward the northern boundary of the state where it is from one to two

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\* For a very full and admirable account with map, reference is made to Bulletins No. 6 and No. 7 of this Survey.



hundred feet above the level of the sea. It is, however, interrupted by many sharp ridges running chiefly north and south which rise abruptly much above the general level of the plain. Its upper portion as far south as Middletown is traversed by the Connecticut River. Its rock formation is sandstone belonging to the Triassic age, while the sharp ridges referred to are of trap rock and represent ancient eruptions of lava. The highest of these trap ridges is West Peak of the Hanging Hills, near Meriden, which reaches an altitude of 1007 ft. above the sea.

The eastern and western highlands are rugged and hilly, with only comparatively small level areas, and have a crystalline rock formation, being made up for the most part of various kinds of granites, gneisses, schists and limestone. The limestone formation covers a considerable irregular area in the western and north-western parts of the state but is practically absent from other sections.

It is a well-known fact that our wild plants are not evenly distributed over the surface of the country. Some kinds are seen nearly everywhere, others may be abundant in one region but entirely absent from other sections, while still others are found only rarely, and then but very few together. Inquiry into the causes of this unequal distribution reveals a considerable number of factors entering in. One of the most important of these is the chemical constitution of the soil. Rock formations as the source of soils exercise a marked influence upon plant distribution. Many kinds of plants, it is true, are able to grow and seem to thrive equally well upon a variety of soils, but on the other hand there are many species that flourish only upon certain rock formations and the soils produced from them and are rarely if ever found away from such formations. One of our best examples is seen in the case of those species of plants which grow exclusively upon limestone rocks and in soils rich in lime. In like manner seashore plants which grow only in saline soil form a well-marked group. This relation between plant distribution and the chemical constitution of the soil as applied to our Connecticut plants is understood only in its most general features, and there is here good opportunity for research. The problem is much complicated by the fact that Connecticut soils are practically all formed from transported material. Such material, having been

brought by glacial or water agency from a greater or less distance, may be and often is entirely different in chemical composition from the underlying rock. Hence within a small area a variety of soils may be found, while on the other hand soils essentially similar to each other may overlie very different bed-rock formations.

Other influences have an important bearing in this connection. Topographic features correlated with the amount of moisture in the soil and degrees of light and shade affect plant distribution in a marked degree. Thus, the sand plains, the cedar swamps, the trap rock and other precipices and the larger river valleys have their characteristic plants.

There is another small group of species chiefly confined to the southeastern part of the state which belongs to the flora of the Atlantic Coast Plain of the middle and southern states. In the case of these plants, as in that of certain northern plants found within our borders at isolated stations far outside their usual range, it is probable that they represent the shrunken remnants of far larger colonies which grew there in earlier times and under more favorable climatic conditions.

Another agency profoundly influencing the distribution of plants is the fierce unceasing struggle for existence between the various species.

Only a beginning has been made in working out these problems of ecology in their application to our Connecticut flora. They offer a fresh and inviting field for careful research, and it is to be hoped that many observers may soon be interested to undertake the task of supplying the deficiencies of our knowledge in this direction.

# Catalogue of Flowering Plants and Ferns.

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## PTERIDOPHYTA. FERN PLANTS.

### POLYPODIACEAE. FERN FAMILY.

#### POLYPODIUM L. Polypody.

**Polypodium vulgare** L. (common).

Polypody.

Shaded ledges. Occasional or frequent in northern districts, becoming common near the coast. June — Aug.

The var. *CAMBRICUM* (L.) Willd. has been collected at Stonington (Miss Stanton) and at Cornwall (L. M. Underwood).

The rootstock is medicinal.

#### **PHEGOPTERIS** (Presl) Fée. Beech Fern.

**Phegopteris polypodioides** Fée (Polypodium-like).

*Phegopteris Phegopteris* Underw.

Long Beech Fern.

Rich moist woods and on shaded banks. Rare or local near the coast, becoming occasional or frequent northward. July.

**Phegopteris hexagonoptera** (Michx.) Fée (six-angled fern).

Broad Beech Fern.

Rich woods either moist or dry. Occasional near the coast, becoming frequent or common northward. Aug.

This fern is so closely related to *Phegopteris polypodioides* that it is often difficult to decide to which species a given specimen belongs.

**Phegopteris Dryopteris** (L.) Fée (oak-fern).

Oak Fern.

Rocky woods in rich moist soil. Rare or local over most

of the state: East Lyme (Miss A. M. Ryon), Colchester (Graves), Mansfield (Mrs. C. S. Phelps), East Haddam (Dr. E. J. Thompson), Durham and Monroe (Harger), Meriden (D. C. Eaton), Southington (Andrews), Granby (I. Holcomb), Bridgeport (I. Holden). Occasional or frequent in Litchfield County. Late June — early July.

**ADIANTUM L.** Maidenhair.

**Adiantum pedatum L.** (like a bird's foot; referring to the method of division in the fronds).

Maidenhair.

Rich woods. Rare in the immediate vicinity of the coast; occasional or frequent elsewhere. July.

Thrives well in cultivation if placed in a moist, shaded and sheltered location. The plant is medicinal.

**PTERIS L.** Brake. Bracken.

**Pteris aquilina L.** (of an eagle; referring to the wing-shaped fronds).

*Pteridium aquilinum* Kuhn.

Common Brake. Bracken. Brake.

Common. Usually in open ground and poor soils. Aug.

The young shoots are sometimes gathered and eaten in the manner of Asparagus.

**CHEILANTHES Sw.**

**Cheilanthes lanosa** (Michx.) Watt (woolly).

*Cheilanthes vestita* Sw.

Hairy Lip Fern.

Very rare. New Haven, precipitous face of West Rock about half way up the cliff (G. Van Ingen 1892). July.

This is the only known station for this species in New England, and it is supposed to be the northern limit of its growth.

**PELLAEA Link.** Cliff Brake.

**Pellaea atropurpurea** (L.) Link (dark purple).

Purple Cliff Brake.

Dry exposed ledges, preferring limestone but occurring also on trap and rarely on gneiss. Bolton, on gneiss (A. V. Osmon); Guilford, on trap (G. H. Bartlett); becoming rare

or local westward and frequent in the limestone district of northwestern Connecticut. July.

The fronds vary greatly in form even on the same plant. The rootstock is medicinal.

**CRYPTOGRAMMA** R. BR.      Rock Brake.

**Cryptogramma Stelleri** (Gmel.) Prantl.

*Pellaea gracilis* Hook.

*Pellaea Stelleri* Watt.

Slender Rock Brake.

Very rare. New Haven, on trap ledges at West Rock (G. Van Ingen); Kent, moist shaded ledges of calcareous rock (Eames & E. H. Austin), and Brookfield, in similar situations (Eames); Salisbury, on limestone (Mrs. C. S. Phelps). July.

**WOODWARDIA** Smith.      Chain Fern.

**Woodwardia virginica** (L.) Smith.

Virginia Chain Fern.

Wet open swamps, often in Sphagnum. Rare or local in northern districts: South Windsor (A. W. Driggs), Granby (I. Holcomb). Becoming occasional southward and frequent near the coast. July.

**Woodwardia areolata** (L.) Moore (marked with little areas).

*Woodwardia angustifolia* Smith.

Net-veined Chain Fern.

Wet or swampy woods. Rare inland: East Hartford (J. F. Smith), Oxford and Middlebury (Harger). Occasional in the vicinity of the coast. Sept.

**ASPLENIUM** L.      Spleenwort.

**Asplenium pinnatifidum** Nutt. (feather-cleft).

Pinnatifid Spleenwort.

Very rare. Southington, on ledges of shale (H. C. Bigelow); Sharon, on ledges of limestone (E. I. Huntington). July.

Not known from any other New England state.

× **Asplenium ebenoides** R. R. Scott (like the Ebony Spleenwort).

Scott's Spleenwort.

Two plants of this rare species, or more properly hybrid,

have been found in the state. The first was discovered in Canaan by Mr. J. S. Adam in Sept., 1876. Mr. Adam states that the plant flourished there until 1891, then disappeared. A second plant was found in the same town, but at a different station, by Mr. C. K. Averill, in Aug., 1902. Both plants were growing on shaded limestone ledges and with or near the two supposed parent species, *Asplenium platyneuron* and *Camptosorus rhizophyllus*.

**Asplenium Trichomanes** L. (ancient name for some fern).

Maidenhair Spleenwort.

Shaded ledges. Rather rare along the coast, becoming occasional or frequent northward. July.

**Asplenium platyneuron** (L.) Oakes (broad-nerved).

*Asplenium ebeneum* Ait.

Ebony Spleenwort.

Frequent. Dry rocky ground, more often in half-shade. Aug.

The var. **SERRATUM** (E. S. Miller) BSP. (toothed) has been found at Middletown (Bissell), Milford (Eames & C. C. Godfrey), and Huntington (Eames).

**Asplenium montanum** Willd. (of mountains).

Mountain Spleenwort.

Rare. Crevices of dry, usually overhanging ledges: Scotland (G. Waldo), North Stonington (Fuller & W. E. Setchell, Graves), Franklin and East Haddam (Graves), Beacon Falls (A. W. Evans), Salisbury (Mrs. C. S. Phelps). July.

The last named station represents the northern limit of its range as now known.

**Asplenium Ruta-muraria** L. (wall-rue).

Rue Spleenwort.

Shaded ledges. Berlin (T. S. Brandegee), Southington (Andrews), Granby (I. Holcomb), Sherman and New Milford (E. H. Austin); and occasional in the limestone district of northwestern Connecticut. Not known from eastern districts or near the coast. July.

**Asplenium angustifolium** Michx. (narrow-leaved).

Narrow-leaved Spleenwort.

Rare. Moist rich woods: Guilford (W. W. Denslow),

Meriden (D. C. Eaton), Southington (J. N. Bishop), Berlin (H. W. Cowles), Avon (I. Holcomb), Salisbury (F. Rundle).  
Aug.

**Asplenium acrostichoides** Sw. (like *Acrostichum*, a genus of tropical ferns).

*Asplenium thelypteroides* Michx.

Silvery Spleenwort.

Woods and ravines in moist rich soil. Occasional near the coast, becoming frequent northward. Aug.

**Asplenium Filix-femina** (L.) Bernh. (female fern).

Lady Fern.

Common. Woods, thickets and fence-rows. Late July — early Aug.

A very variable species with many described forms, some of which seem to be caused by differences in the soil, exposure or habitat. The rootstock is medicinal, and is used as a substitute for that of the Male Fern.

**CAMPTOSORUS** Link. Walking Leaf.

**Camptosorus rhizophyllus** (L.) Link (with rooting leaves).

Walking Leaf. Walking Fern.

Shaded ledges, preferring limestone, but growing also on granite, sandstone or trap. Found throughout, but rare or local over most of the state, becoming frequent in the limestone district of northwestern Connecticut. July — Aug.

Plants having the lower auricles of the fronds elongated like the tip have been found at Southington (H. C. Bigelow), Hamden, at Mt. Carmel (D. C. Eaton), and Salisbury (Mrs. C. S. Phelps).

**POLYSTICHUM** Roth.

**Polystichum acrostichoides** (Michx.) Schott (like *Acrostichum*, a genus of tropical ferns).

*Aspidium acrostichoides* Sw.

*Dryopteris acrostichoides* Kuntze.

Christmas Fern.

Common. Woods and shaded banks or ledges. July.

The var. *INCISUM* Gray (cut or notched), var. *Schweinitzii* Small, *Aspidium acrostichoides* Sw., var. *incisum* Gray,

*Dryopteris acrostichoides* Kuntze, var. *Schweinitzii* Underw., occurs occasionally. It is found more often late in the season and frequently where the woods have recently been felled. A form with crested fronds occurs at East Haddam (Weatherby).

**ASPIDIUM** Sw. Wood Fern. Shield Fern.

**Aspidium Thelypteris** (L.) Sw. (female fern).

*Dryopteris Thelypteris* Gray.

Marsh Fern.

Common. Swamps and wet ground. Aug.

Often very plentiful and sometimes cut and dried as bedding for stock.

**Aspidium simulatum** Davenp. (imitating; referring to its resemblance to the Marsh Fern).

*Dryopteris simulata* Davenp.

Massachusetts Fern.

Wet woods and cedar swamps. Rare over most of the state: Salisbury (Mrs. C. S. Phelps), Oxford (Harger), Southington (Bissell), Cromwell (H. C. Bigelow). Local in New London County (Graves). Aug.

**Aspidium noveboracense** (L.) Sw. (New York).

*Dryopteris noveboracensis* Gray.

New York Fern.

Frequent. Woods, more often in moist ground. Aug.

**Aspidium marginale** (L.) Sw. (on the edge; referring to the position of the fruit dots).

*Dryopteris marginalis* Gray.

Marginal Shield Fern.

Frequent. Dry rocky woods. July.

The rhizome is officinal and with that of the Male Fern furnishes the drug *Aspidium* or *Filix-mas*. All species of the genus possess the same property in some degree.

**Aspidium Goldianum** Hook.

*Dryopteris Goldiana* Gray.

Goldie's Fern.

Rare. Rich moist woods: North Branford (O. Harger), Bloomfield (Miss A. Lorenz), Farmington (I. Holcomb),



Southington (Andrews & Bissell), Cheshire (D. C. Eaton),  
New Haven (Harger). July.

**Aspidium Boottii** Tuckerm.

*Dryopteris Boottii* Underw.

Rare or occasional. Wet woods and shaded swamps, usually growing with *Aspidium cristatum*. July.

Intermediate in form and formerly considered a hybrid between *Aspidium cristatum* and *Aspidium spinulosum*, var. *intermedium*.

**Aspidium cristatum** (L.) Sw. (crested).

*Dryopteris cristata* Gray.

Crested Shield Fern.

Occasional or frequent. Wet woods and shaded swamps, more often in sandy soil. July.

A hybrid between this species and *Aspidium marginale* occurs at East Lyme (Miss A. M. Ryon & Graves), Waterford (Graves), Granby (I. Holcomb), and Salisbury (Mrs. C. S. Phelps).

**Aspidium cristatum** (L.) Sw., var. **Clintonianum** D. C. Eaton.

*Dryopteris cristata* Gray, var. *Clintoniana* Underw.

Clinton's Shield Fern.

Rare or occasional. Wet woods and shaded swamps. July.

This variety appears to hybridize with *Aspidium marginale* and also with the typical form of the species.

**Aspidium spinulosum** (O. F. Müller) Sw. (with small spines).

*Dryopteris spinulosa* Kuntze.

Spinulose Shield Fern.

Moist or wet woods. Usually rare or local but occurring throughout the state. Late June — early July.

This species and its varieties are desirable for cultivation in shaded places and also grow well indoors in the fernery.

**Aspidium spinulosum** (O. F. Müller) Sw., var. **intermedium** (Muhl.) D. C. Eaton (intermediate).

*Dryopteris spinulosa* Kuntze, var. *intermedia* Underw.

Occasional or frequent. Moist woods and on shaded rocks. Late June — early July.

**Aspidium spinulosum** (O. F. Müller) Sw., var. **dilatatum**  
(Hoffm.) Gray (dilated).

*Dryopteris spinulosa* Kuntze, var. *dilatata* Underw.

Broad Shield Fern.

This variety is not known in its typical state in Connecticut. The forma **ANADENIUM** Robinson (without glands) apparently occurs at East Hartford (Weatherby), Granby and Barkhamsted (I. Holcomb), and Southington (Andrews, Bissell). It is found growing with the species or with the var. *intermedium* and none of the Connecticut specimens are as characteristic as those from mountainous districts farther north. July.

**CYSTOPTERIS** Bernh. Bladder Fern.

**Cystopteris bulbifera** (L.) Bernh. (bulb-bearing).

*Filix bulbifera* Underw.

Bladder Fern.

Moist rocky woods, wet ledges, meadows and banks of streams. Not reported on the coast or from the eastern and southwestern parts of the state. Rare or local in central districts: Guilford, at North Guilford (G. H. Bartlett), Windsor (H. S. Clark), Simsbury (I. Holcomb), Oxford (Harger). Becoming frequent or common in northwestern Connecticut. July.

**Cystopteris fragilis** (L.) Bernh. (brittle).

*Filix fragilis* Underw.

Occasional to frequent. Rich woods, usually in leaf-mold among rocks, sometimes found in old wells. June.

One of the earliest of our ferns to appear in the spring.

**WOODSIA** R. Br.

**Woodsia ilvensis** (L.) R. Br. (pertaining to the island Elba).  
Rusty or Rock Woodsia.

Dry exposed ledges of various rock formations. Rare or local but found in nearly all parts of the state. July.

**Woodsia obtusa** (Spreng.) Torr. (blunt).

Blunt Woodsia.

Occasional. Woods or half-shade, usually in rocky, rather dry places. July.

**DICKSONIA** L'Hér.

**Dicksonia punctilobula** (Michx.) Gray (with small, dotted lobes).

*Dicksonia pilosiuscula* Willd.

*Dennstaedtia punctilobula* Moore.

Hay-scented Fern.

Common. Rich woods, fence-rows and hilly pastures, in both moist and dry ground, often forming large colonies. Aug.

The forma **CRISTATA** (Maxon) Clute (crested), and the forma **SCHIZOPHYLLA** Clute (cut-leaved) are both reported to occur rarely with the species.

Sometimes a pest to farmers in rocky pastures, as stock will not eat it and the plant is difficult to eradicate. It grows well in cultivation. Forking fronds are not unusual.

**ONOCLEA** L.

**Onoclea sensibilis** L. (sensitive).

Sensitive Fern.

Common. Low fields, swamps and along streams. Sterile June; fertile Sept.

The var. **OBTUSILOBATA** (Schkuhr) Torr. (with blunt lobes) sometimes occurs. It is apparently an abnormal form caused by cutting or some injury to the earlier growth of the plant.

The sterile fronds are very susceptible to early frost, whence the name.

**Onoclea Struthiopteris** (L.) Hoffm. (ostrich fern).

*Matteuccia Struthiopteris* Todaro.

Ostrich Fern.

Rich alluvial soil. Rare in most districts, but frequent along the Connecticut and Housatonic Rivers and their larger tributaries. Sterile June; fertile Aug.—Sept.

Our largest fern, the fronds occasionally reaching six feet in height. It thrives in cultivation if given rich soil, and is often grown for ornament.

## SCHIZAEACEAE. CURLY GRASS FAMILY.

## LYGODIUM Sw. Climbing Fern.

*Lygodium palmatum* (Bernh.) Sw. (branching like the out-spread fingers of a hand).

Creeping Fern. Hartford Fern. Climbing Fern.

Rich woods and thickets, in moist, usually sandy soil. Not reported from western Connecticut; rare in eastern districts: Griswold (Harger & Graves), Lyme (Dr. E. J. Thompson). Local at many stations in the central part of the state. Aug.—Sept.

The following Act was passed by the Legislature and became a law on July 8, 1869: "Any person who shall wilfully and maliciously sever or take from the land of another any of the species of plant known as *Lygodium palmatum* or Creeping Fern growing and being thereon, shall be punished by a fine not exceeding Seven Dollars or imprisonment in county jail not exceeding thirty days or by such fine and imprisonment both at the discretion of the court." The penalty for this offense was later increased. Prior to 1869 this fern was extensively collected and pressed for decorative purposes.

## OSMUNDACEAE. FLOWERING FERN FAMILY.

## OSMUNDA L. Flowering Fern.

*Osmunda regalis* L. (royal).

Royal Fern. Flowering Fern.

Frequent or common. Low thickets, wet meadows and pastures and along streams. June.

The rootstock is medicinal.

*Osmunda Claytoniana* L.

Interrupted Fern.

Frequent or common. Old pastures, along fence-rows and in open wood-lands. Fertile May; sterile June.

The var. *DUBIA* A. J. Grout (doubtful) occurs occasionally. It is apparently a form caused by some injury to the plant.

All our species of *Osmunda* thrive in cultivation.

**Osmunda cinnamomea** L. (cinnamon-colored).

Cinnamon Fern.

Common. Wet woods, swamps and boggy ground. Fertile May; sterile June.

Both the var. *FRONDOSA* Gray (leafy) and the var. *INCISA* J. W. Huntington (notched) sometimes occur.

The abundant tomentum found on this species is used in nest building by certain birds.

OPHIOGLOSSACEAE.      ADDER'S TONGUE  
FAMILY.

**OPHIOGLOSSUM** L.      Adder's Tongue.**Ophioglossum vulgatum** L. (common).

Adder's Tongue.

Moist meadows, woods and low pastures. Rare or local though perhaps more plentiful than usually supposed as the plant is very inconspicuous. July.

**BOTRYCHIUM** Sw.      Moonwort. Grape Fern.**Botrychium simplex** E. Hitchc. (simple).*Botrychium tenebrosum* A. A. Eaton.

Rare. Rich woods either dry or moist: Granby (I. Holcomb), Oxford (J. & O. Harger), Goshen (L. M. Underwood), New Milford (J. Pettibone). June.

Botanists disagree as to the proper treatment of this species and our plants need further study.

**Botrychium lanceolatum** (Gmel.) Ångstr. (lance-shaped), var. **angutisegmentum** Pease & Moore (with narrow segments).*Botrychium lanceolatum* of Manuals.

Rare. Moist rich woods, usually in leaf-mold: Norwich (W. A. Setchell), East Lyme (Miss A. M. Ryon), Windsor (Weatherby), Granby (I. Holcomb), New Haven and Oxford (Harger), Orange (O. Harger), Naugatuck and Stratford (Eames), Winchester (Bissell), Goshen (L. M. Underwood), Easton (L. N. Johnson), Salisbury (Mrs. C. S. Phelps). Late June — early July.

This species seems to mature its spores two or three weeks later than *Botrychium ramosum* when the two grow together.

**Botrychium ramosum** (Roth) Aschers. (having many branches).

*Botrychium matricariaefolium* Braun.

*Botrychium neglectum* Wood.

Rich woods. Rare or local, but found throughout the state. June.

Small forms of this are difficult to separate from *Botrychium simplex*.

**Botrychium obliquum** Muhl. (oblique).

*Botrychium ternatum* Sw., forma *obliquum* Milde.

Grape Fern.

Occasional or frequent. Meadows, woods and old pastures in either dry or moist ground. Sept.

The var. *ELONGATUM* Gilbert & Haberer (elongated), and the var. *DISSECTUM* (Spreng.) Clute (finely cut), *Botrychium dissectum* Spreng., are occasional, growing with the typical form.

**Botrychium ternatum** (Thunb.) Sw. (three-parted), var. *intermedium* D. C. Eaton (intermediate).

*Botrychium obliquum* Muhl., var. *intermedium* Underw.

*Botrychium ternatum* Sw., var. *australe* D. C. Eaton.

Rare. Rich woods: Union and Southington (Bissell), West Hartford (Harger), Granby (I. Holcomb), Meriden (Andrews), New Milford (C. K. Averill & E. H. Austin), North Canaan (M. B. Tobey). Sept. A small form of this approaching in appearance *Botrychium obliquum*, var. *oneidense* occurs at Granby (I. Holcomb), Plainville (Andrews), and Plymouth (Bissell).

**Botrychium virginianum** (L.) Sw.

Rattlesnake Fern.

Occasional or frequent. Moist rich woods. June.

The fruiting fronds are occasionally forked, and bear two, three or four fertile panicles.

## MARSILEACEAE.

### MARSILEA L.

**Marsilea quadrifolia** L. (four-leaved).

Local. Plentiful in Bantam Lake, Litchfield, its only known native habitat in North America. It has been intro-

duced and thrives in a pond at Cromwell (C. C. Hanmer), and in Lake Whitney, Hamden. Aug.

## EQUISETACEAE. HORSETAIL FAMILY.

**EQUISETUM** L. Horsetail. Scouring Rush.

**Equisetum arvense** L. (of cultivated ground).

Common Horsetail.

Common. Sandy soil either dry or moist. Varies greatly according to season or habitat and several forms have been described. Fertile May; sterile June.

The plant is medicinal. It is said to be dangerously poisonous to horses when cut with hay.

**Equisetum pratense** Ehrh. (of meadows).

Rare. Moist sandy alluvium on the banks of the Housatonic River: Oxford (Eames & Harger), Newtown (Harger). Fertile May; sterile June—July.

This resembles the preceding species and may have been overlooked by other collectors.

**Equisetum sylvaticum** L. (growing in woods).

Occasional or local. Moist places and in wet ground about springs. Fertile May; sterile June—July.

**Equisetum palustre** L. (of marshes).

Rare. Wet meadows along the Connecticut River or on its banks: Lyme (Graves), East Windsor (Bissell). June.

**Equisetum fluviatile** L. (of a river).

*Equisetum limosum* L.

Pipes.

Shallow water and wet meadows along streams. Frequent along our rivers and larger streams but rare or local elsewhere. Fertile May; sterile June—Aug.

**Equisetum hyemale** L. (lasting over the winter), var. **intermedium** A. A. Eaton (intermediate).

Scouring Rush.

Rare. Growing on railroad embankments: Hartford (H. S. Clark), Norfolk (Bissell & H. S. Clark). May—June.

**Equisetum hyemale** L., var. **affine** (Engelm.) A. A. Eaton (allied).

*Equisetum hyemale* of Manuals, mainly.

Scouring Rush. Shave Grass.

Frequent. Sandy soil, usually in moist but sometimes in dry places. May.

The siliceous stems were formerly much used for scouring and polishing. The plant is medicinal.

**Equisetum variegatum** Schleich. (variegated), var. **Jesupi** A. A. Eaton.

*Equisetum variegatum* of Manuals in part.

Rare. Alluvial soil along the Housatonic River: Canaan (J. W. Robbins), Salisbury (A. W. Evans, Mrs. C. S. Phelps), Cornwall (H. S. Clark & Bissell). May—June.

**Equisetum scirpoides** Michx. (like *Scirpus*, the Bulrush).

Rare or local. Rich woods, usually on moist hillsides: Norfolk (J. W. Robbins), Canaan (H. S. Clark & Bissell), Sharon and Cornwall (A. V. Osmun). May—June.

## LYCOPODIACEAE. CLUB MOSS FAMILY.

### LYCOPODIUM L. Club Moss.

**Lycopodium Selago** L. (classical name for this species).

Rare. In a cool shaded ravine near New Haven (J. A. Allen, 1879). Sept.

Has been found at Mt. Holyoke, Mass., and should be looked for at intermediate localities among our trap hills.

**Lycopodium lucidulum** Michx. (slightly shining).

Occasional. Damp mossy woods, usually in deep shade. Sept.

**Lycopodium inundatum** L. (subject to flooding).

Rare or local. Open bogs, usually in sandy soil. Aug.—Sept.

The var. **BIGELOVII** Tuckerm., *Lycopodium adpressum* Lloyd & Underwood in part, occurs at Voluntown (Harger), Groton (Graves), East Lyme (Miss A. M. Ryon & Graves), New Haven (D. C. Eaton), Milford (Eames).



**Lycopodium annotinum** L. (of a year).

Rare or local. Base of trap dyke, in moist soil, North Branford (G. H. Bartlett), and in similar situations, Durham (Harger). Wet cold woods: Cromwell (F. K. Hallock), Winchester (Andrews & Bissell), Norfolk (J. H. Barbour), Redding (L. N. Johnson), Salisbury (Mrs. C. S. Phelps).  
July — Aug.

**Lycopodium clavatum** L. (club-shaped).

Running Pine. Common Club Moss.

Occasional. Dry woods or sometimes in moist ground.  
Sept.

The var. *MONOSTACHYON* Grev. & Hook. (single-spiked) is rare or local: East Lyme (Miss A. M. Ryon), Franklin (R. W. Woodward), Stafford (Dr. E. J. Thompson & Weatherby), Simsbury (I. Holcomb, B. B. Bristol & Bissell), Southington (Andrews), Wolcott (Andrews & Bissell), Norfolk (J. H. Barbour), Salisbury (Mrs. C. S. Phelps).

The spores of this and other species are medicinal and are officinal. They also possess peculiar mechanical properties.

**Lycopodium obscurum** L. (obscure).

Tree Club Moss.

Woods and old pastures, both dry and moist. Frequent near the coast, becoming rare northward. Sept.

**Lycopodium obscurum** L., var. *dendroideum* (Michx.) D. C.

Eaton (tree-like).

Tree Club Moss.

Woods and pastures. Frequent northward, becoming rare near the coast. Sept.

**Lycopodium complanatum** L. (flattened), var. *flabelliforme*

Fernald (fan-form).

*Lycopodium complanatum* of American authors in part.

Ground Pine. Christmas Green.

Common. Woods and pastures, more often in sandy soil.  
Sept.

Well known and much used for Christmas decorations.

**Lycopodium tristachyum** Pursh (three-spiked).

*Lycopodium complanatum* L., var. *Chamaecyparissus* Milde.

Occasional. Sandy woods, either dry or moist. July — Aug.

## SELAGINELLACEAE.

## SELAGINELLA Beauv.

*Selaginella rupestris* (L.) Spring (growing on rocks).

Occasional. Dry exposed ledges, or sometimes on barren soil. Aug.—Sept.

*Selaginella apus* (L.) Spring (footless; i. e., without a stalk).

Frequent. Moist open or half-shaded ground, usually in meadows and pastures or about springs. July—Aug.

## ISOËTACEAE. QUILLWORT FAMILY.

## ISOËTES L. Quillwort.

*Isoëtes Tuckermani* A. Br.

Rare or local. Growing submerged on gravelly shores of ponds: Ledyard, North Stonington and East Lyme (Graves), Lyme (Graves & Bissell). July—Aug.

*Isoëtes foveolata* A. A. Eaton (minutely pitted).

Rare. Meriden, edge of small pond near West Peak (F. W. Hall, 1873). Aug.

*Isoëtes sacharata* Engelm. (sugary), var. *Amesii* A. A. Eaton.

Rare. Shallow water of ponds and rivers: Griswold (Harger), North Stonington (Graves & Bissell), Ledyard and Lyme (Graves). July—Aug.

*Isoëtes echinospora* Dur. (prickly-spored), var. *Braunii* (Dur.) Engelm.

Occasional. Shallow water or muddy borders of ponds and streams. July—Sept.

*Isoëtes echinospora* Dur., var. *muricata* (Dur.) Engelm. (beset with short, hard points).

Rare. Groton, in Great Brook (Graves). July—Sept.

Forms approaching this have been found at Union (Bissell), and at Lyme (Graves & Bissell).

*Isoëtes Gravesii* A. A. Eaton.

Local. Muddy border of ponds and streams: Lyme (Graves), Windsor (Bissell), East Haven (W. A. Setchell), Bristol (J. N. Bishop), Plymouth (H. S. Clark & Bissell),

Oxford and Huntington (Harger), Stratford (Eames), Goshen (L. M. Underwood). Aug.—Sept.

**Isoëtes Dodgei** A. A. Eaton.

*Isoëtes canadensis* A. A. Eaton.

*Isoëtes riparia* Engelm., var. *canadensis* Engelm.

Rare or local. Windsor, muddy river bank (Bissell), Fairfield, in Mill River, and Westport, in Saugatuck River (Eames). July — Sept.

**Isoëtes Engelmanni** A. Br.

Occasional. Muddy border of ponds and streams, growing where it would be submerged during high water. July — Sept.

The var. *GRACILIS* Engelm. (slender) has been found at Groton (Graves), Southington (Bissell), Bridgeport and Westport (Eames).

# SPERMATOPHYTA. SEED PLANTS.

## GYMNOSPERMAE.

### TAXACEAE. YEW FAMILY.

#### TAXUS L. Yew.

**Taxus canadensis** Marsh.

*Taxus minor* Britton.

Ground Hemlock. American Yew.

Rocky woods, often under other evergreens. Rare or wanting along the coast, reaching Norwich (Mrs. E. E. Rogers), Guilford, at North Guilford (G. H. Bartlett), Orange (D. C. Eaton), Danbury (Eames); becoming occasional or frequent northward. April—May; fruit July—Aug.

The pulp of the fruit is edible, but all other parts of the plant are poisonous. Drinking a decoction of the leaves has caused death to man, and birds are said to be sometimes poisoned by eating the seeds.

### PINACEAE. PINE FAMILY.

#### PINUS L. Pine.

**Pinus Strobus** L. (classical name for some pine tree).

White Pine.

Woodlands, in various soils and exposures. Occasional near the coast, becoming frequent northward and common in northeastern Connecticut. May—June.

A well known and valuable timber tree; often planted for ornament and for wind-breaks. The bark is medicinal.

**Pinus rigida** Mill. (stiff).

Pitch Pine. Yellow Pine.

Poor, sterile or sandy soils. Rare or local in Litchfield County, frequent elsewhere. May—June.

Usually a small tree, but sometimes growing larger, then yielding a hard resinous lumber.

***Pinus sylvestris* L.** (of woods).

Scotch Pine. Scotch Fir.

Rare or local. Fields, roadsides and woods as an escape from cultivation: New London (Graves), Lyme (Harger & Graves), Southington (Andrews & Bissell), Bridgeport (Eames). May. Native of Europe and Asia.

One of the valuable timber trees of Europe. It thrives in our climate and was formerly often planted. It is of little value as an ornamental tree, but if grown in sufficient quantity might be valuable for timber.

***Pinus resinosa* Ait.** (resinous).

Red Pine.

Rare or local. Rocky woods: Granby (I. Holcomb), Salisbury (Mrs. C. S. Phelps). May—June.

The most beautiful of our native pines and a valuable ornamental tree. One of the timber trees of northern New England.

**LARIX** Mill. Larch.***Larix laricina* (DuRoi) Koch** (larch-like).

*Larix americana* Michx.

Tamarack. Hackmatack. American or Black Larch.

Swamps and bogs. Absent near the coast. Rare in the eastern part of the state: Union (Bissell), Tolland (Graves). Becoming occasional westward and frequent in Litchfield County. May.

The wood is hard, strong, durable in contact with the soil, valuable for posts and railroad ties. The bark is medicinal.

***Larix decidua* Mill.** (falling in season).

*Larix europaea* DC.

European Larch.

Rare. Escaped from cultivation to roadsides, fields and waste ground: Thompson and Union (Bissell), Griswold (Graves), Southington (Andrews & Bissell), Bridgeport (Eames). April—May. Native of northern Europe.

Hardy in almost any location and also producing a valuable timber. A good tree to plant for wind-breaks.

**PICEA** Link. Spruce.**Picea canadensis** (Mill.) BSP.*Picea alba* Link.

Cat Spruce. Skunk Spruce. White Spruce.

Rare. Waterford, a few trees in a pasture as an escape from cultivation (Graves). May. Native in northern New England and farther north.

A good tree for ornamental planting.

**Picea rubra** (DuRoi) Dietr. (red).*Picea nigra* Link, var. *rubra* Engelm.

Red Spruce.

Rare. Cool woods and bogs: Litchfield (N. L. Britton), Canaan (J. H. Putnam), Salisbury (Mrs. C. S. Phelps). May.

**Picea mariana** (Mill.) BSP.*Picea nigra* Link.*Picea brevifolia* Peck.

Black Spruce. Bog Spruce.

Swamps and sphagnum bogs. Rare or local over most of the state but absent near the coast. Usually a small stunted tree 5 to 15 ft. high but growing much larger in the cool swamps of Litchfield County. In open bogs the trees often produce cones when not more than 5 ft. high, and the cones persist on the tree for many years. May.

Northward the lumber is much used in the manufacture of wood pulp. It is the principal source of spruce gum. Medicinal.

**Picea Abies** (L.) Karst. (like *Abies*, the Fir).*Picea excelsa* Link.

Norway Spruce.

Rare or local. Roadsides, fields and woods as an escape from cultivation: Norwich (Mrs. E. E. Rogers), Southington (Andrews), Oxford (Harger), Bridgeport (Eames), Norwalk and Wilton (Miss A. E. Carpenter). May. Native of northern Europe.

Extensively planted for ornament and also for wind-breaks.

**ABIES** Hill. Fir.**Abies balsamea** (L.) Mill. (producing balsam).

Balsam Fir. Balm-of-Gilead Fir.

Rare. Cold swamps and woods: Middlebury (Harger), Goshen (J. H. Putnam & Bissell), Cornwall (E. E. Brewster), Salisbury (Mrs. C. S. Phelps). Also occurs as an escape from cultivation at Woodstock (Weatherby), Andover (Mrs. C. S. Phelps), and Farmington (Miss A. Lorenz). May.

The wood is soft and weak, of little value as timber. Its habit of early losing its lower branches makes it less desirable for ornamental planting than some other species of evergreens. Canada balsam is derived from the resin of its trunk.

**TSUGA** (Endl.) Carr. Hemlock.**Tsuga canadensis** (L.) Carr.

Hemlock.

Usually frequent but rather local in its distribution. Rocky woods and on hillsides in both dry and wet situations. May.

The timber is coarse-grained and brittle, but is used for rough lumber. The bark is much used in tanning. A valuable tree in cultivation for hedges and wind-breaks, and when standing alone a desirable ornamental tree. Medicinal.

**CHAMAECYPARIS** Spach. Cypress. White Cedar.**Chamaecyparis thyoides** (L.) BSP. (like *Thya*, classical name for some fragrant tree).*Chamaecyparis sphaeroidea* Spach.

White Cedar.

In swamps. Rare in western and central districts: Danbury and New Fairfield (P. M. Augur et al.), Wolcott (A. M. Johnson). Becoming occasional or frequent eastward. April.

A slender tree with light and durable wood very valuable for fence posts. It usually grows in dense colonies, choking out other vegetation and forming cedar swamps.

**THUJA** L. Arbor Vitae.**Thuja occidentalis** L. (western).

Arbor Vitae. White Cedar.

Rare. Canaan, on a limestone ridge and in a near-by swamp (C. K. Averill), Salisbury, rocky hillside and at another locality in a deep swamp (Mrs. C. S. Phelps); apparently native at these three localities. Escaped from cultivation to fields and roadsides at Norwich (Mrs. E. E. Rogers), East Hartford (A. W. Driggs), Killingly and Windsor (Bissell). April — May.

Often planted for hedges or as an ornamental tree. A valuable timber tree in northern New England. Medicinal, the fresh tops officinal.

### JUNIPERUS L. Juniper.

#### *Juniperus communis* L. (growing in colonies).

Common Juniper.

Rare. Norwich, near Spaulding's Pond (Mrs. E. E. Rogers). May.

#### *Juniperus communis* L., var. *depressa* Pursh (sunk down, as if flattened from above).

*Juniperus nana* of Britton's Manual in part.

*Juniperus communis* L., var. *canadensis* Loud.

*Juniperus communis* L., var. *alpina* Gray's Manual ed. 6 in part.

Common Juniper.

Frequent. Dry rocky pastures and sterile hills. May.

The fruit often does not ripen until the second summer. The oil of juniper, distilled from the fruit, is officinal. This is medicinal, as are the tops or young branches, and is also an essential constituent of Holland gin.

#### *Juniperus virginiana* L.

Red Cedar. Savin.

Common. Dry or sterile soils. April — May.

The wood is light, very durable in contact with the soil, and much used for fencing. It is also used for boat building and cabinet work. The so called "cedar-apples" found on its branches are sometimes used medicinally, and are causative of rust on apple trees.



## ANGIOSPERMAE.

### MONOCOTYLEDONEAE.

#### TYPHACEAE. CAT-TAIL FAMILY.

##### TYPHA L. Cat-tail Flag.

##### **Typha latifolia** L. (broad-leaved).

Common Cat-tail.

Frequent. Wet swamps, margins of streams and ponds, often in large colonies. June—July; fruit Oct., persisting through the winter.

The heads are often used for decorative purposes and also make a fluffy stuffing for pillows, etc. The roots are sometimes used medicinally.

##### **Typha angustifolia** L. (narrow-leaved).

Cat-tail.

Occasional in fresh-water marshes near the coast, also found inland at Oxford (Harger), and Salisbury (Mrs. C. S. Phelps); common along the coast in salt or brackish marshes. June; fruit Oct., persisting through the winter.

#### SPARGANIACEAE. BUR-REED FAMILY.

##### SPARGANIUM L. Bur-reed.

##### **Sparganium eurycarpum** Engelm. (broad-fruited).

Borders of ponds and streams. Rare or local over most of the state: Groton and Lyme (Graves), East Hartford (A. W. Driggs), Oxford (Harger), Windsor and Sharon (Bissell). Becoming occasional along the coast in New Haven and Fairfield Counties (Eames). July — Aug.

##### **Sparganium americanum** Nutt.

*Sparganium simplex* Huds., var. *Nuttallii* Engelm.

Rare or occasional. Shallow water and borders of ponds and streams: Voluntown and East Lyme (Graves), Union (Bissell), Hampton (Weatherby). July — Aug.

**Sparganium americanum** Nutt., var. **androcladum** (Engelm.)  
Fernald & A. J. Eames (having the staminate inflores-  
cence branched).

*Sparganium androcladum* Morong.

*Sparganium simplex* Huds., var. *androcladum* Engelm.

Occasional or frequent. Marshes, about ponds and along  
streams. July — Aug.

**Sparganium lucidum** Fernald & A. J. Eames (shining).

Rare. Shallow water of pool, Hartford (H. S. Clark &  
Weatherby). Late Aug.—Sept.

**Sparganium diversifolium** Graebner (various-leaved).

*Sparganium simplex* Gray's Manual ed. 6 in great part.

Occasional. Borders of ponds and streams. July — Aug.

**Sparganium diversifolium** Graebner, var. **acaule** (Beeby)  
Fernald & A. J. Eames (stemless).

Rare. Wet places with the typical form. July — Aug.

**Sparganium angustifolium** Michx. (narrow-leaved).

*Sparganium simplex* Huds., var. *angustifolium* Engelm.

Rare. Floating in deep water: Canaan (J. W. Robbins,  
1828). July — Aug.

**Sparganium fluctuans** (Morong) Robinson (undulating).

*Sparganium androcladum* Morong, var. *fluctuans* Morong, at  
least in part.

*Sparganium simplex* Huds., var. *fluitans* Engelm.

Rare. Deep water of cold ponds: Norfolk (J. W. Rob-  
bins). July — Aug.

**Sparganium minimum** Fries (least; smallest).

Rare. Shallow water and mud of Twin Lakes, Salisbury  
(Mrs. C. S. Phelps, A. V. Osmon & Bissell). July — Aug.

## NAJADACEAE. PONDWEED FAMILY.

### POTAMOGETON L. Pondweed.

**Potamogeton natans** L. (floating).

In ponds and slow streams. Rare or local over most of  
the state: Southington (Andrews & Bissell), Oxford (Har-  
ger), Salisbury (Mrs. C. S. Phelps, A. V. Osmon & Bissell).  
Frequent in New London County (Graves). July — Aug.

**Potamogeton Oakesianus** Robbins.

Rare. In ponds: Stafford (E. L. Morris), Middlebury (Harger). Aug.

**Potamogeton epihydrus** Raf. (living on the water).

*Potamogeton Nuttallii* C. & S.

*Potamogeton pennsylvanicus* Willd.

Common. Ponds and slow or swift running streams. June — Aug.

**Potamogeton epihydrus** Raf., var. **cayugensis** (Wiegand) Benn.

*Potamogeton Nuttallii* C. & S., var. *cayugensis* Wiegand.

Rare. Lyme, in Selden's Cove (Graves & Bissell), Hamden, in Lake Whitney (Eames). July — Aug.

**Potamogeton alpinus** Balbis (alpine).

*Potamogeton rufescens* Schrad.

Rare. Plainville, in cold spring water near Hamlin's Pond (Andrews & Bissell). July — Aug.

**Potamogeton americanus** C. & S.

*Potamogeton lonchites* Tuckerm.

*Potamogeton fluitans* Gray's Manual ed. 6, not Roth.

Local. In the Connecticut River and adjoining coves and creeks at Lyme (Graves); also at New Haven (D. C. Eaton), Hartford (J. W. Robbins, A. W. Driggs), Westport, in the Saugatuck River; also in the Housatonic River near its mouth and at New Milford (Eames), and at Oxford (Harger). July — Sept.

**Potamogeton americanus** C. & S., var. **novaeboracensis** (Morong) Benn.

*Potamogeton lonchites* Tuckerm., var. *novaeboracensis* Morong.

Rare. Lyme, in deep water at Selden's Cove (Graves & Bissell). July — Aug.

**Potamogeton pulcher** Tuckerm. (beautiful; handsome).

Rare. In ponds: East Lyme, Old Lyme and Lyme (Graves), Bridgeport (Eames). June — July.

**Potamogeton amplifolius** Tuckerm. (large-leaved).

Occasional. Ponds and sluggish streams. July — Aug.

**Potamogeton heterophyllus** Schreb. (various-leaved).

Occasional or local. Ponds and either slow or swift flowing streams. July — Aug.

The forma *GRAMINIFOLIUS* (Fries) Morong (grassy-leaved) occurs at Lake Saltonstall (O. D. Allen). The forma *LONGIPEDUNCULATUS* (Mérat) Morong (long-stalked) has been found at Selden's Cove, Lyme (Graves). The forma *MYRIOPHYLLUS* (Robbins) Morong (myriad-leaved) occurs at Lake Saltonstall (O. D. Allen), and Twin Lakes, Salisbury (Bissell). The forma *MAXIMUS* Morong (greatest) has been found in the Connecticut River at East Windsor (Bissell), and in Lake Whitney, Hamden (O. D. Allen). The forma *TERRESTRIS* Schlecht. (terrestrial) is often found along borders of ponds and streams in dry seasons.

**Potamogeton angustifolius** Berchtold & Presl (narrow-leaved).

Rare. Oxford, in the Housatonic River (Harger). July — Aug.

The var. *CONNECTICUTENSIS* (Robbins) Benn., *Potamogeton lucens* L., var. *connecticutensis* Robbins, occurs rarely in ponds, lakes and rivers: Lake Saltonstall (J. W. Robbins); in the Housatonic River at New Milford (E. H. Austin & Eames) and Kent (C. K. Averill); also in Twin Lakes, Salisbury (Bissell).

**Potamogeton lucens** L. (shining).

Rare. Ponds and slow streams: Lyme, at Selden's Cove (Graves), Meriden (Harger), Salisbury (Bissell). July — Aug.

**Potamogeton praelongus** Wulf. (very long).

Local. Deep water of ponds and streams: North Branford and Wallingford (Harger), Lake Saltonstall (J. A. Allen), Westport and Kent (Eames), Litchfield (Dr. T. Morong), Canaan (J. W. Robbins). June — July.

**Potamogeton Richardsonii** (Benn.) Rydb.

*Potamogeton perfoliatus* L., var. *lanceolatus* Robbins.

*Potamogeton perfoliatus* L., var. *Richardsonii* Benn.

Common. Ponds and streams. June — July.

**Potamogeton bupleuroides** Fernald (like *Bupleurum*, the Thorough-wax).

*Potamogeton perfoliatus* Gray's Manual ed. 6 in part, not L.

In ponds, streams and brackish waters. Occasional near the coast, extending inland as far as East Windsor (Bissell).  
July — Aug.

× **Potamogeton nitens** Weber (shining).

Rare. Old Saybrook, small pond near the Connecticut River (Harger). This is apparently a hybrid between *Potamogeton heterophyllus* and some other species, and is not known to produce fruit.

**Potamogeton zosterifolius** Schum. (having leaves like *Zostera*, the Eel Grass).

Rare or occasional. Ponds and streams. July — Aug.

**Potamogeton Hillii** Morong.

Rare. Salisbury, in Twin Lakes (Bissell). July — Aug.

**Potamogeton obtusifolius** Mert. & Koch (blunt-leaved).

Rare. Newtown, in shallow water of a mill pond (Eames).  
July — Aug.

**Potamogeton Friesii** Ruprecht.

*Potamogeton mucronatus* Gray's Manual ed. 6, not Schrad. (?).

Rare. Southington, in pools (Andrews). July — Aug.

**Potamogeton pusillus** L. (very small).

Frequent. Ponds and slow streams. July — Sept.

**Potamogeton pusillus** L., var **Sturrockii** Benn.

Rare. In ponds: Waterford (Graves), Lake Saltonstall (O. D. Allen). July — Sept.

**Potamogeton lateralis** Morong (lateral).

Rare. Collected at Salisbury many years ago by Dr. J. W. Robbins; not reported by any recent collector. July — Aug.

**Potamogeton Vaseyi** Robbins.

Rare. Ponds and lakes: Lake Saltonstall (O. D. Allen, J. A. Allen, Eames), Milford (Eames), Plymouth (J. K. Goodrich). July — Aug.

**Potamogeton gemmiparus** Robbins (producing buds).

Rare. Union, shallow water of Mashapaug Pond (Bissell). July — Aug.

**Potamogeton foliosus** Raf. (leafy).

*Potamogeton pauciflorus* Pursh.

Rare or local. Ponds and slow streams: Voluntown (Harger), Southington (Andrews & Bissell), Newtown (Eames), New Milford (C. K. Averill), Sharon and Salisbury (Bissell). July — Aug.

**Potamogeton hybridus** Michx. (mongrel).

*Potamogeton diversifolius* Raf.

Occasional. In ponds. July — Aug.

The var. MULTI-DENTICULATUS (Morong) Asch. & Graebner (with many fine teeth) has been found at Groton (T. Morong), Griswold (Harger), Milford and Stratford (Eames).

**Potamogeton dimorphus** Raf. (of two forms).

*Potamogeton Spirillus* Tuckerm.

Frequent. Ponds and streams. June — Aug.

Floating leaves often wanting.

**Potamogeton pectinatus** L. (comb-like).

Rare or local. Ponds, streams and ditches: Hartford (D. C. Eaton), East Windsor and Salisbury (Bissell), Oxford (Harger), Stratford, New Milford and Kent (Eames). July — Sept.

**Potamogeton Robbinsii** Oakes.

Occasional or local. Ponds, ditches and slow streams. July — Aug.

This species very rarely forms fruit.

**RUPPIA** L. Ditch Grass.**Ruppia maritima** L. (of the sea-coast).

Ditch Grass.

Frequent in shallow water of pools, creeks and ditches about salt or brackish marshes along the coast. July — Oct.

**ZANNICHELLIA** L. Horned Pondweed.**Zannichellia palustris** L. (of marshes).

Horned Pondweed.

Occasional in salt or brackish water along the coast, and in the Housatonic River northward as far as New Milford (C. K. Averill). July — Sept.

**ZOSTERA L.** Grass Wrack. Eel Grass.

**Zostera marina L.** (of the sea).

Eel Grass.

Common along the coast in bays, salt rivers and creeks, growing on muddy or sandy bottoms. July — Sept.

Extensively used by farmers as a fertilizer.

**NAJAS L.** Naiad.

**Najas flexilis** (Willd.) Rostk. & Schmidt (flexible).

Frequent. Ponds and slow streams. July — Sept.

**Najas gracillima** (A. Br.) Magnus (very slender).

*Najas indica* Cham., var. *gracillima* A. Br.

Rare or local. In ponds: East Lyme and Lyme (Graves), Stafford (Bissell), Milford, Bridgeport and Newtown (Eames), Danbury (Eames & C. C. Godfrey). July — Sept.

## JUNCAGINACEAE. ARROW GRASS FAMILY.

### SCHEUCHZERIA L.

**Scheuchzeria palustris L.** (of marshes).

Rare. Cool sphagnum bogs: South Windsor (Weatherby), Burlington (J. N. Bishop), East Granby (M. Hitchcock), Bethany and Woodbury (Harger), Litchfield (A. L. Train), Salisbury (Mrs. C. S. Phelps & Bissell). June — July.

**TRIGLOCHIN L.** Arrow Grass.

**Triglochin maritima L.** (of the sea).

Frequent in salt marshes along the coast. June — Aug.

## ALISMACEAE. WATER PLANTAIN FAMILY.

### SAGITTARIA L.

 Arrow-head.

**Sagittaria longirostra** (M. Micheli) J. G. Smith (long-beaked).

Rare. Groton, swampy border of pond (Harger). July — Sept.

**Sagittaria latifolia** Willd. (broad-leaved).*Sagittaria variabilis* Engelm.

Frequent or common. Marshes and shallow water of ponds and streams. Aug.—Sept.

The forma *OBTUSA* (Muhl.) Robinson (blunt), *Sagittaria obtusa* Muhl., is occasional; the forma *HASTATA* (Pursh) Robinson (halberd-shaped), *Sagittaria hastata* Pursh, and the forma *GRACILIS* (Pursh) Robinson (slender), *Sagittaria gracilis* Pursh, are frequent. The forma *DIVERSIFOLIA* (Engelm.) Robinson (various-leaved), *Sagittaria variabilis* Engelm., var. *diversifolia* Engelm., is rare.

**Sagittaria Engelmanniana** J. G. Smith.*Sagittaria variabilis* Engelm., var. *gracilis* Engelm.

Rare. Bogs and wet meadows: Waterford, Voluntown and East Lyme (Graves), Lyme (Dr. E. J. Thompson). Aug.—Sept.

**Sagittaria arifolia** Nutt. (arum-leaved).*Sagittaria cuneata* Sheldon.

Rare. Wet alluvial soil on the banks of the Connecticut River: Windsor and Hartford (Bissell). June—July.

**Sagittaria heterophylla** Pursh (various-leaved).

Rare or local. Muddy river shores: Norwich (W. A. Setchell), Lyme (Graves), Wethersfield (C. Wright), East Windsor (Bissell), Windsor (H. S. Clark), Hartford (H. S. Clark & Bissell), Bloomfield (A. W. Driggs), Seymour and Derby (Harger). June—July.

The var. *RIGIDA* (Pursh) Engelm. (stiff), *Sagittaria rigida* Pursh, and the var. *ELLIPTICA* Engelm. (oval) sometimes occur with the species.

**Sagittaria graminea** Michx. (grass-like).*Sagittaria Eatoni* J. G. Smith.*Sagittaria cristata* Engelm.

Occasional or local. Muddy shores of ponds and streams. June—Aug.

**Sagittaria subulata** (L.) Buchenau (awl-shaped).*Sagittaria pusilla* Nutt.*Sagittaria natans* Michx., var. *lorata* Chapm.



Rare or local. Lyme, muddy shore of Selden's Cove (Dr. E. J. Thompson); mud of lower Housatonic River and smaller streams along the coast in Fairfield County (Eames). July — Sept.

**Sagittaria subulata** (L.) Buchenau, var. (?) **gracillima** (Wats.) J. G. Smith (very slender).

*Sagittaria natans* Michx., var. (?) *gracillima* Wats.

Rare. East Windsor and Windsor, rock ledges in the bed of the Connecticut River, in 3-6 ft. of water (Bissell). July.

### LOPHOTOCARPUS Th. Durand.

**Lophotocarpus spongiosus** (Engelm.) J. G. Smith (spongy).  
*Sagittaria calycina* Engelm., var. *spongiosa* Engelm.

Muddy tidal shores and meadows. Rare at Old Lyme (Graves) and New Haven (D. C. Eaton, Harger); occasional, Milford and westward (Eames). June — Sept.

### ALISMA L. Water Plantain.

**Alisma Plantago-aquatica** L. (water-plantain).  
Water Plantain.

Common. Muddy places and shallow water. July — Aug.

### HYDROCHARITACEAE. FROG'S BIT FAMILY.

#### ELODEA Michx. Water-weed.

**Elodea canadensis** Michx.  
*Philotria canadensis* Britton.  
Ditch Moss.

Frequent. Ponds and slow streams. July — Sept.  
Sometimes so plentiful as to be a nuisance in reservoirs.

#### VALLISNERIA L. Tape Grass. Eel Grass.

**Vallisneria spiralis** L. (coiled).  
Eel Grass. Wild Celery.

Common in the waters of the Connecticut and Housatonic Rivers and their larger tributaries. It also grows in Hatch Pond, Kent (Eames), and in the Thames River at Norwich (W. A. Setchell, Mrs. E. E. Rogers). July — Sept.

## GRAMINEAE. GRASS FAMILY.

## ZEA L. Corn.

**Zea Mays** L. (Indian name for this species).

Corn. Indian Corn. Maize.

Rare. A fugitive in waste grounds and on dumps or banks of streams. July — Aug. Nativity unknown but supposed to be from Mexico.

One of the most important cereals of the United States.

## TRIPSACUM L. Gama Grass. Sesame Grass.

**Tripsacum dactyloides** L. (finger-like).

Gama Grass. Sesame Grass.

Moist or dry open ground bordering salt or brackish marshes and creeks. Groton (Graves) and occasional along the coast westward. July — Aug.

A large corn-like grass, sometimes used for fodder in the South.

## ANDROPOGON L. Beard Grass.

**Andropogon scoparius** Michx. (broom-like).

Broom Beard Grass. Wire Grass. Bunch Grass. Blue-stem.

Common. Open sterile ground, often covering large areas on the sand plains. Aug.—Sept. A glaucous form is frequent.

A dry wiry grass of little agricultural value in Connecticut, but notable for its beautiful color in autumn and winter. In the South and West it is considered of some value for pasturage.

**Andropogon scoparius** Michx., var. *littoralis* (Nash) Hitchc. (of the sea-shore).

*Andropogon littoralis* Nash.

Rare. Fairfield, sparingly on Fairfield Beach (Eames). Aug.—Sept.

**Andropogon virginicus** L.

Dry or moist open ground. Rare or local inland, becoming occasional near the coast. Late Aug.—Sept.

**Andropogon furcatus** Muhl. (forked).

Forked Beard Grass. Big Blue-stem. Turkey-foot.

Frequent. Open ground, generally in dry soil. Aug.—Sept.

A tall and striking grass, growing in large clumps. It is of value for hay and pasturage in some localities in the United States.

### SORGHASTRUM Nash.

**Sorghastrum nutans** (L.) Nash (nodding).

*Sorghastrum avenaceum* Nash.

*Chrysopogon nutans* Benth.

*Chrysopogon avenaceus* Benth.

Indian Grass. Wood Grass.

Occasional or frequent. Open, usually dry ground. Aug.—Sept.

A tall grass, growing in clumps and with beautiful golden brown flower-panicles.

### SORGHUM Pers. Broom Corn. Sorghum.

**Sorghum halepense** (L.) Pers.

Johnson Grass.

Rare. Waterbury, in waste ground (A. E. Blewitt). Aug.—Sept. Fugitive from the Old World. A cultivated form of this called Kaffir Corn has been found in waste ground at Hartford (H. S. Clark).

This species is supposed to be the original of the several forms of Sorghum which are cultivated for sugar-making, for use in the manufacture of brooms, for forage and for their seeds.

### DIGITARIA Scop. Finger Grass.

**Digitaria filiformis** (L.) Koeler (thread-shaped).

*Panicum filiforme* L.

*Syntherisma filiformis* Nash.

Frequent. Dry sterile open ground. Aug.—Sept.

**Digitaria humifusa** Pers. (spread over the ground; prostrate).

*Panicum glabrum* Gaudin.

*Syntherisma linearis* Nash.

Small Crab Grass.

Occasional or frequent. Dry or moist fields, roadsides and waste places. Aug.—Sept. Naturalized from Europe.

**Digitaria sanguinalis** (L.) Scop. (blood-red).*Panicum sanguinale* L.*Syntherisma sanguinalis* Dulac.*Syntherisma fimbriata* Nash.

Crab Grass. Large Crab Grass. Finger Grass. Crowfoot Grass.

Common. Waste places and cultivated ground. July—Oct. Naturalized from Europe.

A troublesome weed in gardens and lawns. It makes good hay if properly dried, and in the South is often harvested. In Bohemia the seeds are used by man as a food.

**LEPTOLOMA** Chase.**Leptoloma cognatum** (Schultes) Chase (related).*Panicum autumnale* Bosc.

Fall Witch Grass.

Rare. New Haven, in dry ground and in gravelly soil (R. W. Woodward). July.

**PASPALUM** L.**Paspalum setaceum** Michx. (bristle-like).

Fields and pastures, mostly in dry ground. Rare in the northern part of the state, becoming occasional near the coast. A form with glabrous spikelets sometimes occurs. Aug.—Sept.

**Paspalum Muhlenbergii** Nash.

Frequent or common. Dry open ground. Aug.—Sept.

**Paspalum psammophilum** Nash (sand-loving).*Paspalum prostratum* Nash, not Scribn. & Merr.

Rare. Dry sandy or gravelly soil: Sprague (Graves), Franklin (R. W. Woodward), Old Saybrook (Bissell &amp; Graves). Aug.—Sept.

**Paspalum plenipilum** Nash (having many hairs).

Rare. Orange, in meadows (R. W. Woodward). Sept.

**Paspalum circulare** Nash (round).

Rare. Groton, moist grassland (Bissell &amp; Graves), Franklin (R. W. Woodward). Sept.

**PANICUM** L. Panic Grass.

A large genus, made up for the most part of lowly grasses of little or no agricultural value, but of much scientific interest.

**Panicum verrucosum** Muhl. (warted).

Rare. New Haven, in damp shaded ground (Harger).  
Sept.—Oct.

**Panicum capillare** L. (hair-like).

Old-witch Grass. Tumble-weed. Tickle Grass.

Common. Cultivated ground and waste places. July—  
Sept.

**Panicum philadelphicum** Bernh.

*Panicum minus* Nash, according to description.

*Panicum minimum* Scribn. & Merr.

Dry woods and thickets and on sandy shores of ponds and rivers. Rare in New London County (Graves); occasional in southwestern Connecticut (Eames); extending up the Connecticut River as far as East Windsor (Bissell). Aug.—Sept.

**Panicum miliaceum** L. (millet).

Common, True, European or Broom Corn Millet.

Rare or occasional. Roadsides and waste places in and about towns and cities. Aug.—Sept. Fugitive or adventive from Europe.

The seeds are highly nutritious and are used in some countries as human food; also in domestic medicine. The grain is excellent for feeding poultry. In the Old World it has been cultivated from prehistoric times.

**Panicum dichotomiflorum** Michx. (having its flower-stalks forked in pairs).

*Panicum proliferum* of American authors, not Lam.

Occasional or frequent. Chiefly in moist ground, especially on borders of ponds and rivers. Aug.—Sept.

**Panicum amaroides** Scribn. & Merr. (like *Panicum amarum*).

*Panicum amarum* Ell., var. *minor* Vasey & Scribn.

Sea beaches and sand dunes. Rare or local on the coast eastward: Old Lyme (Graves), Guilford (Dr. Barratt). Becoming occasional along the Sound westward. Aug.—Oct.

**Panicum virgatum** L. (wand-like).

Switch Grass. Tall Panic Grass.

In either moist or dry ground. Common along the coast and the larger rivers, rare or occasional elsewhere. July—Sept.

A handsome grass forming large, dense clumps and with ample flower panicles sometimes 30 inches long. If cut early it makes a fair quality of hay and it is also of some value as a forage plant.

**Panicum longifolium** Torr. (long-leaved).

Rare or local. Open moist ground near the coast: Groton and Montville (Graves), Fairfield (Eames). Aug.—Sept.

**Panicum agrostoides** Spreng. (like *Agrostis*, the Red Top).

Common. Low meadows and wet open grounds. July—Sept.

**Panicum stipitatum** Nash (stalked).

Rare. Lyme, wet meadow at Selden's Cove (Graves & Bissell). Aug.

**Panicum depauperatum** Muhl. (impoverished).

Frequent. Dry sterile or sandy ground. June—early July.

**Panicum linearifolium** Scribn. (narrow-leaved).

*Panicum Enslini* of Britton's Manual.

Common. Dry fields and in sandy or sterile places. June—early July.

**Panicum Werneri** Scribn.

Rare or local. Chiefly in open, dry, sandy or gravelly soil, sometimes in thickets or open sandy woods: Voluntown, Ledyard and Waterford (Graves), Franklin (R. W. Woodward & Graves). June—July.

**Panicum Bicknellii** Nash.

*Panicum nemopanthum* Ashe.

*Panicum Bushii* Nash.

Rare. Rocky woodlands: Norwich (Graves), New Haven (R. W. Woodward). June.

**Panicum dichotomum** L. (forked in pairs).

Frequent or common. Dry woods and thickets. June—July.

**Panicum barbulatum** Michx. (having a little beard).

Occasional. Rocky woods and thickets usually in dry soil.

June—July.

**Panicum microcarpon** Muhl. in Ell. (small-fruited).

*Panicum barbulatum* of American authors, not Michx.

Frequent. Low moist or wet thickets and open places.

June—July.

**Panicum boreale** Nash (northern).

Open bogs, wet meadows and moist sandy thickets. Apparently rare in southern Connecticut: Griswold and Waterford (Graves), Franklin (R. W. Woodward & Graves), Southington (Andrews, Bissell), Oxford and Monroe (Harger). Probably occasional in the northern part of the state.

June—July.

**Panicum spretum** Schult. (despised).

*Panicum nitidum* of recent American authors, not Lam.

*Panicum Eatoni* Nash.

Rare. Low meadows and sandy shores of ponds: Groton and East Lyme (Graves), Columbia (Weatherby & Mrs. C. S. Phelps). June—July.

**Panicum Lindheimeri** Nash.

*Panicum nitidum* Scribn. & Merr. in part.

Dry sterile open ground. Occasional or frequent in southeastern and southwestern Connecticut, apparently rare elsewhere: East Hartford (Weatherby), Southington (Andrews).

June—July.

**Panicum huachucae** Ashe.

*Panicum unciphyllum* of recent American authors, not Trin.

*Panicum pubescens* of Britton's Manual.

Common. Fields, woods and thickets usually in dry or sandy places. June—July.

**Panicum huachucae** Ashe, var. **silvicola** Hitchc. & Chase (living in woods).

*Panicum lanuginosum* of recent American authors in part.

Occasional or frequent. Woods and shaded ground in either dry or wet soil. June—July.

**Panicum implicatum** Scribn. (entangled).

*Panicum unciphyllum* Trin., var. *implicatum* Scribn. & Merr.

Swamps and in wet sandy places. Rare in most parts of the state, but occasional in southwestern Connecticut. June — July.

**Panicum meridionale** Ashe (southern).

*Panicum filiculme* Ashe, not Hack.

*Panicum unciphyllum* Trin., var. *meridionale* Scribn. & Merr.

Rare or occasional. Dry or sterile soil in woods or in open ground. June — July.

**Panicum oricola** Hitchc. & Chase (an inhabitant of the shore.)

Rare. Barren sands along the shore of the Sound: Grotton (Bissell). Probably occurring at other points on the coast. June — Aug.

**Panicum subvillosum** Ashe (somewhat hairy).

Rare. Dry sandy ground: Tolland and Southington (Bissell), East Hartford (Weatherby). June — July.

**Panicum tennesseense** Ashe.

Occasional or frequent. Woods and shaded ground more often in moist soil. June — July.

**Panicum albemarlense** Ashe.

*Panicum auburne* Gray's Manual ed. 7 in part.

Rare. Dry sandy woods: Waterford, at Fog Plain (Graves). June — July.

**Panicum scoparioides** Ashe (like *Panicum scoparium*).

Rare. Woods or half shade in dry gravelly soil: Southington (Bissell). June — July.

**Panicum pseudopubescens** Nash (simulating *Panicum pubescens*).

*Panicum ovale* Gray's Manual ed. 7 in part.

Rare. Southbury, alluvial ground on banks of the Pomperaug River (Harger). June — July.

**Panicum villosissimum** Nash (very hairy).

*Panicum atlanticum* Nash.

*Panicum xanthospermum* Scribn. & Mohr.

*Panicum haemacarpum* Ashe.

Rare. Dry rocky woods and hillsides or in meadows:



Franklin (Graves, R. W. Woodward), Old Lyme (Graves), East Hartford (Weatherby), Southington (Andrews), Southbury (Harger). June—July.

**Panicum Commonsianum** Ashe.

Rare. Dry sandy or gravelly soil: East Lyme (Graves), South Windsor (Weatherby). June.

**Panicum Addisonii** Nash.

Rare. Sandy plains: East Lyme (Graves), East Hartford (Weatherby). June.

**Panicum tsugetorum** Nash (of hemlocks).

Occasional or frequent. Dry fields and woods. June—July.

**Panicum columbianum** Scribn.

*Panicum psammophilum* Nash.

Occasional or frequent. Dry sandy fields and thickets. June—July.

**Panicum sphaerocarpon** Ell. (round-fruited).

Frequent to common. Fields, pastures and roadsides in dry ground. June—Aug.

**Panicum Ashei** Pearson.

*Panicum commutatum* Scribn. & Merr., not R. & S.

Rare or occasional. Dry, often rocky woods. June—July.

**Panicum Scribnerianum** Nash.

*Panicum scoparium* Gray's Manual ed. 6, not Lam.

Common. Dry open sterile ground. June—July.

**Panicum xanthophysum** Gray (having yellow bladders; referring to the yellowish fruit).

Rare. Dry open woods or sandy places: Stafford (Graves), South Windsor (H. J. Koehler & A. W. Driggs). July—Aug.

**Panicum clandestinum** L. (concealed).

Corn Grass. Deer-tongue Grass.

Common. Moist or dry soil in open or partly shaded places. June—July.

**Panicum Boscii** Poir.*Panicum Porterianum* Nash.*Panicum latifolium* of American authors, not L.

Rare or occasional. Dry rocky woodlands. June—July.

**Panicum Boscii** Poir., var. **molle** (Vasey) Hitchc. & Chase  
(soft).*Panicum latifolium* L., var. *molle* Vasey.*Panicum pubifolium* Nash.

Dry woods and thickets, usually in rocky ground. Occasional or local near the coast, becoming rare inland. June—July.

**Panicum latifolium** L. (broad-leaved).*Panicum macrocarpon* Le Conte.

Occasional or frequent. Woods and thickets, mostly in dry ground. June—Aug.

**ECHINOCHLOA** Beauv.**Echinochloa crusgalli** (L.) Beauv. (cock-spur).*Panicum crusgalli* L.

Barnyard Grass. Corn Grass. Cockspur or Cocksfoot Grass.

Common. Cultivated ground, mostly in manured soil, waste places and banks of streams. July—Sept. Naturalized from Europe.

Sometimes troublesome as a weed in cultivated ground, but useful as a forage plant and for the silo.

**Echinochloa frumentacea** (Roxb.) Link (producing grain).

Japanese Barnyard Millet or Grass. Billion-Dollar Grass.

Rare. Escaped from cultivation to fields and roadsides: Southington (Andrews), Salisbury (Mrs. C. S. Phelps). July—Sept. Fugitive from the Old World.

In cultivation as a forage plant. In India it is grown under the name of Sowna Millet for its grain which is there used as human food.

**Echinochloa Walteri** (Pursh) Nash.*Panicum crusgalli* L., var. *hispidum* Torr.*Panicum Walteri* Pursh.

Ditches, marshes and river banks. Occasional or frequent

along the coast and the larger streams ; rare elsewhere. July — Sept.

**SETARIA** Beauv. Bristly Foxtail Grass.

**Setaria imberbis** R. & S. (beardless), var. **perennis** (Hall) Hitchc. (perennial).

*Chaetochloa versicolor* Bicknell.

Perennial Foxtail Grass.

Occasional or frequent on the coast on borders of salt marshes. Aug.— Sept.

**Setaria glauca** (L.) Beauv. (glaucous).

*Chaetochloa glauca* Scribn.

*Ixophorus glaucus* Nash.

Foxtail. Pigeon Grass. Twitch Grass.

Common. Cultivated ground and waste places. July — Sept. Naturalized from Europe.

Often a troublesome weed in gardens.

**Setaria verticillata** (L.) Beauv. (whorled).

*Chaetochloa verticillata* Scribn.

*Ixophorus verticillatus* Nash.

Rough Foxtail Grass.

Rare or local. Roadsides and waste places in towns and cities. July — Sept. Naturalized from Europe.

**Setaria viridis** (L.) Beauv. (green).

*Chaetochloa viridis* Scribn.

*Ixophorus viridis* Nash.

Green Foxtail. Bottle Grass.

Frequent to common. Cultivated ground and waste places. June — Aug. Naturalized from Europe.

A weed in gardens and cultivated fields.

**Setaria italica** (L.) Beauv.

*Chaetochloa italica* Scribn.

*Ixophorus italicus* Nash.

Common, Italian or German Millet. Hungarian Grass.

Rare or occasional. Escaped from cultivation to roadsides and waste places. Aug.— Sept. Adventive from Europe.

The var. GERMANICA (Mill.) Richter, Golden-Wonder Millet, occurs rarely.

Often grown for fodder. In the Old World from ancient times grown for human food.

**CENCHRUS** L. Sandbur.

**Cenchrus carolinianus** Walt.

*Cenchrus tribuloides* of American authors, not L.  
Sandbur. Hedgehog or Bur Grass.

Local, frequent or common. Dry sandy or gravelly fields and waste ground. July — Aug.; fruit Aug.—Sept.  
Sometimes a troublesome weed.

**ZIZANIA** L. Water or Indian Rice.

**Zizania palustris** L. (of marshes).

*Zizania aquatica* of Manuals, not L.  
Wild Rice. Water Oats.

Local or frequent. Shallow water of tidal rivers and large streams, especially near the coast; sometimes in ponds as at Hatch Pond, Kent (Eames). July — Aug.; fruit Sept.—Oct.

A highly ornamental grass. The seeds are very nutritious, and are said to be superior to the Oriental rice. They are greedily eaten by ducks and other birds; also extensively gathered for food by the Indians of the Northwest and sold by them in the markets.

**LEERSIA** Sw. White Grass. Cut Grass.

**Leersia virginica** Willd.

*Homalocenchrus virginicus* Britton.  
Cut Grass. Scratch Grass.

Frequent. Wet woods, swamps and moist places. Aug.

**Leersia oryzoides** (L.) Sw. (like *Oryza*, the Rice).

*Homalocenchrus oryzoides* Poll.

Rice Cut Grass. Scratch Grass. False Rice.

Frequent. Swamps, along streams and in ditches. Aug.—Sept.

It makes a fair quality of hay.

**PHALARIS** L. Canary Grass.

**Phalaris canariensis** L.

Canary Grass.

Rare or occasional. Roadsides and waste places. June — Oct. Fugitive or adventive from Europe.

The seeds are used as food for cage birds, and mixed with wheat or rye are also used in some countries for bread making.

**Phalaris arundinacea** L. (reed-like).

Reed Canary Grass. Sword Grass. Spires Grass.

In swamps and along streams. Rare or occasional in the western part of the state; becoming frequent eastward. June—July.

The var. *PICTA* L. (painted), Ribbon Grass, is a horticultural form often cultivated for ornament, and it sometimes escapes to roadsides and waste places. The variety is introduced from Europe.

A striking grass adapted for planting in wet ground.

**ANTHOXANTHUM** L. Sweet Vernal Grass.

**Anthoxanthum odoratum** L. (fragrant).

Sweet Vernal Grass.

Common. Roadsides, fields, meadows, borders of woods and in waste places. May—June. Native of Europe.

Very fragrant in drying. Used in basket making.

**HIEROCHLOË** R. Br. Holy Grass.

**Hierochloë odorata** (L.) Wahlenb. (fragrant).

*Hierochloë borealis* R. & S.

*Savastana odorata* Scribn.

*Savastana Nashii* Bicknell.

Vanilla or Seneca Grass.

Rare or occasional inland: Franklin (R. W. Woodward), Southington (Andrews), Southbury (Eames & Harger), Sherman (Eames & E. H. Austin), Salisbury (Mrs. C. S. Phelps). Becoming frequent about the borders of salt and brackish marshes along the coast. May—June.

A very fragrant grass, used by the Indians in basket making. In northern Europe this and other sweet-scented grasses are strewn before the church doors on Saints' days.

**ORYZOPSIS** Michx. Mountain Rice.

**Oryzopsis pungens** (Torr.) Hitchc. (sharp-pointed).

*Oryzopsis canadensis* of Gray's Manual ed. 6.

*Oryzopsis juncea* BSP.

Rare. Dry woodlands: Voluntown (R. W. Woodward),

Preston (Graves), Thompson (Harger), Stafford (Weatherby & Bissell). May.

**Oryzopsis asperifolia** Michx. (rough-leaved).

Rocky woods. Rare near the coast and in the southwestern part of the state; occasional or frequent in central and northern Connecticut. May—June.

**Oryzopsis racemosa** (Sm.) Ricker (racemose).

*Oryzopsis melanocarpa* Muhl.

Rocky woods. Rare in the southeastern part of the state, frequent in southwestern Connecticut, occasional elsewhere. July—Aug.

**STIPA** L. Feather Grass.

**Stipa avenacea** L. (oat-like).

Black Oat Grass. Needle Grass. Porcupine Grass.

Reported only near the coast, in dry and rocky woods or openings and dry, sandy soils. Occasional in the southeastern part of the state, rare or local near New Haven, becoming more frequent in southwestern Connecticut. June.

The seeds of this grass are injurious to sheep by clinging to the wool and then penetrating the flesh.

**ARISTIDA** L. Triple-awned Grass.

**Aristida dichotoma** Michx. (forked).

Poverty Grass.

Common. Open, dry, sterile or sandy soil. Aug.—Sept.

**Aristida gracilis** Ell. (slender).

*Aristida gracilis* Ell., var. *depauperata* Gray.

Dry, sandy soil. Occasional or local near the coast, becoming rare northward. Aug.—Sept.

**Aristida tuberculosa** Nutt. (pimply).

Rare or local. Sea beaches from Orange westward. Aug.—Sept.

**Aristida purpurascens** Poir. (purplish).

Dry, sterile fields and pastures. Occasional or frequent except in the southwestern part of the state where it is rare or local. Aug.—Sept.

**MUHLENBERGIA** Schreb. Drop-seed Grass.

**Muhlenbergia sobolifera** (Muhl.) Trin. (producing offshoots).

Dry rocky woods. Generally rare, but frequent in southwestern Connecticut. Aug.—Sept.

**Muhlenbergia tenuiflora** (Willd.) BSP. (slender-flowered).

*Muhlenbergia Willdenowii* Trin.

Occasional or frequent. Rich or rocky woods. Aug.—Sept.

**Muhlenbergia sylvatica** Torr. (of woods).

Rocky woods, either moist or dry. Rare or occasional over most of the state, becoming frequent in southwestern Connecticut. Aug.—Sept.

**Muhlenbergia foliosa** Trin. (closely clothed with leaves).

*Muhlenbergia ambigua* Torr.

Moist woods. Southington (Bissell), and probably elsewhere, as the species has been confused with *Muhlenbergia mexicana*. Aug.—Sept.

**Muhlenbergia mexicana** (L.) Trin.

Crab Grass. Knot-root Grass.

Frequent or common. Moist or rich soil in cultivated ground, along roadsides and in waste places of towns and cities; also occasional in bogs and swamps and near streams. Aug.—Sept.

Sometimes troublesome as a weed in gardens and lawns. A cultivated form with striped leaves has escaped, and is established in a yard at Southington (Bissell).

**Muhlenbergia racemosa** (Michx.) BSP. (racemose).

*Muhlenbergia glomerata* Trin.

Bogs and swamps or sometimes in dry, rocky ground. Frequent in Litchfield County, becoming occasional or rare eastward and southward; reaching Union and Willington (Bissell), Franklin (R. W. Woodward), Meriden (Andrews & Bissell), New Haven (Eaton Herb.), Monroe (Eames). Aug.—Sept.

**Muhlenbergia Schreberi** J. F. Gmel.*Muhlenbergia diffusa* Schreb.

Drop-seed. Nimble Will.

Frequent along roadsides, in yards and waste places near dwellings; rare elsewhere. Aug.—Sept.

**Muhlenbergia capillaris** (Lam.) Trin. (hair-like).

Hair Grass.

Rare. Rocky cliffs: Hamden (O. Harger), New Haven (O. Harger, R. W. Woodward &amp; Harger). Sept.

**BRACHYELYTRUM** Beauv.**Brachyelytrum erectum** (Schreb.) Beauv. (erect).*Brachyelytrum aristatum* Beauv.

Rich moist or rocky woods. Frequent except along the coast eastward where it is rare. July — Aug.

**PHLEUM** L. Timothy. Herd's Grass.**Phleum pratense** L. (of meadows).

Timothy. Herd's Grass. Cat-tail Grass.

Common. Fields, roadsides and pastures. June — Aug. Naturalized from Europe.

Extensively grown and very valuable for hay. It is said to have been introduced into Maryland in 1720 by Timothy Hanson, hence the name "Timothy."

**ALOPECURUS** L. Foxtail Grass.**Alopecurus pratensis** L. (of meadows).

Meadow Foxtail.

Rare. Moist fields and roadsides: New London (Graves), Middlebury (Harger), Southington, Litchfield and Cornwall (Bissell). May — June. Adventive from Europe.

A desirable grass for moist pastures.

**Alopecurus geniculatus** L. (abruptly bent).

Marsh, Water or Floating Foxtail.

Rare or local. Wet meadows and along brooks: Hartford (A. W. Driggs), Wethersfield (C. Wright), Southington (Andrews &amp; Bissell). May — June.

A good grazing grass for wet grounds.



**Alopecurus geniculatus** L., var. **aristulatus** Torr. (with small awns or bristles).

Rare. Shallow water of ditches: Meriden (Harger & Mrs. C. S. Phelps), Salisbury (Weatherby & Mrs. C. S. Phelps). May—June.

**SPOROBOLUS** R. Br. Drop-seed. Rush Grass.

**Sporobolus clandestinus** (Spreng.) Hitchc. (concealed).

*Sporobolus asper* of Manuals.

Rare. Open, rocky ground: New Haven (R. W. Woodward). Sept.

**Sporobolus asper** (Michx.) Kunth (rough).

*Sporobolus longifolius* Wood.

Dry, sandy soils. In northern districts rare or occasional: Salisbury (Mrs. C. S. Phelps), New Milford (Eames), Oxford (Harger), Southington (Andrews & Bissell), Hartford (C. Wright). Becoming frequent near the coast and common about New Haven. Aug.—Sept.

**Sporobolus vaginiflorus** (Torr.) Wood (having the flowers in sheaths).

Frequent to common. Dry, sterile fields and sandy roadsides. Aug.—Sept.

**Sporobolus neglectus** Nash (neglected).

Rare. Dry ground: Oxford (Weatherby). Sept.

**Sporobolus cryptandrus** (Torr.) Gray (with hidden stamens).

Occasional in the southwestern part of the state, in sandy soil along the coast (Eames). July—Aug.

**Sporobolus heterolepis** Gray (various-scaled).

Rare. Dry, rocky summits: New Haven (Dr. Monson, O. D. Allen, Harger & R. W. Woodward). Sept.

**Sporobolus uniflorus** (Muhl.) Scribn. & Merr. (one-flowered).

*Sporobolus serotinus* Gray.

Peat bogs and open swamps. Frequent in the eastern part of the state, becoming rare or local westward: East Haven (A. H. Young & Harger), Southington (Andrews), Wolcott

(Andrews & Bissell), Waterbury (A. E. Blewitt), Middlebury (Harger), Norfolk (Bissell). Aug.—Sept.

A very delicate grass.

### AGROSTIS L. Bent Grass.

#### **Agrostis alba** L. (white).

Fiorin. White Bent Grass. Red Top. Fine Bent. Dew Grass.

Local or occasional. Open, generally moist ground. July—Aug. In part naturalized from Europe.

The var. *VULGARIS* (With.) Thurb. (common), *Agrostis vulgaris* With., cultivated under the name of Red Top, is common in fields and open ground and is a valuable grass for hay and pasturage. This variety is usually introduced from Europe but is perhaps also native.

#### **Agrostis alba** L., var. *aristata* Gray (awned).

Rare. Franklin, moist peaty soil in shade (R. W. Woodward). July.

#### **Agrostis alba** L., var. *maritima* (Lam.) G. F. W. Mey. (of the sea-coast).

*Agrostis coarctata* Ehrh.

Frequent along the coast in salt and brackish marshes; rare inland as at Southington (Bissell), Oxford (Harger). July—Sept.

#### **Agrostis hyemalis** (Walt.) BSP. (wintering).

*Agrostis scabra* Willd.

*Agrostis scabra* Willd., var. *montana* Gray's Manual ed. 6.

Hair or Rough Hair Grass. Rough Bent. Fly-away or Silk Grass.

Frequent or common. Dry or moist open ground, often in sandy soil. June—Sept.

#### **Agrostis perennans** (Walt.) Tuckerm. (perennial).

*Agrostis intermedia* Scribn.

Thin Grass.

Frequent. Rich woodlands either dry or moist. Aug.—Sept.

#### **Agrostis canina** L. (of a dog).

Brown Bent Grass. Rhode Island Bent.

Local. Meadows, East Hartford (Weatherby); dry, ster-

ile field on bank of the Housatonic River, Milford (Eames); field, Westport (Eames & C. C. Godfrey). July. Adventive from Europe.

**POLYPOGON** Desf. Beard Grass.

**Polypogon monspeliensis** (L.) Desf.

Beard Grass.

Rare. Waste places: Manchester (A. W. Driggs). July—Sept. Fugitive from Europe.

**CALAMAGROSTIS** Adans. Reed Bent Grass.

**Calamagrostis canadensis** (Michx.) Beauv.

Blue-joint Grass. Blue-stem. Reed Bent Grass.

Frequent. Wet meadows and borders of swamps. July.

A valuable grass for wet grounds, making good hay if cut early.

**Calamagrostis cinnoides** (Muhl.) Barton (like *Cinna*, the Reed Grass).

*Calamagrostis Nuttalliana* Steud.

Occasional. Bogs and open swamps. Aug.—Sept.

**AMMOPHILA** Host.

**Ammophila arenaria** (L.) Link (of sand).

*Ammophila arundinacea* Host.

Beach Grass. Sea Sand Reed. Psamma. Marram.

Common along the coast on sand dunes and beaches. Aug.—Sept.

Most valuable as a sand binder, its long underground stems holding the sand together and preventing it from being blown by the wind.

**CINNA** L. Wood Reed Grass.

**Cinna arundinacea** L. (reed-like).

Frequent. Wet woods and shaded swamps. Aug.—Sept.

**Cinna latifolia** (Trev.) Griseb. (broad-leaved).

*Cinna pendula* Trin.

Rare. Moist shaded rocks: Barkhamsted (A. E. Blewitt), Hartland and Colebrook (Bissell), Salisbury (Mrs. C. S. Phelps). Aug.—Sept.

### HOLCUS L.

#### **Holcus lanatus** L. (woolly).

Velvet Grass.

Occasional to frequent. Moist fields and roadsides. June—July. Naturalized from Europe.

### SPHENOPHOLIS Scribn.

#### **Sphenopholis obtusata** (Michx.) Scribn. (blunt).

*Eatonia obtusata* Gray.

Rare or local. Borders of salt marshes: New Haven (R. W. Woodward), Fairfield (Eames). June—early July.

The var. PUBESCENS (Scribn. & Merr.) Scribn. (downy) occurs at Stratford and Fairfield (Eames).

#### **Sphenopholis nitida** (Spreng.) Scribn. (shining).

*Eatonia nitida* Nash.

*Eatonia Dudleyi* Vasey.

Dry, usually rocky woods. Generally frequent, but reported rare in the central part of the state. May—June.

#### **Sphenopholis pallens** (Spreng.) Scribn. (pale).

*Eatonia pennsylvanica* Gray.

Moist or dry woods and in open, wet meadows. Occasional along the coast, becoming frequent northward. June—early July.

The var. MAJOR (Torr.) Scribn. (larger), *Eatonia pennsylvanica* Gray, var. *major* Torr., occurs at Southington and Salisbury (Bissell).

#### **Sphenopholis palustris** (Michx.) Scribn. (of marshes).

*Trisetum palustre* Trin.

*Trisetum pennsylvanicum* Britton & Brown's Ill. Flora.

Rare or occasional. Wet meadows and open swamps. June.

### TRISETUM Pers.

#### **Trisetum spicatum** (L.) Richter (spiked).

*Trisetum subspicatum* Beauv.

*Trisetum subspicatum* Beauv., var. *molle* Gray.

Rare. Limestone ledges: Salisbury (J. R. Churchill). May—June.

**DESCHAMPSIA** Beauv.**Deschampsia flexuosa** (L.) Trin. (zigzag).

Common Hair Grass.

Dry woods and rocky hillsides. Frequent to common along the coast and on banks of tidal rivers; occurring rarely inland, as at Salisbury (Bissell). June—July.

**Deschampsia caespitosa** (L.) Beauv. (tufted).

Tufted Hair Grass.

Frequent on shores of tidal rivers in the southeastern part of the state, rare or local elsewhere: New Haven (A. L. Winton), Southington, introduced and established in one field (Bissell). June—July.

**AVENA** L. Oat.**Avena sativa** L. (sown).

Common Oat.

Occasional. Roadsides and waste places. June—July. Fugitive from Europe.

It is extensively grown as food for man and beast and is also reputed to have medicinal value.

**ARRHENATHERUM** Beauv. Oat Grass.**Arrhenatherum elatius** (L.) Beauv. (rather tall).

*Arrhenatherum avenaceum* Beauv.

Tall Oat Grass.

Fields and roadsides. Occasional in most parts of the state; frequent in the southwestern portion. June. Naturalized from Europe.

**DANTHONIA** DC. Wild Oat Grass.**Danthonia spicata** (L.) Beauv. (spiked).

Common. Dry, sterile soils. June—July.

Often covering large areas of dry meadow or pasture land, but of little value either for hay or pasturage.

**Danthonia compressa** Aust. (flattened).

Dry woods or sometimes on exposed, ledgy places. Occasional in southeastern and southwestern Connecticut, apparently rare in other parts of the state: Union and Windham

(Bissell), Southington (Andrews & Bissell), Cheshire (A. E. Blewitt), Naugatuck (Eames). June—July.

**SPARTINA** Schreb. Cord or Marsh Grass.

**Spartina Michauxiana** Hitchc.

*Spartina cynosuroides* of American authors, not Roth.

Slough, Cord, Bull or Thatch Grass. Tall Marsh Grass.

Marshes and shallow water both fresh and salt. Frequent to common along the coast and near tidal rivers; rare inland as at Glastonbury (Andrews), Oxford (Harger). July—Sept.

**Spartina cynosuroides** (L.) Roth (like *Cynosurus*, the Dog's-tail Grass).

*Spartina polystachya* Willd.

Salt Reed Grass.

Borders of salt marshes and creeks. Rare in eastern Connecticut: Old Lyme (Graves), Old Saybrook (Bissell). Becoming occasional from New Haven westward. July—Sept.

**Spartina glabra** Muhl. (smooth).

*Spartina stricta* Roth, var. *glabra* Gray.

Salt Marsh Grass.

In its typical form not known in Connecticut. The var. *PILOSA* Merr. (hairy) is common on borders of salt marshes and tidal rivers. Aug.—Sept.

Forms an important part of the hay cut on the salt marshes.

**Spartina glabra** Muhl., var. **alterniflora** (Loisel.) Merr. (alternate-flowered).

*Spartina stricta* Roth., var. *alterniflora* Gray.

Salt Marsh Grass.

Occasional. Borders of salt marshes and tidal streams.

Aug.—Sept.

**Spartina patens** (Ait.) Muhl. (spreading) var. **juncea** (Michx.) Hitchc. (rush-like).

*Spartina juncea* Willd.

*Trachynotia juncea* Michx.

Salt Meadow Grass.

Common on salt meadows along the coast. July—Sept.

Furnishes much of the hay cut on the salt meadows.

**Spartina patens** (Ait.) Muhl., var. **caespitosa** (A. A. Eaton) Hitchc. (growing in tufts).  
Rare. Salt marshes: Groton (Graves). July — Aug.

**CYNODON** Richard. Bermuda or Scutch Grass.

**Cynodon Dactylon** (L.) Pers. (finger).

*Capriola Dactylon* Kuntze.

Bermuda or Scutch Grass.

Rare. Waste ground: New Haven (O. Harger). July — Aug. Fugitive from Europe where it is native, or from the South where it has been introduced and is often cultivated as a pasture grass.

**BOUTELOUA** Lag. Mesquite Grass.

**Bouteloua curtispindula** (Michx.) Torr. (short-hanging).

*Bouteloua racemosa* Lag.

*Atheropogon curtispindulus* Fourn.

Mesquite Grass.

Rare. Dry, open sandy soil: Oxford (H. C. Beardslee, Harger), Salisbury (Mrs. C. S. Phelps). Aug.—Sept.

**ELEUSINE** Gaertn. Goose Grass. Yard Grass.

**Eleusine indica** Gaertn.

Crab, Yard, or Wire Grass.

Occasional to common, chiefly near dwellings and in waste places of towns and cities, but sometimes in country districts, especially those in the valley of the Connecticut River. Aug.—Sept. Naturalized from India.

**LEPTOCHLOA** Beauv.

**Leptochloa fascicularis** (Lam.) Gray (clustered).

*Diplachne fascicularis* Beauv.

Rare. Borders of salt or brackish marshes: Stonington (Graves), Groton (Bissell & Graves), New Haven (W. A. Setchell, Harger), Stratford (Eames & Harger). Aug.—Sept.

**PHRAGMITES** Trin. Reed.

**Phragmites communis** Trin. (growing in colonies).

*Phragmites vulgaris* BSP.

*Phragmites Phragmites* Karst.

Wild Broom Corn.

Borders of marshes, either salt or fresh. Apparently rare inland: Salisbury (Mrs. C. S. Phelps). Occasional along the coast, becoming more frequent in the southwestern corner of the state. Late Aug.—Sept.

A tall, striking grass with broad leaves, the largest of our native grasses.

**TRIDENS** R. & S.

**Tridens flavus** (L.) Hitchc. (yellow).

*Triodia cuprea* Jacq.

*Sieglingia seslerioides* Scribn.

*Tricuspis seslerioides* Torr.

Tall Red Top.

Dry fields and roadsides, generally in sandy or sterile soil. Rare in the eastern part of the state: East Lyme and the valley of the Thames River (Graves). Becoming occasional westward along the coast and in the river valleys and frequent in southwestern Connecticut. In the Housatonic Valley it is found as far north as Kent (Eames). Aug.

**TRIPLASIS** Beauv.

**Triplasis purpurea** (Walt.) Chapm. (purple).

*Triodia purpurea* Hack.

*Sieglingia purpurea* Kuntze.

Sand Grass.

Dry, open sandy places. Occasional to frequent along the shore; rare inland as at Lisbon (Harger). July—Sept.

**MOLINIA** Schrank.

**Molinia coerulea** (L.) Moench (sky-blue).

Rare. Well established along roadsides: New Haven (R. W. Woodward). July—Aug. Adventive from Europe.



**ERAGROSTIS** Beauv.

**Eragrostis hypnoides** (Lam.) BSP. (like Hypnum, a kind of creeping Moss).

*Eragrostis reptans* Nees.

Sandy shores of rivers and sometimes ponds. Frequent in the valleys of the Connecticut and Housatonic Rivers; rare elsewhere. Aug.—Sept.

**Eragrostis capillaris** (L.) Nees (hair-like).

Hair Grass.

Dry fields or thin woods in sandy ground. Occasional, becoming frequent or locally common in some parts of southwestern and central Connecticut. Aug.—Sept.

**Eragrostis Frankii** (Fisch., Mey. & Lall.) Steud.

Rare or local. River shores and roadsides in sandy soil: Lyme (Graves & Bissell), Middletown (A. W. Driggs), East Windsor, Windsor and Hartford (Bissell), Oxford (Harger), Salisbury (Mrs. C. S. Phelps). Aug.—Sept.

**Eragrostis pilosa** (L.) Beauv. (hairy).

*Eragrostis Purshii* Schrad.

Frequent. Dry soils, along roadsides and railways, on river shores and in waste places. July — Sept.

**Eragrostis megastachya** (Koeler) Link (large-spiked).

*Eragrostis major* Host.

Stink Grass. Snake Grass.

Occasional or frequent. Waste places, roadsides, and as a weed in cultivated ground. July — Sept. Naturalized from Europe.

The fresh plant emits a strong, unpleasant odor.

**Eragrostis minor** Host (smaller).

Rare. Waste ground: Bridgeport (Eames). Aug. Adventive from Europe.

**Eragrostis pectinacea** (Michx.) Steud. (comb-like).

Purple Eragrostis.

Frequent or common. Dry, open ground. Aug.—Sept.

A beautiful native grass, one of the "purple grasses" distinguished by Thoreau in his essay "Autumnal Tints."

**MELICA** L. Melic Grass.**Melica striata** (Michx.) Hitchc. (streaked).*Avena striata* Michx.

Purple Oat.

Local. Rocky woods: Oxford (Harger). Limestone ledges: Salisbury and Sharon (Bissell). May—June.

**DISTICHLIS** Raf. Spike Grass. Alkali Grass.**Distichlis spicata** (L.) Greene (spiked).*Distichlis maritima* Raf.

Alkali Grass.

Frequent or common in salt meadows along the coast. Aug.—Sept.

It is of considerable value as a sand binder.

**BRIZA** L. Quaking Grass.**Briza media** L. (intermediate).

Rare. Fields and waste places: Mansfield (R. W. Woodward), Salisbury (Mrs. C. S. Phelps). June—July. Adventive from Europe.

Sometimes cultivated for ornament.

**DACTYLIS** L. Orchard Grass.**Dactylis glomerata** L. (densely clustered).

Orchard Grass.

Common. Fields, roadsides and waste places. June—July. Naturalized from Europe.

In cultivation a valuable grass for shaded ground.

**CYNOSURUS** L.**Cynosurus cristatus** L. (crested).

Dog's-tail Grass.

Rare. New London, well established in one lawn (Graves). June. Adventive from Europe.

**POA** L. Meadow Grass. Spear Grass.**Poa annua** L. (annual).

Low Spear Grass. Goose Grass.

Common. Cultivated ground and waste places. Apr.—Nov. Naturalized from Europe.

**Poa compressa** L. (flattened).

Creeping Spear Grass. Wire Grass. Flat-stemmed or Canada Blue Grass.

Common. Fields, waste places and woods, mostly in dry ground. May — Aug. Naturalized from Europe.

Said to be a valuable grass for dry and poor soils.

**Poa triflora** Gilib. (three-flowered).

*Poa serotina* Ehrh.

*Poa flava* of American authors, not L.

False Red Top. Fowl Meadow Grass. Swamp Wire Grass. Duck Grass.

Frequent or occasional. Moist meadows. July — Aug.

A desirable grass for hay in wet ground.

**Poa pratensis** L. (of meadows).

June Grass. Kentucky Blue Grass. Spear Grass. Smooth Meadow Grass.

Common. Meadows, fields and pastures. May — June. In Connecticut naturalized from Europe.

A valuable grass for pastures and lawns, and in some parts of the country much cultivated. The stems of this grass are used in the manufacture of the finer grades of Leghorn hats.

**Poa trivialis** L. (common).

Rough-stalked Meadow Grass.

Occasional. Moist meadows, borders of streams and about springs. June — July. Naturalized from Europe.

**Poa debilis** Torr. (weak).

Rare or local. Rocky woods or fields, either dry or moist: Union, Ashford and Stafford (Weatherby & Bissell), Oxford (Harger), New Haven (R. W. Woodward), Salisbury (C. S. Phelps & Bissell). May — July.

**Poa alsodes** Gray (of groves).

Rocky woods or along woodland brooks. Rare or local in the eastern part of the state and along the coast westward, becoming occasional in northwestern Connecticut. May — June.

**GLYCERIA** R. Br. Manna Grass.**Glyceria Torreyana** (Spreng.) Hitchc.*Glyceria elongata* Trin.*Panicularia elongata* Kuntze.

Wet woods and along wooded brooks and borders of swamps. Rare in southeastern Connecticut and along the coast, becoming occasional or frequent northward. June—July.

**Glyceria obtusa** (Muhl.) Trin. (blunt).*Panicularia obtusa* Kuntze.

Swamps and boggy meadows. Frequent or occasional in the southeastern part of the state and westward along the coast; rare inland. Mid July—Sept.

**Glyceria canadensis** (Michx.) Trin.*Panicularia canadensis* Kuntze.

Pearl Grass. Rattlesnake Grass. Tall Quaking Grass. Tuscarora Rice.

Frequent. Bogs, open swamps and ditches. June—July.

**Glyceria nervata** (Willd.) Trin. (nerved).*Panicularia nervata* Kuntze.

Fowl Meadow Grass. Manna Grass. Meadow Spear Grass.

Common. Open swamps, boggy meadows, along streams and about ponds. June—July.

A good forage grass for wet grounds. The seeds furnish much food for water-fowl.

**Glyceria grandis** Wats. (large).*Panicularia americana* MacMill.

Tall Manna Grass. Reed Meadow Grass.

Moist or wet open ground. Rare in the eastern part of the state and on the coast: Lyme (Graves), New Haven (Harger), Norwalk (Bissell). Elsewhere occasional. June—July.

**Glyceria pallida** (Torr.) Trin. (pale).*Panicularia pallida* Kuntze.

Pale Manna Grass.

Occasional. Shallow water, wet bogs and swamps. June—July.

**Glyceria septentrionalis** Hitchc. (northern).*Glyceria fluitans* of American authors, not R. Br.*Panicularia fluitans* of Britton's Manual.

Floating Manna Grass.

Rare. Wet meadows: Stonington (Graves), Thompson and Woodstock (Harger), Cheshire (D. C. Eaton), Bridgeport and Westport (Eames), Salisbury (Bissell). June—July.

**Glyceria borealis** (Nash) Batchelder (northern).*Panicularia borealis* Nash.

Rare. Swampy ground along brooks and in ditches: Woodstock (Weatherby), Farmington (Andrews & Bissell), Norfolk (Bissell). June—July.

**Glyceria acutiflora** Torr. (with pointed flowers).*Panicularia acutiflora* Kuntze.

Open swamps and wet meadows. Occasional in the southeastern part of the state, becoming frequent or common elsewhere. June.

**PUCCINELLIA** Parl.**Puccinellia angustata** (R. Br.) Rand & Redfield (narrow).*Puccinellia maritima* Parl., var. (?) *minor* Gray's Manual ed. 6.  
Goose Grass. Sea Spear Grass.

Rare. Old Lyme, shore of Blackhall River (Graves).  
June.

**Puccinellia distans** (L.) Parl. (standing apart).

Goose Grass.

Wet tidal sands and borders of salt marshes. Rare in southeastern Connecticut, becoming occasional or frequent westward. June—July.

**Puccinellia Borreri** (Bab.) Hitchc.

Rare. Bridgeport, sandy shore of Cedar Creek (Eames).  
June—July.

Introduced from Europe.

**FESTUCA L.** Fescue Grass.**Festuca octoflora** Walt. (eight-flowered).*Festuca tenella* Willd.

Slender Fescue.

Dry sandy soil or thin soil on ledges. Occasional over the greater part of the state, becoming frequent in the southwestern portion. June—July.

**Festuca rubra** L. (red).

Swamps and marshes or sometimes in fields or on ledges. Frequent or common along and near the coast; occasional inland. June—July.

**Festuca ovina** L. (of sheep).

Sheep's Fescue.

Rare or occasional. Dry fields or in sterile soils. June—July.

The var. *CAPILLATA* (Lam.) Hack. (hair-like), *Festuca capillata* Lam., is occasional in similar situations. The species is native northward, but in Connecticut both that and the variety are naturalized from Europe.

Valuable as a forage grass, especially for sheep; also a good grass for lawns.

**Festuca elatior** L. (taller).*Festuca elatior* L., var. *pratensis* Gray.

Taller or Meadow Fescue.

Common. Meadows, fields and waste places. June—July. Naturalized from Europe.

A grass of much value both for pasturage and hay.

**Festuca nutans** Spreng. (nodding).

Occasional or frequent. Rocky woodlands. June—July.

**BROMUS L.** Brome Grass.**Bromus secalinus** L. (rye-like).

Cheat. Chess.

Occasional or frequent. Grassland, roadsides and often in grain fields. June—Aug. Adventive from Europe.

A pernicious weed in grain fields. In some countries the seeds are mixed with rye or wheat for use as food.

**Bromus hordeaceus** L. (like *Hordeum*, the Barley).

*Bromus mollis* L.

Soft Chess.

Rare. Waste places: New London (Graves), Hartford (Bissell), Southington (Andrews). June. Adventive from Europe.

**Bromus squarrosus** L. (with spreading scales).

Rare. Naugatuck, in waste ground (A. E. Blewitt). June. Fugitive from Europe.

**Bromus racemosus** L. (racemed).

Waste places and roadsides. Occasional in southwestern Connecticut (Eames). Rare elsewhere: New London (Graves), Norwich (Miss Hakes), New Haven (O. D. Allen). June. Adventive from Europe.

**Bromus commutatus** Schrad. (variable).

Rare. Roadsides and waste ground: Cromwell (Andrews & Bissell), Middletown and Southington (Bissell). June—July. Adventive from Europe.

**Bromus brizaeformis** Fisch. & Mey. (like *Briza*, the Quaking Grass).

Rare. Waste ground: New Haven (R. W. Woodward). July—Aug. Adventive, probably from Europe.

**Bromus tectorum** L. (of dwellings).

Sandy or sterile waste places. Frequent or common in or near cities and along railroads, rare elsewhere. May—July. Naturalized from Europe.

**Bromus ciliatus** L. (fringed).

Wood Chess. Hairy Brome Grass.

Dry soil of rocky woods or railroad banks. Rare near the coast, becoming occasional northward. July—Aug.

**Bromus purgans** L. (purging).

*Bromus ciliatus* L., var. *purgans* Gray.

Frequent. Rocky woods and copses. July—Aug.

**Bromus altissimus** Pursh (tallest).

Rocky woods and shaded alluvial ground. Occasional or local throughout the northern part of the state, extending

southward to Lyme (Bissell), and Derby (Harger), its exact distribution unknown. July — Aug.

**Bromus Kalmii** Gray.

Wild Chess.

Dry hillsides and rocky woods, or sometimes in moist meadows. Absent or rare near the coast, becoming occasional or frequent northward. June — July.

**Bromus erectus** Huds. (erect).

Rare. Introduced in one field, Southington (Bissell). May — June. Adventive from Europe.

**Bromus inermis** Leyss. (unarmed; referring to the absence of awns).

Hungarian Brome Grass.

Rare. Fields and roadsides: East Windsor (G. S. Phelps), Naugatuck (A. E. Blewitt), Salisbury (Mrs. C. S. Phelps). July. Adventive from Europe.

In Europe considered one of the best forage plants for dry soils. Introduced and cultivated for hay in many parts of the United States.

**LOLIUM** L. Darnel.

**Lolium perenne** L. (perennial).

Perennial Ray Grass or Rye Grass. Nonesuch. Common Darnel.

Rare or occasional. Fields, waste places or cultivated ground. July — Aug. Adventive from Europe.

**Lolium multiflorum** Lam. (many-flowered).

*Lolium italicum* R. Br.

Italian Rye or Ray Grass.

Rare. Waste grounds and roadsides: Bridgeport (Eames). July — Sept.

Adventive from Europe, where it is regarded as one of the best grasses for hay.

**Lolium temulentum** L. (drunken; referring to the narcotic properties of the seeds).

Bearded Darnel.

Rare or local. Waste grounds: Bridgeport, in several places and usually associated with *Phalaris canariensis*, with



which it appears to have been introduced (Eames). July.  
Adventive from Europe.

### AGROPYRON Gaertn.

**Agropyron repens** (L.) Beauv. (creeping).

Couch, Quack, Quitch, Durfee, Scutch. Shear, Dog, or Knot Grass.

Common. Fields, cultivated ground and waste places.  
June—Aug. Naturalized from Europe.

A bad weed, very troublesome in cultivated ground. The rootstocks are of medicinal value and are officinal.

**Agropyron tenerum** Vasey (delicate).

Rare. Naugatuck, in waste ground (A. E. Blewitt). July—Aug. Fugitive from the western United States.

**Agropyron caninum** (L.) Beauv. (of a dog).

Awned Wheat Grass. Dog's Wheat or Couch Grass.

Occasional or local. Dry or moist thickets, fields and woods: Killingly (Weatherby & Bissell), Union, East Had-dam, Southington, Norfolk and Salisbury (Bissell), Oxford (Harger). July—Aug. In part naturalized from Europe.

### SECALE L. Rye.

**Secale cereale** L. (cereal).

Rye.

Occasional. Roadsides and waste places as an escape from cultivation. June. Fugitive from Europe.

The grain furnishes a valuable cereal and is largely used in the manufacture of distilled liquors.

### TRITICUM L. Wheat.

**Triticum sativum** Lam. (sown).

*Triticum vulgare* Vill.

Wheat.

Local. Old fields and waste places as an escape from cultivation. June. Fugitive from Europe.

Easily leads all other food plants in value and importance.

**HORDEUM L.**      Barley.

**Hordeum jubatum L.** (maned).

Squirrel-tail Grass.

Rare or local. Salt marshes where it is apparently native: Branford (Andrews & Bissell), New Haven and Milford (Harger), Fairfield (Eames). Introduced in waste grounds: Norwich (Mrs. E. E. Rogers), Berlin (J. N. Bishop), Hartford (Bissell), Bridgeport (Eames), Waterbury and Naugatuck (A. E. Blewitt), Salisbury (Mrs. C. S. Phelps). June — Sept.

This grass is very injurious in hay, the beards of the heads sticking in the nose and mouth of stock, even penetrating the flesh and causing death.

**Hordeum vulgare L.** (common).

Common Barley.

Frequent as a weed in oat fields, rarely escaping to roadsides and waste places, as at Southington (Andrews), Oxford (Harger). July. Fugitive from Europe.

The grain is one of the important cereals, especially in northern countries. Malt is made very largely from barley.

**ELYMUS L.**      Lyme Grass.      Wild Rye.

**Elymus virginicus L.**

Wild Rye. Terrell Grass.

Frequent along the coast, and in low grounds, mostly near streams, inland; rare elsewhere. July — Aug.

The var. *HIRSUTIGLUMIS* (Scribn.) Hitchc. (with hairy scales), *Elymus hirsutiglumis* Scribn., occurs at East Haven (Harger), New Haven (Bissell), Stratford (Eames), Bridgeport (C. K. Averill), and is occasional in the valleys of the larger rivers.

**Elymus australis** Scribn. & Ball (southern).

Rare. Dry rocky hills near New Haven (O. D. Allen). Aug.

**Elymus canadensis L.**

Lyme Grass. Wild Rye. Nodding Wild Rye.

Occasional, local or frequent. Moist thickets and banks of streams. July — Sept.

The var. *GLAUCIFOLIUS* (Muhl.) Gray (glaucous-leaved) is rare or occasional, mostly near streams and rivers: Sprague (Graves), East Windsor and New Hartford (Bissell), Waterbury (A. E. Blewitt), Oxford (Harger), Sherman and New Milford (Eames), Salisbury (Mrs. C. S. Phelps).

**Elymus striatus** Willd. (grooved).

Slender Wild Rye.

Rare or occasional. Woods, thickets and near streams, mostly in dry ground. July — Aug.

**HYSTRIX** Moench. Bottle-brush Grass.

**Hystrix patula** Moench (spreading).

*Hystrix Hystrix* Millsp.

*Asprella Hystrix* Willd.

Bottle-brush Grass.

Occasional to frequent. Dry, rocky woods. June — July.

**CYPERACEAE. SEDGE FAMILY.**

A large family, composed mostly of grass-like plants that are found in various situations, but are specially abundant in low grounds and often form nearly the entire vegetation in wet meadows and open bogs. While they are often cut for coarse hay and bedding for stock, they are of little economic value, and should be rooted out and replaced where possible by species of true grasses that will thrive in such locations. The dates given in this family are for the time of fruiting, not of flowering, as specimens should be collected when in fruit, it being impossible otherwise in some groups to determine the exact species.

**CYPERUS** L. Galingale.

**Cyperus diandrus** Torr. (two-stamened).

Frequent. Moist, grassy places and about swamps. Aug. — Sept.

**Cyperus rivularis** Kunth (of streams).

*Cyperus diandrus* Torr., var. *castaneus* Torr.

Frequent. Wet, sandy shores, along streams and about ponds. Aug. — Sept.

**Cyperus Nuttallii** Eddy.

Frequent along the coast on wet, sandy shores and edges of salt marshes. Aug.—Sept.

**Cyperus aristatus** Rottb. (awned).

*Cyperus inflexus* Muhl.

Occasional. Moist, sandy soil on river banks, beside ponds and along roadsides. Aug.—Oct.

The dried plants are pleasantly sweet-scented.

**Cyperus fuscus** L. (dusky).

Rare. Sandy shore of the Connecticut River near Hadlyme Ferry, Lyme (Graves). Aug.—Sept. Fugitive from Europe.

**Cyperus dentatus** Torr. (toothed).

Occasional or local. Sandy shores of ponds and streams. Aug.—Oct.

**Cyperus esculentus** L. (eatable).

Frequent. Moist fields, waste ground and along rivers. Aug.—Sept.

The var. *LEPTOSTACHYUS* Boeckl. (thin-spiked), var. *angustispicatus* Britton, is sometimes seen.

A weed, often a pest in cultivated ground and difficult to exterminate.

**Cyperus erythrorhizos** Muhl. (red-rooted).

Local. Plentiful along the banks of the Connecticut River at East Windsor and Glastonbury (Bissell), Hartford (C. Wright), Lyme (Graves). Also found along the Pequonnock River, Bridgeport (Eames). Aug.—Sept.

The var. *PUMILUS* Engelm. (low) occurs with the species at Hartford (H. S. Clark & Weatherby).

**Cyperus ferax** Richard (fruitful).

*Cyperus speciosus* Vahl.

Sandy beaches and about brackish marshes near the coast. Rare at Old Lyme (Graves); becoming occasional or frequent westward. Sept.—Oct.

**Cyperus strigosus** L. (bristly).

Common. Meadows, fields and along streams, usually in moist, but sometimes in dry soil.

The var. *CAPITATUS* Boeckl. (densely clustered) is reported to occur. Aug.—Sept.

Often a troublesome weed in cultivated ground.

**Cyperus strigosus** L., var. *robustior* Kunth (stouter).

Rare or occasional. Fields and meadows, growing with the typical form. Aug.—Sept.

**Cyperus Grayii** Torr.

Occasional along the coast on the higher portions of the beaches and among sand dunes. Aug.—Oct.

**Cyperus filiculmis** Vahl (thread-stemmed).

Rare or occasional. Dry or sandy fields. July — Aug.

**Cyperus filiculmis** Vahl, var. *macilentus* Fernald (lean).

Common. Dry, sandy or sterile soil. July — Aug.

**DULICHIMUM** Pers.**Dulichium arundinaceum** (L.) Britton (reed-like).

*Dulichium spathaceum* Pers.

Common. Wet places about ponds and in shallow water. July — Sept.

**ELEOCHARIS** R. Br. Spike Rush.**Eleocharis quadrangulata** (Michx.) R. & S. (four-cornered).

*Eleocharis mutata* Britton, not R. & S.

Rare. Shallow water of pond: Guilford (G. H. Bartlett). Aug.—Sept.

**Eleocharis Robbinsii** Oakes.

Rare. In ponds: Voluntown, Groton, Ledyard and East Lyme (Graves), Griswold (Harger), Monroe (Eames), Salisbury (Bissell). Sept.

**Eleocharis olivacea** Torr. (olive-colored).

Open bogs and muddy borders of ponds. Rare inland: Salisbury (Mrs. C. S. Phelps), Windsor (Bissell). Occasional southwestward and along the coast. Aug.—Sept.

**Eleocharis diandra** C. Wright (two-stamened).

Rare. Banks and high sand bars of the Connecticut River: Lyme (Graves), Wethersfield (C. Wright), East Windsor (Bissell). Sept.—Oct.

**Eleocharis ovata** (Roth) R. & S. (egg-shaped).

Rare. Sand flats, bed of the Connecticut River, East Windsor (Bissell). Sept.—Oct.

**Eleocharis obtusa** (Willd.) Schultes (blunt).

• *Eleocharis ovata* of recent Manuals.

Common. Banks of streams, about ponds and in muddy places. Aug.—Sept.

**Eleocharis Engelmanni** Steud.

Rare. Gravelly or sandy border of ponds or streams: Wethersfield (C. Wright), West Hartford (Bissell). Aug.—Sept.

Many reports of this species should be referred to *Eleocharis obtusa*.

**Eleocharis palustris** (L.) R. & S. (of marshes).

Sphagnum bogs, marshy ground or shallow water on borders of ponds. The typical form is rare over most of the state: East Lyme (Graves), East Hartford (A. W. Driggs), Kent (Eames). Frequent in Fairfield County (Eames).

The var. *GLAUCESCENS* (Willd.) Gray (somewhat glaucous) is frequent throughout.

The var. *MAJOR* Sonder (greater), var. *vigens* Bailey, is rare: East Lyme (Graves). July — Aug.

**Eleocharis acicularis** (L.) R. & S. (needle-shaped).

Common. Borders of ponds and in shallow water. July — Sept.

**Eleocharis tuberculosa** (Michx.) R. & S. (pimply).

Swamps, boggy meadows and wet margins of ponds and streams. Frequent near the coast in New London County, becoming rare or local northward and westward, reaching Franklin (R. W. Woodward), Thompson (Weatherby & Bissell), New Haven and East Haven (Harger), Orange (Andrews), Milford (Eames). July — Sept.

**Eleocharis Torreyana** Boeckl.*Eleocharis microcarpa* of authors, not Torr.

Rare. Moist sandy soil: Voluntown, at Beach Pond (R. W. Woodward &amp; Graves). Aug.

**Eleocharis tenuis** (Willd.) Schultes (slender).

Common. Swamps and wet places. June—Aug.

**Eleocharis intermedia** (Muhl.) Schultes (intermediate).

Rare. Muddy borders of ponds and on river banks: East Windsor and Salisbury (Bissell). Sept.—Oct.

**Eleocharis rostellata** Torr. (small-beaked).

Marshes and wet meadows along the coast. Rare or local in New Haven County: Milford (Eames), Orange (Andrews), New Haven (Harger). Becoming occasional eastward. Aug.

**STENOPHYLLUS** Raf.**Stenophyllus capillaris** (L.) Britton (hair-like).*Fimbristylis capillaris* Gray.

Common. Dry or moist sterile soil. Aug.—Sept.

**FIMBRISTYLIS** Vahl.**Fimbristylis Frankii** Steud.*Fimbristylis autumnalis* of American authors in part, not R. & S.

Frequent. Wet places on banks of ponds and streams, or in low meadows. Aug.—Sept.

**SCIRPUS** L. Bulrush. Club Rush.**Scirpus nanus** Spreng. (dwarf).*Eleocharis pygmaea* Torr.

Salt marshes and tidal banks along the coast. Rare eastward: Groton and Montville (Graves). Becoming frequent west of New Haven (Eames). July—Sept.

**Scirpus planifolius** Muhl. (flat-leaved).

Dry woodlands. Rare in New London County: Montville, Ledyard and East Lyme (Graves). Occasional or frequent elsewhere. June.

**Scirpus hudsonianus** (Michx.) Fernald.

*Eriophorum alpinum* L., not *Scirpus alpinus* Schleich.

Rare or local. Open bogs and wet meadows: Union, Ashford and Stafford (Weatherby & Bissell), Willington (H. C. Beardslee), Mansfield (A. F. Blakeslee), Goshen (Mr. Hopkin). May — early June.

**Scirpus subterminalis** Torr. (a little below the end).

Rare or local. Shallow water of ponds: Ledyard (W. A. Setchell), Voluntown, Groton, East Lyme and Lyme (Graves), Guilford (G. H. Bartlett), Salisbury (Bissell). Aug.

**Scirpus debilis** Pursh (weak).

Frequent. Muddy borders of ponds and streams. Aug.—Sept.

**Scirpus Smithii** Gray.

Rare or local. Muddy shores: Lyme (Graves), Monroe (H. C. Beardslee), Newtown (Eames). Aug.—Sept.

**Scirpus americanus** Pers.

*Scirpus pungens* Vahl.

Three-square or Chair-maker's Rush.

Marshes and wet places. Occasional or local over most of the state, but common along and near the coast. July — Aug.

**Scirpus Torreyi** Olney.

Local. Lyme, marshy banks and shallow water of the Connecticut River (Graves). Aug.

**Scirpus Olneyi** Gray.

Salt or brackish marshes. Occasional or local along the coast, also extending up the rivers as far as salt water influences. July — Aug.

The var. *CONTORTUS* Eames (twisted or bent) is plentiful in a brackish marsh at Milford (Eames).

**Scirpus validus** Vahl (stout).

*Scirpus lacustris* mostly of American authors, not L.

Great Bulrush.

Frequent. Shallow water and in swamps. July — Aug.



**Scirpus fluviatilis** Torr. & Gray (of a river).

River Bulrush.

Rare or local. Lyme and Old Lyme, in fresh and salt creeks and marshes (Graves); East Windsor and Glastonbury, banks of the Connecticut River (Bissell). July — Sept.

**Scirpus robustus** Pursh (stout).

*Scirpus maritimus* of American authors in part.

Occasional in salt or brackish marshes on or near the coast. July — Aug.

**Scirpus campestris** Britton (of fields).

*Scirpus maritimus* in part, of authors.

In its typical form not known in Connecticut.

The var. *PALUDOSUS* (A. Nelson) Fernald (of marshes), *Scirpus paludosus* A. Nelson, is frequent in marshes along the coast.

The var. *NOVAE-ANGLIAE* (Britton) Fernald, *Scirpus novae-angliae* Britton, is rare or local in fresh and brackish marshes on the coast from Milford westward (Eames). July — Aug.

**Scirpus rubrotinctus** Fernald (red-dyed).

*Scirpus sylvaticus* L., var. *digynus* Gray's Manual ed. 6, not Boeckl.

Rare or local. Swamps and marshy meadows: Lyme (Graves), Southington (Andrews & Bissell), Waterbury (Harger), Union, Glastonbury, East Windsor, Somers, Litchfield and Norfolk (Bissell). Late June — early July.

**Scirpus sylvaticus** L. (of woods).

Occasional or frequent. Swamps, along streams and about ponds. Late July — Aug.

**Scirpus sylvaticus** L., var. **Bissellii** Fernald.

Rare. Open swamps: Southington (Andrews, Bissell), Ansonia (Harger). July.

**Scirpus atrovirens** Muhl. (dark green).

Rare. Moist ground: Orange, Huntington and Southbury (Harger), Milford (Eames). Aug.

**Scirpus georgianus** Harper.*Scirpus atrocirens* of Manuals in part.

Frequent. Moist meadows and wet open ground. July — early Aug.

**Scirpus polyphyllus** Vahl (many-leaved).

Wet meadows and shaded swamps. Rare through most of the state: Lyme (Graves), Southington and Berlin (Andrews &amp; Bissell), Cheshire, Derby and Oxford (Harger), New Haven and Milford (Eames), Colebrook (Bissell). Becoming frequent in Fairfield County (Eames). July.

The var. *MACROSTACHYS* Boeckl. (long-spiked) has been found at Berlin (Andrews & Bissell).**Scirpus lineatus** Michx. (marked with lines).*Eriophorum lineatum* Benth. & Hook.

Rare or local. Wet meadows: New Haven (D. C. Eaton), New Milford and Sharon (Bissell), Salisbury (Mrs. C. S. Phelps). July.

**Scirpus cyperinus** (L.) Kunth (rush-like).*Eriophorum cyperinum* L.

Wool Grass.

Common. Swamps and wet places. Aug.—Sept.

The var. *ANDREWSII* Fernald has been found at Killingly (Weatherby & Bissell), East Hartford (Bissell), Southington (Andrews).**Scirpus cyperinus** (L.) Kunth, var. *pelius* Fernald (black or livid).

Rare. Swamps: Lyme (Graves &amp; Bissell), Hartford and Granby (Bissell), Oxford (Harger). Aug.

The var. *CONDENSATUS* Fernald (pressed together) occurs occasionally.**Scirpus Eriophorum** Michx. (wool-bearing).*Scirpus cyperinus* Kunth, var. *Eriophorum* Britton.

Rare. Swamps: Southington (Andrews), Trumbull (Eames). Aug.—Sept.

**Scirpus pedicellatus** Fernald (borne on stalks).

Swamps and wet meadows. Occasional to common along the Connecticut River from the northern boundary of the

state to the coast; occasional westward in southern districts.  
July — Aug.

The var. *PULLUS* Fernald (dusky) is rare: Southington and Winchester (Bissell).

**Scirpus atrocinctus** Fernald (dark-girded).

*Eriophorum cyperinum* L., var. *laxum* Gray.

Low meadows and bogs. Rare or absent near the coast: New London and Lyme (Graves). Becoming occasional or frequent in the northern part of the state. Late June—July.

The var. *BRACHYPODUS* Fernald (short-stalked) occurs at Union, Somers, East Windsor and Norfolk (Bissell).

**ERIOPHORUM** L. Cotton Grass.

**Eriophorum callitrix** Cham. (having beautiful hair).

*Eriophorum vaginatum* of American authors, not L.  
Hare's Tail.

Rare or local. Sphagnum bogs: Willington (Weatherby & Bissell), Southington (Andrews), Burlington (J. N. Bishop), Litchfield (J. P. Brace), Middlebury (Harger), Norfolk and Salisbury (Bissell). May — early June.

**Eriophorum gracile** Roth (slender).

Rare or local. Boggy meadows or in sphagnum: Griswold (Graves), Union (Weatherby & Bissell), Franklin (R. W. Woodward & Graves), Coventry, Cheshire, Southington and Burlington (Bissell), Meriden and Bethany (Harger), Easton (Eames), New Milford (E. H. Austin), Salisbury (Bissell). Late May—early June.

**Eriophorum tenellum** Nutt. (small; delicate).

*Eriophorum paucinerium* A. A. Eaton.

Bogs and wet meadows. Rare or local through most of the state: South Windsor (Weatherby), Monroe and Stratford (Eames), Oxford and Meriden (Harger), Orange (R. W. Woodward), Salisbury, Southington, East Haddam and Union (Bissell). Becoming occasional in New London County (Graves). July — Aug.

**Eriophorum viridi-carinatum** (Engelm.) Fernald (green-keeled).

*Eriophorum polystachion* of most American authors in part, not L.

*Eriophorum polystachion* L., var. *latifolium* Gray.

Bogs and wet meadows. Rare in New London County: Groton and Griswold (Graves). Occasional elsewhere. June.

**Eriophorum virginicum** L.

Frequent. Wet meadows, bogs and sphagnum swamps. Aug.—Sept.

The var. **ALBUM** Gray (white) is occasionally seen.

#### HEMICARPHA Nees & Arn.

**Hemicarpha micrantha** (Vahl) Pax (small-flowered).

*Hemicarpha subsquarrosa* Nees.

Rare. Wet alluvium along the banks of streams: Enfield (Andrews & Bissell), East Windsor, Hartford and Southington (Bissell), Bloomfield (N. Coleman), Oxford (H. C. Beardslee). Aug.—Sept.

#### RYNCHOSPORA Vahl. Beak Rush.

**Rynchospora macrostachya** Torr. (long-spiked).

*Rynchospora corniculata* Gray, var. *macrostachya* Britton. Horned Rush.

Rare or local. Sphagnum bogs and shallow water of ponds: Groton and East Lyme (Graves), Guilford (G. H. Bartlett), Monroe (Eames), Woodbury (Harger). Aug.—Sept.

**Rynchospora fusca** (L.) Ait. f. (dusky).

Rare. Sphagnum bogs or swampy meadows: Thompson (Weatherby), Groton, Waterford and East Lyme (Graves), Griswold and Woodbury (Harger), Monroe (Eames). July—Sept.

**Rynchospora alba** (L.) Vahl (white).

Occasional or frequent. Peat swamps and open springy bogs. Aug.—Sept.

**Rynchospora glomerata** (L.) Vahl (densely clustered).

Common. Moist fields, meadows and in wet open places.  
July — Sept.

**CLADIUM** P. Br. Twig Rush.

**Cladium mariscoides** (Muhl.) Torr. (like Mariscus).

Borders of ponds and marshes, either salt or fresh. Rare or local inland: Stafford (Dr. E. J. Thompson & Weatherby), Woodbury (Harger), Monroe (Eames), Salisbury (Mrs. C. S. Phelps). Becoming occasional or frequent on the coast or in its vicinity. Aug.—Sept.

**SCLERIA** Bergius. Nut Rush.

**Scleria triglomerata** Michx. (three-headed).

Sandy soil either dry or moist. Rare or local in most districts: Griswold, Stonington and Waterford (Graves), South Windsor (J. F. Smith), Hartford (A. W. Driggs), Southington (Andrews & Bissell), Cheshire (Bissell). Becoming occasional along the coast in Fairfield County (Eames). July — Aug.

**Scleria pauciflora** Muhl. (few-flowered). var. *caroliniana* (Willd.) Wood.

*Scleria pauciflora* of recent Manuals in part.

Rare or local. Low meadows: Columbia (Mrs. C. S. Phelps), Hartford (H. J. Koehler). July — Sept.

**Scleria verticillata** Muhl. (whorled).

Local. Salisbury, plentiful in an open grassy swamp in sandy soil (H. S. Clark & Bissell). Aug.—Sept.

**CAREX** L. Sedge.

**Carex scoparia** Schk. (broom-like).

Common. Wet open ground, or sometimes in drier places.  
June — July.

The var. *MONILIFORMIS* Tuckerm. (necklace-shaped), and the var. *CONDENSA* Fernald (compact), both occur occasionally with the species.

**Carex tribuloides** Wahlenb. (like Tribulus, the Caltrop).

Frequent. Low meadows and swampy places. July—Aug.

The var. *TURBATA* Bailey (confused) is occasional.

**Carex tribuloides** Wahlenb., var. **reducta** Bailey (reduced).

*Carex tribuloides* Wahlenb., var. *moniliformis* Britton.

Rare. Cool swales: Woodstock (Weatherby), Franklin (R. W. Woodward), Winchester and Litchfield (Weatherby & Bissell), Salisbury (Weatherby). July.

**Carex siccata** Dewey (dry).

Occasional or local. Dry sandy or barren ground, usually growing in colonies. Late May—June.

**Carex Crawfordii** Fernald.

Local. Salisbury, in dry fields (M. L. Fernald). June.

**Carex cristata** Schwein. (crested).

*Carex tribuloides* Wahlenb., var. *cristata* Bailey.

*Carex cristatella* Britton.

Rare or local. Low meadows and thickets and along river banks: Ledyard (Graves), Southington (Andrews & Bissell), Oxford (Harger), Huntington and Kent (Eames), Salisbury (Bissell). June—July.

**Carex albolutescens** Schwein. (yellowish-white).

*Carex straminea* Willd., var. *foenea* Torr.

*Carex straminea* Willd., var. *cumulata* Bailey.

Locally plentiful near the coast in bogs and moist sandy ground in New London County; has been found also on the top of Bald Hill at 1200 ft. elevation, Union (Graves). July.

**Carex mirabilis** Dewey (wonderful).

*Carex straminea* Willd., var. *mirabilis* Tuckerm.

Occasional or frequent. Fields and copses, in either dry or moist ground. June.

The var. *PERLONGA* Fernald (very long) is occasional, usually in dry ground.

**Carex mirabilis** Dewey, var. **tincta** Fernald (dyed).

Rare. Dry open woods: East Hartford (Weatherby). June.

**Carex straminea** Willd. (straw-colored).

*Carex tenera* Dewey.

Rare. Woods and fields in wet sandy soil: Griswold (Graves), Thompson, West Hartford and Salisbury (Bissell), Ellington and East Hartford (Weatherby), Norfolk (Weatherby & Bissell). June.

**Carex hormathodes** Fernald (necklace-like).

*Carex tenera* of Britton's Manual, not Dewey.

*Carex straminea* Willd., var. *aperta* W. Boott.

In and about marshes. Rare inland: Killingly (Bissell). Frequent along the coast. June.

The var. *INVISa* (W. Boott) Fernald (unseen), *Carex straminea* Willd., var. *invisa* W. Boott, occurs on the coast and is frequent in Fairfield County (Eames).

**Carex hormathodes** Fernald, var. **Richii** Fernald.

Rare or occasional. Wet ground throughout. June.

**Carex Bicknellii** Britton.

Rare or local. In meadows or on shaded ledges, in either dry or moist ground: Sprague and Colchester (Graves), Thompson and Franklin (R. W. Woodward), East Hartford (Weatherby), Glastonbury and Southington (Bissell), Orange (Harger). June—July.

**Carex silicea** Olney (flinty).

Frequent on dunes and sandy beaches along the coast. July.

**Carex alata** Torr. (winged).

*Carex straminea* Willd., var. *alata* Bailey.

Rare. In wet ground: Hartford (A. W. Driggs), Southington (Bissell). June.

**Carex festucacea** Schk. (fescue-like), var. **brevior** (Dewey)

Fernald (shorter).

*Carex festucacea* Britton in part.

*Carex straminea* Willd., var. *brevior* Dewey.

Frequent or common. Dry sandy fields. June.

**Carex Bebbii** Olney.

Rare. Salisbury, marshy border of ponds and sloughs (Mrs. C. S. Phelps & A. E. Blewitt). June.

**Carex foenea** Willd. (hay-like).

Occasional. Dry rocky woods. June—July.

The var. *PERPLEXA* Bailey (confused) occurs at East Lyme (Graves), and at Southington (Andrews).

**Carex aenea** Fernald (brassy).

Rare. Salisbury, dry exposed ledges on Mt. Riga (Weatherby & Bissell). June.

**Carex stellulata** Good. (star-shaped).

*Carex echinata* Murr., var. *microstachys* Boeckl.

*Carex sterilis* of American authors, not Willd.

Frequent. Wet meadows and swamps. Late May—June.

**Carex stellulata** Good., var. *ormantha* Fernald (having a necklace-shaped inflorescence).

Rare. Wet places, growing with the typical form. June.

**Carex stellulata** Good., var. *excelsior* (Bailey) Fernald (taller).

*Carex sterilis* Willd., var. *excelsior* Bailey.

Occasional. Bogs and wet meadows. June.

**Carex stellulata** Good., var. *cephalantha* (Bailey) Fernald (having its flowers in a head).

*Carex sterilis* Willd., var. *cephalantha* Bailey.

*Carex echinata* Murr., var. *cephalantha* Bailey.

Occasional. Borders of swamps. June.

**Carex stellulata** Good., var. *angustata* Carey (narrow).

*Carex echinata* Murr., var. *angustata* Bailey.

Rare or local. Bogs and swamps: Ledyard and Waterford (Graves), East Hartford (A. W. Driggs & Bissell), Oxford (Harger), Huntington (Eames). June.

**Carex sterilis** Willd. (sterile).

*Carex echinata* Murr., var. *conferta* Bailey.

*Carex atlantica* Bailey.

Swampy places. Rare over most of the state: New London (Graves), Woodstock (R. W. Woodward & Weatherby), East Windsor and Southington (Bissell). Frequent near the coast in the vicinity of Bridgeport (Eames). June.

**Carex scirpoides** Schk. (like Scirpus, the Bulrush).

*Carex interior* Bailey.

Open swamps and peat bogs. Rare in eastern and central districts: Thompson (R. W. Woodward & Weatherby),



Waterford (Graves), Lyme (Dr. E. J. Thompson), Bolton (Weatherby), South Windsor (A. W. Driggs & Bissell), Southington (Andrews & Bissell), New Haven (Harger). Becoming occasional in the western part of the state. Late May—June.

**Carex scirpoides** Schk., var. *capillacea* (Bailey) Fernald (hair-like).

*Carex interior* Bailey, var. *capillacea* Bailey.

Shaded bogs. Rare in most parts of the state: Huntington (Eames), Thompson, Southington and East Haven (Bissell). Occasional in New London County (Graves). June.

**Carex seorsa** E. C. Howe (separate).

Wet shaded ground. Rare or local in most parts of the state: Bolton (A. W. Driggs), East Hartford (Weatherby), New Haven (R. W. Woodward), Southington (Andrews), Stratford (Eames), Oxford (Harger), Litchfield (Bissell). Occasional in New London County (Graves). June.

**Carex canescens** L. (somewhat hoary).

Rare. Wet woods and sphagnum bogs: Thompson, Southington and Norfolk (Bissell). June.

**Carex canescens** L., var. *subloliacea* Laestad. (somewhat like *Lolium*, the Tare).

Rare. Wet woods: Southington (Bissell). June.

**Carex canescens** L., var. *disjuncta* Fernald (disjoined).

*Carex canescens* in part and of most authors.

Frequent. Shaded swamps, wet bogs and beside brooks, often in shallow water. June.

**Carex brunnescens** Poir. (brownish).

*Carex canescens* L., var. *vulgaris* Bailey.

*Carex canescens* L., var. *alpicola* Wahlenb.

Rare. Cool mossy woods and shaded peat bogs: Wallingford (Harger), Winchester and Salisbury (Bissell). June.

**Carex bromoides** Schk. (like the Brome Grass).

Wet woods, shaded swamps and in springy places. Rare in eastern districts: Union (Bissell), East Haddam (Graves). Becoming occasional or frequent westward. June.

**Carex Deweyana** Schwein.

Rare. Woodland hillsides in rich, rather dry soil: Watertown (Harger), Colebrook (J. W. Robbins), Winchester (Weatherby & Bissell), Southington, Torrington, Canaan and Salisbury (Bissell), Danbury and Ridgefield (Eames), Cornwall (E. E. Brewster). June.

**Carex trisperma** Dewey (three-seeded).

Occasional. Cool bogs and sphagnum swamps. June—July.

**Carex tenella** Schk. (delicate).

Rare. Cool mossy woods: Waterford (Graves), Stafford (Weatherby & Bissell), Manchester (Weatherby), Norfolk (J. W. Robbins, 1828; Bissell), Barkhamsted and Cornwall (Bissell). June—July.

**Carex rosea** Schk. (rose-like).

Frequent. Rich woods and thickets or sometimes in open ground. June.

**Carex rosea** Schk., var. *radiata* Dewey (radiate).

Frequent. Woods, copses and meadows in either dry or moist ground. June.

**Carex rosea** Schk., var. *minor* Boott (smaller).

Rare. Woods or in open ground, more often in dry soil: Norwich (W. A. Setchell), East Hartford (A. W. Driggs), Farmington (Andrews), Southington (Andrews, Bissell), Plainville and Wolcott (Bissell). June.

**Carex retroflexa** Muhl. (bent backward).

*Carex rosea* Schk., var. *retroflexa* Torr.

Woods, copses and open ground, mostly in dry soil. Rare in northern and eastern districts: Ledyard (Graves), Norwich (W. A. Setchell), Scotland and Middlefield (Weatherby), Windsor (Bissell, A. W. Driggs), Southington (Andrews & Bissell), Oxford (Harger). Becoming frequent in the southwestern part of the state (Eames). June.

**Carex Muhlenbergii** Schk.

Frequent. Dry sterile soil. June—July.

The var. *ENERVIS* Boott (nerveless), var. *xalapensis* Britton, is rare inland: Franklin (R. W. Woodward), Killingly and Plainville (Bissell), Southington (Andrews), Oxford (Harger). Becoming occasional or frequent near the coast.

**Carex cephalophora** Muhl. (head-bearing).

Frequent. Dry soils, often in woods. July.

**Carex sparganioides** Muhl. (like Sparganium, the Bur-reed).

Rich woods, more often in rocky places. Rare in eastern districts: Norwich and Franklin (Graves), Bolton (A. W. Driggs). Becoming occasional or local westward. June.

**Carex cephaloidea** Dewey (head-like).

Rare or occasional. Rich shaded ground, more often in moist alluvium. June.

**Carex vulpinoidea** Michx. (like *Carex vulpina*, the Fox Sedge).

Common. Open ground, usually in moist but sometimes in dry places. June—July.

**Carex setacea** Dewey (bristle-like), var. **ambigua** (Barratt)

Fernald (doubtful).

*Carex xanthocarpa* Bicknell.

*Carex xanthocarpa* Bicknell, var. *annectens* Bicknell.

Occasional or frequent. Fields and meadows, either dry or moist. June—July.

**Carex diandra** Schrank (two-stamened).

*Carex teretiuscula* Good.

Local. In bogs: New Haven (O. D. Allen), Salisbury (Bissell). June.

**Carex diandra** Schrank, var. **ramosa** (Boott) Fernald (branching).

*Carex teretiuscula* Good., var. *ramosa* Boott.

*Carex teretiuscula* Good., var. *prairea* Britton.

Rare. Bogs and swamps: Salisbury (M. L. Fernald). June.

**Carex stipata** Muhl. (crowded).

Common. Swamps and wet meadows. June.

**Carex crinita** Lam. (long-haired).

Swamps and wet places. Rare in New London County: Stonington and East Lyme (Graves). Frequent or common elsewhere. June.

**Carex crinita** Lam., var. **gynandra** (Schwein.) Schwein. & Torr. (gynandrous).

*Carex gynandra* Schwein.

Occasional or frequent. Swamps and wet places. June.

**Carex aquatilis** Wahlenb. (aquatic).

Rare. Wet meadows or cold bogs: Lyme and Oxford (Harger), Salisbury (M. L. Fernald). June.

**Carex torta** Boott (twisted).

Banks of rivers and swift flowing streams. Rare near the coast: Lyme (Graves), Darien (Harger & Eames). Becoming frequent northward and common in the northwestern part of the state. May.

Roots very long and tough, the plant forming dense tufts or beds. The fruit ripens early and falls very quickly.

**Carex stricta** Lam. (straight).

Sword Grass. Nigger-heads.

Very common. Swales, wet meadows and about ponds, often forming large tussocks. June.

One of the best known and most plentiful of our sedges. Largely cut as bedding for stock.

**Carex stricta** Lam., var. *curtissima* Peck (very short).

Rare. In swamps: Waterford (Graves), Lyme (Weatherby). June.

**Carex stricta** Lam., var. *angustata* (Boott) Bailey (narrow).

*Carex stricta* Lam., var. *xerocarpha* Britton.

Wet meadows and in marshes. Rare in most districts: Voluntown (Graves), Southington (Andrews), Windsor and Salisbury (Bissell). Locally plentiful in marshes along the lower Housatonic River (Eames). June.

**Carex stricta** Lam., var. *decora* Bailey (elegant).

*Carex Haydeni* Dewey.

Rare. Low meadows: Franklin and Waterford (Graves), East Hartford (Weatherby), Glastonbury and Southington (Bissell). June.

**Carex aurea** Nutt. (golden).

Rare or local. Bloomfield, low field on outcrops of sandstone (Weatherby), Kent, moist calcareous rocks on the banks of the Housatonic River (Eames & J. Pettibone), Kent, wet upland pasture (Eames), Salisbury, moist meadows (Miss E. L. Shaw). June—July.

**Carex pauciflora** Lightf. (few-flowered).

Rare. Norfolk, sphagnum swamp (J. W. Robbins, 1827; Bissell). June.

**Carex leptalea** Wahlenb. (delicate).

*Carex polytrichoides* Muhl.

Frequent. Wet mossy woods and grassy swamps. May—June.

**Carex polygama** Schk. (polygamous).

*Carex fusca* Gray's Manual ed. 6, not All.

Local. Wet meadows and open swamps: New London and Franklin (Graves), Bolton, East Hartford and Bloomfield (Weatherby), East Windsor and Southington (Bissell), Plainville (J. N. Bishop), Hamden (A. L. Winton), Milford (Eames). May.

**Carex triceps** Michx. (three-headed), var. **hirsuta** (Willd.)

Bailey (hairy).

*Carex triceps* Britton in part, not Michx.

Fields and roadsides in sandy soil, either dry or moist: Old Lyme (Graves), Salisbury (Bissell). Frequent in central and southwestern Connecticut. June.

**Carex virescens** Muhl. (greenish).

*Carex virescens* Muhl., var. *costata* Dewey.

*Carex costellata* Britton.

Frequent. Dry woods and clearings, often in leaf-mold. July.

**Carex virescens** Muhl., var. **Swanii** Fernald.

*Carex virescens* of American authors.

Common. Dry woods and open grassy places. July.

**Carex formosa** Dewey (handsome).

Rare. Meadows and wooded hillsides in rich moist soil: Salisbury (J. R. Churchill). Late May—June.

**Carex Davisii** Schwein. & Torr.

Rare. Alluvial soil, along river banks or borders of low thickets: Windsor (A. W. Driggs), East Hartford (Weatherby), Lyme and Chester (R. W. Woodward & Graves). June.

**Carex gracillima** Schwein. (very delicate).

Frequent. Moist woods, thickets and meadows. June.

**Carex aestivalis** M. A. Curtis (of summer).

Rare. Salisbury, rocky woodland hillside (A. E. Blewitt).  
June—July.

**Carex Willdenowii** Schk.

Rare. Dry woods: East Haven (Harger), Hamden (J. A. Allen). Late May—early June.

**Carex umbellata** Schk. (bearing umbels).

Open ground, in dry sandy or rocky places. Occasional or frequent near the coast, becoming rare or local northward, reaching Woodstock (R. W. Woodward & Harger), Bolton (A. W. Driggs) and Barkhamsted (Harger). May.

The var. *TONSA* Fernald (clipped) occurs at North Stonington, rocky slope of Lantern Hill (Graves).

**Carex nigro-marginata** Schwein. (black-margined).

Rare. North Stonington, dry rocky slope of Lantern Hill (Graves). May.

**Carex communis** Bailey (growing in colonies).

*Carex pedicellata* Britton.

*Carex pedicellata* Britton, var. *Wheeleri* Britton.

*Carex communis* Bailey, var. *Wheeleri* Bailey.

Occasional or frequent. \*Rocky woods and on shaded banks. May—June.

**Carex varia** Muhl. (variable).

Occasional or frequent. Rocky or sandy woods and clearings. May—June.

The var. *COLORATA* Bailey (colored) occurs with the typical form.

**Carex pennsylvanica** Lam.

Common. Dry sandy or sterile soil, in woods and in open ground. May.

One of the most abundant species of the genus.

**Carex pennsylvanica** Lam., var. **lucorum** (Willd.) Fernald (of groves).

Rare or local. Dry or moist woods: West Hartford (Dr. E. J. Thompson), Meriden (Andrews), Southington (Bissell, Andrews), Fairfield (Eames). Late May—June.

**Carex pubescens** Muhl. (downy).

Woods, thickets and half-shade, usually in moist rich soil. Rare in New London County: North Stonington (Graves). Becoming occasional along the coast westward and frequent in northern districts. Late May—June.

**Carex livida** (Wahlenb.) Willd. (pale lead-color).

Rare. In bogs: New Haven (C. N. Shepard, 1830; O. D. Allen). May—June.

**Carex panicea** L. (like the Panic Grass).

Rare or local. Fields and meadows: New Haven (O. D. Allen), Orange (Eames & C. C. Godfrey). May—June. Native or possibly naturalized from Europe.

**Carex tetanica** Schk. (rigid).

Rare or local. Meadows and rocky woods: Waterford (Graves), Sherman (E. H. Austin & Eames), Salisbury (M. L. Fernald). Late May—June.

The var. *WOODII* (Dewey) Bailey occurs at Salisbury, in a cool shaded bog (M. L. Fernald).

**Carex polymorpha** Muhl. (of many forms).

Rare. East Lyme, low woods (Graves), New Haven, marshes (J. A. Allen, Andrews). June.

**Carex pallescens** L. (rather pale).

Common. Woods, fields and meadows, either wet or dry. May—June.

**Carex paupercula** Michx. (stunted), var. *pallens* Fernald (pale).

*Carex Magellanica* of Gray's Manual ed. 6 in part, not Lam.

Local. Norfolk, plentiful in a sphagnum bog (Bissell). June.

**Carex limosa** L. (growing in mud).

Rare. Sphagnum bogs: Burlington and Salisbury (Bissell), Norfolk (J. W. Robbins, 1828; Weatherby). June.

**Carex littoralis** Schwein. (of the sea-shore).

Rare or local. Swampy woods in sandy soil: East Windsor and South Windsor (Bissell), East Hartford (Weatherby), Windsor (A. W. Driggs), Stratford (Harger). Late May—early June.

**Carex prasina** Wahlenb. (leek-green).

Occasional. Along woodland brooks and in shaded swampy places. June.

**Carex eburnea** Boott (ivory-like).

*Carex setifolia* Britton.

Dry shaded ledges. Frequent in the limestone district of northwestern Connecticut, extending southward as far as New Milford (Eames). Rare or local among the trap hills of the Connecticut Valley: Plainville (Bissell), Southington (Andrews & Bissell), Durham (Harger). May—June.

**Carex pedunculata** Muhl. (stalked).

Rare, local or occasional. Wooded banks, in rich soil either moist or dry: Franklin (Graves), Stafford (Weatherby & Bissell), Manchester (A. W. Driggs), Windsor, Barkhamsted and Salisbury (Bissell), Meriden (D. C. Eaton), Oxford and Southbury (Harger), Monroe (H. C. Beardslee), Weston (Eames & C. C. Godfrey), Cornwall (E. E. Brewster). Late April—early May.

The fruit falls very quickly on ripening.

**Carex plantaginea** Lam. (like *Plantago*, the Plantain).

Rare or local. Moist rich woods: North Branford (O. Harger), Colebrook (J. W. Robbins, 1828), Norfolk (Weatherby & Bissell), Torrington and Salisbury (Bissell), Sherman (C. K. Averill). May.

**Carex platyphylla** Carey (broad-leaved).

Rocky hillsides in rich woods, usually in dry soil. Rare or absent near the coast: Wilton (Miss A. E. Carpenter), Huntington (Eames). Becoming occasional or frequent northward and common in the limestone district of northwestern Connecticut. May.

**Carex laxiculmis** Schwein. (loose-stalked).

Frequent. Woods and half-shade, usually in rich soil. June.

**Carex digitalis** Willd. (of a finger).

Common. Rich woods and glades, more often in rather dry soil. June.



- Carex ptychocarpa** Steud. (having folds on the fruit).  
Rare. Waterford, in rocky woods (Graves). June.
- Carex laxiflora** Lam. (loose-flowered).  
Rich woods. Rare in northern and eastern Connecticut, becoming occasional or frequent in Fairfield County. Late May—June.
- Carex laxiflora** Lam., var. **gracillima** Boott (very slender).  
Rare. Borders of moist thickets: Oxford (Harger), Litchfield (Bissell). Late May.
- Carex laxiflora** Lam., var. **patulifolia** (Dewey) Carey (with spreading leaves).  
Occasional or frequent. Rich woods or thickets. Late May—early June.
- Carex laxiflora** Lam., var. **styloflexa** (Buckley) Boott (having bent styles).  
*Carex styloflexa* Buckley.  
Rare. Rocky or moist woods or in sphagnum swamps: Lyme (Graves), East Haddam (Weatherby), New Haven (J. A. Allen), Southington (Bissell), Oxford (Harger), Fairfield (Eames). June.
- Carex laxiflora** Lam., var. **varians** Bailey (varying).  
Occasional. Rich woods and thickets. Late May—June.
- Carex laxiflora** Lam., var. **blanda** (Dewey) Boott (agreeable).  
*Carex laxiflora* Lam., var. *striatula* Carey.  
Frequent or common. Rich open woods or in half-shade, in either dry or moist ground. Late May—June.
- Carex laxiflora** Lam., var. **latifolia** Boott (broad-leaved).  
*Carex albursina* Sheldon.  
Rare or local. Moist rich woods: Groton and Waterford (Graves), East Haven and Salisbury (Bissell), Southington (Andrews & Bissell), Seymour (Harger), Oxford (R. W. Woodward & Eames), Winchester (Weatherby & Bissell). May—early June.
- Carex laxiflora** Lam., var. **leptonervia** Fernald (delicately nerved).  
Rare. Wet woods or sphagnum bogs: Franklin (R. W. Woodward), West Hartford and Winchester (Bissell). May—June.

**Carex Hitchcockiana** Dewey.

Rare or local. Rocky hillsides in rich woods: Middlefield (R. W. Woodward), Southington (Andrews & Bissell), Plainville and Farmington (Bissell). June.

**Carex oligocarpa** Schk. (few-fruited).

Rare. Shaded ledges in rich woods: Colebrook (J. W. Robbins, 1828), Salisbury (M. L. Fernald). June.

**Carex conoidea** Schk. (cone-shaped).

Common. Moist meadows and wet places. June.

**Carex grisea** Wahlenb. (gray).

Occasional. Woods and meadows in rich soil. June.

The var. *RIGIDA* Bailey (rigid), var. *angustifolia* Gray's Manual ed. 6, not Boott, is rare over most of the state: Southington, Torrington and North Canaan (Bissell). Occasional in Fairfield County (Eames).

**Carex glaucoidea** Tuckerm. (gray-green).

Rare. Rich or rocky woods and fields or in moist meadows: Ledyard and Groton (Graves), Franklin (R. W. Woodward), Hartford and West Hartford (A. W. Driggs), Meriden (Andrews), Woodbridge (O. D. Allen). June.

**Carex granularis** Muhl. (granular).

Rare or local. Moist meadows: East Haven, Meriden and Oxford (Harger), New Haven (D. C. Eaton), Southington (Andrews & Bissell), Bloomfield and North Canaan (Bissell), Ridgefield and Kent (Eames & C. C. Godfrey). June.

**Carex granularis** Muhl., var. *Haleana* (Olney) Porter.

*Carex granularis* Muhl., var. *Shriveri* Britton.

*Carex Shriveri* Britton.

Rare. Wet meadows and pastures: Ridgefield (Eames & C. C. Godfrey), Salisbury (M. L. Fernald & Bissell). June.

**Carex Crawei** Dewey.

Rare. Moist fields and meadows: Salisbury (Mrs. C. S. Phelps & Weatherby). June—July.

**Carex flava** L. (yellow).

Low fields and meadows. Rare or absent in most districts: Berlin (N. Coleman), Ridgefield (Eames & C. C. Godfrey). Frequent or common in Litchfield County. June.

**Carex flava** L., var. **rectirostra** Gaudin (straight-beaked).*Carex flava* L., var. *graminis* Bailey.

Local. Swamps and wet meadows: Woodstock (Harger), Ashford and Stafford (Weatherby &amp; Bissell), Union and Colchester (Graves). June — July.

**Carex flava** L., var. **elatio** Schlecht. (taller).

Rare. Low ground: Ridgefield and Kent (Eames &amp; C. C. Godfrey). June.

**Carex Oederi** Retz., var. **pumila** (Cosson & Germain) Fernald (dwarf).*Carex flava* L., var. *viridula* Bailey.*Carex viridula* Michx.

Rare. East Haven, in moist meadows (Harger); New Haven, in salt marsh (D. C. Eaton); Kent, in sand on shore of pond (Eames); Salisbury, in wet ground (Mrs. C. S. Phelps). June — July.

**Carex longirostris** Torr. (long-beaked).

Rich rocky woods in either moist or dry places, or on river banks. Local from the Connecticut River westward except near the coast in the southwestern part of the state where it is not reported. Late May — June.

**Carex castanea** Wahlenb. (chestnut-colored).

Rare. Alluvial soil: Salisbury (J. Young, 1828). Apparently has not been collected since that date. June.

**Carex arctata** Boott (contracted).

Rare. Hillsides in rich woods: Bridgeport (Eames), Barkhamsted, Norfolk and Canaan (Bissell), Cornwall (Harger). May.

**Carex debilis** Michx. (weak), var. **Rudgei** Bailey.*Carex tenuis* Rudge.

Frequent. Dry or moist woods and in meadows. June — July.

**Carex debilis** Michx., var. **interjecta** Bailey (thrown between).

Rare. Rocky woods: Southington (Andrews &amp; Bissell). June — July.

**Carex scabrata** Schwein. (rough).

Local or occasional. Wet woods, about springs and along streams. July.

**Carex filiformis** L. (thread-like).

Open swamps and bogs. Local in the northern part of the state: Woodstock (Weatherby), Union and East Granby (Weatherby & Bissell), Burlington and Salisbury (Bissell). Becoming frequent southward. June.

**Carex lanuginosa** Michx. (woolly).

*Carex filiformis* L., var. *latifolia* Boeckl.

Wet meadows, bogs and about ponds. Rare in New London County: Norwich (W. A. Setchell), Waterford and Franklin (Graves). Frequent elsewhere. June.

**Carex vestita** Willd. (clothed).

Frequent or common. Sandy soils, either dry or moist. June.

**Carex oligosperma** Michx. (few-seeded).

Rare. Groton, in peat bogs (Graves), South Windsor (A. E. Blewitt). June—July.

**Carex trichocarpa** Muhl. (with hairy fruit).

Local. Thomaston, in wet ground (A. E. Blewitt). June—July.

**Carex riparia** W. Curtis (of river banks).

Occasional or local. Wet meadows and swamps. June.

**Carex squarrosa** L. (with spreading scales).

Rare or local. Wet meadows and pastures: Guilford (G. H. Bartlett), Chester (R. W. Woodward & Harger), North Branford and East Haven (Harger), New Haven (G. G. Merrell), Middletown (J. Barratt), Southington (Andrews & Bissell). June—July.

**Carex typhina** Michx. (like Typha, the Cat-tail).

*Carex typhinoides* Schwein.

Rare. Wet alluvium and in meadows: Guilford (G. H. Bartlett), East Haven (Eames), East Hartford (A. W. Driggs), Hartford (Harger, H. S. Clark & Bissell). June—July.

**Carex Pseudo-Cyperus** L. (false Cyperus).

Rare. Salisbury, muddy border of Twin Lakes (Mrs. C. S. Phelps & Bissell). June—July.

**Carex comosa** Boott (having tufts of hair).

*Carex Pseudo-Cyperus* L., var. *americana* Hochst.

Occasional. Swamps and wet places along streams. June—July.

**Carex hystericina** Muhl. (porcupine-like).

Rare or local. Wet springy pastures and meadows and in swales: Lyme (H. S. Clark), Manchester (Weatherby), Southington (Andrews & Bissell), Prospect, Oxford and Southbury (Harger), Stafford, Sharon and Salisbury (Bissell). June—July.

The var. *COOLEYI* Dewey, var. *Dudleyi* Bailey, occurs at Wethersfield (C. Wright), Southington and Sharon (Bissell).

Many reports of this species should be referred to *Carex lurida*.

**Carex lurida** Wahlenb. (dingy brown or yellow).

*Carex lurida* Wahlenb., var. *flaccida* Bailey.

*Carex lurida* Wahlenb., var. *parvula* Bailey.

*Carex lurida* Wahlenb., var. *exundans* Bailey.

Common. Swamps and wet places. July—Aug. A hybrid of this with *Carex lupulina* has been found at Groton and Lyme (Graves).

Very variable with several intergrading forms.

**Carex lurida** Wahlenb., var. *gracilis* (Boott) Bailey (slender).

*Carex Baileyi* Britton.

Rare. East Lyme, in bogs (Graves). July—Aug.

**Carex Schweinitzii** Dewey.

Rare. Salisbury, in open swamps and wet meadows: (M. L. Fernald). June.

**Carex retrorsa** Schwein. (turned backward).

Rare or local. Wet meadows or in moist alluvial soil: Lyme (Graves), Huntington (Harger), Salisbury (Bissell). June—July. A supposed hybrid of this with *Carex rostrata* was found in Connecticut many years ago by Charles Wright.

**Carex lupuliformis** Sartwell (hop-shaped; referring to the head of fruit).

*Carex lupulina* Muhl., var. *polystachya* Schwein. & Torr.

Rare. Bogs or shaded swamps: Southington (Andrews & Bissell), Huntington and Monroe (Eames). Aug.—Sept.

**Carex lupulina** Muhl. (like *Lupulus*, the Hop).

Frequent or common. Swamps and wet ground. July—Aug.

**Carex lupulina** Muhl., var. *pedunculata* Dewey (stalked).

Local or occasional. Swamps, growing with the typical form. July—Aug.

**Carex Grayii** Carey.

*Carex Asa-Grayi* Bailey.

Alluvial soil along streams or in moist rich ground. Local along the Connecticut River: Lyme (Graves), Haddam (H. S. Clark & Bissell), East Hartford (Weatherby). Rare elsewhere: Middletown, at Westfield, and Southington (Andrews & Bissell), Salisbury (G. H. Bartlett). June.

**Carex Grayii** Carey, var. *hispidula* Bailey (minutely hispid).

Local. Hartford, alluvial soil on bank of the Connecticut River (H. S. Clark & Bissell). June.

**Carex intumescens** Rudge (swollen).

Frequent. Swamps and wet places. June—July.

**Carex intumescens** Rudge, var. *Fernaldii* Bailey.

Rare. Salisbury, in rocky woods (A. E. Blewitt).

**Carex folliculata** L. (like a small bag).

Frequent. Wet boggy meadows and swampy woods. June—Aug.

**Carex vesicaria** L. (bladdery).

*Carex monile* of Gray's Manual ed. 6, not Tuckerm.

Occasional. Low meadows, borders of ponds and near river banks. June.

The var. *MONILE* (Tuckerm.) Fernald (necklace), *Carex monile* Tuckerm., is occasional. The var. *JEJUNA* Fernald (insignificant) occurs rarely with the species. The var. *DISTENTA* Fries (swollen) is rare: East Hartford (Weatherby), Windsor (H. S. Clark & Bissell).

**Carex rostrata** Stokes (beaked).*Carex utriculata* Boott, var. *minor* Boott.

Swamps and wet meadows or in shallow water. Rare over most of the state: Waterford (Graves), Plainville, Woodbridge and Oxford (Harger), Monroe (Eames). Occasional in Litchfield County (Bissell). June—July.

**Carex rostrata** Stokes, var. **utriculata** (Boott) Bailey (bottle-like).*Carex utriculata* Boott.

Peat bogs and wet meadows. Rare in most districts: Stratford (Eames), New Haven and Monroe (Harger), East Granby and Putnam (Weatherby), Glastonbury and Thompson (Bissell). Occasional in New London County (Graves). June—July.

**Carex bullata** Schk. (having bubbles or blisters).*Carex bullata* Schk., var. *Olneyi* Bailey.

Rare. Voluntown, in Great Cedar Swamp (Graves). June—July.

**Carex bullata** Schk., var. **Greenii** (Boeckl.) Fernald.*Carex bullata* of Manuals.

Local. In swamps: Voluntown, Stonington and Colchester (Graves), Columbia (Weatherby), Ellington (F. N. Pease). June—July.

**Carex Tuckermani** Dewey.

Rare or local. Moist alluvial soil on banks of rivers and coves: Windsor (A. W. Driggs), Hartford (C. Wright), Southington (Andrews, Bissell), Southbury (Harger), Torrington and Salisbury (Bissell), Canaan (J. W. Robbins, 1828). June—July.

## ARACEAE. ARUM FAMILY.

**ARISAEMA** Martius. Dragon Arum. Indian Turnip.**Arisaema triphyllum** (L.) Schott (three-leaved).*Arisaema triphyllum* Schott, var. *pusillum* Peck.*Arisaema pusillum* Nash.

Jack-in-the-Pulpit. Indian or Wild Turnip.

Common. Rich or moist woods. Late April—May; fruit late Aug.—Nov.

The corm or tuber is intensely acrid, but this property is lost upon being heated, leaving 10 to 18% of starch. The corm is medicinal.

**Arisaema Dracontium** (L.) Schott (classical name for some species of *Arum*).

Green Dragon. Dragon Root.

Low grounds near streams and rivers. Rare in the eastern part of the state, becoming occasional westward. May—June; fruit Aug.—Sept.

**PELTANDRA** Raf. Arrow Arum.

**Peltandra virginica** (L.) Kunth.

*Peltandra undulata* Raf.

Arrow Arum.

Occasional or frequent. Shallow water of ponds and streams and sometimes in bogs. June—July; fruit Sept.—Oct.

**CALLA** L. Water Arum.

**Calla palustris** L. (of marshes).

Wild or Marsh Calla.

Occasional or local. Cold bogs and shaded swamps, sometimes forming extensive colonies. May—June; fruit July—Sept.

The rootstocks are edible after an acrid principle they contain has been dissipated by cooking, and they are said to be sometimes used for food in parts of Europe. The Calla Lily of cultivation is not a true *Calla*, but is a species of the genus *Richardia*.

**SYMPLOCARPUS** Salisb. Skunk Cabbage.

**Symplocarpus foetidus** (L.) Nutt. (ill-smelling).

*Spathyema foetida* Raf.

Skunk Cabbage.

Common. Wet ground. March—April; fruit July—Sept., persisting into the winter.

The rootstocks are reputed to have medicinal value.



**ORONTIUM** L. Golden Club.**Orontium aquaticum** L. (aquatic).

Golden Club.

Occasional or local. Mostly in shallow waters of the larger rivers and their tributaries where extensive colonies are often formed; sometimes in swamps and along small streams. May — early June; fruit June — July.

The seeds and rootstocks are said to have been used for food by the Indians after destroying, by cooking, the acrid principle which they contain.

**ACORUS** L. Sweet Flag. Calamus.**Acorus Calamus** L. (classical name for some Reed).

Sweet Flag. Calamus.

Frequent. Wet meadows, swamps and borders of ponds and streams, often forming large colonies. May — June.

The aromatic rootstock is often candied, is of some medicinal value and is officinal.

**LEMNACEAE.** DUCKWEED FAMILY.**SPIRODELA** Schleid.**Spirodela polyrhiza** (L.) Schleid. (many-rooted).

Greater Duckweed.

On still water of ponds and pools. Occasional in the southeastern part of the state; frequent or locally common elsewhere. July — Aug.

Rarely seen in flower.

**LEMNA** L. Duckweed. Duck's-meat.**Lemna trisulca** L. (three-furrowed).

Duck's-meat.

Still or running water. Rare in the south central, occasional in the southwestern, frequent to common in the northern and western parts of the state; not reported from the eastern portion. July.

**Lemna valdiviana** Philippi.*Lemna cyclostasa* of authors.

Shallow water of ponds and rapid waters of brooks and rivers. Occasional in the southeastern, locally common in the

southwestern part of the state; apparently rare elsewhere. June—July, but neither flowers or fruit seen here.

Often occurs in large tangled strings, balls and irregular masses, either floating free or clinging to twigs and stones.

**Lemna minor** L. (smaller).

Lesser Duckweed.

Ponds and stagnant water of pools and ditches. Rare in southeastern Connecticut; frequent in Hartford and Litchfield Counties; common in the southwestern part of the state. June—July.

**WOLFFIA** Horkel.

**Wolffia columbiana** Karst.

Wolffia.

Local. Surface of ponds, plentiful where it occurs: Woodbury and Ridgefield (Eames & C. C. Godfrey), Kent (Eames), New Milford (J. W. Robbins, 1829), Salisbury (J. W. Robbins, Mrs. C. S. Phelps). June—July.

The plants of this species are the smallest of our flowering plants, being little globules about 1-25th of an inch in diameter.

**ERIOCAULACEAE. PIPEWORT FAMILY.**

**ERIOCAULON** L. Pipewort.

**Eriocaulon septangulare** Withering (seven-angled).

Pipewort.

Borders of ponds and rivers, in either shallow or deep water. Frequent in the southeastern part of the state; occasional elsewhere. July—Sept.

**XYRIDACEAE. YELLOW-EYED GRASS FAMILY.**

**XYRIS** L. Yellow-eyed Grass.

**Xyris caroliniana** Walt.

Occasional or local. Bogs or sphagnum swamps. July—Sept.

**Xyris flexuosa** Muhl. (flexuous).

Yellow-eyed Grass.

Sandy bogs. Occasional to frequent in most sections but not reported from the southwestern part of the state. July—Sept.

**Xyris Smalliana** Nash.*Xyris Congdoni* Small.

Rare or local. Borders of ponds or in sandy bogs: Salem (Graves), East Lyme (Miss A. M. Ryon & Graves), Guilford (G. H. Bartlett). Aug.—Sept.

## COMMELINACEAE. SPIDERWORT FAMILY.

## TRADESCANTIA L. Spiderwort.

**Tradescantia virginiana** L.

Trinity. Spiderwort. Spider Lily. Job's Tears.

Rare or occasional. Roadsides and waste places, or sometimes in river meadows. In most cases adventive or naturalized from the southeastern United States as an escape from gardens; possibly native at Southbury (Harger) and Fairfield (L. N. Johnson). May—July.

## COMMELINA L. Day-flower.

**Commelina communis** L. (growing in colonies).*Commelina nudiflora* of authors, not L.

Day-flower.

Occasional to frequent. Waste places and cultivated ground as an escape from cultivation; usually in or near cities. July—Nov. Naturalized from the South or from Asia.

## PONTEDERIACEAE. PICKEREL-WEED FAMILY.

## PONTEDERIA L. Pickerel-weed.

**Pontederia cordata** L. (heart-shaped).

Pickerel-weed.

Common. Shallow water of ponds and streams. July—Aug.

The var. *ANGUSTIFOLIA* Torr. (narrow-leaved) occurs at Old Lyme (H. S. Clark).

## HETERANTHERA R. &amp; P. Mud Plantain.

**Heteranthera reniformis** R. & P. (kidney-shaped).

Rare. Muddy shores of the Housatonic River at Derby (G. W. Hawes & Harger), and along the river southward to salt water (Eames). Late Aug.—Sept.; fruit Sept.—Oct.

**Heteranthera dubia** (Jacq.) MacM. (doubtful).*Heteranthera graminea* Vahl.

Water Star Grass.

Rare or local. Shallow water of larger rivers, such as the Connecticut and Housatonic, or sometimes in ponds. July—Sept.

**EICHHORNIA** Kunth.**Eichhornia crassipes** (Martius) Solms (thick-stemmed).

Water Hyacinth.

Rare. A few plants were found in the Pequonnock River, Bridgeport (C. K. Averill, 1893). June—Aug. Fugitive from Brazil.

The plant is not hardy in this climate, but in Florida it has multiplied in the St. John's river system to such an extent as seriously to obstruct navigation.

**JUNCACEAE. RUSH FAMILY.****JUNCUS** L. Rush. Bog Rush.**Juncus bufonius** L. (of toads).

Toad Rush. Toad Grass. Frog Grass.

Frequent to common. Open, moist, sandy places. Fruit mid-June—Aug.

**Juncus Gerardi** Loisel.

Black Grass.

Common on salt marshes and meadows along the coast. Fruit June—Aug.

Is valued for fodder and constitutes much of the salt hay cut by farmers.

**Juncus tenuis** Willd. (slender).

Yard Rush. Slender Rush.

Common. Fields, pastures, open woods, roadsides and paths, in either dry or moist ground. Fruit mid-June—Sept.

This species is said to be readily eaten by stock, and when made into hay to contain 7% crude protein.

**Juncus tenuis** Willd., var. *anthelatus* Wiegand (having a cyme with lateral branches overtopping the central ones).

Rare. Low sandy or grassy places: Southington (Andrews

& Bissell), Lyme (Graves & Bissell), Granby (Weatherby).  
Fruit July — Sept.

**Juncus tenuis** Willd., var. **Williamsii** Fernald.

Rare. Open moist or dry ground: Groton (Graves), Putnam (Weatherby & Bissell), Salisbury (Bissell). Fruit July — Aug.

**Juncus secundus** Beauv. (one-sided).

*Juncus tenuis* Willd., var. *secundus* Engelm.

Sandy places and ledgy hillsides, mostly in dry ground. Occasional in most districts but apparently rare in the southwestern part of the state. Fruit July — Sept.

**Juncus Dudleyi** Wiegand.

Rare. Sandy or sterile ground: Windsor (A. W. Driggs), Meriden (Andrews), South Windsor, Sharon and Salisbury (Bissell). Fruit June — July.

**Juncus dichotomus** Ell. (forking by pairs).

Rare on borders of salt marshes and in dry open fields near the coast: Groton (Graves), Milford (Harger). Fruit July — Aug.

**Juncus dichotomus** Ell., var. **platyphyllus** Wiegand (broad-leaved).

Rare. Fields: Groton (Graves). Fruit July — Aug.

**Juncus Greenei** Oakes & Tuckerm.

Dry, open, generally sandy but sometimes ledgy places. Frequent along the coast; becoming occasional or rare inland, reaching Waterbury (A. E. Blewitt), Southington, on Wolcott Mt. at 900 ft. elevation (Andrews), and Union, on Bald Hill at 1250 ft. elevation (Bissell). Fruit July — Sept.

**Juncus effusus** L. (loosely spreading).

Bulrush. Common, Soft, Bog, or Candle Rush.

Common. Marshes, low fields and open swamps. Fruit July — Aug.

The var. **COMPACTUS** Lejeune & Courtois (pressed together) has been collected at Franklin (R. W. Woodward).

Sometimes used for weaving into mats.

**Juncus brachycephalus** (Engelm.) Buchenau (short-headed).

*Juncus canadensis* J. Gay, var. *brachycephalus* Engelm.

Rare. Swamps and bogs: Salisbury and Sharon (Bissell).  
Fruit Aug.—Sept.

**Juncus brevicaudatus** (Engelm.) Fernald (short-tailed).

*Juncus canadensis* J. Gay, var. *brevicaudatus* Engelm.

*Juncus canadensis* J. Gay, var. *coarctatus* Engelm.

Occasional. Bogs and moist sandy places. Fruit Aug.—Sept.

**Juncus canadensis** J. Gay.

*Juncus canadensis* J. Gay, var. *longicaudatus* Engelm.

Frequent. Open swamps and wet meadows. Fruit Aug.—Sept.

**Juncus canadensis** J. Gay, var. *subcaudatus* Engelm. (somewhat tailed).

Rare or occasional. Low moist ground, often in shade: Sprague and Stafford (Graves), Lyme, East Windsor, Farmington and Southington (Bissell). Fruit Aug.—Sept.

**Juncus pelocarpus** Mey. (dark-fruited).

Sandy or muddy shores of ponds and streams. Occasional in the southeastern part of the state; apparently rare or local elsewhere. Fruit Aug.—Sept.

Often proliferous.

**Juncus militaris** Bigel. (soldierly).

Rare or local. Shallow water of ponds: Groton and East Lyme (Graves), Guilford (G. H. Bartlett & Bissell). Fruit July — Sept.

**Juncus nodosus** L. (knotty).

Knotted Rush.

River banks and moist sandy soil bordering swamps, ponds or small streams. Rare in most districts: Oxford (Harger), Cornwall (R. W. Woodward), Norfolk, Litchfield and Salisbury (Bissell). Occasional along the Connecticut River from East Windsor (Bissell) to Lyme (Graves). Fruit July — Aug.

**Juncus brachycarpus** Engelm. (short-fruited).

Rare. New London, low ground near Ocean Beach (Graves). Fruit July. A fugitive, probably from the West or South.

**Juncus acuminatus** Michx. (taper-pointed).

Frequent. Open swamps and wet meadows. Fruit July — Sept.

Often prolific.

**Juncus debilis** Gray (weak).

*Juncus acuminatus* Michx., var. *debilis* Engelm.

Rare. Pond shores and borders of swamps: Waterford and Ledyard (Graves). Fruit Aug.

**Juncus articulatus** L. (jointed).

Low and moist, mostly sandy places. Occasional to frequent in New London County; rare or occasional in Middlesex, Hartford and Litchfield Counties; not reported elsewhere. Fruit July — Sept.

**Juncus articulatus** L., var. **obtusatus** Engelm. (blunt).

Rare. Low moist ground: Stafford and Glastonbury (Bissell). Fruit July — Sept.

**Juncus marginatus** Rostk. (with a distinct border).

Frequent. Grassy places, mostly in moist ground. Fruit July — Sept.

**LUZULA** DC. Wood Rush.**Luzula saltuensis** Fernald (of forests).

*Luzula vernalis* Gray's Manual ed. 6, not DC.

*Juncoides pilosum* Coville, not Kuntze.

Hairy Wood Rush.

Rocky or moist open woods. Occasional in the northwestern part of the state (Bissell). Rare elsewhere: Guilford (G. H. Bartlett), North Branford and Watertown (Harger). April — May; fruit May.

**Luzula campestris** (L.) DC. (of fields), var. **multiflora** (Ehrh.)

Celak. (many-flowered).

*Luzula campestris* of American authors, not DC.

*Juncoides campestre* of American authors, not Kuntze.

Common. Woods and fields, in either dry or moist ground. April — May; fruit June — July.

## LILIACEAE. LILY FAMILY.

## CHAMAELIRIUM Willd. Devil's Bit.

**Chamaelirium luteum** (L.) Gray (yellow).

*Chamaelirium carolinianum* Willd.

Blazing Star. True Unicorn-root.

Meadows and low woods. Occasional in the southwestern part of the state, becoming rare or local northward and eastward, reaching Salisbury (Bissell), East Haddam (W. E. Selden, Dr. E. J. Thompson). May—June.

The rootstock is medicinal.

## MELANTHIUM L.

**Melanthium latifolium** Desr. (broad-leaved).

*Melanthium racemosum* Michx.

Crisped Bunch-flower.

Rare. Dry woods: Greenwich, at North Greenwich (P. Alcott, 1869). July—Aug.

## VERATRUM L. False Hellebore.

**Veratrum viride** Ait. (green).

American White Hellebore. Indian Poke. Green Hellebore. Poor Annie.

Frequent to common. Wet woods, open swamps and wet meadows. May—June.

The rootstock is medicinal, is an active poison and is official. The early colonists used the plant as an insecticide.

## UVULARIA L. Bellwort.

**Uvularia perfoliata** L. (through a leaf; i. e., with leaves clasping the stem).

Bellwort.

Frequent. Dry or moist ground, usually in woods but sometimes occurring in fence-rows or even in fields. May—June.

The root is medicinal and has acquired some local reputation as a remedy against snake bites.



**OAKESIA** Wats.

**Oakesia sessilifolia** (L.) Wats. (having leaves without leaf-stalks).

*Uvularia sessilifolia* L.

Bellwort.

Frequent to common. Woods, thickets and meadows, in either dry or moist ground. May—June.

**ALLIUM** L. Onion. Garlic.

**Allium tricoccum** Ait. (having three grains; referring to the three-lobed fruit).

Wild Leek.

Occasional or frequent. Woods, usually in rich but sometimes in sandy soil. Late June—July.

If eaten by cows in the spring, the milk and butter are tainted.

**Allium canadense** L.

Wild or Meadow Garlic.

Frequent. Meadows bordering streams and rivers, sometimes also in sandy ground and on dry hillsides. June.

Rarely used as a substitute for common garlic.

**Allium vineale** L. (of vineyards).

Field or Wild Garlic. Wild Onion.

Waste places, grain fields and meadows. Rare in southeastern Connecticut, occasional to frequent elsewhere. Mid-June—July. Naturalized from Europe.

A bad weed, both in pastures, where it taints the milk of animals feeding upon it, and in grain fields, where the bulblets mixing with grain injure it for milling.

**HOSTA** Tratt. Day Lily. Plantain Lily.

**Hosta caerulea** (Andr.) Tratt. (sky-blue).

*Funkia ovata* Spreng.

Blue Day Lily.

Rare. Roadsides near dwellings as an escape from gardens: Montville (Graves), Bridgeport and Fairfield (Eames). July. Native of Japan.

**Hosta japonica** (Thunb.) Aschers.*Funkia lancifolia* Spreng.

Rare. Escaped from gardens to roadsides: Montville (Graves), Stafford (Bissell). July — Aug. Native of Japan.

**HEMEROCALLIS** L. Day Lily.**Hemerocallis flava** L. (yellow).

Yellow Day Lily. Lemon Lily.

Rare. Escaped from cultivation to fields and roadsides: Groton, near Poquonnock Lake (Graves, Harger, Bissell et al.), Meriden (Bissell), Westport (Eames), Wilton (Miss A. E. Carpenter). June. Adventive from Europe.

**Hemerocallis fulva** L. (reddish-yellow).

Common Day Lily.

Frequent. Escaped from cultivation to fields, roadsides and waste places. Mid-June — Aug. Naturalized from Europe.

Troublesome and difficult to eradicate in moist rich ground.

**LILIUM** L. Lily.**Lilium philadelphicum** L.

Wild Orange-red Lily. Red or Wood Lily.

Frequent. Dry or moist thickets, pastures and open woods. Late June — July.

**Lilium superbum** L. (superb).

Turk's-cap Lily. Wild Tiger Lily.

Marshes and low fields. Frequent near the coast in the southeastern part of the state, becoming occasional or local westward, reaching Stamford (W. H. Hoyt); not reported far inland. July — Aug.

**Lilium canadense** L.

Wild Yellow Lily. Canada Lily.

Frequent. Moist meadows, bogs and open swamps. July.

**Lilium tigrinum** Ker (of tigers).

Tiger Lily.

Rare or occasional. Escaped from gardens to fence-rows, roadsides and waste places. Aug. Adventive from Asia.

In Japan and China the bulbs are eaten.

**ERYTHRONIUM** L. Dog's-tooth Violet.**Erythronium americanum** Ker.

Yellow Adder's Tongue. Yellow Dog's-tooth Lily or Violet.  
Snake-leaf. Trout Lily.

Meadows and rich woods. Local in southeastern Connecticut, common elsewhere. April — May.

Sometimes used as a pot-herb. The dried bulbs, if not kept too long, are said to be nutritious. The leaves and root are medicinal.

**ORNITHOGALUM** L. Star of Bethlehem.**Ornithogalum umbellatum** L. (umbellate).

Star of Bethlehem. Go-to-Bed-Noon.

Rare or occasional. Escaped from gardens to fields and waste places, mostly near dwellings and in shaded moist ground. May — June. Naturalized from Europe.

**MUSCARI** Mill. Grape Hyacinth.**Muscari botryoides** (L.) Mill. (like a cluster of grapes).

Grape Hyacinth. Babies' Breath.

Rare. Roadsides and grassland near dwellings, as an escape from cultivation: Norwich (Mrs. E. E. Rogers), East Lyme (Graves), Seymour and Southbury (Harger), New Haven (Eaton Herb.), Milford (Eames & C. C. Godfrey). May. Adventive from Europe.

**Muscari racemosum** (L.) Mill. (racemose).

Starch Grape Hyacinth. Feather Hyacinth.

Rare or local. Grassland near dwellings: New London and Lyme (Graves), Guilford (G. H. Bartlett), Fairfield (Eames), Stamford (W. H. Hoyt). May. Naturalized from Europe.

Reproduces quite rapidly by forming new bulbs, is very persistent and may give much trouble in lawns.

**YUCCA** L. Bear Grass. Spanish Bayonet.**Yucca filamentosa** L. (bearing slender threads).

Adam's Needle. Thread-and-Needle.

Rare. Escaped from cultivation to waste ground: Groton

(Harger, Bissell, Graves et al.), Bridgeport and Fairfield (Eames). May—July. Adventive from the South.

The plant yields a strong fiber. The roots form a lather with water and were formerly used in the region where it is plentiful in place of soap.

### ASPARAGUS L. Asparagus.

#### **Asparagus officinalis** L. (of the shops).

Garden Asparagus.

Frequent along the coast on shores and borders of salt marshes; occasional in fields, waste places and along roadsides inland. June; fruit Aug.—Sept. Naturalized from Europe.

Widely cultivated for its young shoots.

### CLINTONIA Raf.

#### **Clintonia borealis** (Ait.) Raf. (northern).

Clintonia. Yellow Clintonia.

Rich often swampy woods. Frequent or common in the extreme northwestern part of the state; becoming occasional or rare southward and eastward, reaching Kent (C. K. Averill, E. H. Austin, Eames), Bristol (W. A. Terry), East Hartford and Manchester (A. W. Driggs), Cromwell (F. K. Hallock), Mansfield (Mrs. C. S. Phelps), Hampton (Weatherby), Union (Bissell), Voluntown (Graves). May—early June.

### SMILACINA Desf. False Solomon's Seal.

#### **Smilacina racemosa** (L.) Desf. (racemose).

*Vagnera racemosa* Morong.

Wild Spikenard. False Spikenard.

Frequent to common. Rich usually rocky woods, thickets and borders of fields. Mid-May—June; fruit Sept.—Oct.

The root is medicinal.

#### **Smilacina stellata** (L.) Desf. (star-shaped).

*Vagnera stellata* Morong.

Star-flowered Solomon's Seal.

Occasional near the coast in dry or moist, usually sandy ground; rare or local inland on river banks, in swamps or even in dry rocky ground. Mid-May—June.

**Smilacina trifolia** (L.) Desf. (three-leaved).*Vagnera trifolia* Morong.

Three-leaved Solomon's Seal.

Rare or local. Cool sphagnum bogs: Cromwell (Andrews & Bissell), East Hartford (H. S. Clark), Bristol (J. N. Bishop), Colebrook (J. W. Robbins), Norfolk (Miss M. C. Seymour), Salisbury (Bissell). May—June.

**MAIANTHEMUM** Wiggers.**Maianthemum canadense** Desf.*Unifolium canadense* Greene.

Wild Lily of the Valley. Two-leaved Solomon's Seal.

Common. Moist or dry woods and thickets. Mid-May—June.

**STREPTOPUS** Michx. Twisted-stalk.**Streptopus amplexifolius** (L.) DC. (having leaves which clasp the stem).

Liver Berry.

Rare or local. Rich moist woods: Salisbury (Bissell, Mrs. C. S. Phelps). May.

**Streptopus roseus** Michx. (rose-colored).

Liver Berry.

Rich woods, often among rocks. Occasional in the north-western part of the state, becoming local or rare eastward and southward, reaching Somers (Bissell), East Haddam (Dr. E. J. Thompson, Graves), Hamden (D. C. Eaton, Harger), Monroe (Harger). May.

**POLYGONATUM** Hill. Solomon's Seal.**Polygonatum biflorum** (Walt.) Ell. (two-flowered).*Salomonias biflora* Farwell.

Small or Hairy Solomon's Seal.

Frequent. Woods and thickets. May—June.

The rootstock is medicinal.

**Polygonatum commutatum** (R. & S.) Dietrich (variable).*Polygonatum giganteum* Dietrich (?).*Salomonias commutata* Farwell.

Great, Giant or Smooth Solomon's Seal.

Occasional to frequent. Usually in meadows and alluvial soil near the larger streams; sometimes in rich or dry woods and thickets or on sandy banks. May—June.

The rootstock is medicinal.

**CONVALLARIA L.** Lily of the Valley.

**Convallaria majalis L.** (blooming in May).

Lily of the Valley.

Rare. Escaped from cultivation to roadsides, thickets and waste places: New Haven, at East Rock (H. M. Denslow et al.), Southington (Andrews), Oxford (Harger), Stratford (Eames). May. In Connecticut adventive from Europe.

The rootstock and roots are medicinal and are official.

**MEDEOLA L.** Indian Cucumber-root.

**Medeola virginiana L.**

Indian Cucumber-root.

Rich woods. Occasional in most parts of the state, becoming common in southwestern Connecticut. May—June.

The rootstock is edible, somewhat resembling cucumber in flavor.

**TRILLIUM L.** Wake Robin. Birthroot.

**Trillium erectum L.** (erect).

Purple or Red Trillium. Birthroot. Red Benjamin.

Rich and often rocky woods. Rare or occasional in southeastern Connecticut, becoming frequent northward and westward, and common in the southwestern part of the state. Mid-April—May.

Both white-flowered and yellow-flowered forms are occasionally found. The flowers exhale a very disagreeable odor.

**Trillium grandiflorum** (Michx.) Salisb. (large-flowered).

Large-flowered White Trillium.

Rare. Weston, in rocky rich woods (Mrs. Mabel Osgood Wright). May.

**Trillium cernuum L.** (nodding).

Nodding Trillium. White Trillium.

Rich moist woods. Occasional in southeastern and southwestern Connecticut, apparently rare elsewhere. May.

**Trillium undulatum** Willd. (wavy).*Trillium erythrocarpum* Michx.

Painted Trillium.

Rich woods and shaded swamps. Occasional in the north-western part of the state, becoming local or rare eastward and southward, extending to Union (Bissell, Graves), Middletown (M. Hitchcock), New Haven (E. P. Prudden), Oxford (Harger). May.

**ALETRIS** L. Colic-root. Star Grass.**Aletris farinosa** L. (mealy).

Colic-root. Star Grass. False Unicorn-root.

Occasional or local. Fields and meadows, or moist sandy places. Late June—July.

The rootstock is medicinal.

**SMILAX** L. Green Brier. Cat Brier.**Smilax herbacea** L. (herbaceous).

Carrion-flower. Jacob's Ladder.

Frequent. Low thickets, borders of meadows and sometimes in drier fields. Late May—June.

The flowers exhale a most offensive odor. The herb is somewhat medicinal. The young shoots are sometimes used as a pot-herb and are called Wild Asparagus.

**Smilax rotundifolia** L. (round-leaved).

Common Green Brier. Horse, Cat, Bull or Squirrel Brier.

Common. Moist or dry woods, thickets and pastures. Late May—June; fruit Sept., persisting over the winter.

**Smilax glauca** Walt. (glaucous).

Saw, Cat or Squirrel Brier.

Common. Dry or moist open woods and thickets, often in sandy ground. June; fruit Sept., persisting over the winter.

The roots have been substituted for those of the Brazilian Sarsaparilla.

**Smilax hispida** Muhl. (rough-hairy).

Rare. Fairfield, in moist thickets (Eames). June.

## HAEMODORACEAE. BLOODWORT FAMILY.

## LACHNANTHES Ell. Red-root.

**Lachnanthes tinctoria** (Walt.) Ell. (used for dyeing).

*Gyrotheca capitata* Morong.

*Gyrotheca tinctoria* Salisb.

Red-root.

Rare. Open boggy meadows and sandy shores of ponds: East Lyme, several localities (Miss A. M. Ryon & Graves), Madison (W. R. Dudley). Aug.—Sept.

## DIOSCOREACEAE. YAM FAMILY.

## DIOSCOREA L. Yam.

**Dioscorea villosa** L. (hairy).

Wild Yam or Yam-root. Colic-root. Rheumatism-root.

Moist thickets. Frequent along and near the coast and in the valley of the Connecticut River; occasional or rare elsewhere. June—July; fruit Sept.—Oct.

The rootstock is medicinal.

## AMARYLLIDACEAE. AMARYLLIS FAMILY.

## NARCISSUS L.

**Narcissus Pseudo-Narcissus** L. (false Narcissus).

Daffodil.

Rare. Escaped from cultivation to fields and roadsides at East Windsor (Bissell), and at several localities in the southwestern part of the state (Eames). May. Native of Europe.

**Narcissus poeticus** L. (of poets).

Poet's Narcissus.

Rare. Waste grounds and near old dwellings as an escape from gardens, persistent but not inclined to spread: Oxford (Harger), Fairfield (Eames). May. Native of Europe.

Sometimes occurs in the double-flowered form.

## LEUCOJUM L.

**Leucojum aestivum** L. (of summer).

Summer Snowflake.

Rare. Fairfield, escaped from cultivation to waste grounds in rich moist soil (Eames). Mid-May—mid-June. Adventive from Europe.



**HYPOXIS L.** Star Grass.**Hypoxis hirsuta** (L.) Coville (hairy).*Hypoxis erecta* L.

Yellow-eyed Grass. Star Grass.

Common. Dry or moist, open or shaded ground. May—Oct.

## IRIDACEAE. IRIS FAMILY.

**IRIS L.** Fleur-de-lis.**Iris versicolor** L. (of various colors).

Larger Blue or Poison Flag. Fleur-de-lis. Iris. Vegetable Mercury.

Common. Swamps and wet meadows. Mid-May—July.

The rhizome and roots are poisonous and medicinal and are officinal. There have been cases of serious poisoning due to mistaking the roots for those of Sweet Flag.

**Iris prismatica** Pursh (prism-shaped).

Slender Blue Flag.

Frequent on and near the coast in swamps, meadows and borders of salt marshes; rarely seen farther inland. June—mid-July.

**Iris pseudacorus** L. (false Acorus).

Yellow Iris.

Rare. Escaped from gardens to marshes and low grounds: Norwich (Mrs. E. E. Rogers), Madison (Miss Roberts), East Haddam (Dr. E. J. Thompson), Stratford (Mrs. R. H. Russell), Fairfield (Eames). Mid-May—June. Adventive from Europe.

**Iris orientalis** Mill. (of the Orient).Rare. Escaped from cultivation to marshes: Stratford, many plants growing with *Iris pseudacorus* (Mrs. R. H. Russell). Late May—June. Adventive from Asia.**Iris germanica** L.

Fleur-de-lis.

Rare. Escaped from gardens to roadsides and fence-rows: Oxford (Harger), Fairfield (Eames). May—June. Adventive from Europe.

**BELAMCANDA** Adans. Blackberry Lily.**Belamcanda chinensis** (L.) DC.*Gemmingia chinensis* Kuntze.

Blackberry Lily. Leopard Flower.

Escaped from cultivation to roadsides and waste places, more often in rocky ground. Frequent in the southwestern part of the state, becoming occasional or rare northward and eastward, reaching Danbury (Miss G. L. Northrop), Sharon and Portland (Dr. E. J. Thompson), Berlin (Andrews & Bissell), East Lyme (F. H. Dart), Norwich (Mrs. E. E. Rogers). July — Aug.; fruit Sept. — Nov. Adventive from Asia.

**SISYRINCHIUM** L. Blue-eyed Grass.**Sisyrinchium albidum** Raf. (whitish).

Rare. New London, one plant in a dry field (Miss E. Coit, 1889). May. Fugitive from the western United States.

**Sisyrinchium mucronatum** Michx. (having an abrupt, short point).

Meadows and woods, usually in rather dry ground. Occasional in the northwestern part of the state, becoming rare southward and eastward, reaching Newtown (Eames), Oxford (Harger), Plainville and Glastonbury (Bissell). Mid-May — June.

**Sisyrinchium angustifolium** Mill. (narrow-leaved).

Dry or moist fields. Occasional in the southwestern part of the state; frequent or common elsewhere. Mid-May — June.

Forms intermediate between *Sisyrinchium angustifolium* and *Sisyrinchium gramineum* occur at New London, Groton and Ledyard (Graves), and have been called *Sisyrinchium intermedium* Bicknell.

**Sisyrinchium gramineum** Curtis (grass-like).*Sisyrinchium anceps* of Gray's Manual ed. 6.*Sisyrinchium graminoides* Bicknell.

Frequent or common. Fields, meadows, thickets and woods, generally in moist ground. June.

**Sisyrinchium atlanticum** Bicknell.

Fields, meadows and borders of salt marshes. Common on and near the coast; occasional or local inland. June.

Rarely occurs with white flowers.

## ORCHIDACEAE. ORCHIS FAMILY.

**CYPRIPEDIUM** L. Lady's Slipper. Moccasin Flower.**Cypripedium parviflorum** Salisb. (small-flowered).

Smaller Yellow Lady's Slipper.

Rare or occasional. Dry sandy or rocky woods. May—June.

The rootstock and roots are medicinal and are official. As in the following variety, contact with this plant poisons the skin of some people, the glandular hairs containing an irritant oil.

**Cypripedium parviflorum** Salisb., var. **pubescens** (Willd.)

Knight (downy).

*Cypripedium pubescens* Willd.

*Cypripedium hirsutum* of authors, not Mill.

Large Yellow Lady's Slipper. Yellow Moccasin Flower. American Valerian.

Rocky woods and cold swamps. Rare in the eastern part of the state and near the coast, becoming occasional or frequent northward and westward. May—June.

The rootstock and roots are medicinal and are official.

**Cypripedium hirsutum** Mill. (hairy).

*Cypripedium spectabile* Salisb.

*Cypripedium reginae* Walt.

Showy Lady's Slipper.

Rare or local. Swamps or wet meadows: Willington (Mrs. C. S. Phelps), Milford (Eames), Norfolk (Miss M. C. Seymour), Danbury (H. C. Ryder), Cornwall (E. E. Brewster), Salisbury (Mrs. C. S. Phelps). June.

**Cypripedium acaule** Ait. (stemless).

Stemless, Pink or Wild Lady's Slipper. Whip-poor-will's Shoe. Wild Valerian.

Frequent. Dry open sandy or rocky woods, often under evergreen trees. May—June.

## ORCHIS L.

**Orchis spectabilis** L. (showy).*Galeorchis spectabilis* Rydb.

Showy Orchis.

Rich woods, generally in leaf-mold. Rare near the coast; occasional or local inland. May — early June.

**HABENARIA** Willd. Rein Orchis. Fringed Orchis.**Habenaria bracteata** (Willd.) R. Br. (having bracts).*Coeloglossum bracteatum* Parl.

Long-bracted Orchis.

Rare or local. Dry or rocky woods: Killingly (C. H. Knowlton), Somers (Bissell), Middletown (M. Hitchcock), Berlin (Andrews), Meriden (Harger, Andrews), Southington (Andrews, Bissell), New Haven and Hamden (Eaton Herb.), Granby and Simsbury (I. Holcomb), New Milford (E. H. Austin), Kent (C. K. Averill), Salisbury (Mrs. C. S. Phelps). Late May — June.

**Habenaria flava** (L.) Gray (yellow).*Habenaria virescens* Spreng.*Perularia flava* Farwell.

Small Pale Green Orchis.

Occasional or frequent. Low meadows and open swamps. June — July.

**Habenaria hyperborea** (L.) R. Br. (northern).*Linnorchis hyperborea* Rydb.*Linnorchis huronensis* Rydb.

Tall Leafy Green Orchis.

Rich woods and wooded swamps. Rare in most districts: Bolton (Weatherby), New Britain (Bissell), Plainville (J. N. Bishop), Southington (Bissell, Andrews). Becoming occasional or local in Litchfield County. Late June — early Aug.

**Habenaria dilatata** (Pursh) Gray (expanded).*Linnorchis dilatata* Rydb.

Tall White Bog Orchis.

Rare. Wet meadows or sphagnum bogs: Plainville (Andrews), Norfolk (J. H. Barbour, Miss M. C. Seymour). June — July.

**Habenaria clavellata** (Michx.) Spreng. (shaped like a little club).

*Habenaria tridentata* Hook.

*Gymnadeniopsis clavellata* Rydb.

Small Green Wood Orchis.

Occasional or frequent. Bogs and wet woods. July — Aug.

**Habenaria Hookeri** Torr.

*Habenaria Hookeri* Torr., var. *oblongifolia* Paine.

*Lysias Hookeriana* Rydb.

Rich woods. Rare near the coast, becoming occasional or local northward. June.

**Habenaria orbiculata** (Pursh) Torr. (disk-shaped).

*Lysias orbiculata* Rydb.

Large Round-leaved Orchis.

Rare. In woods: South Windsor (S. P. Elmore), Windsor (H. S. Clark), Norfolk (Miss M. C. Seymour), Salisbury (Mrs. C. S. Phelps & Weatherby). June.

**Habenaria macrophylla** Goldie (large-leaved).

Rare. Norfolk, in pine woods (J. H. Barbour). June — July.

**Habenaria ciliaris** (L.) R. Br. (fringed).

*Blephariglottis ciliaris* Rydb.

Yellow Fringed Orchis.

Meadows, swamps, dry fields, thickets and open woods along the coast. Occasional or frequent eastward, becoming rare or local westward. Not certainly known farther inland than Monroe (H. C. Beardslee). Mid-July — Aug.

**Habenaria blephariglottis** (Willd.) Torr. (eyelid-tongued: i. e., having a fringed lip).

*Blephariglottis blephariglottis* Rydb.

White Fringed Orchis.

Rare. Sphagnum bogs: Cromwell (Dr. E. J. Thompson), Bethany and Middlebury (Harger), Colebrook (J. W. Robbins), Norfolk (Miss M. C. Seymour). Aug.

**Habenaria lacera** (Michx.) R. Br. (torn).*Blephariglottis lacera* Rydb.

Ragged or Ragged Fringed Orchis.

Occasional. Fields, meadows and open or wooded swamps.  
July — mid-Aug.**Habenaria psycodes** (L.) Sw. (butterfly-like).*Blephariglottis psycodes* Rydb.

Smaller Purple Fringed Orchis.

Occasional. Bogs, wet meadows and open swamps. Late  
June — Aug.**Habenaria fimbriata** (Ait.) R. Br. (fringed).*Habenaria grandiflora* Torr.*Blephariglottis grandiflora* Rydb.

Large Purple Fringed Orchis.

Rare or occasional. Swamps and wet woods. Mid-June —  
July.This species usually blooms several weeks earlier than  
*Habenaria psycodes*.**POGONIA** Juss.**Pogonia ophioglossoides** (L.) Ker (like *Ophioglossum*, the  
Adder's Tongue).

Rose Pogonia. Snake or Adder's Mouth.

Occasional or frequent. Bogs and wet meadows. June —  
July.Rarely occurs with white flowers. The flowers are fra-  
grant.**Pogonia trianthophora** (Sw.) BSP. (bearing three flowers).*Pogonia pendula* Lindl.*Triphora trianthophora* Rydb.

Nodding Pogonia.

Rare or local. Rich woods, usually in leaf-mold: Norwich  
(Miss M. P. Gilman, W. A. Setchell), Franklin (W. A. Set-  
chell), Granby (I. Holcomb), Southington (Miss F. S. Walk-  
ley), Salisbury (Mrs. C. G. Beardslee & Mrs. C. S. Phelps).  
Aug.

**Pogonia verticillata** (Willd.) Nutt. (whorled).*Isotria verticillata* Raf.

Whorled Pogonia.

Rare or occasional. Rich woods. Mid-May — early June.

**Pogonia affinis** Austin (allied).*Isotria affinis* Rydb.

Smaller Whorled Pogonia.

Rare. Rich woods: New Haven (E. S. Dana), Stratford (C. K. Averill, Eames). Mid-May — mid-June.

**CALOPOGON** R. Br.**Calopogon pulchellus** (Sw.) R. Br. (pretty).*Limodorum tuberosum* of American authors, not L.

Grass Pink. Calopogon.

Occasional or frequent. Bogs and low meadows. June — July.

The flowers are rarely pure white.

**ARETHUSA** L.**Arethusa bulbosa** L. (bulbous).

Arethusa.

Rare or local. Sphagnum bogs and wet meadows. Late May — June.

**SPIRANTHES** Richard. Ladies' Tresses.**Spiranthes Beckii** Lindl.*Spiranthes simplex* Gray.*Gyrostachys simplex* Kuntze.

Rare or local. Dry, sandy fields and sterile pastures. Aug. — Sept.

**Spiranthes gracilis** (Bigel.) Beck (slender).*Gyrostachys gracilis* Kuntze.

Frequent. Fields, meadows and open woods, in both moist and dry ground. Aug. — Sept.

**Spiranthes vernalis** Engelm. & Gray (vernal).*Spiranthes praecox* Gray's Manual ed. 6 in part.*Gyrostachys praecox* Kuntze.*Gyrostachys linearis* Rydb.

Fields and meadows, usually in dry soil. Occasional to frequent near the coast, becoming rare inland. Aug.—Sept.

**Spiranthes lucida** (H. H. Eaton) Ames (shining).

*Spiranthes latifolia* Torr.

*Gyrostachys plantaginea* Britton.

Rare or local. Moist river banks: Lyme (Mrs. E. E. Rogers), Cromwell (F. K. Hallock), Windsor (H. S. Clark), and along the Housatonic River from Oxford (Harger), northward to the state line. Late May—June.

**Spiranthes cernua** (L.) Richard (nodding).

*Gyrostachys cernua* Kuntze.

Frequent. Bogs, meadows and open swamps, or sometimes in drier places. Sept.—Oct.

The var. **OCHROLEUCA** (Rydb.) Ames (buff-colored), *Gyrostachys ochroleuca* Rydb., occurs at Norfolk (Bissell), Salisbury (Mrs. C. S. Phelps).

Sometimes very fragrant.

**Spiranthes Romanzoffiana** Cham.

*Gyrostachys stricta* Rydb.

Rare. Sphagnum bog: Norfolk (J. H. Barbour). July.

**EPIPACTIS** Boehm. Rattlesnake Plantain.

**Epipactis repens** (L.) Crantz (creeping), var. **ophioides** (Fernald) A. A. Eaton (snake-like).

*Peramium ophioides* Rydb.

*Goodyera repens* Gray's Manual ed. 6 in part.

*Peramium repens* Britton & Brown's Ill. Flora in part.

Lesser Rattlesnake Plantain. Squirrel-ear.

Rare. Rocky woods under evergreens: Southington (J. Shepard), Norfolk (Miss M. C. Seymour). Aug.

**Epipactis tessellata** (Lodd.) A. A. Eaton (checkered).

*Goodyera tessellata* Lodd.

*Peramium tessellatum* Rydb.

Rattlesnake Plantain.

Rare or local. Rich woods in the northern part of the state, mostly under evergreens: Union and Granby (Bissell), Enfield (Andrews & Bissell), Manchester and South Windsor



(A. W. Driggs), East Hartford (Weatherby), Bristol (J. N. Bishop), Norfolk (Miss M. C. Seymour), Salisbury (Mrs. C. S. Phelps). Aug.—Sept.

**Epipactis pubescens** (Willd.) A. A. Eaton (downy).

*Goodyera pubescens* R. Br.

*Peramium pubescens* MacMill.

Net-leaf or Downy Rattlesnake Plantain. Scrofula-weed.

Frequent. Rich woods in either dry or moist ground. Aug.

All our species of this genus are considered medicinal, the whole plant being used.

**CORALLORRHIZA** Chatelain. Coral Root.

**Corallorrhiza trifida** Chatelain (three-cleft).

*Corallorrhiza innata* R. Br.

*Corallorrhiza Corallorrhiza* Karst.

Early Coral Root.

Rare. Cold swamps or wet pine woods: Waterford (Graves), Norwich (Mrs. E. E. Rogers), Manchester (A. W. Driggs), Cromwell (F. K. Hallock), Windsor (Weatherby), Plainville (J. N. Bishop), Oxford (Harger), Winchester (Andrews & Harger), Barkhamsted (C. S. Phelps), Cornwall (E. E. Brewster), Salisbury (Mrs. C. S. Phelps). May—June.

All the species of this genus are parasitic upon other plants and are destitute of green parts.

**Corallorrhiza maculata** Raf. (spotted).

*Corallorrhiza multiflora* Nutt.

*Corallorrhiza multiflora* Nutt., var. *flavida* Peck.

Large Coral Root.

Occasional to frequent. Rich woods, usually in leaf-mold. July—Sept. The form with yellow flowers occurs at Plainville (H. S. Clark), and Salisbury (Mrs. C. S. Phelps).

**Corallorrhiza odontorrhiza** Nutt. (having a toothed root).

Coral Root. Crawley Root. Dragon's Claw. Chicken-toes.

Rich woods either moist or dry. Occasional in southern Connecticut, becoming rare in northern districts. Mid-Aug.—Oct.

The rootstock is medicinal.

**MICROSTYLIS** Eaton. Adder's Mouth.\* **Microstylis monophyllos** (L.) Lindl. (single-leaved).*Achroanthes monophylla* Greene.

White Adder's Mouth.

Rare. Wet mossy woods: Salisbury (Mrs. C. S. Phelps, H. S. Clark &amp; Bissell). June.

**Microstylis unifolia** (Michx.) BSP. (single-leaved).*Microstylis ophioglossoides* Eaton.*Achroanthes unifolia* Raf.

Green Adder's Mouth.

Rare. Rich woods either moist or dry: Norwich (W. A. Setchell, Mrs. E. E. Rogers), Franklin (Graves), East Lyme (Miss A. M. Ryon), Union and Salisbury (Bissell), Bolton (A. W. Driggs &amp; Weatherby), Enfield and Meriden (Andrews &amp; Bissell), Berlin (T. S. Brandegee), Granby (I. Holcomb), New Haven (O. Harger), Oxford (Harger), Easton (Eames). July — Aug.

**LIPARIS** Richard. Twayblade.**Liparis liliifolia** (L.) Richard (lily-leaved).*Leptorchis liliifolia* Kuntze.

Large Twayblade.

Rare or occasional. Rich and moist or sometimes dry and rocky woods. June.

**Liparis Loeselii** (L.) Richard.*Leptorchis Loeselii* MacM.

Fen Orchis.

Rare or occasional. Bogs, moist woods and wet shaded banks. June — July.

**APLECTRUM** (Nutt.) Torr. Putty-root. Adam-and-Eve.**Aplectrum hyemale** (Muhl.) Torr. (lasting over the winter).*Aplectrum spicatum* BSP.

Putty-root. Adam-and-Eve.

Rare. Rich woods: Norwich (J. Trumbull), West Hartford (H. S. Clark, Miss A. Lorenz), Farmington (C. H. Pember), Granby (I. Holcomb), New Haven and Hamden

(Harger), Danbury (H. C. Ryder), Salisbury (Mrs. C. S. Phelps). June.

The root is medicinal.

## DICOTYLEDONEAE.

### PIPERACEAE. PEPPER FAMILY.

**SAURURUS** L. Lizard's Tail.

**Saururus cernuus** L. (nodding).

Lizard's Tail.

Shallow water of rivers, ponds and marshes. Preston, in the Shetucket River (W. A. Setchell, Graves), Franklin and Sprague (Graves), along the Housatonic River from the Sound northward as far as Oxford and Newtown (Harger, Eames), and occasional in the southwestern part of the state (Eames). July — Aug.

### SALICACEAE. WILLOW FAMILY.

**SALIX** L. Willow. Osier.

Shrubs and trees with light soft wood used to some extent for cabinet work and for fuel. Willow charcoal is considered one of the best for medicinal and pharmaceutical use and for making crayons and gunpowder.

Willows are propagated with the greatest ease from cuttings, and are extensively planted as ornamental and shade trees. They often serve also to drain wet grounds, which they do by transpiring great quantities of water.

In some parts of the country certain species are extensively grown for osiers to be used in basket making and wickerwork. The bark of most species of willow contains more or less of a very bitter principle called salicin, used in medicine.

**Salix nigra** Marsh. (black).

Black Willow.

Rare or occasional. Low grounds and borders of ponds and streams. May.

The var. **FALCATA** (Pursh) Torr. (scythe-shaped) is occasional to frequent in similar situations, being more plentiful than the typical form.

This species spreads rapidly along rivers by the rooting of broken twigs and branches. The bark and aments are medicinal.

**Salix pentandra** L. (having five stamens).

Bay-leaved or Laurel-leaved Willow.

Rare. Escaped from cultivation to roadsides: Lyme, near Hadlyme Ferry (Graves), Norfolk (Bissell). May. Adventive from Europe.

**Salix lucida** Muhl. (shining).

Shining Willow. Glossy Willow.

Occasional. Swamps and borders of ponds and streams. May.

**Salix serissima** (Bailey) Fernald (very late; referring to the time of flowering and fruiting).

Autumn Willow.

Open swamps and wet pastures. Rare or local and apparently confined to the northwestern part of the state: Norfolk (Bissell), Salisbury (M. L. Fernald, Bissell). May — early June; fruit Aug.— Sept.

**Salix fragilis** L. (brittle).

Crack Willow. Brittle Willow.

Rare or local. Waste grounds, moist roadsides and banks of streams as an escape from cultivation: East Windsor and West Hartford (Bissell), New Haven (W. H. Patton, Harger), Bridgeport (Eames). May. Naturalized from Europe.

Introduced into this country about 1850, when a company of promoters induced many farmers to plant this willow for hedges. Many of these old hedges now occur throughout the state.

**Salix alba** L. (white).

White Willow.

The typical form of this species has not been reported from Connecticut.

The var. *VITELLINA* (L.) Koch (egg-yellow) is occasional in moist ground, especially near ponds and streams. May. Naturalized from Europe.

A hybrid of this variety with *Salix fragilis* occurs rarely in the valley of the Connecticut River (Bissell).

Often planted for ornament.

**Salix babylonica** L.

Weeping Willow. Ring Willow.

Rare. River banks and roadsides, as an escape from cultivation: Lyme (Graves & Bissell), Southington (Andrews & Bissell), New Haven (Bissell), Stratford, Bridgeport and Fairfield (Eames). May. Adventive from Europe.

Formerly much planted for ornament, especially in cemeteries.

**Salix longifolia** Muhl. (long-leaved).

*Salix fluviatilis* of authors, not Nutt.

Sand Bar or River Bank Willow.

Local. Banks of the Connecticut River from Hartford southward: Hartford and Glastonbury (Bissell), Middletown (Dr. Barratt, Harger, Bissell), Lyme (Graves, Bissell & Andrews), Old Saybrook (Harger). May.

**Salix cordata** Muhl. (heart-shaped).

*Salix cordata* Muhl., var. *angustata* Anders.

Heart-leaved Willow.

Frequent or common. Wet ground. Late April — May; fruit Aug.

The var. MYRICOIDES (Muhl.) Carey (like Myrica, the Sweet Gale), *Salix acutidens* Rydb., occurs at Stratford (Eames).

**Salix pedicellaris** Pursh (borne on a stalk).

*Salix myrtilloides* of Gray's Manual ed. 6, not L.

Bog Willow.

Rare. In bogs: Stafford (Graves), East Granby (Weatherby), New Haven (D. C. Eaton, Harger), Norfolk (Bissell), Cornwall (E. E. Brewster). May.

**Salix discolor** Muhl. (parti-colored; referring to the leaves).

Glaucous Willow. Pussy Willow.

Common. Swamps and low places, or sometimes in rather dry ground. April.

The var. *ERIOCEPHALA* (Michx.) Anders. (woolly-headed), *Salix eriocephala* Michx., is occasional in the southwestern part of the state (Eames).

The var. *PRINOIDES* (Pursh) Anders. (like the Black Alder), *Salix prinoides* Pursh, is rare: Stratford, Trumbull and Bridgeport (Eames).

Hybrids of this species with *Salix rostrata* occur at Stafford (Graves & Bissell). Hybrids with *Salix humilis* are apparently occasional throughout.

**Salix humilis** Marsh. (low).

Prairie Willow.

Occasional to frequent. Sandy thickets either dry or moist. April — early May; fruit May.

A hybrid of this with *Salix sericea* occurs at Stafford (Graves & Bissell).

**Salix tristis** Ait. (dull-colored).

Dwarf Gray Willow.

Sand plains and dry open ground. Occasional to frequent in the eastern and north central parts of the state; rare elsewhere, as at New Haven (D. C. Eaton), Bridgeport (Eames), Oxford and Southbury (Harger). Mid-April — mid-May; fruit May.

**Salix sericea** Marsh. (silky).

Silky Willow.

Frequent. Near streams and ponds and in swamps. Mid-April — mid-May; fruit May — June.

**Salix rostrata** Richards. (beaked).

*Salix Bebbiana* Sarg.

Beaked Willow.

Frequent. Woods and thickets, in either moist or dry ground. Late April — May; fruit May — June.

**Salix candida** Flügge (shining white).

Hoary Willow. Sage Willow.

Local. Swamps in the northwestern part of the state: Norfolk and Cornwall (Bissell), Salisbury (M. L. Fernald). April; fruit May.

The var. *DENUDATA* Anders. (bared) occurs at Salisbury, near Twin Lakes (J. R. Churchill & Bissell).

**Salix purpurea** L. (purple).

Purple, Bitter, Rose or Whip-cord Willow.

Rare or local. Dry or wet open ground: Voluntown (Harger & Graves), New London (Graves), Hartford, many plants over a wide area (H. S. Clark & Bissell), Southington and Berlin (Andrews & Bissell), New Haven (Eaton Herb.), Seymour (Harger), Stafford and Winchester (Bissell), Salisbury (Mrs. C. S. Phelps & Bissell), Waterbury (A. E. Blewitt). April — May. Adventive from Europe.

Grown for basket rods.

**Salix incana** Schrank (hoary).

Gray or Lavender Willow.

Rare. Escaped from cultivation to a river bank at Hartford, a few plants only (H. S. Clark). April — May. Fugitive from Europe.

**POPULUS** L. Poplar. Aspen.

Rapidly growing trees with soft, light wood, of little value for timber, but an important source of wood-pulp and useful for fuel in parts of the country where other wood is scarce. The poplar of the lumberman is *Liriodendron Tulipifera*, the Tulip Tree.

**Populus alba** L. (white).

White or Silver-leaved Poplar. Abele. White-bark.

Occasional. Escaped from cultivation to roadsides and waste places. April — May. Naturalized from Europe.

Often planted as an ornamental or shade tree, and sometimes to stop sand-blows. The bark is medicinal.

**Populus tremuloides** Michx. (like *Populus tremula*, the European Aspen).

American or Quaking Aspen. Poplar. Popple. Quiver-leaf. Trembling or White Poplar. Aspen.

Frequent. Woods, thickets and roadsides, more often in dry ground. April — May.

One of the first trees to take possession of clearings. The bark is medicinal.

**Populus grandidentata** Michx. (large-toothed).

Large-toothed Aspen. Poplar. Popple.

Frequent. Moist or dry woods and clearings, more often in rocky ground. April — May.

**Populus heterophylla** L. (various-leaved).

Swamp or Downy Poplar.

Rare or local. Wooded swamps and borders of ponds: Salem and Montville (W. A. Setchell, H. C. Beardslee, Graves), Middletown (Graves, Bissell, Andrews), Branford and Southington (Bissell & Andrews), Guilford (G. H. Bartlett), East Haven and Southbury (Harger). May.

**Populus balsamifera** L. (balsam-bearing).

Balsam Poplar. Tacamahac.

Local. River banks, wet woods and roadsides, usually as an escape from cultivation: Southington (H. Whitney), Milford (Eames & C. C. Godfrey), Wilton (Eames & G. P. Ells), Sherman, New Milford and Kent (E. H. Austin, C. K. Averill). Apparently native at Norfolk (H. S. Clark & Bissell). April — May.

**Populus candicans** Ait. (white and shining).

*Populus balsamifera* L., var. *candicans* Gray.

Balm of Gilead.

Rare or occasional. Roadside thickets and fence-rows as an escape from cultivation. April — May. In Connecticut naturalized, probably from Asia.

Occasionally planted as a shade tree. The leaf-buds and bark are medicinal, the first named having been much used in former times as a household remedy.

**Populus deltoides** Marsh. (triangular; referring to the shape of the leaves).

*Populus monilifera* Ait.

Cottonwood. Necklace Poplar.

Borders of streams and in wet ground. Frequent in the valleys of the Connecticut, Farmington and Housatonic Rivers; rare or occasional elsewhere. April — May.

A strong, rapidly growing tree, often planted as a shade tree, and on the western prairies for wind-breaks.



**Populus nigra** L. (black).

Black Poplar.

Rare. Roadsides and river banks as an escape from cultivation: Preston and East Lyme (Graves). April—May. Adventive from Europe.

Has been more or less planted in this country as an ornamental tree for more than a hundred years. It grows more slowly than the Cottonwood.

The var. *ITALICA* Du Roi, *Populus dilatata* L., Lombardy Poplar, was formerly much planted for ornament and has rarely escaped to roadsides and river banks: Lyme (Graves & Bissell), East Windsor (Bissell), Southington (Andrews & Bissell), Berlin and Cheshire (Andrews), Newtown (Harger), Sherman (Eames).

The variety is a quick-growing tree of striking habit, but in this climate it is short-lived.

## MYRICACEAE. SWEET GALE FAMILY.

## MYRICA L.

**Myrica Gale** L. (classical name).

Sweet Gale. Dutch or Bog Myrtle. Golden Osier.

Swamps and borders of ponds and streams. Occasional or local in the northern part of the state, becoming rare southward; not reported from the vicinity of the coast. April.

The leaves and buds are aromatic and medicinal.

**Myrica carolinensis** Mill.

*Myrica cerifera* of Gray's Manual ed. 6, in great part.

Bayberry. Candlewood. Waxberry. Wax Myrtle.

Frequent or common. Dry fields and pastures, sand plains and sea shores. Late May—June; fruit Sept., persisting through the winter.

The berries yield a wax or tallow, somewhat used for making candles which burn with a faintly aromatic odor. One bushel of berries is said to yield four lbs. of wax. The leaves and the bark of the roots are somewhat medicinal.

**Myrica asplenifolia** L. (having leaves like *Asplenium*, the Spleenwort).

*Comptonia peregrina* Coulter.

Sweet Fern.

Common. Dry or sterile ground. May; fruit July — Aug.

The leaves and the tops have some reputation for medicinal properties.

## JUGLANDACEAE. WALNUT FAMILY.

### JUGLANS L. Walnut.

#### *Juglans cinerea* L. (ashy).

Butternut. White Walnut. Oil Nut.

Frequent. Roadsides and rocky woods, generally in dry ground. May; fruit Oct.

The nuts are edible and are much gathered. The husks were formerly used in dyeing cloth yellow. The bark is sometimes used in tanning, and sugar can be obtained from the sap. The wood is employed in the interior finish of houses and for furniture. The bark of the root is medicinal and is official.

#### *Juglans nigra* L. (black).

Black Walnut.

Rare. Roadsides and rocky hillsides, in most localities derived from planted trees: Norwich (Mrs. E. E. Rogers), East Hartford (H. S. Clark), Newington (Bissell), Southington (Andrews & Bissell), Seymour and Southbury (Harger), Trumbull and Easton (Eames). Probably native at North Canaan (Bissell). May; fruit Oct. For the most part adventive from the West.

The nuts are edible. The wood is valued for cabinet work, for the interior finish of houses, for gunstocks and in ship-building.

### CARYA Nutt. Hickory.

A very important group of trees on account of the value of their timber and nuts. Hickory wood has great strength combined with elasticity and is extensively used in the manufacture of carriages, wagons and farming implements; also for axe, pick and other tool handles. When exposed to the weather, however, it should be painted, as otherwise it is liable to quick decay.

#### *Carya ovata* (Mill.) K. Koch (egg-shaped).

*Carya alba* Nutt.

*Hicoria ovata* Britton.

Shag-bark or Shell-bark Hickory. Walnut.

Frequent or common. Woods and fields, in either moist or dry ground. Late May — early June; fruit Oct.

The most valuable of our native nut trees both for its timber and its fruit. The nut is the common Hickory Nut of the markets.

**Carya alba** (L.) K. Koch (white).

*Carya tomentosa* Nutt.

*Hicoria alba* Britton.

Mocker Nut. White-heart Hickory.

Occasional or frequent. Rocky woods and pastures, mostly in dry ground. Early June; fruit Oct.

The timber is nearly equal to that of the Shag-bark Hickory, the nuts not as good.

**Carya microcarpa** Nutt. (small-fruited).

*Hicoria microcarpa* Britton.

Small-fruited Hickory. Little Pignut Hickory.

Rocky woods and hillsides in either dry or moist ground. Occasional or frequent along or near the coast, apparently not extending far inland. Late May — early June; fruit Oct.

The nuts are usually bitter. The open or half-open husks often hang on the tree through the following summer.

**Carya glabra** (Mill.) Spach (smooth).

*Carya porcina* Nutt.

*Hicoria glabra* Britton.

Pignut or Broom Hickory. Pignut.

Occasional or frequent. Rocky woods and hillside pastures. Late May — early June; fruit Oct.

The nuts, usually bitter though sometimes sweet, are of little value. The timber is equal in value to that of the Shag-bark Hickory.

**Carya cordiformis** (Wang.) K. Koch (heart-shaped).

*Carya amara* Nutt.

*Hicoria minima* Britton.

Bitter Nut or Swamp Hickory.

Occasional. Wet woods and banks of streams. Late May — June; fruit Oct.

Nuts very bitter, inedible.

## BETULACEAE. BIRCH FAMILY.

## CORYLUS L. Hazelnut. Filbert.

**Corylus americana** Walt.

Hazelnut or Wild Hazelnut. Hazel.

Frequent or common. Woods, thickets, pastures and roadsides, mostly in dry ground. March — April; fruit Sept.

The nuts of this and the following species are well flavored and edible and are gathered to some extent.

**Corylus rostrata** Ait. (beaked).

Beaked Hazelnut. Filbert.

Woods, thickets and hillside pastures in dry ground. Rare on or near the coast, occasional elsewhere. April; fruit Sept.

## OSTRYA Scop. Hop Hornbeam. Ironwood.

**Ostrya virginiana** (Mill.) K. Koch.

*Ostrya virginica* Willd.

American Hop Hornbeam. Leverwood. Ironwood. Deerwood.

Frequent. Rocky woods and thickets. May; fruit July — Aug.

The wood is hard and exceedingly tough, used for handles of tools, mallets and other small articles. The bark is medicinal.

## CARPINUS L. Hornbeam. Ironwood.

**Carpinus caroliniana** Walt.

American Hornbeam. Blue or Water Beech.

Frequent or common. Woods, thickets and banks of streams. May; fruit July — Aug.

The wood is close-grained and hard, of value for tool handles, etc.

## BETULA L. Birch.

The birches, while not as a rule good timber trees, are yet of great use to man. The wood is generally light in color and weight, but tough and well suited for the making of many small articles. It is also good fuel and makes excellent charcoal.

**Betula lenta** L. (tough).

Cherry, Sweet or Black Birch.

Frequent or common. Woods, in either dry rocky or rich moist ground. May; fruit Oct.

The wood is extensively used in cabinet work. It also yields an oil which is practically identical with the oil of wintergreen, is of much medicinal value and is officinal. A beer is made from the fermented sap.

**Betula lutea** Michx. f. (yellow).

Yellow or Gray Birch.

Occasional or frequent. Rich or rocky woods and in swamps. May; fruit Oct.

A handsome tree furnishing timber of considerable value, used in cabinet work, for boxes, etc.

**Betula populifolia** Marsh. (poplar-leaved).

White, Gray or Old Field Birch.

Common. Woods, clearings, pastures and roadsides, mostly in dry sterile ground. May; fruit Sept.— Oct.

Usually the first tree to take possession of abandoned fields. The wood is largely used in making spoons.

**Betula alba** L. (white). var. **papyrifera** (Marsh.) Spach (paper-bearing).

*Betula papyrifera* Marsh.

Paper, Canoe or White Birch.

Rich woods and rocky hillsides. Rare near the coast: Lyme (Graves), Huntington (Eames). Becoming occasional northward and frequent in Litchfield County. May; fruit Sept.

In northern countries the wood and bark of this species are put to the greatest variety of uses. The wood is made into furniture, dishes, spoons, bowls and other wooden ware, ox yokes, shoes, casks and hoops; the brushwood makes wicker fences, thatch and brooms; the bark is used for tanning; the North American Indians manufactured their canoes of it and employed it in many other ways; the sap of this and other species is sometimes made into a kind of wine; the leaves afford a yellow dye.

**Betula alba** L., var. *cordifolia* (Regel) Fernald (having heart-shaped leaves).

Paper, Canoe or White Birch.

Rare. Rocky hillsides: Union, at Bald Hill (Bissell, Graves), Goshen (Bissell). May; fruit Sept.

**Betula pumila** L. (dwarf).

Low or Swamp Birch.

Swamps and wet ground. Local and apparently confined to the northwestern part of the state: Cornwall (E. E. Brewster), Salisbury (Bissell). May; fruit Sept.

**ALNUS** Hill. Alder.

**Alnus incana** (L.) Moench (hoary).

Alder. Speckled or Hoary Alder.

Swamps and borders of streams. Local or occasional except in the southeastern part of the state where it is rare. April; fruit Sept.

The wood of this and the following species is a source of gunpowder charcoal, and is said to be valuable also because of its durability in water. The bark has medicinal properties.

**Alnus rugosa** (Du Roi) Spreng. (wrinkled).

*Alnus serrulata* Willd.

Alder. Smooth or Tag Alder.

Frequent or common. Swamps and borders of ponds and streams. March — April; fruit Sept.— Oct.

Intermediate forms occur that are apparently hybrids between this and the preceding species.

## FAGACEAE. BEECH FAMILY.

**FAGUS** L. Beech.

**Fagus grandifolia** Ehrh. (large-leaved).

*Fagus ferruginea* Ait.

*Fagus americana* Sweet.

Beech. American Beech.

Occasional or frequent. Woods and banks in either dry or moist ground. May; fruit Sept.— Oct.

Rarely matures perfect fruit here. The timber, hard and close-grained but rather brittle, is used sparingly for tool

handles. The wood is not durable in contact with the soil, but is remarkably lasting when immersed in water, hence is largely used in making dams, sluices, etc. The purest creosote for medicinal use is obtained from beech wood. A beautiful tree at all seasons of the year.

**CASTANEA** Hill. Chestnut.

**Castanea dentata** (Marsh.) Borkh. (toothed).

*Castanea sativa* Mill., var. *americana* Sarg.

Chestnut.

Common. Rich woods or often in drier ground. Late June — mid-July; fruit late Sept.— Oct.

The nuts are sweet and edible and are extensively gathered for market. The timber is of much value, very durable in contact with the soil, and used especially for poles, piling and railroad ties. One of our most abundant and valuable forest trees. The burs furnish a lampblack used in painting, and contain a dark brown dye. The bark and leaves are somewhat medicinal.

**QUERCUS** L. Oak.

A large genus of very valuable trees, whose timber and bark are among the most important products of the forest. Oak wood possesses in a high degree strength, solidity, durability and resistance to water, and is largely used in ship building and mill and bridge construction. In the making of furniture also and the interior finish of houses it is very extensively employed. The bark of many species is much used in tanning. Oak trees are famous for their picturesque beauty and dignity, and it is a pity that so few large old specimens are preserved. They are among the most valued trees on estates and country places; in fact any farm is enhanced in value by the possession of a few old oaks.

**Quercus alba** L. (white).

White Oak.

Common. Moist or dry ground and in various soils. Mid-May — June; fruit Sept.— Oct.

The most valuable of the oaks both for timber and for

tanning. The bark is rich in tannin, is of medicinal value and is officinal. The acorns are sometimes roasted and used as a substitute for coffee.

**Quercus stellata** Wang. (star-shaped).

*Quercus minor* Sarg.

Post Oak. Iron Oak.

Local. Usually in rocky ground on and near the coast: East Lyme and Old Lyme (Graves), Branford (Andrews), New Haven (C. K. Averill, Eames, Harger), Orange and Milford (C. K. Averill, Andrews, Bissell), and westward (Eames). Extending inland as far as Hamden, on Mt. Carmel (A. E. Blewitt), and Huntington, at 350 ft. elevation (Eames). May; fruit Oct.

The wood is very hard, heavy and strong. In Connecticut only a small tree.

**Quercus macrocarpa** Michx. (large-fruited).

Bur Oak. Over-cup or Mossy-cup Oak.

Rich soil in bottom lands or swampy places. Rare or local and confined to the northwestern part of the state: Canaan (J. H. Putnam & Bissell), Salisbury (Mrs. C. S. Phelps). May; fruit Sept.—Oct.

The wood is heavy and hard, similar to and often sold as that of the White Oak.

**Quercus bicolor** Willd. (two-colored).

*Quercus platanoides* Sudworth.

Swamp White Oak.

Frequent. Swamps and wet woods. May; fruit Sept.—Oct.

The wood is heavy and strong, furnishing a good quality of timber.

**Quercus Muhlenbergii** Engelm.

*Quercus acuminata* Houba.

Yellow Oak. Chestnut Oak.

Rare. Calcareous ridges in the northwestern part of the state: Canaan (C. K. Averill), Salisbury (Mrs. C. S. Phelps). Also along the Housatonic River in Kent (E. H. Austin & Eames), New Milford (C. K. Averill & E. H. Austin), and



bordering tide water in Milford (Eames). May; fruit Sept.—Oct.

The wood is very heavy, hard and durable.

**Quercus prinoides** Willd. (like *Quercus Prinus*, the Chestnut Oak).

Scrub Chestnut Oak. Chinquapin Oak.

Occasional or frequent. Dry woods, thickets and hillside pastures, and sometimes in open sandy ground. May; fruit Sept.—Oct.

**Quercus Prinus** L. (classical name for an evergreen oak).

Chestnut or Rock Chestnut Oak.

Rocky ridges and hillsides. Occasional near the coast; frequent or common elsewhere. May; fruit Sept.—Oct.

The wood is durable in contact with the soil, ranking among the oaks next to that of the White Oak for railroad ties. The bark is rich in tannin and is much used in tanning leather.

**Quercus rubra** L. (red).

Red or Champion Oak.

Frequent. Woods in all soils and various situations. May; fruit Sept.—Oct.

The timber of this species as well as that of *Quercus coccinea* and *Quercus velutina* is relatively poor, but is more used than formerly on account of the scarcity of better. The bark of all three species is used in tanning and also contains a dye.

**Quercus palustris** Muench. (of swamps).

Pin Oak. Swamp Spanish Oak.

Swamps and borders of ponds and streams. Common in the Connecticut River valley and near the coast in southwestern Connecticut; occasional or local elsewhere. May; fruit Sept.—Oct.

The timber is relatively of a poor quality. Grows more rapidly than most other species of oak and is often planted as a shade or ornamental tree.

**Quercus coccinea** Muench. (scarlet).

Scarlet Oak.

Frequent. Moist or dry woodlands. May; fruit Sept.—Oct.

The foliage takes a very brilliant color in autumn.

**Quercus velutina** Lam. (velvety).*Quercus coccinea* Muench., var. *tinctoria* A. DC.

Quercitron, Yellow-barked or Black Oak.

Occasional or frequent. Dry or gravelly uplands. May; fruit Sept.—Oct.

**Quercus ilicifolia** Wang. (holly-leaved).*Quercus nana* Sarg.

Bear or Black Scrub Oak.

Dry sandy or rocky sterile ground. Rare in the north-western part of the state; local, frequent or common elsewhere. May; fruit Sept.—Oct.

## URTICACEAE. NETTLE FAMILY.

## ULMUS L. Elm.

**Ulmus fulva** Michx. (tawny).

Slippery, Red, Rock, Sweet, Moose, Indian or Tawny Elm.

Rare to frequent. Dry or moist rocky woods and near streams. April, rarely earlier.

The wood is hard, strong, durable in contact with the soil; of value for wheel-stock, fence posts, etc., and sometimes preferred for ox-yokes. The inner bark is extensively used in medicine.

**Ulmus campestris** L. (of fields).

English or European Elm.

Rare. Escaped from cultivation to roadsides in Hamden, at Mt. Carmel (A. H. Graves), Oxford (Harger), and Salisbury (Mrs. C. S. Phelps), in horticultural forms. April—May. Adventive from Europe.

Sometimes planted as an ornamental tree.

**Ulmus americana** L.

American, White, Common, Water, Swamp, Shade, Weeping or Feathered Elm.

Common. Woods, fields, roadsides and along streams. April, rarely earlier.

The wood is hard, strong and tough; valued for wheel-stock, boats and ship building. One of our most beautiful trees and extensively planted for shade or ornament.

**Ulmus alata** Michx. (winged).

Wahoo, Winged or Witch Elm.

Rare. Spread from cultivation to roadsides and fence-rows: Old Lyme (H. S. Clark), Plainville (J. N. Bishop). May. Adventive from the South.

Often planted as a shade tree in the South.

**CELTIS** L. Hackberry. Nettle Tree.**Celtis occidentalis** L. (western).

Hackberry. Sugarberry. American Nettle Tree. False Elm. Hoop Ash.

Occasional to frequent. Dry or poor soils, especially in river valleys and along the coast. May; fruit Sept., and often persisting through the winter.

The var. *PUMILA* Muhl. (dwarf) is rare or occasional in the Housatonic River Valley in Kent, New Milford and Newtown (Eames), and Oxford (Harger, Eames).

A small tree of natural beauty, but the leaves and small branches are usually much galled by insects. The wood is soft, weak, elastic, and easily splits, and is of little value. The bark is medicinal. The fruit is edible.

**CANNABIS** L. Hemp.**Cannabis sativa** L. (sown).

Common Hemp.

Rare or occasional. Waste places throughout. July—Sept. Adventive or naturalized from Asia.

Grown in India, it is officinal as *Cannabis indica*, has very marked medicinal properties, and is the source of the intoxicant "hashish." Its fibre is one of the important textile products, valuable for coarse cloth, cordage, etc., and its seeds yield an oil used in paints, soap and culinary preparations.

**HUMULUS** L. Hop.**Humulus Lupulus** L. (from *Lupus*, its classical name).

Common Hop.

Occasional. River banks, woods and waste places, often as an escape from cultivation. July—Aug.; fruit Sept.

The strobiles are used in the manufacture of beer, ale and yeast; also in medicine and are officinal. A good arbor-plant.

**Humulus japonicus** Sieb. & Zucc.

Japanese Hop.

Rare. Escaped from cultivation into waste ground: New London (Graves), Hartford (H. S. Clark & Bissell), Bridgeport and Fairfield (Eames). Aug.—Sept. Adventive from Japan.

Recently introduced into cultivation and becoming popular as an arbor-plant.

**MACLURA** Nutt. Osage Orange. Bois d'Arc.

**Maclura pomifera** (Raf.) Schneider (pome-bearing).

*Maclura aurantiaca* Nutt.

*Toxylon pomiferum* Sarg.

Osage or Mock Orange or Apple. Bow-wood.

Rare. Escaped from cultivation into roadsides and neglected places: Waterford (Graves), East Haven (D. C. Eaton), Waterbury (A. E. Blewitt), Kent (C. K. Averill). June. Native of the Southwest.

The wood is durable in contact with the soil and is valued for fence posts. Formerly planted for hedges.

**BROUSSONETIA** L'Hér.**Broussonetia papyrifera** (L.) Vent. (paper-bearing).

Paper Mulberry.

Rare. Norwalk, spontaneous in waste land (Miss A. E. Carpenter). May—June. Native of Asia.

**MORUS** L. Mulberry.**Morus rubra** L. (red).

Red Mulberry.

Rare or occasional. Dry rocky woods, fields and fence-rows. May—June; fruit July.

The wood is rather soft, coarse-grained and tough, and is very durable in contact with the soil. The fresh fruit is mawkish to some palates, agreeable to others. Medicinal.

**Morus alba** L. (white).

White or Silkworm Mulberry.

Occasional. Escaped from cultivation to roadsides, fence-

rows and waste places. May—June; fruit late June—July. Naturalized from the Old World.

Early in the last century extensively planted to furnish food for silkworms, and many large old trees remain about farmhouses. Birds and poultry are so fond of the fruit that one or more of these trees, when properly situated, would tend to prevent the destruction of cultivated berries maturing during the same period.

**URTICA L.** Nettle.

**Urtica gracilis** Ait. (slender).

Slender or Tall Wild Nettle.

Frequent or common. Roadsides, fence-rows and waste places. June—Aug.

A troublesome weed, best exterminated by digging.

**Urtica Lyallii** Wats.

Waste places, roadsides and low ground along streams. Stafford (Graves & Bissell), Southington (Andrews), Newtown (Eames); and probably occurring throughout the state, as the species has been confused with *Urtica gracilis*. July—Aug.

**Urtica dioica** L. (dioecious).

Stinging or Great Nettle.

Rare. Waste places in rich soil: Guilford (G. H. Bartlett), Seymour (Harger), North Canaan (M. B. Tobey). June—Aug. Adventive from Europe.

The plant is medicinal.

**Urtica urens** L. (burning).

Small or Dwarf Nettle.

Rare. Waste places, cultivated ground and about farmyards: Groton and Lebanon (Graves), New London (D. C. Eaton), Southington (Andrews), Woodbridge (A. W. Evans). June—Aug. Adventive from Europe.

The plant is medicinal.

**LAPORTEA** Gaud. Wood Nettle.

**Laportea canadensis** (L.) Gaud.

*Urticastrum divaricatum* Kuntze.

Wood or Canada Nettle. Albany Hemp.

Occasional or frequent. Moist rich woods and partial shade. July — Aug.

**PILEA** Lindl. Richweed. Clearweed.

**Pilea pumila** (L.) Gray (dwarf).

*Adicea pumila* Raf.

Clearweed. Coolweed. Stingless Nettle.

Frequent. Moist rich woods and shaded places. Aug.—Sept.

An objectionable weed in lawns and about dwellings. The bruised plant is sometimes applied for the relief of inflammation and poisoning by species of *Rhus*.

**BOEHMERIA** Jacq. False Nettle.

**Boehmeria cylindrica** (L.) Sw. (cylindrical).

False Nettle.

Frequent. Moist rich woods and along streams. July — Aug.

**Boehmeria cylindrica** (L.) Sw., var. *scabra* Porter (rough).

Rare. Rich woods: Southington (Bissell), Bridgeport (I. Holden & Baker), Fairfield (Eames). July — Aug.

**PARIETARIA** L. Pellitory.

**Parietaria pennsylvanica** Muhl.

Pellitory.

Rare or local. Rich damp shaded soil about rocks and ledges. Seldom seen, though known to occur at wide intervals throughout the state. May — Sept.

## SANTALACEAE. SANDALWOOD FAMILY.

**COMANDRA** Nutt. Bastard Toad-flax.

**Comandra umbellata** (L.) Nutt. (umbellate).

Bastard Toad-flax.

Frequent. Dry woods, thickets and more open places. May — June.

## LORANTHACEAE. MISTLETOE FAMILY.

**ARCEUTHOBIUM** Bieb.

**Arceuthobium pusillum** Peck (very small).

*Razoumofskya pusilla* Kuntze.

Dwarf Mistletoe.

Rare or local. Parasitic on Black Spruce: Norfolk, at 1400 ft. elevation, and Salisbury, about Bingham Pond at an altitude of 1800 ft. (H. S. Clark & Bissell), Kent, about Spectacle Ponds, where at an altitude of 1,200 ft. it also occurs on Tamaracks (Eames & E. H. Austin). April — May; fruit Sept.

## ARISTOLOCHIACEAE. BIRTHWORT FAMILY.

**ASARUM L.** Asarabacca. Wild Ginger.

### **Asarum canadense L.**

Wild Ginger or Ginger-root. Sweet, False or Canada Colts-foot. Heart Snakeroot.

Rich rocky woods. Rare in the southeastern part of the state and near the coast, occasional to locally common elsewhere. Mid-April — May.

The var. *REFLEXUM* (Bicknell) Robinson (bent backward), *Asarum reflexum* Bicknell, and the var. *ACUMINATUM* Ashe (taper-pointed), *Asarum acuminatum* Bicknell, occur with the species or alone, the former in its most distinct condition in the southwestern part of the state.

Readily cultivated, and makes a pleasing ground covering in rich shaded places. The rhizome is used medicinally and an oil from it is used in perfumery.

**ARISTOLOCHIA L.** Birthwort.

### **Aristolochia Serpentaria L.** (pertaining to a serpent).

Snakeroot. Virginia or Fine Snakeroot.

Dry rocky woods. Rare or local over most of its range: East Lyme (Miss A. M. Ryon), East Haddam (Dr. E. J. Thompson, Graves), Haddam (D. C. Eaton), Meriden (W. A. Russell), Southington (C. D. Bishop), Naugatuck (J. Nichols), Oxford and Southbury (Harger), Newtown (Eames). Occasional toward the coast westward. Mid-June — July.

The aromatic roots are medicinal and are officinal.

## POLYGONACEAE. BUCKWHEAT FAMILY.

**RUMEX L.** Dock. Sorrel.

### **Rumex Patientia L.** (patience).

Patience or Spring Dock. Garden or Herb Patience.

Rare. Alluvial or waste ground: Lyme (Graves), Seymour (Harger). May—June. Adventive from Europe. Sometimes cultivated for spring greens.

**Rumex Britannica** L.

Great Water Dock. Horse Dock.

Occasional. Swamps, fresh and brackish marshes and shallow water along streams. July—Aug.

**Rumex crispus** L. (curled).

Curled, Curly, Yellow or Narrow Dock.

Common. Waste places, fields and meadows, especially in moist situations. June—July. Naturalized from Europe.

A troublesome weed in grasslands and grain fields. The leaves are often used as a pot-herb. The root is of value in medicine, and is in popular use as a blood purifier.

**Rumex elongatus** Guss. (lengthened).

Fields and waste ground. Southington (Andrews), and probably elsewhere, as the species has been confused with *Rumex crispus* and is presumed to occur occasionally with it. June—July. Adventive from Europe.

**Rumex mexicanus** Meisn.

*Rumex salicifolius* of Gray's Manual ed. 6, in part, not Weinm.

Rare. Waterbury, in waste ground (B. B. Bristol, A. E. Blewitt). July. Adventive or fugitive from the North or West.

**Rumex altissimus** Wood (tallest).

Tall, Pale or Peach-leaved Dock.

Rare. Waste ground: Plainfield (J. L. Sheldon), New London (Graves), Guilford (G. H. Bartlett), Farmington (A. W. Driggs), Waterbury (J. M. Richardson), Naugatuck (B. B. Bristol), Stratford (Mrs. R. H. Russell). July. In Connecticut probably adventive from the West.

**Rumex verticillatus** L. (whorled).

Swamp Dock.

Rare. Open low or swampy ground along the Connecticut River: Lyme (Graves), Haddam and East Hartford (Weath-



erby), Glastonbury (Bissell), Hartford (Harger, Bissell).  
June—July.

**Rumex obtusifolius** L. (blunt-leaved).

Bitter, Broad or Blunt-leaved Dock.

Common. Fields, waste places and about habitations.  
June—Aug. Naturalized from Europe.

The root is medicinal.

**Rumex Acetosa** L. (sour).

Sorrel or Belleville Dock. Cock, Garden or Meadow Sorrel.

Rare. In grassland: Norwich (Mrs. E. E. Rogers),  
Southington (Bissell, Andrews), Litchfield (W. Buell). May  
—June. Adventive from Europe.

Sometimes cultivated for spring greens.

**Rumex Acetosella** L. (diminutive of Acetosa).

Sheep, Red, Field, Common, House or Cow Sorrel. Sour  
Grass.

Common. Fields, waste places and cultivated ground,  
usually in poor neglected soil. April—June. Naturalized  
from Europe.

Often a troublesome weed, especially in lawns where it  
persists even when frequently cut. The leaves are eaten by  
children, but are poisonous when eaten freely. Sometimes  
used for spring greens. Medicinal.

**POLYGONUM** L. Knotweed.

**Polygonum exsertum** Small (protruding).

Rare. Salt and brackish marshes: East Haven (Harger,  
A. L. Winton), Orange (Bissell), Westport and Stamford  
(Eames & C. C. Godfrey). Fruit Sept.—Oct.

**Polygonum prolificum** (Small) Robinson (producing off-  
spring; fruitful).

*Polygonum ramosissimum* Michx., var. *prolificum* Small.

Occasional eastward and frequent or locally common west-  
ward in marshes and on shores along the coast; also occurs  
along a moist roadside in Litchfield (Bissell). Fruit Aug.—  
Oct.

**Polygonum aviculare** L. (pertaining to birds).

Doorweed. Knotweed. Wire, Goose, Way, Knot or Crab Grass. Bird's-tongue.

Common. Yards, waste places, roadsides and cultivated grounds. June — Oct.

A pernicious weed in lawns, often taking complete possession. The seeds are eaten by certain birds; the Chinese also extract a blue dye from the plant.

**Polygonum aviculare** L., var. **littorale** (Link) Koch (of the sea-shore).

*Polygonum littorale* Link.

Shore Knotweed.

Occasional on edges of salt marshes and on gravelly shores near the coast. July — Sept.

**Polygonum aviculare** L., var. **vegetum** Ledeb. (vigorous).

This variety has been collected at a few localities and doubtless occurs occasionally with the typical form. Its distribution is not known. July — Sept.

**Polygonum erectum** L. (erect).

Erect Knotweed or Goose Grass.

Frequent. Roadsides and waste places. July — Sept.

**Polygonum ramosissimum** Michx. (much-branched).

Bushy Knotweed.

Rare. Roadside in Ansonia, probably introduced from the West (Harger). Aug.—Oct. Native in the West.

The forma ATLANTICUM Robinson, our native representative of this species, is frequent about the borders of salt meadows and on tidal shores along the coast.

**Polygonum tenue** Michx. (slender).

Slender Knotweed.

Frequent. Dry sterile fields and open sandy or rocky places. July — Sept.

**Polygonum lapathifolium** L. (dock-leaved).

*Polygonum lapathifolium* L., var. *incarnatum* Wats.

*Polygonum incarnatum* of authors and (?) Ell.

Dock-leaved, Pale or Willow Persicaria.

Rare, local or occasional. Waste places and banks of

rivers and ponds throughout. July — Aug. Perhaps in part naturalized from Europe.

**Polygonum amphibium** L. (growing on land or in water equally well).

Water Persicaria.

Rare or local. Ponds and lakes: Preston (Graves), East Haven (D. C. Eaton, Eames), Milford (Harger), Southington (Andrews, Bissell), Norfolk (J. H. Barbour), Ridgefield and Kent (Eames), Salisbury (Mrs. C. S. Phelps & Bissell). Aug.— Sept.

The var. TERRESTRE Leers (terrestrial) occurs rarely on borders of ponds.

The var. HARTWRIGHTII (Gray) Bissell, *Polygonum Hartwrightii* Gray, is rare or local on borders of ponds: Preston and Griswold (Graves), Southington (Andrews & Bissell), Norfolk (J. H. Barbour), Salisbury (Bissell).

This species is remarkably variable according to the conditions under which it grows. Intergrading forms connect the typical form with the varieties and apparently with the following species also.

**Polygonum Muhlenbergii** (Meisn.) Wats.

*Polygonum emersum* Britton.

Banks and shallow water about marshes, ponds and streams. Frequent along the Connecticut River; rare or local elsewhere. Aug.— Sept.

**Polygonum pennsylvanicum** L.

Common or Pink Persicaria. Pink Knotweed.

Frequent. Moist rich soil in open situations. July — Oct. Often a troublesome weed.

**Polygonum Careyi** Olney.

Rare. Moist or wet sandy soil about ponds and in open swamps: Ellington (F. M. Pease), East Hartford (Weatherby), East Windsor, Windsor and Simsbury (Bissell), Southington (Andrews, Bissell), Waterbury (Andrews), Oxford and Beacon Falls (Harger), Milford and Stratford (Eames). July — Sept.

**Polygonum Hydropiper** L. (its classical name).

Common Smartweed or Water Pepper. Bite-tongue.

Frequent. Open wet rich soil. July — Oct.

In popular use medicinally, and in veterinary practice as a counter-irritant.

**Polygonum acre** HBK. (acid; biting).

*Polygonum punctatum* Ell.

Smartweed. Water Smartweed.

About ponds, pools, swamps and wet places, especially in woods and shaded situations. Southington, rare (Bissell, Andrews); frequent in the southern part of the state. July — Sept.

Medicinal like *Polygonum Hydropiper*.

**Polygonum acre** HBK., var. **leptostachyum** Meisn. (slender-spiked).

*Polygonum punctatum* Ell., var. *leptostachyum* Small.

Rare or local. Shallow water about ponds, swamps and banks of streams: Waterford (Graves), Lyme (Bissell), East Hartford and Simsbury (Weatherby), Southington (Andrews, Bissell), Stratford (Eames), Waterbury (Andrews). July — Sept.

**Polygonum orientale** L. (eastern).

Ragged Sailor. Kiss-me-over-the-Fence. Prince's Feather.

Rare or occasional. Waste places as an escape from old gardens. July — Sept. Adventive from India.

An old-fashioned plant still frequent in cultivation.

**Polygonum Persicaria** L. (like a Peach-tree; referring to the shape of the leaves).

Lady's Thumb. Heartweed. Heart's-ease. Pinkweed. Red-shank.

Common. Cultivated grounds, fields, roadsides and waste places. June — Oct. Naturalized from Europe.

Sometimes a troublesome weed. Medicinal.

**Polygonum hydropiperoides** Michx. (like *Polygonum Hydropiper*, the Water Pepper).

Smartweed. Water Smartweed. Mild Water Pepper.

Frequent. Shallow water of swamps, margins of ponds and streams. July — Sept.

**Polygonum virginianum** L.

Frequent. Woods and thickets in rich soil. July — Sept.

**Polygonum arifolium** L. (arum-leaved).

Halberd-leaved Tear-thumb. Scratch or Sickle Grass.

Occasional. Swamps, wet woods and thickets. July — Oct.

Sometimes used medicinally.

**Polygonum sagittatum** L. (arrow-head shaped).

Arrow-leaved Tear-thumb. Scratch Grass.

Frequent. Swamps and wet places. June — Oct.

**Polygonum Convolvulus** L. (like Convolvulus, the Bindweed).

Wild Buckwheat. Black, Corn, Sow or Blackbird Bindweed.

Frequent or common. Cultivated or waste grounds. June — Oct. Naturalized from Europe.

**Polygonum cilinode** Michx. (having fringed nodes).

Fringed Black Bindweed.

Rocky woods and more open places. Rare over most of its range: North Stonington (Graves), Norwich (Mrs. E. E. Rogers), Farmington (Weatherby), New Haven, Seymour and Naugatuck (Harger), Waterbury (A. E. Blewitt), Hamden and Monroe (Eames). Occasional throughout northern Litchfield County. June — Sept.

The var. *ERECTUM* Peck (upright), var. *breve* Peck, occurs with the species in Litchfield County.

Sometimes used as a cover-plant for rocks.

**Polygonum scandens** L. (climbing).

*Polygonum dumetorum* L., var. *scandens* Gray.

Climbing False or Wild Buckwheat. Hedge, Bush or Thicket Bindweed.

Common. Thickets and waste places. Aug.— Oct.

**Polygonum dumetorum** L. (of thickets).

Bush or Thicket Buckwheat or Bindweed.

Rare. On ledges or rocky banks, in open woods or partial shade: Stratford, Trumbull and Huntington (Eames), Wood-

bury (Eames & C. C. Godfrey), New Milford (Eames & E. H. Austin), Salisbury (Mrs. C. S. Phelps). Also in waste ground at Hartford (H. S. Clark). Aug.—Oct. Except in the last locality it appears to be native. Specimens from Milford (Eames) show a transitional form approaching the forma *cristatum* (Engelm. & Gray) Robinson, *Polygonum cristatum* Engelm. & Gray.

**Polygonum cuspidatum** Sieb. & Zucc. (sharp-pointed).

*Polygonum Zuccarinii* Small.

Japanese Knotweed.

Rare. Escaped from cultivation to waste places: Stonington and New London (Graves), New Haven (J. N. Bishop), Simsbury (Bissell), Bridgeport (Eames). Sept. Adventive from Japan.

An effective plant in masses, producing abundant bloom.

**Polygonum sachalinense** Schmidt.

Sacaline.

Rare. Tolland, well established in a field and along a roadside (Weatherby & Bissell). Aug.—Sept. Native of eastern Asia.

A coarse forage and ornamental plant recently introduced into this country; perfectly hardy, but of little value where other crops can be grown.

**FAGOPYRUM** Hill. Buckwheat.

**Fagopyrum esculentum** Moench (eatable).

*Fagopyrum Fagopyrum* Karst.

Buckwheat. Beech-wheat.

Occasional. Fields and roadsides, escaping from cultivation but not persisting. June — Oct.; fruit Aug.—Oct. Fugitive from Europe.

Cultivated for its seeds which are ground for food or fed to poultry. The flowers are much frequented by honey-bees.

**POLYGONELLA** Michx. Jointweed.

**Polygonella articulata** (L.) Meisn. (jointed).

Sand, Coast or Seaside Jointweed or Knot Grass.

Frequent on barren sands in the Connecticut Valley and

the southeastern part of the state, as well as the coastal dunes and beaches throughout; occasional or rare elsewhere in similar situations. Mid-July — Oct.

## CHENOPODIACEAE. GOOSEFOOT FAMILY.

**CYCLOLOMA** Moq. Winged Pigweed.

**Cycloloma atriplicifolium** (Spreng.) Coulter (having leaves like *Atriplex*).

*Cycloloma platyphyllum* Moq.

*Cycloloma*. Winged Pigweed.

Rare. Hamden, in dry ground (Miss Edwards, J. N. Bishop). July — Aug. Fugitive from the West.

**KOCHIA** Roth.

**Kochia Scoparia** (L.) Schrad. (broom-like).

Mexican Fire Plant. Mock Cypress.

Rare. Hartford, escaped from cultivation to waste ground (H. S. Clark & Weatherby). Sept. Fugitive or adventive from Europe.

Cultivated for its brilliant autumnal foliage.

**CHENOPODIUM** L. Goosefoot. Pigweed.

**Chenopodium ambrosioides** L. (like *Ambrosia*, the Ragweed).

Wormseed. Mexican Tea. Sweet Pigweed.

Waste places and roadsides. Rare or local, or in populous districts even frequent or common. Aug.— Oct. Naturalized from tropical America.

The seeds are sometimes used medicinally and were formerly officinal.

**Chenopodium ambrosioides** L., var. *anthelminticum* (L.) Gray (opposed to worms).

*Chenopodium anthelminticum* L.

Wormseed.

Rare. Bridgeport, in waste ground (Eames). Aug.— Oct. Adventive from tropical America.

**Chenopodium Botrys** L. (a cluster of grapes; referring to the shape of the inflorescence).

Feather Geranium. Wormseed. Jerusalem Oak. *Ambrosia*. Ambrose.

Waste places and roadsides. Rare in most districts: Norwich (Mrs. E. E. Rogers), New Haven (D. C. Eaton), Hartford (H. S. Clark), Plainville (Bissell), Southington (Andrews), Oxford (Harger), New Milford (C. K. Averill). Occasional at New London (Graves), and throughout the southwestern part of the state (Eames). July—Sept. Naturalized from Europe.

The seeds are sometimes used medicinally.

**Chenopodium capitatum** (L.) Aschers. (having heads: referring to the clusters of fruit).

*Blitum capitatum* L.

Strawberry Blite or Spinach.

Rare. Waterbury, in waste ground (J. M. Richardson), Huntington, a few plants in dry soil near the Housatonic River (Miss A. Wakely). June—July.

Fugitive from the West or from Europe.

Sometimes cultivated as a pot-herb.

**Chenopodium rubrum** L. (red).

Red or Coast Goosefoot or Blite.

Rare on salt marshes: Guilford (G. H. Bartlett), Fairfield (Eames). Aug.—Oct.

**Chenopodium glaucum** L. (glaucous).

Oak-leaved Goosefoot.

Local. Bridgeport, plentiful along a sandy roadside (Eames). Aug.—Oct. Adventive from Europe.

**Chenopodium hybridum** L. (mongrel).

Maple-leaved Goosefoot. Sowbane.

Occasional. Roadsides, waste places and river banks. July—Oct. Native, or in part naturalized from Europe.

**Chenopodium album** L. (white).

Pigweed. White Goosefoot. Lamb's Quarters. Wild Spinach.

Common. Waste places, on sandy shores and as a weed in cultivated ground. June—Sept. Naturalized from Europe.

The var. *VIRIDE* Moq. (green) is frequent with the typical form.

Sometimes troublesome as a weed. Occasionally used as a pot-herb.



**Chenopodium murale** L. (of walls).

Nettle-leaved Goosefoot. Sowbane.

Rare. Waste places: New London, as a gutter-weed (Graves), New Haven (W. A. Setchell), Fairfield (Eames). June — Sept. Adventive from Europe.

**Chenopodium urbicum** L. (of the city).

City or Upright Goosefoot.

Rare. Waste places in rich soil: Ledyard (Graves), Oxford (Harger), Naugatuck (A. E. Blewitt & Harger). Mid-May — Aug. Adventive from Europe.

**Chenopodium Boscianum** Moq.

Rare. Rocky woods: Southington and Meriden (Andrews, Bissell). Aug.— Sept.

**Chenopodium leptophyllum** Nutt. (slender-leaved).

Rare. Coastal beaches, sand dunes and sandy borders of salt marshes: Groton (Graves), New Haven (F. W. Hall), Milford (Harger, Eames), Stratford (Miss A. E. Carpenter, Eames), Bridgeport, Westport and Norwalk (Eames). Aug. — Sept.

**BETA** L. Beet.**Beta vulgaris** L. (common).

Common Beet.

Rare and fugitive. Waste grounds: Bridgeport (Eames). July. Native of southern Europe.

**ATRIPLEX** L. Orach.**Atriplex tatarica** L.

*Atriplex laciniata* Koch and many authors, not L.

Rare. Naugatuck, in waste ground (A. E. Blewitt). Aug. Fugitive from Europe.

**Atriplex patula** L. (spreading).

Spreading Orach.

Rare or occasional on the shores of the Sound.

The var. *HASTATA* (L.) Gray (halberd-shaped), *Atriplex hastata* L., is the usual form of this variable species, and is common on the shores of the Sound and edges of salt marshes,

extending inland along the Connecticut River as far as Hartford (H. S. Clark); also occurs in waste ground at Bristol (C. D. Bishop), Naugatuck (A. E. Blewitt), and Litchfield (Miss E. H. Thompson). Aug.—Sept.

The leaves are sometimes eaten as a pot-herb.

**Atriplex arenaria** Nutt. (of sand).

Beach Orach.

Rare or local. Sandy or gravelly shores of the Sound and adjacent waters: Groton and Stonington (Graves), East Haven (Harger), Milford (Eames, Harger), Stratford and westward (Eames). Aug.—Oct.

**SALICORNIA** L. Samphire. Glasswort.

**Salicornia mucronata** Bigel. (having a short, abrupt and small tip).

*Salicornia Bigelovii* Torr.

Samphire. Glasswort. Pickle Plant.

Frequent on salt marshes along the coast. Aug.—Sept.  
Sometimes gathered for pickling.

**Salicornia europaea** L.

*Salicornia herbacea* L.

Samphire. Glasswort. Pickle Plant. Chicken-toes. Crab or Frog Grass.

Frequent or common on salt marshes and shores. Aug.—Sept.

Often gathered for pickling.

**Salicornia ambigua** Michx. (doubtful).

Woody Samphire or Glasswort.

Frequent on stony shores and edges of salt marshes along the coast. Aug.—Sept.

**SUAEDA** Forskål. Sea Blite.

**Suaeda maritima** (L.) Dumort. (of the sea-coast).

*Dondia maritima* Druce.

Low Sea Blite.

Occasional on stony shores along the coast and about salt marshes and tidal rivers. July — Sept.

**Suaeda linearis** (Ell.) Moq. (very narrow).

*Dondia americana* Britton, not *Salsola salsa*, var. *americana* Pers.

Tall Sea Blite. Seaside Goosefoot.

Frequent on stony shores along the coast, about salt marshes and near tidal rivers. Aug.—Sept.

**SALSOLA** L. Saltwort.**Salsola Kali** L. (Arabic name).

Common or Prickly Saltwort.

Frequent on sandy shores of the Sound. July — Sept.

In Europe this species was formerly gathered and burned for soda to be used in the manufacture of glass.

**Salsola Kali** L., var. **tenuifolia** G. F. W. Mey. (fine-leaved).

*Salsola Tragus* of authors, but scarcely of L.

Russian Thistle.

Rare. Waste ground and along railroads: Hartford (H. S. Clark & Bissell), Southington (Andrews, Bissell), Naugatuck (B. B. Bristol), Ansonia (Harger), Bridgeport (Eames). July — Sept. Adventive from the West or from Asia.

The plant is a native of Asia, but is now a very troublesome weed in some parts of the West. It should always be eradicated on its first appearance.

**AMARANTHACEAE. AMARANTH FAMILY.****AMARANTHUS** L. Amaranth.**Amaranthus retroflexus** L. (bent backward).

Pigweed. Amaranth. Beet-root. Green Amaranth. Rough or Common Pigweed.

Common. Waste places and cultivated ground. July — Oct. Naturalized from tropical America.

A bad weed in cultivated ground.

**Amaranthus hybridus** L. (mongrel).

Pigweed. Slender Pigweed. Green Amaranth. Careless.

Frequent or common. Cultivated ground and waste places. July — Oct. Naturalized from tropical America.

The forma **HYPOCHONDRIACUS** (L.) Robinson (curing melancholy), *Amaranthus hypochondriacus* L., Prince's

Feather, is cultivated in gardens, and escapes to waste places at Southington and Meriden (Andrews), and Bridgeport (Eames).

The species is often a bad weed in cultivated ground.

**Amaranthus paniculatus** L. (panicled).

*Amaranthus hybridus* L., var. *paniculatus* U. & B.

Amaranth. Purple Amaranth.

Occasional. Roadsides, waste places and about old gardens, especially in the more populous districts. July — Oct. Adventive from tropical America.

**Amaranthus graecizans** L.

*Amaranthus albus* L.

Tumble Weed. White Amaranth or Pigweed. Bushy Pigweed.

Frequent. Cultivated fields and waste ground. July — Oct.

A weed, but not usually troublesome in this state.

**Amaranthus blitoides** Wats. (like *Blitum*, the Blite).

Prostrate Amaranth.

Rare. Roadsides and waste places: Norwich (Mrs. E. E. Rogers), New London (Graves), Hartford (H. S. Clark, Bissell), Naugatuck (A. E. Blewitt & Harger), Waterbury (A. E. Blewitt), Southbury (Harger), Milford, Bridgeport and Norwalk (Eames). July — Sept. Adventive from the West.

**Amaranthus spinosus** L. (spiny).

Spiny or Thorny Amaranth.

Rare. Waste places: New London (Graves), Norwich (Mrs. E. E. Rogers). July — Sept. Adventive from tropical America.

**Amaranthus caudatus** L. (tailed).

Prince's Feather. Love-lies-bleeding.

Rare. Escaped from cultivation into waste ground in Bridgeport and Norwalk (Eames). Aug. Native of India.

**ACNIDA** L. Water Hemp.**Acnida cannabina** L. (like Cannabis, the Hemp).

Salt Marsh Water Hemp.

Common about salt marshes and the borders of tidal creeks and rivers. Aug.—Sept.

**Acnida tuberculata** Moq. (pimply).*Acnida tamariscina* Wood, var. *tuberculata* U. & B.

Rare. Waste ground on bank of the Connecticut River at Hartford (Bissell), New Milford (E. H. Austin). Aug.—Sept. Fugitive from the West.

**Acnida tuberculata** Moq., var. **prostrata** (U. & B.) Robinson (prostrate).*Acnida tamariscina* Wood, var. *prostrata* U. & B.

Rare. Cultivated ground at Oxford (Harger). Aug.—Sept. Fugitive from the West.

## PHYTOLACCACEAE. POKEWEED FAMILY.

**PHYTOLACCA** L. Pokeweed.**Phytolacca decandra** L. (ten-stamened).

Common Pokeweed, Poke or Scape. Garget. Pigeon Berry. American Nightshade. Ink Berry. Red Ink Plant. Poke Root.

Frequent. Woods, fields and waste places, especially on burnt lands. July — Oct.

The young leaves and shoots make an excellent pot-herb, but care must be taken to exclude any part of the root. The berries and root have medicinal virtues and are officinal. The root is externally applied to caked udders of cows, and the berries are sometimes employed to color vinegar. The roots have been mistaken for Horseradish, with fatal results, and the plant has proved fatal to cattle eating it.

## NYCTAGINACEAE. FOUR-O'CLOCK FAMILY.

**MIRABILIS** L. Four-o'clock.**Mirabilis Jalapa** L. (producing jalap).

Four-o'clock. Marvel of Peru.

Rare. Escaped from cultivation at Bridgeport (Eames). Aug.—Oct. Fugitive from tropical America.

A desirable garden plant often cultivated for ornament.

**OXYBAPHUS** L'Hér.

**Oxybaphus nyctagineus** (Michx.) Sweet (like *Nyctaginia*, a genus of this family).

*Allionia nyctaginea* Michx.

Umbrellawort.

Rare. Granby, in fields (I. Holcomb). June — Aug. Introduced from the West.

**Oxybaphus hirsutus** (Pursh) Sweet (hairy).

*Allionia hirsuta* Pursh.

Umbrellawort.

Rare. Southington, field in dry gravelly soil (Andrews). July — Aug. Introduced from the West.

**Oxybaphus linearis** (Pursh) Robinson (very narrow).

*Oxybaphus angustifolius* Sweet.

*Allionia linearis* Pursh.

Umbrellawort.

Rare. North Haven, in sandy waste ground (A. W. Evans). June — Aug. Introduced from the West.

**ILLECEBRACEAE. KNOTWORT FAMILY.****SCLERANTHUS** L. Knawel.

**Scleranthus annuus** L. (annual).

Knawel. German Knot Grass. Gravel Chickweed.

Frequent. Dry, sandy or sterile fields and roadsides. May — Nov. Naturalized from Europe.

**ANYCHIA** Michx. Forked Chickweed.

**Anychia polygonoides** Raf. (like *Polygonum*, the Knotweed).

*Anychia dichotoma* of American authors, not Michx.

Rare. Norwalk, railroad track at Wilson's Point (C. K. Averill). June — Sept. Fugitive from the West.

**Anychia canadensis** (L.) BSP.

*Anychia dichotoma* Michx., but not of late American authors.

*Anychia capillacea* DC.

Forked Chickweed.

Occasional or frequent. Dry, often rocky woods. June — Sept.

## AIZOACEAE. CARPET WEED FAMILY.

**MOLLUGO** L. Indian Chickweed.**Mollugo verticillata** L. (whorled).

Carpet Weed. Indian Chickweed.

Common. Waste places, roadsides, cultivated ground and on coastal beaches. June—Oct. Naturalized from the warmer parts of America.

Sometimes a troublesome weed.

**TETRAGONIA** L.**Tetragonia expansa** Murr. (spread out).

New Zealand Spinach.

Local. Waste ground: Hartford, where hundreds of plants were growing in one locality (H. S. Clark), Fairfield (Eames). Sept. Fugitive from Eastern Asia or New Zealand.

## CARYOPHYLLACEAE. PINK FAMILY.

**SPERGULARIA** J. & C. Presl. Sand Spurrey.**Spargularia rubra** (L.) J. & C. Presl (red).*Buda rubra* Dumort.*Tissa rubra* Britton.

Sand Spurrey. Sandwort.

Frequent, especially near the coast. Dry, sandy or gravelly roadsides, paths and waste places. June—Sept.

**Spargularia marina** (L.) Griseb. (of the sea).*Buda marina* Gray's Manual ed. 6.*Tissa marina* Britton.

Salt Marsh Sand Spurrey. Seaside Sandwort or Spurrey.

Common on coastal shores and borders of salt marshes. June—Aug. Medicinal.

**SPERGULA** L. Spurrey.**Spargula arvensis** L. (of cultivated ground).

Corn, Sand or Common Spurrey. Tares. Cow-quake. Sandweed. Beggar-weed.

Rare or local. Roadsides, waste places and cultivated ground throughout. June—Nov. Naturalized from Europe.

It is said to be a nutritious and quick crop for fodder or hay, adapted to and a renovator of dry sandy soils. Apt to become a nuisance in some situations.

**Spargula sativa** Boenn. (sown).

Field Spurrey.

Rare. New London, in a cultivated field (Graves), Norwalk, sandy waste (Eames). July — Aug. Adventive from Europe.

**SAGINA** L. Pearlwort.

**Sagina decumbens** (Ell.) Torr. & Gray (reclining).

*Sagina apetala* of American authors, not Ard.

Small-flowered, Annual or Spurrey Pearlwort.

Rare or local. Dry soil of roadsides, walks and waste places: Ledyard (Graves), Woodbury (Harger). Throughout the coast region of the southwestern part of the state, where it also occurs in low or moist woods (Eames). Mid-May — Aug.

**Sagina procumbens** L. (trailing).

Pearlwort. Break-stone. Bird's-eye.

Occasional or frequent. Dripping rocks and wet, springy places in woods or partial shade, also dry banks, crevices of walls and walks and in stony or sandy wastes or sometimes on sea-beaches. May — July.

**ARENARIA** L. Sandwort.

**Arenaria lateriflora** L. (flowering at the side).

*Mochringia lateriflora* Fenzl.

Blunt-leaved or Showy Sandwort.

Occasional or frequent. Moist or dry, rocky, or low woods, meadows and even sometimes on sea-beaches. Mid-May — June.

**Arenaria macrophylla** Hook. (large-leaved).

*Mochringia macrophylla* Torr.

Larged-leaved Sandwort.

Rare. In rather dry leaf-mold covering trap talus, in shade: Guilford (G. H. Bartlett), and in the adjoining town of Durham (Harger). May.



**Arenaria peploides** L. (like *Euphorbia Peplus*).*Ammodenia peploides* Rupr.

Sea Beach Sandwort. Sea Chickweed or Purslane.

Sandy and stony shores of the Sound. Rare in Bridgeport (Eames), and Stratford (Miss A. E. Carpenter); frequent in New London County (Graves); not reported elsewhere. May—June.

**Arenaria serpyllifolia** L. (thyme-leaved).

Common or Thyme-leaved Sandwort.

Frequent or common. Dry, sandy or rocky open ground. May—July. Naturalized from Europe.

**Arenaria stricta** Michx. (upright).*Arenaria Michauxii* Hook. f.

Rock Sandwort.

Local. Limestone ledges and banks throughout western Litchfield County and south to Brookfield (Eames). June—July.

**Arenaria groenlandica** (Retz.) Spreng.

Mountain Sandwort or Starwort.

Rare. Rock ledges: White Rocks, Middletown, where it was first collected by H. L. Osborn in 1877, and Durham (G. H. Bartlett). Mid-April—May.

**STELLARIA** L. Starwort. Chickweed.**Stellaria borealis** Bigel. (northern).*Alsine borealis* Britton.

Northern Stitchwort or Starwort.

Rare. Bogs, wet meadows and banks of woodland brooks: Groton and Ledyard (Graves), Durham, Oxford and Monroe (Harger), Southington (Andrews), New Britain and Norfolk (Bissell), Barkhamsted (Harger), Winchester (Andrews, Bissell &amp; Harger), Salisbury (Mrs. C. S. Phelps). May—Aug.

**Stellaria longifolia** Muhl. (long-leaved).*Alsine longifolia* Britton.

Long-leaved Stitchwort or Starwort.

Swamps, low meadows and wet places. Rare in the south-

eastern part of the state: Franklin and Colchester (Graves).  
Frequent elsewhere. Mid-May — June.

**Stellaria graminea** L. (grass-like).

*Alsine graminea* Britton.

*Stellaria graminea* L., var. *lanceolata* Fenzl.

Lesser Stitchwort or Starwort.

Wet or dry grassland, roadsides and waste places. Occasional northward; frequent near the coast. June — July.  
Naturalized from Europe.

**Stellaria Holostea** L. (classical name).

*Alsine Holostea* Britton.

All-bone. Easter Bell. Greater Stitchwort or Starwort.

Rare. Woodbury, rich open woods (Eames & C. C. Godfrey); Norwalk, dry open wastes in Union Cemetery (Miss A. E. Carpenter). May — June. Naturalized from Europe.

**Stellaria media** (L.) Cyrill (intermediate).

*Alsine media* L.

Common or Winter Chickweed. Tongue Grass. White Bird's-eye.

Common. Waste places about dwellings, cultivated ground and lawns. Feb.— Dec. Naturalized from Europe.

Sometimes a troublesome weed, especially in damp soil.  
Medicinal.

**CERASTIUM** L. Mouse-ear Chickweed.

**Cerastium arvense** L. (of cultivated ground).

Field or Meadow Chickweed.

Rare. Lawns, fields, rocky banks and on ledges, usually in dry, sandy or sterile soil: New London (Graves), Norwich (Mrs. E. E. Rogers), East Lyme (Mrs. F. H. Dart), Middletown (M. Hitchcock), East Windsor (Bissell), Southington (Andrews & Bissell), New Haven, on West Rock (Harger, Eames et al.), Waterbury (A. E. Blewitt), Seymour and Oxford (Harger). May — mid-June.

**Cerastium vulgatum** L. (common).

Common or Larger Mouse-ear Chickweed.

Common. Woods, fields, cultivated ground and waste places. Mid-April — Oct. Naturalized from Europe.

A persistent and bad weed in lawns.

**Cerastium semidecandrum** L. (five-stamened).

Spring Mouse-ear. Small Mouse-ear Chickweed.

Local. East Lyme, plentiful in dry fields and pastures near the Niantic River (Graves). May—June. Naturalized from Europe.

**Cerastium nutans** Raf. (nodding).

*Cerastium longipedunculatum* of Britton's Manual.

Nodding Chickweed. Powder-horn.

Rare or local. Moist hillside woods and drier more or less open places: Norwich (Mrs. E. E. Rogers), East Lyme (Miss A. M. Ryon), West Hartford (H. S. Clark), Farmington and Newington (Bissell), Hamden (O. D. Allen), Orange and Oxford (Harger), Huntington, Trumbull, Milford and Stratford (Eames), Wilton (Miss A. E. Carpenter). Also at East Hartford, as a weed in greenhouse soil (A. W. Driggs). May—June.

The form with apetalous flowers often occurs.

**AGROSTEMMA** L. Corn Cockle.**Agrostemma Githago** L. (like Gith, the Fennel-flower).

*Lychnis Githago* Scop.

Cockle. Corn Cockle. Rose Pink or Campion.

Rare or local. Grain fields, cultivated ground and waste places. June—July. Adventive from Europe.

In the West, where it is often abundant, its seeds injure the appearance and quality of grain. Its seeds are poisonous to poultry and stock, and flour containing a considerable proportion of them has been made into bread and eaten with fatal results. Thorough baking, however, destroys the poison. Chronic poisoning due to the regular consumption of small quantities, and finally resulting fatally, has been observed in animals. The presence of Corn Cockle seeds in flour is easily detected, unless it has been well bolted, by the black, roughened scales of the seed coat.

**LYCHNIS** L. Campion.**Lychnis Coronaria** (L.) Desr. (pertaining to a crown).

Mullein Pink or Lychnis. Rose Campion. Dusty Miller.

Rare. Roadsides and waste places as an escape from cul-

tivation: Southington (Andrews, Bissell), Cheshire (Harger), Bridgeport and Fairfield (Eames). Mid-June — Aug. Native of Europe.

**Lychnis Flos-cuculi** L. (cuckoo-flower).

Ragged Robin, Jack or Lychnis. Meadow Pink or Campion.

Rare or local. Fields and meadows, probably introduced with grass seed: Waterford (Graves), Norwich, plentiful in a meadow (Mrs. E. E. Rogers, J. Trumbull), Middletown (J. H. Barbour), Hartford, plentiful in several fields (H. S. Clark & Bissell), Canton (Weatherby), Salisbury (Mrs. C. S. Phelps). Mid-May — June. Naturalized from Europe.

**Lychnis chalconica** L.

Maltese or Jerusalem Cross. Nonesuch.

Rare. Roadsides and about old houses: Oxford and Southbury (Harger), Bridgeport (Eames). July. Adventive from Japan.

**Lychnis dioica** L. (dioecious).

*Lychnis diurna* Sibth.

Red, Morning or Day-blooming Lychnis or Campion. Red or Poor Robin.

Rare. Moist or dry roadsides and waste places: Norwich (Mrs. E. E. Rogers), Groton (Bissell), New London (Graves), Guilford (G. H. Bartlett), East Haven (Eames), New Haven (D. C. Eaton, Harger), Meriden (Andrews), Southington (Bissell, Andrews), Darien (Mrs. W. D. Barclay). June — Sept. Adventive from Europe.

Frequent in old-fashioned gardens.

**Lychnis alba** Mill. (white).

*Lychnis vespertina* Sibth.

Evening or Ever-blooming Lychnis. White Campion or Robin. Bull-rattle.

Roadsides, fields and waste places, in either dry or moist ground. Common in New London County (Graves); frequent or locally common in Kent and New Milford (C. K. Averill, E. H. Austin); occasional, local or rare elsewhere. June — Sept. Naturalized from Europe.

**SILENE L.** Catchfly. Champion.**Silene antirrhina L.** (like *Antirrhinum*, the Snapdragon).

Sleepy or Snapdragon Catchfly.

Frequent or common. Dry fields, roadsides, sandy places and on rocks and ledges. Mid-May—July.

**Silene antirrhina L.**, var. **divaricata** Robinson (widely divergent).

Rare. Dry, sandy banks or sterile soil of ledges: Southington (Andrews), Milford and Stratford (Eames), Seymour and Oxford (Harger), Warren (in Herb. C. W. Swan). May—June.

**Silene Armeria L.** (like *Armeria*, the Thrift).

None-so-pretty. Sweet William, Garden or Lobel's Catchfly.

Sweet Susan. Pretty Nancy.

Rare. Escaped from gardens to roadsides and waste places. June—Sept. Native of Europe.

**Silene dichotoma Ehrh.** (forked).

Forked Catchfly.

Rare. Waste places, fields and grasslands: New London (Graves), Southington (Andrews, Bissell), Bristol (J. N. Bishop), East Windsor and Norfolk (Bissell), Seymour (Harger), Bridgeport (Eames), Wilton (Miss A. E. Carpenter), New Milford (Eames & E. H. Austin), Salisbury (Mrs. C. S. Phelps). June—Aug. Adventive from Europe.

**Silene noctiflora L.** (night-flowering).

Catchfly. Night-flowering Catchfly.

Rare. Roadsides and waste places about dwellings: Norwich (W. A. Setchell), Southington (Andrews, Bissell), Guilford (G. H. Bartlett and Bissell), North Branford and Oxford (Harger), Bridgeport and Fairfield (Eames). Mid-June—Oct. Adventive from Europe.

**Silene pennsylvanica Michx.**

*Silene caroliniana* of recent authors, perhaps of Walt.

Wild Pink. Fire Pink.

Dry, sandy soil, especially on banks. Rare or local in most districts: along the Thames River from Norwich southward (Graves), Colchester (Dr. E. J. Thompson), Scotland and

Windham (G. Waldo), North Haven (Harger), Woodbury (Eames & C. C. Godfrey), Newtown (J. P. Blackman), Brookfield (Eames). Becoming occasional in the southwestern part of the state. May — mid-June.

A handsome plant in cultivation.

**Silene stellata** (L.) Ait.f. (starry).

Starry Campion. Four-leaved Campion.

Rocky woods and thickets. Rare in its most northerly and easterly reported localities: New Milford (Eames), Beacon Falls (Harger), Plainville (Bissell), Simsbury (A. W. Driggs), Newington (H. S. Clark), Middletown (Harger), Old Lyme (Graves), East Lyme (Miss A. M. Ryon). Frequent near the coast westward. Mid-July — Sept.

A handsome plant and worthy of cultivation.

**Silene latifolia** (Mill.) Britten & Rendle (broad-leaved).

*Silene Cucubalus* Wibel.

*Silene vulgaris* Garcke.

Bladder Campion. Behen. Rattle Bags. Cow Bells.

Occasional or frequent. Grassland, roadsides and waste places. June — Sept. Naturalized from Europe.

### SAPONARIA L.

**Saponaria officinalis** L. (of the shops).

Bouncing Bet. Soapwort. Old-maid's or Hedge Pink.

Common. Fields, roadsides and waste places. July — Oct. Naturalized from Europe.

The plant has active medicinal properties, but is now seldom used. Often occurs with double flowers.

**Saponaria Vaccaria** L. (cow-herb).

*Vaccaria Vaccaria* Britton.

Cow-herb. Field Soapwort. Cow-rattle. Cockle.

Rare. Cultivated ground and waste places: Norwich (Mrs. E. E. Rogers), East Lyme (Miss A. M. Ryon), New Haven (D. C. Eaton), Mansfield and Salisbury (Mrs. C. S. Phelps), Hartford (Bissell), Southington (Andrews, Bissell), Waterbury (Mrs. C. H. Lyman, Jr.), Bridgeport and Fairfield (Eames), New Milford (E. H. Austin). June — July. Introduced from Europe.

**GYPHOPHILA L.****Gypsophila muralis** L. (of walls).

Gypsophyll. Mist.

Rare. Roadside in Granby, escaped from cultivation (I. Holcomb). June — Sept. Fugitive from Europe.

**Gypsophila elegans** Bieb. (elegant).

Rare. Southington, escaped from cultivation to field (Andrews). June — July. Fugitive from Asia.

**DIANTHUS L.** Pink. Carnation.**Dianthus deltoides** L. (triangular).

Maiden Pink. Meadow Pink.

Rare. Roadsides and waste ground: South Windsor (C. C. Hanmer), Plainville (J. N. Bishop), Bristol (W. A. Terry), Litchfield (Miss E. H. Thompson, Bissell). June — July. Adventive from Europe.

**Dianthus barbatus** L. (bearded).

Sweet William. Bunch or French Pink. Bloomy-down.

Rare. Roadsides and waste places as an escape from cultivation: Lebanon (Mrs. C. B. Graves), Guilford (G. H. Bartlett), Southington (Bissell, Andrews), Southbury (Harger), Fairfield (Eames), Redding (Eames &amp; C. C. Godfrey), Salisbury (Mrs. C. S. Phelps). June — July. Introduced from Europe.

**Dianthus Armeria** L. (like Armeria, the Thrift).

Deptford Pink.

Dry fields and roadsides and in woods. Occasional northward and frequent or locally common throughout the southern part of the state. July — Sept. Naturalized from Europe.

**Dianthus plumarius** L. (feathery).

Grass, Garden, Scotch or Pheasant's-eye Pink.

Rare. Escaped from cultivation: Thompson, in an old cemetery near Wilsonville where it is spontaneous in the grass (Graves). May — June. Introduced from Europe.

## PORTULACACEAE. PURSLANE FAMILY.

## CLAYTONIA L. Spring Beauty.

*Claytonia virginica* L.

Spring Beauty. Mayflower.

Rich moist woods and more open places. Occasional or frequent in the southwestern part of the state; rare or local elsewhere. April — May.

Easily cultivated in suitable situations.

*Claytonia caroliniana* Michx.

Spring Beauty. Broad-leaved Spring Beauty.

Rare or local. Rich moist woods: Middletown (M. Hitchcock), Bristol (W. A. Terry), Barkhamsted (A. E. Blewitt), Torrington (Miss B. A. Parker), New Milford (E. H. Austin), Cornwall (Miss J. T. Gregory), Salisbury (Mrs. C. S. Phelps). Late March — April.

## PORTULACA L. Purslane.

*Portulaca oleracea* L. (suitable for a pot-herb).

Purslane. Pusley.

Common. Cultivated and waste ground. June — Sept. Naturalized from the South or from Europe; now cosmopolitan.

A bad weed in any cultivated ground, especially in onion fields. Difficult to eradicate because of its tenacity of life, rapid growth and prolific seeding. Excellent as a pot-herb, and some strains are cultivated for this use.

*Portulaca grandiflora* Hook. (large-flowered).

Portulaca. Garden or Showy Portulaca. Wax Pinks. Garden or French Purslane. Rose Moss. Sun-plant.

Rarely escaped from gardens into waste places: Bridgeport and Norwalk (Eames), Ansonia (Harger). July — Oct. Fugitive from South America.

## CERATOPHYLLACEAE. HORNWORT FAMILY.

## CERATOPHYLLUM L. Hornwort.

*Ceratophyllum demersum* L. (submerged).

Frequent. Ponds, pools and slow streams. June — July. The var. *ECHINATUM* Gray (prickly) is frequent in the



southwestern part of the state (Eames), reaching eastward to New Haven (D. C. Eaton) and northward to Middlebury and Woodbury (Harger). The fruit, July — Aug., is often present in the variety, not seen otherwise.

## NYMPHAEACEAE. WATER LILY FAMILY.

**NYMPHAEA** L. Yellow Pond Lily. Spatter-dock.

**Nymphaea advena** Ait. (a stranger).

*Nuphar advena* Ait. f.

Yellow Pond Lily. Spatter-dock. Frog, Cow, Hog, Bull-head or Horse Lily. Brandy Bottle.

Common. Ponds, pools and slow streams. Mid-May — Sept.

The var. **VARIEGATA** (Engelm.) Fernald (variegated) has been found in Salisbury (C. C. Godfrey), Goshen (L. M. Underwood), Kent (Eames).

The rhizome is medicinal.

× (?) **Nymphaea rubrodisca** (Morong) Greene (red-disked).

*Nuphar advena* Ait. f., var. *minus* Morong.

Rare. In ponds: Norfolk (J. H. Barbour), Trumbull, Eames). June — Aug.

**Nymphaea microphylla** Pers. (small-leaved).

*Nymphaea Kalmiana* Sims.

*Nuphar Kalmianum* Ait. f.

Small Yellow Pond Lily.

Rare or local. Ponds and still water: Lyme (Graves, Bissell), Windham (J. W. Robbins), North Haven (Bissell), Milford (Eames), Derby (H. C. Beardslee), Watertown (Harger), Norfolk (J. H. Barbour). June — Aug.

**CASTALIA** Salisb. Water Lily. Water Nymph.

**Castalia odorata** (Ait.) Woodv. & Wood (fragrant).

*Nymphaea odorata* Ait.

*Nymphaea odorata* Ait., var. *minor* Sims.

White or Sweet-scented White Water Lily. Pond Lily.

Frequent or common. Ponds and still waters. June — Sept.

Introduced in many ponds for its showy and fragrant

flowers, which are often gathered and sold in market. The rhizome is medicinal.

**Castalia tuberosa** (Paine) Greene (bearing tubers).

*Nymphaea reniformis* of authors, not Walt.

White Pond or White Water Lily.

Rare. In deep water at Selden's Cove, Lyme (Graves & Bissell), and at Round Pond, Ridgefield (Eames). June — Aug.

**NELUMBO** Adans. Sacred Bean.

**Nelumbo lutea** (Willd.) Pers. (yellow).

Lotus. American or Yellow Nelumbo or Lotus. Great Water Lily. Duck Acorn. Water Chinquapin.

Very rare. In Selden's Cove, Lyme (D. C. Eaton in 1856, Graves, et al.). July — Aug.

**BRASENIA** Schreb. Water Shield.

**Brasenia Schreberi** Gmel.

*Brasenia peltata* Pursh.

*Brasenia purpurea* Casp.

Water Shield or Target. Little Water Lily. Waterleaf.

Ponds, slow streams and ditches. Frequent near the coast in New London County, occasional or rare elsewhere. Late June — Aug.

**RANUNCULACEAE. CROWFOOT FAMILY.**

**RANUNCULUS** L. Crowfoot. Buttercup.

**Ranunculus circinatus** Sibth. (coiled).

*Batrachium divaricatum* of authors, not *Ranunculus divaricatus* Schrank.

*Batrachium longirostre* of Britton's Manual.

Stiff or White Water Crowfoot.

Local. Salisbury, plentiful at Lakeville in a pond and in a stream flowing from it (M. L. Fernald, J. R. Churchill & Bissell). May — Aug.

**Ranunculus aquatilis** L. (aquatic), var. **capillaceus** DC. (hair-like).

*Ranunculus aquatilis* L., var. *trichophyllus* Gray.

*Batrachium trichophyllum* Bosch.

*Batrachium flaccidum* Rupr.

*Batrachium Drouetii* Nym.

*Batrachium confervoides* of authors, not Fries.

Common White Water Crowfoot. Water Milfoil. Green Eel Grass.

Occasional or frequent. Ponds and slow streams. Mid-May — Aug.

**Ranunculus Cymbalaria** Pursh (like *Cymbalaria*, a genus of the Figwort family).

*Oxygraphis Cymbalaria* Prantl.

Seaside Crowfoot.

Rare. Muddy shores: coves of the Thames River in Waterford and Montville (Graves), Bridgeport (H. C. Beardslee), Partridge Island (G. W. Hawes). July — Aug.

**Ranunculus delphinifolius** Torr. (having leaves like the Larkspur).

*Ranunculus multifidus* Pursh, not Forskål.

Yellow Water Crowfoot.

Rare or local. Ponds and pools. May — June.

The var. *TERRESTRIS* (Gray) Farwell (terrestrial) is sometimes found, especially in dry seasons. It seems to be the form taken by the species when rooting out of water, or when left in the mud of drying ponds.

**Ranunculus laxicaulis** (Torr. & Gray) Darby (loose-stemmed).

*Ranunculus ambigens* Wats.

*Ranunculus obtusiusculus* Raf.

Spearwort. Water Plantain Spearwort.

Occasional. Ditches, wet places and shallow water. June — Aug.

**Ranunculus Flammula** L. (a little flame), var. *reptans* (L.) Meyer (creeping).

*Ranunculus reptans* L.

Creeping or Crawling Spearwort.

Rare. Wet sandy or rocky shores: Waterford and Sprague (Graves), Preston (W. A. Setchell), Wethersfield (C. Wright), Windsor (Bissell). June — Aug.

**Ranunculus sceleratus** L. (cursed).

Cursed, Marsh, Ditch, or Biting Crowfoot. Water Celery. Blisterwort.

Swamps, ditches and wet places. Along the Connecticut River in East Hartford, rare (Weatherby, A. W. Driggs), and Middletown, occasional (A. W. Driggs); along the coast in Guilford (Bissell), and East Haven, rare (Harger); occasional westward, especially about the junction of salt marshes and upland. Mid-May — June.

One of our most acrid species and known to be poisonous to stock.

**Ranunculus micranthus** Nutt. (small-flowered).

*Ranunculus abortivus* L., var. *micranthus* Gray.

Rock Crowfoot.

Dry rocky woods. Occasional in the southeastern part of the state and along the tops of the trap hills in the Connecticut Valley; rare elsewhere: Oxford and Seymour (Harger), Darien (Harger, Eames & Weatherby). May.

**Ranunculus abortivus** L. (abortive).

Small-flowered, Kidney-leaved or Smooth Crowfoot.

Common. Rich, usually moist woods, thickets and more open places. Mid-April — July.

**Ranunculus abortivus** L., var. **eucyclus** Fernald (well-rounded).

Rare. Moist rich woods: Sprague (Graves), Southington (Andrews), Oxford (Harger), Brookfield (Eames), Cornwall and Salisbury (Bissell). May — June.

**Ranunculus allegheniensis** Britton.

Mountain Crowfoot.

Rare. Rich woods: Monroe and Cornwall (Harger), Salisbury (M. L. Fernald & Bissell). May — June.

**Ranunculus recurvatus** Poir. (bent backward).

Hooked, Rough or Sanicle-leaved Crowfoot.

Frequent or common. Moist rich woods and more open places. May — June.

**Ranunculus fascicularis** Muhl. (clustered).

Early or Tufted Buttercup or Crowfoot.

Rare. Dry woods and more open places: Franklin (R. W. Woodward), New Haven (D. C. Eaton, G. W. Hawes), Granby (I. Holcomb), Southbury (Harger), Woodbury (Eames & C. C. Godfrey), Brookfield (Eames), Salisbury (Mrs. C. S. Phelps). April—May.

Generally confused with *Ranunculus hispidus*.

**Ranunculus septentrionalis** Poir. (northern).

Swamp or Marsh Buttercup or Crowfoot.

Wet meadows, swamps, ditches and along streams. Locally plentiful in Franklin and Lyme (Graves), but not otherwise reported from the southeastern part of the state; elsewhere well distributed and frequent or common. Mid-May—June.

**Ranunculus hispidus** Michx. (rough-hairy).

Wood or Early Buttercup or Crowfoot.

Dry or moist often rocky woods. Occasional in the northern part of the state, extending southward as far as Franklin (R. W. Woodward), Middletown (M. Hitchcock), Berlin (Andrews), Oxford (Harger), Darien (Miss A. E. Carpenter). Late April—mid-June.

**Ranunculus repens** L. (creeping).

Creeping or Spotted-leaf Buttercup or Crowfoot.

Lawns and waste places in New London County, occasional (Graves); Hartford, rare, and Stamford, roadside (A. W. Driggs); New Hartford, bank of Farmington River, and Norfolk, wet woods (Bissell); Fairfield, moist grassy roadsides and wastes (Eames); Salisbury, along a woodland brook (Mrs. C. S. Phelps & Bissell). May—July. In part naturalized from Europe.

The double-flowered form of the gardens has escaped to wet fields in Salisbury (Mrs. C. S. Phelps & Bissell).

**Ranunculus pennsylvanicus** L.f.

Bristly Buttercup or Crowfoot.

Rare or local. Open wet or swampy places and muddy or sandy shores: Lyme, at Selden's Cove (Graves), East Hartford (Weatherby), Enfield and Granby (A. W. Driggs), Hamden (Bissell, Andrews), Oxford (Harger), Canaan (J.

H. Barbour), Sharon (Bissell), Salisbury (Mrs. C. S. Phelps).  
June — Aug.

**Ranunculus bulbosus** L. (bulbous).

Bulbous Buttercup or Crowfoot. Butter or Blister Flowers.  
Gold-cups. King-cups.

Common. Fields, pastures and roadsides, usually in dry ground. Mid-May — July. Naturalized from Europe.

A weed of the same character as *Ranunculus acris*, and, like that and some other species of this genus, an acrid poison. The irritant properties are said to be dissipated in drying. Medicinal.

**Ranunculus acris** L. (acrid).

Buttercups. Tall or Meadow Buttercup or Crowfoot. Butter or Blister Flowers.

Frequent or common. Fields, meadows and roadsides, usually in moist soil. Mid-May — Nov. Naturalized from Europe.

The var. *STEVENI* (Andrz.) Lange, occurs occasionally.

A pernicious weed, especially in pastures, and avoided by grazing animals.

**THALICTRUM** L. Meadow Rue.

**Thalictrum dioicum** L. (dioecious).

Early Meadow Rue. Feathered Columbine. Quicksilver Weed.

Rocky hillsides in rich soil. Occasional or local near the coast; local, frequent or common elsewhere. Late April — May.

**Thalictrum revolutum** DC. (rolled back from the edge).

*Thalictrum purpurascens* of Gray's Manual ed. 6 in part.  
Purple or Wax-leaved Meadow Rue.

Occasional northward in dry fields and on hillsides; frequent southward, especially near the coast, in copses, dry or moist fields and in meadows. June — July.

**Thalictrum polygamum** Muhl. (polygamous).

Common or Tall Meadow Rue.

Frequent or common. Low meadows, thickets and beside streams. Late June — Aug.

**ANEMONELLA** Spach.

**Anemonella thalictroides** (L.) Spach (like *Thalictrum*, the Meadow Rue).

*Syndesmon thalictroides* Hoffmg.

Rue Anemone. Wind-flower.

Dry to moist woods, banks and more open places. Rare near the coast in New London County; frequent or common elsewhere. April — May.

Easily cultivated and then often double-flowered.

**HEPATICA** Hill. Liverleaf. Hepatica.

**Hepatica triloba** Chaix (three-lobed).

*Hepatica Hepatica* Karst.

Hepatica. Liverleaf. Liverwort. Mayflower. Mouse-cars. Trefoil.

Rich, usually rocky woods. Rare near the coast, becoming occasional or frequent northward. March, rarely — mid-May.

Placed in a warm situation at any time during the winter, potted plants will bloom. Of native plants the Liverleaf is usually considered to be the earliest flower of spring, although in their range *Claytonia caroliniana* and *Cardamine purpurea* habitually precede it. The leaves are medicinal and are still occasionally used in domestic practice.

**Hepatica acutiloba** DC. (with pointed lobes).

*Hepatica acuta* Britton.

Hepatica. Liverleaf. Liverwort.

Rare. Rocky woods in rich soil: Torrington and Salisbury (Bissell), Cornwall (E. E. Brewster), Canaan (A. W. Driggs). Late March — mid-May.

Medicinal properties the same as those of *Hepatica triloba*.

**ANEMONE** L. Anemone.

**Anemone cylindrica** Gray (cylindrical).

Long-fruited Anemone.

Dry roadsides, banks and borders of woods. Rare on and near the coast: Groton (Graves), Norwich (Mrs. E. E. Rogers, Graves), Guilford (G. H. Bartlett), Bridgeport and

Easton (Eames). Becoming occasional northward and frequent in the northwestern part of the state. Mid-June—July.

An acrid poison with medicinal properties.

**Anemone riparia** Fernald (of river banks).

Rocky woods and on river banks. Oxford, along the Housatonic River (Harger), and occasional or local from Litchfield northward and westward (Bissell). June—July.

**Anemone virginiana** L.

Tall or Summer Anemone. Thimbleweed.

Frequent. Dry woods, partial shade and in fields. Mid-June—Aug.

**Anemone canadensis** L.

*Anemone pennsylvanica* L.

Round-leaved or Round-headed Anemone.

Moist thickets and banks. Rare over most of its range: East Haven (A. W. Evans), Southington, apparently introduced (Andrews), North Canaan and Cornwall (Bissell), Newtown (J. P. Cowles). Locally plentiful along the Housatonic River in Oxford, Monroe and Derby (H. C. Beardslee, Harger). Mid-May—June.

**Anemone quinquefolia** L. (five-leaved).

*Anemone nemorosa* of Gray's Manual ed. 6, not L.

Wind-flower. Wood or Spring Anemone. Mayflower. Snow-drop.

Common. Rich, usually moist, woods, thickets and more open places. April—May.

An acrid poison with medicinal properties.

**CLEMATIS** L. Virgin's Bower.

**Clematis virginiana** L.

Wild Clematis. Devil's Hair. Traveler's Joy. Love Vine.

Common. Moist thickets, hedge-rows and roadsides. July—Aug.; fruit Sept.—Nov.

An acrid poison, and when bruised actively irritant to the skin or eyes. The leaves and flowers are medicinal.

**Clematis verticillaris** DC. (whorled).

*Atragene americana* Sims.

Purple or Mountain Clematis or Virgin's Bower.



Dry rocky woods. Rare or local over most of its range: North Stonington and East Haddam (Graves), Guilford (G. H. Bartlett), Bolton (Weatherby), New Haven (D. C. Eaton, et al.), Oxford (Harger), Salisbury (Mrs. C. S. Phelps). Occasional about the trap hills of central Connecticut. May.

**CALTHA** L. Marsh Marigold.

**Caltha palustris** L. (of marshes).

Marsh Marigold. Cowslips. Meadow Gowan. May-blobs. Water-blobs.

Common or local. Swamps, wet places and along brooks. Mid-April — May.

The young plants are much used as a pot-herb. It is handsome in cultivation, flourishing in rich moist soil.

**TROLLIUS** L. Globeflower.

**Trollius laxus** Salisb. (loose).

American, Spreading, Wild or Swamp Globeflower.

Rare. Swampy woods and meadows: Cornwall (E. E. Brewster, 1879, and at the same locality, Bissell, 1903). April — May.

**COPTIS** Salisb. Goldthread.

**Coptis trifolia** (L.) Salisb. (three-leaved).

Goldthread. Canker-root. Yellow-root. Mouth-root.

Swamps and wet woods, especially in sphagnum. Not reported near the coast west of New Haven; rare near the coast eastward, mostly in sphagnum cedar swamps or cold, swampy woods; occasional northward, becoming frequent in the northern part of the state. May — mid-June.

The roots have been much used as a bitter tonic and in the form of an infusion as an astringent wash.

**NIGELLA** L. Fennel Flower.

**Nigella sativa** L. (sown).

Nutmeg Flower.

Rare. Bridgeport, in waste ground (Eames). July. Fugitive from Europe.

Sometimes cultivated for its seeds which, under the name of Black Cumin, are used for seasoning.

**AQUILEGIA** L. Columbine.**Aquilegia canadensis** L.

Wild or Red Columbine. Honeysuckle. Meeting-houses.  
Rock Lily. Bells.

Occasional, frequent or common. Open or shaded places,  
usually in rocky ground. Late April—June.

The var. *FLAVIFLORA* (Tenney) Britton (yellow-flowered)  
sometimes occurs.

**Aquilegia vulgaris** L. (common).

Garden or European Columbine. Blue Bells. Cock's-foot.

Rare. Escaped from gardens to roadsides and waste places:  
Lebanon (Graves), West Hartford (H. S. Clark & Bissell),  
Oxford (Harger), Milford, Westport and Woodbury (Eames  
& C. C. Godfrey), Norfolk (Weatherby). Mid-May—June.  
Adventive from Europe.

The herb is medicinal.

**DELPHINIUM** L. Larkspur.**Delphinium Consolida** L. (classical name).

Garden or Field Larkspur. Dolphin Flower. Lark-heel.  
Knight's Spur.

Rare. Waste grounds: Windham (Bissell), Bridgeport  
and Fairfield (Eames), Middlebury (Harger). July—Sept.  
Fugitive or adventive from Europe.

The herb and seeds are medicinal. The leaves are believed  
to be poisonous to stock.

**Delphinium Ajacis** L. (from Ajax, Greek legendary hero).

Larkspur. Rocket Larkspur.

Rare. Escaped from gardens into waste land and fields:  
New London (Graves), Bridgeport and Fairfield (Eames),  
Weston (Eames & C. C. Godfrey). Mid-June—Aug. Ad-  
ventive from Europe.

**CIMICIFUGA** L. Bugbane.**Cimicifuga racemosa** (L.) Nutt. (having racemes).

Black or Rattle Cohosh or Snakeroot. Rattle-top. Squaw-  
root.

Rich, often rocky woods. Norfolk, plentiful at one locality.

but probably introduced (Miss M. C. Seymour), Southington, rare or local (Andrews, Bissell), Oxford, common (Harger); and frequent throughout the southwestern part of the state (Eames). Late June—July.

The var. *DISSECTA* Gray (finely cut) occurs with the species at Stratford (Eames).

The rootstock is valued in medicine and is officinal. In cultivation forms a fine background for lower plants in somewhat shaded situations.

### **ACTAEA** L. Baneberry. Cohosh.

#### **Actaea rubra** (Ait.) Willd. (red).

*Actaea spicata* L., var. *rubra* Ait.

Red Baneberry, Cohosh or Snakeroot. Red-beads. Coral-berry. Snake-berry.

Rich, often rocky woods. Rather rare near the coast; occasional elsewhere. May—mid-June; fruit July—Aug.

Worthy of cultivation in a wild garden or rockery. The rootstock and roots are medicinal.

#### **Actaea alba** (L.) Mill. (white).

White Baneberry, Cohosh or Snakeroot. White-beads. Neck-lace-weed.

Rich, often rocky woods. Occasional northward; frequent southward. Mid-May—mid-June; fruit Aug.—Sept.

The rootstock and roots are medicinal. Both this and the preceding species contain irritant principles and are poisonous to stock. The berries of both species are poisonous to mankind.

### **HYDRASTIS** Ellis. Orange-root. Yellow Puccoon.

#### **Hydrastis canadensis** L.

Golden Seal. Yellow-root. Turmeric-root. Indian Turmeric or Paint.

Rare. Rocky woods in rich soil: Plainville (J. N. Bishop), Southington (Mrs. E. R. Newell). May.

The rhizome and roots possess valued medicinal properties and are officinal.

## MAGNOLIACEAE.      MAGNOLIA FAMILY.

## LIRIODENDRON L.      Tulip Tree.

**Liriodendron Tulipifera** L. (tulip-bearing).

Tulip Tree. Tulip, Hickory or Yellow Poplar. Canoe-wood.  
Saddle Tree. Whitewood.

Occasional, local or frequent. Rich woods and openings.  
June.

One of our largest trees and remarkable for its tall columnar trunk. A beautiful tree for roadside and park planting, rarely attacked by insects. The wood is soft, brittle, easily worked, largely used for interior finish, cabinet work, wooden ware, etc. The inner bark is medicinal.

## MENISPERMACEAE.      MOONSEED FAMILY.

## MENISPERMUM L.      Moonseed.

**Menispermum canadense**. L.

Moonseed. Yellow Parilla or Sarsaparilla.

River banks and dry rocky hillsides, in woods or partial shade. Reported only from the western half of the state; occasional near the coast and on trap hills; rare elsewhere. June — early July; fruit Sept.—Oct., or persisting through the winter.

The roots are medicinal and were formerly officinal. Sometimes cultivated.

## BERBERIDACEAE.      BARBERRY FAMILY.

## PODOPHYLLUM L.      May Apple. Mandrake.

**Podophyllum peltatum** L. (peltate).

Mandrake. May, Indian, Hog or Devil's Apple. Duck's-foot.  
Wild Lemon. Raccoon-berry.

Rare. Roadsides and rich woods, nearly throughout, usually as an escape from cultivation. Mid-May — early June; fruit July — Aug.

The fruit is edible and harmless but disagreeable to many persons. The underground portion is medicinal and officinal and is the source of podophyllin. It is a desirable plant to grow in colonies for spring effects in the wild garden.

**CAULOPHYLLUM** Michx. Blue Cohosh.

**Caulophyllum thalictroides** (L.) Michx. (like *Thalictrum*, the Meadow Rue).

Pappoose Root. Squaw-root. Blue Cohosh. Blueberry Root. Blueberry.

Rich rocky woods, especially in moist situations; sometimes in low wooded swamps and openings along the coast. Rare near the coast eastward; occasional or local elsewhere. May; fruit Aug.—Oct., and sparingly persistent through the winter.

The rhizome and roots are of some value medicinally and were formerly officinal.

**BERBERIS** L. Barberry.

**Berberis vulgaris** L. (common).

Common Barberry. European Barberry. Pepperidge Bush.

Roadsides, fence-rows and pastures. Frequent or locally common southward, especially near the coast; occasional elsewhere. May—June; fruit Sept.—Oct., partly persistent through the winter. Naturalized from Europe.

The acid fruit is used to make a refreshing drink and for preserving. The bark has medicinal properties and has acquired local reputation as a spring medicine. Its beauty and other desirable qualities make it worthy of cultivation, especially as a hedge-plant.

**LAURACEAE. LAUREL FAMILY.****SASSAFRAS** Nees.

**Sassafras variifolium** (Salisb.) Kuntze (various-leaved).

*Sassafras officinale* Nees & Eberm.

*Sassafras Sassafras* Karst.

Sassafras. Saxifrax. Cinnamon-wood. Ague Tree.

Frequent. Dry or moist woods, thickets and fence-rows, and on rocky hillsides. May—mid-June; fruit Sept.

The wood is aromatic, rather soft and brittle, but durable in contact with the soil. The root-bark is medicinal and is used as an ingredient of root beer. It furnishes a volatile oil of agreeable odor and taste, used for flavoring candy, soap,

etc., and as an ingredient of liniments. The bark of the root, the pith and the volatile oil are officinal. The leaves are sometimes chewed to allay thirst.

**BENZOIN** Fabric. Wild Allspice. Fever Bush.

**Benzoin aestivale** (L.) Nees (of summer).

*Lindera Benzoin* Blume.

*Benzoin Benzoin* Coulter.

Spice, Benjamin or Fever Bush. Wild Allspice. Spice-wood. Snapwood.

Common. Wet woods and thickets. Mid-April — mid-May; fruit Sept.— Oct.

The fragrant bark and the berries are occasionally used medicinally.

## PAPAVERACEAE. POPPY FAMILY.

### ESCHSCHOLTZIA Cham.

**Eschscholtzia californica** Cham.

California Poppy.

Rare. Fairfield, a waif in waste ground (Eames). July. Fugitive from the Pacific Coast.

### SANGUINARIA L. Bloodroot.

**Sanguinaria canadensis** L.

Bloodroot. Red or White Puccoon. Red Indian Paint. Red-root.

Rich woods and shaded places, especially in rocky situations. Rare or local near the coast; local, frequent or common elsewhere. April — mid-May.

Flowers sometimes pink. The rootstock is employed in medicine and is officinal.

### CHELIDONIUM L. Celandine.

**Chelidonium majus** L. (greater).

Celandine. Swallow-wort. Tetter-wort. Kill-wart.

Occasional or frequent. Fence-rows, roadsides, crevices of walls and rocky places and waste ground about dwellings, especially in shade. May — June. Naturalized from Europe.

The plant is actively poisonous to stock; is also medicinal, until recently officinal.

**PAPAVER L. Poppy.****Papaver somniferum L.** (sleep-bringing).

Garden or Opium Poppy. Common Poppy.

Rare. Waste ground as an escape from cultivation: Bridgeport (Eames). July. Adventive from the Old World.

Medicinal and extensively cultivated in the East as the source of opium.

**Papaver Rhoeas L.** (classical name for this species).

Red, Field or Corn Poppy. Corn, Canker or African Rose. Headache.

Rare. Grassland, grain fields and roadsides: Southington (Andrews, Bissell), Stratford (Miss A. E. Carpenter, Eames), Fairfield (Eames). June — mid-July. Fugitive from Europe.

The "Shirley," one of the handsomest of poppies in cultivation, is a form of this species. Known to be poisonous to stock.

**Papaver dubium L.** (doubtful).

Field or Smooth-fruited Poppy.

Rare. Waste ground: Fairfield (Eames), Westport (R. Thaxter, Miss A. E. Carpenter). May. Adventive from Europe.

**ARGEMONE L. Prickly Poppy.****Argemone alba** Lestib. (white).

White Prickly Poppy.

Rare. East Lyme, one plant in newly seeded grassland (Miss A. M. Ryon). June—July. Fugitive from the southwest.

**Argemone mexicana L.**

Mexican or Prickly Poppy. Flowering or Yellow Thistle. Devil's Fig. Bird-in-the-Bush.

Rare. Roadside in New Haven (D. C. Eaton). July—Aug. Fugitive from tropical America.

**FUMARIACEAE. FUMITORY FAMILY.****ADLUMIA Raf. Climbing Fumitory.****Adlumia fungosa** (Ait.) Greene (spongy).

*Adlumia cirrhosa* Raf.

Mountain or Wood Fringe. Alleghany or Canary Vine. Fairy Creeper.

Rocky hillsides, especially in shaded places or in woods. Rare in the eastern half of the state and near the coast westward: Waterford (Graves), Guilford (G. H. Bartlett), New Haven (J. A. Allen), Weston (Miss E. L. Smith). Local or occasional northward in the western half of our area. July — Sept.

A highly ornamental plant and occasionally cultivated.

### DICENTRA Bernh.

#### **Dicentra Cucullaria** (L.) Bernh. (hood-like).

*Bicuculla Cucullaria* Millsp.

Dutchman's, Kitten or Little-boy's Breeches. White Eardrops or Hearts. Soldier's Cap. Boys-and-Girls.

Rocky woods in rich soil. Rare in the southeastern part of the state: Franklin (Graves). Local, occasional or frequent elsewhere. April — mid-May.

#### **Dicentra canadensis** (Goldie) Walp.

*Bicuculla canadensis* Millsp.

Squirrel or Turkey Corn. Girls-and-Boys.

Rare or local. Moist rich soil of woodland hillsides among rocks: Bozrah (Mrs. E. E. Rogers), Plainville (J. N. Bishop), Torrington (Bissell). April — mid-May.

The tubers are medicinal.

### CORYDALIS Medic.

#### **Corydalis sempervirens** (L.) Pers. (evergreen).

*Corydalis glauca* Pursh.

*Capnoides sempervirens* Borkh.

Pale or Pink Corydalis.

Occasional. Thin soil and crevices of dry exposed ledges, and in recent clearings. Mid-May — Oct.

### FUMARIA L. Fumitory.

#### **Fumaria officinalis** L. (of the shops).

Common or Hedge Fumitory. Modesty.

Rare. Escaped from cultivation to waste places, roadsides and about old gardens: New Haven (D. C. Eaton), Southington (Andrews), Waterbury (A. E. Blewitt), Oxford (Harger), Fairfield and Newtown (Eames), Stamford (W. H. Hoyt). Mid-May — Sept. Adventive from Europe.



Formerly, and rarely even now, cultivated for its reputed medicinal properties.

## CRUCIFERAE. MUSTARD FAMILY.

### DRABA L.

**Draba verna** L. (of spring; vernal).

Whitlow or Vernal Whitlow Grass. Shad-flower.

Dry roadsides, fields and cultivated ground. Rare in northern districts: East Hartford (J. O. Goodwin), Hartford (A. W. Driggs). Occasional throughout the southern part of the state. April — May. Naturalized from Europe.

Formerly possessed some reputation for the cure of whitlow.

**Draba caroliniana** Walt.

Whitlow Grass.

Rare. Dry sterile soil: Montville and Norwich (W. A. Setchell), Waterford (Graves), East Haven (E. B. Wilson), Oxford (Harger), Kent (H. Mosher). Mid-April — May.

### BERTEROA DC.

**Berteroa incana** (L.) DC. (hoary).

Hoary Alyssum.

Rare or local. Waste places and fields: Norwich (Mrs. E. E. Rogers), Putnam (Harger), Guilford (G. H. Bartlett), East Windsor (Bissell), Plainville (J. N. Bishop), Southington (Andrews, Bissell), Naugatuck (A. E. Blewitt), Bridgeport and Westport (Eames), Wilton (Miss A. E. Carpenter). June — Aug. Adventive from Europe.

### LOBULARIA Desv. Sweet Alyssum.

**Lobularia maritima** (L.) Desv. (of the seaside).

*Alyssum maritimum* Lam.

*Koniga maritima* R. Br.

Sweet Alyssum. Sweet Allison. Madwort. Snowdrift.

Rare. Escaped from cultivation to roadsides and waste places: East Hartford (Weatherby), Southington (Andrews), Bridgeport (Eames). July — Nov. Fugitive from Europe.

**ALYSSUM L.****Alyssum alyssoides** L. (like Alyssum).*Alyssum calycinum* L.

Small Alyssum.

Rare. Roadsides and wastes in dry ground: Branford (T. M. Prudden), East Haven (Eames), New Haven (Harger), Southington (Andrews, Bissell). May—June. Fugitive or adventive from Europe.

**Alyssum saxatile** L. (growing among rocks).

Golden-tuft.

Rare. Griswold, escaped from a garden to field (E. F. Burleson). June—July. Native of Europe.

**THLASPI L.** Penny Cress.**Thlaspi arvense** L. (of cultivated land).

Field Penny or Bastard Cress. Dish, Treacle or Mithridate Mustard.

Rare. Waste places: Norwich (Mrs. E. E. Rogers), East Hartford (Weatherby), Southington and Plainville (Bissell), Waterbury (J. M. Richardson, A. E. Blewitt), Naugatuck (A. E. Blewitt), Bridgeport (J. Otis), New Milford (E. H. Austin). May—June. Fugitive or adventive from Europe.

**LEPIDIDIUM L.** Peppergrass. Pepperwort.**Lepidium virginicum** L.

Wild Peppergrass. Bird's Pepper. Tongue Grass.

Common. Dry roadsides, fields and waste grounds. June—Sept.

**Lepidium apetalum** Willd. (without petals).*Lepidium intermedium* of Gray's Manual, ed. 6.

Bird's Pepper. Tongue Grass. Wild Peppergrass.

Frequent or common. Fields and roadsides. June—Aug. Naturalized from Europe or the West.

**Lepidium ruderales** L. (growing among rubbish).

Roadside Peppergrass.

Rare. Bridgeport, in waste ground (Eames). June. Fugitive from Europe.

**Lepidium sativum** L. (sown).

Garden Cress. Garden or Golden Peppergrass. Poor Man's Pepper.

Rare. Southington, about an old garden (Andrews); Salisbury, in a poultry yard and probably introduced with grain (A. V. Osmun). June—July. Fugitive from Europe. Sometimes cultivated as a salad plant.

**Lepidium campestre** (L.) R. Br. (of fields).

Field, Bastard or Cow Cress. Mithridate Mustard. Poor Man's Pepper.

Rare or occasional. Cultivated fields, sandy roadsides and waste places. June. Adventive from Europe.

**IBERIS** L.**Iberis amara** L. (bitter).

Candytuft. Bitter or Annual Candytuft. Clown's Mustard.

Rare. Escaped from cultivation to waste places: Southington (Andrews), Bridgeport (Eames). July—Aug. Fugitive from Europe.

**CAPSELLA** Medic. Shepherd's Purse.**Capsella Bursa-pastoris** (L.) Medic. (shepherd's pouch).

*Bursa Bursa-pastoris* Britton.

Shepherd's Purse or Sprouts. Mother's Heart. Witches' Pouches.

Common. Cultivated ground, fields, roadsides and waste places. April—Oct. Naturalized from Europe.

Valued as a pot-herb because of its earliness. A bad weed in cultivated ground. Medicinal.

**CAMELINA** Crantz. False Flax.**Camelina sativa** (L.) Crantz (sown).

False or Dutch Flax. Gold-of-Pleasure. Cheat. Myagrum.

Rare. Oxford, in grain fields (Harger). June—July. Fugitive from Europe.

This, like the following species, was formerly frequent among flax, of which it was believed to be a transmuted or degenerate form.

**Camelina microcarpa** Andr. (small-fruited).*Camelina silvestris* Wallr.

False or Dutch Flax. Gold-of-Pleasure. Cheat. Myagrum.

Rare. Roadsides, grassland and grain fields: New London (Graves), Southington (Andrews), Waterbury and Naugatuck (A. E. Blewitt), Oxford (Harger), Fairfield (Eames), Litchfield (Miss E. H. Thompson, Bissell). May — July. Fugitive from Europe.

**NESLIA** Desv. Ball Mustard.**Neslia paniculata** (L.) Desv. (panicked).

Ball Mustard.

Rare. Waste ground: Bridgeport (Eames), Litchfield (Miss E. H. Thompson). June — July. Fugitive from Europe.

**CAKILE** Ludwig. Sea Rocket.**Cakile edentula** (Bigel.) Hook. (toothless).*Cakile americana* Nutt.

American Sea Rocket. Sea Cole or Rocket.

Frequent or common on the shores of the Sound and of tidal rivers and creeks. Mid-June — Oct.

**RAPHANUS** L. Radish.**Raphanus Raphanistrum** L.

Wild Radish. Jointed or White Charlock or Chadlock. Charlock. Chadlock.

Occasional, frequent or common. Cultivated ground and waste places. June — Oct. Naturalized from Europe.

Sometimes very troublesome as a weed.

**Raphanus sativus** L. (sown).

Radish. Garden Radish.

Rare. Cultivated or waste ground: Southington (Bissell, Andrews), Bridgeport and Fairfield (Eames). June — Oct. Fugitive from Europe.

**BRASSICA** L. Mustard. Turnip.**Brassica alba** (L.) Boiss. (white).*Sinapis alba* L.

White Mustard.

Rare or local. Waste places: Waterbury (A. E. Blewitt), Bridgeport, in several places and plentiful in one field (I. F. Moore, Eames). June — mid-Aug. Adventive from Europe.

The seeds are well known as a condiment and rubefacient, and are sometimes used to preserve cider in a sweet condition. Has been cultivated for at least 2000 years.

**Brassica arvensis** (L.) Kuntze (of cultivated ground).

*Brassica Sinapistrum* Boiss.

Charlock. Chadlock. Cadlock. Kedlock. Kerlock. Wild. Corn or Bastard Mustard. Field or Corn Kale.

Occasional or frequent. Waste or cultivated ground. June — July. Naturalized from Europe.

Sometimes a bad weed.

**Brassica juncea** (L.) Cosson (like *Juncus*, the Rush).

Indian or Chinese Mustard.

Cultivated fields and waste places. Frequent in the vicinity of the coast; occasional, local or rare elsewhere. June — Oct. Naturalized from Asia.

The seeds are used like those of White and Black Mustard, and the young leaves for greens. A bad weed in grain fields where it occurs.

**Brassica japonica** Siebold.

Curled or Pot-herb Mustard. California Peppergrass.

Rare. Escaped from cultivation in garden soil at Southington (Andrews). June — Sept. Fugitive from Asia.

The soft, thin leaves make excellent "greens."

**Brassica nigra** (L.) Koch (black).

Black Mustard. Cadlock. Kedlock. Kerlock.

Occasional or frequent. Waste ground and roadsides. June — Sept. Naturalized from Europe.

The young plants are sometimes used as a pot-herb. The seeds are well known as a condiment and rubefacient and are officinal.

**Brassica campestris** L. (of fields).

Rutabaga.

Occasional. Cultivated ground and waste places. Mid-May — July. Adventive from Europe.

Sometimes a bad weed. Extensively cultivated for its roots.

**Brassica Napus** L. (classical name).

Rape.

Rare. Fields and waste ground. June—July. Fugitive from Europe.

Sometimes sown for forage.

**Brassica Rapa** L. (classical name).

Turnip.

Occasional. Waste places and cultivated ground. June—July. Fugitive from Europe.

Extensively cultivated as a vegetable.

**Brassica oleracea** L. (suitable for a pot-herb).

Cabbage.

Rare. Cultivated or waste ground as an escape from cultivation. June. Fugitive from Europe.

Well known as a vegetable.

**DIPLLOTAXIS** DC.

**Diplotaxis muralis** (L.) DC. (of walls).

Sand Rocket or Mustard.

Rare. Cultivated or waste ground: Southington (Andrews & Bissell), Oxford (Harger), Stamford (W. H. Hoyt). June—Sept. Fugitive from Europe.

**Diplotaxis tenuifolia** (L.) DC. (slender-leaved).

Wall Rocket or Mustard.

Local. Plentiful in a sandy waste in Bridgeport (Eames), and about chalk piles in Stamford (W. H. Hoyt). July—Sept. Naturalized from Europe.

**CONRINGIA** Adans. Hare's-ear Mustard.

**Conringia orientalis** (L.) Dumort. (of the Orient).

Hare's-ear.

Rare. Waste places: Fairfield (Eames), New Milford (E. H. Austin). June. Fugitive from the Northwest or from Europe.

**ALLIARIA** Adans. Garlic Mustard.**Alliaria officinalis** Andr. (of the shops).*Alliaria Alliaria* Britton.*Sisymbrium Alliaria* Scop.

Hedge Garlic.

Rare. Waste ground: Chester (Mrs. S. I. Smith), Naugatuck (A. E. Blewitt), Westport (Harger). May—June. Fugitive from Europe.

**SISYMBRIUM** L. Hedge Mustard.**Sisymbrium officinale** (L.) Scop. (of the shops).

Bank Cress.

Local. Fairfield, where it is plentiful in one locality in waste ground (Eames). Mid-May—Oct. Adventive from Europe.

**Sisymbrium officinale** (L.) Scop., var. **leiocarpum** DC. (smooth-fruited).*Sisymbrium officinale* of Manuals.

Bank Cress.

Common. Fields, roadsides and waste places. Mid-May—Oct. Naturalized from Europe.

**Sisymbrium Loeselii** L.

Rare. In mill waste at Naugatuck (B. B. Bristol), New Milford (Harger & Blewitt). July. Adventive from Europe.

**Sisymbrium altissimum** L. (tallest).

Tumble Mustard.

Rare or occasional. Waste places about roadsides and along railroads. June—Aug. Adventive from Europe or the West.

**Sisymbrium canescens** Nutt. (growing hoary).*Sophia pinnata* Howell.

Tansy Mustard. Hoary Hedge Mustard.

Rare. Waste ground: Clinton (J. H. Sperry, 1884). May. Fugitive from the South.

**Sisymbrium Sophia** L.*Sophia Sophia* Britton.

Flixweed. Herb Sophia.

Rare. Naugatuck, in waste ground (A. E. Blewitt). June—Aug. Fugitive from Europe.

**Sisymbrium Thalianum** (L.) J. Gay.

*Stenophragma Thaliana* Čelak.

Thale, Mouse-ear or Wall Cress.

Rocky banks, ledges and dry or sandy fields. Rare at Norwich (Mrs. E. E. Rogers), and at East Haven (Harger); frequent along the Housatonic River at Oxford (Harger), and occasional near the coast throughout the southwestern part of the state. Mid-April—June. Naturalized from Europe.

**HESPERIS** L. Rocket.

**Hesperis matronalis** L. (suitable to a matron).

Dame's or Sweet Rocket. Damask or Dame's Violet. Summer Lilac.

Rare. Escaped from gardens to roadsides and waste places. Mid-May—July. Adventive from Europe.

**ERYSIMUM** L. Treacle Mustard.

**Erysimum cheiranthoides** L. (like Cheiranthus, the Wallflower).

Wormseed or Treacle Mustard.

Rare or local. Cultivated and waste ground or rocky woods: Southington (Andrews), East Hartford (C. C. Hammer), Waterbury (Mrs. C. H. Lyman, Jr.), Salisbury (Mrs. C. S. Phelps). June—July. Fugitive from Europe or farther west, except at Salisbury where it seems native.

**RADICULA** Hill. Water Cress.

**Radicula Nasturtium-aquaticum** (L.) Britten & Rendle (classical name).

*Nasturtium officinale* R.Br.

*Roripa Nasturtium* Rusby.

Water Cress. True Water Cress. Crashes. Brooklime.

In springs, ditches and along streams. Local and in all degrees of abundance but in general rare eastward and frequent westward. Late May—Oct. Naturalized from Europe.



Introduced as a salad plant and worthy of propagation for family use. Flowers rarely purple.

**Radicula sylvestris** (L.) Druce (of woods).

*Nasturtium sylvestre* R.Br.

*Roripa sylvestris* Bess.

Yellow Cress. Yellow Water Cress. Creeping Yellow Cress.

Local and rare to frequent or locally common. Moist ground along rivers, and in fields, roadsides and waste places; especially common in the upper Connecticut Valley. May—July, even Oct. Naturalized from Europe.

**Radicula palustris** (L.) Moench (of marshes).

*Nasturtium palustre* DC.

*Roripa palustris* Bess.

Yellow Cress. Marsh Cress.

Occasional, rare or local. Wet meadows, cultivated or waste ground, ditches and banks of streams. June—Sept.

**Radicula palustris** (L.) Moench, var. **hispida** (Desv.) Robinson (rough-hairy).

*Nasturtium palustre* DC., var. *hispidum* Gray.

*Roripa hispida* Britton.

Hairy Yellow Cress.

Occasional or frequent. Borders of streams and ponds, in ditches and wet places. June—Aug.

**Radicula Armoracia** (L.) Robinson (classical name for this species).

*Nasturtium Armoracia* Fries.

*Roripa Armoracia* Hitchc.

Horseradish.

Occasional throughout as an escape from gardens. Wet fields, waste places, roadsides and ditches. Mid-May—June. Naturalized from Europe.

Roots the source of a valued condiment.

**BARBAREA** R. Br. Winter Cress.

**Barbarea vulgaris** R. Br. (common).

*Barbarea Barbarea* MacM.

Common Winter, Bitter, Yellow, or Rocket Cress. Yellow Rocket.

Meadows, waste places and along streams, usually in moist soil. Frequent or common except in the southeastern part of the state where it is rare. May—June. Naturalized from Europe.

Sometimes used as a salad plant.

**Barbarea stricta** Andrz. (straight and upright).

*Barbarea vulgaris* R.Br., var. *stricta* Gray.

Winter Cress.

Occasional or frequent. Roadsides, waste places, fields and along streams. May—June.

**Barbarea verna** (Mill.) Asch. (of spring).

*Barbarea praecox* Sm.

Early Winter or Belle Isle Cress. Scurvy Grass.

Rare. Cultivated fields, waste places and roadsides: Waterford (Graves), New Haven and Oxford (Harger), Milford, Stratford, Bridgeport and Fairfield (Eames). May—mid-June. Adventive from Europe.

### IODANTHUS Torr. & Gray.

**Iodanthus pinnatifidus** (Michx.) Steud. (feather-cleft).

*Thelypodium pinnatifidum* Wats.

Purple Rocket.

Rare. Middletown, border of pond (M. Hitchcock, 1879). June. Fugitive from the West.

### LUNARIA L. Moonwort.

**Lunaria annua** L. (annual).

Honesty. Satin-flower. Moonwort. Money-plant.

Rare. Westport, at Green's Farms, in a dooryard but apparently self-sown (C. L. Pollard). Aug. Fugitive from Europe.

Sometimes cultivated for winter bouquets.

### DENTARIA L. Toothwort. Pepper-root.

**Dentaria diphylla** Michx. (two-leaved).

Pepper-root. Crinkle-root. Tooth-root. Toothwort.

Rich, moist, wet or springy woods, banks and more open

places. Occasional or local except near the coast in the southeastern part of the state where it has not been reported. Late April — late May.

The fresh rootstocks are sometimes eaten as a relish.

**Dentaria maxima** Nutt. (greatest).

Large Pepper-root or Toothwort.

Rare. Windsor, plentiful in rich soil on banks and alluvial bottoms beside a woodland stream (Eames). Late April — mid-May.

**Dentaria incisifolia** Eames (cut-leaved).

*Dentaria incisa* Eames, not Small.

Rare. Rich, damp, hillside woods near the Housatonic River in Sherman (E. H. Austin & Eames). Late April — mid-May.

**Dentaria laciniata** Muhl. (slashed).

Cut-leaved Pepper-root or Toothwort.

Rare or local. Moist to rather dry soil of rich woods and more or less shaded banks, throughout, but especially rare in the southeastern part of the state: Norwich (Mrs. E. E. Rogers), Old Lyme (Bissell). Mid-April — early May.

**Dentaria anomala** Eames (anomalous).

Rare. Moist, rich woods and banks: Plainville (Bissell), Orange (Harger). Late April — early May.

This species occurs at stations where *Dentaria diphylla* and *Dentaria laciniata* grow together, and is possibly a hybrid.

**CARDAMINE** L. Bitter Cress.

**Cardamine bulbosa** (Schreb.) BSP. (bulbous).

*Cardamine rhomboidea* DC.

Spring or Bitter Cress.

Wet woods and meadows. Rare near the coast in the southeastern part of the state; occasional elsewhere. Mid-May — mid-June.

**Cardamine Douglassii** (Torr.) Britton.

*Cardamine rhomboidea* DC., var. *purpurea* Torr.

*Cardamine purpurea* Britton.

*Cardamine bulbosa* BSP., var. *purpurea* BSP.

Spring or Purple Cress.

Springy places and swamps in woods or shaded situations. Rare at Newtown (I. P. Blackman, J. Pettibone); locally plentiful in New Milford, Sherman and Kent (E. H. Austin & Eames); many plants at one locality in North Canaan (Bissell). Late March — early May.

**Cardamine pratensis** L. (of meadows).

Cuckoo Flower. Ladies' Smock.

Rare. Bristol, about a garden but formerly plentiful in a meadow (W. A. Terry), Litchfield, in a lawn (Miss E. H. Thompson), Norfolk (Miss M. C. Seymour), Salisbury, margin of a lake and small stream (Mrs. C. S. Phelps). May. At least in part adventive from farther north.

**Cardamine parviflora** L. (small-flowered).

*Cardamine hirsuta* L., var. *sylvatica* of some American authors.

*Cardamine arenicola* Britton.

Small Bitter Cress.

Occasional or local. Ledges, woods or open situations in barren or sterile ground. Mid-April — June.

**Cardamine pennsylvanica** Muhl.

*Cardamine hirsuta* of Gray's Manual ed. 6 in great part.

Bitter Cress. Brook, Land or Lamb's Cress.

Frequent. About springs, along brooks and in wet shaded places. May — June.

Sometimes used as a salad plant and to some extent gathered for market.

**ARABIS** L. Rock Cress.

**Arabis lyrata** L. (lyre-shaped).

Low Rock Cress. Wall Cress.

Rocks, ledges, banks and sandy places, in dry ground. Occasional in most districts but not reported from the south-eastern part of the state. May — June.

**Arabis glabra** (L.) Bernh. (smooth).

*Arabis perfoliata* Lam.

Tower Mustard or Cress.

Rare. Fields and meadows: Norwich (W. A. Setchell), Windsor (A. W. Driggs), Farmington (Andrews & Bissell, Weatherby), Southbury and New Milford (Harger), Bridgeport (Eames). June.

**Arabis Drummondi** Gray.

*Arabis confinis* Wats., in great part.

Rare. Dry wooded hillsides: Montville, Franklin, Ledyard and Old Lyme (Graves), Lisbon (Harger), Branford (A. L. Winton), West Hartford and Bloomfield (A. W. Driggs), Canaan (C. K. Averill). May—July.

**Arabis hirsuta** (L.) Scop. (hairy).

Hairy Rock Cress. Wall Cress.

Rare. Rocky open woods and sandy ground: Old Lyme (Graves), Bolton (A. W. Driggs), Oxford (Harger), Canaan (C. K. Averill), Salisbury (Mrs. C. S. Phelps). Mid-May—early June.

**Arabis laevigata** (Muhl.) Poir. (smoothed).

Smooth Rock Cress. Wall Cress.

Rocky woods and more open places. Rare in the southeastern part of the state: Norwich (Mrs. E. E. Rogers), Franklin (Graves). Occasional or frequent elsewhere. Mid-April—May.

**Arabis canadensis** L.

Sickle-pod. Turkey-pod.

Occasional. Dry, rich, rocky and rather open woods. June—Aug.

CAPPARIDACEAE. CAPER FAMILY.

**POLANISIA** Raf.

**Polanisia graveolens** Raf. (strong-smelling).

False Mustard. Clammy-weed.

Rare. Gravelly and sandy shores of the Hockanum River at East Hartford (Weatherby), and of the Connecticut River at Hartford (A. W. Driggs). July—Aug.

**Polanisia trachysperma** Torr. & Gray (rough-seeded).

Rare. Alluvial soil, Glastonbury (Mrs. F. W. Starmer),

gravelly and sandy margin of brook, Salisbury (Mrs. C. S. Phelps & Weatherby), Sharon (H. S. Clark). Aug.—Sept. Probably introduced from the West.

### CLEOME L.

#### **Cleome spinosa** L. (prickly).

Spider-flower. Prickly Cleome.

Rare. Escaped from cultivation to waste grounds: Bridgeport and Fairfield (Eames), Norwalk (G. P. Ells). July—Sept. Fugitive from tropical America.

### RESEDACEAE. MIGNONETTE FAMILY.

#### **RESEDA** L. Mignonette. Dyer's Rocket.

#### **Reseda luteola** L. (yellowish).

Dyer's Weed, Weld, or Rocket. Yellow-weed.

Rare. Roadsides and waste places: Guilford (W. R. Dudley), New Haven (O. Harger), Monroe (H. C. Beardslee). June—July. Fugitive from Europe.

#### **Reseda lutea** L. (yellow).

Crambling Rocket.

Rare. Roadsides, fields and waste places: Preston (E. F. Burleson), East Windsor (Bissell), Bridgeport (Eames), North Canaan (M. B. Toby, Bissell), Salisbury (Mrs. C. S. Phelps, A. V. Osmun). May—June. Adventive from Europe.

#### **Reseda odorata** L. (fragrant).

Common or Garden Mignonette.

Rare. Waste ground in Southington (Andrews), and Fairfield (Eames). July—Aug. Fugitive from North Africa.

#### **Reseda alba** L. (white).

White or Upright Mignonette.

Rare. Escaped from cultivation to waste ground in Waterbury (A. E. Blewitt), and Bridgeport (Eames). July—Sept. Fugitive from Europe.

## SARRACENIACEAE. PITCHER-PLANT FAMILY.

## SARRACENIA L.

**Sarracenia purpurea** L. (purple).

Side-saddle Flower. Pitcher-plant. Huntsman's, Adam's, Indian or Water Cup. Indian Pitcher. Dumb Watches. Occasional, local or frequent. Sphagnum bogs or sometimes in wet meadows. Late May—June.

The root and leaves are medicinal.

## DROSERACEAE. SUNDEW FAMILY.

## DROSERA L. Sundew.

**Drosera rotundifolia** L. (round-leaved).

Round-leaved Sundew. Dew-plant.

Occasional or frequent. Bogs, wet meadows and sandy swamps, especially in sphagnum. July—mid-Aug.

The plant is medicinal.

**Drosera longifolia** L. (long-leaved).

*Drosera intermedia* Hayne.

*Drosera intermedia* Hayne, var. *americana* DC.

Long-leaved Sundew. Dew-plant.

Rare, local or occasional. Sphagnum bogs and swamps. Late June—Aug.

## PODOSTEMACEAE. RIVER WEED FAMILY.

## PODOSTEMUM Michx. River Weed.

**Podostemum ceratophyllum** Michx. (horny-leaved).

River Weed. Thread-foot.

On rocks, stones and gravel in shallow running water. Rare in most districts: Shetucket River in Sprague and Franklin (Graves), Killingworth (F. W. Hall), Hartford (D. C. Eaton), Windsor (Harger). Occasional in Oxford (Harger), Newtown (Eames), and throughout the southwestern part of the state. Mid-June—Aug.; fruit July—Sept.

## CRASSULACEAE. ORPINE FAMILY.

## PENTHORUM L. Ditch Stonecrop.

**Penthorum sedoides** L. (like *Sedum*, the Stonecrop).

Ditch or Virginia Stonecrop.

Frequent. Ditches, wet places and on muddy shores. July — Aug.

The plant is medicinal.

## TILLAEA L.

**Tillaea aquatica** L. (aquatic).

*Tillaea simplex* Nutt.

Pygmy Weed.

Rare or local. On tidal mud of rivers and creeks: New Haven, plentiful about the upper reaches of tidewater in Mill River, and Milford, sparingly along Beaver Creek (Eames). Mid-June — July.

## SEDUM L. Stonecrop. Orpine.

**Sedum acre** L. (acrid or biting).

Mossy or Biting Stonecrop. Golden Moss or Chain.

Local. Escaped from cultivation to roadsides, banks, rocky places and walls in all quarters of the state and plentiful at some stations. Mid-June — July. Naturalized from Europe.

**Sedum ternatum** Michx. (in threes; referring to the arrangement of the leaves).

Wild Stonecrop.

Rare. Escaped from gardens to roadsides and waste places: Guilford (W. H. Rowland), East Haddam (Weatherby), Windsor (Bissell), Cheshire and Oxford (Harger), Norfolk (Miss M. C. Seymour), Kent and New Milford (Eames & E. H. Austin), Milford (Eames), Stamford (W. H. Hoyt). May. At least in part adventive from the South.

**Sedum triphyllum** (Haw.) S. F. Gray (three-leaved).

*Sedum purpureum* Gray's Manual ed. 7.

*Sedum Telephium* Gray's Manual ed. 6, not L.

Orpine. Garden Orpine. Live-forever. Live-long. Aaron's Rod. Bag-leaves. Witches' Money-bags. Life-of-Man.



Frequent. Dry or moist roadsides, fields, thickets and about old dwellings. Aug.—Sept. Naturalized from Europe. Rarely seen in flower.

**SEMPERVIVUM** L. Houseleek.

**Sempervivum tectorum** L. (of dwellings).

Houseleek. Hen-and-chickens.

Rare. Milford, long persistent and spreading from former cultivation (Eames). July—Aug. Introduced from Europe.

## SAXIFRAGACEAE. SAXIFRAGE FAMILY.

**SAXIFRAGA** L. Saxifrage.

**Saxifraga pennsylvanica** L.

Swamp Saxifrage.

Swamps and wet meadows. Rare near the coast, occasional or frequent elsewhere. May—June.

The form with crimson petals has been collected at New Milford by Miss S. R. Armington.

**Saxifraga virginiana** Michx.

Saxifrage. Early or Spring Saxifrage. Mayflower.

Frequent or common. Ledges, banks and in rocky woods. April—early June.

A form with double flowers occurs at Kent (H. Mosher).

**TIARELLA** L. False Miterwort.

**Tiarella cordifolia** L. (having heart-shaped leaves).

Foam-flower. False Miterwort. Coolwort.

Rich, wet and often rocky woods. Rare or local in most districts: North Branford (F. W. Hall), New Haven (D. C. Eaton), Bridgeport (Eames), Torrington (Mrs. C. S. Phelps), Kent (C. K. Averill). Frequent in Granby and northern Litchfield County. May—mid-June.

A beautiful plant well worthy of cultivation. Herb medicinal.

**HEUCHERA** L. Alum Root.

**Heuchera americana** L.

Common Alum Root. American Sanicle.

Woods, banks and fence-rows. Occasional in the Housatonic Valley in Litchfield County, and frequent or locally common in the southwestern part of the state, extending eastward as far as New Haven (D. C. Eaton), Hamden (J. S. Smith), Plainville (J. N. Bishop). Late May — early July.

The roots are very astringent and are of value medicinally.

**MITELLA** L. Miterwort. Bishop's Cap.

**Mitella diphylla** L. (two-leaved).

Miterwort. Bishop's Cap. Fringe or Fairy Cup.

Moist woods and shaded banks. Frequent or locally common northward in the western part of the state; rare in northeastern Connecticut and near the coast westward; not reported from New London County. Late April — May.

A good plant for cultivation in rocky shaded places.

**Mitella prostrata** Michx. (prostrate).

Rare. Moist rich woods: New Milford, one plant only (C. K. Averill & E. H. Austin). Late April — May.

Very little is known of *Mitella prostrata*. As this plant was found growing where *Mitella diphylla* is plentiful, it is probable that the specimen represents an aberrant form of that species, even though it is a good match for the type specimen of *Mitella prostrata*.

**Mitella nuda** L. (naked).

Rare. Wet mossy woods: Litchfield (W. Buell), Winchester and Salisbury, several localities (Mrs. C. S. Phelps). May — June.

**CHRYSOSPENIUM** L. Golden Saxifrage.

**Chrysosplenium americanum** Schwein.

Water Carpet. Golden Saxifrage.

Frequent or common. Wet or swampy woods, springs and rills. Mid-March — June.

**PARNASSIA** L. Grass of Parnassus.

**Parnassia caroliniana** Michx.

Grass of Parnassus.

Bogs and wet meadows. Frequent or locally common ex-

cept in the southwestern part of the state, but not reported near the coast west of New Haven. Aug.—Sept.

Worthy of cultivation and may be grown in any sunny or partly shaded moist or wet situation. The plant is medicinal.

**PHILADELPHUS** L. Mock Orange. Syringa.

**Philadelphus inodorus** L. (without fragrance).

Large-flowered Syringa.

Rare. Escaped about an old nursery at Wethersfield (H. S. Clark & Bissell). June. Fugitive from the South.

**Philadelphus coronarius** L. (pertaining to a crown).

Syringa. Mock Orange. Orange-flower Tree.

Rare. Escaped from cultivation to roadsides and waste places: Bridgeport and Westport (Eames). June. Native of Europe.

**Philadelphus pubescens** Loisel. (downy).

Syringa.

Rare. Escaped from cultivation to pasture at Wethersfield (H. S. Clark & Bissell). June. Adventive from the South.

**DEUTZIA** Thunb.

**Deutzia scabra** Thunb. (rough).

Deutzia.

Rare. Wethersfield, escaped about an old nursery (H. S. Clark & Bissell), New London, brush lot near cemetery (Graves). June. Fugitive from Asia.

**RIBES** L. Currant. Gooseberry.

**Ribes Cynosbati** L. (classical name).

Prickly Gooseberry. Dogberry.

Rocky woods and thickets. Occasional in northern Litchfield County, extending southward as far as New Milford (Eames & E. H. Austin) and eastward to New Hartford (Bissell). It occurs also in Stafford and Tolland (A. W. Driggs). May; fruit July.

**Ribes gracile** Michx. (slender).

*Ribes missouriense* Nutt.

Missouri Gooseberry.

Rare. Roadside fence-row, Norwalk (Eames & C. C. Godfrey). May. Probably introduced from the West.

**Ribes rotundifolium** Michx. (round-leaved).

Wild Gooseberry.

Rare. Rocky woods: Meriden (W. H. Patton), Southington and Salisbury (Bissell). May—July.

**Ribes oxycanthoides** L. (Hawthorn-like).

Northern, Smooth or Wild Gooseberry.

Occasional. Rocky woods and thickets, roadsides and swamps. May.

Parent of some forms well known in cultivation.

**Ribes Grossularia** L. (*grossulus*, a small unripe fig).

*Ribes Uva-crispa* L.

Garden, Common or European Gooseberry. Teaberry.

Rare. Escaped from cultivation to roadsides, fence-rows and waste places: Stonington and Groton (Graves), Old Lyme (Bissell), Southington (Andrews & Bissell), Orange, Stratford and Fairfield (Eames), New Milford (Eames & E. H. Austin). Late April—May; fruit July. Native of Europe.

Cultivated in many kitchen gardens for its fruit, which is used for tarts and jam, or in its choicer varieties for its fine flavor uncooked.

**Ribes americanum** Mill.

*Ribes floridum* L'Hér.

Wild Black, Black or Flowering Currant. Quinsy-berry.

Occasional or frequent. Native in moist woods or thickets except in the southern part of the state, where it occurs as an escape from cultivation in fence-rows, roadsides and waste places. May—mid-June; fruit mid-July—Aug.

The fruit is edible but rather insipid.

**Ribes nigrum** L. (black).

Garden or European Black Currant.

Rare. Bethany, escaped from cultivation to waste ground (Eames). May—June. Fugitive from Europe.

**Ribes lacustre** (Pers.) Poir. (of lakes or ponds).

Swamp Black Currant. Swamp Gooseberry.

Rare. Meriden, at Lamentation Mt. (G. H. Cornwall,

1842), Salisbury, wet cold woods about Bingham Pond (Bissell). May—June.

**Ribes prostratum** L'Hér. (prostrate).

Skunk, Fetid or Mountain Currant.

Rare. Swampy woods: Colebrook (Weatherby), Norfolk (J. H. Barbour), Salisbury (Mrs. C. S. Phelps). May—June.

**Ribes vulgare** Lam. (common).

*Ribes rubrum* of Britton's Manual in part.

Garden Red or Red Currant. Wine Currant.

Occasional. Escaped from cultivation to fence-rows, roadsides and waste places throughout; also occurs in rocky woods and on borders of swamps in wild and remote places in the northern part of the state, appearing as if native in such situations, although the species is regarded as introduced in America. Late April—May; fruit mid-June—July. Naturalized from Europe.

A well known small fruit in cultivation. It is an interesting fact that in Southington the same plant is growing in the same rock crevice where it was fifty-five years ago (Andrews).

**Ribes odoratum** Wendland (fragrant).

*Ribes aureum* of authors, not Pursh.

Missouri, Buffalo, Flowering, Clove, Sweet or Golden Currant.

Rare. Escaped from cultivation to roadsides and about old houses: Montville (Graves), Scotland (G. Waldo), Oxford (Harger), Easton and Danbury (Eames). New Milford (Eames & E. H. Austin). Mid-April—May; fruit late July—Aug. Adventive from the West.

The fruit is edible. Often cultivated as an ornamental shrub.

HAMAMELIDACEAE. WITCH-HAZEL FAMILY.

HAMAMELIS L. Witch-hazel.

**Hamamelis virginiana** L.

Witch-hazel. Spotted, Witch or Snapping Alder.

Common. Moist or wet often rocky places. Sept.—Oct.

In some situations it is a valuable shrub for late-flowering

and foliage effects. The twigs were once popular as "Divining Rods" with which crafty operators were wont to impose upon the credulous. A distilled extract of the bark is extensively used as a toilet and medicinal article and is prepared in large quantities in some parts of the state. The bark, the twigs and the leaves are medicinal and are officinal.

**LIQUIDAMBAR L.** Sweet Gum Tree.

**Liquidambar styraciflua L.** (flowering with storax).

Sweet, Star-leaved or Red Gum. Bilsted.

Wet woods, fields and drier open places. South Norwalk (G. P. Ells, Bissell), and occasional or frequent westward near the shores of the of the Sound. May.

The wood is hard and close-grained but not strong; is inclined to warp and shrink badly. A beautiful tree in all stages of growth, free from injury by insects and much planted. Medicinal. The resinous exudation (liquidambar) is used in the preparation of chewing gum.

**PLATANACEAE. PLANE TREE FAMILY.**

**PLATANUS L.** Buttonwood. Sycamore.

**Platanus occidentalis L.** (western).

Buttonball. Buttonwood. Plane Tree. American or False Sycamore.

Frequent. Low grounds along streams or sometimes in drier places. May.

The wood is hard, compact and difficult to split or work: used for butcher's blocks, ox-yokes, small wares and interior finish of houses. When well grown one of our largest trees. Sometimes planted as an ornamental tree.

**ROSACEAE. ROSE FAMILY.**

**PHYSOCARPUS Maxim.** Nine-bark.

**Physocarpus opulifolius (L.) Maxim.** (maple-leaved).

*Opulaster opulifolius* Kuntze.

Nine-bark.

Rare. River shores: Norwich (Graves), Preston (W. A. Setchell, Graves). June.

## SPIRAEA L.

**Spiraea japonica** L.f.

Local. Escaped from gardens to fields and roadsides: Norwich and Preston (Mrs. E. E. Rogers), Groton (Graves & Bissell), East Haddam (Bissell), Fairfield (Eames), Stamford (W. H. Hoyt). July. Native of eastern Asia.

**Spiraea prunifolia** Sieb. & Zucc. (plum-leaved).

Bridal Wreath.

Local. Roadsides as an escape from gardens: Groton, Waterford and Montville (Graves), Southington (Bissell), Milford (Eames). June—July. Native of Asia.

**Spiraea chamaedryfolia** L. (germander-leaved), var. **ulmifolia** (Scop.) Maxim. (elm-leaved).

Roadsides and waste places as an escape from cultivation. Monroe (Eames & C. C. Godfrey), Wilton (Eames & G. P. Ells), and occasional in the southeastern part of the state (Graves). Late May—June. Native of the Old World.

**Spiraea latifolia** (Ait.) Borkh. (broad-leaved).

*Spiraea salicifolia* of Manuals in part.

Meadow-sweet. Queen of the Meadow. Bridewort. Aaron's Beard.

Frequent or common. Low wet grounds, thickets and bushy hillside pastures, or sometimes in dry ground. July—Aug.

**Spiraea tomentosa** L. (woolly).

Hardhack. Steeple Bush. Purple Hardhack.

Frequent or common. Moist fields and thickets, old pastures, or sometimes in drier places. July—Aug.

The leaves and root are medicinal.

## SORBARIA A. Br.

**Sorbaria sorbifolia** (L.) A. Br. (having leaves like Sorbus, the Mountain Ash).

*Spiraea sorbifolia* L.

Ash-leaved Spiraea.

Roadsides and waste places as an escape from cultivation. Rare in most districts: Granby and Plainville (Bissell), Ox-

ford and Seymour (Harger). Occasional through the southern part of the state. Mid-June — mid-Aug. Native of northern Asia.

### PYRUS L.

**Pyrus communis** L. (common).

Pear. Choke or Wild Pear.

Occasional. Roadsides, fields and pastures as an escape from cultivation. May. Native of the Old World.

Valued in cultivation for its fruit; also its wood is used for drawing implements, for tools, in imitation of ebony, and by the wood engraver.

**Pyrus baccata** L. (berry-bearing).

Crab Apple. Siberian Crab. Small Crab Apple.

Rare. Roadsides and river banks as an escape from cultivation: Windsor (H. S. Clark), Hampton and Hartford (Bissell), Berlin (Andrews). May. Native of the Old World.

× **Pyrus prunifolia** Willd. (plum-leaved).

Crab Apple. Large Crab Apple.

Rare. Roadsides and fields: Ledyard (Graves), Old Saybrook (Harger), Hartford (Bissell). May. Native of the Old World.

This species is supposed to be of hybrid origin, derived from a cross between *Pyrus baccata* and *Pyrus Malus*, and it is the parent of most of the forms in cultivation.

**Pyrus Malus** L. (classical name for the Apple Tree).

*Malus Malus* Britton.

Apple. Wild Apple.

Common. Fields, roadsides, pastures and borders of woods as an escape from cultivation. May. Native of the Old World.

Our most valued cultivated fruit. The wood is close-grained, hard and tough, and is used for tool handles, shoemakers' lasts and by the cabinet-maker.

**Pyrus arbutifolia** (L.) L.f. (bearing leaves like the Arbutus Tree).

*Aronia arbutifolia* Ell.



Chokeberry. Red Chokeberry. Dogberry.

Bogs and swamps or sometimes in dry situations. Rare or occasional in the southwestern part of the state from Huntington westward (Eames). May — early June; fruit Sept., often persisting through the winter.

**Pyrus arbutifolia** (L.) L.f., var. **atropurpurea** (Britton) Robinson (dark-purple).

*Aronia atropurpurea* Britton.

Chokeberry. Purple Chokeberry.

Shrubby swamps and low woods and thickets. Apparently rare in northern districts, becoming occasional or frequent near the coast. May — mid-June; fruit Sept., long persistent.

Most reports of *Pyrus arbutifolia* should be referred to this variety.

**Pyrus melanocarpa** (Michx.) Willd. (black-fruited).

*Pyrus arbutifolia* L. f., var. *melanocarpa* Hook.

*Aronia nigra* Britton.

Chokeberry. Black Chokeberry.

Occasional to common. Bogs, swamps and thickets, sometimes in dry or sterile soil, even on exposed ledges at all elevations. May — early June; Fruit Aug.— Sept.

**Pyrus americana** (Marsh.) DC.

*Sorbus americana* Marsh.

American Mountain Ash. Rowan or Service Tree. Mountain Sumac. Dogberry.

Rare or local. Swamps and about ponds or sometimes on dry ledges or in rocky woods: Stafford (A. W. Driggs, Graves), Durham and Meriden (Harger), Granby (I. Holcomb), Winchester (W. M. Shepardson), Norfolk (Miss M. C. Seymour), Canaan (Bissell), Salisbury (A. W. Driggs), Kent (E. H. Austin & Eames). May — June.

The very astringent bark and berries are employed medicinally.

**Pyrus Aucuparia** (L.) Ehrh. (used in bird-catching).

*Sorbus Aucuparia* L.

European Mountain Ash. Rowan Tree.

Rare. Escaped from cultivation to open woodland in Killingly (Bissell). June. Native of Europe.

The bark and berries are employed medicinally.

**CYDONIA** Pers. Quince.**Cydonia vulgaris** Pers. (common).*Pyrus Cydonia* L.

Common Quince.

Rare. Escaped from cultivation to waste and wet places in the southwestern part of the state. May; fruit Oct. Native of Europe.

The fruit is valued for preserving. The raw fruit and mucilaginous seeds are used in domestic medicinal practice.

**Cydonia japonica** (Thunb.) Pers.

Japan Quince.

Rare. Escaped from cultivation to a roadside in Stratford (Eames). April. Introduced from eastern Asia.

**AMELANCHIER** Medic. Juneberry.**Amelanchier canadensis** (L.) Medic.

Shad Bush. Service Berry. Sugar, Indian or May Pear.

Frequent. Dry or wet thickets, woods and banks. Mid-April — May; fruit June — early July.

The berries are edible but seldom found in good condition. The wood is heavy, very hard, close-grained and strong, and is sometimes used for tool handles and small implements.

**Amelanchier canadensis** (L.) Medic., var. **tomentula** Sarg. (woolly).

*Amelanchier canadensis* Medic., var. *Botryapium* Gray's Manual ed. 7.

Shad Bush.

Rare. Open or deep woods: Southington (Bissell), Colebrook (M. L. Fernald), New Milford and Kent (Eames), New Fairfield (Eames & C. C. Godfrey). Mid-April — May.

**Amelanchier oblongifolia** (Torr. & Gray) Roem. (oblong-leaved).

*Amelanchier canadensis* Medic., var. (?) *oblongifolia* Torr. & Gray.

*Amelanchier Botryapium* of Britton's Manual.

*Amelanchier spicata* of many authors, not K. Koch.

Shad Bush. Service Berry.

Common. Swamps, wet or dry woods, fields, sand plains

and in dry, rocky or sterile places. Late April — May; fruit June — early July.

The fruit is edible, often better than that of the previous species.

**Amelanchier oblongifolia** (Torr. & Gray) Roem., var. **micro-petala** Robinson (small-petaled).

Rare. Dry plains and in sterile places: Waterford (Graves), Southington (Bissell), Oxford and Seymour (Harger). May.

### CRATAEGUS L. Hawthorn. White Thorn.

This genus has received much attention from botanists in recent years and many new species have been proposed. More careful study of these may show that a part of them would more properly be regarded as varieties or hybrids than as true species.

Because of this uncertainty as to the proper treatment of some forms, in the following list the recognized species are given first in the group to which they belong. Following them will be found the names of any proposed species of uncertain status that may belong there, the names being printed in italics, instead of full-faced type.

#### Oxyacanthae Loud.

**Crataegus monogyna** Jacq. (having one pistil).

*Crataegus Oxyacantha* of American authors, not L.

Hawthorn. English Hawthorn. Hedge Thorn. Haw or May Tree or Bush.

Rare or local. Roadsides and old pastures. Waterford (Graves), East Hartford and West Hartford (A. W. Driggs), New Haven (Harger), Bridgeport, Fairfield and Norwalk (Eames), Stamford (W. H. Hoyt), Sharon, a great many trees over a wide area (Mrs. C. S. Phelps & Bissell). Mid-May — early June. Adventive from Europe.

Often cultivated for ornament. The berries are medicinal.

#### Crus-galli Loud.

**Crataegus Crus-galli** L. (cockspur).

Cockspur or Newcastle Thorn. Red Haw.

Pastures, roadsides and fence-rows. Occasional or fre-

quent near the coast and in the valley of the Connecticut River; rare elsewhere. Early June; fruit Oct.

The var. *EXIGUA* (Sarg.) Eggleston (small), *Crataegus exigua* Sarg., occurs in Stonington, Waterford, Lyme and East Haven (Graves) and in Southington (Andrews).

#### **Punctatae** Loud.

##### **Crataegus punctata** Jacq. (dotted).

Rare or local. Fence-rows and borders of woods: Canaan, North Canaan and Salisbury (Bissell). Early June; fruit late Sept.

Forms of uncertain status.

*Crataegus umbratilis* Sarg. (living in the shade).

Rare. Border of thickets: Litchfield (Bissell). Late May — early June; fruit late Oct.

#### **Intricatae** Sarg.

##### **Crataegus foetida** Ashe (fetid).

*Crataegus Baxteri* Sarg.

Local. Old pastures in moist, heavy soil: Windsor (Bissell). Late May; fruit early Oct.

##### **Crataegus apposita** Sarg. (apposite).

*Crataegus intricata* Sarg., not J. Lange.

*Crataegus coccinea* Britton, not L.

*Crataegus coccinea* L., var. *viridis* Torr. & Gray in part.

Occasional. Roadsides and pastures. Mid-May — early June; fruit late Sept.—early Oct.

##### **Crataegus apposita** Sarg., var. **Bissellii** (Sarg.) Eggleston.

*Crataegus Bissellii* Sarg.

Rare. Old pastures: Colchester (Graves), Southington (Andrews & Bissell), Trumbull (Eames). Late May; fruit late Sept.

##### **Crataegus coccinea** L. (scarlet).

*Crataegus coccinea* L., var. *viridis* Torr. & Gray in part.

*Crataegus modesta* Sarg.

*Crataegus premora* Ashe.

*Crataegus intricata* J. Lange.

Old pastures, fields and thickets. Rare in most districts:

Preston (Graves), Trumbull (Eames), Oxford (Harger), Southington (Andrews & Bissell). Occasional in the northern Connecticut Valley and in the northeastern part of the state. Late May — early June; fruit Oct.

**Crataegus Stonei** Sarg.

Rare. Old pasture at Southington (Andrews). Late May — early June; fruit Oct.

Forms of uncertain status.

*Crataegus Hargerii* Sarg.

Local. Fields and roadsides: Guilford (G. H. Bartlett), Southington (Andrews & Bissell), Trumbull (Eames), and frequent in Southbury, Oxford and Ansonia (Harger). Late May — early June; fruit early Oct.

Probably a form of *Crataegus appposita*.

**Rotundifoliae** Eggleston.

**Crataegus rotundifolia** Moench (round-leaved).

*Crataegus coccinea* L., var. *rotundifolia* Sarg.

*Crataegus Gravesii* Sarg.

*Crataegus Dodgei* Ashe.

Occasional or frequent. Roadsides, pastures and hedgerows. Late May; fruit late Sept.— early Oct.

**Tenuifoliae** Sarg.

**Crataegus macrosperma** Ashe (large-seeded).

*Crataegus tenella* Ashe.

Local. Moist pastures and thickets: Griswold, Franklin, Waterford and East Lyme (Graves), Stratford (Eames), Oxford (Harger). Last half of May; fruit Sept.

The var. **PENTANDRA** (Sarg.) Eggleston (having five stamens), *Crataegus pentandra* Sarg., occurs at Waterford (Graves).

The var. **DEMISSA** (Sarg.) Eggleston (hanging down), *Crataegus demissa* Sarg., is occasional throughout.

The var. **MATURA** (Sarg.) Eggleston (full-grown), *Crataegus matura* Sarg., occurs at Groton (Graves).

**Crataegus Grayana** Eggleston.

*Crataegus flabellata* Sarg., not *Mespilus flabellata* Bosc.

Rare. East Lyme (Graves). Late May; fruit Sept.

Forms of uncertain status.

*Crataegus dissimilis* Sarg. (dissimilar).

Rare. East Lyme (Graves). Last half of May; fruit late Sept.

*Crataegus Forbesae* Sarg.

Occasional in the towns of New London, Lebanon and East Lyme (Graves). Late May; fruit early Oct.

*Crataegus genialis* Sarg. (pleasant).

Rare. Thickets: Litchfield (Bissell). Late May; fruit Sept.

*Crataegus glaucophylla* Sarg. (glaucous-leaved).

Rare. Fields: Griswold (Graves), North Canaan and Cornwall (Bissell). Last half of May; fruit Sept.

*Crataegus monstrata* Sarg. (remarkable).

Locally plentiful in moist thickets in Oxford, Middlebury, Southbury and Woodbury (Harger). Late May; fruit Sept.

*Crataegus Napaea* Sarg. (of a wooded dell).

Rare. Thickets in Litchfield and Cornwall (Bissell). Late May; fruit late Sept.

*Crataegus viridimontana* Sarg. (of the Green Mountains).

Rare. Thickets: Litchfield (Bissell). Last half of May; fruit early Sept.

#### Pruinosae Sarg.

***Crataegus pruinosa*** (Wendl.) K. Koch (frosted).

Rare. Oxford, moist thicket (Harger). Late May; fruit early October.

The forma *DISSONA* (Sarg.) Eggleston (confused), *Crataegus dissona* Sarg., occurs at New London, Waterford and East Lyme (Graves), East Windsor (Bissell), Oxford (Harger), Trumbull (Eames).

***Crataegus pruinosa*** (Wendl.) K. Koch, var. *latisepala* (Ashe)

Eggleston (broad-sepaled).

*Crataegus latisepala* Ashe.

*Crataegus cognata* Sarg.

Frequent in the shore towns of New London County (Graves); occurs also at Windsor and Stratford (Bissell).

Late May — early June; fruit Oct.

***Crataegus pruinosa*** (Wendl.) K. Koch, var. *conjuncta* (Sarg.)

Eggleston (connected).

*Crataegus conjuncta* Sarg.

Rare. Pastures: Stratford (Eames), Oxford and Ansonia (Harger). Late May; fruit Oct.

**Crataegus pruinosa** (Wendl.) K. Koch, var. **Porteri** (Britton) Eggleston.

*Crataegus Porteri* Britton.

*Crataegus levis* Sarg.

Rare or local. Old pastures: Torrington and Litchfield (Bissell). Late May; fruit early Oct.

**Crataegus Jesupi** Sarg.

Rare. Fence-rows and pastures: East Windsor (Bissell). Last half of May; fruit late Sept.—early Oct.

Forms of uncertain status.

*Crataegus festiva* Sarg. (pretty).

Rare. East Lyme (Graves). Last of May; fruit Oct.

*Crataegus incisa* Sarg. (cut or notched).

Rare. Stratford, in rocky pastures (Eames). Late May—early June; fruit Oct.

*Crataegus littoralis* Sarg. (of the sea-shore).

Rare. New London, Waterford and East Lyme (Graves). Last half of May; fruit Oct.

*Crataegus Pequotorum* Sarg. (pertaining to the Pequot Indians).

Rare. Groton (Graves). Last half of May; fruit Oct.

*Crataegus quinebaugensis* Sarg.

Rare. Griswold, at Hopeville (Graves). Late May; fruit Oct.

**Coccineae** Loud.**Crataegus Holmesiana** Ashe.

Rare. Fields and roadsides: Milford (Eames), Litchfield (Bissell). Last half of May; fruit Sept.

**Crataegus Pringlei** Sarg.

Rare. Cornwall, in fields (Bissell). Mid-May; fruit Sept.

The var. **LOBULATA** (Sarg.) Eggleston (with small lobes), *Crataegus lobulata* Sarg., *Crataegus cristata* Ashe, occurs at Lyme (Graves & Bissell).

**Crataegus pedicellata** Sarg. (borne on a pedicel).*Crataegus fretalis* Sarg.*Crataegus sejuncta* Sarg.

Rare or local. Fields and roadsides: Groton (Graves), Beacon Falls, Oxford and Middlebury (Harger), Litchfield and Cornwall (Bissell). Last half of May; fruit early Sept.

**Crataegus polita** Sarg. (polished).

Rare. East Lyme (Graves). Last half of May; fruit late Aug.—early Sept.

This and the three preceding species are well shaped trees with handsome foliage, beautiful both in flower and fruit, and are well worthy of cultivation for ornament.

Forms of uncertain status.

*Crataegus Eamesii* Sarg.

Rare. Dry banks: Stratford (Eames), Ansonia (Harger). Last half of May; fruit late Aug.—early Sept.

*Crataegus neo-londinensis* Sarg.

Occasional near the coast in Groton and East Lyme (Graves). Late May; fruit early Sept.

**Molles** Sarg.**Crataegus Arnoldiana** Sarg.

Rare. East Lyme (Graves). Mid-May; fruit early Sept.

**Anomalae** Sarg.**Crataegus Brainerdi** Sarg.

In its typical form not known in Connecticut. The var. SCABRIDA (Sarg.) Eggleston (rough), *Crataegus scabrida* Sarg., occurs in thickets at Litchfield (Bissell). Late May; fruit late Sept.

**Macracanthae** Loud.**Crataegus macracantha** Lodd. (long-thorned).*Crataegus coccinea* L., var. *macracantha* Dudley.

Rare or local. Fields and pastures: East Windsor, Litchfield and Cornwall (Bissell). Late May—early June; fruit Sept.

The var. RHOMBIFOLIA (Sarg.) Eggleston (having lozenge-shaped leaves), *Crataegus rhombifolia* Sarg., occurs



at Norwich and Griswold (Graves), and at Southington (Bissell, Andrews).

Forms of uncertain status.

*Crataegus ferentaria* Sarg. (armed).

Rare. Franklin (Graves). Last half of May; fruit early Sept.

*Crataegus fulgens* Sarg. (shining).

Rare. Stratford, ledges on bank of Housatonic River (Eames). Early June; fruit late Sept.—early Oct.

*Crataegus pellucida* Sarg. (transparent).

Rare. Litchfield, in pastures (Bissell). Late May; fruit late Sept.

*Crataegus spatiosa* Sarg. (spacious; ample).

Rare. Groton (Graves). Last half of May; fruit Sept.

*Crataegus stratfordensis* Sarg.

Rare. Stratford, dry bank on the coast (Eames). Early June; fruit Sept.

## FRAGARIA L. Strawberry.

***Fragaria virginiana*** Duchesne.

*Fragaria canadensis* Michx. in part.

*Fragaria terrae-novae* Rydb.

Wild or Field Strawberry.

Common. Fields, pastures and roadsides. Late April—May.

Berries delicious. Hybrids and derivatives are common and valuable in cultivation. The leaves are medicinal.

***Fragaria virginiana*** Duchesne, var. ***illinoensis*** (Prince) Gray.

*Fragaria virginiana* Duchesne, var. *Grayana* Rydb.

Rare. Waste ground: Southington (Bissell), Oxford (Harger), Bridgeport (Eames). Apparently an escape from cultivation. Late April—May. Introduced from the West.

***Fragaria vesca*** L. (small or weak).

European Wood Strawberry.

Rare or local. Grassy places: New London and Griswold (Graves), Hartford (Bissell), Salisbury (M. L. Fernald). May—June. In Connecticut apparently naturalized from Europe.

The var. *ALBA* (Ehrh.) Rydb. (white) occurs at Southington (Bissell).

**Fragaria vesca** L., var. *americana* Porter.

*Fragaria americana* Britton.

Wild or American Wood Strawberry.

Rocky woods. Rare near the coast: Franklin and Preston (Graves), New Haven (D. C. Eaton). Frequent northward. May — June.

**DUCHESNEA** Smith. Indian Strawberry.

**Duchesnea indica** (Andr.) Focke.

*Fragaria indica* Andr.

Yellow, Indian or Mock Strawberry.

Rare. Escaped from cultivation to lawns: New London (Graves), Stratford (Mrs. R. H. Russell), Fairfield (Eames). April — Sept. Adventive from India.

Often grown in hanging-baskets for its yellow flowers and handsome but insipid berries.

**WALDSTEINIA** Willd.

**Waldsteinia fragarioides** (Michx.) Tratt. (strawberry-like).

Barren, Dry or Yellow-flowered Strawberry.

Rare. Rocky woods or thickets: Norfolk and Colebrook (H. C. Beardslee), Torrington (Miss B. A. Parker). Late April — May.

**POTENTILLA** L. Cinquefoil. Five-finger.

**Potentilla arguta** Pursh (sharp).

*Drymocallis arguta* Rydb.

Tall Cinquefoil.

Rare or local. Open sterile soil and on dry rocky hills. June — Aug.

**Potentilla monspeliensis** L.

*Potentilla norvegica* Gray's Manual ed. 6, not L.

Rough Cinquefoil.

Frequent. Fields, roadsides and waste places. June — Sept.

**Potentilla monspeliensis** L., var. *norvegica* (L.) Rydb.

*Potentilla norvegica* L.

Rare. East Granby, rocky slopes of Peak Mt. (A. W. Driggs). June—July.

**Potentilla argentea** L. (silvery).

Silvery or Hoary Cinquefoil.

Frequent to common. Dry, sterile or sandy open places. Mid-May—Sept.

**Potentilla intermedia** L. (intermediate).

Downy Cinquefoil.

Rare. Roadsides and waste ground in Glastonbury (Bissell), East Haven (Harger), Naugatuck (A. E. Blewitt). June—July. Native of Europe.

**Potentilla recta** L. (upright).

*Potentilla sulphurea* Lam.

Rare. Dry fields and wastes: Norwich (Mrs. E. E. Rogers), Southington (Andrews, Bissell), Bristol (W. A. Terry), Naugatuck (A. E. Blewitt), Newtown (J. M. Otis), Kent (Eames & C. C. Godfrey). June—July. Adventive from Europe.

**Potentilla palustris** (L.) Scop. (of marshes).

*Comarum palustre* L.

Marsh or Purple Cinquefoil or Five-finger. Bog Strawberry. Purple-wort.

Rare or local. Boggy swamps and borders of lakes: New Haven (D. C. Eaton), East Granby (Weatherby), Hamden, Litchfield and Danbury (Harger), Salisbury, plentiful about Twin Lakes (Bissell, Mrs. C. S. Phelps et al.), June—July.

**Potentilla fruticosa** L. (shrubby).

*Dasiphora fruticosa* Rydb.

Hardhack. Goshen Hardhack. Shrubby Cinquefoil.

Low fields, wet pastures and boggy swamps. Rare near the coast: East Lyme (Miss A. M. Ryon), Guilford (G. H. Bartlett), New Haven (G. W. Hawes). Occasional elsewhere, except in Litchfield County, where it is common and often a serious pest in low pastures. June—Sept.

**Potentilla tridentata** Ait. (three-toothed).

*Sibbaldiopsis tridentata* Rydb.

Three-toothed or Mountain Cinquefoil or Five-finger.

Rare or local. Exposed ledges and bleak mountain tops: Norfolk (Miss M. C. Seymour, Weatherby & Bissell), Cornwall (E. E. Brewster), Salisbury (Bissell et al.). May—July.

**Potentilla pacifica** Howell.

*Potentilla Anserina* of American authors in part, not L.

*Argentina Anserina* Rydb., var. *grandis* Rydb.

Silver Weed. Argentina. Wild Tansy.

Inner edges of salt marshes along the coast. Milford, locally plentiful (Eames), New Haven (Bissell), East Haven (Harger), Guilford (G. H. Bartlett); and common eastward. Mid-May—July.

**Potentilla pumila** Poir. (dwarf).

Frequent. Roadsides and fields. April—May.

The comparative distribution of this and the species next following has not been worked out.

**Potentilla canadensis** L.

Yellow Strawberry. Cinquefoil. Five-finger. Running Buttercup.

Common. Dry, open places, especially on hillsides. April—Aug.

**Potentilla canadensis** L., var. *simplex* (Michx.) Torr. & Gray (simple).

*Potentilla simplex* Michx.

Cinquefoil. Five-finger.

Frequent or common. Woods, fields and roadsides. May—Aug.

**FILIPENDULA** Hill.

**Filipendula rubra** (Hill) Robinson (red).

*Ulmaria rubra* Hill.

*Spiraea lobata* Gronov.

Queen of the Prairie.

Rare or local. Roadsides as an escape from cultivation: Groton and Sprague (Graves), Monroe, Trumbull and Fairfield (Eames). June—July. Naturalized from the West.

**Filipendula Ulmaria** (L.) Maxim. (Ulmus, the Elm).

*Ulmaria palustris* Moench.

*Ulmaria Ulmaria* Barnh.

*Spiraea Ulmaria* L.

Meadow-sweet. Honey-sweet. Mead-sweet. Queen of the Meadow. Meadow Queen. Bridewort. English Meadow-sweet.

Rare or local. Escaped from cultivation to roadsides and waste places: East Windsor and Southington (Bissell), Oxford (Harger), Trumbull, Norwalk and Ridgefield (Eames). July — mid-Aug. Native of Europe.

**Filipendula hexapetala** Gilib. (six-petaled).

*Spiraea Filipendula* L.

Pride of the Meadow. Dropwort.

Rare. Southington, escaped from cultivation to a roadside (Andrews). May — June. Fugitive from Europe.

### GEUM L. Avens.

**Geum canadense** Jacq.

*Geum album* J. F. Gmel.

White Avens. Herb Bennet.

Frequent or common. Woods, thickets and shaded places. Mid-June — Aug.

**Geum flavum** (Porter) Bicknell (yellow).

Cream-colored Avens.

Occasional. Rocky woods, thickets and partially shaded places. Mid-June — Aug.

**Geum virginianum** L.

Rough or White Avens. Herb Bennet. Chocolate-root.

Frequent. Wet meadows, low thickets and along streams. Mid-June — July.

**Geum strictum** Ait. (strict or straight).

Yellow or Field Avens. Herb Bennet.

Rare or local. Open swamps, wet pastures or sometimes in dry ground. Late June — mid-Aug.

**Geum rivale** L. (of brook-sides).

Purple, Water or Drooping Avens. Chocolate-root. Indian Chocolate-root.

Wet or boggy meadows. Rare near the coast: Griswold

(E. F. Burleson, Graves), Sprague (Miss Smith), Guilford (G. H. Bartlett), New Haven and Orange (D. C. Eaton). Occasional or local northward and usually plentiful where it occurs. May—June.

The root is used medicinally.

### KERRIA DC.

#### **Kerria japonica** (Thunb.) DC.

Japanese Rose. Globeflower.

Rare. Ledyard, roadside as an escape from garden (Graves). Late May—June. Introduced from eastern Asia.

### RUBUS L. Bramble.

#### **Rubus idaeus** L. (of Mt. Ida.)

European Red Raspberry.

Rare. Roadsides and fence-rows: Southington, escaped from an old garden (W. H. Blanchard), Oxford (Harger), Bridgeport, plentiful in one locality (Eames). Mid-May—June; fruit July. Adventive from the Old World.

Formerly much cultivated and represented by the Antwerp, Fontenay, etc.

#### **Rubus idaeus** L., var. **aculeatissimus** Regel & Tiling (very prickly).

*Rubus idaeus* L., var. *strigosus* Maxim.

*Rubus strigosus* Michx.

Red or Wild Red Raspberry.

Fence-rows, pastures and thickets. Rare in the coast region of the southwestern part of the state; occasional or frequent elsewhere. Mid-May—June; fruit late June—July.

Valued for its fruit in cultivation. The Cuthbert and other light red berries of gardens are of this type.

#### × ? **Rubus neglectus** Peck (neglected).

Purple Wild Raspberry.

Rare. Moist thicket: Oxford (Harger). Mid-May—June.

Thought to be a hybrid between *Rubus idaeus* var. *aculeatissimus* and *Rubus occidentalis*. The Shaffer, Gladstone and Philadelphia are cultivated forms of this species.

**Rubus phoenicolasius** Maxim. (having purple-red hairs).

Wineberry.

Rare. Escaped from cultivation to fields and roadsides: Southington (Andrews), Fairfield (Eames), Norwalk (E. H. Baldwin). June — Aug. Adventive from Japan.

Cultivated as an ornamental plant and for its fruit.

**Rubus occidentalis** L. (western).

Black Raspberry. Thimbleberry. Black-cap.

Common. Thickets, fence-rows, roadsides and pastures. Mid-May — June; fruit late June — July.

The Ohio, Gregg, etc., are cultivated forms of this species. Both wild and cultivated its fruit is valued for dessert and preserving.

The forma *PALLIDUS* (Bailey) Robinson (pale) has been found in Bridgeport (Eames) and Oxford (Harger). The Golden Queen of the gardens is a derivative of this form.

**Rubus odoratus** L. (fragrant).

Purple Flowering Raspberry.

Rocky woods. Rare near the coast; becoming occasional or frequent northward. June — Aug.; fruit Aug. — Sept.

**Rubus triflorus** Richards. (three-flowered).

*Rubus americanus* Britton.

Dwarf or Running Raspberry.

Wet, often rocky woods, and in wooded swamps. Rare near the coast; becoming occasional or frequent northward. May; fruit June.

Sometimes occurs with pink flowers.

**Rubus allegheniensis** Porter.

*Rubus villosus* Gray's Manual ed. 6 in large part, not Ait.

*Rubus nigrobaccus* Bailey.

High-bush or Mulberry Blackberry.

Common in woods, thickets and pastures in the hilly and mountainous parts of the state; occasional or local at low elevations and in sandy soil elsewhere. Mid-May — June; fruit late July — Sept.

One of our most valued wild berries and often cultivated, the Taylor being a representative. The fruit-juice and root-

bark of this and other species are valued in domestic medical practice for their astringent properties and are also officinal.

**Rubus allegheniensis** Porter, var. **Gravesii** Fernald.

Rare. Moist or dry thickets: Groton (Graves), Southington (Andrews), New Milford (Eames). June; fruit early Aug.

**Rubus frondosus** Bigel. (leafy).

*Rubus villosus* Ait., var. *frondosus* Torr.

*Rubus philadelphicus* Blanchard.

Rare or occasional. Open pastures and dry hillsides. Mid-May — June.

**Rubus pergratus** Blanchard (very pleasant).

*Rubus orarius* Blanchard.

*Rubus amnicolus* Blanchard.

Rare. Roadsides and thickets: Southington (Bissell), Winchester and Colebrook (M. L. Fernald). Late May — early June; fruit July.

**Rubus recurvans** Blanchard (recurving).

*Rubus arundelanus* Blanchard.

Fields and open woods. Occasional in the northwestern part of the state; frequent elsewhere. Mid-May — June; fruit July.

**Rubus Randii** (Bailey) Rydb.

*Rubus argutus* Link, var. *Randii* Bailey.

*Rubus recurvicaulis* Blanchard.

Woods and shaded places in moist or wet ground. Rare or occasional in central and northern Connecticut; its exact range unknown. June.

**Rubus laciniatus** Willd. (slashed).

Cut-leaved or Evergreen Blackberry.

Rare. Bridgeport, spontaneous along a sandy roadside and in an adjoining field (E. H. Baldwin). June — July. Probably native of Europe.

Cultivated for ornament.

**Rubus cuneifolius** Pursh (wedge-leaved).

Sand or Knee-high Blackberry. Ankle Brier.

Dry open sandy or sterile places. Occasional or frequent



in the southwestern part of the state, sometimes covering large areas; becoming rare northward and eastward, reaching Newtown (Eames), Southbury (Harger), Farmington (W. H. Blanchard), Glastonbury (Mrs. F. W. Starmer), Colchester (Graves). June — early July; fruit mid-July — Sept.

The fruit is delicious. The bark of the rootstock is medicinal and is officinal.

**Rubus Andrewsianus** Blanchard.

High-bush Blackberry.

Dry or moist open or shaded situations. Occasional or frequent over most of the state, but apparently absent from the mountainous areas. June; fruit mid-July — Sept.

The fruit of this species is commonly of good size and quality and is the High-bush Blackberry usually gathered in some parts of the state.

**Rubus floricomus** Blanchard (covered with flowers).

Local. Woods and pastures in heavy soils: Southington and Meriden (W. H. Blanchard). June; fruit Aug.

**Rubus setosus** Bigel. (bristly).

*Rubus nigricans* Rydb. in part.

Occasional or frequent. Usually in swamps and wet ground, but sometimes in drier places. June — July.

**Rubus nigricans** Rydb. (blackish).

*Rubus hispidus* L., var. *suberectus* Peck.

*Rubus setosus* of authors in part, not Bigel.

*Rubus vermontanus* Blanchard.

*Rubus semisetosus* Blanchard (?).

Dry hills and plains. Apparently rare or occasional, but its distribution is not known. June — July.

**Rubus hispidus** L. (rough-hairy).

Running Swamp Blackberry.

Common. Swamps, bogs, wet woods and fields, or sometimes in drier places. Mid-June — July.

**Rubus villosus** Ait. (hairy).

*Rubus canadensis* of authors, not L.

*Rubus procumbens* Muhl.

Dewberry. Running Brier. Running or Low Blackberry.

Dry, especially open situations. Frequent or common at low elevations, but rare or absent in mountainous districts. Late May — June; fruit July — Aug.

Its berries are the best of the low vines and are not excelled by those of any blackberry. The Lucretia Dewberry is a cultivated form derived from a variety of this species. Several recently proposed species not included in this list are obviously closely related to *Rubus villosus* and await further study.

**Rubus villosus** Ait., var. **humifusus** Torr. & Gray (spreading over the ground).

*Rubus Enslenii* Trattinick.

*Rubus Baileyanus* Britton.

*Rubus subuniflorus* Rydb.

Frequent or common. Dry soil in open situations, nearly throughout, but especially plentiful at low elevations and near the coast. Late May — June; fruit July — Aug.

The fruit is inferior in quality to that of the typical form of the species.

#### DALIBARDA Kalm.

**Dalibarda repens** L. (creeping).

Dalibarda.

Rare. Moist rich woods: Winchester (Andrews, Bissell), Colebrook (J. W. Robbins), Norfolk (Miss M. C. Seymour). Mid-June — mid-Aug.

#### AGRIMONIA L. Agrimony.

**Agrimonia gryposepala** Wallr. (having bent or hooked sepals).

*Agrimonia Eupatoria* Gray's Manual ed. 6 in part, not L.

*Agrimonia hirsuta* Bicknell.

Stickseed. Cocklebur. Beggar-ticks. Hairy Agrimony.

Frequent. Roadsides, thickets and borders of woods. Late June — Aug.

The plant is medicinal.

**Agrimonia striata** Michx. (grooved).

*Agrimonia Eupatoria* Gray's Manual ed. 6 in part, not L.

*Agrimonia Brittoniana* Bicknell.

Stickseed. Beggar-ticks.

Rocky woods, thickets and more open places. Rare near the coast and in the southwestern part of the state; frequent elsewhere. Late June — Sept.

**Agrimonia mollis** (Torr. & Gray) Britton (soft).

*Agrimonia pubescens* Wallr. (?)

Soft Agrimony.

Occasional or frequent. Dry woods, thickets and more open places. July — Aug.

**Agrimonia parviflora** Ait. (small-flowered).

Small or Many-flowered Agrimony.

Rare. Fairfield, edge of wet meadow (Eames), Southbury, roadside (Harger, Bissell), Salisbury (Mrs. C. S. Phelps). Aug.

**Agrimonia rostellata** Wallr. (having a little beak).

*Agrimonia striata* Bicknell, not Michx.

Woodland Agrimony.

Dry rich or rocky woods. Occasional in the southern part of the state, extending northward as far as Middletown and Southington (Bissell). July — Aug.

**SANGUISORBA** L. Burnet.

**Sanguisorba canadensis** L.

*Poterium canadense* Gray.

Canadian, Wild or Great American Burnet.

Locally plentiful along the borders of tidal marshes and about fresh-water swamps and streams near the coast; also occurs in low grounds along the Farmington River in Windsor (H. S. Clark), Farmington (Bissell), and Simsbury (A. W. Driggs); and has been collected at Berlin (J. N. Bishop). Mid-July — mid-Oct.

**Sanguisorba minor** Scop. (smaller).

*Poterium Sanguisorba* L.

*Sanguisorba Sanguisorba* Britton.

Garden or Salad Burnet. Bloodwort. Bibernel. Pimpernel. Toper's-plant.

Rare. Monroe, in dry rocky ground (H. C. Beardslee). July — Sept. Fugitive from Europe or Asia.

Formerly cultivated as a salad plant.

**ROSA L.** Rose.**Rosa setigera** Michx. (bristle-bearing).

Climbing or Prairie Rose.

Rare. Escaped from cultivation to roadsides, waste places and thickets: Voluntown (Graves), Farmington (H. S. Clark), Stratford and Bridgeport (Eames). June—July. Adventive from the West.

**Rosa blanda** Ait. (smooth).

Meadow. Thornless or Early Wild Rose.

Sandy soil. Rare in most districts: Hartford (H. J. Koehler), Milford (Andrews). Occasional along the Housatonic River from Oxford (Harger) northward. Late May—June.

**Rosa spinosissima** L. (very spiny).

Scotch or Burnet Rose.

Rare. Escaped from cultivation to roadsides in Preston and Franklin (Graves). June—July. Adventive from Europe.

**Rosa cinnamomea** L. (cinnamon-scented).

Cinnamon or Kitchen Rose.

Rare or occasional. Escaped from cultivation to roadsides and waste places near old houses; in the hills of Salisbury sometimes forming dense thickets (Bissell). June—July. Naturalized from Europe.

**Rosa rugosa** Thunb. (wrinkled).

Japanese Rose.

Rare. Milford, escaped from cultivation about old house-sites (Eames & C. C. Godfrey); occurs also at Bridgeport and Greenwich (Eames). June—Aug. Adventive from Asia.

**Rosa canina** L. (of a dog).

Dog, Canker, Hip or Brier Rose.

Rare. Pastures and roadsides: Bolton (C. C. Hanmer), Southington (Andrews). June—July. Adventive from Europe.

**Rosa rubiginosa** L. (rusty).

Sweetbrier. Eglantine. Hip or Kitchen Rose.

Occasional or frequent. Thickets, pastures and roadsides. June—July. Naturalized from Europe.

**Rosa rubiginosa** L., var. **micrantha** (Sm.) Lindl. (small-flowered.)

Small-flowered Sweetbrier.

Rare. Granby, along a roadside (H. S. Clark, Weatherby & Bissell), New Haven (A. L. Winton). June—July. Adventive from England.

**Rosa gallica** L.

French, Provence or Red Rose.

Rare. Escaped from cultivation to roadsides and about old house-sites: Ledyard and Franklin (Graves), Thompson (Bissell), Southington (Andrews, Bissell, Weatherby), Westport (Eames), Wilton (Miss A. E. Carpenter). June. Adventive from Europe.

An old-fashioned garden rose. The dried petals are medicinal and are officinal.

**Rosa nitida** Willd. (shining).

Shining or Northeastern Rose.

Rare. In swamps: Thompson (R. W. Woodward & Weatherby), Stafford (Graves). June—July.

**Rosa carolina** L.

Swamp Wild Rose.

Frequent or common. Swamps and in low ground. June—July.

**Rosa virginiana** Mill.

*Rosa lucida* Ehrh.

Wild or Large Wild Rose.

Occasional or frequent. Low grounds, banks of streams, fields and thickets. June—July.

**Rosa humilis** Marsh. (low).

Wild Rose. Dwarf, Low or Pasture Wild Rose.

Frequent or common. Pastures, thickets and open woods, often in dry ground. June—July. An apparent hybrid of this with *Rosa nitida* occurs at Stafford (Weatherby & Bissell).

**PRUNUS** L. Plum. Cherry.

**Prunus serotina** Ehrh. (late).

Wild, Rum, Whiskey or Cabinet Cherry. Wild Black Cherry.

Common. Woods, pastures, fence-rows and roadsides. Mid-May—June; fruit Aug.—Sept.

The bark is officinal under the name "*Prunus virginiana*," and is valued for its tonic as well as sedative properties, the latter due to its hydrocyanic acid, a constituent also of all other parts of the plant. The foliage of this and probably that of related species is believed to be poisonous to cattle when wilted, although harmless when fresh. The kernels of the seeds, inadvertently swallowed by children, have been fatally poisonous. The wood is light, strong, hard and close-grained, valued for cabinet work and interior finish. The tree is ornamental and worthy of planting in some situations.

***Prunus virginiana* L.**

Choke Cherry.

Thickets, woods, fence-rows and roadsides. Rare near the coast in the southeastern part of the state but frequent or common elsewhere. Mid-May—June; fruit mid-July—Aug.

***Prunus pennsylvanica* L. f.**

Wild Red Cherry. Bird, Pin or Fire Cherry.

Occasional. Found in various soils and situations, but especially in rocky woods and clearings. May; fruit July.

The wood is light, soft and close-grained.

***Prunus alleghaniensis* Porter..**

Alleghany or Mountain Plum. Sloe.

Rare. Lisbon, sandy bottoms along the Quinnebaug River, and Lyme, bank of the Connecticut River (Graves); Bridgeport, wet thicket bordering a small stream, and Monroe, hillside pasture (Eames); Southbury, roadside in sandy soil (Harger). May; fruit Aug.

***Prunus instititia* L. (grafted).**

*Prunus spinosa* L., var. *instititia* Gray's Manual ed. 6.

Damson. Bullace Plum.

Rare. Old Lyme, escaped from a hedge (Graves), Fairfield, rocky hillside (Eames). May; fruit Aug.—Sept. Adventive from Europe.

***Prunus maritima* Wang. (of the sea-coast).**

Beach Plum.

In sandy soil. Frequent or common on the shores of the Sound and about tidal streams and marshes, also occasional in dry places a few miles inland. Mid-May — mid-June; fruit late Aug.—Sept.

The fruit is sometimes gathered for preserves.

**Prunus Mahaleb** L. (Arabic name).

Mahaleb, St. Lucie or Perfumed Cherry.

Rare or local. Fields, pastures and roadsides: New London and Groton (Graves), Norwalk (E. H. Baldwin). May —June. Naturalized from Europe.

Is largely imported and used for cherry-tree stocks.

**Prunus Gravesii** Small.

Beach Plum.

Rare. Groton, gravelly ridge near the Sound (Graves). Last week in May; fruit first week in Sept.

**Prunus cuneata** Raf. (wedge-shaped).

*Prunus pumila* Gray's Manual ed. 6 in part.

Sand or Dwarf Cherry.

Sand plains and tops of rocky hills. Norwich (W. A. Setchell, Mrs. E. E. Rogers), and rare, local or occasional in the northern two-thirds of the state. May; fruit Aug.

**Prunus avium** L. (of birds).

Cherry. Sweet, Black, Bird or Mazzard Cherry.

Frequent. Roadsides, fence-rows, woods and thickets. Late April — May; fruit mid-June—July. Naturalized from Europe.

In its cultivated forms valuable for its fruit, that of the wild plants being also sometimes used. The wood is valued for cabinet work.

**Prunus Cerasus** L. (classical name for the Cherry-tree).

Sour, Pie, Red, Morello or Old-fashioned Cherry. Griottes.

Rare. Escaped from cultivation to roadsides: Ledyard, New London and Waterford (Graves), Thompson and Bristol (Bissell), Southington (Andrews, Bissell), Stratford (Eames). May; fruit July. Native of Europe.

Cultivated for its fruit.

**Prunus nigra** Ait. (black).

Wild, Canada or Horse Plum.

Rare. Norfolk, a few trees about an abandoned garden (A. W. Driggs), Oxford (Harger). May; fruit Aug.—Sept.

Has given rise to some choice fruit-bearing varieties in cultivation.

**Prunus americana** Marsh.

Wild Plum. Wild Yellow, Red or Goose Plum.

Wet or dry soils in various situations, especially along streams. Rare in southern districts, becoming occasional northward. May; fruit mid-Aug. Apparently, in part, introduced near the coast.

It is the most prolific source of cultivated native Plums suited to the cold North.

**Prunus domestica** L. (domestic).

Garden Plum.

Rare. Escaped from cultivation to roadsides and waste places: New London (Graves), Hartford (H. S. Clark & Bissell), Southington (Andrews & Bissell), Oxford (Harger), Fairfield (Eames & C. K. Averill). May; fruit Aug.—Sept. Native of the Old World.

Frequently cultivated.

**Prunus Persica** (L.) Stokes.

*Amygdalus Persica* L.

Peach.

Rare. Escaped from cultivation to roadsides, fence-rows and waste places in the southern part of the state. Late April—May; fruit Aug.—Sept. Native of Asia.

A valued fruit in cultivation. Some forms are occasionally cultivated for ornament. Medicinal.

## LEGUMINOSAE. PULSE FAMILY.

**GLEDITSIA** L. Honey Locust.

**Gleditsia triacanthos** L. (three-thorned).

Honey Locust.

Rare, occasional or local. Pastures, roadsides and fence-



rows as an escape from cultivation. May — June. Naturalized from the West or South.

The wood is coarse-grained but strong and durable. The name Honey Locust is supposed to refer to the sweetness of the pulp surrounding the seeds in the pod. Often planted for hedges or as an ornamental tree.

**CASSIA** L. Senna.

**Cassia marilandica** L.

Wild or American Senna.

Roadsides or alluvial soil, usually in moist ground. Rare or occasional in most sections, but frequent along the Housatonic River. July — Aug.

The leaves have medicinal properties like those of officinal Senna and are sometimes used as a substitute.

**Cassia Chamaecrista** L. (ground cock's-comb).

Partridge Pea.

Sandy fields and railroad banks. Common on and near the coast, extending inland as far as Glastonbury (H. S. Clark), and Seymour (Harger). July — Sept.

**Cassia nictitans** L. (winking).

Wild Sensitive Plant. Sensitive Pea.

Common. Sandy fields and dry sterile ground. July — Sept.

**CERCIS** L. Redbud. Judas Tree.

**Cercis canadensis** L.

Redbud.

Rare. Sparingly escaped about an old nursery at Wethersfield (H. S. Clark & Bissell). April. Fugitive from the South.

**BAPTISIA** Vent. False Indigo.

**Baptisia tinctoria** (L.) R. Br. (used for dyeing).

Wild Indigo. Horsefly-weed.

Common. Dry wastes, pastures, thickets and open woods in sandy or poor soils. July — Aug.

The leaves have been used as a substitute for Indigo and the young shoots are sometimes eaten like Asparagus. The roots and leaves have medicinal value.

**CROTALARIA L.** Rattle-box.**Crotalaria sagittalis L.** (shaped like an arrow-head).

Rattle-box.

Frequent to common. Dry sandy or sterile ground. July — Sept.

This plant when present in hay is known to cause serious and fatal poisoning of horses and sometimes of cattle, its mode of action being similar to that of the western Loco-weeds.

**CYTISUS L.** Broom.**Cytisus scoparius (L.) Link** (broom-like).

Scotch Broom.

Rare. Meriden, one colony by a roadside (Miss E. J. Leonard). July — Aug. Fugitive from Europe.

The dried tops are medicinal and are official.

**LUPINUS L.** Lupine.**Lupinus perennis L.** (perennial).

Wild Lupine. Blue Bean. Sundial.

Dry or sandy soil. Found nearly throughout, though very local and uneven in its distribution, but, in general, rare westward and occasional or frequent eastward. May — June.

**TRIFOLIUM L.** Clover. Trefoil.**Trifolium arvense L.** (of cultivated ground).

Rabbit-foot or Stone Clover.

Common. Dry fields and roadsides. June — Sept. Naturalized from Europe.

**Trifolium incarnatum L.** (flesh-colored).

Crimson or Italian Clover.

Rare. Fields and cultivated ground as an escape from cultivation. June — July. Fugitive from Europe.

Often grown as a cover-crop. Very brilliant when in full bloom. All the clovers, through the agency of bacterial nodules on their roots, are exceedingly valuable as storsers of nitrogen in the soil.

**Trifolium pratense L.** (of meadows).

Red, Common Red, Meadow or Pea-vine Clover.

Common. Meadows, fields and roadsides. May—June.  
Naturalized from Europe.

Extensively cultivated for fodder and for fertilizer. The blossoms are used medicinally.

**Trifolium repens** L. (creeping).

White or Honeysuckle Clover.

Common. Fields, meadows, roadsides and lawns. May—June. Probably, at least for the most part, introduced from Europe.

Valuable for pasturage, for lawns and as a honey plant. Some authorities regard this species as the true Irish Shamrock.

**Trifolium hybridum** L. (mongrel).

Alsike or Swedish Clover.

Frequent. Cultivated fields, roadsides and waste ground, usually in moist places. June—Aug. Naturalized from Europe.

Valuable for hay and as a honey plant, thriving best on heavy soils.

**Trifolium agrarium** L. (of fields).

*Trifolium aureum* at least of American authors.

Yellow or Hop Clover.

Common. Fields and roadsides. June—Aug. Naturalized from Europe. Of little value as a forage plant.

**Trifolium procumbens** L. (trailing).

Low Hop Clover.

Dry fields. Occasional to frequent near the coast; rare elsewhere. June—July. Naturalized from Europe.

**MELILOTUS** Hill. Sweet Clover.

**Melilotus officinalis** (L.) Lam. (of the shops).

Yellow Melilot or Sweet Clover.

Occasional or local. Waste places. June—Aug. Naturalized from Europe.

The leaves and flowering tops are medicinal.

**Melilotus alba** Desr. (white).

White Melilot or Sweet Clover. Bokhara Clover.

Local or frequent. Roadsides and waste places. June—Aug. Naturalized from Europe.

Sometimes grown for forage or as a honey plant. The leaves and flowering tops are sometimes used medicinally.

### MEDICAGO L. Medick.

#### **Medicago sativa** L. (sown).

Lucerne. Alfalfa.

Rare or occasional. Fields and roadsides as an escape from cultivation. June—Aug. Introduced from Europe.

In some parts of the United States of great value as a forage plant and important as a source of honey, but not often successfully grown in Connecticut.

#### **Medicago lupulina** L. (hop-like).

Hop or Black Medick. Nonesuch.

Frequent. Waste places and roadsides. June—July. Naturalized from Europe.

The seed is a common adulteration in clover seed.

#### **Medicago arabica** (L.) Huds.

*Medicago maculata* Sibth.

Spotted Medick.

Rare. New London, in cultivated ground (Graves). June—Aug. Fugitive from Europe.

#### **Medicago hispida** Gaertn. (rough-hairy).

*Medicago denticulata* Willd.

Toothed Medick. Bur Clover.

Rare. Hartford, in waste ground (H. S. Clark). Sept.—Oct. Fugitive from Europe.

### HOSACKIA Dougl.

#### **Hosackia americana** (Nutt.) Piper.

*Hosackia Purshiana* Benth.

*Lotus americanus* Bischoff.

Rare. Bridgeport, a waif in waste ground (Eames). June—Aug. Fugitive from the western United States.

### LOTUS L. Bird's-foot Trefoil.

#### **Lotus corniculatus** L. (horned).

Bloom-fell. Bird's-foot Trefoil. Ground Honeysuckle.

Rare. Fields and waste ground: Naugatuck (Mrs. C. H. Lyman & B. B. Bristol), Bridgeport (Eames). June — Sept. Adventive from Europe.

### AMORPHA L.

**Amorpha fruticosa** L. (shrubby).

False or Bastard Indigo.

Rare. Roadsides as an escape from cultivation: Middletown (Harger), Southington (Andrews), New Haven (D. C. Eaton), Hartford and Wethersfield (Bissell). May — July. Adventive from the West.

### TEPHROSIA Pers. Hoary Pea.

**Tephrosia virginiana** (L.) Pers.

*Cracca virginiana* L.

Goat's Rue. Catgut.

Rare or local. Dry sandy or rocky soils. June.

The roots are sometimes used medicinally.

### ROBINIA L. Locust.

**Robinia Pseudo-Acacia** L. (false Acacia).

Common or Black Locust. False Acacia.

Frequent. Fields and roadsides as an escape from cultivation. June. Naturalized from the South.

Cultivated for ornament and sometimes planted to cover sand-blows. The wood is hard and very durable, used for fence-posts and railroad ties. The bark of the root is medicinal.

**Robinia viscosa** Vent. (sticky).

Clammy Locust.

Occasional. Roadsides, fields and woods, usually in sandy ground. June — July. Naturalized from the South.

**Robinia hispida** L. (rough-hairy).

Rose Acacia. Flowering or Bristly Locust.

Rare. Dry or sandy roadsides as an escape from cultivation: Groton (Graves), Guilford (G. H. Bartlett), South Windsor (Weatherby), North Haven (Harger), Berlin and Southington (Andrews & Bissell), Seymour and South Nor-

walk (Eames), Salisbury (Mrs. C. S. Phelps). May—June.  
Adventive from the Southwest.

Cultivated as an ornamental shrub.

### GLYCYRRHIZA L. Liquorice.

*Glycyrrhiza lepidota* (Nutt.) Pursh (scaly).

Wild Liquorice.

Rare. New Haven, formerly well established on a roadside (D. C. Eaton); now apparently exterminated. May—Aug. Fugitive from the West.

### CORONILLA L.

*Coronilla varia* L. (variable).

Crown Vetch. Russian Clover. Axwort.

Occasional. Roadsides, waste places and in open fields as an escape from cultivation. June—Sept. Naturalized from Europe.

Very persistent and difficult to eradicate.

### DESMODIUM Desv. Tick Trefoil.

*Desmodium nudiflorum* (L.) DC. (naked-flowered).

*Meibomia nudiflora* Kuntze.

Occasional or frequent. Dry woods. July—Aug.

*Desmodium grandiflorum* (Walt.) DC. (large-flowered).

*Desmodium acuminatum* DC.

*Meibomia grandiflora* Kuntze.

Occasional or frequent. Dry rocky woods, usually in rich soil. July—Aug.

*Desmodium rotundifolium* (Michx.) DC. (round-leaved).

*Meibomia Michauxii* Vail.

Occasional or local. Dry woods and hillside thickets. July—Aug.

*Desmodium glabellum* (Michx.) DC.

*Desmodium humifusum* Beck.

*Meibomia glabella* Kuntze.

Rare. Waterford, in dry woods (Graves). Aug.

*Desmodium canescens* (L.) DC.

*Meibomia canescens* Kuntze.

Dry woods and sandy fields. Occasional or frequent in the southern half of the state and in the Connecticut Valley; rare or local elsewhere. July — Aug.

**Desmodium bracteosum** (Michx.) DC. (having conspicuous bracts).

*Desmodium cuspidatum* Hook.

*Meibomia bracteosa* Kuntze.

Dry wooded banks and in thickets. Occasional or frequent in the Connecticut Valley and in the southwestern part of the state; rare or absent elsewhere. July — Aug.

**Desmodium Dillenii** Darl.

*Meibomia Dillenii* Kuntze.

Occasional. Dry woods and thickets in either sandy or rich ground. July — Aug.

**Desmodium paniculatum** (L.) DC. (panicled).

*Meibomia paniculata* Kuntze.

Occasional or frequent. Dry woods and copses. July — Aug.

**Desmodium canadense** (L.) DC.

*Meibomia canadensis* Kuntze.

Showy Tick Trefoil.

Common. Sandy fields, roadsides and open waste places. July — Aug.

Flowers rarely pure white.

**Desmodium sessilifolium** (Torr.) Torr. & Gray (sessile-leaved).

*Meibomia sessilifolia* Kuntze.

Dry open or thinly wooded banks and sandy railroad fillings. Local or occasional in the valleys of the Thames River system: Montville, Norwich, Preston and Windham (Graves), Franklin and Bozrah (R. W. Woodward). July — Aug.

**Desmodium rigidum** (Ell.) DC. (stiff or rigid).

*Meibomia rigida* Kuntze.

Occasional or frequent. Dry banks and sandy roadsides. July — Aug.

**Desmodium obtusum** (Muhl.) DC. (blunt).*Desmodium ciliare* DC.*Meibomia obtusa* Vail.

Dry open ground and waste places. Occasional in the southern part of the state, becoming rare northward, reaching Glastonbury (Mrs. F. W. Starmer), and Manchester (Weatherby). July — Aug.

**Desmodium marilandicum** (L.) DC.*Meibomia marilandica* Kuntze.

Occasional or frequent. Dry hillsides and sandy plains. Aug.— Sept.

**LESPEDEZA** Michx. Bush Clover.**Lespedeza procumbens** Michx. (trailing).

Occasional. Dry woods or thickets in sandy or sterile soil. Aug.— Sept.

**Lespedeza repens** (L.) Bart. (creeping).

Rare. Dry woods: New Haven (R. W. Woodward). Aug.— Sept.

**Lespedeza violacea** (L.) Pers. (violet-colored).

Bush Clover.

Dry open woods. Occasional in most districts but not reported from New London County. Aug.— Sept.

**Lespedeza Nuttallii** Darl.

Rare. Dry wooded banks or in open ground, mostly in sandy soil: Lyme and Windham (Graves), Southington (Bissell), Seymour and Oxford (Harger). Aug.

**Lespedeza Stuvei** Nutt.

Dry woods and rocky banks. Occasional in the southwestern part of the state, becoming rare northward and eastward, reaching Southington (Andrews), Windsor (Bissell), and Waterford (Graves). Aug.

**Lespedeza virginica** (L.) Britton.*Lespedeza reticulata* Pers.

Rare or local. Dry sandy or rocky soil. Aug.— Sept.



**Lespedeza frutescens** (L.) Britton (shrubby).

*Lespedeza Stuevei* Nutt., var. *intermedia* Wats.

Frequent. Dry woods and sandy banks. Aug.—Sept.

**Lespedeza simulata** Mackenzie & Bush (imitating).

Rare. Dry sandy ground: Groton (Graves), Southington (Bissell). Aug.

**Lespedeza hirta** (L.) Hornem. (hairy).

*Lespedeza polystachya* Michx.

Occasional or frequent. Dry sandy soil. Aug.—Sept.

**Lespedeza capitata** Michx. (having a head, referring to the compact flower clusters).

Common. Dry fields and sandy places. Aug.

**Lespedeza capitata** Michx., var. **velutina** (Bicknell) Fernald (velvety).

*Lespedeza velutina* Bicknell.

*Lespedeza Bicknellii* House.

Dry sandy or sterile places. Rare or perhaps occasional growing with the typical form. Aug.

**CICER** L. Chick Pea.

**Cicer arietinum** L. (ram's-head, referring to the shape of the flowers).

Rare. One plant in waste ground: Waterbury (A. E. Blewitt). July. Fugitive from Europe.

**VICIA** L. Vetch. Tare.

**Vicia sativa** L. (sown).

Spring Vetch.

Rare. Waste ground as an escape from cultivation. June—Aug. Adventive from Europe.

Sometimes cultivated as a forage plant or for a cover-crop.

**Vicia angustifolia** Reichard (narrow-leaved).

Common Vetch or Tare.

Roadsides and waste ground. Rare in its typical form.

The var. **SEGETALIS** (Thuillier) Koch (of corn fields), *Vicia sativa* of Gray's Manual ed. 6, not L., is occasional or frequent near the coast, becoming rare northward. June—Aug. Naturalized from Europe.

**Vicia Faba L.** (classical name for this species).

European Garden Bean.

Rare. Waste or ballast ground: Southington (Bissell), Waterbury (A. E. Blewitt), Bridgeport (Eames). July—Sept. Fugitive from the Old World.

From prehistoric times has been cultivated for food. In the maritime provinces of Canada it is grown for fodder, but in most parts of the United States, where the summers are hot and dry, it does not thrive.

**Vicia tetrasperma (L.) Moench** (four-seeded).

Slender Vetch.

Dry grassland. Rare or local in most districts: Norwich (W. A. Setchell), Southington (Andrews), Hamden (Harger). Becoming occasional from Milford (Eames, C. K. Averill) westward along the coast. Late May—June. Naturalized from Europe.

**Vicia hirsuta (L.) S. F. Gray** (hairy).

Hairy Vetch or Tare.

Rare. Stamford, in waste ground (W. H. Hoyt). May—Sept. Fugitive from Europe.

**Vicia Cracca L.** (classical name for some leguminous plant).

Cow, Tufted or Blue Vetch.

Fields, meadows and roadsides. Frequent along the Connecticut River; rare, local or occasional elsewhere. June—Aug. For the most part introduced from the West or North or from Europe.

Inclined to be troublesome in grassland wherever established.

**Vicia villosa Røth** (hairy).

Hairy or Winter Vetch.

Rare. Borders of fields as an escape from cultivation: Southington (Andrews), Salisbury (M. L. Fernald). June—Sept. Adventive from the Old World.

Grown to a considerable extent as a cover-crop.

**LENS Hill.** Lentil.**Lens esculenta Moench** (fit for eating).

*Ervum Lens* L.

Lentil.

Rare. Waste places: Bridgeport (Eames), Stamford (W. H. Hoyt). July — Aug. Fugitive from the Old World.

This is one of the oldest, and is still one of the important food-plants for man, especially in the warmer parts of the Old World and the Orient, although but little cultivated in this country.

**LATHYRUS L.** Vetchling. Everlasting Pea.

**Lathyrus maritimus (L.) Bigel.** (of the sea).

Beach Pea.

Common on beaches and sand dunes along the coast. June — Aug.

Is found rarely with pure white flowers. The young spring shoots make an excellent pot-herb.

**Lathyrus palustris L.** (of marshes), var. **linearifolius Ser.** (very narrow-leaved).

Marsh Pea.

Local. Borders of salt marshes in Groton, Waterford and Old Lyme (Graves), Old Saybrook (Harger). June — July.

**Lathyrus latifolius L.** (broad-leaved).

Perennial or Everlasting Pea.

Rare. Escaped from cultivation to roadsides: Groton, Norwich and Preston (Graves), Guilford (G. H. Bartlett), Southington (Bissell), Bridgeport (Eames). June — Aug. Adventive from Europe.

An old-fashioned garden flower, hardy under almost all conditions of soil and light.

**Lathyrus pratensis L.** (of meadows).

Yellow Vetchling.

Rare. In grassland: Hartford, well established in and near an old cemetery (H. S. Clark). July. Adventive from Europe.

**PISUM L.** Pea.

**Pisum sativum L.** (sown).

Garden Pea.

Rare. Waste places as an escape from cultivation. June — July. Fugitive from Europe.

**Pisum sativum** L., var. **arvense** (L.) Poir. (of fields).

Field Pea.

Rare. Waste places: Bridgeport (Eames). July. Fugitive from Europe.

Sometimes grown for forage.

**APIOS** Ludwig. Groundnut. Wild Bean.

**Apios tuberosa** Moench (bearing tubers).

*Apios Apios* MacM.

Groundnut. Wild Bean.

Occasional to frequent. Moist thickets and near streams.

July — Sept.

The tubers are said to be edible.

**PHASEOLUS** L. Kidney Bean.

**Phaseolus polystachyus** (L.) BSP. (many-spiked).

*Phaseolus perennis* Walt.

Wild Bean.

Rare. Rocky woods and dry banks: Franklin (R. W. Woodward), New Haven (D. C. Eaton, R. W. Woodward), Huntington (Harger), Norwalk (Miss M. D. Lockwood, G. P. Ells, Bissell). Aug.

**Phaseolus vulgaris** L. (common).

Common or Kidney Pole Bean.

Rare. Sometimes occurs as an escape in waste ground. July — Aug. Native of Central and South America. A fugitive, not persistent here.

The var. **NANUS** (L.) Taubert (dwarf), Field or Bush Bean, rarely occurs in similar situations.

**STROPHOSTYLES** Ell.

**Strophostyles helvola** (L.) Britton (yellowish).

*Strophostyles angulosa* Ell.

Trailing Wild Bean.

Open ground in sandy soil. Common along the coast, becoming rare or local northward. Aug.—Sept.

**AMPHICARPA** Ell. Hog Peanut.**Amphicarpa monoica** (L.) Ell. (monoecious).*Falcata comosa* of American authors.

Wild or Hog Peanut.

Common. Woods and thickets, more often in rich moist soil. July — Sept.

**Amphicarpa Pitcheri** Torr. & Gray.*Falcata Pitcheri* Kuntze.

Hog Peanut.

Low woods and thickets. Southington (Andrews), Fairfield (Eames), Norwalk (Harger, Bissell), and probably occasional or local near the coast eastward. July — Sept.

## LINACEAE. FLAX FAMILY.

## LINUM L. Flax.

**Linum usitatissimum** L. (most useful).

Common Flax. Linseed.

Rare. Roadsides, fields and waste places. June — Sept. Introduced from Europe, its nativity unknown.

Well known as a cultivated plant from time immemorial; invaluable for its fibre and oil. The fibre of the inner bark is very strong and tough, is valuable for spinning, and is used in the manufacture of fine linen threads and cloths, also a great variety of coarser cords and fabrics. The seeds are the source of linseed oil, and the residue, under the name of "oil cake," is considered a valuable food for stock. Linseed meal has important medicinal uses.

**Linum sulcatum** Riddell (furrowed).

Rare. Dry ground: Granby (Bissell), New Haven, Ansonia, Oxford, Southbury and Woodbury (Harger), Milford (Eames), Kent (Weatherby), Salisbury (Mrs. C. S. Phelps). July — Aug.

**Linum striatum** Walt. (grooved).

Occasional to frequent. Moist open or shaded places. July — Aug.

**Linum virginianum** L.

Wild Yellow Flax.

Frequent. Dry woods and more open places, usually in sandy soil. July — Aug.

**Linum medium** (Planch.) Britton (intermediate).

Rare. Dry sandy fields: Waterford and Old Lyme (Graves), Ledyard (Harger), Milford (Eames). July — Sept.

## OXALIDACEAE. WOOD SORREL FAMILY.

**OXALIS** L. Wood Sorrel.**Oxalis Acetosella** L. (somewhat sour).

Common or White Wood Sorrel.

Rare or local. Rich moist woods: Granby (I. Holcomb), Barkhamsted and Colebrook (Bissell), Winchester (Andrews), Norfolk (J. H. Barbour), Salisbury (Mrs. C. S. Phelps). June — July.

This and other species of the genus contain a compound of oxalic acid, and if eaten in excess may give rise to poisoning. They are somewhat medicinal.

**Oxalis violacea** L. (violet-colored).

Violet Wood Sorrel.

Woods and moist or dry shaded places. Rare or local, but apparently well distributed throughout the state. May — June.

**Oxalis stricta** L. (straight).*Oxalis corniculata* L., var. *stricta* of Gray's Manual ed. 6 in part.

Yellow Wood Sorrel.

Fields, roadsides and sandy places. Rare or local in northern districts, becoming frequent near the coast. May — Sept.

**Oxalis filipes** Small (with thread-like stems).*Oxalis Brittoniae* Small.

Slender Yellow Wood Sorrel.

Rare or local. Dry fields and roadsides: Farmington (H. S. Clark &amp; Bissell), Newington, Litchfield and Cornwall (Bis-

sell), Orange (Eames), Southbury (Harger), Salisbury (M. L. Fernald). May — Sept.

**Oxalis corniculata** L. (horned).

*Oxalis corniculata* L., var. *stricta* of Gray's Manual ed. 6 in part.

*Oxalis stricta* of many authors, not L.

*Oxalis Bushii* Small.

*Oxalis rufa* Small.

*Oxalis cymosa* Small.

Lady's Sorrel. Tall Yellow Wood Sorrel.

Common. Woods and fields in various soils and situations.

May — Sept.

**Oxalis repens** Thunb. (creeping).

*Oxalis corniculata* L. in part, and of many later authors.

Rare or local. Florist's grounds, greenhouses and street gutters: New London (Graves). May — June. A cosmopolitan species, in Connecticut probably adventive from Europe.

## GERANIACEAE. GERANIUM FAMILY.

### GERANIUM L. Cranesbill.

**Geranium maculatum** L. (spotted).

Wild Cranesbill.

Common. Fields, roadsides and woods. May — June.

The very astringent root is medicinal and is officinal.

**Geranium pratense** L. (of meadows).

Meadow Geranium or Cranesbill.

Rare. Naugatuck, in waste ground (B. B. Bristol). July.

Fugitive from Europe.

**Geranium Robertianum** L.

Herb Robert. Red Robin.

Rocky ledges, usually in shade. Rare in eastern districts, becoming occasional or frequent westward. May — Sept.

**Geranium carolinianum** L.

Occasional. Rocky woods, dry fields and waste ground.

May — July.

**Geranium pusillum** Burm. f. (very small).

Small-flowered Geranium or Cranesbill.

Rare. In lawns and grasslands: New Haven (Harger), Bridgeport (Eames), Monroe (H. C. Beardslee), Litchfield (Miss E. H. Thompson). June—July. Adventive from Europe.

**Geranium dissectum** L. (finely cut).

Cut-leaved Geranium or Cranesbill.

Rare. Oxford, in newly seeded ground (Harger). June. Fugitive from Europe.

**Geranium molle** L. (soft).

Dove's-foot Geranium or Cranesbill.

Rare. Lawns and cultivated ground: Southington (Andrews), Stratford (Mrs. R. H. Russell), Bridgeport (Eames), Litchfield (Miss E. H. Thompson). May—June. Fugitive from Europe.

**ERODIUM** L'Hér. Storksbill.**Erodium cicutarium** (L.) L'Hér. (like *Cicuta*, the Poison Hemlock).

Storksbill. Heron's-bill.

Rare. Waste ground: New London (Graves), Norwich (Mrs. E. E. Rogers), Glastonbury (Mrs. F. W. Starmer), Bridgeport (Miss A. E. Carpenter), Norwalk (G. P. Ells). May—June. Fugitive from Europe.

**Erodium moschatum** (L.) L'Hér. (smelling of musk).

Musk Erodium or Storksbill.

Rare. Hartford, in waste grounds (H. S. Clark). Sept. Fugitive from Europe.

**RUTACEAE. RUE FAMILY.****ZANTHOXYLUM** L. Prickly Ash.**Zanthoxylum americanum** Mill.

Northern Prickly Ash. Prickly Ash. Toothache Tree.

Thickets, fence-rows or open fields, often in rocky ground. Rare in the southeastern part of the state, becoming occasional northward and westward and frequent in Litchfield



County. April—May. Probably southward largely an escape from cultivation.

The bark is medicinal and is officinal; the berries are also sometimes used medicinally.

**PTELEA** L. Shrubby Trefoil. Hop Tree.

**Ptelea trifoliata** L. (three-leaved).

Shrubby Trefoil. Hop Tree.

Rare. Roadsides and waste places as an escape from cultivation: Southington (Andrews), Seymour (Harger), Ansonia (C. K. Averill), Woodbury (Eames), Huntington (Eames & C. C. Godfrey), Litchfield (Miss E. H. Thompson). June. Adventive from the West.

The bark of the root, the leaves and the fruit are medicinal.

## SIMARUBACEAE. QUASSIA FAMILY.

**AILANTHUS** Desf. Tree of Heaven.

**Ailanthus glandulosa** Desf. (glandular).

Ailanthus. Tree of Heaven.

Occasional. Waste places, fence-rows and along roadsides. June; fruit Oct. Naturalized from China.

A tree of rapid growth, well adapted to cultivation. It propagates freely from seed and from root suckers and readily accommodates itself to any soil. It was formerly supposed to counteract malarial influences arising from the soil in which it grew. The staminate tree, however, on account of its disagreeable odor when in flower, is not desirable. The bark is medicinal.

## POLYGALACEAE. MILKWORT FAMILY.

**POLYGALA** L. Milkwort.

**Polygala paucifolia** Willd. (few-leaved).

Fringed Polygala. Flowering Wintergreen.

In woods, usually in light soil. Rare in New London County, frequent elsewhere. May—June.

A form with white flowers has been found at New Milford (C. K. Averill).

**Polygala polygama** Walt. (polygamous).

Milkwort.

Local or occasional. Dry sandy ground, often on sand plains. July — Aug.

A form with white flowers occurs at Milford (Eames).

**Polygala Senega** L. (from Seneca Indians).

Seneca or Senega Snakeroot.

Rare. Kent, a small colony in thinly shaded, dry and poor soil on the bank of the Housatonic River (C. K. Averill & E. H. Austin); occurs also at New Milford (C. D. Bishop). May — June.

The plant is valued medicinally and is officinal.

**Polygala sanguinea** L. (blood-red).*Polygala viridescens* L.

Purple Milkwort.

Common. Moist or sometimes dry fields, pastures and thin woods. July — Sept.

Occurs occasionally with white flowers.

**Polygala Nuttallii** Torr. & Gray.

Rare or local. Open ground in sandy soil: Groton (Graves), Cheshire and Southington (Andrews), Plainville (Bissell). July — Aug.

**Polygala cruciata** L. (cross-shaped).

Open swamps and wet meadows. Occasional or frequent near the coast, but rare or wanting inland. July — Sept.

**Polygala verticillata** L. (whorled).

Whorled Polygala.

Common. Dry or sterile fields. July — Aug.

**Polygala verticillata** L., var. **ambigua** (Nutt.) Wood (doubtful).*Polygala ambigua* Nutt.

Apparently rare. Dry places, growing with the typical form. The distinctions between this variety and the species have been little recognized, and its distribution is not known. July — Aug.

## EUPHORBIACEAE. SPURGE FAMILY.

## CROTONOPSIS Michx.

**Crotonopsis linearis** Michx. (very narrow; referring to the leaves).

Local. Sandy fields and wastes: Milford, plentiful in one locality (Eames). July — Sept.

## ACALYPHA L. Three-seeded Mercury.

**Acalypha virginica** L.

Frequent or common. Open woods, fields and meadows. July — Sept.

Sometimes a weed in lawns and cultivated ground.

**Acalypha gracilens** Gray (slender).

*Acalypha virginica* L., var. *gracilens* Muell. Arg.

Frequent. Dry fields and roadsides. July — Sept.

## RICINUS L. Castor-oil Plant.

**Ricinus communis** L. (growing in colonies).

Castor-oil Plant.

Rare. A fugitive in waste grounds in Bridgeport and Fairfield (Eames). Sept. — Oct. Native of India or Africa.

Cultivated for ornament. The oil expressed from the seeds is medicinal and is officinal.

## EUPHORBIA L. Spurge.

**Euphorbia polygonifolia** L. (having leaves like Polygonum, the Knotweed).

Seaside Spurge.

Frequent along the coast on sea beaches and sand dunes. July — Sept.

**Euphorbia Preslii** Guss.

*Euphorbia nutans* of Britton's Manual.

Occasional or frequent. Fields and roadsides, especially in sandy soil. July — Sept.

The plant has medicinal properties and is locally known as Fluxweed. All species of the genus are more or less medicinal and some are strong irritants.

**Euphorbia hirsuta** (Torr.) Wiegand (hairy).

Frequent or common. Sandy soil along roadsides and in waste places. July — Sept.

**Euphorbia maculata** L. (spotted).

Milk Purslane.

Frequent. Sandy fields, roadsides and waste places. July — Sept.

**Euphorbia marginata** Pursh (having a distinct border).

Snow-on-the-Mountain.

Rare. Waste ground: Bridgeport (Eames). Aug. — Sept. Adventive from the West.

Often cultivated for ornament.

**Euphorbia corollata** L. (having a corolla).

Flowering Spurge.

Rare. Fields and waste ground: Norwich (Mrs. E. E. Rogers), Milford (Eames), Oxford (Harger). May — Aug. Adventive from the South or West.

The root is medicinal.

**Euphorbia Ipecacuanhae** L. (Brazilian Indian name).

Wild Ipecac. Ipecac Spurge.

Rare. There is in the Herbarium of the Boston Natural History Society a specimen of this plant collected at East Windsor by Dr. M. M. Reed. It has no date, but from what is known of Dr. Reed it must have been collected between 1825 and 1830; not otherwise reported from the state. May — Oct.

The root is medicinal. All species of spurge yield a very acrid, milky juice which is irritant to the skin. Domestic animals are sometimes poisoned by eating these plants, and the milk of such animals is also rendered poisonous.

**Euphorbia Esula** L. (Pre-Linnean name for certain species of spurge).

Faitour's Grass. Leafy Spurge.

Rare. Fields and waste ground: New London (Graves), Manchester (A. W. Driggs), Norwalk (G. P. Ells). May — June. Adventive from Europe.

**Euphorbia Cyparissias** L. (classical name for some species of spurge).

Cypress Spurge. Spurge.

Occasional. Roadsides and fields as an escape from cultivation, usually near dwellings or old cemeteries. June. Naturalized from Europe.

The plant yields a yellow dye.

**Euphorbia Peplus** L. (classical name for this species).

Petty Spurge.

Rare. New London, well established in one yard for at least twelve years (Graves). June — Oct. Adventive from Europe.

**Euphorbia Lathyrus** L. (classical name for some spurge).

Caper or Myrtle Spurge. Mole Plant.

Rare. Waste ground: well established in Trumbull and Bridgeport (Eames). July — Aug. Adventive from Europe.

## CALLITRICHACEAE.

### WATER STARWORT FAMILY.

**CALLITRICHE** L. Water Starwort.

**Callitriche deflexa** A. Br. (bent downward), var. **Austini** (Engelm.) Hegelm.

*Callitriche Austini* Engelm.

Moist shaded ground, usually in cart paths and little used roads. Local or occasional except near the coast eastward, where it is not reported. June — Aug.

**Callitriche palustris** L. (of marshes).

*Callitriche verna* L. in part.

Pools and slow running streams. Guilford (G. H. Bartlett), Windsor (Bisseli), and occasional or frequent westward. June — Sept.

**Callitriche heterophylla** Pursh (various-leaved).

Ponds and slow running streams: Woodstock (Weatherby & Harger), East Hartford (A. W. Driggs), Southington (Andrews, Bissell), and occasional or frequent in the vicinity of the coast. June — Sept.

## LIMNANTHACEAE.

## FALSE MERMAID FAMILY.

## FLOERKEA Willd. False Mermaid.

*Floerkea proserpinacoides* Willd. (like *Proserpinaca*, the Mermaid-weed).

Rare. Damp shaded ground: North Haven (A. H. Graves), Orange (Eames & C. C. Gadfrey), Oxford (G. H. Bartlett), Southbury (Harger). May.

## ANACARDIACEAE. CASHEW FAMILY.

## RHUS L. Sumach.

*Rhus typhina* L. (like *Typha*, the Cat-tail).

*Rhus hirta* Sudworth.

Staghorn Sumach.

Occasional. Open fields, thickets and fence-rows. June.

The bark and berries have properties similar to those of *Rhus glabra*.

*Rhus glabra* L. (smooth).

Smooth Sumach.

Frequent or common. Pastures and roadsides, usually in dry ground. June.

Sometimes forms troublesome colonies by its running root-stocks. The leaves and bark are sometimes used in tanning. Galls found on its leaves are very astringent and are used as a substitute for the imported galls. All species of the genus are handsome, especially in their autumnal foliage, and the innocuous species are particularly ornamental when grown in suitable places.

*Rhus copallina* L. (producing copal).

Dwarf, Black or Shining Sumach.

Occasional, frequent or common. Pastures and rocky woods. July — Aug.

The bark and leaves have properties similar to those of *Rhus glabra*.

*Rhus Vernix* L. (varnish).

*Rhus venenata* DC.

Poison Sumach, Dogwood or Elder.

Swamps and wet ground or sometimes in drier places. Occasional in most districts, becoming frequent near the coast. June—July.

All parts of the plant are poisonous to the touch, etc., as in the following species, only more actively so.

**Rhus Toxicodendron** L. (poison tree).

Poison Ivy, Oak or Vine. Mercury. Marcury.

Frequent or common. Fence-rows, fields, woods and meadows, in either moist or dry ground, often climbing trees and posts. May—June.

The var. **RADICANS** (L.) Torr. (rooting), *Rhus radicans* L., is often more plentiful than the typical form.

A pernicious shrub or vine that is far too plentiful. To most persons all parts of the plant at all seasons are poisonous to the touch; and its exhalations, even at some distance, are equally poisonous to some, especially in a humid atmosphere or during free perspiration. The poisonous principle is believed to be a peculiar oil which is present in all parts of the plant and which in the minutest quantity is intensely irritant. Cattle and horses are not affected by it. The leaves are valued medicinally and were formerly officinal.

**Rhus canadensis** Marsh.

*Rhus aromatica* Ait.

Sweet-scented Sumach.

Rare. Guilford, on a small outcrop of rock in a salt marsh (G. H. Bartlett). May.

The bark of the root is an active medicinal agent.

**AQUIFOLIACEAE. HOLLY FAMILY.**

**ILEX** L. Holly.

**Ilex opaca** Ait. (opaque).

American Holly.

Rare. Roadsides and thickets: Waterford (Miss A. H. Morgan), Milford (J. D. Dana), Wolcott (H. J. Bassett). May—June; fruit Oct., lasting into the winter. Escaped from cultivation or possibly native.

Plentiful in parts of the South, where it is extensively

gathered for use in Christmas decorations. The leaves and bark are medicinal.

**Ilex verticillata** (L.) Gray (whorled).

Black Alder. Winterberry.

Common. Moist woods and swamps, or sometimes in drier places. June—July.

The berries turn brilliant red in autumn and continue on the bushes far into the winter. The bark and berries are used medicinally.

**Ilex verticillata** (L.) Gray, var. **tenuifolia** (Torr.) Wats. (thin-leaved).

*Ilex bronxensis* Britton.

Winterberry.

Low grounds, growing with the species. Frequent in southwestern Connecticut (Eames); occasional about New London (Graves). Rare elsewhere: Southington (Andrews), Litchfield (Bissell). June—July.

**Ilex verticillata** (L.) Gray, var. **padifolia** (Willd.) Torr. & Gray (having leaves like *Padus*, the Cherry).

Winterberry.

Occasional. Low woods and swamps, growing with the species. June—July.

**Ilex laevigata** (Pursh) Gray (smoothed).

Smooth Winterberry.

Swamps and wet woods. Rare in the northern and western parts of the state: South Windsor and Litchfield (Bissell), Monroe and Middlebury (Harger), Salisbury (Mrs. C. S. Phelps). Occasional in southeastern Connecticut, chiefly in White Cedar swamps (Graves). June; fruit Sept.

**Ilex glabra** (L.) Gray (smooth).

Inkberry.

Local. In and about swamps: Voluntown (Harger), Groton, New London and Waterford (Graves), Guilford (W. R. Dudley). June.

**NEMOPANTHUS** Raf. Mountain Holly.

**Nemopanthus mucronata** (L.) Trel. (having a short abrupt point).



*Nemopanthes fascicularis* Raf.

*Ilicioides mucronata* Britton.

Mountain Holly.

Low woods and shaded swamps. Rare near the coast, becoming occasional or frequent northward. May.

## CELASTRACEAE. STAFF TREE FAMILY.

**EVONYMUS** L. Spindle Tree.

**Evonymus atropurpureus** Jacq. (dark purple).

Burning Bush. Waahoo. Indian Arrow-wood.

Rare. Escaped from cultivation to roadsides and fence-rows: Southington (Weatherby & Bissell), Milford (Eames & C. C. Godfrey), Stratford, Bridgeport and Easton (Eames). June—July; fruit Sept.—Oct. Adventive or fugitive from the West.

Planted for ornament. The bark of the root is medicinal and is officinal.

**Evonymus alatus** (Thunb.) Rupr. & Maxim. (winged).

Rare. Escaped from cultivation to roadsides: Plainfield (Weatherby & Bissell), Milford (Eames), Oxford, Huntington and Monroe (Harger). June—July. Adventive from eastern Asia.

Planted for ornament.

**Evonymus europaeus** L.

European Spindle Tree.

Rare. Escaped from cultivation to roadside in Stratford (Eames), and Bridgeport (Miss A. E. Carpenter). June—July. Adventive from Europe.

Planted for ornament.

**CELASTRUS** L. Staff Tree. Shrubby Bitter-sweet.

**Celastrus scandens** L. (climbing).

Waxwork. Climbing Bitter-sweet.

Frequent. Thickets, fence-rows and along streams. May—June; fruit Sept.—Oct., persisting into the winter.

The dried pods are often gathered for home decorations. A highly ornamental plant and worthy of cultivation. The bark of the plant and root are medicinal.

## STAPHYLEACEAE. BLADDER NUT FAMILY.

## STAPHYLEA L. Bladder Nut.

*Staphylea trifolia* L. (three-leaved).

American Bladder Nut.

Rocky woods and thickets. Rare in New London County, occasional elsewhere. Late May; fruit Aug.—Sept.

Desirable to plant as an ornamental shrub.

## ACERACEAE. MAPLE FAMILY.

## ACER L. Maple.

*Acer pennsylvanicum* L.

Striped Maple. Moosewood.

Rocky woods in rich soil. Occasional in the northwestern part of the state, becoming rare eastward and southward, reaching Ashford (Bissell), East Haddam (Graves), Huntington and Redding (Eames). May.

An attractive tree at all seasons of the year.

*Acer Pseudo-platanus* L. (simulating *Platanus*, the Plane Tree).

Sycamore Maple.

Rare. Sparingly escaped from an old nursery to a pasture at Wethersfield (H. S. Clark & Bissell). May. Introduced from Europe.

Sometimes planted as an ornamental tree.

*Acer spicatum* Lam. (spiked).

Mountain Maple.

Cool, rocky woods. Occasional in the northern part of the state, becoming rare southward, reaching East Haddam (Graves), Guilford, at Bluff Head (G. H. Bartlett), Meriden (D. C. Eaton), Redding (Eames & C. C. Godfrey). May.

*Acer saccharum* Marsh. (sugar).

*Acer saccharinum* Wang., not L.

Sugar or Rock Maple.

Rocky woods, roadsides and fence-rows. Frequent or common in northern districts, becoming rare near the coast, except as an escape from cultivation. May.

A popular shade tree, very common in cultivation. Very valuable for its wood, which is extensively used in cabinet work, for floors and for fuel. "Bird's-eye Maple" is of this species. It is also the source of genuine maple sugar. The autumnal foliage is very brilliant.

**Acer saccharum** Marsh., var. **nigrum** (Michx. f.) Britton (black).

*Acer saccharinum* Wang., var. *nigrum* of Gray's Manual ed. 6.

*Acer nigrum* Michx. f.

Black Sugar Maple.

Rare. Roadside as an escape from cultivation: Salisbury (Mrs. C. S. Phelps). May. Adventive from the North or West.

**Acer platanoides** L. (like *Platanus*, the Plane Tree).

Norway Maple.

Rare. Escaped from cultivation to roadside thickets in Hartford (H. S. Clark & Bissell). May. Adventive from Europe.

Frequent and well known in cultivation.

**Acer saccharinum** L. (sugary).

*Acer dasycarpum* Ehrh.

White, Silver or Soft Maple.

River banks and swamps. Frequent inland along the larger streams; rare elsewhere. March—April, rarely earlier.

Often planted for shade or ornament.

**Acer rubrum** L. (red).

Red, Swamp or Soft Maple.

Common. Swamps, low woods or sometimes in dry ground. March—April.

The wood is largely used in the manufacture of furniture and wooden ware and for fuel. A beautiful tree at all seasons and one of the most brilliant in spring and fall; it is worthy of much more extensive cultivation. The bark is medicinal.

**Acer Negundo** L. (an Indian name).

*Negundo aceroides* Moench.

Box Elder. Ash-leaved Maple.

Rare or local. River banks or roadsides. Apparently native along the Housatonic River from Oxford (Harger) to Salisbury (Mrs. C. S. Phelps); escaped from cultivation at Putnam (Harger), Groton (Graves), Southington (Andrews), Wethersfield (Bissell), and Norwalk (Miss A. E. Carpenter). April — May.

It is a rapid grower, thriving best in moist ground. Often planted as a shade tree and in the West grown for wind-breaks.

## SAPINDACEAE. SOAPBERRY FAMILY.

### CARDIOSPERMUM L.

**Cardiospermum Halicacabum** L. (classical name).

Balloon Vine. Heart-seed.

Rare. Escaped from gardens to waste ground in Bridgeport (Eames). Oct. Fugitive from the Tropics.

**AESCULUS** L. Horse-chestnut. Buckeye.

**Aesculus Hippocastanum** L. (horse-chestnut).

Common Horse-chestnut.

Rare. Southington, escaped from cultivation to a fence-row (Andrews). June. Native of Asia.

Extensively planted for shade or ornament.

## BALSAMINACEAE. TOUCH-ME-NOT FAMILY.

**IMPATIENS** L. Balsam. Jewelweed.

**Impatiens pallida** Nutt. (pale).

*Impatiens aurea* Muhl. (?)

Pale Touch-me-not.

Damp, rocky woods. Rare in most districts, becoming occasional in the northwestern part of the state. July — Sept.

The herb possesses the same properties as the following species.

**Impatiens biflora** Walt. (two-flowered).

*Impatiens fulva* Nutt.

Spotted Touch-me-not. Snap-weed. Silver Weed.

Common. Moist or wet, mostly shaded places. July—Sept.

A form with pale yellow flowers occurs at Thompson (Weatherby & Bissell).

The plant bears cleistogamous fertile flowers in the earlier stages of its growth. Medicinal; it is said also to be efficacious in relieving the effects of poisoning by species of *Rhus* and stinging nettles.

## RHAMNACEAE. BUCKTHORN FAMILY.

### RHAMNUS L. Buckthorn.

#### *Rhamnus alnifolia* L'Hér. (alder-leaved).

Dwarf Alder.

Rare or local. In swamps: Litchfield (Weatherby & Bissell), Cornwall (E. E. Brewster), Norfolk (Bissell), Salisbury (M. L. Fernald), East Granby (Harger). May.

#### *Rhamnus cathartica* L. (cathartic).

Common Buckthorn.

Rare or local. Escaped from cultivation to roadsides and pastures: Stonington, Lebanon, Woodstock and Stafford (Graves), Norwich (Mrs. E. E. Rogers), Middletown (J. D. Cochrane), East Hartford (C. C. Hanmer), Waterbury (A. E. Blewitt), New Milford and Kent (C. K. Averill), Cornwall and Norfolk (Bissell), Salisbury (Mrs. C. S. Phelps). May—June. Naturalized from Europe.

A good hedge plant. The berries and bark are actively cathartic. Another species of this genus, *Rhamnus Purshiana* DC. of western North America, furnishes the well known *Cascara sagrada*.

### CEANOTHUS L. Red-root.

#### *Ceanothus americanus* L.

New Jersey Tea. Red-root.

Common. Dry, open woods and fields in sterile soil. June—July.

The leaves are said to have been used during the American revolution as a substitute for tea. The root and leaves were formerly used for dyeing wool red. Medicinal.

## VITACEAE. VINE FAMILY.

**PSEDERA** Neck. Virginia Creeper. Woodbine.

**Psedera quinquefolia** (L.) Greene (five-leaved).

*Ampelopsis quinquefolia* Michx.

*Parthenocissus quinquefolia* Planch.

Woodbine. American Ivy.

Frequent or common. Woods, thickets and fence-rows.  
June.

Often cultivated, and very attractive as an ornamental plant, especially in autumnal foliage. The bark and young twigs have medicinal properties.

**Psedera quinquefolia** (L.) Greene, var. **hirsuta** (Donn) Rehder (hairy).

Woods and thickets. Occasional or frequent in Litchfield County, not reported elsewhere. June.

**Psedera vitacea** (Knerr) Greene (like *Vitis*, the Grape).  
Woodbine.

Woods and thickets. Apparently occurs in most parts of the state, but its exact distribution and frequency are not known. June.

**VITIS** L. Grape.

**Vitis labrusca** L. (classical name).

Northern Fox Grape. Fox or Skunk Grape.

Frequent or common. Woods, swamps and thickets.  
June; fruit mid-Aug.—Sept.

The fruit is often gathered for making jelly and preserves. The cultivated Isabella, Catawba, Concord and Brighton grapes are derived from this species, and it is the parent of the greater part of American cultivated grapes. Rarely occurs with fruit amber-green or reddish brown in color. The Niagara and some other so-called White Grapes are derivatives of this form.

**Vitis aestivalis** Michx. (belonging to summer).

Summer, Pigeon or Bunch Grape.

Frequent or common. Woods and thickets. June; fruit Sept.—Oct.

Hybridizes to some extent with *Vitis labrusca* and is next

in importance to that species as a source of cultivated varieties. Its derivatives are largely wine grapes.

**Vitis bicolor** Le Conte (two-colored).

Summer or Blue Grape.

Rare. In thickets: Southington and Colebrook (Bissell). June; fruit Sept.—Oct.

**Vitis vulpina** L. (pertaining to a fox).

*Vitis riparia* Michx.

River-bank or Frost Grape.

Frequent on banks of rivers and streams; rare or occasional in other situations. June; fruit Sept.—Oct.

The leaves, tendrils and fruit are somewhat medicinal, as are those of other species of the genus.

## TILIACEAE. LINDEN FAMILY.

**TILIA** L. Linden. Basswood.

**Tilia americana** L.

Basswood. American Linden. Whitewood.

Occasional. Woods, fence-rows and fields. June—July.

The wood is light, white and soft, but is durable, and well adapted for carriage bodies, cabinet work, interior finish of houses, and light boxes, such as honey boxes. It also makes a fine grade of charcoal. The fibrous inner bark is made into mats and cordage. It is an important honey plant and the saps yields sugar. The flowers and bark are sometimes used medicinally.

**Tilia Michauxii** Nutt.

*Tilia pubescens* of Gray's Manual, ed. 6, not Ait.

Basswood.

Rare. Wooded hillsides: Ledyard (Graves), Franklin (Graves, R. W. Woodward), Old Lyme (Miss A. M. Ryon). Late June—early July.

**Tilia vulgaris** Hayne (common).

European Linden.

Rare. Escaped from cultivation to roadsides in Hartford (H. S. Clark & Bissell). June. Introduced from Europe.

This is the species so much esteemed for street decoration in Berlin.

## MALVACEAE. MALLOW FAMILY.

## ABUTILON Mill. Indian Mallow.

**Abutilon Theophrasti** Medic.*Abutilon Avicennae* Gaertn.*Abutilon Abutilon* Rusby.

Velvet Leaf.

Occasional. Waste places and roadsides. Aug.—Sept.  
Naturalized from Asia.**Abutilon pictum** (Gill.) Walp. (painted).*Abutilon striatum* Dicks.

Flowering Maple. Tassel Tree.

Rare. Salisbury, a few plants in waste ground as an escape  
from cultivation (H. S. Clark). June—Aug. Fugitive from  
Brazil.

## SIDA L.

**Sida spinosa** L. (spiny).Rare. Bridgeport, several plants in a dry sandy waste  
(Eames). Sept. Fugitive from the Tropics.

## ALTHAEA L. Marsh Mallow.

**Althaea officinalis** L. (of the shops).

Marsh Mallow. Sweatweed. Mortification Root.

Rare. Borders of marshes: Norwich (Mrs. E. E. Rogers),  
Guilford (G. H. Bartlett & Bissell). July—Aug. Natural-  
ized from Europe.The root, the leaves and the flowers are medicinal, the first  
named officinal. The root is very mucilaginous and is used  
in the manufacture of confectionery.**Althaea rosea** (L.) Cav. (rose-colored).

Hollyhock.

Rare. Waste places and street gutters as an escape from  
gardens: New London (Graves), Hartford (H. S. Clark &  
Bissell), New Britain (J. N. Bishop), Meriden (Andrews),  
Bridgeport and Fairfield (Eames). July—Aug. Adventive  
from southern Europe.

An old and deservedly popular garden plant.



**MALVA L.** Mallow.**Malva rotundifolia L.** (round-leaved).

Common or Dwarf Mallow. Cheeses.

Common. Waste places and cultivated fields. May — Oct.  
Naturalized from Europe.

Sometimes troublesome as a weed. The plant is medicinal,  
and like most species of this family abounds in mucilage.

**Malva crispa L.** (curled).

Curled Mallow.

Rare. Escaped from gardens to cultivated ground: East  
Lyme (Miss A. M. Ryon), Oxford (Harger). June — Aug.  
Adventive from Europe.

**Malva sylvestris L.** (of woods).

High Mallow.

Rare or local. Roadsides and waste ground: Norwich  
(Mrs. E. E. Rogers), East Lyme (Miss A. M. Ryon), New  
Haven (O. D. Allen), Southington (Bissell), Oxford (Har-  
ger), Bridgeport (Eames), Litchfield (Miss E. H. Thomp-  
son). Aug.—Sept. Adventive from Europe.

The plant is medicinal.

**Malva moschata L.** (musky).

Musk Mallow or Rose.

Rare, but found throughout the state. Escaped from  
gardens to roadsides and waste ground. June — Aug. Ad-  
ventive from Europe.

**Malva Alcea L.** (classical name for some mallow).

European Mallow.

Rare. Roadsides and waste ground as an escape from  
gardens: Griswold and East Lyme (Graves), Stafford and  
Southington (Bissell), East Granby (H. S. Clark), Trumbull  
(J. P. Coles), Weston (Eames & C. C. Godfrey), Salisbury  
(Mrs. C. S. Phelps). June — Sept. Adventive from Europe.

**HIBISCUS L.** Rose Mallow.**Hibiscus syriacus L.**

Rose of Sharon. Shrubby Althaea.

Rare. Meriden, ballast ground (Andrews), Fairfield,

freely escaped to a shrubby hillside (Eames), Salisbury (C. C. Godfrey). Aug. Naturalized from Asia.

**Hibiscus Moscheutos** L. (producing offsets).

Wild or Swamp Rose Mallow.

Frequent along the coast in brackish and saline marshes; rare inland as at Woodbury (Harger). Aug.—Sept.

The root is sometimes used medicinally. Will thrive in any garden soil and is well worthy of cultivation.

**Hibiscus Trionum** L.

Bladder Ketmia. Flower-of-an-Hour.

About old gardens and in waste places as an escape from cultivation. Rare in most districts: Ledyard (Graves), Guilford (G. H. Bartlett), East Windsor (Bissell), Southington (Andrews). Occasional in the southwestern part of the state. July — Aug. Adventive from Europe.

**Hibiscus esculentus** L. (edible).

Okra. Gumbo.

Rare. Waste ground in Fairfield (Eames). Aug.—Sept. Fugitive from tropical Asia.

Much cultivated in the South for its young pods which are added to soups and stews. It can be grown successfully in southern Connecticut.

HYPERICACEAE. ST. JOHN'S-WORT FAMILY.

**HYPERICUM** L. St. John's-Wort.

**Hypericum Ascyron** L. (classical name for some species of St. John's-wort).

Great St. John's-wort.

Alluvial soil on banks of streams. Rare in most districts: Wethersfield and Simsbury (A. W. Driggs), Southington (Andrews). Occasional along the Housatonic River throughout its course. July — Aug.

**Hypericum perforatum** L. (perforated).

Common St. John's-wort.

Common. Waste places, open fields and roadsides. May — June. Naturalized from Europe.

The herb is medicinal and is used as a substitute for Arnica.

**Hypericum punctatum** Lam. (dotted).

*Hypericum maculatum* Walt., not Crantz.

*Hypericum corymbosum* Muhl.

*Hypericum maculatum* Walt., var. *subpetiolatum* Bicknell.

Frequent. Moist ground. July — Aug.

**Hypericum prolificum** L. (prolific; fertile).

Shrubby St. John's-wort.

Rare. Escaped from cultivation to fields and roadsides: Woodstock (Graves & Harger), Salisbury (Mrs. C. S. Phelps). June — Aug. Adventive from the South.

**Hypericum adpressum** Bart. (appressed).

Rare. Wet shores: Lisbon (W. A. Setchell & Graves), Lebanon (Mrs. C. B. Graves), East Lyme (Miss A. M. Ryon). June — July.

**Hypericum Bissellii** Robinson.

Rare. Open rocky woods: Southington (Bissell). July — Aug.

**Hypericum ellipticum** Hook. (oval).

Pale St. John's-wort.

Common. Moist places and along streams. Late June — July.

**Hypericum boreale** (Britton) Bicknell (northern).

*Hypericum canadense* L., var. *minimum* Gray's Manual ed. 6.

Wet or moist sandy soil. Probably occasional or frequent throughout but its exact distribution is not known. July — Sept.

**Hypericum mutilum** L. (mutilated).

Dwarf St. John's-wort.

Common. Moist or wet sandy ground along streams and in ditches and about ponds. July — Sept.

**Hypericum majus** (Gray) Britton (larger).

*Hypericum canadense* L., var. *majus* Gray.

Moist sandy ground, usually along streams. Rare or local in most parts of the state: Groton (Graves), Union (Bissell), Southington (Andrews, Bissell). Occasional along the Connecticut River and in parts of New Haven and Fairfield Counties. July — Aug.

**Hypericum canadense** L.

Common. Sandy ground, usually in moist or wet but sometimes in dry places. July — Sept.

**Hypericum gentianoides** (L.) BSP. (gentian-like).

*Hypericum nudicaule* Walt.

*Sarothra gentianoides* L.

Orange Grass. Pineweed.

Common. Dry sandy or rocky ground, often plentiful on sand plains. Aug.—Sept.

**Hypericum virginicum** L.

*Triadenum virginicum* Raf.

*Elodea campanulata* Pursh.

Marsh St. John's-wort.

Frequent. Swamps and in shallow water. July — Sept.

## ELATINACEAE. WATERWORT FAMILY.

**ELATINE** L. Waterwort.**Elatine americana** (Pursh) Arn.

Mud Purslane.

Muddy shores and in shallow water. Rare or local in most districts: Norwich (Mrs. E. E. Rogers), Groton, Lyme and Old Lyme (Graves), Guilford (G. H. Bartlett), Southington (Andrews & Bissell), Middlebury (Harger), Kent (Eames & E. H. Austin). Local or occasional in southwestern Connecticut. July — Aug.

## CISTACEAE. ROCKROSE FAMILY.

**HELIANTHEMUM** Mill. Rockrose.**Helianthemum canadense** (L.?) Michx.

Frostweed.

Frequent. Dry sandy or gravelly places. Mid-May — July.  
The plant is medicinal.

**Helianthemum majus** BSP. (larger).

Frostweed.

Frequent. Dry open ground in sandy or gravelly soil.  
June — July.

## HUDSONIA L.

**Hudsonia tomentosa** Nutt. (woolly).

False Heather. Poverty Grass.

Rare, occasional or local on sand dunes along the coast from Groton (Graves), westward as far as Westport (Eames & C. C. Godfrey); occurs also inland at Ledyard (Graves). Late May—June.

## LECHEA L. Pinweed.

**Lechea villosa** Ell. (hairy).

*Lechea major* Michx., not L.

Hairy Pinweed.

Common. Roadsides, fields and waste ground in sterile soil. July—Aug.

**Lechea minor** L. (smaller).

*Lechea thymifolia* Michx.

Rare or local. Dry open ground or in half-shade: New London and East Lyme (Graves), Middletown and Enfield (Bissell), Southington (Andrews), Kent (Eames), Salisbury (Mrs. C. S. Phelps). July—Aug.

**Lechea intermedia** Leggett (intermediate).

*Lechea minor* Gray's Manual ed. 6.

Open ground or thin woods in sterile soil. Rare near the coast, becoming frequent or common northward. July—Aug.

**Lechea maritima** Leggett (of the seaside).

*Lechea minor* L., var. *maritima* Gray.

Beach Pinweed.

Frequent on sandy beaches and dunes along the coast. July—Aug.

**Lechea maritima** Leggett, var. *interior* Robinson (inland).

Dry sandy or sterile soil. Rare or occasional in the southeastern part of the state, extending to Sterling (Graves), East Hartford (Weatherby), and Southington (Andrews). July—Aug.

**Lechea tenuifolia** Michx. (fine-leaved).

Frequent. Dry sandy or sterile ground. July—Aug.

**Lechea Leggettii** Britton & Hollick.*Lechea moniliformis* Bicknell.

Dry or sandy places. Occasional or local in New London County (Graves); not reported elsewhere. July—Aug.

## VIOLACEAE. VIOLET FAMILY.

## VIOLA L. Violet. Heart's-ease.

**Viola pedata** L. (like a bird's foot; referring to the form of the leaves).

*Viola pedata* L., var. *bicolor* Pursh.

Bird-foot Violet.

Dry sandy or rocky ground. Rare in its typical form: New Milford (Miss S. Hartwell), Branford (Miss R. Doolittle), and rarely near the coast eastward (Graves).

The var. *LINEARILOBA* DC. (very narrow-lobed), *Viola pedata* of Gray's Manual ed. 6, not L., is frequent in most parts of the state and is sometimes common on sandy plains. May and sometimes again in Sept.

Occasionally occurs with white or pink flowers.

**Viola cucullata** Ait. (hooded).

*Viola palmata* L., var. *cucullata* Gray in part.

Marsh Blue Violet.

Frequent or common. Wet meadows, swamps and banks of streams. May—June.

Sometimes occurs with white, pale or variegated flowers.

A hybrid with *Viola fimbriatula* is frequent; a hybrid with *Viola palmata* occurs at East Lyme (Miss A. M. Ryon); hybrids with *Viola papilionacea* and *Viola sororia* are occasional; a hybrid with *Viola Brittoniana* occurs locally along the coast westward (Eames); a hybrid with *Viola septentrionalis* occurs at Killingly (Weatherby & Bissell); a hybrid with *Viola sagittata* occurs at Windsor (Bissell) and Fairfield (Eames).

This and the twelve species immediately following constitute a group of closely related species that hybridize freely when growing together. These hybrids show characters more or less intermediate between those of the parents, and many of

them have been described as species. They are often plentiful locally and vigorous in growth, but show impaired fertility, a large proportion of the ovules never forming seeds.

**Viola nephrophylla** Greene (kidney-leaved).

*Viola vagula* Greene.

Rare. Rich humus about a cold spring on a wooded hillside, Salisbury (Mrs. C. S. Phelps & Bissell), New Milford, moist ledges on river bank (Bissell). May.

**Viola affinis** Le Conte (related).

*Viola venustula* Greene.

*Viola obliqua* of Britton's Manual.

Rich woods and thickets, mostly in alluvial soil. East Lyme (Miss A. M. Ryon), Windsor (Weatherby), Plainville (Andrews), Southington (Bissell), and occasional along the Housatonic River in the northwestern part of the state. May—June.

**Viola latiuscula** Greene (somewhat broad).

Rare. Rich woods or moist grassland: Southington and Cornwall (Bissell). May.

**Viola papilionacea** Pursh (butterfly-like).

*Viola palmata* L., var. *cucullata* Gray in part.

Common. Meadows, pastures and open places. May—June.

A hybrid with *Viola sagittata* occurs at Glastonbury (Bissell); a hybrid with *Viola sororia* is occasional throughout.

Sometimes found with pure white flowers, or white flecked with blue.

**Viola palmata** L. (palmate).

Dry woods. Rare in New London County: Ledyard (Graves), East Lyme (Miss A. M. Ryon). Occasional elsewhere. May—June.

A hybrid of this with *Viola papilionacea* is sometimes found.

**Viola triloba** Schwein. (three-lobed).

*Viola palmata* L., var. *dilatata* Pollard, not Ell.

Occasional. Rich woods either dry or moist. May—June.

**Viola sororia** Willd. (sisterly).*Viola palmata* L., var. *sororia* Pollard.

Woolly Blue Violet.

Occasional or frequent. Woods and dry open ground.  
May—June.**Viola septentrionalis** Greene (northern).

Rare. Roadsides and shaded banks: Union, East Windsor, Plainville, New Hartford and Winchester (Bissell). May—June.

**Viola fimbriatula** J. E. Smith (finely fringed).*Viola sagittata* Gray's Manual ed. 6 in part.*Viola ovata* Nutt.

Common. Dry fields and woods. April—May.

Hybrids of this with *Viola palmata*, *Viola papilionacea*, *Viola sagittata* and *Viola sororia* are occasional. A hybrid with *Viola Brittoniana* is reported from Southington (Andrews), and occurs at Fairfield (Eames).

Rarely seen with white flowers.

**Viola sagittata** Ait. (arrow-head shaped).*Viola subsagittata* Green.

Moist or dry sandy or heavy soils. Generally rare: East Lyme (Miss A. M. Ryon), Glastonbury, Windsor and Bloomfield (Bissell), Plainville and Southington (Andrews). Occasional along the coast in Fairfield County (Eames). May—June.

A hybrid of this with *Viola Brittoniana* is reported from Southington (Andrews), and occurs along the coast in Fairfield County (Eames).**Viola Brittoniana** Pollard.*Viola septemloba* of authors, not LeConte.*Viola atlantica* Britton, not Pomel.

Meadows or sometimes dry open places. Occasional or local along the coast from New Haven westward (Eames). May—June.

**Viola pectinata** Bicknell (comb-like).

Rare. Stratford, inner edge of salt meadows (C. C. Godfrey). May—June.



A hybrid of this with *Viola Brittoniana* occurs at Stratford (Eames).

***Viola lanceolata* L.** (lance-shaped).

Lance-leaved Violet.

Low meadows, swamps and wet places about ponds. Rare or occasional in Litchfield County but frequent or common elsewhere. May—June.

***Viola primulifolia* L.** (primrose-leaved).

Primrose-leaved Violet.

Moist sandy woods, meadows and open swamps. Occasional over most of the state but not reported from Litchfield County. May—June.

***Viola pallens* (Banks) Brainerd** (pale).

*Viola blanda* of recent American authors, not Willd.

Sweet White Violet.

Common. Moist or wet fields and woods or in swamps. May—June.

***Viola blanda* Willd.** (mild).

*Viola amoena* LeConte.

*Viola blanda* Willd., var. *palustriformis* Gray.

Occasional or frequent. Moist or wet woods in rich soil. May—June.

***Viola incognita* Brainerd** (unknown).

Rare. Deep moist or wet woods: North Canaan (Bissell), Salisbury (Mrs. C. S. Phelps, Weatherby), Colebrook (Weatherby). May.

***Viola rotundifolia* Michx.** (round-leaved).

Early Yellow Violet. Round-leaved Violet.

Damp woods and cool shaded banks. Rare or local in New London County: Waterford and Franklin (Graves), Norwich (Mrs. E. E. Rogers). Becoming occasional or frequent northward and westward. April—May.

***Viola odorata* L.** (fragrant).

English or Sweet Violet.

Rare. About gardens as an escape from cultivation: New London (Graves), Norwich (Mrs. E. E. Rogers), East Wind-

sor (Bissell), Southington (Andrews), Waterbury (A. E. Blewitt), Oxford (Harger), Bridgeport (Miss A. E. Carpenter). April—May. Adventive from Europe.

The herb and the flowers are medicinal.

**Viola pubescens** Ait. (downy).

Downy Yellow Violet.

Occasional or frequent. Rich woods. May—June.

**Viola scabriuscula** Schwein. (slightly rough).

*Viola pubescens* Ait., var. *scabriuscula* Torr. & Gray.

Smooth Yellow Violet.

Rare or occasional. Rich woods usually in moist soil.

Late April—May.

**Viola canadensis** L.

Canada Violet.

Rare. Rocky woods in moist rich soil: New Haven, station now obliterated (H. W. Bailey), Guilford (W. R. Dudley), Torrington (Miss B. A. Parker), Colebrook (H. C. Beardslee). May—July.

**Viola conspersa** Reichenb. (sprinkled).

*Viola canina* L., var. *Muhlenbergii* Gray.

*Viola labradorica* of recent American authors, not Schrank.

*Viola Muhlenbergii* Torr.

Dog Violet.

Frequent. Moist or dry woods and fields. May—June.

**Viola rostrata** Pursh (beaked).

Long-spurred Violet.

Rich woods. Guilford (G. H. Bartlett), Meriden (D. C. Eaton), Wilton (G. P. Ells); becoming occasional northward in western Connecticut. May.

**Viola tricolor** L. (three-color).

Heart's-ease. Johnny-jump-up. Pansy.

Rare or occasional. An escape about old gardens. May—July. Introduced from Europe.

One of the oldest of garden flowers, of which the modern Pansy is an improved form.

**Viola arvensis** Murr. (of cultivated land).

Field or Wild Pansy.

Rare. Cultivated ground, meadows and waste places: Southington (Mrs. J. Dunham), Oxford (Harger), Bridgeport (Eames). May — Oct. Adventive from Europe.

## CACTACEAE. CACTUS FAMILY.

**OPUNTIA** Mill. Prickly Pear. Indian Fig.

*Opuntia vulgaris* Mill. (common).

*Opuntia Opuntia* Coult.

Prickly Pear. Indian Fig.

Exposed rocks and in sandy soils. Occasional along the coast; rare inland, reaching Scotland (G. Waldo), Guilford, at North Guilford (G. H. Bartlett), Naugatuck and Beacon Falls (J. K. Goodrich), Seymour and Oxford (Harger). June — July.

## THYMELAEACEAE. MEZEREUM FAMILY.

**DIRCA** L. Leatherwood. Moosewood.

*Dirca palustris* L. (of marshes).

Wicopy. Leatherwood. Moosewood.

Damp rich woods. Rare near the coast and in eastern Connecticut: Scotland (G. Waldo), Guilford (G. H. Bartlett), Orange (Harger), Bridgeport (Eames). Becoming occasional northward and westward. April — May.

The bark is very tough and was formerly used by the Indians for thongs. Medicinal.

## LYTHRACEAE. LOOSESTRIFE FAMILY.

**ROOTALA** L.

*Rotala ramosior* (L.) Koehne (very branching).

Rare or local. Moist meadows and shores of ponds: Griswold (Harger & Graves), Stratford, Milford and Bridgeport (Eames). July — Sept.

**DECODON** J. F. Gmel. Swamp Loosestrife.

*Decodon verticillatus* (L.) Ell. (whorled).

Water Willow. Swamp Loosestrife.

Local or frequent. Shallow water of swamps or edges

of ponds and streams, sometimes plentifully bordering such places. July — Sept.

A form with double flowers occurs at Plainville (J. N. Bishop).

**LYTHRUM** L. Loosestrife.

**Lythrum alatum** Pursh (winged).

Rare or local. Moist fields and open swamps: Norwich (Mrs. E. E. Rogers), Farmington (A. W. Driggs & Weatherby), Fairfield (Eames), Orange and Norfolk (Bissell), Salisbury (Mrs. C. S. Phelps). June — Aug.

**Lythrum Salicaria** L. (willow-like).

Spiked or Purple Loosestrife.

Rare or local. River banks and moist meadows: East Haddam (Dr. E. J. Thompson), Southington (Andrews, Bissell), Bristol (D. C. Eaton), Fairfield (Eames), Woodbury (H. S. Clark & Bissell), Litchfield (Miss E. H. Thompson), Danbury (C. K. Averill), New Milford (E. H. Austin), Salisbury (Mrs. C. S. Phelps). July — Aug. Naturalized from Europe.

**CUPHEA** P. Br.

**Cuphea petiolata** (L.) Koehne (having leaf-stalks).

*Cuphea viscosissima* Jacq.

*Parsonsia petiolata* Rusby.

Clammy Cuphea.

Moist or dry open ground and pastures. Rare in most districts: Groton (Harger & Graves), Guilford (G. H. Bartlett & Bissell), East Hartford (A. W. Driggs & Weatherby), Wallingford and Oxford (Harger), Plainville (J. N. Bishop), Danbury (Miss G. L. Northrop). Local throughout southwestern Connecticut (Eames). Aug.—Sept.

**MELASTOMACEAE. MELASTOMA FAMILY.**

**RHEXIA** L. Deergrass. Meadow Beauty.

**Rhexia virginica** L.

Meadow Beauty.

Low fields and meadows. Rare or absent in northwestern Connecticut, becoming occasional eastward and southward and frequent in the vicinity of the coast. July — Sept.

## ONAGRACEAE. EVENING PRIMROSE FAMILY.

## LUDVIGIA L. False Loosestrife.

**Ludvigia alternifolia** L. (alternate-leaved).

Seedbox.

Occasional or frequent. Moist places and about swamps.  
June — Aug.**Ludvigia sphaerocarpa** Ell. (globular-fruited).Rare. Guilford, shallow water of ponds (W. H. Dudley,  
G. H. Bartlett). Aug.; fruit Sept.— Oct.**Ludvigia polycarpa** Short & Peter (many-fruited).Local. Hartford, plentiful about shallow ponds in  
meadows along the Connecticut River (C. Wright, H. S. Clark  
& Bissell). July — Aug.**Ludvigia palustris** (L.) Ell. (of marshes).*Isnardia palustris* L.

Marsh or Water Purslane.

Frequent or common. In streams, on muddy shores or in  
shallow water. June — Sept.

## EPILOBIUM L. Willow-herb.

**Epilobium angustifolium** L. (narrow-leaved).*Chamaenerion angustifolium* Scop.

Great Willow-herb. Fireweed.

Occasional or frequent. Woodlands and pastures, more  
often in newly cleared land. July — Sept.

The leaves and roots are used medicinally.

**Epilobium molle** Torr. (soft).*Epilobium strictum* Muhl. (?).Open bogs and swamps. Rare or local in the northwestern  
part of the state, extending eastward to East Hartford  
(Weatherby) and southward to Fairfield (Eames). Aug.—  
Sept.**Epilobium densum** Raf. (close together).*Epilobium lineare* Muhl. (?).Occasional to frequent. Swamps and wet places. July —  
Sept.

**Epilobium palustre** L. (of marshes).

Rare. Litchfield, only one plant in a shaded sphagnum bog (Bissell). Aug.—Sept.

**Epilobium palustre** L., var. **monticola** Haussk. (living in mountains).

Rare. Sphagnum bogs: Wolcott (Bissell), Monroe (Harger), New Fairfield (Eames). Aug.—Sept.

The leaves and root are medicinal, as are those of the species.

**Epilobium coloratum** Muhl. (colored).

Moist or wet shaded places. Rare in the southeastern part of the state: Lyme (Graves). Frequent or common elsewhere. July — Aug.

**Epilobium adenocaulon** Haussk. (having glandular stems).

Damp woods and moist open ground. Rare in most districts: Salisbury (Mrs. C. S. Phelps), Norfolk and Middletown (Bissell), Watertown (Harger), Stratford (Eames), New Britain (Bissell). Frequent in New London County (Graves). July — Sept.

**OENOTHERA** L. Evening Primrose.**Oenothera cruciata** Nutt. (cross-shaped).

*Oenothera biennis* L., var. *cruciata* Torr. & Gray.

*Onagra cruciata* Small.

Rare or local. Waste ground: Hartford (H. S. Clark), Salisbury (Mrs. C. S. Phelps). July — Aug.

**Oenothera Oakesiana** Robbins.

*Oenothera biennis* L., var. *Oakesiana* Gray.

*Onagra Oakesiana* Britton in part.

Frequent along the coast on sea beaches, sand dunes and railway embankments (Graves, Eames). July — Oct.

**Oenothera biennis** L. (of two years).

*Onagra biennis* Scop.

Common Evening Primrose.

Common. Dry fields, pastures and roadsides. June — Oct.

All parts of the plant are used medicinally.

**Oenothera grandiflora** Ait. (large-flowered).

*Oenothera biennis* L., var. *grandiflora* Lindl.

*Onagra biennis* Scop., var. *grandiflora* Lindl.

Rare. Open ground: Franklin and Griswold (Graves), Southington (Andrews), Bridgeport (Eames), Norfolk (J. H. Barbour), Litchfield (Miss E. H. Thompson). Aug.—Oct. Adventive or fugitive from the South.

**Oenothera laciniata** Hill (slashed).

*Oenothera sinuata* L.

Rare. Waste ground: Norwich (Mrs. E. E. Rogers), East Lyme (Miss A. M. Ryon), East Hartford (J. F. Smith), Derby (Harger), Bridgeport (Eames). May—June. Fugitive from the southern United States.

**Oenothera pumila** L. (dwarf).

*Kneiffia pumila* Spach.

Frequent or common. Moist or dry open fields and roadsides. June—Aug.

**Oenothera fruticosa** L. (shrubby).

Sundrops.

*Kneiffia fruticosa* Raimann.

Rare. Borders of marshes: East Haven (G. Thurber), Fairfield (Eames). June—July.

The var. *HIRSUTA* Nutt. (rough-hairy), *Kneiffia fruticosa* Raimann, var. *pilosella* Britton, has been found in a field at Southington (H. M. Whitney), but afterward disappeared.

**Oenothera linearis** Michx. (very narrow).

*Oenothera fruticosa* L., var. *linearis* Wats.

*Kneiffia linearis* Spach.

Wet meadows and about marshes. Frequent or local along the coast from New Haven (H. S. Clark) westward; extending inland to Oxford and Southbury (Harger) and Woodbury (H. S. Clark). June—Aug.

*Kneiffia Alleni* Small or *Oenothera fruticosa* L. var. *humifusa* Allen is a sprawling or decumbent form of this, growing in barren sand; it occurs at Stratford (Eames).

The var. *EAMESII* Robinson is rare: Stratford, sandy shore of a salt pond (Eames).

**Oenothera longipedicellata** (Small) Robinson (having long flower-stalks).

*Kneiffia longipedicellata* Small.

Low meadows and borders of marshes. Occasional on the coast from Milford (Eames) westward; and inland at Southbury (A. E. Blewitt) and Woodbury (H. S. Clark & Bissell). June — July.

**Oenothera pratensis** (Small) Robinson (of meadows).

*Kneiffia pratensis* Small.

Rare. Border of salt marsh: Bridgeport (I. F. Moore). June.

### GAURA L.

**Gaura biennis** L. (of two years).

Rare or local. Dry open ground: Southington (Bissell), New Haven (H. S. Clark, Harger), Oxford and Seymour (Harger). Aug.—Sept. In part adventive from the West.

**CIRCAEA** L. Enchanter's Nightshade.

**Circaea lutetiana** L.

Occasional or frequent. Moist woods. July — Aug.

**Circaea alpina** L. (alpine).

Rocky woods in moist humus. Rare in southern districts: North Stonington (Graves), Guilford (G. H. Bartlett), Orange and Huntington (Eames). Becoming occasional northward. June — July.

## HALORAGIDACEAE.

### WATER MILFOIL FAMILY.

**MYRIOPHYLLUM** L. Water Milfoil.

**Myriophyllum spicatum** L. (spiked).

Rare. Litchfield, in Bantam Lake (T. F. Allen), Kent, in Spectacle Ponds (Eames). July — Aug.

**Myriophyllum verticillatum** L. (whorled), var. **pectinatum** Wallr. (comb-like).

*Myriophyllum verticillatum* Gray's Manual ed. 6 in part.

Rare. In ponds and rivers: Lyme (Graves), Guilford



(G. H. Bartlett), Southington (Bisseil, Andrews), Plainville (J. N. Bishop), Litchfield (Miss E. H. Thompson), New Milford and Kent (Eames). June — Aug.

**Myriophyllum scabratum** Michx. (roughened).

*Myriophyllum pinnatum* BSP., at least in part, possibly *Potamogeton pinnatum* Walt.

Water Milfoil.

Rare. Muddy shores of ponds: Groton and East Lyme (Graves). July — Sept.

**Myriophyllum humile** (Raf.) Morong (lowly).

*Myriophyllum ambiguum* Nutt., var. *limosum* Nutt.

Water Milfoil.

Rare to frequent. Borders of ponds and on muddy shores. July — Sept.

The forma *NATANS* (DC.) Fernald (floating), *Myriophyllum ambiguum* Nutt., and the forma *CAPILLACEUM* (Torr.) Fernald (hair-like), *Myriophyllum ambiguum* Nutt., var. *capillaceum* Torr., both occur in shallow or deep water of ponds, the latter even in rapid water.

**Myriophyllum tenellum** Bigel. (delicate).

Rare. Muddy shores and in shallow water: New London County (Graves), Litchfield (T. F. Allen), Kent (E. H. Austin & Eames). July — Aug.

**PROSERPINACA** L. Mermaid-weed.

**Proserpinaca palustris** L. (of marshes).

Mermaid-weed.

Frequent. Borders of ponds and in swamps. July — Aug.

**ARALIACEAE. GINSENG FAMILY.**

**ACANTHOPANAX** Dcne. & Planch.

**Acanthopanax pentaphyllum** (Thunb.) Marchal (five-leaved).

Acanthopanax.

Rare. Hartford, escaped from cultivation to roadside (H. S. Clark & Bissell). July. Adventive from Japan.

## ARALIA L.

**Aralia spinosa** L. (spiny).

Angelica Tree. Hercules' Club. Devil's Walking-stick.

Rare. Escaped from cultivation to a roadside in Bridgeport (Eames). July—Aug. Adventive from the South.

**Aralia racemosa** L. (racemose).

Spikenard. American Spikenard. Spignet. Hungry-root.

Occasional. Rich woods and thickets. July—Aug.

The root is medicinal and is much used both in professional and domestic practice.

**Aralia hispida** Vent. (rough-haired).

Bristly Sarsaparilla. Wild Elder.

Occasional or local. Dry rocky woods or in sandy ground.

June—Aug.

The root is of medicinal value.

**Aralia nudicaulis** L. (naked-stemmed).

Wild, False or American Sarsaparilla.

Frequent or common. Dry or moist woodlands. May—June.

The aromatic root is used medicinally.

## PANAX L. Ginseng.

**Panax quinquefolium** L. (five-leaved).

*Aralia quinquefolia* Dcne. & Planch.

Ginseng.

Rare. Rich woods or rocky hillsides: Lyme and East Haddam (Graves), Guilford (G. H. Bartlett), Middletown (Harger), Southington (Andrews & Bissell), West Hartford (Miss A. Lorenz), Farmington (Bissell), Wolcott (Andrews), Woodbridge (P. P. Sperry), Colebrook (J. W. Robins), Goshen (L. M. Underwood), Danbury (F. Mills), New Fairfield (Eames). June; fruit Aug.

The roots are much prized by the Chinese and are exported to China in large quantities, but they seem to be of no great medicinal value.

**Panax trifolium** L. (three-leaved).

*Aralia trifolia* Dcne. & Planch.

Dwarf Ginseng. Groundnut.

Rich moist woods, often in sandy soil. Mid-April—June.

## UMBELLIFERAE. PARSLEY FAMILY.

## ERYNGIUM L. Eryngo.

**Eryngium planum** L. (flat).

Rare. Fairfield, in sandy waste ground (Eames). Aug.—Sept. Fugitive from Europe.

**Eryngium yuccifolium** Michx. (having leaves like *Yucca*, the Spanish Bayonet).

*Eryngium aquaticum* of Britton's Manual.

Rattlesnake Master. Button Snakeroot.

Rare. Bridgeport, in a sandy field (Eames). July. Introduced from the South, or possibly native.

The rootstock is medicinal.

## SANICULA L. Sanicle. Black Snakeroot.

**Sanicula marilandica** L.

Frequent. Rich woods and more open places in either moist or dry ground. June—July.

The roots of this and the other species of the genus are used medicinally and their fibres in veterinary practice.

**Sanicula gregaria** Bicknell (herding together).

Rich moist or wet woods. Rare in most districts: New Britain (Bissell), Southington (Andrews, Bissell), Norfolk (J. H. Barbour), Seymour (Harger). Occasional in the southwestern part of the state (Eames). June—July.

**Sanicula canadensis** L.

*Sanicula marilandica* L., var. *canadensis* Torr.

Occasional or frequent. Dry rocky woods. June—July.

**Sanicula trifoliata** Bicknell (three-leaved).

Rare or local. Woods and fence-rows: New Britain and Plainville (Bissell), Southington (Andrews, Bissell), Oxford (Harger). June—July.

## HYDROCOTYLE L. Water Pennywort.

**Hydrocotyle umbellata** L. (umbellate).

Rare or local. Muddy shores and in shallow water: Thompson (R. W. Woodward & Weatherby), Groton, East

Lyme and Old Lyme (Graves), Guilford (G. H. Bartlett), New Haven (C. Wright), Hamden and Litchfield (D. C. Eaton), Oxford (Harger), Ridgefield (Eames). June — Sept.

**Hydrocotyle americana** L.

Common. Moist woods and shaded places and in bogs. June — Sept.

**OSMORHIZA** Raf. Sweet Cicely.

**Osmorhiza Claytoni** (Michx.) Clarke.

*Osmorhiza brevistylis* DC.

*Washingtonia Claytoni* Britton.

Sweet Cicely.

Rocky woods. Rare in the eastern part of the state, becoming occasional or frequent westward. Late May — June.

The roots are less aromatic than those of *Osmorhiza longistylis*.

**Osmorhiza longistylis** (Torr.) DC. (long-styled).

*Washingtonia longistylis* Britton.

Sweet Cicely. Anise-root. Sweet Chervil.

Frequent. Rich woods, thickets and fence-rows. May — June.

An aromatic oil is obtained from the root.

**CONIUM** L. Poison Hemlock.

**Conium maculatum** L. (spotted).

Poison Hemlock. Spotted Parsley.

Rare. Roadsides and waste places: Groton and New London (Graves), Oxford and Woodbury (Harger), Bridgeport (Eames), Sharon (Bissell), Salisbury (Mrs. C. S. Phelps, Bissell). June — Aug. Naturalized from Europe.

An actively poisonous plant well known as the Hemlock of the ancients. The fruit and leaves are medicinal, the first named officinal. Cases of accidental poisoning to man have arisen from mistaking the seed for anise seed, the leaves for those of parsley, and the root for parsnips. The seed has been found to some extent as an adulterant of anise seed.

Blowing whistles made from the hollow stem has also been reported as a cause of poisoning.

**PTILIMNIUM** Raf.      Mock Bishop's-weed.

**Ptilimnium capillaceum** (Michx.) Raf. (hair-like).

*Discopleura capillacea* DC.

Mock Bishop's-weed.

Occasional to frequent in salt, brackish and fresh marshes along the coast and within tidal influence a few miles inland; also extends up the Connecticut River as far as East Haddam (Dr. E. J. Thompson). Late July — Sept.

**AEGOPODIUM** L.      Goutweed.

**Aegopodium Podagraria** L. (pertaining to gout).

Goutweed. Goutwort. Herb Gerard.

Rare. Yards, streets and waste places as an escape from cultivation: East Windsor (Bissell), Hartford (Mrs. W. Seliger), Norwalk (E. H. Baldwin). June. Adventive from Europe.

Occurs only in the variegated form.

**CICUTA** L.      Water Hemlock.

**Cicuta maculata** L. (spotted).

Spotted Cowbane. Musquash Root. Beaver Poison. Water Hemlock.

Frequent. Swamps and borders of streams. July — Aug.

One of the most dangerously poisonous of native plants, and many cases of fatal poisoning to man have been reported. As a rule the root has been mistaken for some edible or innocent root like Horseradish, Sweet Cicely, etc. Cattle are poisoned by eating the rootstock or by drinking water containing juice from the bruised root. The leaves are used medicinally.

**Cicuta bulbifera** L. (bulb-bearing).

Water Hemlock.

Occasional or frequent. Banks of ponds and streams. July — Aug.

**CARUM** L. Caraway.**Carum Carvi** L. (classical name for this species).

Caraway.

Occasional or local. Escaped from cultivation to fields and roadsides. June—July. Adventive from Europe.

The seeds are much used to flavor cakes and cookies and are eaten as a carminative.

**PETROSELINUM** Hoffm. Parsley.**Petroselinum hortense** Hoffm. (of gardens).*Petroselinum Petroselinum* Karst.*Carum Petroselinum* Benth. & Hook.*Apium Petroselinum* L.

Common or Garden Parsley.

Rare. Escaped from cultivation to waste ground in Bridgeport and Stratford (Eames). July—Aug. Adventive from Europe.

**SIUM** L. Water Parsnip.**Sium cicutaefolium** Schrank (hemlock-leaved).*Sium lineare* Michx.*Sium Carsonii* Durand.

Occasional. Swamps and along streams in wet places. June—Sept.

**CRYPTOTAENIA** DC. Honewort.**Cryptotaenia canadensis** (L.) DC.*Deringa canadensis* Kuntze.

Honewort.

Frequent. Moist shady places. June—July.

**ZIZIA** Koch.**Zizia aurea** (L.) Koch (golden).

Golden Alexanders. Golden Meadow Parsnip.

Common. Low fields and wet meadows. May—June.

The var. *OBTUSIFOLIA* Bissell (blunt-leaved), occurs at South Windsor and Canaan (A. W. Driggs); and Salisbury (Bissell).

**Zizia cordata** (Walt.) DC. (heart-shaped).

Dry or wet copses. Rare in most districts: Groton (Graves), Branford (Andrews), Farmington (D. C. Eaton). Occasional in Fairfield County (Eames). June — Oct.

**FOENICULUM** Hill. Fennel.**Foeniculum vulgare** Hill (common).

*Foeniculum officinale* All.

*Foeniculum Foeniculum* Karst.

Common or Garden Fennel.

Rare or local. Escaped from cultivation to roadsides and ballast grounds: Southington (Andrews), New Milford (E. H. Austin & Eames), Bridgeport (Eames). July — Sept. Adventive from Europe.

The seeds are aromatic, well known for their medicinal properties, and are officinal.

**TAENIDIA** Drude.**Taenidia integerrima** (L.) Drude (quite entire).

*Pimpinella integerrima* Gray.

Yellow Pimpernel.

Rare. New Haven (A. B. Eaton, 1859), Stratford and Milford, dry, lightly wooded banks along the Housatonic River (Eames), also at Wilton (Miss A. E. Carpenter). May — June.

**LILAEOPSIS** Greene.**Lilaeopsis lineata** (Michx.) Greene (marked with lines).

*Crantzia lineata* Nutt.

Muddy tidal shores: Norwich (W. A. Setchell), Montville, East Lyme and Old Lyme (Graves). Local or occasional along the coast westward. June — Aug.

**LIGUSTICUM** L. Lovage.**Ligusticum scoticum** L.

Sea Parsley. Scotch Lovage.

Rocky shores of the Sound. Occasional from East Lyme (Graves) eastward. July — Aug.

**CORIANDRUM L.** Coriander.**Coriandrum sativum L.** (sown).

Coriander.

Rare. Escaped from cultivation or spontaneous in waste places in Bridgeport (Eames). June—July. Fugitive from Europe.

The seeds are commonly used as flavoring in confections, pastries, liquors, etc.

**AETHUSA L.** Fool's Parsley.**Aethusa Cynapium L.** (dog-parsley).

Fool's Parsley.

Rare. Waste ground: Norwalk (E. H. Baldwin, Eames). June—Sept. Adventive from Europe.

The plant is poisonous.

**PASTINACA L.** Parsnip.**Pastinaca sativa L.** (sown).

Wild or Poison Parsnip.

Common. Roadsides and waste places. June—Sept. Naturalized from Europe.

Well known in cultivation, from which the wild plant is an escape. The plant is poisonous to some persons.

**LEVISTICUM Hill.** Lovage.**Levisticum officinale (L.) Koch** (of the shops).*Ligusticum Levisticum L.**Levisticum Levisticum Karst.*

Lovage.

Rare. Roadsides and waste ground: Oxford (Harger), Salisbury (Mrs. C. S. Phelps). July—Aug. Adventive from Europe.

Commonly cultivated in old gardens for its carminative seeds, which are believed to possess several medicinal properties.

**ANETHUM L.** Dill.**Anethum graveolens L.** (strong-smelling).

Dill.

Rare. Escaped from cultivation or spontaneous in waste



places: Stratford and Bridgeport (Eames). July—Aug.  
Fugitive or adventive from Europe.

The seeds are commonly used as flavoring in confections, pastries, liquors, etc.

**HERACLEUM L.** Cow Parsnip.

**Heracleum lanatum** Michx. (woolly).

Cow Parsnip. Masterwort.

Occasional or frequent. Roadsides and waste ground in moist soils. June—July.

The root, leaves and seeds are medicinal.

**CONIOSELINUM** Fisch. Hemlock Parsley.

**Conioselinum chinense** (L.) BSP.

*Conioselinum canadense* Torr. & Gray.

Hemlock Parsley.

Rare. Wet, cold woods and banks: Kent (E. H. Austin & Eames), Cornwall (E. E. Brewster), Canaan (C. K. Averill), Salisbury (Bissell). Aug.—Sept.

**ANGELICA L.** Angelica.

**Angelica villosa** (Walt.) BSP. (hairy).

*Angelica hirsuta* Muhl.

Moist or dry fields and woods. New Haven (D. C. Eaton), Southington (Andrews & Bissell), and occasional westward, becoming frequent near the coast. July—Aug.

**Angelica atropurpurea** L. (dark purple).

Masterwort. Purple or High Angelica.

Rare to occasional. Wet ground along streams. June—July.

The root and seeds are used medicinally. The fresh root is poisonous.

**DAUCUS L.** Carrot.

**Daucus Carota** L. (classical name for the Carrot).

Wild Carrot.

Common. Fields, roadsides and waste places. June—Sept. Naturalized from Europe.

One of our most persistent, troublesome and wide-spread

weeds. A statute of Connecticut enacted in 1881, provides that "Every owner or possessor of lands shall cut down all wild carrots and Canada thistles growing thereon, or in the highway adjoining, so often as to prevent going to seed; and upon failure so to do, any person aggrieved, or any citizen of the town wherein the lands are situated, may complain to any grand juror of said town, who shall thereupon forthwith notify such owner or possessor of such complaint. If said owner or possessor shall still neglect to comply with the provisions of this section, he shall be fined not more than five dollars for each and every day of such neglect after such notice." Revised Statutes, Sec. 1374.

All parts of the plant have medicinal properties.

## CORNACEAE. DOGWOOD FAMILY.

### CORNUS L. Cornel. Dogwood.

#### *Cornus canadensis* L.

Dwarf or Low Cornel. Bunchberry.

Low or rocky woods and in swamps. Rare over most of the state, becoming frequent in Litchfield County. May—June.

#### *Cornus florida* L. (flowering).

Flowering Dogwood. Boxwood.

Occasional, local or frequent, mostly in rocky woods. May.

One of the most beautiful of our flowering trees and worthy of much more extensive cultivation. The bark, especially of the root, is used medicinally, and the powdered bark makes a good tooth-powder. The bark also yields a scarlet dye, and mixed with sulphate of iron makes a good black ink. The wood is heavy and close-grained and is used to make tool-handles and other small articles of turnery.

#### *Cornus circinata* L'Hér. (rounded).

Round-leaved Cornel or Dogwood.

Usually in rocky woods or on ledges. Rare in New London County (Graves); local or occasional elsewhere. May—June.

The bark is used medicinally.

**Cornus Amomum** Mill. (classical name for some shrub).*Cornus sericea* L.*Cornus Purpusi* Koehne.

Silky Cornel. Kinnikinnik. Swamp Dogwood.

Frequent. Low thickets and along streams. June—July.

The bark is used medicinally.

**Cornus stolonifera** Michx. (shoot-bearing).

Red-osier Cornel or Dogwood.

Wet places. Common in northwestern Connecticut, extending eastward to East Granby (I. Holcomb) and southward to New Milford (C. K. Averill); occurs also at East Hartford on a river bank (A. W. Driggs). May—June.

A good shrub for planting in moist soils.

**Cornus paniculata** L'Hér. (panicled).*Cornus candidissima* Marsh. (?), not Mill.

Panicled Cornel.

Occasional or frequent. Roadsides, thickets and borders of woods in either dry or moist ground. July.

A handsome shrub both in flower and fruit, and well worthy of cultivation.

**Cornus alternifolia** L. f. (alternate-leaved).

Dogberry.

Frequent. Fence-rows, copses and open woods. May—June.

**NYSSA** L. Tupelo. Pepperidge. Sour Gum.**Nyssa sylvatica** Marsh. (of woods).

Black or Sour Gum. Pepperidge. Tupelo.

Frequent. Woods and fields, usually in moist or wet ground. June.

The wood is soft but very hard to split; it is used for beetle-heads, chopping-bowls, rollers, etc. A tree of interesting habit and, especially in autumn, very ornamental. Worthy of cultivation, but very difficult to transplant from the wild.

## ERICACEAE. HEATH FAMILY.

## CLETHRA L. White Alder.

**Clethra alnifolia** L. (alder-leaved).

Sweet Pepperbush.

Swamps and low thickets. Rare in Litchfield County: Kent (E. H. Austin), Litchfield (Miss E. H. Thompson). Frequent elsewhere. July — Aug.

Often cultivated for its very fragrant white flowers.

## CHIMAPHILA Pursh. Pipsissewa.

**Chimaphila umbellata** (L.) Nutt. (umbellate).

Prince's Pine. Pipsissewa.

Occasional or frequent. Dry woods. June — July.

The leaves are medicinal and are officinal.

**Chimaphila maculata** (L.) Pursh (spotted).

Spotted Wintergreen.

Occasional or frequent. Dry woods. July — Aug.

Has medicinal properties similar to those of *Chimaphila umbellata*.

## MONESES Salisb. One-flowered Pyrola.

**Moneses uniflora** (L.) Gray (one-flowered).

*Moneses grandiflora* S. F. Gray.

One-flowered Pyrola or Wintergreen.

Rare or local. Pine woods: Woodstock (Graves), Union (H. E. Back), Avon (H. S. Clark), East Granby (I. Holcomb), Norfolk (Miss M. C. Seymour), Newtown (I. P. Blackman), Canaan (W. H. Leggett), Salisbury (Mrs. C. S. Phelps). June — July.

## PYROLA L. Wintergreen. Shin Leaf.

**Pyrola secunda** L. (one-sided).

Dry woods, often under pines and hemlocks. Rare near the coast: Ledyard (Graves), Hamden (Harger), Orange (Eames), Fairfield (L. N. Johnson). Occasional or local elsewhere. June — July.

**Pyrola chlorantha** Sw. (green-flowered).

Dry woods, usually under evergreens. Rare near the

coast: Ledyard (Graves), Guilford (W. R. Dudley). Becoming occasional northward. June.

**Pyrola elliptica** Nutt. (oval).

Shin Leaf.

Occasional to frequent. Dry woods, usually in rich soil. June—July.

**Pyrola americana** Sweet.

*Pyrola rotundifolia* Gray's Manual ed. 6, not L.

Round-leaved Shin Leaf.

Frequent or local. Dry woods. June—July.

This, like all other species of the genus, is sometimes used medicinally.

**MONOTROPA** L. Indian Pipe. Pinesap.

**Monotropa uniflora** L. (single-flowered).

Indian Pipe. Corpse Plant. Fit-root. Ghost-flower.

Frequent. Moist or dry woods in rich soil. July—Aug.

The root is sometimes employed medicinally and has been used as a substitute for opium.

**Monotropa Hypopitys** L. (under pine trees).

*Hypopitys Hypopitys* Small.

*Hypopitys lanuginosa* Nutt.

*Hypopitys americana* Small.

Pinesap. False Beech-drops.

Occasional. Rich woods. Aug.—Sept.

**LEDUM** L. Labrador Tea.

**Ledum groenlandicum** Oeder.

*Ledum latifolium* Ait.

Labrador Tea.

Rare or local. Bogs or sphagnum swamps: Willington (Graves), Norfolk (Miss M. C. Seymour). June.

The leaves are medicinal.

**RHODODENDRON** L.

**Rhododendron viscosum** (L.) Torr. (sticky).

*Azalea viscosa* L.

Clammy Azalea. White Swamp Honeysuckle.

Low thickets and swamps. Rare or occasional in northwestern Connecticut; frequent elsewhere. June—July.

The var. *GLAUCUM* (Michx.) Gray (glaucous) is occasional growing with the typical form. The var. *NITIDUM* (Pursh) Gray (shining) is rare: Groton and Waterford (Graves), Huntington (Eames), Oxford (Harger).

Rarely occurs with pink flowers.

**Rhododendron nudiflorum** (L.) Torr. (naked-flowered).

*Azalea nudiflora* L.

Purple, Pink or Wild Azalea. Pinxter Flower. May Apple. Wild Honeysuckle.

Frequent or common. Woods and thickets. May—June.

This and the following species are desirable shrubs for cultivation.

**Rhododendron canescens** (Michx.) G. Don (hoary).

*Azalea canescens* Michx.

Purple Azalea.

Rare. Woods and thickets: Colchester and Voluntown (Graves), Norfolk and Salisbury (Bissell). May—June.

**Rhododendron canadense** (L.) BSP.

*Rhododendron Rhodora* Don.

*Rhodora canadensis* L.

Rhodora.

Swamps and low woods and thickets. Rare in most districts: Voluntown (Graves), East Hartford (A. W. Driggs), Enfield (Mrs. G. S. Phelps), Burlington (J. N. Bishop), Southington (J. Shepard), North Haven (A. W. Evans), Middlebury (Harger). Occasional or local in northeastern Connecticut. May.

Noteworthy as the subject of one of Emerson's best known poems.

**Rhododendron maximum** L. (greatest).

Great Laurel. Rhododendron. Rose Bay.

Rare or local. Swampy woods or rarely on dry wooded hillsides: Litchfield, New London and Tolland Counties. July.

One of the most striking of the broad-leaved evergreens, and extensively planted for ornament. The leaves contain a poisonous principle and are sometimes used in medicine.

**KALMIA L.** American Laurel.***Kalmia latifolia* L.** (broad-leaved).

Mountain Laurel. Calico Bush. Spoon-wood.

Frequent, local or common. Woods and thickets. June.

Often planted for ornament. All parts of the plant are poisonous except the wood. Many instances of fatal poisoning of stock from eating this and allied plants have been reported. Sheep and young cattle are most susceptible, but horses and even goats have been known to die from the effects of it. Cases of human poisoning are quite rare. The leaves are employed medicinally.

The following act of the General Assembly was approved and became a law April 17, 1907: — "The Mountain Laurel, *Kalmia latifolia*, is hereby made, constituted, and declared to be the State Flower of the State of Connecticut."

***Kalmia angustifolia* L.** (narrow-leaved).

Sheep Laurel. Lambkill. Wicky.

Bogs, wet ground or open pastures. Local in Fairfield County; frequent or common elsewhere. June—July.

Its medicinal and poisonous properties are as in *Kalmia latifolia*.

***Kalmia polifolia* Wang.** (gray-leaved).

*Kalmia glauca* Ait.

Pale or Swamp Laurel.

Rare. Sphagnum bogs: Burlington (J. N. Bishop), Norfolk (J. H. Barbour), Litchfield (Bissell), Woodbury (Harger), Ridgefield (S. B. Mead), Kent (C. K. Averill), Salisbury (Mrs. C. S. Phelps). May—June.

**LEUCOTHOË D. Don.** Fetter Bush.***Leucothoë racemosa* (L.) Gray** (racemose).

Leucothoë.

Rare or local. Moist woods or in swamps: Groton, Waterford, Ledyard and East Haddam (Graves), Haddam and Durham (Dr. E. J. Thompson), Middlefield (C. S. Phelps), East Hartford (A. W. Driggs), Stratford (Eames), Huntington (Harger). May—June.

## ANDROMEDA L.

**Andromeda glaucophylla** Link (glaucous-leaved).

*Andromeda Polifolia* mostly of American authors, not L.

Bog or Marsh Rosemary. Marsh Holy Rose.

Rare. Sphagnum bogs: East Granby (Bissell), Litchfield (J. P. Brace, Harger, Weatherby & Bissell), Norfolk (J. H. Barbour), Kent (Eames, C. K. Averill), Ridgefield (S. B. Mead), Danbury (Miss G. L. Northrop). May—June.

## LYONIA Nutt.

**Lyonia mariana** (L.) D. Don.

*Andromeda mariana* L.

*Pieris mariana* Benth. & Hook.

Stagger-bush.

Rare. Stratford, shrubby bank near the coast (J. P. Coles). June.

In New Jersey and southward it is injurious to sheep when eaten by them, producing a disease called "Staggers," hence its common name. A valuable shrub in cultivation.

**Lyonia ligustrina** (L.) DC. (like *Ligustrum*, the Privet).

*Andromeda ligustrina* Muhl.

*Xolisma ligustrina* Britton.

Male Berry.

Frequent or common. Woods, thickets and pastures; sometimes in dry but usually in moist ground. June—July.

Like the preceding species, is poisonous to stock, especially to sheep.

**Lyonia ligustrina** (L.) DC., var. **foliosiflora** (Michx.) Fernald

(having leaves intermixed with the flowers).

*Xolisma foliosiflora* Small.

Low thickets. Forms that apparently belong with this variety occur rarely near the coast. June—July.

**CHAMAEDAPHNE** Moench. Leather Leaf. Cassandra.

**Chamaedaphne calyculata** (L.) Moench (calyculate).

*Cassandra calyculata* D. Don.

Leather Leaf.



Occasional or frequent. Sphagnum swamps and wet places. April — May.

**EPIGAEA L.** Ground Laurel. Trailing Arbutus.

**Epigaea repens L.** (creeping).

Trailing Arbutus. Mayflower.

Occasional or local. Rocky or sandy woods, usually preferring granite regions. April — May.

The leaves are used medicinally. In the neighborhood of cities it has been nearly exterminated by careless flower-gatherers. A statute of Connecticut, enacted in 1899, provides that "Every person who shall wilfully destroy, pull up, tear up, or dig up, any trailing arbutus from the land of another, or who shall sell, expose for sale, or purchase or have in his possession, any trailing arbutus with the roots or under-ground stems attached, taken from land not owned or occupied by him, shall be fined not more than twenty dollars." Revised Statutes, sec. 1224.

**GAULTHERIA L.** Aromatic Wintergreen.

**Gaultheria procumbens L.** (trailing).

Wintergreen. Checkerberry. Boxberry. Teaberry. Ivory Plum.

Occasional or frequent. Dry woods or sometimes in moist open ground, growing in colonies. July — Aug.

The berries and the young leaves are often eaten. The leaves and the volatile oil distilled from them are officinal and widely used in medical practice. The oil is also largely used as a flavoring agent.

**ARCTOSTAPHYLOS Adans.** Bearberry.

**Arctostaphylos Uva-ursi (L.) Spreng.** (bear-grape).

Bearberry. Uva-ursi.

Dry sandy or rocky places: Voluntown and Griswold (Graves), Norwich (Mrs. E. E. Rogers), Somers and West Hartford (Miss A. Lorenz), Middletown (J. D. Cochrane), Southington (D. C. Eaton, Andrews). Occasional or local near the coast. May — June.

The leaves are officinal and much used in medicine.

**CHIOGENES** Salisb. Creeping Snowberry.

**Chiogenes hispidula** (L.) Torr. & Gray (having fine rough hairs).

*Chiogenes serpyllifolia* Salisb.

Creeping Snowberry. White Teaberry. Moxie Plum. Capillaire.

Rare. Sphagnum swamps, usually in shade: Preston (W. A. Setchell & Graves), Voluntown (Graves), Burlington (J. N. Bishop), Bethany and Middlebury (Harger), Litchfield (Miss E. H. Thompson), Kent (E. H. Austin), Salisbury (Mrs. C. S. Phelps), Stafford (Weatherby). May—June.

This plant yields a volatile oil identical with that of *Gaultheria procumbens*.

**GAYLUSSACIA** HBK. Huckleberry.

**Gaylussacia dumosa** (Andr.) Torr. & Gray (bushy).

Dwarf Huckleberry.

Rare. Sphagnum bogs: Thompson (Harger), Southington (Andrews), Stratford and Huntington (Eames), Bethany and Middlebury (Harger), Litchfield (J. P. Brace, 1822; Weatherby & Bissell). June—July.

**Gaylussacia frondosa** (L.) Torr. & Gray (leafy).

Dangleberry. Blue Tangle.

Swamps or open sandy woods. Frequent in New London County (Graves), becoming rare northward and westward, reaching Putnam (Harger), Stafford and East Hartford (Weatherby), Manchester (A. W. Driggs), East Haven, Bethany and Oxford (Harger). June.

The berries are delicious.

**Gaylussacia baccata** (Wang.) K. Koch (berry-bearing).

*Gaylussacia resinosa* Torr. & Gray.

Common or Black Huckleberry.

Common. Moist or dry ground in various situations. May—June.

The forma **GLAUCOCARPA** (Robinson) Mackenzie (glaucous-fruited), Blue Huckleberry, is rare or occasional growing with the typical form.

The common Huckleberry, extensively gathered for market

and for home consumption. The fruit of the blue is often larger and better than that of the ordinary black form.

**VACCINIUM L.** Blueberry. Cranberry.

**Vaccinium stamineum L.** (having prominent stamens).

*Polycodium stamineum* Greene.

Buckberry. Deerberry. Squaw Huckleberry.

Dry woods: Waterbury (J. M. Richardson), New Canaan (E. H. Baldwin), and occasional in western Litchfield County.

Late May—June.

A desirable shrub for planting in shaded situations.

**Vaccinium pennsylvanicum Lam.**

Dwarf Blueberry. Low Sweet or Early Sweet Blueberry.

Common. Dry rocky or sandy woods. May; fruit late June—early July.

The var. *ANGUSTIFOLIUM* (Ait.) Gray (narrow-leaved) is rare: Voluntown (Graves).

The fruit is sweet and delicious but not usually plentiful.

**Vaccinium pennsylvanicum Lam., var. nigrum Wood** (black).

*Vaccinium nigrum* Britton.

Low Black Blueberry.

Rare. Rocky woods: Salisbury (Mrs. C. S. Phelps). May.

**Vaccinium canadense Kalm.**

Sour-top or Velvet-leaf Blueberry.

Rare. Cold moist woods at an altitude of 1900 ft., Salisbury (Weatherby). May; fruit Aug.

**Vaccinium vacillans Kalm** (swaying).

Late Low Blueberry.

Common. Dry or rocky places. May; fruit July.

Fruit inferior to that of the following species.

**Vaccinium corymbosum L.** (corymbose).

High-bush or Tall Blueberry. Common or Swamp Blueberry or Bilberry.

Common. Swamps, borders of ponds and drier places. May—June; fruit late July—Aug.

Fruit much gathered for market and for domestic use.

**Vaccinium corymbosum L., var. amoenum (Ait.) Gray** (pleasant).

Swamps and wet places. Occasional in the vicinity of the coast. May — early June.

**Vaccinium atrococcum** (Gray) Heller (having black berries).  
*Vaccinium corymbosum* L., var. *atrococcum* Gray.  
Black High Blueberry.

Occasional. Swampy woods and wet thickets. May — June.

**Vaccinium Oxycoccus** L. (sour berry).  
*Oxycoccus Oxycoccus* MacM.  
Small Cranberry.

Sphagnum bogs: Willington (Graves), Bloomfield (Weatherby), Southington (Andrews), Bethany (Harger), Stratford (Eames). Becoming occasional in northwestern Connecticut. May — June; fruit Sept. and through the winter.

The var. *ovalifolium* Michx. (oval-leaved), var. *intermedium* Gray's Manual ed. 7, occurs at Willington, Norfolk and Salisbury (Bissell), Simsbury (A. W. Driggs), Cornwall (E. E. Brewster).

**Vaccinium macrocarpon** Ait. (large-fruited).  
*Oxycoccus macrocarpus* Pursh.  
Cranberry. Large or American Cranberry.

Occasional or frequent. Wet meadows, bogs and low pastures. June — Aug.; fruit Sept.

Extensively cultivated on Cape Cod, Massachusetts, and in some parts of New Jersey, for its fruit, which is of much value and is sold everywhere in the markets. "Turkey and Cranberry Sauce" is almost a national dish.

## PLUMBAGINACEAE. LEADWORT FAMILY.

**LIMONIUM** Hill. Sea Lavender. Marsh Rosemary.

**Limonium carolinianum** (Walt.) Britton.

*Statice Limonium* L., var. *caroliniana* Gray.

Marsh Rosemary. Sea Lavender. Ink-root. Canker-root.

Common along the coast on salt marshes and meadows. July — Sept.

The root has long been used in medicine.

## PRIMULACEAE. PRIMROSE FAMILY.

**HOTTONIA** L. Featherfoil. Water Violet.

**Hottonia inflata** Ell. (inflated).

Water Violet. American Featherfoil.

Ditches and shallow water. Rare or local near the coast; not reported far inland. June.

**SAMOLUS** L. Water Pimpernel. Brook-weed.

**Samolus floribundus** HBK. (abounding in flowers).

*Samolus Valerandi* L., var. *americanus* Gray.

Water Pimpernel. Brook-weed.

Occasional in salt or brackish marshes along the coast, and rare inland as at Ridgefield (Eames & C. C. Godfrey). June — Oct.

**LYSIMACHIA** L. Loosetrife.

**Lysimachia vulgaris** L. (common).

Golden Loosetrife.

Rare. Wilton, along roadside (Miss A. E. Carpenter). July. Fugitive from Europe.

**Lysimachia punctata** L. (dotted).

Spotted Loosetrife.

Rare. Escaped from gardens to roadsides and waste places: Norwich (W. A. Setchell, Mrs. E. E. Rogers & Graves), Preston (Graves), Guilford (G. H. Bartlett), Westport (Eames), Wilton (Miss A. E. Carpenter). June — July. Naturalized from Europe.

**Lysimachia quadrifolia** L. (four-leaved).

Cross-wort.

Common. Woods and thickets. June — July.

The root is medicinal.

× **Lysimachia producta** (Gray) Fernald (lengthened).

*Lysimachia foliosa* Small.

Rare. Fields and thickets, mostly near the coast: Ledyard (Graves), Groton and Putnam (Harger), Stratford and Fairfield (Eames), Norwalk (Bissell), Stamford (W. H. Hoyt). June — July.

This is regarded as a hybrid between *Lysimachia quadri-  
folia* and *Lysimachia terrestris*.

**Lysimachia terrestris** (L.) BSP. (terrestrial).

*Lysimachia stricta* Ait.

Frequent. Low grounds and open swamps. Late June —  
Aug.

**Lysimachia Nummularia** L. (coin-like, referring to the shape  
of the leaves).

Moneywort. Yellow Myrtle.

Frequent. Lawns, roadsides and waste places, usually in  
moist soil. June — July. Naturalized from Europe.

An escape from gardens and often a pest in lawns.

The plant is medicinal, in domestic practice applied to  
sores and wounds.

**Lysimachia thyrsoiflora** L. (having its flowers in a thyrse).

*Naumburgia thyrsoiflora* Duby.

Tufted Loosestrife.

Rare or local. Wet places about ponds: North Branford  
(G. H. Bartlett), Bloomfield and East Granby (Weatherby),  
Plainville (J. N. Bishop), Southington (Andrews), Hamden  
and Litchfield (Harger), Norfolk (J. H. Barbour), Kent (C.  
K. Averill), Salisbury (Mrs. C. S. Phelps, Bissell). June —  
early July.

**STEIRONEMA** Raf.

**Steironema ciliatum** (L.) Raf. (fringed).

Fringed Loosestrife.

Frequent. Thickets and low grounds. July — Aug.

**Steironema lanceolatum** (Walt.) Gray (lance-shaped).

Swamps and borders of ponds and streams. Rare inland:  
Ledyard and North Stonington (Graves), New Milford (I.  
Holden & Baker). Occasional near the coast. July — Aug.

**TRIENTALIS** L. Chickweed Wintergreen.

**Trientalis americana** (Pers.) Pursh.

Star Flower.

Occasional to frequent. Rich, usually moist woods.  
May — June.

**ANAGALLIS L.** Pimpernel.**Anagallis arvensis L.** (of cultivated ground).

Common Pimpernel. Poor Man's Weather-glass.

Sandy or rocky ground and waste places. Rare inland: Southington (Andrews), Oxford (Harger). Frequent on or near the coast. June—Sept. Naturalized from Europe.

The var. *CAERULEA* (Schreb.) Ledeb. (sky-blue) is rare in lawns or waste ground: Granby (I. Holcomb), Norwalk (Miss A. E. Carpenter).

**EBENACEAE. EBONY FAMILY.****DIOSPYROS L.** Persimmon.**Diospyros virginiana L.**

Common Persimmon.

Rare. In New Haven, at Lighthouse Point, there is a grove of about one hundred and twenty-five small trees on the beach not far from the water's edge. Here they are exposed to fierce winds and winter storms which drive the salt water up around them, consequently they are not in a flourishing condition. This station is said to have been known as early as 1846, when the ground where they now stand was grassy and fertile. This is the only known station for this species in New England, and it is possible that it may not be native here but introduced from some more southern locality. July; fruit Oct.

**OLEACEAE. OLIVE FAMILY.****FRAXINUS L.** Ash.**Fraxinus americana L.**

White Ash.

Frequent. Woods and fields. May.

The wood is hard, white and tough; valued for interior finish, furniture, carriage-building, ladders, oars, tool-handles and agricultural implements. The bark is medicinal.

**Fraxinus pennsylvanica Marsh.**

*Fraxinus pubescens* Lam.

*Fraxinus Darlingtonii* Britton.

Red, Brown or River Ash.

Frequent. Along streams and in swamps, sometimes in drier places. May.

The timber is of less value than that of the White Ash, though used for furniture and the interior finish of buildings. Its medicinal properties are the same as those of *Fraxinus americana*.

**Fraxinus pennsylvanica** Marsh., var. *lanceolata* (Borkh.) Sarg.  
(lance-shaped).

*Fraxinus viridis* Michx.

*Fraxinus lanceolata* Borkh.

Green Ash.

Rare. Low grounds: Norwich, Bozrah and Stonington (Graves), Rocky Hill (Andrews), New Haven (D. C. Eaton). May.

**Fraxinus nigra** Marsh. (black).

*Fraxinus sambucifolia* Lam.

Black, Swamp, Basket or Hoop Ash.

Occasional. Swamps and along streams. May.

The wood is much used for interior finish, cabinet work, barrel hoops and basket making. Medicinal properties the same as those of *Fraxinus americana*.

**Fraxinus excelsior** L. (taller).

Rare. Fairfield, roadside distant from any known source of origin (Eames). May. Native of the Old World.

### FORSYTHIA Vahl.

**Forsythia viridissima** Lindl. (very green).

Golden Bell.

Rare. Wethersfield, escaped from cultivation to a pasture (H. S. Clark & Bissell). May. Fugitive from Asia.

### SYRINGA L. Lilac.

**Syringa vulgaris** L. (common).

Common Lilac.

Occasional. Escaped from cultivation to roadsides and about abandoned house-sites. May. Naturalized from Europe.



**LIGUSTRUM L.** Privet.**Ligustrum vulgare L.** (common).

Privet. Prim.

Roadsides and thickets as an escape from cultivation. Rare inland: Thompson and Wethersfield (Bissell), Woodbury and Oxford (Harger). Occasional or frequent near the coast. June—July. Naturalized from Europe.

**GENTIANACEAE. GENTIAN FAMILY.****SABATIA Adans.****Sabatia campestris Nutt.** (growing in fields).

Rare. Bridgeport, in waste ground (Eames). Aug.—Sept. Fugitive from the Southwest.

**Sabatia stellaris Pursh** (star-shaped).Sea or Marsh Pink. *Sabatia*.

Occasional or local on borders of salt marshes along the coast. July—Sept.

Rarely occurs with white flowers.

**Sabatia dodecandra (L.) BSP.** (having twelve stamens).*Sabatia chloroides* Pursh.

Large Marsh Pink.

Rare. Marshes near the coast: Old Lyme (F. H. Dart), Saybrook (Berzelius Catalogue), Guilford (Miss K. Dudley). July—Sept.

**GENTIANA L.** Gentian.**Gentiana crinita Froel.** (having long hairs; referring to the fringed corolla).

Fringed Gentian.

Occasional or local. Moist meadows and pastures. Sept.—Oct.

The gentian root of medicine, much used as a bitter tonic, comes from *Gentiana lutea* of Europe, but our American species have similar properties and are also used somewhat in the same way.

**Gentiana quinquefolia L.** (five-leaved).*Gentiana quinqueflora* Hill.

Moist fields, roadsides and thickets. New Milford (C. D. Bishop, C. K. Averill), Litchfield (Miss E. H. Thompson), Norfolk (Miss M. C. Seymour), and occasional or frequent in northwestern Connecticut. Sept.—Oct.

**Gentiana Andrewsii** Griseb.

Closed Gentian. Bottle Gentian.

Occasional or frequent. Moist places and along streams. Sept.—Oct.

Sometimes occurs with white flowers.

**BARTONIA** Muhl.

**Bartonia virginica** (L.) BSP.

*Bartonia tenella* Muhl.

Occasional or frequent. Moist meadows and woods. July — Sept.

**Bartonia paniculata** (Michx.) Robinson (panicled).

*Bartonia lanceolata* Small.

Rare or local. Wet woods and meadows: Griswold (Harger), Hartford (H. S. Clark), Plymouth (Bissell), Stratford (Eames), New Milford (C. K. Averill). Aug.—Sept.

**MENYANTHES** L. Buckbean.

**Menyanthes trifoliata** L. (three-leaved).

Bog Bean. Marsh Trefoil. Water Shamrock.

Bogs, borders of ponds and in wet meadows. Occasional or local in most parts of the state; frequent in Litchfield County. May—June.

The leaves and rootstock are used medicinally. In parts of northern Europe it is used as a substitute for hops.

**NYMPHOIDES** Hill. Floating Heart.

**Nymphoides lacunosum** (Vent.) Fernald (of ponds).

*Limnanthemum lacunosum* Griseb.

Floating Heart.

Rare or local. In ponds and rivers: Groton and Lyme (Graves), Ledyard (W. A. Setchell), Branford (W. A. Setchell & Harger), Woodstock, Mansfield and Glastonbury

(Weatherby), Windsor (H. S. Clark, Weatherby & Bissell), Southington (Andrews), Litchfield (C. K. Averill), Danbury (F. Mills), Salisbury (Mrs. C. S. Phelps). July — Aug.

## APOCYNACEAE. DOGBANE FAMILY.

### VINCA L. Periwinkle.

#### **Vinca minor** L. (smaller).

Common Periwinkle. Blue Myrtle.

Occasional. Roadsides near dwellings and about cemeteries, escaped from cultivation. April — May. Naturalized from Europe.

Rarely occurs with white or variegated flowers or leaves.

### APOCYNUM L. Dogbane. Indian Hemp.

#### **Apocynum androsaemifolium** L. (having leaves like *Hypericum Androsaemum*, the Tutsan).

Spreading Dogbane. Honey-bloom.

Frequent. Fields and roadsides. June — Aug.

The plant is medicinal.

#### **Apocynum medium** Greene (intermediate).

*Apocynum Milleri* Britton.

*Apocynum urceolifer* G. S. Miller.

Occasional or frequent. Dry fields, roadsides and open woods. June — Aug.

Very variable and several forms have been described.

#### **Apocynum cannabinum** L. (hemp-like).

American, Canadian or Indian Hemp.

Frequent. Fields, thickets and roadsides, often in sterile soil. June — July. The so-called *Apocynum album* Greene is a dwarfed or prostrate form of this species growing on rocky or sandy banks of streams or ponds, and is occasional.

The fibre has been used as hemp. The rootstock of this and closely allied species has active medicinal properties and is officinal.

#### **Apocynum cannabinum** L., var. *pubescens* (R. Br.) DC. (downy).

*Apocynum pubescens* R.Br.

Rare. Dry open places: East Lyme (Graves), East Haven and Southington (Bissell), Huntington (Harger), Bridgeport (Eames). July.

## ASCLEPIADACEAE. MILKWEED FAMILY.

### ASCLEPIAS L. Milkweed. Silkweed.

#### **Asclepias tuberosa** L. (tuberous).

*Asclepias tuberosa* L., var. *decumbens* Pursh.

*Asclepias decumbens* L.

Butterfly-weed. Pleurisy-root.

Dry fields and roadsides. Rare in Litchfield County, occasional to frequent in other sections. July — Aug.

The root was formerly officinal and is used medicinally.

#### **Asclepias purpurascens** L. (purplish).

Purple Milkweed.

Occasional or frequent. Moist fields and open pastures.

June — July.

#### **Asclepias incarnata** L. (flesh-colored).

Swamp Milkweed.

Borders of ponds and streams. Occasional along the Connecticut and Housatonic Rivers and in the northwestern part of the state; rare elsewhere. July — Aug.

#### **Asclepias incarnata** L., var. **pulchra** (Ehrh.) Pers. (beautiful).

*Asclepias pulchra* Ehrh.

Swamp Milkweed.

Swamps and wet places. Frequent except in Litchfield County where it is occasional or rare. July — Aug.

The root is medicinal.

#### **Asclepias syriaca** L.

*Asclepias Cornuti* Dcne.

Common Milkweed or Silkweed.

Common. Roadsides, pastures and waste places. July — Aug.

The root is medicinal. The young shoots are used as Asparagus. Sometimes troublesome as a weed.

**Asclepias amplexicaulis** Sm. (stem-clasping; referring to the leaves).

*Asclepias obtusifolia* Michx.

Open ground in sandy soil. Rare or local in southern Fairfield County, occasional or frequent elsewhere. June—July.

**Asclepias phytolaccoides** Pursh (like *Phytolacca*, the Poke-weed).

*Asclepias exaltata* Muhl. (?).

Poke Milkweed.

Occasional. Moist woods and thickets. Late June—July.

**Asclepias variegata** L. (of various colors).

Rare. Dry woods: Norwich (Miss Wohlforth), East Lyme (Miss A. M. Ryon), Portland (Dr. E. J. Thompson). July.

**Asclepias quadrifolia** Jacq. (four-leaved).

Occasional. Dry woods. June—July.

**Asclepias verticillata** L. (whorled).

Whorled Milkweed.

Occasional or local. Sandy or sterile ground. July—Aug.

#### ACERATES Ell. Green Milkweed.

**Acerates viridiflora** Ell. (green-flowered).

Rare. Dry open ground: East Haven (O. Harger, H. S. Clark), Oxford (Harger), New Milford (Eames). July—Aug.

The var. *LANCEOLATA* (Ives) Gray (lance-shaped), var. *Ivesii* Britton, has been found at New Haven (E. Ives).

#### CYNANCHUM L.

**Cynanchum nigrum** (L.) Pers. (black).

*Vincetoxicum nigrum* Moench.

Black Swallow-wort.

Rare. Roadsides and fields as an escape from cultivation: Stonington (W. E. Britton), New London (Graves), New Haven (H. S. Clark, Harger), Oxford (Harger), Orange and Bridgeport (Eames), Stamford (W. H. Hoyt). June—July. Adventive from Europe.

## CONVOLVULACEAE. CONVOLVULUS FAMILY.

## IPOMOEA L. Morning Glory.

***Ipomoea coccinea* L. (red).***Quamoclit coccinea* Moench.

Small Red Morning Glory.

Rare. Southington, in waste ground (Andrews), Orange (Harger). July—Sept. Fugitive from the Southwest or from tropical America.

***Ipomoea hederacea* Jacq. (like *Hedera*, the Ivy).**

Ivy-leaved Morning Glory.

Rare. Roadsides and waste ground as an escape from gardens: New London (Graves), Glastonbury (Bissell), Stratford (Eames), Oxford (Harger), Darien (Miss A. E. Carpenter). Aug.—Sept. Adventive from tropical America.

***Ipomoea purpurea* (L.) Roth (purple).**

Common Morning Glory.

Occasional. Waste places and about old gardens as an escape from cultivation. July—Sept. Adventive or fugitive from tropical America.

***Ipomoea pandurata* (L.) G. F. W. Mey. (fiddle-shaped).**

Wild Potato-vine. Man-of-the-Earth.

Rare. Dry soil of upland pastures: New Milford (J. W. Robbins), Kent (E. H. Austin). June—Aug.

The root is medicinal.

## CONVOLVULUS L. Bindweed.

***Convolvulus spithameus* L. (a span long).**

Rare or local. Gravelly hillsides: Southington (Andrews), Oxford (Harger), Southbury (B. B. Bristol), New Milford (C. K. Averill & E. H. Austin), Salisbury (Mrs. C. S. Phelps). May—June.

***Convolvulus japonicus* Thunb.**

California Rose.

Rare. Sandy fields as an escape from cultivation, mostly in the double-flowered form: Plainville (Bissell), Southington (Andrews), Trumbull (Eames), Wilton (Miss A. E. Carpenter). July. Adventive from eastern Asia.

**Convolvulus sepium** L. (of hedges).

*Convolvulus sepium* L., var. *americanus* Sims.

Wild Morning Glory. Hedge Bindweed.

Frequent. Sandy fields, roadsides and waste places. June — Aug.

The root is medicinal.

**Convolvulus sepium** L., var. **pubescens** (Gray) Fernald (downy).

*Convolvulus sepium* L., var. *repens* Gray.

*Convolvulus repens* L.

Open fields or stony and gravelly places on and near the coast. Frequent eastward, becoming occasional westward. June — Aug.

The root is medicinal.

**Convolvulus arvensis** L. (of cultivated ground).

Field Bindweed.

Rare. Waste ground and roadsides: New London (Graves), Hartford (H. S. Clark, Bissell), New Haven (Miss A. E. Carpenter), Southington (Andrews), Ansonia (Harger), Orange and Bridgeport (Eames), Westport (Eames & C. C. Godfrey). July. Adventive from Europe.

**CUSCUTA** L. Dodder. Love Vine.**Cuscuta Epithymum** Murr. (upon thyme).

Clover Dodder.

Rare. Clover fields: Mansfield (Mrs. C. S. Phelps), East Windsor and Granby (Bissell), Southington (Andrews), Oxford (Harger), Litchfield (Miss E. H. Thompson), East Lyme (Miss A. M. Ryon), Fairfield (Eames). July — Sept. Adventive from Europe.

**Cuscuta arvensis** Beyrich (of cultivated ground).

Field Dodder.

Rare. In fields: Granby (Bissell), Oxford and Southbury (Harger). July — Sept.

**Cuscuta Coryli** Engelm. (of hazel).

*Cuscuta inflexa* Engelm.

Hazel Dodder.

Rare. On shrubs: Norwich (Mrs. E. E. Rogers). Aug.

**Cuscuta Gronovii** Willd.

Dodder. Love Vine.

Common. On herbs and low shrubs, often very plentiful in open swamps. July — Sept.

**Cuscuta compacta** Juss. (compact).

Rare or local. On shrubs: Groton (Graves), Franklin (R. W. Woodward), Milford, Stratford and Westport (Eames). Aug.—Sept.

## POLEMONIACEAE. POLEMONIUM FAMILY.

## PHLOX L.

**Phlox paniculata** L. (panicled).

*Phlox acuminata* Pursh.

*Phlox glandulosa* Shuttlw.

*Phlox amplifolia* Britton.

Garden Phlox.

Occasional. Roadsides and about old gardens. Aug.—Sept. Adventive from the Southwest.

**Phlox maculata** L. (spotted).

Wild Sweet William.

Rare. Escaped from cultivation to roadsides and waste places: Waterford (Graves), Franklin (R. W. Woodward & Weatherby), Fairfield, well established at two localities (Eames). June — Aug. In Connecticut adventive from the South or West.

The var. CANDIDA Michx. (shining white) occurs at Fairfield (Eames).

**Phlox pilosa** L. (hairy).

Rare. Moist grassy bank, Southbury (Harger). May — June.

This is the only reported station for the species in New England.

**Phlox subulata** L. (awl-shaped).

Ground or Moss Pink.

Rare to occasional. Escaped from cultivation, often in and near old cemeteries. May. Adventive from the West.

It is seen rarely with white flowers.



**POLEMONIUM L.** Greek Valerian.**Polemonium Van-Bruntiae** Britton.*Polemonium coeruleum* Gray's Manual ed. 6, not L.

Rare. In swamps: Salisbury (Mrs. C. S. Phelps).  
June—July.

**HYDROPHYLLACEAE. WATERLEAF FAMILY.****HYDROPHYLLUM L.** Waterleaf.**Hydrophyllum virginianum L.**

Waterleaf.

Rare or local. Moist or wet shady places: South Windsor (Weatherby), Waterbury (W. H. Paton), Wilton (Miss E. A. Carpenter, Eames), Norwalk (G. P. Ells), North Canaan (H. N. Adams, M. B. Tobey), Salisbury (Mrs. C. S. Phelps). June.

**ELLISIA L.****Ellisia Nyctelea L.***Macrocalyx Nyctelea* Kuntze.

Rare. New London, in a pasture (Mrs. E. M. Tilton).  
May—July. Fugitive from the South or West.

**PHACELIA Juss.****Phacelia viscida** (Benth.) Torr. (sticky).

Rare. Meriden, escaped from cultivation and spontaneous in a spot on which muck had been deposited (Miss E. J. Leonard). June. Fugitive from California.

**Phacelia Purshii** Buckley.

Rare. Branford, waste ground at Short Beach (Miss E. J. Leonard). May—June. Fugitive from the Central States.

**BORAGINACEAE. BORAGE FAMILY.****CYNOGLOSSUM L.** Hound's Tongue.**Cynoglossum officinale L.** (of the shops).

Common Hound's Tongue.

Rare. Roadsides and pastures: Ledyard (Graves), Meriden and New Haven (Harger), Bridgeport (C. K.

Averill), Salisbury (Mrs. C. S. Phelps). June — Aug. Adventive from Europe.

**Cynoglossum boreale** Fernald (northern).

*Cynoglossum virginicum* of Gray's Manual ed. 6 in part.

Wild Comfrey.

Rare. Rocky woods: East Haven (J. A. Allen), Meriden (Andrews), Norfolk (J. H. Barbour), Barkhamsted and Salisbury (Mrs. C. S. Phelps), Cornwall (E. E. Brewster). June — July.

**LAPPULA** Moench. Stickseed.

**Lappula virginiana** (L.) Greene.

*Echinospermum virginicum* Lehm.

Stickseed. Beggar's Lice.

Frequent. Woods, hedge-rows and thickets in dry ground. July — Aug.

**Lappula echinata** Gilib. (prickly).

*Echinospermum Lappula* Lehm.

*Lappula Lappula* Karst.

Rare. Waste places: New Haven (Merrill), Seymour (Harger), New Milford (Eames & E. H. Austin), Salisbury (Mrs. C. S. Phelps). July — Aug. Adventive from Europe.

**AMSINCKIA** Lehm.

**Amsinckia lycopoides** Lehm. (like *Lycopsis*, the Bugloss).

Rare. Cultivated or waste ground: Hartford (Bissell), Southington (Andrews), Salisbury (Mrs. C. S. Phelps). May — July. Fugitive from the Pacific Coast.

**SYMPHYTUM** L. Comfrey.

**Symphytum officinale** L. (of the shops).

Common Comfrey.

Rare or local. Roadsides, waste places and along streams, usually in moist ground and as an escape from cultivation. June — Aug. Naturalized from Europe.

Formerly used medicinally.

**Symphytum tuberosum** L. (tuberous).

Rare. Ditches and wet places: Guilford (G. H. Bartlett), Southington (Andrews). May — June. Adventive from Europe.

**Symphytum asperrimum** Donn (very rough).

Rough Comfrey.

Rare. Moist roadsides: Oxford (Harger), Kent (Eames). June — Aug. Adventive from Europe.

**BORAGO** L. Borage.**Borago officinalis** L. (of the shops).

Borage.

Rare. Bridgeport, escaped from gardens (I. Holden &amp; Baker). June — Sept. Fugitive from Europe.

Cultivated for ornament and for its supposed medicinal properties.

**ANCHUSA** L. Alkanet.**Anchusa officinalis** L. (of the shops).

Rare. Waste ground in Fairfield (Eames). June — Aug. Adventive from Europe.

**MYOSOTIS** L. Forget-me-not. Scorpion Grass.**Myosotis scorpioides** L. (scorpion-like).*Myosotis palustris* Hill.

True Forget-me-not.

Rare. Along streams as an escape from cultivation: North Branford and Oxford (Harger), Stratford (Eames), Southington (Andrews). May — June. Native of Europe.

**Myosotis laxa** Lehm. (loose).

Wild Forget-me-not.

Frequent. Along streams and in wet places. May — June.

**Myosotis arvensis** (L.) Hill (of cultivated ground).

Rare. In grassland: Norwich (Mrs. E. E. Rogers), Ledyard (Graves), Granby (I. Holcomb). May — June.

**Myosotis virginica** (L.) BSP.*Myosotis verna* Nutt.

Occasional or local. Dry, sterile and rocky places. May — June.

**LITHOSPERMUM** L. Gromwell. Puccoon.**Lithospermum arvense** L. (of cultivated ground).

Corn Gromwell. Stone-seed.

Occasional. Sandy or waste places. May—June. Naturalized from Europe.

**Lithospermum officinale** L. (of the shops).

Common Gromwell.

Rare or local. Dry fields and in rocky ground: New Britain (Bissell), Southington (Andrews), North Canaan (Weatherby), New Milford (A. E. Blewitt). June—Sept. Naturalized from Europe.

**ONOSMODIUM** Michx. False Gromwell.

**Onosmodium virginianum** (L.) A. DC.

Gravel-weed. Pearl-plant. Wild Job's Tears. False Gromwell.

Rare. Dry or sandy ground: Preston (Graves), East Haddam (Dr. E. J. Thompson), Hartford and Windsor (H. S. Clark), New Haven (D. C. Eaton), Fairfield (Eames), Ansonia and Southbury (Harger), Kent (E. H. Austin). June—July.

The root and seeds are medicinal.

**ECHIUM** L. Viper's Bugloss.

**Echium vulgare** L. (common).

Viper's Bugloss. Blue-weed. Blue Devil.

Open sandy or sterile places. Rare or local over most of the state: Montville (Graves), Windsor (H. S. Clark), Southington (Andrews), New Haven (Harger), New Hartford (Andrews & Bissell). Becoming occasional in western Connecticut. July—Aug. Naturalized from Europe.

Sometimes occurs with rose-colored flowers. A showy plant when in bloom, but a bad weed, difficult to eradicate.

**VERBENACEAE. VERVAIN FAMILY.**

**VERBENA** L. Vervain.

**Verbena officinalis** L. (of the shops).

European Vervain.

Rare. Waste ground: New Haven (J. S. Smith), Bridgeport (Eames). June—Sept. Fugitive from the Old World.

The herb was reputed to have many desirable properties and was highly esteemed in old times, but is rarely if ever used now.

**Verbena urticaefolia** L. (having leaves like *Urtica*, the Nettle).  
White Vervain.

Frequent. Fields, roadsides and waste ground. July—Aug.

**Verbena angustifolia** Michx. (narrow-leaved).

Rare or local. Sandy fields: Waterford (Graves), New Haven (Harger), Orange (Eames, Andrews & Bissell), Stratford (I. Holden & Baker), Southington (Andrews & Bissell), Kent (E. H. Austin, Eames & C. C. Godfrey), Salisbury (Mrs. C. S. Phelps). June—July.

**Verbena hastata** L. (spear-shaped).

*Verbena hastata* L., var. *pinnatifida* Britton.

Blue Vervain.

Frequent. Roadsides, fields and waste places. July—Aug. A hybrid of this with *Verbena urticaefolia* has been collected at Oxford (Harger).

Flowers sometimes rose color. The root and leaves are medicinal and are occasionally used in domestic practice.

**Verbena stricta** Vent. (upright; straight).

Hoary Vervain.

Rare. Fields and waste places: Old Lyme (Graves), Naugatuck (Mrs. C. H. Lyman), Bridgeport (Eames). June—Aug. Adventive from the West.

**Verbena bracteosa** Michx. (having bracts).

Rare or local. Waste ground: Hebron (Graves), Naugatuck (Mrs. C. H. Lyman), Bridgeport (Eames), Winchester (M. L. Fernald & Weatherby). June—Aug. Adventive from the West.

**Verbena canadensis** (L.) Britton.

*Verbena Aubletia* Jacq.

*Verbena Drummondii* of authors.

Verbena.

Rare. Escaped from old gardens: Southington (Bis-

sell), Oxford (Harger). June — Sept. Fugitive from the Southwest.

Many of the cultivated forms of *Verbena* are derived from this species.

## LABIATAE. MINT FAMILY.

### AJUGA L. Bugle Weed.

#### *Ajuga genevensis* L.

Erect Bugle.

Rare. Along roadsides and about dwellings as an escape from cultivation: Middletown (Miss Day), New Haven (D. C. Eaton), Southington (Andrews & Bissell), Plainville (J. N. Bishop), Bristol (W. A. Terry), Milford (Eames & C. C. Godfrey). May — June. Adventive from Europe.

Flowers sometimes rose-colored or white.

### TEUCRIUM L. Germander.

#### *Teucrium canadense* L.

American Germander. Wood Sage.

Rare or occasional. Fields, roadsides and in alluvial soil along streams. July — Aug.

#### *Teucrium canadense* L., var. *littorale* (Bicknell) Fernald (of the sea shore).

*Teucrium littorale* Bicknell.

Coast Germander.

Frequent on beaches and about salt meadows along the coast. July — Aug.

### TRICHOSTEMA L. Blue Curls.

#### *Trichostema dichotomum* L. (forked in pairs).

Blue Curls. Bastard Pennyroyal.

Common. Dry sandy or sterile soil. July — Sept.

Sometimes occurs with pink flowers.

#### *Trichostema lineare* Walt. (very narrow).

Rare. Milford, in sandy soil (J. W. Robbins, 1829). July — Aug.

**SCUTELLARIA L.** Skullcap.**Scutellaria lateriflora L.** (side-flowering).

Mad-dog Skullcap.

Frequent. Wet places, usually in shade. July—Sept. Sometimes occurs with white flowers. The plant was formerly used as a remedy for hydrophobia, whence its common name. It is officinal in medical practice.

**Scutellaria galericulata L.** (having a small helmet; referring to the calyx).

Marsh Skullcap.

Occasional. Borders of ponds, wet places along streams, open swamps or sometimes also on dry banks or even in sand near the coast. June—Aug.

Sometimes occurs with pink flowers.

**Scutellaria integrifolia L.** (entire-leaved).

Rare. Sandy fields and in woodland, either dry or moist: Union (G. Towne), Norwich (Mrs. E. E. Rogers), Lyme (Graves), East Haddam (W. E. Nichols), East Hartford (Weatherby), East Windsor and Rocky Hill (Bissell), Hartford (H. S. Clark), Windsor Locks (Miss A. E. Carpenter). July.

**Scutellaria parvula Michx.** (small), var. *ambigua* (Nutt.)

Fernald (doubtful).

*Scutellaria parvula* Britton, not Michx.

Rare. Dry sandy or rocky ground: Guilford (G. W. Hawes), East Haven (H. C. Beardslee, Harger), Plainville (J. N. Bishop), Orange (A. H. Young), Salisbury (Mrs. C. S. Phelps). June—Aug.

**MARRUBIUM L.** Horehound.**Marrubium vulgare L.** (common).

Common Horehound.

Rare or occasional. Roadsides and waste ground as an escape from cultivation. June—July. Naturalized from Europe.

Used as a cough medicine and in candy. An officinal medicine.

**SIDERITIS L.** Ironwort.

**Sideritis montana L.** (of mountains).

Rare. Naugatuck, one plant in waste ground (A. E. Blewitt). July. Fugitive from southeastern Europe.

**AGASTACHE** Clayt. Giant Hyssop.

**Agastache nepetoides (L.) Kuntze** (like *Nepeta*, the Catnip).  
*Lophanthus nepetoides* Benth.

Rare or local. Rocky woods and thickets: Meriden (D. C. Eaton), Southington (Andrews), Derby (Harger), Norwalk (Bissell). Aug.—Sept.

**Agastache scrophulariaefolia (Willd.) Kuntze** (having leaves like *Scrophularia*, the Figwort).

*Lophanthus scrophulariaefolius* Benth.

Rare or occasional. Woods, thickets and waste ground, either moist or dry. July — Aug.

The var. **MOLLIS** (Fernald) Heller (soft) occurs at Fairfield (Eames).

**Agastache Foeniculum (Pursh) Kuntze** (like *Foeniculum*, the Fennel; referring to its odor).

*Lophanthus anisatus* Benth.

*Agastache anethiodora* Britton.

Rare. Waste ground: Portland (Mrs. F. W. Starmer). Aug. Fugitive from the West.

**NEPETA L.** Cat Mint.

**Nepeta Cataria L.** (of a cat).

Catnip.

Frequent. Fields and waste ground. July — Oct. Naturalized from Europe.

The herb is well known to have strong attraction for cats. Much used in domestic medical practice.

**Nepeta hederacea (L.) Trevisan** (like *Hedera*, the Ivy).

*Nepeta Glechoma* Benth.

*Glechoma hederacea* L.

Gill-over-the-Ground. Ground Ivy. Gill. Robin Runaway.

Frequent. Moist shaded places in fields, waste ground



and about old yards. April—June. Naturalized from Europe.

Sometimes a bad weed in lawns and gardens. Formerly used in domestic medical practice.

**DRACOCEPHALUM L.** Dragon Head.

**Dracocephalum parviflorum** Nutt. (small-flowered).

Dragon Head.

Rare. Southington, one plant as a fugitive in a garden (Andrews); also occurs at New Milford (Eames & E. H. Austin). June—July. Native from New York westward.

**PRUNELLA L.** Self-heal.

**Prunella vulgaris** L. (common).

*Brunella vulgaris* of Manuals.

Common Self-heal or Heal-all. Carpenter-weed.

Common. Fields, woods and waste ground, both dry and moist. June—Oct.

Often a troublesome weed in lawns and difficult to eradicate. Formerly used as a medicine. Sometimes occurs with white flowers.

**PHYSOSTEGIA** Benth. False Dragon Head.

**Physostegia virginiana** (L.) Benth.

Lion's Heart.

Roadsides and waste ground. Occasional in New London County, becoming rare or local northward and westward. Aug. Introduced from the West.

**GALEOPSIS L.** Hemp Nettle.

**Galeopsis Tetrahit** L.

Common Hemp Nettle.

Rare or occasional. Roadsides and waste grounds. July—Sept. Introduced from Europe.

A troublesome weed in some parts of northern New England.

**Galeopsis Ladanum** L.

Red Hemp Nettle.

Rare. Naugatuck, in waste ground (B. B. Bristol). June—July. Fugitive from Europe.

**LAMIUM L.** Dead Nettle.

**Lamium amplexicaule L.** (stem-embracing; referring to the leaves).

Henbit.

Waste or cultivated ground. Occasional in Fairfield County; rare or local elsewhere. May—Oct. Naturalized from Europe.

**Lamium purpureum L.** (purple).

Red Dead Nettle.

Rare. Waste ground: Fairfield (Eames). May—June. Adventive from Europe.

**Lamium hybridum Vill.** (mongrel).

Local. Waste or cultivated ground: Cornwall, becoming a weed (T. S. Gold). May—June. Adventive from Europe.

**Lamium maculatum L.** (spotted).

Spotted Dead Nettle.

Rare. Along roadsides and in yards as an escape from cultivation: Norwich (Mrs. E. E. Rogers), New Haven (D. C. Eaton), Southington (Andrews & Bissell), Woodbury (Harger). May—Oct. Introduced from Europe.

Sometimes occurs with white flowers.

**LEONURUS L.** Motherwort.

**Leonurus Cardiaca L.** (of the heart).

Common Motherwort. Lion's Tail. Throw-wort.

Frequent. Roadsides and waste places. June—July. Naturalized from Europe.

Formerly used in domestic medical practice, especially for diseases of women, whence the common name.

**BALLOTA L.** Fetid Horehound.

**Ballota nigra L.** (black).

Black Horehound.

Rare. An escape to roadsides: New Haven (D. C. Eaton), Milford (Eames). June—Aug. Native of Europe.

Formerly cultivated because of supposed medicinal qualities.

**STACHYS L.** Hedge Nettle.**Stachys hyssopifolia** Michx. (hyssop-leaved).

Rare. Killingly, sandy border of pond (Bissell), Wallingford (N. Coleman), West Hartford (H. S. Clark). July — Aug.

**Stachys tenuifolia** Willd. (thin-leaved), var. **aspera** (Michx.) Fernald (rough).

*Stachys aspera* Michx.

Rare or local. Moist ground along streams or on roadsides: Lyme (Graves), Glastonbury (A. W. Driggs, Bissell), East Windsor (Bissell), Stratford (Eames). July — Aug.

**Stachys palustris** L. (growing in marshes).

Woundwort.

Rare. Roadsides, fields and wet meadows: Fairfield and Bridgeport (Eames), Salisbury (Mrs. C. S. Phelps), New Fairfield (Harger). July — Aug.

The var. **HOMOTRICHA** Fernald (having the hairs alike) occurs at Oxford (Harger).

**SALVIA L.** Sage.**Salvia lyrata** L. (lyre-shaped).

Lyre-leaved Sage.

Local. About a fourth of an acre of grassy meadow is covered with this species in Woodbridge (Harger). May — June.

**Salvia pratensis** L. (belonging to a meadow).

Meadow Sage.

Rare. Fields and cultivated ground: Norwich (Mrs. E. E. Rogers), Southington (L. Fox). June. Fugitive from Europe.

**Salvia officinalis** L. (of the shops).

Garden Sage.

Rare. Roadsides and cultivated ground as an escape from cultivation: Southington (Andrews), Milford (Eames). June. Adventive from Europe.

The leaves are officinal in medical practice, also used for flavoring meats, cheese, etc.

**Salvia splendens** Ker (shining).

Scarlet Sage.

Rare. Escaped from cultivation to waste places: Westport (Eames): Sept.—Oct. Fugitive from Brazil.

**MONARDA** L. Horse Mint.**Monarda didyma** L. (twin).

Bee Balm. Oswego Tea. Fragrant Balm.

Rare or occasional. Roadsides, about old houses and borders of woods as an escape from cultivation. July — Aug. Naturalized from the West.

The herb finds some popular uses in medical practice, depending on its aromatic properties. All our species are similar in this respect and are one of the sources of thymol.

**Monarda clinopodia** L. (like *Clinopodium*, the Basil).

Basil Balm.

Rare. Waste ground and roadsides: Ledyard (Graves), Waterbury (A. E. Blewitt). July — Aug. Adventive from the West.

**Monarda fistulosa** L. (tubular).

Wild Bergamot.

Rare. Dry soil of shrubby and waste places: East Lyme (Miss A. M. Ryon), Bolton (Bissell), Manchester (H. S. Clark), West Hartford and Southbury (Harger), Stratford, Bridgeport, Fairfield and Norwalk (Eames). July — Aug.

The var. *RUBRA* Gray (red), *Monarda media* Willd.,\* is rare as an escape from gardens: Groton (Graves), Andover (Mrs. C. S. Phelps & Weatherby), Somers and Southington (Bissell), Bridgeport (Eames). The variety is adventive from the West as is the species in part.

**Monarda mollis** L. (soft).*Monarda fistulosa* L., var. *mollis* Benth.

Downy Bergamot.

Occasional or frequent. Dry pastures, waste places and roadsides. July — Aug.

**BLEPHILIA** Raf.**Blephilia ciliata** (L.) Raf. (fringed).

Wood Mint.

Rare. Dry open ground: Plainville (Bissell), Orange (A. W. Evans), Beacon Falls (Harger), Salisbury (Mrs. C. S. Phelps). June.

**Blephilia hirsuta** (Pursh) Benth. (hairy).

Wood Mint.

Rare. Border of woods: Waterbury and Thomaston (A. E. Blewitt). June—July.

**HEDEOMA** Pers.      Mock Pennyroyal.

**Hedeoma pulegioides** (L.) Pers. (like *Mentha Pulegium*, the Pennyroyal).

American Pennyroyal.

Common. Open or shaded ground, usually in dry soil. July—Aug.

The leaves and flowering tops as well as the oil distilled from them are officinal in medical practice and find many popular uses in home medication. The taste and odor are nearly the same as those of true Pennyroyal, *Mentha Pulegium* of Europe.

**Hedeoma hispida** Pursh (rough-hairy).

Rare. Putnam, dry plains near the Quinebaug River (Harger). June—Aug. Adventive from the West.

**MELISSA** L.      Balm.

**Melissa officinalis** L. (of the shops).

Common or Lemon Balm.

Rare. Roadsides, yards and fields near old houses as an escape from cultivation: Ledyard and Lyme (Graves), New Haven (D. C. Eaton), Huntington, Trumbull, Fairfield and Norwalk (Eames). July—Sept. Native of Europe.

The leaves and tops are medicinal and were formerly officinal.

**SATUREJA** L.      Savory. Calamint.

**Satureja vulgaris** (L.) Fritsch (common).

*Clinopodium vulgare* L.

*Calamintha Clinopodium* Benth.

Basil.

Frequent. Woods, fields and thickets. June—Sept.

**HYSSOPUS** L. Hyssop.**Hyssopus officinalis** L. (of the shops).

Hyssop.

Rare. Roadsides as an escape from cultivation: Salisbury (Mrs. C. S. Phelps). June — Sept. Native of Europe.

The plant is medicinal.

**ORIGANUM** L. Wild Marjoram.**Origanum vulgare** L. (common).

Wild Marjoram.

Rare or local. Dry pastures, roadsides and waste places: New Haven (O. Harger et al.), Sherman (E. H. Austin &amp; Eames), Kent (C. K. Averill), Sharon (Bissell), Salisbury (Mrs. C. S. Phelps). July — Sept. Adventive from Europe.

**PYCNANTHEMUM** Michx. Mountain Mint. Basil.**Pycnanthemum clinopodioides** Torr. & Gray (like *Clinopodium*, the Basil).*Koellia clinopodioides* Kuntze.

Rare. Dry ground: Southington (Andrews), Cheshire (A. E. Blewitt), Hamden (O. Harger). Aug.

**Pycnanthemum flexuosum** (Walt.) BSP. (flexuous).*Pycnanthemum linifolium* Pursh.*Koellia flexuosa* MacM.

Occasional. Open sandy ground either dry or moist. July — Aug.

**Pycnanthemum virginianum** (L.) Durand & Jackson.*Pycnanthemum lanceolatum* Pursh.*Koellia lanceolata* MacM.

Wild Isaac.

Common. Sterile ground either dry or moist. July — Aug.

**Pycnanthemum pilosum** Nutt. (hairy).*Pycnanthemum muticum* Pers., var. *pilosum* Gray.*Koellia pilosa* Britton.

Rare. Edge of thicket in rather dry gravelly soil, Plainfield (Bissell &amp; Weatherby). Aug.—Sept.

**Pycnanthemum verticillatum** (Michx.) Pers. (whorled).

*Koellia verticillata* Kuntze.

Rare or occasional. Hillsides and pastures either moist or dry. July — Aug.

**Pycnanthemum incanum** (L.) Michx. (hoary-white).

*Koellia incana* Kuntze.

Occasional. Rocky copses, thin woods and clearings. Aug.

**Pycnanthemum muticum** (Michx.) Pers. (pointless).

*Koellia mutica* Britton.

Frequent. Poor soils either dry or wet. July — Aug.

#### THYMUS L. Thyme.

**Thymus Serpyllum** L. (classical name for this plant).

Wild or Creeping Thyme.

Rare or occasional. Fields and waste places, usually in dry ground. June — Sept. Adventive from Europe.

Sometimes cultivated and used for seasoning in cookery.

#### LYCOPUS L. Water Horehound.

**Lycopus virginicus** L.

Bugle Weed.

Wet open ground or shaded swamps. Rare in most districts: Franklin (R. W. Woodward), Windsor (Bissell), Hartford (H. S. Clark). Occasional or frequent near the coast and in the southwestern part of the state. July — Sept.

The herb has medicinal properties, like other species of the genus.

**Lycopus uniflorus** Michx. (one-flowered).

*Lycopus communis* Bicknell.

*Lycopus membranaceus* Bicknell.

Bugle Weed.

Common. Wet or dry places in various soils. Aug.—Sept.

**Lycopus sessilifolius** Gray (sessile-leaved).

Rare. Wet ground about ponds: Voluntown, Ledyard, Groton and East Lyme (Graves), Old Saybrook and Middlebury (Harger). Aug.—Sept.

**Lycopus rubellus** Moench (reddish).

Rare. Low ground: Groton and New London (Graves), Southington (Andrews, Bissell), Huntington (Harger). Aug.—Sept.

**Lycopus americanus** Muhl.

*Lycopus sinuatus* Ell.

Frequent. Moist or wet places. Aug.—Sept.

**MENTHA** L. Mint.**Mentha longifolia** (L.) Huds. (long-leaved).

*Mentha sylvestris* L.

Horse Mint of Europe.

Rare. Fields and waysides: Ledyard (Graves), Milford (Eames & C. C. Godfrey), Westport (Eames). July—Sept. Naturalized from Europe.

**Mentha alopecuroides** Hull (like *Stachys Alopecuros*, the Betony).

*Mentha sylvestris* L., var. *alopecuroides* Baker.

Rare. Roadsides in Fairfield (Eames). Aug.—Sept. Adventive from Europe.

**Mentha spicata** L. (spiked).

*Mentha viridis* L.

Spearmint.

Frequent. Fields and roadsides in wet ground. July—Sept. Naturalized from Europe.

The leaves and flowering tops as well as the oil distilled from them are officinal in medical practice and are in popular use. The herb is used in sauce for roast lamb, etc.

**Mentha piperita** L. (peppery).

Peppermint.

Occasional. Wet places. Aug.—Sept. Naturalized from Europe.

The source of oil of peppermint. Like the preceding species officinal, much used in medical practice and as a flavor for confectionery.

**Mentha aquatica** L. (aquatic).

Water Mint.



Rare or local. Moist ground: New London (Graves), Southbury (T. M. Prudden), Litchfield (T. M. Allen). Aug.—Sept. Adventive from Europe.

**Mentha crispa** L. (curled).

*Mentha aquatica* L., var. *crispa* Benth.

Curled Mint.

Rare or local. Roadsides: Norwich (Mrs. E. E. Rogers), New London, Ledyard and Preston (Graves), Stratford (Eames, Harger), Waterbury (Mrs. C. H. Lyman), Oxford (Harger), Bridgeport (Eames). Aug.—Sept. Adventive from Europe.

Properties similar to those of peppermint. Often cultivated both for ornament and use.

**Mentha citrata** Ehrh. (like *Citrus Limonum*, the Lemon: referring to its odor).

Bergamot Mint.

Rare. Roadsides and waste places in moist ground: East Hartford (Weatherby), Rocky Hill (Mrs. F. W. Starmer), Oxford (Harger), Litchfield (T. F. Allen), Salisbury (Mrs. C. S. Phelps). Aug.—Sept. Adventive from Europe.

**Mentha Cardiaca** Gerarde (of the heart).

*Mentha sativa* of many American authors.

Rare. Southington, wet ground (Andrews & Bissell). Aug.—Sept. Adventive from Europe.

**Mentha gentilis** L. (related).

*Mentha sativa* L.

Spotted or Whorled Mint. Runaway Robin.

Rare. Roadsides, waste places and about old houses: Ledyard and Preston (Graves), Union and Salisbury (Bissell), Bolton (Weatherby), Plainville (J. N. Bishop), Southington (Andrews & Bissell), Bridgeport, Fairfield, Newtown and Sherman (Eames). July—Sept. Naturalized from Europe.

**Mentha arvensis** L. (of cultivated ground).

Field Mint.

Occasional. Low fields and wet places. July—Sept.

**Mentha arvensis** L., var. **canadensis** (L.) Briquet.

*Mentha canadensis* L.

Wild Mint.

Frequent. Wet places, often along streams. July — Sept.

**COLLINSONIA** L. Horse Balm.

**Collinsonia canadensis** L.

Richweed. Stone-root.

Common. Moist rich woods. July — Sept.

The root and herb are used in medicine.

**PERILLA** L.

**Perilla frutescens** (L.) Britton (shrubby).

*Perilla ocymoides* L.

Rare. About old gardens as an escape from cultivation: Groton (Mrs. C. B. Graves), Southington (Andrews), Oxford (Harger), Bridgeport (Eames). July — Sept. Native of Asia.

Sometimes cultivated as a foliage plant.

**SOLANACEAE. NIGHTSHADE FAMILY.**

**CAPSICUM** L. Pepper.

**Capsicum annuum** L. (annual).

Red, Cayenne or Chili Pepper.

Rare. Waste ground: Hartford (H. S. Clark), Bridgeport (Eames). July — Aug. Fugitive from the Tropics.

Well known in cultivation.

**LYCOPERSICUM** Mill. Tomato.

**Lycopersicum esculentum** Mill. (edible).

*Lycopersicon Lycopersicon* Karst.

Tomato.

Rare. An escape in waste places and on river shores. Aug.—Sept. Introduced from South America.

Cultivated for its edible fruit.

**SOLANUM** L. Nightshade.

**Solanum tuberosum** L. (producing tubers).

Potato.

Rare. Cultivated ground and waste places. July. Fugitive from temperate South America.

One of the important food plants of the world.

**Solanum Dulcamara** L. (bitter-sweet).

Woody Nightshade. Bittersweet. Wolf Grape. Violet Bloom.

Frequent. Moist or wet thickets, waste grounds, roadsides, about ponds and along streams. June—Aug.; fruit July—Sept. Naturalized from Europe.

The young branches and leaves are sometimes used medicinally and were formerly officinal. The berries are somewhat poisonous.

**Solanum nigrum** L. (black).

• Black or Common Nightshade.

Frequent. Moist rich soil or often in drier places or on sea beaches. July—Sept.; fruit Aug.—Oct.

Stock are sometimes poisoned by eating this plant. All parts of the plant are said to be more or less poisonous. This plant has recently been somewhat extensively advertised in seed catalogues as Garden Huckleberry, and it is claimed the ripe berries are entirely safe and wholesome either fresh or cooked. The testimony is somewhat conflicting.

It is stated that in some countries the leaves are eaten as a pot-herb after thorough cooking; that in the Dakotas the plant is called Stubbleberry, and the ripe fruit is much used for making pies and preserves.

On the other hand the best chemical authorities state that active poisonous principles have been found in the ripe berries as well as in other parts of the plant. The species is quite variable, and it is probable that some plants are more poisonous than others, in consequence of conditions of growth not yet understood.

All things considered, its indiscriminate use as a food plant cannot be recommended.

**Solanum carolinense** L.

Horse or Bull Nettle. Sand Brier.

Rare. Fields and meadows: Middletown (Bissell), Nau-

gatuck (A. E. Blewitt), Seymour (Harger), Milford and Bridgeport (Eames), Norwalk (G. P. Ells), Salisbury (Mrs. C. S. Phelps), New Milford (E. H. Austin), Greenwich (J. W. Robbins). July — Sept.; fruit Aug.—Oct. Naturalized from the South.

A pernicious weed in the South, destructive to cattle. The root and leaves are employed medicinally.

**Solanum rostratum** Dunal (beaked).

Sand Bur. Buffalo Bur.

Rare. Waste or cultivated ground: New London (Miss E. Shelly), Hartford and East Haddam (Dr. E. J. Thompson), Southington (Miss L. Upson, Andrews), Naugatuck (B. B. Bristol), Milford (Harger), Wilton (Miss A. E. Carpenter), Kent and New Milford (E. H. Austin), Salisbury (Mrs. C. S. Phelps). July — Sept. Adventive from the West.

A pernicious weed which should be eradicated on its first appearance.

**PHYSALIS** L. Ground Cherry.

**Physalis angulata** L. (angular).

Rare. Hartford, in waste ground (H. S. Clark & Bissell). July — Sept. Fugitive from the South.

**Physalis pruinosa** L. (frosted).

Strawberry Tomato.

Cultivated or waste ground. Rare in most districts: Norwich (Mrs. E. E. Rogers), Groton (Mrs. C. B. Graves), Southington (Andrews & Bissell). Occasional in the southwestern part of the state (Eames). July — Oct.

**Physalis Alkekengi** L.

Winter Cherry.

Rare. New Milford, spreading from cultivation (E. H. Austin). Fruit Aug.—Oct. Introduced from eastern Asia.

**Physalis heterophylla** Nees (various-leaved).

*Physalis virginiana* Gray's Manual ed. 6, not Mill.

Occasional. Dry fields and waste places. June — Sept.; fruit Aug.—Oct.

The var. **AMBIGUA** (Gray) Rydb. (doubtful) sometimes occurs with the typical form.

The var. *NYCTAGINEA* (Dunal) Rydb. (like the Four-o'clock) is rare: Windsor, shaded alluvial soil on bank of the Connecticut River (Bissell).

**Physalis subglabrata** Mackenzie & Bush (nearly smooth).

*Physalis philadelphica* Gray's Manual ed. 6, perhaps not Lam.

Rare. Waste grounds, roadsides and fields: East Windsor and Norwalk (Bissell), Bridgeport (Eames), Waterbury (A. E. Blewitt), New Milford (Eames & E. H. Austin), Salisbury (Mrs. C. S. Phelps). July—Sept.

Sometimes cultivated for its edible fruit.

**Physalis virginiana** Mill.

*Physalis lanceolata* Gray's Manual ed. 6 in part, not Michx.

Rare. Dry or moist fields: Southington (Andrews), Southbury (Harger). June—Aug.

**NICANDRA** Adans. Apple of Peru.

**Nicandra physalodes** (L.) Pers. (like *Physalis*, the Ground Cherry).

*Physalodes physalodes* Britton.

Apple of Peru.

Rare. Waste ground and cultivated fields: Norwich (Mrs. E. E. Rogers), Southington (Andrews), New Haven (O. Harger), Waterbury (H. S. Clark), Oxford and Ansonia (Harger), Bridgeport and Norwalk (Eames), Winchester (A. E. Blewitt), Norfolk (H. S. Clark & Bissell). July—Sept. Adventive from Peru.

**LYCIUM** L. Matrimony Vine.

**Lycium halimifolium** Mill. (having leaves like *Atriplex Halimus*, the Orach).

*Lycium vulgare* Dunal.

Common Matrimony Vine.

Rare or local. Roadsides and about old houses. May—Sept.; fruit Aug.—Oct. Adventive from Europe.

**DATURA** L. Jamestown or Jimson Weed. Thorn Apple.

**Datura Stramonium** L. (old name for this species).

Stramonium. Jimson Weed. Thorn Apple.

Rare or occasional. Waste places, mostly in rich soil. July — Oct.; fruit Oct. Naturalized, probably from Asia.

The leaves are officinal and with the seeds are valued in medicine. The plant is poisonous. In numerous instances children have been killed by eating the seeds.

**Datura Tatula** L. (Persian name for this species).

Purple Stramonium. Jimson Weed. Purple Thorn Apple.

Rich waste places and on sea beaches. Occasional, becoming frequent or common in villages and cities. July — Oct.; fruit Oct. Naturalized from tropical America.

Poisonous and medicinal like *Datura Stramonium*.

**Datura Metel** L. (Arabic name for this species).

Rare. Waste ground: New Haven (H. S. Clark), Bridgeport (Eames). July — Oct.; fruit Oct.

Fugitive from tropical America.

A narcotic poison.

**Datura meteloides** DC. (like *Datura Metel*).

Rare. Waste ground: Southington, two plants seen for a single season (Bissell & Andrews). Aug.—Sept. Fugitive from tropical America.

A narcotic poison. Sometimes cultivated for ornament.

**NICOTIANA** L. Tobacco.

**Nicotiana rustica** L. (of the country).

Wild Tobacco.

Rare. New Haven, waste fields (F. W. Hall, 1873), New London (Graves). Aug.—Sept. A fugitive, its nativity unknown, but formerly cultivated by the Indians.

**Nicotiana alata** Link & Otto (winged).

Rare. Waste places: Bridgeport, several stations (Eames), Southington (Andrews). Aug.—Sept. Native of South America.

Often cultivated as an ornamental plant.

**Nicotiana Tabacum** L. (Indian name).

Tobacco.

Rare. Waste ground: Bridgeport and Fairfield (Eames). Aug.—Sept. Fugitive from South America.

Well known in cultivation.

**PETUNIA** Juss.

**Petunia axillaris** (Lam.) BSP. (growing in an axil).

White Petunia.

Rare. Waste places: New London (Graves), Southington (Andrews), Ansonia (Harger), Bridgeport and Norwalk (Eames). July — Sept. Fugitive or in part adventive from tropical America.

Commonly cultivated for ornament.

**Petunia violacea** Lindl. (violet).

Purple Petunia.

Rare. Waste ground: New London (Graves), Oxford (Harger), Bridgeport (Eames). July — Sept. Fugitive or in part adventive from South America.

Cultivated. Most of the forms in cultivation are hybrids of this species with *Petunia axillaris*.

## SCROPHULARIACEAE. FIGWORT FAMILY.

**VERBASCUM** L. Mullein.

**Verbascum Thapsus** L. (classical name for this species).

Common Mullein. Velvet Dock. Flannel-leaf.

Frequent or common. Dry fields, pastures and newly cleared land. June — Oct. Naturalized from Europe.

The leaves, tops and flowers are used medicinally, and the leaves are often dried and smoked like tobacco for respiratory affections.

**Verbascum phlomoides** L. (like *Phlomis*, the Jerusalem Sage).

Rare. Granby, a few plants in grassland (I. Holcomb). July. Fugitive from Europe.

**Verbascum Blattaria** L. (classical name for this species).

Moth Mullein.

Occasional. Fields, mostly in grassland and in dry soil. June — Sept. Naturalized from Europe.

The var. **ALBIFLORUM** Kuntze (white-flowered) sometimes occurs with the species.

Medicinal, having the same properties as *Verbascum Thapsus*.

**Verbascum Pseudo-Lychnitis** Schur (simulating *Verbascum Lychnitis*).

Rare. Kent, a few plants in grassland (Miss J. T. Gregory). Aug. Fugitive from Europe.

**LINARIA** Hill. Toadflax.

***Linaria vulgaris*** Hill (common).

*Linaria Linaria* Karst.

Ramsted. Butter and Eggs.

Common. Fields, roadsides and waste places. June—Oct. Naturalized from Europe.

A troublesome weed, difficult to eradicate. Medicinal.

***Linaria canadensis*** (L.) Dumont.

Blue Toadflax.

Common. Dry to moist mostly sterile or sandy soil. May—Sept.

A part of the flowers are usually cleistogamous, sometimes all of them.

***Linaria minor*** (L.) Desf. (smaller).

*Chaenorhinum minus* Lange.

Rare. Stamford, in waste ground (W. H. Hoyt). June—Aug. Fugitive from Europe.

***Linaria Elatine*** (L.) Mill. (classical name for some kind of Toadflax).

*Kickxia Elatine* Dumont.

*Elatinoides Elatine* Wettst.

Rare. There is in the Eaton Herbarium a specimen of this species collected in Connecticut by Charles Wright, but the exact locality is not known. Not otherwise reported from the state. June—Sept. Fugitive from Europe.

***Linaria Cymbalaria*** (L.) Mill. (like a cymbal).

*Cymbalaria Cymbalaria* Wettst.

Kenilworth or Coliseum Ivy.

Rare. Roadsides, waste places and on walls: Norwich, Groton and New London (Graves), Windham (Bissell), Bridgeport (Eames), Fairfield (Mrs. Mabel Osgood Wright, Eames), Seymour (Harger). June—Sept. Adventive from Europe.



**ANTIRRHINUM L.** Snapdragon.**Antirrhinum Orontium L.**

Small Snapdragon.

Rare. Bridgeport, one plant in waste ground (Eames).  
June. Fugitive from Europe.

**SCROPHULARIA L.** Figwort.**Scrophularia marilandica L.**

*Scrophularia nodosa L.*, var. *marilandica* Gray.

Figwort. Scrofula Plant.

Fields and thickets. Rare east of the Connecticut River: Franklin (R. W. Woodward). Occasional or frequent in the western part of the state. July — Sept.

The herb and root are medicinal in both this and the following species.

**Scrophularia leporella** Bicknell (a little hare).

Occasional or frequent. Fields, thickets and fence-rows.  
Late May — early July.

A form of this with deeply laciniate leaves occurs at Bridgeport (H. S. Clark).

**PENTSTEMON Ait.** Beard-tongue.**Pentstemon hirsutus (L.) Willd.** (hairy).

*Pentstemon pubescens* Ait.

Dry fields and banks. Frequent in Litchfield County; rare, occasional or local in other parts of the state. Late May — early July.

**Pentstemon tubiflorus** Nutt. (tubular-flowered).

Rare. Pastures and grassland: Granby (I. Holcomb), Sharon (Bissell), Kent (H. Mosher), Salisbury (Mrs. C. S. Phelps). June — July. Adventive from the West.

**Pentstemon laevigatus** Ait. (smoothed).

*Pentstemon Pentstemon* Britton.

Rare or occasional. Wet or dry grassland and waste places. June — early July. Adventive from the West.

**Pentstemon laevigatus** Ait., var. **Digitalis** (Sweet) Gray (like *Digitalis*, the Foxglove).

*Pentstemon Digitalis* Nutt.

*Pentstemon calycosus* Small.

Occasional, frequent or common. Moist or dry grassland.  
June—early July. Introduced from the West.

**Pentstemon grandiflorus** Nutt. (large-flowered).

Rare. Granby, a few plants in a field (I. Holcomb).  
June. Fugitive from the West.

**CHELONE** L. Turtlehead. Snakehead.

**Chelone glabra** L. (smooth).

Turtlehead. Snakehead. Balmomy.

Frequent. Wet places. Aug.—Sept.

The leaves and tops are medicinal.

**MIMULUS** L. Monkey Flower.

**Mimulus ringens** L. (gaping).

Frequent. Wet thickets and open places. July—Sept.

**Mimulus alatus** Ait. (winged).

Rare. Wet places and banks of streams: Lyme (Bissell),  
East Hartford (J. F. Smith), Hartford (H. S. Clark), Stamford  
(W. H. Hoyt). July—Sept.

**Mimulus Langsdorffii** Donn.

*Mimulus luteus* Gray's Manual ed. 6, not L.

*Mimulus guttatus* DC.

Yellow Monkey Flower.

Rare or local. Wet ground along brooks: Norfolk (J. H.  
Barbour), New Milford (Miss J. T. Gregory). June—Aug.  
Adventive from the Pacific Coast.

**LIMOSELLA** L. Mudwort.

**Limosella aquatica** L. (aquatic), var. **tenuifolia** (Wolf) Pers.  
(slender-leaved).

*Limosella tenuifolia* Wolf.

Mudwort.

Occasional on muddy tidal shores. June—Oct.

**ILYSANTHES** Raf. False Pimpernel.

**Ilysanthes dubia** (L.) Barnhart (doubtful).

*Ilysanthes riparia* Gray's Manual ed. 6 in part, and perhaps  
of Raf.

*Ilysanthes gratioloides* Benth.

*Ilysanthes attenuata* Small.

Frequent. Wet muddy or sandy open places and about ponds and streams. June — Sept.

**Ilysanthes anagallidea** (Michx.) Robinson (like *Anagallis*, the Pimpernel).

*Ilysanthes dubia* of American authors, not *Gratiola dubia* L.  
*Ilysanthes riparia* Raf. (?).

Wet muddy or sandy places. East Haddam (Eaton Herb.), and occasional in the southwestern part of the state (Eames). June — Sept.

**GRATIOLA** L. Hedge Hyssop.

**Gratiola virginiana** L.

Common. Wet places. June — Sept.

The plant is medicinal.

**Gratiola aurea** Muhl. (golden).

Lake and river shores. Monroe (H. C. Beardslee), and occasional or frequent in central and eastern Connecticut. June — Sept.

**DIGITALIS** L. Foxglove.

**Digitalis purpurea** L. (purple).

Common Foxglove.

Rare. Bridgeport, in waste places (Eames). June — July.  
Fugitive from Europe.

**VERONICA** L. Speedwell.

**Veronica virginica** L.

*Leptandra virginica* Nutt.

Culver's-root. Culver's Physic.

Occasional to frequent. Fields, thickets and fence-rows. July — Aug.

The rhizome and roots are medicinal and are official.

**Veronica longifolia** L. (long-leaved).

Rare. Roadsides as an escape from cultivation: Waterford (E. F. Burlson), Union (Bissell), Milford and Fairfield (Eames). July — Aug. Native of Europe.

**Veronica americana** Schwein.

American Brooklime.

Springs and wet places. Windsor (Eames & Harger),

Southington (Andrews & Bissell), and occasional throughout the western part of the state. May—Aug.

Medicinal. Said to be also used as a salad plant.

**Veronica scutellata** L. (platter-like, in allusion to the flat flowers).

Swamp or Marsh Speedwell.

Occasional or frequent. Wet places. May—Oct.

**Veronica officinalis** L. (of the shops).

Speedwell. Paul's Betony. Common Speedwell.

Common. Dry fields and woods. May—June.

The plant has medicinal uses.

**Veronica Chamaedrys** L. (classical name for Germander).

Bird's-eye.

Rare. In grassland: New London (Graves), Norfolk (Miss M. C. Seymour). May—June. Adventive from Europe.

**Veronica Teucrium** L. (like the Germander).

Rare. Fairfield, grassy roadside (Eames), Salisbury (Mrs. C. S. Phelps). June. Native of Europe.

The plant is medicinal.

**Veronica serpyllifolia** L. (thyme-leaved).

Creeping or Thyme-leaved Speedwell.

Frequent or common. Fields and thickets, usually in moist, but sometimes in dry soil. May—July.

Often troublesome as a weed in lawns.

**Veronica peregrina** L. (foreign).

Neckweed. Purslane Speedwell.

Frequent. Cultivated and waste ground either dry or moist. April—June.

Medicinal, resembling *Veronica officinalis* in its properties. Sometimes troublesome as a weed.

**Veronica arvensis** L. (of cultivated ground).

Corn Speedwell.

Occasional or frequent. Along the shore a weed in cultivated ground or along sandy roadsides; inland mostly in dry

rocky woods or on ledges. May—June. Naturalized from Europe.

Medicinal like *Veronica officinalis*.

**Veronica Tournefortii** C. C. Gmel.

*Veronica Buxbaumii* Tenore.

*Veronica byzantina* BSP.

Rare. Cultivated or waste ground: Oxford (Harger), Litchfield (Miss E. H. Thompson). April—Nov. Adventive from Europe.

**Veronica hederaefolia** L. (ivy-leaved).

Ivy-leaved Speedwell.

Rare. Norfolk, introduced along roadsides (Miss M. C. Seymour). April—June. Fugitive from Europe.

**GERARDIA** L. Gerardia.

**Gerardia pedicularia** L. (like *Pedicularis*, the Lousewort).

*Dasystema pedicularia* Benth.

Lousewort.

Occasional. Dry sandy or rocky woods and fields. Aug.—Sept.

The plant is medicinal.

**Gerardia flava** L. (yellow).

*Dasystema flava* Wood.

Downy Yellow or False Foxglove.

Frequent. Dry woods and thickets. July—Sept.

**Gerardia virginica** (L.) BSP.

*Gerardia quercifolia* Pursh.

*Dasystema virginica* Britton.

Oak-leaved or Smooth False Foxglove.

Dry woods. Occasional, becoming frequent near the coast. Aug.—Sept.

This and the preceding species are root-parasitic.

**Gerardia purpurea** L. (purple).

Purple Gerardia.

Frequent along the coast in moist fields and borders of marshes. Aug.—Oct.

**Gerardia paupercula** (Gray) Britton (stunted).*Gerardia purpurea* L., var. *paupercula* Gray.

Wet sandy places. Rare inland: Thompson (Weatherby & Bissell), Union and Salisbury (Bissell), East Hartford and Simsbury (Weatherby), Enfield and Southington (Andrews & Bissell), Litchfield (Miss E. H. Thompson). Occasional or frequent along the coast. Aug.— Oct.

**Gerardia maritima** Raf. (of the seaside).Seaside *Gerardia*.

Occasional or local on the coast in salt marshes. Aug.— Oct.

**Gerardia tenuifolia** Vahl (slender-leaved).*Gerardia Gattingeri* Small.*Gerardia*.

Frequent or common. Woods, thickets and fields, mostly in dry soils. Aug.— Sept.

The var. *MACROPHYLLA* Benth. (large-leaved), *Gerardia Besseyana* Britton, occurs at Wethersfield (C. Wright), and at Orange (Bissell).

**Gerardia parvifolia** Chapman (small-leaved).*Gerardia Skinneriana* Gray's Manual ed. 6, not Wood.

Rare. Farmington, in sandy woods (Miss C. A. Shepard). Aug.— Sept.

**CASTILLEJA** Mutis. Painted Cup.**Castilleja coccinea** (L.) Spreng. (scarlet).

Scarlet Painted Cup. Meadow Pink. Nosebleed. Headache Plant. Soldiers on the Green.

Occasional, local or frequent. Wet meadows and pastures. April—June.

The root was formerly used in medicine. The species is root-parasitic. Sometimes seen with yellow flowers.

**MELAMPYRUM** L. Cow Wheat.**Melampyrum lineare** Lam. (very narrow).*Melampyrum americanum* Michx.

Cow Wheat.

Common. Dry woods. June — Aug.

**PEDICULARIS L.** Lousewort.**Pedicularis canadensis L.**

Common Lousewort. Wood Betony. Greaseweed.

Frequent or common. Fields and woods in either dry or moist ground. May—June.

**Pedicularis lanceolata Michx.** (lance-shaped).

Swamp Lousewort.

Bogs and wet meadows. Rare, occasional or local in most parts of the state, but not reported from Fairfield County. Aug.—Sept.

**RHINANTHUS L.** Yellow Rattle.**Rhinanthus Crista-galli L.** (cock's-comb).

*Rhinanthus minor* Ehrh.

Rattle. Yellow Rattle. Rattle-box.

Local. Fields and meadows, either moist or dry: North Branford and New Haven (Harger), Cheshire (Miss Hotchkiss), Waterbury (Eaton Herb.), and occasional westward and southward as far as Milford (W. A. Setchell, H. S. Clark, Eames), and Stratford (Eames). May—June.

**SCHWALBEA L.** Chaff-seed.**Schwalbea americana L.**

Chaff-seed.

Rare. East Lyme, gravelly roadside (Mrs. C. B. Graves). May—July.

**LENTIBULARIACEAE.****BLADDERWORT FAMILY.****UTRICULARIA L.** Bladderwort.**Utricularia inflata** Walt. (inflated).

In still water. Rare in most districts: Mansfield (Weatherby), Windsor (A. W. Driggs & Weatherby), Bristol (J. N. Bishop). Occasional in New London County (Graves). July—Sept.

**Utricularia clandestina** Nutt. (secret).

Rare. Muddy pools or shores: Waterford (Graves), Fairfield (L. N. Johnson). July.

**Utricularia vulgaris** L. (common), var. **americana** Gray.*Utricularia vulgaris* of Manuals in part.

Greater Bladderwort.

Occasional or local. Still water or slow streams. June—Aug.

**Utricularia minor** L. (lesser).

Smaller Bladderwort.

Rare. In still water: East Lyme (Miss A. M. Ryon), New Haven (Eaton Herb.), Fairfield, Milford and Ridgefield (Eames), Easton (Eames &amp; C. C. Godfrey), Salisbury (Mrs. C. S. Phelps). May—June.

**Utricularia gibba** L. (humped).

Rare, local or occasional. Shallow water or mud about swamps, pools and ponds. July—Oct.

**Utricularia biflora** Lam. (two-flowered).

Rare. Ponds and pools: Groton (Graves), Southington (Andrews). July—Sept.

**Utricularia intermedia** Hayne (intermediate).

Sphagnum bogs and borders of ponds. Rare in northern districts, becoming occasional in the southern part of the state. May—July.

The flowers are seldom seen.

**Utricularia purpurea** Walt. (purple).

Purple Bladderwort.

In ponds. Rare or local in most districts: Middlebury (Harger), Mansfield (Weatherby), Guilford (G. H. Bartlett). Occasional near the coast in New London County (Graves). Aug.

**Utricularia resupinata** B. D. Greene (bent backward).

Rare. East Lyme, at Dodge's Pond (Graves), Woodbury, in a sphagnum bog (B. B. Bristol et al.). July—Sept.

**Utricularia cornuta** Michx. (horned).

Muddy or sphagnum bogs. Salisbury (Bissell), Norfolk (J. W. Robbins, J. H. Barbour), Woodbury, Bethany and Kent (Harger), Southington (Andrews), and occasional in New London County (Graves). Aug.



**OROBANCHACEAE. BROOM-RAPE FAMILY.**

**EPIFAGUS** Nutt. Cancer-root. Beech-drops.

**Epifagus virginiana** (L.) Bart.

*Leptamnium virginianum* Raf.

Beech-drops.

Occasional. Dry woods, under beech trees. Aug.—Sept.

The earlier flowers are cleistogamous. Medicinal.

**CONOPHOLIS** Wallr. Squaw-root. Cancer-root.

**Conopholis americana** (L. f.) Wallr.

Cancer-root.

Rare. Rich woods: Plainville (J. N. Bishop), Southington (Andrews & Bissell), Guilford (G. H. Bartlett), New Haven (Eaton Herb.). June.

**OROBANCHE** L. Broom-rape.

**Orobanche uniflora** L. (one-flowered).

*Aphyllon uniflorum* L. Gray.

*Thalesia uniflora* Britton.

One-flowered Cancer-root.

Occasional or frequent. Dry or moist woods and thickets, sometimes in fields or by roadsides. May—June.

The plant is medicinal.

**BIGNONIACEAE. BIGNONIA FAMILY.**

**TECOMA** Juss. Trumpet-flower.

**Tecoma radicans** (L.) Juss. (rooting).

Trumpet Creeper.

Rare or local. Roadsides and thickets as an escape from cultivation. Aug.—Sept. Adventive from the South.

Cultivated for ornament. In the South it becomes a pernicious weed in cultivated ground.

**CATALPA** Scop. Indian Bean. Catalpa.

**Catalpa bignonioides** Walt. (like Bignonia).

*Catalpa Catalpa* Karst.

Catalpa. Candle or Bean Tree.

Rare: Fields and roadsides as an escape from cultivation: Norwich and New London (Graves), Southington (An-

draws), Huntington and Southbury (Harger), Bridgeport (Eames). June. Adventive from the Gulf States.

Planted for ornament and valuable farther south for its timber.

## MARTYNIACEAE. MARTYNIA FAMILY.

### MARTYNIA L. Unicorn-plant.

*Martynia louisiana* Mill.

*Martynia proboscidea* Gloxin.

Unicorn-plant. Proboscis Flower.

Rare. Cultivated ground: Oxford (Harger). July—Oct. Fugitive from the Southwest.

The young pods are used for pickling.

## PHRYMACEAE. LOPSEED FAMILY.

### PHRYMA L. Lopseed.

*Phryma Leptostachya* L. (slender-spiked).

Lopseed.

Occasional. Rich woods and thickets. July—Aug.

## PLANTAGINACEAE. PLANTAIN FAMILY.

### PLANTAGO L. Plantain. Ribwort.

*Plantago major* L. (larger).

Common Plantain.

Common. Fields, waste places and especially along paths and roadsides. June—Sept.

The var. *INTERMEDIA* (Gilib.) Dcne. (intermediate), *Plantago halophila* Bicknell, is frequent on the borders of salt marshes and rarely occurs inland.

The leaves and root are medicinal. The young leaves are used as a pot-herb. An unsightly and pernicious weed in lawns.

*Plantago Rugelii* Dcne.

Plantain.

Common. Moist fields, yards, thickets and woods. June—Aug.

The young leaves are used as a pot-herb.

**Plantago decipiens** Barneoud (deceiving).*Plantago maritima* Gray's Manual ed. 6, not L.

Seaside Plantain.

Occasional to common in salt marshes and on tidal shores.

July — Oct.

**Plantago lanceolata** L. (lance-shaped).

English Plantain. Rib Grass. Ripple Grass.

Common. Fields, roadsides and waste ground. May — Sept. Naturalized from Europe.

A troublesome weed. The plant is medicinal.

**Plantago aristata** Michx. (bearing bristles).*Plantago patagonica* Jacq., var. *aristata* Gray.

Occasional. Dry fields and roadsides. June — Aug. Introduced from the West and becoming more frequent.

**Plantago virginica** L.

Dry rocky or sandy soil. Rare or local in most districts: Rocky Hill (M. Hitchcock), New Haven and Oxford (Harger), Norwalk (Miss A. E. Carpenter, Eames), New Milford (E. H. Austin). Occasional in New London County (Graves). May — June.

**Plantago elongata** Pursh (lengthened).*Plantago pusilla* Nutt.

Rare. Old Lyme, sandy roadside (Bissell), Guilford, thin soil on the edges of granite outcrops (G. H. Bartlett). May.

## RUBIACEAE. MADDER FAMILY.

## ASPERULA L.

**Asperula glauca** (L.) Bess. (glaucous).*Asperula galioides* Bieb.

Woodruff.

Rare. Southington, in fields (Bissell). June. Adventive from Europe.

## GALIUM L. Bedstraw. Cleavers.

**Galium Aparine** L. (classical name for some species of Bedstraw).

Cleavers. Goose Grass.

Frequent. Moist thickets and waste places. May—June.  
The plant is medicinal.

**Galium verum** L. (true).

Yellow Bedstraw.

Rare. Fields and waste ground: Waterford (Graves), Guilford (G. H. Bartlett), Plainville (C. D. Bishop), Naugatuck (B. B. Bristol), Huntington (Eames), Stratford (Mrs. R. H. Russell), Norfolk (Miss M. C. Seymour), Southbury (Weatherby & Harger), Monroe (Eames & C. C. Godfrey), Stamford (W. H. Hoyt), Salisbury (Mrs. C. S. Phelps). June—July. Adventive from Europe.

**Galium Wirtgenii** F. Schultz.

Rare. Norfolk, in grassland (Miss M. C. Seymour). June. Fugitive from Europe.

**Galium pilosum** Ait. (hairy).

Frequent. Dry soil of woods and fields. July—Aug.

**Galium pilosum** Ait., var. **punctulosum** (Michx.) Torr. & Gray (minutely punctate).

Rare. Dry ground: South Windsor (A. W. Driggs). July—Aug.

**Galium circaezans** Michx. (imitating *Circaea*, the Enchanter's Nightshade).

Wild Liquorice.

Occasional or frequent. Rich woods. June—July.

**Galium lanceolatum** Torr. (lance-shaped).

Wild Liquorice.

Rich woods. Rare in New London County: Norwich (Mrs. E. E. Rogers), Ledyard and Salem (Graves). Becoming occasional to frequent northward and westward. June—July.

**Galium boreale** L. (northern).

Northern Bedstraw.

Fields and rocky banks. Farmington (Miss Willard), New Britain (Bissell), Derby (Harger), Milford (Eames), and occasional northwestward. June—July.

**Galium Mollugo** L. (classical name for some bur-bearing plant).

Wild Madder.

Rare. Roadsides and grassland: East Haddam (Dr. E. J. Thompson), Granby (I. Holcomb), Southington and Winchester (Bissell), Bridgeport, Fairfield and Westport (Eames). June—July. Naturalized from Europe.

The plant is medicinal.

**Galium erectum** Huds. (erect).

Rare. Grassy fields: Plainville (Bissell), Southington (Andrews & Bissell), Westport (Eames), Norwalk (Eames & C. C. Godfrey), Salisbury (Mrs. C. S. Phelps). May—June. Adventive from Europe.

**Galium palustre** L. (of marshes).

Rare or local. Swamps: New London (Graves), Lyme (Graves, Harger), Plainville and Southington (Bissell), Litchfield (Bissell & Weatherby). June—July.

**Galium trifidum** L. (three-cleft).

*Galium trifidum* L., var. *pusillum* Gray.

Rare. Cold swamps: Norfolk and Sharon (Bissell), Salisbury (Mrs. C. S. Phelps & Bissell). July—Aug.

**Galium Claytoni** Michx.

*Galium trifidum* Gray's Manual ed. 6 in part.

Frequent. Swamps and bogs. June—Aug.

**Galium tinctorium** L. (used for dyeing).

*Galium trifidum* L., var. *latifolium* Torr.

Frequent. Bogs and swamps. June—July.

**Galium labradoricum** Wiegand.

*Galium tinctorium* L., var. *labradoricum* Wiegand.

Rare. Larch swamps: Norfolk (H. S. Clark & Bissell), Salisbury (M. L. Fernald). Late May—June.

**Galium asprellum** Michx. (slightly rough).

Rough Bedstraw.

Frequent. Swamps and borders of streams. July.

**Galium triflorum** Michx. (three-flowered).

Sweet-scented Bedstraw.

Frequent. Dry woods, often in rocky ground. June—Aug.

**DIODIA** L. Buttonweed.

**Diodia teres** Walt. (rounded).

Rare or local. Beaches along the coast and in dry sandy

fields: Old Saybrook (Bissell), New Haven (O. Harger), Bridgeport (L. N. Johnson), Fairfield, plentiful on the beach (Eames), Sherman, introduced in grassland (Eames, E. H. Austin & J. Pettibone). July — Oct.

**MITCHELLA L.** Partridge Berry.

**Mitchella repens L.** (creeping).

Partridge Berry. Squaw Vine. Checkerberry.

Frequent or common. Rich woods. June — July; fruit Sept., persisting through the winter.

The berries are edible but insipid. A form with white berries is reported from Canaan. The plant is medicinal and was formerly much used by Indian squaws.

**CEPHALANTHUS L.** Buttonbush.

**Cephalanthus occidentalis L.** (western).

Buttonbush.

Common. Shallow water of ponds, swamps and ditches. July — Aug.

The bark is medicinal.

**HOUSTONIA L.**

**Houstonia caerulea L.** (sky-blue).

Bluets. Innocence. Mayflower.

Common. Fields and woods, mostly in moist ground. April — June.

**Houstonia longifolia Gaertn.** (long-leaved).

*Houstonia purpurea* L., var. *longifolia* Gray.

Rare or local. Dry ground: Ledyard (Mrs. C. B. Graves), Norwich (Mrs. E. E. Rogers), Waterford (Miss Crofton), East Lyme (Mrs. F. H. Dart & Miss Bond), Sprague (Miss Smith), Granby (I. Holcomb), Oxford (Harger), Salisbury (Mrs. C. S. Phelps). June — July.

**Houstonia lanceolata (Poir.) Britton** (lanceolate).

*Houstonia purpurea* L., var. *calycosa* Gray.

Rare. Upland meadow in Wilton (Miss M. K. Jennings). June — July. Adventive from the West or possibly native.

## CAPRIFOLIACEAE. HONEYSUCKLE FAMILY.

**DIERVILLA** Adans. Bush Honeysuckle.

**Diervilla Lonicera** Mill. (like *Lonicera*, the Honeysuckle).

*Diervilla trifida* Moench.

*Diervilla Diervilla* MacM.

Bush Honeysuckle.

Frequent. Dry or moist woods and on banks. May—July.

Medicinal.

**LONICERA** L. Honeysuckle.

**Lonicera caerulea** L. (sky-blue), var. *villosa* (Michx.) Torr. & Gray (hairy).

*Lonicera caerulea* of Gray's Manual ed. 6, not L.

Mountain Fly Honeysuckle.

Swamps and low or rocky pastures and thickets. Plainville (J. N. Bishop), Griswold and Voluntown (Graves); and occasional or even common in northeastern Connecticut, where it is sometimes troublesome in pastures and is locally known as Hardhack. May—June; fruit June—July.

The berries are edible, resembling the blueberry in flavor.

**Lonicera tatarica** L.

Tartarian Honeysuckle.

Rare. Roadsides as an escape from cultivation: Fairfield (Eames), Redding (Eames & C. C. Godfrey), Cornwall (H. S. Clark & Bissell). May. Introduced from Asia.

**Lonicera canadensis** Marsh.

*Lonicera ciliata* Muhl.

American Fly Honeysuckle.

Dry rocky woods. Old Lyme (Graves), North Branford (A. W. Evans), Middletown (L. N. Johnson), Meriden (Eaton Herb.), and occasional in Litchfield County. May; fruit June.

**Lonicera Xylosteum** L. (bone-wood; referring to the hardness of the wood).

European Fly Honeysuckle.

Rare. Westport, escaped from cultivation to a roadside

(Eames). Mid-May — early June; fruit Aug.—Sept. Native of the Old World.

**Lonicera orientalis** Lam. (of the Orient).

Rare. Escaped from an old nursery to a pasture at Wethersfield (H. S. Clark & Bissell). June. Adventive from Asia.

**Lonicera japonica** Thunb.

Japanese Honeysuckle.

Roadsides and thickets. Occasional or local in most districts, becoming frequent near the coast. June — Oct. Naturalized from Asia.

Medicinal. Often cultivated for ornament.

**Lonicera sempervirens** L. (evergreen).

Trumpet Honeysuckle.

Occasional in woods and copses near the coast; also escaped from cultivation inland at South Windsor (A. W. Driggs), East Hartford (Weatherby), Salisbury (Mrs. C. S. Phelps). June; fruit Aug.

Cultivated for ornament. Medicinal.

**Lonicera dioica** L. (dioecious).

*Lonicera glauca* Hill.

Wild Honeysuckle.

Occasional. Woods and thickets. May — mid-June; fruit July.

**SYMPHORICARPOS** Ludwig. Snowberry.

**Symphoricarpos orbiculatus** Moench (circular).

*Symphoricarpos vulgaris* Michx.

*Symphoricarpos Symphoricarpos* MacM.

Indian Currant. Coral-berry.

Rare. Roadsides as an escape from cultivation: Waterford (Graves), Hartford (H. S. Clark & Bissell), Monroe and Seymour (Harger), Bridgeport and Darien (Eames), New Milford (C. K. Averill), Salisbury (Mrs. C. S. Phelps). July — Sept.; fruit Oct.—Dec. Introduced from the West or South.

Cultivated for ornament, as is the following species.



**Symphoricarpos racemosus** Michx. (racemed), var. **laevigatus** Fernald (smoothed).

*Symphoricarpos racemosus* of authors, not Michx.

Snowberry. Snowball.

Rare. Roadsides and about old house sites as an escape from cultivation: Ledyard and Montville (Graves), Southington (Andrews), Goshen (Bissell), Oxford (Harger), Milford, Fairfield and Ridgefield (Eames). June—Aug.; fruit Sept.—Oct. Introduced from the Northwest.

**LINNAEA** L. Twin-flower.

**Linnaea borealis** L. (northern), var. **americana** (Forbes) Rehder.

*Linnaea borealis* Gray's Manual ed. 6, not L.

Linnaea. Twin-flower.

Rare. Woods, either moist or dry: Ledyard and Franklin (Graves), Glastonbury (Mrs. F. W. Starmer), Granby (I. Holcomb), New Haven, formerly on East Rock (H. C. Beardslee), Milford (G. B. Grinnell, W. A. Setchell), Cornwall (E. E. Brewster). June.

**TRIOSTEUM** L. Horse Gentian. Feverwort.

**Triosteum perfoliatum** L. (with leaves meeting around the stem).

Feverwort. Tinker's Weed. Wild Coffee.

Frequent in dry fields and copses in the shore towns; not reported inland. Late May—June; fruit Sept.—Oct.

Medicinal, as is the following species.

**Triosteum aurantiacum** Bicknell (orange-colored).

Feverwort. Wild Coffee. Horse Gentian.

Dry woods, copses or pastures. Groton (Bissell), Franklin (Graves), and occasional or local westward and northward. May—June; fruit Aug.—Sept.

**Triosteum angustifolium** L. (narrow-leaved).

Rare. Rocky or sandy open woods: South Windsor and East Granby (H. S. Clark), Milford and Stratford, four widely separated stations (Eames). May; fruit Aug.

**VIBURNUM L.** Arrow-wood. Laurestinus.**Viburnum alnifolium** Marsh. (alder-leaved).*Viburnum lantanoides* Michx.

Hobble-bush. Witch Hobble. Moosewood.

Rich woods. Union (Graves, Bissell), Hamden (D. C. Eaton), Monroe (H. C. Beardslee), Redding (F. Mills), and occasional or frequent in the northwestern part of the state. May; fruit July.

**Viburnum Opulus L.** (classical name for some Maple), var. **americanum** (Mill.) Ait.*Viburnum Opulus* Gray's Manual ed. 6, not L.*Viburnum americanum* Mill.

High-bush Cranberry. Cranberry Tree. Cramp-bark. Pimbina.

Swamps and wet ground. Southington (Andrews), Waterbury (H. J. Bassett), Brookfield (C. K. Averill), and rare or local through the northwestern part of the state. May—June; fruit Aug.

The fruit is edible. The bark is of considerable value medicinally and is officinal. A cultivated form of the European *Viburnum Opulus* with transformed florets is the common Snowball of cultivation.

**Viburnum acerifolium L.** (maple-leaved).

Maple-leaved Viburnum. Dockmackie. Arrow-wood.

Common. Dry woods and thickets. June; fruit July—Aug.

Medicinal.

**Viburnum pubescens** (Ait.) Pursh (downy).

Downy Arrow-wood.

Rare. Dry rocky woods; Guilford (G. H. Bartlett), New Haven (Eaton Herb.), Meriden (Bissell), Southington (Andrews), Cheshire (Harger), Hamden and Kent (Eames), Salisbury (C. K. Averill). May—June; fruit Aug.

**Viburnum dentatum L.** (toothed).

Arrow-wood. Mealy Tree.

Frequent. Swamps and on banks of streams. June; fruit Aug.

**Viburnum cassinoides** L. (like *Ilex Cassine*, the Yaupon).

Withe-rod. Wild Raisin.

Swamps and wet woods. Frequent except in the southwestern part of Fairfield County where it is not known. June; fruit Aug.—Sept.

**Viburnum nudum** L. (naked).

Wild Raisin.

Rare. Swampy woods: Milford and Derby (Eames). Late June—July.

**Viburnum Lentago** L. (tough; pliant).

Sweet Viburnum. Sheepberry. Nannyberry. Wild Raisin.

Occasional or frequent. Thickets and fence-rows in either dry or wet ground. Late May—June; fruit Sept.—Oct.

The var. *SPHAEROCARPUM* Gray (round-fruited) sometimes occurs with the species, but its distribution is not known.

The fruit is edible but is unpalatable to many persons. The bark of the root is medicinal and is officinal, with, and under the name of, *Viburnum prunifolium*.

**Viburnum prunifolium** L. (plum-leaved).

Black Haw. Sloe. Stag-bush.

Rocky woods and thickets. Fairfield (Eames), and occasional or frequent near the coast westward. May—early June; fruit Sept.

The var. *GLOBOSUM* Nash (spherical) occurs at Greenwich (Bissell).

The bark of the root is much valued for its medicinal properties and is officinal.

**SAMBUCUS** L. Elder.**Sambucus canadensis** L.

Common or Black-berried Elder.

Common. Moist thickets and fence-rows. Mid-June—July; fruit Aug.—Sept.

The berries are used for making wine. The fruit and bark are medicinal, as are the flowers which were formerly officinal.

**Sambucus racemosa** L. (racemed).

*Sambucus pubens* Michx.

Red-berried Elder.

Rocky woods and thickets. Norwich (Mrs. E. E. Rogers), North Stonington, Preston and East Haddam (Graves), New Haven and Trumbull (Eames), Wilton (Eames & G. P. Ells), and occasional or frequent northward. May; fruit June—July.

## VALERIANACEAE. VALERIAN FAMILY.

### VALERIANA L. Valerian.

**Valeriana officinalis** L. (of the shops).

Garden Valerian or Heliotrope.

Rare. Roadsides as an escape from cultivation: Waterford and Lebanon (Graves), Southington (Andrews), Norfolk (Miss M. C. Seymour), Fairfield (Eames), Westport (Eames & C. C. Godfrey), Darien (Miss A. E. Carpenter). June. Introduced from Europe.

The root is well known for its medicinal properties and is officinal.

**VALERIANELLA** Hill. Corn Salad. Lamb's Lettuce.

**Valerianella Locusta** (L.) Betcke (old name for this plant).

*Valerianella oltoria* Poll.

Corn Salad.

Rare. Escaped from cultivation to waste ground in Fairfield (Eames). Aug. Fugitive from Europe.

Abroad is prized as a fall and winter salad plant, but is little known in America.

**Valerianella radiata** (L.) Dufur. (having rays).

Rare. Waterford, many plants on the banks of the Niantic River (Miss E. Shelly). June—July.

## DIPSACACEAE. TEASEL FAMILY.

### DIPSACUS L. Teasel.

**Dipsacus sylvestris** Huds. (of the woods).

Wild Teasel. Gipsy Combs.

Rare. Roadsides, pastures and waste places: Middletown (W. H. Blanchard), Southington (Andrews), New Haven

(Eaton Herb.), Milford, Bridgeport and Newtown (Eames), Southbury (Harger), Goshen (Bissell), Salisbury (C. C. Godfrey). July — Sept. Naturalized from Europe.

The plant is medicinal.

### KNAUTIA L.

**Knautia arvensis** (L.) T. Coulter (of cultivated ground).

*Scabiosa arvensis* L.

Field Scabious.

Rare. Southington, a few plants in an old field (W. N. Clute). June — July. Fugitive from Europe.

## CUCURBITACEAE. GOURD FAMILY.

### MOMORDICA L. Balsam-apple.

**Momordica Charantia** L.

Balsam-apple. Art Pumpkin. La-kwa.

Rare. Waste ground in Hartford (H. S. Clark & Bissell). Aug. — Sept. Fugitive from the Tropics.

The fruit is sometimes used medicinally. Cultivated for its fruit by the Chinese.

### CITRULLUS Neck.

**Citrullus vulgaris** Schrad.

*Citrullus Citrullus* Karst.

Watermelon. Citron.

Rare. Waste places and about dumping grounds. July — Sept. Fugitive from Africa.

### CUCUMIS L.

**Cucumis Melo** L. (an apple-shaped melon).

Melon. Muskmelon. Cantaloupe.

Rare. Waste or cultivated ground. June — Aug. Fugitive from southern Asia.

Common in cultivation, having many varieties dependent on the nature of the fruit.

**Cucumis sativus** L. (sown; planted).

Cucumber.

Rare. Waste ground about gardens and on dumps. July — Aug. Fugitive from southern Asia.

**CUCURBITA** L. Gourd. Squash. Pumpkin.**Cucurbita maxima** Duchesne (greatest).

Hubbard Squash. Marrow Squash.

Rare. Cultivated and waste ground. July — Aug. Fugitive, probably from tropical America.

**Cucurbita moschata** Duchesne (musky).

China Squash. Canada or Winter Crookneck Squash.

Rare. Waste ground and about dumps. July — Aug. Fugitive, probably from tropical America.

**Cucurbita Pepo** L. (classical name).

Pumpkin.

Rare or occasional. Waste places and cultivated ground. July — Aug. Fugitive, probably from tropical America.

Was formerly cultivated by the Indians.

**Cucurbita Pepo** L., var. **condensa** Bailey (condensed).

Summer Crookneck Squash. Scallop Squash.

Rare. Waste and cultivated ground. June — Aug. Fugitive from tropical America.

**SICYOS** L. One-seeded Bur Cucumber.**Sicyos angulatus** L. (angular).

Star Cucumber.

Moist rich soil of river banks and waste places. Frequent to common along the coast and larger rivers; rare elsewhere. Aug.—Sept.

**ECHINOCYSTIS** Torr. & Gray. Wild Balsam-apple.**Echinocystis lobata** (Michx.) Torr. & Gray (lobed).*Micrampelis lobata* Greene.

Wild Cucumber.

Occasional or frequent. Moist rich soil along streams and in waste places. July — Sept.

Often planted for ornament.

**CAMPANULACEAE. BLUEBELL FAMILY.****SPECULARIA** Fabricius. Venus's Looking-glass.**Specularia perfoliata** (L.) A. DC. (with leaves that meet around the stem).*Legouzia perfoliata* Britton.

Venus's Looking-glass.

Frequent to common. Dry woods and fields. June — Aug.  
Reduced forms occur having all the flowers cleistogamous.

**CAMPANULA L.** Bellflower.

**Campanula rapunculoides L.** (like *Campanula Rapunculus*, the Rampion).

Bellflower.

Occasional. Roadsides and waste places. June — Oct.  
Naturalized from Europe.

The var. *UCRANICA* (Bess.) K. Koch occurs at Groton (Graves), Putnam and Southington (Bissell), Huntington (Eames).

**Campanula rotundifolia L.** (round-leaved).

*Campanula intercedens* Witasek.

Harebell. Bluebell.

Dry, often rocky soil or on ledges. Rare in the eastern, central and southern parts of the state, becoming frequent or common in northwestern Connecticut. June — Sept.

**Campanula patula L.** (open; spreading).

Rare. Plainfield, a few plants in a newly seeded field (J. L. Sheldon). June. Fugitive from Europe.

**Campanula aparinoides Pursh** (like *Galium Aparine*, the Bedstraw).

Marsh Bellflower.

Frequent. Bogs and wet meadows. Late June — July.

**Campanula carpatica Jacq.**

Rare. Southington, a few plants in newly seeded ground (Andrews & Bissell). May — June. Fugitive from Europe.

**JASIONE L.** Sheep's-bit.

**Jasione montana L.** (of mountains).

Sheep's-bit.

Rare. Plainfield, a few plants in a newly seeded field (J. L. Sheldon), East Lyme (Miss F. McCook). June. Fugitive from Europe.

## LOBELIACEAE. LOBELIA FAMILY.

## LOBELIA L.

**Lobelia cardinalis** L. (cardinal).

Cardinal-flower.

Frequent. Open or shaded wet places. July — Sept.

One of our most brilliant flowers, and often succeeds well in cultivation. The plant is sometimes used medicinally.

**Lobelia siphilitica** L. (syphilitic).

Great Blue Lobelia.

Moist grassland or borders of streams. Orange (Eames), Oxford (Harger), and occasional westward and northward, becoming frequent or common in Litchfield County. July — Sept.

The plant is sometimes used medicinally.

**Lobelia spicata** Lam. (spiked).

Frequent to common. Fields and meadows. June — Aug.

**Lobelia Kalmii** L.

Swamps and on wet ledges. Goshen (J. P. Brace, 1822), Litchfield and Norfolk (Bissell), New Milford (C. K. Averill & E. H. Austin), becoming frequent in the limestone district of northwestern Connecticut. July — Oct.

**Lobelia inflata** L. (inflated).

Indian Tobacco.

Common. Woods, fields, roadsides and cultivated ground. July — Oct.

The leaves, tops and seeds are medicinal, the leaves and tops officinal. Somewhat poisonous, resembling tobacco in its action.

**Lobelia Dortmanna** L.

Water Lobelia.

In ponds and lakes. Rare in most districts: Salisbury (Mrs. C. S. Phelps), Canaan (J. H. Barbour), Litchfield (L. M. Underwood), Middlebury (Harger), Ridgefield (Eames), Monroe (H. C. Beardslee), Mansfield (Weatherby), Thompson (R. W. Woodward & Weatherby), Killingly (Weatherby & Bissell), Salem (W. A. Setchell), Griswold (E. F. Burle-



son. Occasional near the coast in New London County.  
July — Sept.

## COMPOSITAE. COMPOSITE FAMILY.

### VERNONIA Schreb. Ironweed.

#### **Vernonia noveboracensis** Willd.

Ironweed.

Occasional, frequent or common. Low pastures and open swamps. July — Sept.

The root is medicinal. Sometimes a troublesome weed in low pastures.

### EUPATORIUM L. Thoroughwort.

#### **Eupatorium purpureum** L. (purple).

Joe-Pye Weed. Purple Boneset. Trumpet Weed. Queen of the Meadow. Gravel-root.

Rare, local or frequent. Moist woods and in swamps.  
July — Sept.

The root is valued for its medicinal properties and the leaves are also used.

#### **Eupatorium purpureum** L., var. **maculatum** (L.) Darl. (spotted).

*Eupatorium maculatum* L.

Joe-Pye Weed. Trumpet Weed. Purple Boneset.

Common. Open swampy places. July — Sept.

Sometimes occurs with white flowers. Medicinal like the typical form of the species.

#### **Eupatorium purpureum** L., var. **amoenum** (Pursh) Gray (pleasant).

*Eupatorium maculatum* L., var. *amoenum* Britton.

Rare. In swamps: Preston (Graves), Huntington (Eames). July — Sept.

#### **Eupatorium hyssopifolium** L. (having leaves like Hyssop).

Rare. Dry ground, mostly in the shore towns: East Lyme (Miss A. M. Ryon & Graves), Old Saybrook, Westbrook and Orange (Harger), Bridgeport (Eames). Inland at Southington (Bissell). Aug.—Sept.

**Eupatorium verbenaefolium** Michx. (having leaves like *Verbena*, the Vervain).

*Eupatorium teucrifolium* Willd.

Rough Boneset.

Open woods and borders of swamps, usually in sandy soil. Rare at Monroe (Harger), and Southington (Bissell); occasional in the valley of the Connecticut River, becoming frequent near and along the coast. Aug.—Sept.

Medicinal like *Eupatorium perfoliatum*.

**Eupatorium pubescens** Muhl. (downy).

*Eupatorium rotundifolium* L., var. *ovatum* Torr.

Open woods and thickets, mostly in dry ground. Rare at Stratford (Eaton Herb., Eames), and East Haven (Bissell); occasional in New London County and in the valley of the Connecticut River. Aug.—Sept.

**Eupatorium sessilifolium** L. (sessile-leaved).

Upland Boneset.

Dry woods. Rare in most districts: Southington and Meriden (Andrews & Bissell), Beacon Falls, Ansonia and Seymour (Harger), Salisbury (Mrs. C. S. Phelps). Occasional in the vicinity of the coast. Aug.—Sept.

**Eupatorium perfoliatum** L. (with leaves meeting around the stem).

Boneset. Thoroughwort. Ague-weed. Wild Sage.

Common. Low or wet ground. Aug.—Sept.

The var. *TRUNCATUM* Gray (cut off) is rare: Old Saybrook (Harger), Woodbury (Eames & C. C. Godfrey).

A form with the leaves in whorls of three has been collected at Bolton (Dr. E. J. Thompson).

The leaves and tops are much used in domestic medicine and are officinal.

**Eupatorium urticaefolium** Reichard (having leaves like *Urtica*, the Nettle).

*Eupatorium ageratoides* L.f.

White Snakeroot.

Occasional, local or frequent. Rocky woods in rich soil. Aug.—Sept.

The root is medicinal.

**Eupatorium aromaticum** L. (aromatic).

White Snakeroot.

Rare. Dry woods: Lisbon (Graves), Norwich (Mrs. E. E. Rogers), New Haven (Eaton Herb.). Aug.

The root is used medicinally like that of *Eupatorium urticaefolium*.

**MIKANIA** Willd. Climbing Hemp-weed.

**Mikania scandens** (L.) Willd. (climbing).

*Willoughbya scandens* Kuntze.

Climbing Boneset or Hemp-weed.

Swamps and along streams. Occasional or local in most parts of the state; frequent in southwestern Connecticut. Aug.—Sept.

**LIATRIS** Schreb. Button Snakeroot. Blazing Star.

**Liatis scariosa** Willd. (thin and dry).

*Lacinaria scariosa* Hill.

Devil's Bit. Blazing Star.

Dry, mostly sandy soil of fields, thickets and sand dunes. Frequent in the shore towns; occasional or local northward, especially in the central part of the state. Aug.—Oct.

The root is medicinal.

**GRINDELIA** Willd. Gum-plant. Tar-weed.

**Grindelia squarrosa** (Pursh) Dunal (with spreading scales).

Gum-plant.

Rare. Waste ground: Naugatuck (B. B. Bristol). July—Sept. Fugitive from the West.

The plant is used as a medicine by the Indians. The leaves and fruiting tops are officinal.

**CHRYSOPSIS** Nutt. Golden Aster.

**Chrysopsis falcata** (Pursh) Ell. (sickle-shaped).

Golden Aster.

In sand, especially on sea beaches. Rare inland: Colchester (Dr. E. J. Thompson). Plentiful on the coast from Milford (Harger, Eames) westward to Westport, especially on beaches in Stratford and Bridgeport (Eames). July—Oct.

**SOLIDAGO L.** Golden-rod.**Solidago squarrosa** Muhl. (with spreading scales).

Rare or local. Dry rocky woods in either trap or limestone soils: Meriden (Eaton Herb.), Berlin and New Britain (Bissell), Southington (Andrews), Farmington and Cheshire (Harger), Salisbury (Bissell). Aug.—Sept.

**Solidago caesia** L. (bluish-gray).

Frequent. Woods and thickets, usually in rich soil. Late Aug.—Oct.

The var. *AXILLARIS* (Pursh) Gray (axillary) is occasional with the species. The var. *PANICULATA* Gray (panicled) occurs at Willington (Bissell) and New Haven (D. C. Eaton). A hybrid with *Solidago latifolia* has been collected at Lantern Hill, North Stonington (Graves).

**Solidago latifolia** L. (broad-leaved).

*Solidago flexicaulis* L. in part.

Occasional or local. Rich, often rocky, woods. Aug.—Oct.

**Solidago bicolor** L. (two-colored).

White Golden-rod.

Common. Dry fields and open woods. Aug.—Oct.

**Solidago hispida** Muhl. (rough-hairy).

*Solidago bicolor* L., var. *concolor* Torr. & Gray.

Rare. Dry rocky woods or fields: Franklin (R. W. Woodward), Waterford (Graves), Meriden (Andrews), Simsbury (I. Holcomb), Waterbury (A. E. Blewitt), Oxford (Harger), Farmington and Winchester (Bissell). Aug.—Sept.

**Solidago puberula** Nutt. (slightly downy).

Rare or local. Rocky or sandy woods and fields, sometimes in moist ground: North Stonington, Voluntown, Waterford and Stafford (Graves), Union (Graves, Bissell), Hampton and East Hartford (Weatherby), Glastonbury (Mrs. F. W. Starmer), Guilford (G. H. Bartlett), Southington (Andrews & Bissell), Oxford (Harger), Milford (Eames), Salisbury (Bissell). Aug.—Sept.

A handsome species.

**Solidago uliginosa** Nutt. (growing in marshes).

Rare. Salisbury, in swamps (Bissell). Aug.—Sept.

**Solidago speciosa** Nutt. (showy).

Dry fields, pastures and open woods. Putnam (Weatherby & Bissell), Willington (Graves & Bissell), Hampton and South Windsor (Weatherby), Salisbury (Mrs. C. S. Phelps, Bissell); becoming occasional southward and frequent near the coast. Sept.—Oct.

Of striking habit and a beautiful plant when in flower.

**Solidago sempervirens** L. (evergreen).

Common on and about salt marshes and along tidal streams. Aug.—Oct.

**Solidago patula** Muhl. (open; spreading).

Wet places, either open or shaded. Rare in New London County. Occasional or frequent elsewhere. Aug.—Sept.

**Solidago arguta** Ait. (sharp).

Rocky woods or in half-shade. Rare in New London County: Franklin (R. W. Woodward). Occasional or frequent elsewhere. Aug.—Sept.

**Solidago juncea** Ait. (like *Juncus*, the Rush).

Common. Dry fields and roadsides. July—Aug.

This is the earliest to bloom of our common Golden-rods.

A form approaching var. *ramosa* Porter & Britton has been found at Wolcott (H. S. Clark & Bissell), and Derby (Eames).

**Solidago neglecta** Torr. & Gray (neglected).

Frequent. Swamps and open bogs. Aug.—Sept.

**Solidago uniligulata** (DC.) Porter (having one ray flower).

*Solidago neglecta* Torr. & Gray, var. *linoides* Gray.

Rare. In swamps: Groton (Graves), Thompson (Weatherby & Bissell), Franklin (R. W. Woodward), Salisbury (Bissell). Aug.

**Solidago odora** Ait. (fragrant).

Sweet Golden-rod.

Dry woods and copses, usually in sandy soil. Occasional

in the central part of the state and in the valley of the Housatonic River; frequent near the coast. July — Aug.

The leaves and tops are used medicinally.

**Solidago Elliottii** Torr. & Gray.

Rare. Usually in swampy ground but sometimes in drier places: Voluntown, Groton and Waterford (Graves), Windsor (H. S. Clark, Weatherby & Bissell), Southington (Andrews & Bissell), Glastonbury and Goshen (Bissell). Sept.

**Solidago ulmifolia** Muhl. (having leaves like *Ulmus*, the Elm).

Occasional. Dry woods and copses. Aug.—Sept.

**Solidago rugosa** Mill. (wrinkled).

*Solidago altissima* of authors, not L.

Golden-rod. Wallweed.

Common. Fields, thickets and roadsides in various soils.

Aug.—Oct.

The var. *SPHAGNOPHILA* Graves (loving peat-moss) occurs in sphagnum swamps in Voluntown and Waterford (Graves).

× **Solidago asperula** Desf. (roughish).

Rocky ground. Occasional on the coast from the mouth of the Connecticut River eastward (Graves). Aug.—Sept.

This is believed to be a hybrid between *Solidago rugosa* and *Solidago sempervirens*.

**Solidago aspera** Ait. (rough).

*Solidago rugosa* of Gray's Manual ed. 6 in part.

Occasional. Woods, fields and roadsides, usually in dry ground. Aug.—Sept.

**Solidago nemoralis** Ait. (of groves).

Common. Dry fields and open places. Aug.—Sept.

**Solidago canadensis** L.

*Solidago canadensis* L., var. *glabrata* Porter.

Rare. Alluvial soil at Selden's Cove, Lyme (Graves).

Late July — Aug.

**Solidago altissima** L. (tallest).

*Solidago canadensis* of Gray's Manual ed. 6 in part.

*Solidago canadensis* L., var. *scabra* Torr. & Gray.

*Solidago canadensis* L., var. *scabriuscula* Porter.

Golden-rod.

Common. Fields, roadsides and fence-rows. Aug.—Sept.  
A handsome and well-marked species.

**Solidago serotina** Ait. (late).

Rare, occasional or local. Moist places, often in alluvial soil. July — Aug.

**Solidago serotina** Ait., var. **gigantea** (Ait.) Gray (gigantic).

Occasional or frequent. Low fields and thickets and borders of swamps. Aug.—Sept.

**Solidago rigida** L. (stiff).

Rare or local. Dry fields and open woods: Stonington and Mansfield (Graves), Andover (Mrs. C. S. Phelps), East Lyme (Miss A. M. Ryon, Graves), Guilford (G. H. Bartlett), Branford (O. Harger), East Haven and Brookfield (Harger), Milford (Bissell), Stratford (Eames), Monroe (H. C. Beardslee), Norwalk (E. H. Baldwin). Aug.—Oct.

**Solidago graminifolia** (L.) Salisb. (grass-leaved), var. **Nuttallii** (Greene) Fernald.

*Solidago lanceolata* Gray's Manual ed. 6 in part.

*Euthamia graminifolia* Britton's Manual in part.

Frequent or common. Moist ground, usually in rich soil, and in swamps. Aug.—Sept.

**Solidago tenuifolia** Pursh (narrow-leaved).

*Euthamia caroliniana* of American authors in part, not Greene.

*Euthamia tenuifolia* Greene.

Dry or moist fields. Common in southwestern Connecticut; occasional or local elsewhere. Aug.—Oct.

Sometimes troublesome to farmers as a weed in pastures.

### BOLTONIA L'Hér.

**Boltonia asteroides** (L.) L'Hér. (aster-like).

Boltonia.

Rare. Roadsides, waste ground and rocky woods: Thompson (Weatherby & Bissell), Hartford (A. W. Driggs), Meriden (R. W. Woodward & Andrews). Sept. Introduced from the West.

A good plant for hardy borders and often cultivated for ornament.

**ASTER** L. Starwort. Aster. Frost-flower.

**Aster divaricatus** L. (widely divergent).

*Aster corymbosus* Ait.

*Aster carmesinus* Burgess.

*Aster tenebrosus* Burgess.

*Aster divaricatus* and varieties Burgess.

*Aster Claytoni* Burgess.

*Aster Claytoni* Burgess, var. *crispicans* Burgess.

Common. Woods and thickets, in either moist or dry ground. Aug.—Sept.

A very variable species with many described forms.

**Aster Schreberi** Nees.

*Aster curvescens* Burgess.

*Aster curvescens* Burgess, var. *umbelliformis* Burgess.

*Aster curvescens* Burgess, var. *oviformis* Burgess.

Rare, local or frequent. Woods and thickets, usually in rich soil. July—Aug.

**Aster macrophyllus** L. (large-leaved).

*Aster roscidus* Burgess.

*Aster macrophyllus* and varieties Burgess.

Rare or occasional. Rich woods, more often in rocky places. Mid-July—Sept.

The var. **PINGUIFOLIUS** Burgess (greasy-leaved) occurs at Colchester (Graves), Meriden and Southington (Andrews & Bissell), Bristol and Norwalk (Bissell), Trumbull and Fairfield (Eames), Bridgeport and New Milford (C. K. Averill).

The var. **IANTHINUS** (Burgess) Fernald (violet-colored), *Aster ianthinus* Burgess, *Aster violaris* Burgess, *Aster multi-formis* Burgess, *Aster nobilis* Burgess, is rare: Groton (Graves), Union (Bissell), Meriden (Andrews), Milford (H. S. Clark), Fairfield County (Eames).

**Aster Herveyi** Gray.

Rare. Dry woods: Groton (Graves), Stratford (Eames). Aug.—Sept.

**Aster spectabilis** Ait. (showy).

Rare. Dry rocky or sandy soil: Voluntown, Groton and Waterford (Graves). Sept.



**Aster radula** Ait. (a scraper; referring to the rough leaves).

Rare. Low ground: Voluntown (Graves), East Hartford (Weatherby), Hamden (Eaton Herb.). Sept.

**Aster novae-angliae** L.

New England Aster.

Frequent. Fields and roadsides, usually in moist rich soil. Aug.—Oct.

The var. *ROSEUS* (Desf.) DC. (rosy; pink) is sometimes seen.

One of the most beautiful of our Asters.

**Aster patens** Ait. (spreading).

Frequent. Dry fields and open woods, in sandy or sterile soil. Aug.—Sept.

**Aster undulatus** L. (wavy).

*Aster undulatus* and varieties Burgess.

Common. Woods, thickets and fields in dry soil. Aug.—Oct.

A very variable species.

**Aster cordifolius** L. (having heart-shaped leaves).

*Aster cordifolius* and varieties Burgess.

Common. Woods, thickets and roadsides. Sept.—Oct.

The var. *POLYCEPHALUS* Porter (many-headed) is occasional, as well as a variety of forms intermediate between it and the species. A hybrid with *Aster ericoides* occurs at Salisbury (Mrs. C. S. Phelps & Bissell).

**Aster Lowrieanus** Porter.

Rare. Dry open woods: New Haven (R. W. Woodward). Sept.

The var. *LANCEOLATUS* Porter (lance-shaped), var. *lanceifolius* Porter, *Aster cordifolius* L., var. *lanceolatus* Porter, is rare or local in rich woods.

A great variety of intermediates between the variety and the typical form have been noted.

**Aster laevis** L. (smooth).

Frequent or common. Moist or dry fields, thickets and borders of woods. Late July — Sept.

The var. *AMPLIFOLIUS* Porter (large-leaved) occurs at Hampton (A. W. Driggs).

Very variable as to form of leaf. A handsome species.

**Aster concinnus** Willd. (neat; elegant).

Rare. Southington, rock crevices of dry shaded ledges at Meriden Mt. (Andrews). Sept.

One of the rarest plants of North America. Three, or doubtfully four, other stations only are known. See *Rhodora* 2:166.

**Aster ericoides** L. (like *Erica*, the Heath).

Common. Dry mostly open places. Sept.—Oct.

The var. *VILLOSUS* Torr. & Gray (hairy), var. *pilosus* Porter, is occasional in New London County (Graves), and occurs as far west as New Haven (J. A. Allen). A hybrid with *Aster undulatus* occurs at Oxford (Harger).

**Aster amethystinus** Nutt. (of the color of amethyst).

Rare. Dry to moist open ground: New London and Sprague (Graves), Oxford and Southbury (Harger), Salisbury (Mrs. C. S. Phelps). Sept.

**Aster multiflorus** Ait. (many-flowered).

Common. Dry fields and roadsides. Sept.—Oct.

The var. *EXIGUUS* Fernald (small; mean) sometimes occurs with the typical form.

**Aster dumosus** L. (bushy).

Dry soil of open fields or in half shade. Southington (Andrews & Bissell), Farmington (Bissell), Manchester (Weatherby), Stafford (Graves), Old Saybrook (Bissell); becoming frequent in eastern Connecticut. July—Sept. The so-called *Aster Gravesii* Burgess is apparently a hybrid of *Aster dumosus* with some other species, probably *Aster laevis*, and occurs at Waterford (Graves).

**Aster dumosus** L., var. *coridifolius* (Michx.) Torr. & Gray (having leaves like *Coris*, a genus of the Primrose Family).

Rare. Sandy thickets or more open ground: Ellington (Weatherby), Southington (Bissell). Aug.—Sept.

**Aster dumosus** L., var. *strictior* Torr. & Gray (more upright).

Rare. Dry fields: Stafford and Groton (Graves). Aug.—Sept.

**Aster vimineus** Lam. (bearing long flexible twigs).

Common. Moist fields and roadsides. Aug.—Oct.

The var. *FOLIOLOSUS* Gray (leafy) is occasional, growing with the typical form.

**Aster lateriflorus** (L.) Britton (having one-sided flower-clusters).

*Aster diffusus* Ait.

*Aster lateriflorus* Britton, var. *pendulus* Burgess.

Common. Fields and woods in either moist or dry ground. Aug.—Oct.

**Aster lateriflorus** (L.) Britton, var. *hirsuticaulis* (Lindl.) Porter (hairy-stemmed).

*Aster hirsuticaulis* Lindl.

*Aster diffusus* Ait., var. *hirsuticaulis* Gray.

Occasional. Moist shaded ground. Sept.—Oct.

**Aster lateriflorus** (L.) Britton, var. *thyrsoides* (Gray) Sheldon (wand-like).

*Aster diffusus* Ait., var. *thyrsoides* Gray.

Rare. Fields: Fairfield and Westport (Eames). Sept.—Oct.

**Aster Tradescanti** L.

Rare. In swamps: East Hartford (A. W. Driggs), Stratford (Eames), Salisbury (Bissell). Aug.—Sept.

**Aster paniculatus** Lam. (panicled).

Frequent or common. Moist roadsides and thickets, and in alluvial soil along streams. Aug.—Sept.

The var. *SIMPLEX* (Willd.) Burgess (simple) and the var. *ACUTIDENS* Burgess (having sharp teeth) occur rarely in moist ground.

**Aster longifolius** Lam. (long-leaved).

Rare. In swamps: Farmington and Litchfield (Bissell). Sept.

**Aster novi-belgii** L.

Moist or wet ground or in swamps. Common along the

coast; frequent in the Connecticut Valley; occasional, local or rare elsewhere. Sept.—Oct.

**Aster tardiflorus** L. (late-flowering).

Rare. Borders of swamps and in low thickets: Stafford, Plymouth and Salisbury (Bissell). Sept.

**Aster prenanthoides** Muhl. (like *Prenanthes*, the Rattlesnake-root).

Rare. Wet thickets: Trumbull (Eames). A specimen in the Bassett Herbarium at Waterbury, labelled "Ct.," is apparently of this species. Sept.

**Aster puniceus** L. (crimson).

Red-stalked Aster.

Frequent to common. Open or wooded wet places. Aug.—Sept.

The var. *compactus* Fernald (close); the var. *firmus* (Nees) Torr. & Gray (strong), var. *laevicaulis* Gray; the var. *demissus* Lindl. (low); and the var. *lucidulus* Gray (somewhat shining) are all reported to occur rarely or occasionally with the species.

The root is medicinal.

**Aster umbellatus** Mill. (umbellate).

*Doellingeria umbellata* Nees.

Frequent. Moist woods and thickets. July—Sept.

**Aster infirmus** Michx. (not strong).

*Doellingeria infirma* Greene.

Rare. Dry woods and thickets: West Hartford (Harger), Southington (Andrews & Bissell), Meriden and Wolcott (Andrews), New Milford and Kent (C. K. Averill), New Fairfield (Eames & C. C. Godfrey). July—Aug.

**Aster linariifolius** L. (having leaves like *Linaria*, the Toad-flax).

*Ionactis linariifolius* Greene.

Frequent or local. Dry open sandy or sterile soil. Aug.—Oct.

**Aster tataricus** L. f.

Siberian Aster.

Rare. Killingly, escaped from cultivation to waste ground (Graves). Oct. Introduced from Asia.

**Aster acuminatus** Michx. (taper-pointed).

Occasional or frequent. Rich woods. Aug.—Sept.

**Aster tenuifolius** L. (slender-leaved).

Frequent in salt marshes and about tidal waters. Aug.—Oct.

**Aster subulatus** Michx. (awl-shaped).

Common in salt marshes. Sept.—Oct.

#### ERIGERON L. Fleabane.

**Erigeron pulchellus** Michx. (pretty).

*Erigeron bellidifolius* Muhl.

Robin's Plantain.

Common. Fields, meadows and open woods, usually in moist soil. May—June.

**Erigeron philadelphicus** L.

Daisy Fleabane. Skevish.

Fields, meadows and roadsides. Norwich (J. Trumbull), Guilford (G. H. Bartlett), Southington (Andrews), and frequent in towns along the Connecticut and Housatonic Rivers. June—July.

The herb is medicinal.

**Erigeron annuus** (L.) Pers. (annual).

Daisy Fleabane. Sweet Scabious.

Common. Fields and waste places. June—Sept.

The herb has medicinal properties.

**Erigeron ramosus** (Walt.) BSP. (branching).

*Erigeron strigosus* Muhl.

Daisy Fleabane.

Common. Fields and waste places. June—Sept.

The var. DISCOIDEUS (Robbins) BSP. (having disk flowers only) is occasional with the species.

**Erigeron canadensis** L.

*Leptilon canadense* Britton.

Horse-weed. Canada Fleabane. Butter-weed.

Common. Cultivated and waste ground. July — Oct.

The herb is used medicinally and the oil distilled from it is officinal. Often a troublesome weed.

**SERICOCARPUS** Nees. White-topped Aster.

**Sericocarpus asteroides** (L.) BSP. (aster-like).

*Sericocarpus conyzoides* Nees.

Common. Dry woods and fields. July — Aug.

**Sericocarpus linifolius** (L.) BSP. (having leaves like *Linum*, the Flax).

*Sericocarpus solidagineus* Nees.

Rare or local. Dry fields, woods and on rocky summits: Groton and Waterford (Graves), East Hartford (A. W. Driggs & Weatherby), East Windsor (Bissell), Southington and Plainville (Andrews, Bissell), Hamden, Waterbury and Oxford (Harger), Beacon Falls and Huntington (Eames). July — Aug.

**BACCHARIS** L. Groundsel Tree.

**Baccharis halimifolia** L. (having leaves like *Atriplex Halimus*). Groundsel Tree. Pencil Tree.

Rare. Borders of salt marshes: Stonington and Groton (Graves), New London (Miss M. Crofton), East Lyme (Miss A. M. Ryon, Gen. Haskins), East Haven (Harger), Bridgeport (C. K. Averill, Eames), Norwalk (Miss A. E. Carpenter, Bissell). Sept.; fruit Oct.

**PLUCHEA** Cass. Marsh Fleabane.

**Pluchea camphorata** (L.) DC. (having the odor of camphor). Salt Marsh Fleabane.

Frequent on salt marshes along the coast. Aug.—Oct. Rarely occurs with white flowers.

**ANTENNARIA** Gaertn. Everlasting. Ladies' Tobacco. Pussy's Toes.

**Antennaria Parlinii** Fernald.

*Antennaria arnoglossa* Greene.

Rare. Dry woods and banks: Guilford (G. H. Bartlett), East Hartford (Weatherby), New Haven (M. L. Fernald),

Woodstock, Wallingford and Monroe (Harger), Winchester (Bissell). May.

**Antennaria canadensis** Greene.

Rare or local. Dry woods and fields: Stafford (Graves), Lisbon and Southbury (Harger), Bolton, East Hartford and Salisbury (Weatherby), West Hartford (A. W. Driggs), Southington (Andrews & Bissell), North Canaan (Bissell). May.

**Antennaria plantaginifolia** (L.) Richards. (plantain-leaved).

*Antennaria plantaginea* R. Br.

Plantain-leaved Everlasting.

Frequent to common. Dry woods and fields. Late April — May.

**Antennaria fallax** Greene (deceitful).

*Antennaria ambigens* Fernald.

Dry woods and fields. Frequent in the southwestern part of the state, becoming local or occasional eastward and northward. May.

**Antennaria neodioica** Greene.

Frequent. Dry fields and open woods. April — May.

**Antennaria neglecta** Greene (neglected).

Indian Tobacco.

Common. Dry or sterile places, mostly in open fields. April — May.

The earliest flowering and most plentiful species of the genus.

**ANAPHALIS** DC. Everlasting.

**Anaphalis margaritacea** (L.) Benth. & Hook. (pearly).

Pearly Everlasting.

Frequent to common. Fields and pastures, usually in dry soil. July — Sept.

The leaves are medicinal and reputed to be a cure for rattlesnake bite.

**GNAPHALIUM** L. Cudweed.

**Gnaphalium polycephalum** Michx. (many-headed)

*Gnaphalium obtusifolium* of Britton's Manual.

Common or Sweet Everlasting.

Common. Dry ground in various soils. Aug.—Sept.

**Gnaphalium decurrens** Ives (decurent).

Everlasting.

Rare or local. Dry fields and woods: Southington (Bissell), New Haven (E. Ives), Oxford, Seymour and Middlebury (Harger), Litchfield (Eaton Herb.), Huntington, New Milford and Kent (Eames), Salisbury (Mrs. C. S. Phelps). Aug.—Sept.

**Gnaphalium uliginosum** L. (growing in marshes).

Cudweed. Low Cudweed.

Common. Fields and roadsides in moist ground. June—Sept.

**Gnaphalium purpureum** L. (purple).

Purplish Cudweed.

Rare or local. Dry fields and pastures: Stonington, Groton and Waterford (Graves). June—Aug.

**INULA** L. Elecampane.

**Inula Helenium** L. (classical name).

Elecampane.

Occasional to frequent. Fields, pastures and roadsides, mostly in moist rich soil. July—Sept. Naturalized from Europe.

The root is medicinal and was formerly official.

**POLYMNIA** L. Leafcup.

**Polymnia canadensis** L.

Leafcup.

Rare or local. Rocky open woods on slopes of loose trap rock: North Branford (G. H. Bartlett), Durham, north end of Pistapaug Pond (O. D. Allen), also in Wallingford, in a similar situation  $\frac{1}{4}$  mile from the Durham locality (Harger). Sept.

**SILPHIUM** L. Rosin-weed.

**Silphium perfoliatum** L. (having leaves that meet around the stem).

Cup Plant.



Rare. Waste ground: Southington (Weatherby & Bissell), Fairfield (Eames). Aug. Introduced from the West. The rhizome is medicinal.

**IVA** L. Marsh Elder. Highwater-shrub.

**Iva oraria** Bartlett (of the coast).

*Iva frutescens* of Gray's Manual ed. 6, not L.

Highwater-shrub.

Common on salt marshes and seashores. July — Sept.

**Iva xanthifolia** Nutt. (having leaves like *Xanthium*, the Clotbur).

Rare. Waste places: Naugatuck (A. E. Blewitt), Bridgeport (Eames), New Milford (E. H. Austin). July — Sept. Introduced from the West.

**AMBROSIA** L. Ragweed.

**Ambrosia bidentata** Michx. (two-toothed).

Rare. Bridgeport, in waste ground (Eames). Sept. Fugitive from the West.

**Ambrosia trifida** L. (three-cleft).

Great Ragweed.

Moist places and alluvial flats. Usually rare; but local, frequent or common along the larger rivers and in southwestern Connecticut. Aug.—Sept.

The var. *INTEGRIFOLIA* (Muhl.) Torr. & Gray (having entire leaves) is occasional with the typical form.

A coarse and unsightly weed.

**Ambrosia artemisiifolia** L. (having leaves like *Artemisia*, the Wormwood).

Ragweed. Hog-weed. Bitter-weed. Roman Wormwood.

Common. Open places, especially in waste and cultivated ground. July — Sept.

A troublesome and pernicious weed in all soils. Its pollen is said to cause hay fever. The plant is medicinal.

**XANTHIUM** L. Clotbur. Cocklebur.

**Xanthium spinosum** L. (spiny).

Prickly or Spiny Clotbur.

Rare. Waste ground: Bridgeport (Eames), Naugatuck (A. E. Blewitt). Aug.—Sept.; fruit Sept.—Nov. Adventive from tropical America.

The leaves are medicinal.

**Xanthium canadense** Mill.

*Xanthium glabratum* Britton.

*Xanthium pungens* Wallr. (?).

*Xanthium strumarium* of Britton & Brown's Ill. Flora.

Rare or local. Sandy roadsides and beaches, banks of streams and in waste places: Stratford and Fairfield (Eames), Oxford (Harger), West Hartford, Goshen, Norwalk and Sharon (Bissell). Aug.—Sept.

**Xanthium commune** Britton (growing in colonies).

Rare. Banks of streams and in waste places: East Windsor (Bissell), Stratford, Bridgeport, Fairfield and New Milford (Eames), Stamford (A. W. Driggs). Aug.—Sept.

**Xanthium echinatum** Murr. (hedgehog-like).

*Xanthium canadense* Mill., var. *echinatum* Gray.

Frequent or common. Waste places, banks of streams and about ponds. Aug.—Sept.

**HELIOPSIS** Pers. Ox-eye.

**Heliopsis helianthoides** (L.) Sweet (like Helianthus, the Sunflower).

*Heliopsis laevis* Pers.

Rare. Waste ground and sandy woods: Southington (Andrews & Bissell), Seymour (Harger), Naugatuck (A. E. Blewitt), Fairfield (Eames). July — Sept. Introduced from the West.

**Heliopsis scabra** Dunal (rough).

Rare. Dry fields and roadsides: East Lyme (Miss A. M. Ryon & Graves), Montville (Graves), Berlin (Andrews & Bissell), Cheshire (A. E. Blewitt), Oxford (Harger), Seymour and Huntington (Eames). July — Sept.

**RUDBECKIA** L. Cone-flower.

**Rudbeckia triloba** L. (three-lobed).

Rare. Roadsides and banks of streams: Hartford (H. S.

Clark & Bissell), Meriden (Andrews), Waterbury (A. E. Blewitt), Woodbury (Eames & C. C. Godfrey), New Milford (C. K. Averill, Eames), Salisbury (Mrs. C. S. Phelps). Aug.—Sept. Introduced from the West.

**Rudbeckia subtomentosa** Pursh (somewhat woolly).

Rare. Roadside in Windsor (Bissell). Aug.—Sept. Adventive from the West.

**Rudbeckia hirta** L. (rough).

Yellow Daisy. Black-eyed Susan. Nigger-head.

Common. Fields and meadows, more often in dry ground. June — Aug. Introduced from the West.

**Rudbeckia speciosa** Wenderoth (showy).

Cone-flower.

Local. Waterford (Miss A. Smith), Brookfield, fairly plentiful in a field and along a roadside (Harger). Aug.—Sept. Adventive from the south-central United States.

**Rudbeckia laciniata** L. (slashed).

Tall Cone-flower. Thimble-weed.

Occasional to frequent. Moist thickets and along streams. July — Sept.

A double-flowered form of this is often cultivated for ornament under the name of Golden Glow, and sometimes escapes to roadsides and waste ground. The plant is medicinal.

**BRAUNERIA** Neck. Purple Cone-flower.

**Brauneria pallida** (Nutt.) Britton (pale).

*Echinacea angustifolia* of authors, not DC.

Purple Cone-flower.

Rare. Dry ground: Griswold (E. F. Burleson), East Lyme (Mrs. F. H. Dart), Vernon (A. W. Driggs), Southington (Andrews). July. Adventive from the West.

**LEPACHYS** Raf.

**Lepachys pinnata** (Vent.) Torr. & Gray (pinnate).

*Ratibida pinnata* Barnhart.

Cone-flower.

Rare. Oxford, in dry fields (Harger). Aug. Fugitive from the West.

## HELIANTHUS L.      Sunflower.

### **Helianthus annuus** L. (annual).

Common Sunflower.

Occasional. Waste places as an escape from cultivation.  
July — Sept. Adventive from the western United States.

Cultivated for ornament and for its seeds which yield an oil or are fed to poultry. The plant is medicinal.

### **Helianthus petiolaris** Nutt. (provided with leaf-stalks).

Rare. Roadsides and waste ground as an escape from cultivation: East Lyme (Miss A. M. Ryon), Hartford (H. S. Clark), Naugatuck (B. B. Bristol), New Milford (E. H. Austin). Aug.—Sept. Introduced from the western United States.

### **Helianthus debilis** Nutt. (weak).

Rare. Waste ground: Waterbury (A. E. Blewitt).  
Sept.—Oct. Fugitive from the South.

### **Helianthus debilis** Nutt., var. **cucumerifolius** (Torr. & Gray) Gray (cucumber-leaved).

Rare. New London, escaped from gardens (Graves),  
Bridgeport (Eames). July — Aug. Fugitive from the South-west.

### **Helianthus scaberrimus** Ell. (very rough).

*Helianthus rigidus* Desf.

Rare. Dry fields: Waterbury (A. E. Blewitt), Oxford  
(Harger). Aug.—Sept. Adventive from the West.

### **Helianthus laetiflorus** Pers. (flowering abundantly).

Rare. Glastonbury, along roadside and in waste ground  
(Bissell). Aug.—Sept. Adventive from the West.

### **Helianthus grosseserratus** Martens (coarsely toothed).

Rare. Fields and open places: Newington, apparently  
native at this station (Weatherby), Oxford, probably introduced  
(Harger). Aug.—Sept.

### **Helianthus giganteus** L. (gigantic).

*Helianthus giganteus* L., var. *ambiguus* Torr. & Gray.

Moist ground and banks of streams. Occasional or frequent  
near the coast eastward, becoming common in the south-

western part of the state; extending inland as far as Waterbury (H. J. Bassett) and Kent (Eames). Aug.—Sept.

**Helianthus Maximiliani** Schrad.

Rare. Waste ground: Naugatuck (A. E. Blewitt), New Milford (E. H. Austin), Bridgeport (Eames). Mid-July—Aug. Fugitive from the western United States.

**Helianthus divaricatus** L. (widely diverging).

Common. Dry fields, thickets and open woods. July—Sept.

**Helianthus strumosus** L. (bearing wens or swellings).

Frequent. Thickets and borders of woods. Aug.—Sept.

The var. *MOLLIS* Torr. & Gray (soft), var. *macrophyllus* Britton, is rare: Groton (Graves), Norwich (Mrs. E. E. Rogers), Willington (Graves & Bissell).

**Helianthus trachelifolius** Mill. (having leaves like *Trachelium*, the Throatwort).

Rare. There is a specimen of this in the Gray Herbarium collected at New Haven by Charles Wright. Not otherwise known from the state. Aug.—Sept.

**Helianthus decapetalus** L. (having ten petals).

Wild Sunflower.

Frequent. Moist or dry woods, thickets and fence-rows. Aug.—Sept.

**Helianthus tuberosus** L. (bearing tubers.)

Jerusalem Artichoke.

Occasional. Waste places and roadsides. Aug.—Oct. Naturalized from the West.

The tubers are edible and are used for pickles and salads; they also furnish a valuable food for stock. The plant was formerly cultivated by the Indians.

**COREOPSIS** L. Tickseed.

**Coreopsis tinctoria** Nutt. (used for dyeing).

Rare. Waste places: New London (Graves), Southington (Andrews), Bridgeport, Stratford and Norwalk (Eames). June—Sept. Adventive from the West.

**Coreopsis lanceolata** L. (lance-shaped).

Rare. Roadsides: Southington (Andrews & Bissell), Oxford (Harger). July. Adventive from the Southwest.

**BIDENS** L. Bur Marigold.**Bidens discoidea** (Torr. & Gray) Britton (having only disk flowers).

*Coreopsis discoidea* Torr. & Gray.

Swamps and about ponds. Occasional near the coast and throughout the valley of the Connecticut River. Aug.—Sept.

**Bidens frondosa** L. (leafy).

*Bidens melanocarpa* Wiegand.

Common Beggar-ticks. Stick-tight.

Common. Moist fields, swamps, waste places and cultivated ground. Aug.—Sept.

**Bidens vulgata** Greene (common).

*Bidens frondosa* Wiegand, not L.

Beggar-ticks. Stick-tight.

Frequent. Fields, roadsides and cultivated ground, in moist soil. Aug.—Sept.

**Bidens comosa** (Gray) Wiegand (bearing a tuft of hairs).

*Bidens connata* Muhl., var. *comosa* Gray.

Frequent. Moist soil in various situations. Aug.—Oct.

**Bidens connata** Muhl., var. *petiolata* (Nutt.) Farwell (having leaf-stalks).

*Bidens connata* of authors in part.

Swamp Beggar-ticks.

Frequent. Swamps and wet woods. Aug.—Sept.

A form with ray flowers occurs occasionally.

**Bidens cernua** L. (nodding).

*Bidens cernua* L., var. *elliptica* Wiegand.

Stick-tight.

Common. Wet meadows, along ditches and on shores. Sept.—Oct.

**Bidens laevis** (L.) BSP. (smooth).

*Bidens chrysanthemoides* Michx.

Bur Marigold.

Marshes and borders of ponds and streams. Frequent near the coast in southwestern Connecticut and inland as far as Ridgefield (Eames & C. C. Godfrey); occurs also along the Connecticut River throughout its course; not reported elsewhere. Aug.—Oct.

**Bidens bipinnata** L. (twice-pinnate).

Spanish Needles.

Rocky woods, roadsides and waste places in sandy soil. New London (Graves), Oxford (Harger), and occasional in the southwestern part of the state. Aug.—Oct.

The plant is medicinal.

**Bidens leucantha** Willd. (white-flowered).

Rare. Hartford, in waste ground (H. S. Clark). Sept. Fugitive from the South.

**Bidens trichosperma** (Michx.) Britton (with hairy seeds).

*Coreopsis trichosperma* Michx.

Tickseed Sunflower.

Rare. New Haven, Goffe St. (O. Harger). Aug.—Oct.

**Bidens aristosa** (Michx.) Britton (bearing bristles).

*Coreopsis aristosa* Michx.

Rare. Waste places: Norwich (Mrs. E. E. Rogers), Lebanon and Windham (Graves). Sept. Fugitive from the West.

**Bidens Beckii** Torr.

Water Marigold.

Rare. In ponds: Lyme (Graves), Guilford (G. H. Bartlett), Wallingford (Harger), North Haven (Eaton Herb.), Plainville (J. N. Bishop), East Granby (Harger), Danbury (Eames & C. C. Godfrey). Aug.—Sept.

**GALINSOGA** Ruiz & Pavon.

**Galinsoga parviflora** Cav. (small-flowered).

Galinsoga.

Local. Waste ground, mostly in cities. July — Sept. Adventive from tropical America.

The var. *HISPIDA* DC. (rough-hairy) is often more plentiful than the typical form.

**HELENIUM L.** Sneezeweed.**Helenium nudiflorum** Nutt. (naked-flowered).

Rare. Fields: Groton (Mrs. C. B. Graves), East Lyme (F. H. Dart), Bridgeport (Eames). June—Oct. Introduced from the South.

**Helenium autumnale** L. (autumnal).

Sneezeweed. Staggerwort.

Occasional or frequent. Swamps and on river banks. Aug.—Oct.

The herb is used as a substitute for Arnica and in powder as a snuff for catarrh. The flowers are poisonous and cattle and horses are sometimes killed by eating freely of them.

**Helenium tenuifolium** Nutt. (fine-leaved).

Rare. Bridgeport, in railroad wastes (Eames). Aug.—Sept. Adventive from the South.

**ACHILLEA L.** Yarrow.**Achillea Millefolium** L. (thousand-leaved).

Common Yarrow. Milfoil.

Common. Fields and waste ground. June—Nov.

A form with pink or reddish flowers is grown for ornament and sometimes escapes from gardens to roadsides. The plant is medicinal.

**Achillea lanulosa** Nutt. (woolly).

Yarrow.

Rare. Fields and waste ground: Southington (Andrews), and probably elsewhere, as it has not been distinguished from *Achillea Millefolium*. July—Aug. Introduced from the West.

**ANTHEMIS L.** Chamomile.**Anthemis Cotula** L. (like Cotula, the Buck's-horn).

May-weed. Dog Fennel. Fetid Chamomile.

Common. Roadsides and waste places. June—Nov. Naturalized from Europe.

The plant is medicinal.

**Anthemis arvensis** L. (of cultivated ground).

Corn Chamomile.



Rare. Roadsides and waste ground. May—June. Adventive from Europe.

The var. *AGRESTIS* (Wallr.) DC. (of fields) occurs rarely in waste ground.

Both the species and the variety are medicinal.

***Anthemis nobilis* L.** (well-known).

Garden Chamomile.

Rare. Wolcott, roadside near a deserted dwelling (Andrews & Bissell). Aug. Fugitive from Europe.

The plant is medicinal, the flower-heads officinal.

***Anthemis tinctoria* L.** (used for dyeing).

Golden Marguerite. Yellow Chamomile.

Rare. Roadsides and grassland as an escape from cultivation: Franklin (Mrs. E. E. Rogers), East Windsor (Bissell), Southington (Andrews), Oxford (Harger), Fairfield (Eames), Wilton (Miss A. E. Carpenter), Litchfield (Miss E. H. Thompson). June—Aug. Adventive from Europe.

Often cultivated for ornament.

**MATRICARIA L.** Wild Chamomile.

***Matricaria inodora* L.** (odorless).

Rare. Waste places and in grain fields: Naugatuck (B. B. Bristol), Bridgeport (Eames), Oxford and Southbury (Harger), Wilton (Miss A. E. Carpenter). June—Sept. Fugitive from Europe.

***Matricaria Chamomilla* L.** (classical name for this plant).

German Chamomile.

Rare. Naugatuck, waste ground (B. B. Bristol). July—Aug. Fugitive from Europe.

The dried flower-heads are officinal, and are much used in household practice, especially by German people.

***Matricaria suaveolens* (Pursh) Buchenau** (sweet-smelling).

*Matricaria matricarioides* Porter.

*Matricaria discoidea* DC.

Pineapple-weed.

Rare. Waste places: Naugatuck (B. B. Bristol), Bridgeport (Eames). July. Fugitive from the Pacific Coast.

### CHRYSANTHEMUM L.

**Chrysanthemum Leucanthemum** L. (white-flowered), var. *pinnatifidum* Lecoq & Lamotte (pinnately cleft).

*Chrysanthemum Leucanthemum* of Manuals.

Daisy. White or Ox-eye Daisy. White-weed. Marguerite.

Common. Fields, meadows and roadsides. May—July. Naturalized from Europe.

Often a troublesome weed in grassland. The plant is medicinal.

**Chrysanthemum Parthenium** (L.) Bernh. (ancient name of some plant).

Feverfew.

Rare. Waste ground as an escape from gardens. June—Aug. Introduced from Europe.

The herb is medicinal.

**Chrysanthemum Balsamita** L., var. *tanacetoides* Boiss. (like *Tanacetum*, the Tansy).

Costmary. Alecost. Mint Geranium.

Rare. Escaped from gardens to fields and roadsides: East Lyme (Graves), Groton (Graves & Bissell), Southington (Andrews & Bissell), Oxford (Harger), Trumbull (Eames), Wilton (Miss A. E. Carpenter). Sept.—Oct. Adventive from Asia.

Medicinal.

### TANACETUM L. Tansy.

**Tanacetum vulgare** L. (common).

Common Tansy.

Frequent. Roadsides and waste places. July—Oct. Naturalized from Europe.

The var. *CRISPUM* DC. (crisped) is occasional with the species.

The leaves and flowering tops are medicinal and were formerly officinal.

### ARTEMISIA L. Wormwood.

**Artemisia caudata** Michx. (tailed).

Dry sandy ground. Common along the coast, extending

inland as far as Wallingford and Haddam (Bissell), and Seymour (Harger). Aug.—Sept.

**Artemisia campestris** L. (of fields), var. **pubescens** (Jord. & Fourr.) Rouy & Foucaud (downy).

Rare. Naugatuck, in waste ground (A. E. Blewitt, Harger). Mid-Aug.—Sept. Fugitive from Europe.

**Artemisia Abrotanum** L. (classical name for this species).

Old Man. Southernwood.

Rare. Waste ground as an escape from gardens: Bridgeport and Fairfield (Eames). July—Oct. Fugitive from Europe.

Medicinal much like *Artemisia Absinthium*.

**Artemisia vulgaris** L. (common).

Common Mugwort. Felon-herb. Sailor's Tobacco.

Rare or occasional. Roadsides, waste ground and about old gardens: New London and Sprague (Graves), East Hartford (Weatherby), Southington (Andrews & Bissell), Lisbon, Oxford and Southbury (Harger), Fairfield County (Eames). July—Sept. Adventive from Europe.

The plant is medicinal.

**Artemisia Dracunculus** L. (classical name for this species).

Tarragon. Estragon.

Rare. Naugatuck, in waste ground (B. B. Bristol). July—Sept. Fugitive from Europe.

In Europe it is cultivated for its leaves which are used for seasoning.

**Artemisia Stelleriana** Bess.

Dusty Miller. Beach Wormwood. Old Woman.

Occasional on sea-shores in New London County (Graves). July—Aug. Naturalized from Asia.

Sometimes cultivated for ornament.

**Artemisia biennis** Willd. (biennial).

Rare. Waste ground: Bloomfield (Bissell), Naugatuck (B. B. Bristol), Stratford (Harger), New Milford (E. H. Austin). Sept. Adventive from the West.

**Artemisia annua** L. (annual).

Rare. Waste ground: East Lyme (Graves), Naugatuck

(B. B. Bristol), Bridgeport (Eames). Aug.—Sept. Fugitive from Asia.

**Artemisia Absinthium** L. (classical name for this plant).

Wormwood.

Rare. Roadsides and waste places as an escape from gardens: East Windsor (Bissell), Naugatuck (A. E. Blewitt), Oxford (Harger), Milford and Fairfield (Eames), Salisbury (Mrs. C. S. Phelps). Aug.—Sept. Adventive from Europe.

The leaves and tops were formerly much prized in domestic medicine and were until recently officinal.

**Artemisia pontica** L.

Roman Wormwood.

Rare. Roadsides as an escape from cultivation: Scotland (Graves), Southington (Weatherby & Bissell), Salisbury (Mrs. C. S. Phelps). July—Aug. Adventive from Europe.

In Europe this species is much used in the preparation of absinthe.

**Artemisia frigida** Willd. (cold).

Rare. Naugatuck, in waste ground (B. B. Bristol). Aug. Fugitive from the western United States.

**TUSSILAGO** L. Coltsfoot.

**Tussilago Farfara** L. (classical name for this species).

Coltsfoot. Coughwort.

Occasional or local. Wet places, roadsides and along streams, usually in heavy soils. March—May. Naturalized from Europe.

A popular remedy for coughs and colds and much used in domestic medical practice.

**PETASITES** Hill. Sweet Coltsfoot.

**Petasites palmatus** (Ait.) Gray (palmate).

Sweet Coltsfoot.

Rare. Salisbury, wet cold woods (Mrs. C. S. Phelps). April.

**Petasites vulgaris** Hill (common).

*Petasites Petasites* Karst.

Butterbur.

Rare. Hartford, escaped from a garden (Mrs. W. Seliger). April. Fugitive from Europe.

The plant is medicinal.

**ERECHTITES** Raf. Fireweed.

**Erechtites hieracifolia** (L.) Raf. (having leaves like *Hieracium*, the Hawkweed).

*Erechtites praealta* Raf.

Fireweed. Pilewort.

Common. Fields, roadsides and woodland clearings in either dry or moist ground; also on borders of salt marshes. July — Oct.

The plant is medicinal.

**CALENDULA** L. Marigold.

**Calendula officinalis** L. (of the shops).

Pot Marigold. *Calendula*. Mary-bud.

Rare. Waste ground as an escape from gardens: Southington (Andrews, Bissell), South Norwalk (Miss A. E. Carpenter). July — Aug. Fugitive from southern Europe.

This is the "Marygold" of Shakespeare. The dried flowers are medicinal, often used in the treatment of wounds.

**CACALIA** L. Indian Plantain.

**Cacalia suaveolens** L. (sweet-smelling).

*Synosma suaveolens* Raf.

Indian Plantain.

Dry or moist open woods or banks. Rare in most districts: East Haven (D. C. Eaton et al.), Derby (H. C. Beardslee). Local near the coast from Orange westward (Eames). July — Sept.

**SENECIO** L. Groundsel. Ragwort. Squaw-weed.

**Senecio vulgaris** L. (common).

Common Groundsel.

Rare. Waste and cultivated ground: New London (Graves), Hartford (H. S. Clark), Southington (Andrews), Bridgeport (Miss A. E. Carpenter). June — Nov. Adventive from Europe.

The plant is medicinal.

**Senecio viscosus** L. (sticky).

Rare. Waste ground: Stamford (Eames & W. H. Hoyt).  
July — Aug. Adventive from Europe.

**Senecio obovatus** Muhl. (inversely egg-shaped; the broad end up).

*Senecio aureus* L., var. *obovatus* Torr. & Gray.

Squaw-weed. Ragwort.

Dry soil, mostly in open woods. Occasional to frequent west of the Connecticut River, but not reported from the eastern part of the state. May — June.

**Senecio aureus** L. (golden).

Life-root. Golden Ragweed or Ragwort. Swamp Squaw-weed.

Frequent to common. Swamps or in wet ground. May — June.

The roots and tops of this and allied species are used medicinally.

**Senecio Balsamitae** Muhl., var. *praelongus* Greenman (very long).

*Senecio aureus* L., var. *Balsamitae* Gray's Manual ed. 6 in part.

Rare. Dry grassland and open woods: Oxford and Southbury (Harger), Woodbury (Eames & C. C. Godfrey). June.

No other specimens of this variety have been seen and none of the typical form. Probably most reports of the latter are based on forms of *Senecio obovatus*.

**ARCTIUM** L. Burdock.**Arctium Lappa** L. (a bur).

*Arctium Lappa* L., var. *majus* Gray.

Great Burdock.

Roadsides and waste ground. Rare or local in the southern part of the state, becoming occasional northward. July — Sept. Naturalized from Europe.

The roots of this and allied species are officinal and the seeds and leaves are also used medicinally. Both this and the following species are unsightly weeds.

**Arctium minus** (Hill) Bernh. (smaller).

*Arctium Lappa* L., var. *minus* Gray.

*Arctium Lappa* L., var. *tomentosum* Gray.

*Arctium tomentosum* of Britton's Manual in part.

Common Burdock.

Common. Roadsides and waste places. July — Oct.  
Naturalized from Europe. A form with woolly involucreal  
bracts sometimes occurs.

### CARDUUS L. Plumeless Thistle.

**Carduus acanthoides** L. (like *Acanthus*, the Bear's-breech).

Curled Thistle.

Rare. Waste ground: Salisbury (Mrs. C. S. Phelps).  
July — Aug. Fugitive from Europe.

### CIRSIUM Hill. Common or Plumed Thistle.

**Cirsium lanceolatum** (L.) Hill (lance-shaped).

*Carduus lanceolatus* L.

*Cnicus lanceolatus* Willd.

Common or Bull Thistle.

Frequent. Roadsides and pastures. July — Sept. Natural-  
ized from Europe.

**Cirsium spinosissimum** (Walt.) Scop. (very spiny).

*Carduus spinosissimus* Walt.

*Cnicus horridulus* Pursh.

Yellow Thistle.

Occasional in fields and borders of salt marshes along the  
coast. June — July.

Rarely occurs with purple flowers.

**Cirsium discolor** (Muhl.) Spreng. (of different colors).

*Carduus discolor* Nutt.

*Cnicus altissimus* Willd., var. *discolor* Gray.

Field Thistle.

Fields and thickets. Occasional in most sections, but fre-  
quent to common along the coast and throughout the Housa-  
tonic Valley. Aug. — Sept.

Flowers sometimes white.

**Cirsium altissimum** (L.) Spreng. (tallest).*Carduus altissimus* L.*Cnicus altissimus* Willd.

Tall Thistle.

Rare. Introduced with garden seed about a yard, a few plants only, Salisbury (Mrs. C. S. Phelps). Aug.—Sept. Fugitive from the West.

**Cirsium muticum** Michx. (pointless).*Carduus muticus* Pers.*Cnicus muticus* Pursh.

Swamp Thistle.

Frequent. Swamps and moist thickets. Aug.—Sept.

**Cirsium pumilum** (Nutt.) Spreng. (low).*Carduus odoratus* Porter.*Cnicus pumilus* Torr.

Pasture or Bull Thistle.

Common. Fields and pastures. July — Sept.

**Cirsium arvense** (L.) Scop. (of cultivated ground).*Carduus arvensis* Robson.*Cnicus arvensis* Hoffm.

Canada Thistle.

Frequent. Fields, meadows, pastures and waste ground. June — Aug. Naturalized from Europe.

The var. *VESTITUM* Wimm. & Grab. (clothed) and the var. *INTEGRIFOLIUM* Wimm. & Grab. (entire-leaved) occur in grassland in Salisbury (Mrs. C. S. Phelps & Bissell); the first named variety has also been found at Orange (Weatherby).

A pernicious weed extremely difficult to eradicate. The root is medicinal.

A statute of Connecticut enacted in 1881, provides that "Every owner or possessor of lands shall cut down all wild carrots and Canada thistles growing thereon, or in the highway adjoining, so often as to prevent them going to seed; and upon failure so to do, any person aggrieved, or any citizen of the town wherein the lands are situated, may complain to any grand juror of said town, who shall thereupon forthwith notify such owner or possessor of such complaint. If said



owner or possessor shall still neglect to comply with the provisions of this section, he shall be fined not more than five dollars, for each and every day of such neglect after such notice." Revised Statutes, sec. 1374.

**ONOPORDUM L.** Cotton or Scotch Thistle.

**Onopordum Acanthium L.**

Cotton Thistle.

Rare. Fields and roadsides: Ledyard, Groton and Waterford (Graves), New Haven (Harger). July — Sept. Adventive from Europe.

**CENTAUREA L.** Star Thistle.

**Centaurea Jacea L.**

Meadow Centaury.

Rare. Fields: Norwich (Mrs. E. E. Rogers), Guilford (G. H. Bartlett), Southington (Bissell), Bridgeport (Eames). June — Sept. Adventive from Europe.

**Centaurea Jacea L., var. lacera Koch (torn).**

Rare. In fields: Granby (Bissell), Naugatuck (A. E. Blewitt), Oxford (Harger), Bridgeport (Eames). June — Sept. Adventive from Europe.

**Centaurea Cyanus L.** (classical name for this species).

Corn-flower. Bluebottle. Bachelor's Button.

Rare. Waste ground and about gardens as an escape from cultivation: Ledyard and Lyme (Graves), East Windsor (Bissell), Southington (Andrews, Bissell), Seymour and Oxford (Harger), Fairfield County (Eames). June — Oct. Introduced from Europe.

Often cultivated for ornament. The plant is medicinal.

**Centaurea nigra L.** (black).

Spanish Buttons. Hardheads. Knapweed. Black Centaury.

Rare. Roadsides and waste ground: New London and Waterford (Graves), Waterbury (A. E. Blewitt), Bridgeport (Eames), Norwalk (G. P. Ells), Salisbury (Bissell). May — Aug. Introduced from Europe.

**Centaurea nigra L., var. radiata DC.** (bearing rays).

Rare. Waste ground: Waterbury (J. N. Bishop), Oxford

(Harger), Bridgeport (Eames). May — Aug. Introduced from Europe.

**Centaurea maculosa** Lam. (spotted).

Rare. Fields and waste ground: Griswold (E. F. Burleson), Granby (I. Holcomb), Litchfield (Miss E. H. Thompson), Salisbury (Mrs. C. S. Phelps). Aug. Adventive from Europe.

**Centaurea vochinensis** Bernh.

Rare. Fields and roadsides: Southington (Andrews & Bissell), Fairfield and Darien (G. P. Ells). June — Sept. Adventive from Europe.

**LAPSANA** L. Nipple-wort.

**Lapsana communis** L. (growing in colonies).

Nipple-wort.

Rare. Waste ground: New Haven (A. W. Evans). June — Sept. Adventive from Europe.

**CICHORIUM** L. Succory. Chicory.

**Cichorium Intybus** L. (classical name for this species).

*Cichorium Intybus* L., var. *divaricatum* of American authors, probably not DC.

Common Chicory. Blue Sailors.

Occasional or frequent. Fields and roadsides. June — Aug. Naturalized from Europe.

The root is medicinal; it is also used as an adulterant of and substitute for coffee. The flowers are sometimes rose-color or rarely pure white.

**KRIGIA** Schreb. Dwarf Dandelion.

**Krigia virginica** (L.) Willd.

*Adopogon carolinianum* Britton.

Dwarf Dandelion.

Frequent. Dry sandy or sterile ground. April — Sept.

**Krigia amplexicaulis** Nutt. (stem-clasping).

*Adopogon virginicum* Kuntze.

Cynthia.

Rare. Dry sandy soil: Litchfield (Miss E. H. Thompson),

Southbury (Mrs. H. G. Morse), Washington (C. C. Godfrey), Greenwich (W. P. Alcott). May — July.

**HYPOCHAERIS L.** Cat's-ear.

**Hypochaeris radicata L.** (having roots; referring to the long tap-roots).

Cat's-ear.

Rare. In grassland: Southington (Bissell), Bridgeport and Fairfield (Eames). July. Adventive from Europe.

Has proved to be a bad weed in some parts of New England.

**LEONTODON L.** Hawkbit.

**Leontodon autumnalis L.** (autumnal).

Fall Dandelion. Arnica.

Moist grassland. Guilford (G. H. Bartlett); and frequent or common in the town of Thompson (Weatherby & Bissell), also in Hartford County and some adjacent towns. May — Nov. Naturalized from Europe.

**Leontodon autumnalis L., var. pratensis Koch** (of meadows).

Fall Dandelion.

Moist grassland. Norwich (Mrs. E. E. Rogers), Litchfield (Miss E. H. Thompson); and occasional in Hartford County. May — Nov. Naturalized from Europe.

**Leontodon hastilis L.** (like a spear-shaft).

Rare. Southington, in fields (Bissell). May — June. Fugitive from Europe.

**Leontodon nudicaulis (L.) Banks** (naked-stemmed).

*Leontodon hirtus L.*

Local. In grassland: Waterford, plentiful at one station (Graves), East Lyme (Miss A. M. Ryon). July — Aug. Naturalized from Europe.

**PICRIS L.**

**Picris hieracioides L.** (like Hieracium, the Hawkweed).

Rare or local. Fields and waste places: Old Lyme (E. F. Williams), Guilford (G. H. Bartlett), Westport, plentiful in one locality, and Bridgeport (Eames), Salisbury

(Mrs. C. S. Phelps & Bissell). June—July. Adventive from Europe.

**Picris echioides** L. (like *Echium*, the Viper's Bugloss).

Ox-tongue.

Rare. Southington, in cultivated ground (Andrews), Fairfield, in grassland (Eames). July—Sept. Fugitive from Europe.

**TRAGOPOGON** L. Goat's Beard.

**Tragopogon porrifolius** L. (having leaves like *Allium Porrum*, the Leek).

Oyster-plant. Salsify.

Rare. Fields and roadsides: Tolland (Weatherby & Bissell), Southington (Andrews, Bissell), Ridgefield (W. H. Hoyt). May—June. Adventive from Europe.

**Tragopogon pratensis** L. (of meadows).

Goat's Beard.

Fields and roadsides. Norwich (Mrs. E. E. Rogers), Orange (Harger), and occasional in the western part of the state. June—Sept. Naturalized from Europe.

The root is medicinal.

**TARAXACUM** Ludwig. Dandelion.

**Taraxacum officinale** Weber (of the shops).

*Taraxacum Taraxacum* Karst.

Common Dandelion.

Common. Fields, lawns and waste ground. April—Nov., but especially in May. Naturalized from Europe.

The root is medicinal and is officinal; it is also used as a substitute for coffee. The plant is much used as a pot-herb.

**Taraxacum officinale** Weber, var. **palustre** (Sm.) Blytt (of marshes).

Frequent. Moist fields and waste places. April—Nov. Naturalized from Europe.

Uses and properties as in the typical form of the species.

**Taraxacum erythrospermum** Andrz. (red-seeded).

Red-seeded Dandelion.

Local. Usually in dry but sometimes in moist fields or

open woods. May — Nov., especially in May. Naturalized from Europe.

Uses and properties as in *Taraxacum officinale*.

### SONCHUS L. Sow Thistle.

**Sonchus arvensis** L. (of cultivated ground).

Field Sow Thistle.

Rare. Roadsides and waste places: Norwich (W. A. Setchell), New London and Montville (Graves), Preston (Mrs. E. E. Rogers), East Hartford (Weatherby), Bridgeport (Eames). Late June — Sept. Naturalized from Europe.

**Sonchus oleraceus** L. (suitable for a pot-herb).

Common Sow Thistle.

Occasional. Waste and cultivated grounds. July — Oct. Naturalized from Europe.

Medicinal.

**Sonchus asper** (L.) Hill (rough).

Spiny-leaved Sow Thistle.

Rare to occasional. Waste ground and on shores. July — Aug. Naturalized from Europe.

### LACTUCA L. Lettuce.

**Lactuca scariola** L.

Prickly Lettuce.

Rare. Waste ground: New London (Graves), Naugatuck (B. B. Bristol), Norwalk (Eames). July — Aug. Adventive from Europe.

The herb is medicinal.

**Lactuca scariola** L., var. **integrata** Gren. & Godr. (entire).

*Lactuca virosa* of American authors, not L.

Prickly Lettuce.

Occasional. Waste ground, mostly near railroads or in populous districts. Aug.—Sept. Naturalized from Europe. The herb is medicinal.

**Lactuca canadensis** L.

Wild Lettuce. Horse-weed.

Common. Fields and roadsides. June — Aug.

The var. MONTANA Britton (of mountains), var. *integrifolia*

*folia* of some authors, not *Lactuca integrifolia* Bigel., is rare or occasional with the typical form.

The plant is medicinal.

**Lactuca integrifolia** Bigel. (entire-leaved).

*Lactuca sagittifolia* of Britton's Manual in part.

Rare. Roadsides and fields: Union (Bissell), Hartford (A. W. Driggs), Seymour (Eames & C. K. Averill). Probably occurring at other localities, its distribution unknown. July — Sept.

**Lactuca hirsuta** Muhl. (hairy).

Rare. Dry woods or fields: Groton, Montville and Waterford (Graves), Norwich (Mrs. E. E. Rogers), Ellington, Bristol and Wolcott (Bissell), Southington (Andrews, Bissell), Meriden (Andrews), Oxford and Southbury (Harger), Stratford and Fairfield (Eames). July — Aug.

**Lactuca spicata** (Lam.) Hitchc. (having spikes).

*Lactuca leucophaea* Gray.

Wild Blue Lettuce.

Frequent. Roadsides, thickets and woodlands. Aug.—Sept.

**Lactuca sativa** L. (sown; planted).

Lettuce.

Rare. Waste ground as an escape from cultivation: Bridgeport (Eames). June — Aug. Fugitive from Europe. Well known as a salad plant.

**CREPIS** L. Hawk's Beard.

**Crepis capillaris** (L.) Wallr. (hair-like).

*Crepis virens* L.

*Crepis virens* L., var. *dentata* Bisch.

Rare. In grassland: Groton (Graves), North Stonington and Norwich (Mrs. E. E. Rogers), Plainfield (J. L. Sheldon), East Hartford (C. C. Hanmer), East Windsor (Bissell), Oxford (Harger), Norwalk (G. P. Ells), Greenwich (W. E. Wheelock). Aug.—Sept. Adventive from Europe.

**Crepis tectorum** L. (of dwellings).

Rare. North Stonington (Mrs. E. E. Rogers). Sept. Adventive from Europe.

**Crepis taraxacifolia** Thuill. (having leaves like *Taraxacum*, the Dandelion).

Rare. Southington, in grassland (Bissell). May—June.  
Fugitive from Europe.

**Crepis setosa** Haller f. (bristly).

Rare. Fairfield, in grassland, probably introduced with grass seed (Eames). Sept.—Oct. Adventive from Europe.

**Crepis rigida** W. & K. (stiff).

Rare. Southington, in fields (Bissell). June—July.  
Fugitive from Europe.

**PRENANTHES** L. Rattlesnake-root.

**Prenanthes alba** L. (white).

*Nabalus albus* Hook.

White Lettuce. Rattlesnake-root.

Rare, local or frequent. Open woods, copses and fence-rows. Aug.—Oct.

The plant and roots are medicinal.

**Prenanthes serpentaria** Pursh (classical name).

*Nabalus serpentarius* Hook.

Lion's-foot. Gall-of-the-earth.

Woods and thickets. Voluntown, Waterford and Windham (Graves), Groton and Oxford (Harger), Southington (Bissell), and occasional toward the south and southwest. Aug.—Oct.

The root and leaves are medicinal.

**Prenanthes trifoliolata** (Cass.) Fernald (with three leaflets).

*Nabalus trifoliolatus* Cass.

*Prenanthes serpentaria* Gray's Manual ed. 6 in part, not Pursh.  
Gall-of-the-earth.

Frequent. Woods and thickets. Aug.—Oct.

Extremely variable in leaf form.

**Prenanthes altissima** L. (very tall).

*Nabalus altissimus* Hook.

Gall-of-the-earth.

Occasional or frequent. Rich woods. Aug.—Oct.

The var. *HISPIDULA* Fernald (minutely hispid) occurs at Stafford (Graves & Bissell), and Oxford (Harger).

The plant is medicinal. All species of *Prenanthes* have been used as a remedy for the bites of venomous snakes.

### HIERACIUM L. Hawkweed.

#### **Hieracium pilosella** L. (somewhat hairy).

Mouse-ear.

Rare. Dry grassland: Southington (Andrews), Wilton (Miss A. E. Carpenter). May—July. Adventive from Europe.

#### **Hieracium aurantiacum** L. (orange-colored).

Orange Hawkweed. Devil's Paint-brush. Grim the Collier.

Rare, occasional or local. Dry to wet woods, fields and roadsides. June. Naturalized from Europe.

A bad weed in some parts of northern New England.

#### **Hieracium floribundum** Wimm. & Grab. (many-flowered).

Rare. Fields and waste ground: Guilford (G. H. Bartlett), Wallingford (A. W. Evans & Harger), East Haven (Andrews), Cheshire (Bissell), Southington (M. W. Frisbie). May—June. Adventive from Europe.

#### **Hieracium pratense** Tausch (of meadows).

King Devil.

Rare. Fields: Norwich (Mrs. E. E. Rogers), Bristol (H. S. Clark & J. N. Bishop), Waterbury (A. E. Blewitt), Stamford (W. H. Hoyt). June. Adventive from Europe.

#### **Hieracium venosum** L. (veiny).

Rattlesnake-weed. Poor Robin's Plantain.

Frequent. Dry woods and fields. June—July.

The var. *SUBCAULESCENS* Torr. & Gray (having a short stem) is occasional with the species.

The leaves and tops are medicinal.

#### **Hieracium paniculatum** L. (having an open, branched flower-cluster).

Frequent. Dry woods. July—Sept.

#### **Hieracium marianum** Willd.

Rare. Dry woods: Norwich (Mrs. E. E. Rogers), Franklin (R. W. Woodward), Glastonbury (A. W. Driggs),



Orange and Oxford (Harger), Huntington and Woodbury (Eames), Salisbury (Bissell). July.

**Hieracium scabrum** Michx. (rough).

Frequent. Woods and thickets, mostly in dry soil. July  
— Sept.

**Hieracium Gronovii** L.

Hairy Hawkweed.

Dry fields or open woods, in sandy or sterile soil. Frequent in most districts but not reported from Litchfield County. Aug.— Oct.

**Hieracium canadense** Michx.

Canada Hawkweed.

Occasional. Fields and thickets in either moist or dry soil. Aug.— Sept.

## Appendix.

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### ADDITIONS AND CORRECTIONS.

Page 19, under *Woodwardia virginica*, add: Stafford (Weatherby).

Page 22, under *Aspidium marginale*, add: The var. ELEGANS J. Robinson (elegant) has been found in rich woods at New Fairfield (Eames & C. C. Godfrey). Forms approaching this variety are not rare.

Page 33, after *Isoetes Dodgei*, insert:  
**Isoetes Dodgei** A. A. Eaton, var. **Robbinsii** A. A. Eaton.

Rare. North Stonington, shallow water of Lantern Hill Pond (Graves & Bissell). July — Sept.

Page 35, under *Pinus sylvestris*, add: Wethersfield (H. S. Clark & Bissell).

Page 39, under *Sparganium eurycarpum*, after "A. W. Driggs" change text to read: East Windsor, Windsor and Sharon, at Indian Pond (Bissell). Occasional along the Housatonic River from Oxford (Harger) northward, and near the coast in New Haven and Fairfield Counties.

Page 43, under *Potamogeton bupleuroides*, add: Kent (Eames).

Page 49, under *Sorghum halepense*, add: New Haven (Bissell).

Page 51, under *Panicum philadelphicum*, add: Sharon, at Mudge Pond (Weatherby).

Page 52, under *Panicum Werneri*, add: Southbury (Weatherby), New Milford (Bissell).

Page 54, under *Panicum subvillosum*, add: Orange (Bissell).

Pages 54-55, under *Panicum villosissimum*, omit "Southbury (Harger)," and add: Kent (Bissell).

Page 66, under *Trisetum spicatum*, add: East Granby, on trap ledges (Harger).

Page 69, under *Spartina patens*, var. *caespitosa*, add: Bridgeport (Eames).

Page 72, under *Briza media*, add: Southbury, along roadside (Harger).

Page 72, under *Cynosurus cristatus*, add: Oxford, in a lawn (Harger).

Page 77, under *Bromus commutatus*, add: Middletown, at several widely separated localities (Bissell). Omit "Fugitive" and substitute: Adventive.

Page 77, after *Bromus tectorum*, insert:

**Bromus sterilis** L. (sterile).

Local. Middletown, well established on sandy railroad embankments (Bissell). June. Adventive from Europe.

Pages 77-78, under *Bromus altissimus*, add: Franklin (R. W. Woodward).

Page 78, after *Bromus altissimus*, insert:

**Bromus incanus** (Shear) Hitchc. (hoary).

Rare. Putnam, thicket near river bank (Weatherby & Bissell). July — Aug.

Page 81, after *Elymus canadensis*, insert:

**Elymus brachystachys** Scribn. & Ball (short-spiked).

Rare. Naugatuck, in dry ground, introduced with mill waste (A. E. Blewitt). Fugitive from the southwestern United States.

Page 84, under *Eleocharis diandra*, add: Hartford (Bissell).

Page 84, under *Eleocharis ovata*, add: Hartford (Weatherby & Bissell).

Page 85, under *Eleocharis intermedia*, add: Sharon, at Indian Pond (R. W. Woodward).

Page 87, under *Scirpus rubrotinctus*, add: New Milford (Harger).

Page 87, under *Scirpus atrovirens*, add: Franklin (R. W. Woodward), New Britain and Canaan (Bissell).

Page 88, under *Scirpus cyperinus*, var. *peltus*, add: Colebrook and Salisbury (M. L. Fernald).

Page 90, under *Rynchospora alba*, add: the var. **MACRA** Clarke (large) occurs at Southington (Bissell).

Page 92, under *Carex tribuloides*, var. *reducta*, change statement of range to read: Rare or occasional in the northern half of the state.

Page 93, under *Carex straminea*, change statement of range to read: Occasional or local in the northern half of the state.

Page 94, under *Carex foenea*, var. *perplexa*, add: Thomaston (A. E. Blewitt).

Page 96, after *Carex trisperma*, insert:

**Carex trisperma** Dewey, var. **Billingsii** Knight.

Local. Bethany, plentiful in a swamp (B. B. Bristol & A. E. Blewitt). June—July.

Page 98, under *Carex aurea*, add: Sherman (A. E. Blewitt & Harger).

Page 99, under *Carex Davisii*, add: East Granby (Harger).

Page 100, under *Carex aestivalis*, add: Colebrook (M. L. Fernald).

Page 100, after *Carex umbellata*, insert:

**Carex umbellata** Schk., var. **brevirostris** Boott (short-beaked).

Rare. Cheshire, dry rocky hills (A. E. Blewitt). June. Very large plants growing in large tufts.

Page 101, under *Carex polymorpha*, add: Waterbury (A. E. Blewitt).

Page 104, under *Carex flava*, add: Waterbury (A. E. Blewitt).

Page 105, under *Carex castanea*, add: Canaan, moist sandy thicket (Mrs. C. S. Phelps & A. E. Blewitt).

Page 106, under *Carex trichocarpa*, add: New Milford, plentiful in meadows along the Housatonic River.

Page 107, under *Carex retrorsa*, add: Sherman (A. E. Blewitt & Harger).

Page 108, under *Carex intumescens*, var. *Fernaldii*, add: Colebrook, many plants in rich woods (M. L. Fernald).

Page 112, under *Wolffia columbiana*, add: Orange (Harger).

Page 112, before *Xyris caroliniana*, insert:

**Xyris montana** Ries (of mountains).

Rare. Woodbury, in sphagnum bog (Harger). July—Aug.

Pages 114-115, under *Juncus tenuis*, var. *anthelatus*, add: East Haven (Bissell).

Page 115, under *Juncus Dudleyi*, change statement of habitat and range to read: Sandy or sterile ground, in either moist or dry places. East Granby (Harger), South Windsor (Bissell), Meriden (Andrews), and occasional in the north-western part of the state.

Pages 115-116, under *Juncus brachycephalus*, add: Kent (Eames), New Milford (Bissell).

Page 123, under *Smilacina trifolia*, add: Stafford (Weatherby).

Page 131, under *Habenaria orbiculata*, add: Ledyard (B. T. Avery, Jr.).

Page 133, under *Pogonia affinis*, add: Ledyard (B. T. Avery, Jr.).

Page 134, under *Spiranthes cernua*, var. *ochroleuca*, add: Occasional in the southern part of the state.

Page 136, under *Microstylis monophyllos*, add: Colebrook (Bissell).

Pages 139-140, under *Salix discolor*, var. *ericocephala*, add: Durham (J. Barratt).

Pages 139-140, under *Salix discolor*, var. *prinoides*, add: Durham (J. Barratt).

Page 140, after *Salix sericea*, insert:

**Salix subsericea** (Anders.) Schneider (somewhat silky).

Rare or local. Colebrook, wet ground along roadsides and borders of woods (M. L. Fernald & Bissell). April—mid-May; fruit May—June.

Page 143, under *Myrica Gale*, omit “not reported from the vicinity of the coast.”

Page 146, after *Corylus rostrata*, insert:

**Corylus heterophylla** Fisch. (various-leaved).

Rare. Wethersfield, sparingly escaped about an old nursery (H. S. Clark & Bissell). April; fruit Sept. Fugitive from Europe.

Page 154, under *Maclura pomifera*, add: Wethersfield (Bissell).

Page 158, under *Rumex elongatus*, add: New Britain (Bissell).

Pages 160-161, under *Polygonum lapathifolium*, add: The var. **NODOSUM** (Pers.) Weinmann (knotty) occurs at Lyme (Graves & Bissell).

Page 164, under *Polygonum cuspidatum*, add: Southington (Andrews).

Page 165, under *Cycloloma atriplicifolium*, add: Danbury (Eames & C. C. Godfrey).

Page 165, under *Kochia Scoparia*, add: New London (Graves), Derby, along a roadside (Harger).

Page 167, under *Beta vulgaris*, add: Sometimes found about dumping grounds.

Page 169, under *Salsola Kali*, add: The var. CAROLINIANA (Walt.) Nutt. occurs with the typical form.

Page 173, after *Spergularia marina*, insert:

**Spergularia canadensis** (Pers.) Don.

*Buda borealis* Wats.

*Tissa canadensis* Britton.

Rare. Groton, border of salt marsh at Esker Point (Graves & Bissell). June — Aug.

Page 179, under *Silene noctiflora*, add: Winchester (M. L. Fernald & Weatherby).

Page 186, under *Ranunculus sceleratus*, add: Wethersfield (Dr. E. J. Thompson), Newington (Bissell).

Page 186, under *Ranunculus allegheniensis*, add: Redding (Eames & C. C. Godfrey).

Page 191, after *Nigella sativa*, insert:

**Nigella damascena** L.

Love-in-a-Mist.

Rare. Newtown, about a garden (Eames & C. C. Godfrey). June. Fugitive from Eurasia.

Sometimes cultivated for ornament.

Page 194, under *Podophyllum peltatum*, add: Perhaps native at Southington (Bissell).

Page 196, under *Eschscholtzia californica*, add: Roadside, Salisbury (R. W. Woodward & Weatherby).

Page 200, under *Alyssum alyssoides*, add: Griswold (E. F. Burleson).

Page 201, after *Lepidium campestre*, insert:

**Lepidium Draba** L. (like *Draba*, the Whitlow Grass).

Hoary Cress.

Rare. Guilford, a few plants in a field (G. H. Bartlett).  
May—June. Fugitive from Europe.

Page 202, under *Brassica alba*, add: Hartford (Bissell).

Page 242, under *Rosa setigera*, add: Middlefield (Bissell).

Page 242, under *Rosa spinosissima*, add: Cornwall  
(Miss M. J. Whitney).

Page 292, under *Epilobium adenocaulon*, add: Monroe  
(Harger).

Page 347, after *Lycium halimifolium*, insert:

**HYOSCYAMUS** L. Henbane.

***Hyoscyamus niger*** L. (black).

Black Henbane.

Rare. Middletown, in waste ground (J. Barratt). June—  
July. Fugitive from Europe.

The plant is medicinal, the leaves of the second year's  
growth officinal.

Page 396, after *Bidens comosa*, insert:

***Bidens connata*** Muhl. (united).

Rare. Swamps and borders of streams: Lyme (Graves  
& Bissell), Huntington and Milford (Harger). Aug.—Sept.

#### NATIVE PLANTS NOT FOUND IN RECENT YEARS.

The species named below were found growing in Connecticut  
by former collectors whose specimens have been preserved, but  
none of them have been seen within the last twenty years, and  
most of them have not been found for a much longer period.  
They are listed here to call special attention to them that it may  
be ascertained whether they can at present be found growing in  
the state or not.

*Lycopodium* Selago L.

*Isoetes foveolata* A. A. Eaton.

*Sparganium angustifolium* Michx.



*Sparganium fluctuans* (Morong) Robinson.  
*Potamogeton lateralis* Morong.  
*Elymus australis* Scribn. & Ball.  
*Carex livida* (Wahlenb.) Willd.  
*Melanthium latifolium* Desr.  
*Euphorbia Ipecacuanhae* L.  
*Acerates viridiflora* Ell., var. *lanceolata* (Ives) Gray.  
*Trichostema lineare* Walt.  
*Helianthus tracheliiifolius* Mill.  
*Bidens trichosperma* (Michx.) Britton.

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#### EXCLUDED SPECIES.

The following species and varieties, reported from Connecticut in earlier lists, have been omitted from the present Catalogue, either because of known errors, or because no authentic specimens of them have been found.

The names are those of the older lists; in all cases, however, in which they differ from those in the seventh edition of Gray's Manual, the latter are also given, after the original names.

Abbreviations indicate the list or lists in which each species appears. These abbreviations and the lists they represent, are as follows:

- Berz.** A Catalogue of the Flowering Plants and Higher Cryptogams growing without cultivation within thirty miles of Yale College. Published by the Berzelius Society. New Haven, 1878.
- B1.** Bishop, James N. A Catalogue of all Phaenogamous Plants at present known to grow in the State of Connecticut. Rep. Sec. Conn. Board Agric. 1884-5. Hartford, 1885.
- B2.** Same, 2d edition. Vascular Cryptogams added. Rep. Sec. Conn. Board Agric. 1895. Hartford, 1896.
- Ba.** Same, Additions and Corrections. Rep. Sec. Conn. Board Agric. 1897. Hartford, 1898.
- B3.** Same, 3d edition. Rep. Sec. Conn. Board Agric. 1900. Hartford, 1901.

- Biss.** Bissell, C. H. Fern Flora of Connecticut. Fern Bulletin, vol. xiv, 1906.
- B. & A.** Bissell, C. H., and Andrews, Luman. Flora of the Town of Southington and Vicinity. Conn. School Document No. 222. [Hartford] 1902.
- Br.** Brace, John P. List of Plants growing spontaneously in Litchfield and in its Vicinity. American Jour. of Science, vol. iv, 1822.
- C. & S.** Case, George R., and Setchell, William A. A Catalogue of Wild Plants growing in Norwich and Vicinity, arranged in the order of flowering for the year 1882. Norwich, 1883.
- D.** Driggs, A. W. Notes on the Flora of Connecticut. Conn. School Document No. 198. [Hartford] 1901.
- Leon.** Leonard, Emily J. Catalogue of the Phaenogamous and Vascular Cryptogamous Plants found growing in Meriden, Conn. Trans. Meriden Sci. Ass., 1, 1884. Meriden, 1885.
- R.** Rogers, Mrs. Elisha E. Flora of Norwich. Conn. School Document No. 213. [Hartford] 1902.

*Cryptogramma acrostichoides* R. Br. **Biss.**

An error in transcribing. Should have read *Cryptogramma Stelleri*.

*Asplenium viride* Huds. **B2.**

Noted as doubtful by Bishop.

*Dryopteris aculeata* Braunii (Spenner) Underw. *Polystichum Braunii* (Spenner) Fée **B2.**

*Botrychium Lunaria* Sw. **B2, B3, R.**

Probably *Botrychium simplex*.

*Isoetes lacustris* L. **B2, B3.**

An error in determination. Plant was *Isoetes Tuckermani*.

*Pinus inops* Ait. *Pinus virginiana* Mill. **Ba.**

An error in determination. Tree was *Pinus sylvestris*.

*Juniperus Sabina* L., var. *procumbens* Pursh. *Juniperus horizontalis* Moench. **B2, B3.**

An error in determination. Plant was *Juniperus communis*, var. *depressa*.

*Potamogeton crispus* L. **B2, B3.**

*Triglochin palustris* L. **Berz., B1, B2, B3.**

*Paspalum laeve* Michx. **Berz., B1, B2, B3, R.**

*Avena fatua* L. **B2, B3.**

*Danthonia sericea* Nutt. **Leon.**

*Poa flexuosa* Muhl. *Poa autumnalis* Muhl. **B1, B2, B3.**

*Festuca ovina* L., var. *duriuscula* Hack. **Ba, B3.**

An error in determination. Plant was *Festuca rubra*.

*Cyperus Houghtonii* Torr. **B3.**

An error in determination. Plant was *Cyperus filiculmis*.

*Scirpus supinus* L., var. *Hallii* Gray. *Scirpus Hallii* Gray.  
**B2.**

*Rynchospora capillacea* Torr. **B2, B3.**

*Carex adusta* Boott. **Berz., B1.**

*Carex exilis* Dewey. **C. & S., B3, R.**

Perhaps correct, but no specimen has been seen by the committee.

*Carex Goodenowii* J. Gay. **B3.**

*Lemna perpusilla* Torr. **Ba.**

*Juncus scirpoides* Lam. **B1, B2, B3.**

*Helonias bullata* L. **Leon.**

*Allium sativum* L. **B1, B2, B3.**

*Lilium Catesbaei* Walt. **Leon.**

*Cypripedium arietinum* R. Br. **Berz., B1, B2, B3.**

Perhaps correct, but no specimen has been seen.

*Cypripedium candidum* Willd. **B3, D.**

*Habenaria rotundifolia* Richards. *Orchis rotundifolia* Banks.  
**B1, B2, B3.**

Probably actually collected by Dr. J. W. Robbins, but no specimen has been seen.

*Habenaria peramoena* Gray. **Leon.**

*Salix petiolaris* Sm. B<sub>3</sub>.

An error in determination.

*Alnus viridis* DC. B<sub>3</sub>.

*Rumex sanguineus* L. B<sub>2</sub>, B<sub>3</sub>.

*Rumex maritimus* L. *Rumex persicarioides* L. B<sub>1</sub>, B<sub>2</sub>.

*Polygonum maritimum* L. B<sub>2</sub>.

*Chenopodium Bonus-Henricus* L. B<sub>2</sub>, B<sub>3</sub>.

An error in determination. Plant was *Atriplex patula*,  
var. *hastata*.

*Stellaria pubera* Michx. Leon.

*Cerastium viscosum* L. Berz., C. & S., B<sub>1</sub>, B<sub>2</sub>, B<sub>3</sub>, R.

*Holosteum umbellatum* L. Leon.

*Silene nivea* Otth. B<sub>2</sub>, B<sub>3</sub>.

*Talinum teretifolium* Pursh. Berz., B<sub>1</sub>, B<sub>2</sub>, B<sub>3</sub>.

Specimen extant, but not certainly from Connecticut.

*Ranunculus Flammula* L. Br.

*Thalictrum clavatum* DC. Leon.

*Berberis canadensis* Pursh. B<sub>2</sub>.

An error in determination. Plant was *Berberis vul-*  
*garis*.

*Crataegus tomentosa* L. Berz., Leon., B<sub>1</sub>, B<sub>3</sub>.

*Geum macrophyllum* Willd. B<sub>2</sub>, B<sub>3</sub>.

Probably *Geum strictum*.

*Rubus invisus* Bailey. B. & A.

An error in determination. Plant was a form of *Rubus*  
*villosus*.

*Baptisia australis* R. Br. Leon.

*Trifolium medium* L. Leon.

*Desmodium strictum* DC. B<sub>3</sub>.

*Clitoria mariana* L. Leon.

*Euphorbia glyptosperma* Engelm. Ba, B<sub>3</sub>.

*Euphorbia dentata* Michx. Br., Leon.

- Vitis indivisa* Willd. *Cissus Ampelopsis* Pers. **Leon.**
- Vitis bipinnata* Torr. & Gray. *Cissus arborea* (L.) Des Moulins. **Leon.**
- Vitis cordifolia* Michx. **Berz., Leon., B1, B2, B3, R.**  
An error in determination. Plant was *Vitis vulpina*.
- Helianthemum corymbosum* Michx. **Leon.**
- Viola striata* Ait. **B1, B2, B3.**  
Specimens extant, but not certainly from Connecticut.
- Viola canina* L. **Leon.**  
Probably carelessly written for *Viola canina*, var. *sylvestris* of Gray's Manual ed. 5 (= *Viola conspersa*).
- Opuntia Rafinesquii* Engelm. **Berz., B1, B2, B3.**
- Epilobium Hornemanni* Reichenb. **B2.**  
An error in determination. Plant was probably *Epilobium adenocaulon*.
- Hippuris vulgaris* L. **Berz., B1, B2, B3.**
- Bupleurum rotundifolium* L. **Berz., B1, B2, B3.**  
Probably correct, but no specimen has been seen.
- Thaspium aureum* Nutt. **Br.** (as *Smyrneum*), **C & S., Leon., B1, B2.**  
Probably *Zizia aurea*.
- Thaspium trifoliatum* Gray. **Berz., B1, B2.**  
Probably *Zizia aurea*.
- Thaspium barbinode* Nutt. **C. & S.**  
An error in determination.
- Azalea arborescens* Pursh. *Rhododendron arborescens* (Pursh) Torr. **Leon.**
- Vaccinium arboreum* Marsh. **C. & S.**  
An error in determination.
- Vaccinium corymbosum* Ait., var. *pallidum* Gray. **Leon.**
- Samolus Valerandi* L. **B2, B3, R.**  
Probably *Samolus floribundus*.
- Gentiana Amarella* L. **B2, B3.**  
Probably *Gentiana quinquefolia*.

*Gentiana Saponaria* L. Br., B2.

Probably *Gentiana Andrewsii*.

*Apocynum cannabinum* L., var. *hypericifolium* Gray. Ba.

*Periploca graeca* L. Leon.

Perhaps correct, but no specimen has been seen.

*Asclepiodora viridis* Gray. B2.

Probably meant for *Acerates viridiflora*.

*Asclepias paupercula* Michx. *Asclepias lanceolata* Walt.  
Leon.

*Asclepias ovalifolia* Decsne. Leon.

*Asclepias parviflora* Pursh. *Asclepias perennis* Walt. Leon.

*Cuscuta tenuiflora* Engelm. *Cuscuta Cephalanthi* Engelm.  
Leon.

*Ajuga reptans* L. Berz., B1, B2, B3, B. & A.

An error in determination. The plant was *Ajuga gen-  
ensis*.

*Isanthus caeruleus* Michx. *Isanthus brachiatus* (L.) BSP.  
Br., B2, B3.

*Scutellaria saxatilis* Riddell. Leon.

*Lamium album* L. Berz., B1, B2, B3, B. & A.

Probably wrong determination. In two cases the plant  
is known to have been a white-flowered form of *Lamium  
maculatum*.

*Stachys palustris* L., var. *cordata* Gray. *Stachys cordata* Rid-  
dell. Berz., B1, B2, B3.

Probably a form of *Stachys tenuifolia*, var. *aspera*.

*Monarda punctata* L. Leon.

*Satureja hortensis* L. Berz., B1, B2, B3.

*Pycnanthemum aristatum* Michx. Br.

*Mentha rotundifolia* L. B1, B2, B3.

*Physalis pubescens* L. Leon., B1, B2.

*Linaria genistifolia* Mill. C. & S.

*Antirrhinum majus* L. B3.

*Mimulus Jamesii* Torr. *Mimulus glabratus* HBK., var. *Jamesii* (Torr. & Gray) Gray. **Ba.**

An error in determination. Probably *Minulus Langsdorffii*.

*Micranthemum Nuttallii* Gray. *Micranthemum micranthemoides* (Nutt.) Wettst. **B1, B2, B3.**

*Veronica Anagallis* L. *Veronica Anagallis-aquatica* L. **B2.**  
Probably *Veronica americana*.

*Veronica Beccabunga* L. **Br.**

*Veronica agrestis* L. **C. & S.**

*Gerardia linifolia* Nutt. **Leon.**

*Utricularia striata* LeConte. *Utricularia fibrosa* Walt. **Br.**

*Lonicera Caprifolium* L. **Leon., B1, B2, B3.**

*Valeriana edulis* Nutt. **B1, B2, B3.**

*Campanula americana* L. **C. & S., Leon.**

C. & S. report later corrected by them.

*Liatris squarrosa* Willd. **B2, B3.**

An error in determination. Plant was *Liatris scariosa*.

*Liatris cylindracea* Michx. **B2, B3.**

*Chrysopsis mariana* Nutt. **B3.**

Specimens extant, but not certainly from Connecticut.

*Solidago stricta* Ait. **Leon.**

*Aster concolor* L. **B1, B2, B3.**

*Aster sagittifolius* L. **B2, B3.**

*Aster salicifolius* Willd. **B2, B3.**

An error in determination.

*Diplopappus amygdalinus* Torr. & Gray. *Aster umbellatus* Mill., var. *latifolius* Gray. **Leon.**

*Helianthus angustifolius* L. **B2, B3.**

*Helianthus doronicoides* Lam. **B1, B2, B3.**

*Coreopsis rosea* Nutt. **B3.**

In **B3** occurs also the combination *Helianthus scabra* (sic),

without author citation, and in **Leon.** the combinations *Saponaria inflata*, *Ampelopsis trifolia* and *Centaurea arvensis* (sic). Of these the first two are probably errors for *Heliopsis scabra* and *Silene inflata* respectively. The others are presumably mistakes of the same sort, but it is not apparent for what they were intended.

According to Britton's Manual, 3d ed., *Scleria reticularis* Michx., var. *pubescens* Britton, occurs in Connecticut; and, on the strength of presumably reliable records, Gray's Manual, 7th ed., credits *Setaria imberbis* R. & S. to the state. The committee, however, have seen no specimens of these plants from Connecticut, and they are therefore omitted from the present Catalogue.

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### FUGITIVE SPECIES.

The species named in the following lists of fugitives are known to have occurred spontaneously in Connecticut, thus requiring mention in the Catalogue. For convenience of reference they are given in their proper place under the families to which they belong. They are not, however, to be regarded as properly forming a part of our uncultivated flora, and in making up the tables of statistics that follow they are left out of account entirely.

These fugitives may be separated into groups as follows:

#### GROUP I.

Species of which neither seed nor plant is ordinarily hardy in this climate and which can therefore continue but for a single season; mostly plants of dumping grounds.

*Zea Mays* L.

*Eichhornia crassipes* (Mart.) Solms.

*Cicer arietinum* L.

*Vicia Faba* L.

*Pisum sativum* L.

*Pisum sativum* L., var. *arvensis* (L.) Poir.

*Phaseolus vulgaris* L.

*Phaseolus vulgaris* L., var. *nanus* (L.) Taubert.

*Ricinus communis* L.



*Abutilon pictum* (Gill.) Walp.  
*Hibiscus esculentus* L.

## GROUP 2.

Annual or biennial species cultivated either for use or ornament, that persist for a year or two in the locality where cultivated or where the seeds may be accidentally scattered; perennials, often grown for ornament, that rarely escape and maintain themselves for a few years and later disappear; and species that appear spontaneously but remain only a year or two.

*Polypogon monspeliensis* (L.) Desf.

*Avena sativa* L.

*Cynodon Dactylon* (L.) Kuntze.

*Secale cereale* L.

*Triticum sativum* Lam.

*Hordeum vulgare* L.

*Cyperus fuscus* L.

*Juncus brachycarpus* Engelm.

*Sisyrinchium albidum* Raf.

*Fagopyrum esculentum* Moench.

*Beta vulgaris* L.

*Portulaca grandiflora* Hook.

*Papaver Rhoeas* L.

*Argemone alba* Lestib.

*Argemone mexicana* L.

*Lobularia maritima* (L.) Desv.

*Lepidium sativum* L.

*Raphanus sativus* L.

*Brassica Napus* L.

*Brassica Rapa* L.

*Brassica oleracea* L.

*Lunaria annua* L.

*Cleome spinosa* L.

*Reseda alba* L.

*Cytisus scoparius* (L.) Link.

*Trifolium incarnatum* L.

*Glycyrrhiza lepidota* (Nutt.) Pursh.

*Geranium dissectum* L.

*Anethum graveolens* L.

*Lysimachia vulgaris* L.  
*Ipomoea coccinea* L.  
*Verbena officinalis* L.  
*Salvia pratensis* L.  
*Salvia splendens* Ker.  
*Capsicum annuum* L.  
*Solanum tuberosum* L.  
*Datura meteloides* DC.  
*Nicotiana rustica* L.  
*Nicotiana Tabacum* L.  
*Linaria Elatine* (L.) Mill.  
*Pentstemon grandiflorus* Nutt.  
*Citrullus vulgaris* Schrad.  
*Cucumis Melo* L.  
*Cucumis sativus* L.  
*Cucurbita maxima* Duchesne.  
*Cucurbita moschata* Duchesne.  
*Cucurbita Pepo* L.  
*Cucurbita Pepo* L., var. *condensa* Bailey.  
*Anthemis nobilis* L.  
*Artemisia Abrotanum* L.  
*Calendula officinalis* L.  
*Cirsium altissimum* (L.) Spreng.  
*Leontodon hastilis* L.  
*Lactuca sativa* L.  
*Crepis taraxacifolia* Thuill.  
*Crepis rigida* W. & K.

### GROUP 3.

Species that are cultivated and inclined to escape, and species that appear spontaneously, the latter mostly brought in with hay or grain, with grass or clover seed, in mill supplies and by railroads; that are of so recent introduction or have been so little observed that it is not yet known whether they will persist.

The line drawn between this group and a number of species regarded as adventive is of necessity somewhat arbitrary, and no doubt further observation will show that some of the species listed here have become a part of our uncultivated flora. It is

also possible that a species now considered adventive and well established may later disappear.

- Sorghum halepense (L.) Pers.
- Echinochloa frumentacea (Roxb.) Link.
- Bromus squarrosus L.
- Agropyron tenerum Vasey.
- Elymus brachystachys Scribn. & Ball.
- Salix incana Schrank.
- Corylus heterophylla Fisch.
- Cycloloma atriplicifolium (Spreng.) Coulter.
- Chenopodium capitatum (L.) Aschers.
- Atriplex tatarica L.
- Acnida tuberculata Moq.
- Acnida tuberculata Moq., var. prostrata (U. & B.) Robinson.
- Mirabilis Jalapa L.
- Anychia polygonoides Raf.
- Tetragonia expansa Murr.
- Gypsophila muralis L.
- Gypsophila elegans Bieb.
- Nigella sativa L.
- Nigella damascena L.
- Eschscholtzia californica Cham.
- Lepidium ruderales L.
- Lepidium Draba L.
- Iberis amara L.
- Camelina sativa (L.) Crantz.
- Camelina microcarpa Andrz.
- Neslia paniculata (L.) Desf.
- Brassica japonica Siebold.
- Diploaxis muralis (L.) DC.
- Conringia orientalis (L.) Dumort.
- Alliaria officinalis Andrz.
- Sisymbrium canescens Nutt.
- Sisymbrium Sophia L.
- Iodanthus pinnatifidus (Michx.) Steud.
- Reseda Luteola L.
- Reseda odorata L.
- Philadelphus inodorus L.
- Deutzia scabra Thunb.

- Ribes nigrum* L.  
*Filipendula hexapetala* Gilib.  
*Sanguisorba minor* Scop.  
*Cercis canadensis* L.  
*Medicago arabica* Huds.  
*Medicago hispida* Gaertn.  
*Hosackia americana* (Nutt.) Piper.  
*Vicia hirsuta* (L.) S. F. Gray.  
*Lens esculenta* Moench.  
*Geranium pratense* L.  
*Geranium molle* L.  
*Erodium cicutarium* (L.) L'Hér.  
*Erodium moschatum* (L.) L'Hér.  
*Cardiospermum Halicacabum* L.  
*Sida spinosa* L.  
*Oenothera laciniata* Hill.  
*Eryngium planum* L.  
*Coriandrum sativum* L.  
*Forsythia viridissima* Lindl.  
*Sabatia campestris* Nutt.  
*Ellisia Nyctelea* L.  
*Phacelia viscida* (Benth.) Torr.  
*Phacelia Purshii* Buckley.  
*Amsinckia lycopsoides* Lehm.  
*Borago officinalis* L.  
*Verbena canadensis* (L.) Britton.  
*Sideritis montana* L.  
*Agastache Foeniculum* (Pursh) Kuntze.  
*Galeopsis Ladanum* L.  
*Physalis angulata* L.  
*Hyoscyamus niger* L.  
*Datura Metel* L.  
*Verbascum phlomoides* L.  
*Verbascum Pseudo-Lychnitis* Schur.  
*Linaria minor* (L.) Desf.  
*Antirrhinum Orontium* L.  
*Digitalis purpurea* L.  
*Veronica hederaefolia* L.  
*Martynia louisiana* Mill.

- Galium Wirtgenii* F. Schultz.  
*Valerianella Locusta* (L.) Betsche.  
*Knautia arvensis* (L.) T. Coulter.  
*Momordica Charantia* L.  
*Campanula patula* L.  
*Campanula carpatica* Jacq.  
*Jasione montana* L.  
*Grindelia squarrosa* (Pursh) Dunal.  
*Ambrosia bidendata* Michx.  
*Lepachys pinnata* (Vent.) Torr. & Gray.  
*Helianthus debilis* Nutt.  
*Helianthus debilis* Nutt., var. *cucumerifolius* (Torr. & Gray)  
 Gray.  
*Helianthus Maximiliani* Schrad.  
*Bidens leucantha* Willd.  
*Bidens aristosa* (Michx.) Britton.  
*Matricaria inodora* L.  
*Matricaria Chamomilla* L.  
*Matricaria suaveolens* (Pursh) Buchenau.  
*Artemisia campestris* L., var. *pubescens* (Jord. & Fourr.)  
 Rouy & Foucaud.  
*Artemisia Dracunculus* L.  
*Artemisia annua* L.  
*Artemisia frigida* Willd.  
*Petasites vulgaris* Hill.  
*Carduus acanthoides* L.  
*Centaurea nigra* L., var. *radiata* DC.  
*Picris echioides* L.

Total number of fugitive species and varieties listed 169.

## STATISTICAL SUMMARIES.

### TABULAR LIST OF FAMILIES.

Families.	Genera.		Species.		Varieties and Named Forms.	
	Native.	Introd.	Native.	Introd.	Native.	Introd.
PTERIDOPHYTA						
Polypodiaceae	16	...	37	...	10	...
Schizaeaceae	1	...	1	...	...	...
Osmundaceae	1	...	3	...	3	...

Families.	Genera.		Species.		Varieties and Named Forms.	
	Native.	Introd.	Native.	Introd.	Native.	Introd.
Ophioglossaceae	2	...	7	...	2	...
Marsileaceae	1	...	1	...	...	...
Equisetaceae	1	...	8	...	1	...
Lycopodiaceae	1	...	8	...	3	...
Selaginellaceae	1	...	2	...	...	...
Isoëtaceae	1	...	7	...	3	...

## SPERMATOPHYTA

## GYMNOSPERMAE

Taxaceae	1	...	1	...	...	...
Pinaceae	8	...	12	4	1	...

## ANGIOSPERMAE

## MONOCOTYLEDONEAE

Typhaceae	1	...	2	...	...	...
Sparganiaceae	1	...	7	...	2	...
Najadaceae	5	...	33	...	10	...
Juncaginaceae	2	...	2	...	...	...
Alismaceae	3	...	9	...	7	...
Hydrocharitaceae	2	...	2	...	...	...
Gramineae	47	10	146	41	13	3
Cyperaceae	12	...	174	...	72	...
Araceae	6	...	7	...	...	...
Lemnaceae	3	...	5	...	...	...
Eriocaulaceae	1	...	1	...	...	...
Xyridaceae	1	...	4	...	...	...
Commelinaceae	1	1	1	1	...	...
Pontederiaceae	2	...	3	...	1	...
Juncaceae	2	...	20	...	6	...
Liliaceae	17	7	30	12	...	...
Haemodoraceae	1	...	1	...	...	...
Dioscoreaceae	1	...	1	...	...	...
Amaryllidaceae	1	2	1	3	...	...
Iridaceae	2	1	6	4	...	...
Orchidaceae	12	...	40	...	2	...

## DICOTYLEDONEAE

Piperaceae	1	...	1	...	...	...
Salicaceae	2	...	18	8	5	1
Myricaceae	1	...	3	...	...	...
Juglandaceae	2	...	7	...	...	...
Betulaceae	5	...	11	...	1	...
Fagaceae	3	...	14	...	...	...
Urticaceae	9	3	11	9	2	...
Santalaceae	1	...	1	...	...	...
Loranthaceae	1	...	1	...	...	...

Families.	Genera.		Species.		Varieties and Named Forms.	
	Native.	Introd.	Native.	Introd.	Native.	Introd.
Aristolochiaceae	2	...	2	...	2	...
Polygonaceae	3	...	22	14	8	...
Chenopodiaceae	5	I	12	7	2	3
Amaranthaceae	2	...	2	6	...	I
Phytolaccaceae	I	...	I	...	...	...
Nyctaginaceae	...	I	...	3	...	...
Illecebraceae	I	I	I	I	...	...
Aizoaceae	...	I	...	I	...	...
Caryophyllaceae	6	5	11	24	I	...
Portulacaceae	I	I	2	I	...	...
Ceratophyllaceae	I	...	I	...	I	...
Nymphaeaceae	4	...	7	...	I	...
Ranunculaceae	13	I	37	5	5	I
Magnoliaceae	I	...	I	...	...	...
Menispermaceae	I	...	I	...	...	...
Berberidaceae	I	2	I	2	...	...
Lauraceae	2	...	2	...	...	...
Papaveraceae	I	2	I	3	...	...
Fumariaceae	3	I	4	I	...	...
Cruciferae	9	9	22	25	I	I
Capparidaceae	I	...	I	I	...	...
Resedaceae	...	I	...	I	...	...
Sarraceniaceae	I	...	I	...	...	...
Droseraceae	I	...	2	...	...	...
Podostemaceae	I	...	I	...	...	...
Crassulaceae	2	2	3	3	...	...
Saxifragaceae	7	I	15	6	...	...
Hamamelidaceae	2	...	2	...	...	...
Platanaceae	I	...	I	...	...	...
Rosaceae	15	5	79	35	21	3
Leguminosae	13	8	38	23	I	I
Linaceae	I	...	4	I	...	...
Oxalidaceae	I	...	5	I	...	...
Geraniaceae	I	...	3	I	...	...
Rutaceae	I	I	I	I	...	...
Simarubaceae	...	I	...	I	...	...
Polygalaceae	I	...	7	...	I	...
Euphorbiaceae	3	...	8	6	...	...
Callitrichaceae	I	...	3	...	...	...
Limnanthaceae	I	...	I	...	...	...
Anacardiaceae	I	...	6	...	I	...
Aquifoliaceae	2	...	5	...	2	...
Celastraceae	I	I	I	3	...	...
Staphyleaceae	I	...	I	...	...	...
Aceraceae	I	...	6	2	...	I

Families.	Genera.		Species.		Varieties and Named Forms.	
	Native.	Introd.	Native.	Introd.	Native.	Introd.
Sapindaceae	...	I	...	I	...	...
Balsaminaceae	I	...	2	...	...	...
Rhamnaceae	2	...	2	I	...	...
Vitaceae	2	...	6	...	I	...
Tiliaceae	I	...	2	I	...	...
Malvaceae	I	3	I	10	...	...
Hypericaceae	I	...	11	2	...	...
Elatinaceae	I	...	I	...	...	...
Cistaceae	3	...	9	...	I	...
Violaceae	I	...	25	3	I	...
Cactaceae	I	...	I	...	...	...
Thymelaeaceae	I	...	I	...	...	...
Lythraceae	4	...	4	I	...	...
Melastomaceae	I	...	I	...	...	...
Onagraceae	5	...	21	I	3	...
Haloragidaceae	2	...	6	...	2	...
Araliaceae	2	I	5	2	...	...
Umbelliferae	15	10	23	10	I	...
Cornaceae	2	...	8	...	...	...
Ericaceae	18	...	39	...	8	...
Plumbaginaceae	I	...	I	...	...	...
Primulaceae	5	I	9	3	...	I
Ebenaceae	I	...	I	...	...	...
Oleaceae	I	2	3	3	I	...
Gentianaceae	5	...	9	...	...	...
Apocynaceae	I	I	3	I	I	...
Asclepiadaceae	2	I	10	I	2	...
Convolvulaceae	3	...	7	5	I	...
Polemoniaceae	2	...	2	3	...	I
Hydrophyllaceae	I	...	I	...	...	...
Boraginaceae	4	4	6	10	...	...
Verbenaceae	I	...	3	2	...	...
Labiatae	15	14	34	31	4	I
Solanaceae	2	6	5	12	2	...
Scrophulariaceae	15	I	32	12	I	2
Lentibulariaceae	I	...	10	...	...	...
Orobanchaceae	3	...	3	...	...	...
Bignoniaceae	...	2	...	2	...	...
Phrymaceae	I	...	I	...	...	...
Plantaginaceae	I	...	5	2	I	...
Rubiaceae	5	I	17	1	I	...
Caprifoliaceae	6	I	20	6	2	...
Valerianaceae	I	I	I	I	...	...
Dipsacaceae	...	I	...	I	...	...
Cucurbitaceae	2	...	2	...	...	...



Families.	Genera.		Species.		Varieties and Named Forms.	
	Native.	Introd.	Native.	Introd.	Native.	Introd.
Campanulaceae	2	...	3	1	...	1
Lobeliaceae	1	...	6	...	...	...
Compositae	34	22	146	69	33	10

## SUMMARY BY DIVISIONS AND CLASSES.

Pteridophyta	25	...	74	...	22	...
Spermatophyta	454	142	1407	461	233	31
Gymnospermae	9	...	13	4	1	...
Angiospermae	445	142	1394	457	232	31
Monocotyledoneae	123	21	495	61	113	3
Dicotyledoneae	322	121	899	396	119	28

## SUMMARY BY MINOR GROUPS.

Families	.	.	.	.	134
Genera					
native	.	.	.	479	
introduced	.	.	.	142	
total	.	.	.	.	621
Species					
native	.	.	.	1481	
introduced	.	.	.	461	
total	.	.	.	.	1942
Varieties and Named Forms					
native	.	.	.	255	
introduced	.	.	.	31	
total	.	.	.	.	286

Whole number of different plants (species, varieties and named forms), not including those listed as fugitives, 2,228.

## ORIGIN OF INTRODUCED SPECIES.

	Temperate North America.	Tropical America.	Europe.	Eurasia.	Asia.	Unknown.
Pinaceae	1	...	3	...	...	...
Gramineae	...	...	42	1	1	...
Commelinaceae	1	...	...	...	...	...
Liliaceae	1	...	8	...	3	...
Amaryllidaceae	...	...	3	...	...	...
Iridaceae	...	...	2	...	2	...
Salicaceae	...	...	8	...	1	...
Urticaceae	2	...	3	1	3	...
Polygonaceae	3	...	7	1	3	...
Chenopodiaceae	...	2	7	...	1	...
Amaranthaceae	1	5	...	...	1	...
Nyctaginaceae	3	...	...	...	...	...
Illecebraceae	...	...	1	...	...	...

	Temperate North America.	Tropical America.	Europe.	Eurasia.	Asia.	Unknown.
Aizoaceae	1	...	...	...	...	...
Caryophyllaceae	...	...	21	2	1	...
Portulacaceae	...	...	1	...	...	...
Ranunculaceae	...	...	6	...	...	...
Berberidaceae	1	...	1	...	...	...
Papaveraceae	...	...	3	...	...	...
Fumariaceae	...	...	1	...	...	...
Cruciferae	...	...	24	1	1	...
Capparidaceae	1	...	...	...	...	...
Resedaceae	...	...	1	...	...	...
Crassulaceae	...	...	3	...	...	...
Saxifragaceae	3	...	3	...	...	...
Rosaceae	3	...	13	12	8	2
Leguminosae	5	...	16	3	...	...
Linaceae	...	...	...	...	...	1
Oxalidaceae	...	...	1	...	...	...
Geraniaceae	...	...	1	...	...	...
Rutaceae	1	...	...	...	...	...
Simarubaceae	...	...	...	...	1	...
Euphorbiaceae	2	...	4	...	...	...
Celastraceae	1	...	...	1	1	...
Aceraceae	1	...	1	1	...	...
Sapindaceae	...	...	...	...	1	...
Rhamnaceae	...	...	1	...	...	...
Tiliaceae	...	...	1	...	...	...
Malvaceae	...	...	8	...	2	...
Hypericaceae	1	...	1	...	...	...
Violaceae	...	...	3	...	...	...
Lythraceae	...	...	1	...	...	...
Onagraceae	1	...	...	...	...	...
Araliaceae	1	...	...	...	1	...
Umbelliferae	...	...	10	...	...	...
Primulaceae	...	...	3	1	...	...
Oleaceae	...	...	3	...	...	...
Apocynaceae	...	...	1	...	...	...
Asclepiadaceae	...	...	1	...	...	...
Convolvulaceae	...	2	2	...	1	...
Polemoniaceae	4	...	...	...	...	...
Boraginaceae	...	...	10	...	...	...
Verbenaceae	2	...	...	...	...	...
Labiatae	6	...	25	...	1	...
Solanaceae	2	6	2	...	2	...
Scrophulariaceae	4	...	10	...	...	...
Bignoniaceae	2	...	...	...	...	...
Plantaginaceae	1	...	1	...	...	...

	Temperature.		Europe.	Eurasia.	Asia.	Unknown.
	North America.	Tropical America.				
Rubiaceae	...	...	4	...	...	...
Caprifoliaceae	2	...	1	...	3	...
Valerianaceae	...	...	1	...	...	...
Dipsacaceae	...	...	1	...	...	...
Campanulaceae	...	...	1	1	...	...
Compositae	20	3	53	...	3	...

SPECIES, VARIETIES AND NAMED FORMS IN SOME OF THE PRINCIPAL GENERA.

	Species.		Varieties and Named Forms.		Total.
	Native.	Introd.	Native.	Introd.	
Potamogeton	27	...	10	...	37
Panicum	40	1	2	...	43
Bromus	5	8	...	...	13
Cyperus	12	...	4	...	16
Eleocharis	14	...	2	...	16
Scirpus	23	...	9	...	32
Carex	111	...	53	...	164
Juncus	18	...	6	...	24
Habenaria	13	...	...	...	13
Salix	13	5	5	...	23
Quercus	12	...	...	...	12
Rumex	3	7	...	...	10
Polygonum	18	7	8	...	33
Chenopodium	4	6	...	2	12
Ranunculus	16	2	2	1	21
Ribes	6	4	...	...	10
Crataegus	18	1	11	...	30
Potentilla	9	2	2	...	13
Rosa	5	7	...	1	13
Rubus	16	3	4	...	23
Prunus	9	6	...	...	15
Desmodium	13	...	...	...	13
Euphorbia	5	6	...	...	11
Hypericum	11	2	...	...	13
Viola	25	3	1	...	29
Mentha	1	9	1	...	11
Veronica	6	5	...	...	11
Galium	11	3	1	...	15
Solidago	27	...	4	...	31
Aster	32	1	19	...	52
Helianthus	6	5	1	...	12
Bidens	10	...	1	...	11

## BOTANICAL AUTHORS CITED.

The following list is not entirely complete, but is intended to summarize such information as the Committee were able to gather in the time, and with the resources, at their disposal.

- A. A. Eaton.** Alvah Augustus Eaton, 1865-1908. United States. Student particularly of the *Isoëtaceae* and *Equisetaceae* of North America.
- A. Br.** See Braun.
- Adans.** Michel Adanson, 1727-1806. Author of a work on the families of plants.
- A. DC.** Alphonse Louis Pierre Pyramus De Candolle, 1806-1893. Switzerland. Editor of the *Prodromus* after his father's death, and contributor to it; author of works on botanical geography, etc.
- Ait.** William Aiton, 1731-1793. England. Author of *Hortus Kewensis*.
- Ait. f.** William Townsend Aiton, 1766-1849. England. Director of the Royal Gardens at Kew.
- A. J. Eames.** Arthur Johnson Eames. United States.
- A. J. Grout.** Abel Joel Grout. United States. Student of North American mosses.
- All.** Carlo Allioni, 1725-1804. Italy. Prof. of Botany at Turin.
- Ames.** Oakes Ames. United States. Director of the Botanic Garden, Harvard University. Student of *Orchidaceae*.
- Anders.** Nils Johan Andersson, 1821-1880. Sweden. Prof. of Botany at Stockholm. Author of a monograph of the genus *Salix*, etc.
- Andr.** Henry C. Andrews. England. Botanical artist and engraver; conducted the Botanists' Repository, 1799-1811.
- Andrz.** Anton Lukianowicz Andrzejowski, 1784-1868. Russia. Prof. of Botany at Wilna.
- A. Nelson.** Aven Nelson. United States. Prof. of Botany at the State University of Wyoming. Author of articles on Rocky Mountain botany.
- Ångstr.** Johan Angstroem. Sweden. Author of a work on mosses of Scandinavia, published 1842.
- Ard.** Pietro Arduino, 1728-1805. Italy.
- Arn.** George Arnold Walker Arnott, 1799-1868. Scotland.
- Aschers., Ascherson.** Paul Friedrich August Ascherson. Germany. Prof. of Botany at the University of Berlin.

- Ashe.** William Willard Ashe. United States. Botanist, North Carolina Geological Survey.
- Aust.** Coe Finch Austin, 1831-1880. United States. Curator of the Herbarium at Columbia University. Student especially of North American mosses.
- Avé-Lallemant.** See Lall.
- Bab.** Charles Cardale Babington. England. Prof. of Botany at Cambridge University. Author of a manual of British botany, published 1843, etc.
- Bailey.** Liberty Hyde Bailey. United States. Director of the College of Agriculture at Cornell University. Author of studies of the genus *Carex* and of many works relating to horticulture.
- Baker.** John Gilbert Baker. England. Formerly Keeper of the Herbarium of the Royal Gardens, Kew.
- Balbis.** Giovanni Battista Balbis, 1765-1831. Italy. Prof. at Turin.
- Ball.** Carleton Roy Ball. United States. Agronomist in the Department of Agriculture.
- Banks.** Joseph Banks, 1743-1820. England. President of the Royal Society. Explorer, and generous patron of science.
- Barneoud.** F. Marius Barneoud. France. Author of a monograph of the *Plantaginaceae*, published 1845.
- Barnh.** John Hendley Barnhart. United States. Librarian, New York Botanical Garden.
- Barratt.** Joseph Barratt, 1707-1882. United States. Student chiefly of willows and sedges.
- Bart., Barton.** William Paul Crillon Barton, 1787-1856. United States. Prof. at the University of Pennsylvania. Author of *Compendium Florae Philadelphicae*, and of a flora of North America.
- Bartlett.** Harley Harris Bartlett. United States.
- B. D. Greene.** Benjamin D. Greene, 1793-1863. United States.
- Beauv.** Ambroise Marie François Joseph Palisot de Beauvois, 1755-1820. France. Author of a great work on grasses.
- Beck.** Lewis Caleb Beck, 1798-1853. United States. Prof. at various colleges. Author of *Botany of the Northern and Middle States*.
- Beeby.** William Hadden Beeby. England.
- Benn.** Arthur Bennett. England.

- Benth.** George Bentham, 1800-1884. England. Author or joint author of many important botanical works.
- Berchtold.** Friedrich, Graf von Berchtold, b. 1780. Bohemia.
- Bergius.** Peter Jonas Bergius, 1730-1790. Sweden.
- Bernh.** Johann Jacob Bernhardt, 1774-1850. Germany. Prof. of Botany at Erfurt.
- Bess.** Wilhelm S. J. G. von Besser, 1784-1842. Austria.
- Betcke.** Ernst Friedrich Betcke. Germany. Author of a work on the genus *Valerianella*, published 1826.
- Beyrich.** Karl Beyrich, d. 1834. Germany.
- Bicknell.** Eugene Pintard Bicknell. United States. Author of many articles on North American plants.
- Bieb.** Friedrich August Marschall von Bieberstein, 1768-1826. Germany and Russia. Author of works on the flora of Southern Russia.
- Bigel.** Jacob Bigelow, 1787-1879. United States. Author of *Florula Bostoniensis*, and of a *Medical Botany*.
- Bisch., Bischoff.** Gottlieb Wilhelm Bischoff, 1797-1854. Germany. Prof. of Botany at Heidelberg.
- Bissell.** Charles Humphrey Bissell. United States.
- Blanchard.** William Henry Blanchard. United States.
- Blume.** Karl Ludwig Blume, 1796-1862. Holland. Director of the Royal Herbarium at Leyden. Author of a great flora of Java.
- Blytt.** Matthias Numsen Blytt, 1789-1862. Norway. Prof. of Botany at Christiania. Author of a flora of Norway.
- Boeckl.** Johann Otto Boeckeler, 1803-1899. Germany. Writer on *Cyperaceae*.
- Boehm.** Georg Rudolf Boehmer, 1723-1803. Germany. Prof. at Wittenberg. (*Boehmeria* Jacq.)
- Boenn.** Clemens Maria Friedrich von Boenninghausen, 1785-1864. Germany.
- Boiss.** Edmond Boissier, 1810-1885. Switzerland. Author of a *Flora Orientalis*, various studies of the genus *Euphorbia*, etc.
- Bonpland.** See HBK.
- Boott.** Francis Boott, 1792-1863. United States and England. Author of a great work on the genus *Carex*. See also W. Boott.
- Borkh.** Moritz Balthasar Borkhausen, 1760-1806. Germany.
- Bosc.** Louis Augustin Guillaume Bosc, 1759-1828. France.
- Bosch.** Roelof Benjamin van den Bosch, 1810-1862. Holland.

- Braun.** Alexander Carl Heinrich Braun, 1805-1877. Germany. Professor at the University of Berlin. Writer on Cryptogams.
- Bray.** See U. & B.
- Briquet.** John Isaac Briquet. Switzerland. Director of the Geneva Botanic Garden.
- Britten.** James Britten. England. Senior Assistant, Department of Botany, British Museum. Editor, *Journal of Botany*.
- Britton.** Nathaniel Lord Britton. United States. Director, New York Botanical Garden. Author of *Illustrated Flora of the Northern States and Canada* (with Addison Brown), *Manual of the Flora of the Northern States and Canada*, and numerous botanical papers.
- Brown.** Addison Brown. United States. See also R. Br.
- Browne.** See P. Br.
- BSP.** Nathaniel Lord Britton, E. E. Sterns and Justus Poggenburg. Authors of a Preliminary Catalogue of the Plants of the Vicinity of New York.
- Buchenau.** Franz Georg Philipp Buchenau, 1831-1906. Germany.
- Buckley.** Samuel Botsford Buckley, 1809-1884. United States.
- Burgess.** Edward Sanford Burgess. United States. Prof. of Natural Science, Normal College, New York. Author of studies of the genus *Aster*.
- Burm. f.** Nickolaus Laurens Burmann, 1734-1793. Holland.
- Bush.** B. F. Bush. United States.
- Candolle.** See A. DC., DC.
- C. & S.** A. von Chamisso and D. F. L. von Schlechtendal. See Cham. and Schlecht.
- Carey.** John Carey, 1797-1880. England and United States. Lived and collected in the United States, 1830 to 1852; wrote on willows and sedges.
- Carr.** Élie Abel Carrière, 1818-1896. France. Éditeur of *Révue Horticole*; author of a monograph of *Coniferae*.
- Casp.** Robert Caspary, 1818-1887. Germany. Prof. of Botany at Königsberg. Wrote on water plants.
- Cass.** Alexandre Henri Gabriel, Comte de Cassini, 1781-1832. France.

- Cav.** Antonio José Cavanilles, 1745-1804. Spain. Prof. of Botany at Madrid.
- C. C. Gmel.** Carl Christian Gmelin, 1762-1837. Germany.
- Čelak.** Ladislav Čelakovský, 1834-1902. Bohemia. Prof. of Botany at Prague.
- Chaix.** Dominique Chaix, 1731-1800. France.
- Cham.** Adalbert von Chamisso, 1781-1838. Germany. Poet and naturalist.
- Chapm.** Alvan Wentworth Chapman, 1809-1899. United States. Author of a standard flora of the Southern States.
- Chase.** (Mrs.) Agnes Chase. United States. Assistant in systematic agrostology, U. S. Department of Agriculture.
- Chatelain.** Jean Jacques Chatelain. Author of a work on the genus *Corallorrhiza*, published 1760.
- Clarke.** Charles Baron Clarke, 1832-1906. England. Student principally of the *Cyperaceae*.
- Clayt.** John Clayton, 1685-1773. Physician and collector in Virginia, and correspondent of Gronovius, whose *Flora Virginica* was based on Clayton's collections and notes. (*Claytonia* L.)
- Clute.** Willard Nelson Clute. United States. Student of North American ferns and fern-allies.
- Cosson.** Ernest Cosson, 1819-1889. France.
- Coulter.** John Merle Coulter. United States. Prof. of Botany at the University of Chicago. Author of a manual of Rocky Mountain Botany, botanical text-books, etc. See also T. Coulter.
- Courtois.** Richard Courtois, 1806-1835. Belgium. Prof. at Liège.
- Coville.** Frederick Vernon Coville. United States. Botanist, U. S. Department of Agriculture. Curator, U. S. National Herbarium. Author of many botanical papers.
- Crantz.** Heinrich Johann Nepomuk Crantz, 1722-1799. Austria. Prof. at Vienna.
- Curtis.** William Curtis, 1746-1799. England. Founder of Curtis's Botanical Magazine. See also M. A. Curtis.
- C. Wright.** Charles Wright, 1811-1886. United States. Made important collections in the southwestern U. S. and in Cuba.
- Cyrill.** Domenico Cyrillo, 1730-1799. Italy. Prof. at Naples.
- Darby.** John Darby, 1804-1877. United States. Author of a Botany of the Southern States.



- Darl.** William Darlington, 1782-1863. United States. Author of *Flora Cestrica*, a local flora of the vicinity of West Chester, Penn.
- Davenp.** George Edward Davenport, 1833-1907. United States. Student of American ferns.
- DC.** Augustin Pyramus De Candolle, 1778-1841. France and Switzerland. Projector of the *Prodromus*, writer of its earlier volumes and of other important botanical work. See also A. DC.
- D. C. Eaton.** Daniel Cady Eaton, 1834-1895. United States. Prof. of Botany at Yale University. Author of *Ferns of North America*, etc.
- Dcne.** Joseph Decaisne, 1809-1882. France. Prof. at the Jardin des Plantes, Paris.
- D. Don.** David Don, 1800-1841. England. Prof. at King's College, London.
- De Candolle.** See A. DC., DC.
- Desf.** René Louiche Desfontaines, 1750-1833. France. Prof. at the Jardin des Plantes, Paris.
- Desr.** Desrousseaux.
- Desv.** Augustin Nicaise Desvaux, 1784-1856. France. Prof. of Botany at Angers.
- Dewey.** Chester Dewey, 1784-1867. United States. Prof. at Rochester University. Student of American *Carices*.
- Dicks.** James Dickson, 1738-1822. Scotland. (*Dicksonia* L'Her.)
- Dietr.** Friedrich Gottlieb Dietrich, 1768-1850. Germany. Director of the Botanic Garden at Eisenach.
- Don.** See D. Don, G. Don.
- Donn.** James Donn, 1758-1813. England. Author of *Hortus Cantabrigiensis*.
- Dougl.** David Douglas, 1799-1834. Scotland. Collected much in northwestern North America.
- Druce.** George Claridge Druce. England. Author of various works on the British flora.
- Drude.** Oskar Drude. Germany. Prof. at Dresden. Author of works on plant geography, etc.
- Duby.** Jean Étienne Duby, b. 1798. Switzerland. Author of studies in the *Primulaceae*.
- Duchesne.** Antoine Nicolas Duchesne, 1747-1827. France.
- Dudley.** William Russell Dudley. United States. Prof. of Botany at Leland Stanford, Jr., University.

- Dufr.** Pierre Dufresne, 1786-1836. France. Author of a work on the *Valerianaceae*.
- Dulac.** J. Dulac. France. Author of a Flora du Département des Hautes Pyrénées, 1867.
- Dumont.** Jules Sébastien César Dumont d'Urville, 1790-1842. France.
- Dumort.** Barthélemy Charles Dumortier, 1797-1878. Belgium.
- Dunal.** Michel Félix Dunal, 1789-1856. France. Prof. of Botany at Montpellier. Author of a monograph of *Solanum* and allied genera, etc.
- Dur.** Michel Charles Durieu de Maisonneuve, 1796-1878. France. Director of the Botanic Garden at Bordeaux.
- Durand.** Elias Durand, 1794-1873. United States. Collector of North American plants. See also Th. Durand.
- DuRoi.** Johann Philipp DuRoi, 1741-1785. Germany. Author of a work on the trees of North America.
- Eames.** Edwin Hubert Eames. United States. See also A. J. Eames.
- Eaton.** See A. A. Eaton, D. C. Eaton, H. H. Eaton.
- Ebermaier.** Karl Heinrich Ebermaier, 1802-1870. Germany.
- Eddy.** Caspar Wistar Eddy. United States. Author of a local flora, *Plantae Plandomenses*, published 1808.
- Eggleston.** Willard Webster Eggleston. United States. Collector; student of *Crataegus*.
- E. Hitchc.** Edward Hitchcock, 1793-1864. United States. Prof. at Amherst College. Author of a Catalogue of Plants in the Vicinity of Amherst College, etc.
- Ehrh.** Friedrich Ehrhart, 1742-1795. Germany.
- Ell.** Stephen Elliott, 1771-1830. United States. Author of Sketch of the Botany of South Carolina and Georgia.
- Ellis.** John Ellis, 1711-1776. England. (*Ellisia* L.)
- Endlicher.** Stephan Friedrich Ladislaus Endlicher, 1804-1849. Prof. at Vienna and Director of the Botanic Garden. Author of a *Genera Plantarum*.
- Engelm.** George Engelmann, 1809-1884. United States. Studied and monographed more or less completely several difficult genera of North American plants.
- E. S. Miller.** Elihu Sandford Miller. United States.
- Fabric.** Philipp Konrad Fabricius, 1714-1774. Germany. Prof. at Helmstadt.
- Farwell.** Oliver Atkins Farwell. United States.

- Fée.** Antoine Laurent Apollinaire Fée, 1789-1874. France. Prof. of Botany at Strassburg. Writer on ferns.
- Fenzl.** Eduard Fenzl, 1808-1879. Austria. Curator of the Botanical Museum at Vienna.
- Fernald.** Merritt Lyndon Fernald. United States. Assistant Prof. of Botany, Harvard University. Author of many papers and monographs dealing with the North American and Mexican floras.
- Fisch.** Friedrich Ernst Ludwig von Fischer, 1782-1854. Russia. Director of the Botanic Garden at St. Petersburg.
- Flügge.** Johann Flügge, 1775-1816. Germany.
- Focke.** Wilhelm Olbers Focke. Germany.
- Forbes.** John Forbes, 1773-1861. England. Gardener at Woburn Abbey. Author of *Hortus Woburnensis*.
- Forskål.** Pehr Forskål, 1736-1768. Sweden. Collected in Egypt and Arabia.
- Foucaud.** Julien Foucaud, 1847-1904. France.
- Fourn.** Pierre Nicolas Eugène Fournier, 1834-1884. France. Author of works on Mexican ferns and grasses.
- Fourr.** Jules Fourreau. France.
- Fries.** Elias Magnus Fries, 1794-1878. Sweden. Prof. at Upsala. Author of many works on systematic botany, chiefly of the lower Cryptogams.
- Fritsch.** Karl Fritsch. Austria. Prof. of Botany at the University of Graz.
- Froel.** Joseph Aloys Froelich, 1766-1841. Germany. Author of a monograph of the genus *Gentiana*, etc.
- F. Schultz.** Friedrich Wilhelm Schultz, b. 1804. Germany.
- Gaertn.** Joseph Gaertner, 1732-1791. Germany.
- Garcke.** Friedrich August Garcke, 1819-1904. Germany. Prof. at Berlin. Author of a standard manual of the German flora.
- Gaud.** Charles Gaudichaud-Beaupré, 1789-1864. France.
- Gaudin.** Jean François Gottlieb Philippe Gaudin, 1766-1833. Switzerland. Author of a *Flora Helvetica*.
- Gay.** See J. Gay.
- G. Don.** George Don, 1798-1856. England.
- Germain.** Ernest Germain de Saint-Pierre. France.
- Gilbert.** Benjamin Davis Gilbert, 1835-1907. United States. Student of American ferns.
- Gilib.** Jean Emmanuel Gilibert, 1741-1814. Prof. at Wilna, Russia, and at Lyons, France.

- Gill.** John Gillies, d. before 1837. Lived and collected in South America.
- Gloxin.** Benjamin Peter Gloxin. France. Published *Observationes Botanicae*, 1785.
- Gmel.** Samuel Gottlieb Gmelin, 1743-1774. Russia. See also C. C. Gmel., J. F. Gmel.
- Godr.** Dominique Alexandre Godron, 1807-1880. France. Prof. at Nancy. Joint author of a flora of France.
- Goldie.** John Goldie, 1793-1886. Scotland and Canada. Traveled and collected in eastern North America in the early 19th century.
- Good.** Samuel Goodenough, 1743-1827. England.
- Grab.** Heinrich Emmanuel Grabowski, 1792-1842. Germany.
- Graebner.** Paul Graebner. Germany. Curator of the Royal Botanic Garden at Dahlem.
- Graves.** Charles Burr Graves. United States.
- Gray.** Asa Gray, 1810-1888. United States. The most distinguished of American botanists; for many years Prof. of Natural History at Harvard University. Author of the well-known *Manual of the Botany of the Northeastern States*, *Synoptical Flora of North America*, etc. See also S. F. Gray.
- Greene.** Edward Lee Greene. United States. Former Prof. of Botany at the University of California and at the Catholic University of America, Georgetown. Author of many articles and monographs dealing with North American plants. See also B. D. Greene.
- Greenman.** Jesse More Greenman. United States. Field Museum of Natural History, Chicago.
- Gren.** Charles Grenier, 1808-1875. France. Prof. at Besançon. Joint author (with Godron) of a flora of France.
- Grev.** Robert Kaye Greville, 1794-1866. Scotland. Prof. at Edinburgh. Author or joint author of several works, mostly on cryptogamic plants.
- Griseb.** Heinrich Rudolf August Grisebach, 1814-1879. Germany. Prof. of Botany at Göttingen. Author of a monograph of the *Gentianaceae*, *Flora of the British West Indies*, etc.
- Gronov.** Jan Fredrik Gronovius, 1690-1762. Holland. Author of a *Flora Virginica*; a distinguished botanist in his time.
- Grout.** See A. J. Grout.

- G. S. Miller.** Gerrit Smith Miller, Jr. United States. Assistant Curator, U. S. National Museum.
- Guss.** Giovanni Gussone, 1787-1866. Italy. Prof. of Botany at Naples.
- Haberer.** Joseph V. Haberer. United States.
- Hack.** Eduard Hackel. Austria. Author of works on grasses.
- Haller f.** Gottlieb Emmanuel von Haller, 1730-1786. Switzerland.
- Harper.** Roland MacMillan Harper. United States.
- Haussk.** Carl Haussknecht.
- Haw.** Adrian Hardy Haworth, 1772-1833. England. Author of *Synopsis Plantarum Succulentarum*.
- Hayne.** Friedrich Gottlieb Hayne, 1763-1832. Germany. Prof. at Berlin.
- HBK.** Friedrich Wilhelm Heinrich Alexander von Humboldt, 1796-1859. Germany. Aimé Jacques Alexandre Bonpland, 1773-1858. France. Karl Sigismund Kunth, q. v. Joint authors of a great work on plants of the New World.
- Hegelm.** Christoph Friedrich Hegelmaier, 1833-1906. Germany. Prof. at Tübingen. Author of a monograph of the genus *Callitriche*, etc.
- Heller.** Amos Arthur Heller. United States. Collector; author of a *Catalogue of North American Plants*, etc.
- H. H. Eaton.** Hezekiah Hulbert Eaton, 1809-1832. United States.
- Hill.** John Hill, 1716-1775. England.
- Hitchc.** Albert Spear Hitchcock. United States. Systematic Agrostologist, U. S. Department of Agriculture. See also E. Hitchc.
- Hochst.** Christian Friedrich Hochstetter, 1787-1860. Germany.
- Hoffm.** Georg Franz Hoffman, 1761-1826. Germany and Russia. Prof. of Botany at Göttingen and Moscow.
- Hoffmg.** Johann Centurius, Graf von Hoffmanssegg, 1766-1849. Germany.
- Hollick.** Charles Arthur Hollick. United States. Author of papers on the botany and geology of the vicinity of New York.
- Hook.** William Jackson Hooker, 1785-1865. England. Director of the Royal Garden at Kew. Author of *Species Filicum*, and of much important botanical work.

- Hook. f.** Joseph Dalton Hooker. England. Former Director of the Royal Garden and Museum at Kew. Joint author (with Bentham) of an authoritative work on the genera of plants. Author of *Flora of British India*, etc.
- Horkel.** Johann Horkel, 1769-1846. Germany. Prof. at the University of Berlin.
- Hornem.** Jens Wilken Hornemann, 1770-1841. Denmark. Prof. of Botany at Copenhagen.
- Host.** Nicolaus Thomas Host, 1761-1834. Austria. Wrote on Austrian grasses.
- Houba.** J. Houba. Belgium(?). Author of a work on oaks, published 1887.
- House.** Homer Doliver House. United States.
- Howell.** Thomas Howell. United States. Author of a flora of the Northwestern States.
- Huds.** William Hudson, 1730-1793. England. Author of a *Flora Anglica*. (*Hudsonia* L.)
- Hull.** John Hull, 1761-1843. England. Author of a British Flora.
- Humboldt.** See HBK.
- Ives.** Eli Ives, 1779-1861. United States. Prof. at Yale College.
- Jackson.** Benjamin Daydon Jackson. England. Curator of the Herbarium of the Linnean Society, London. Joint author of the *Index Kewensis*.
- Jacq.** Nicolaus Joseph Jacquin, 1727-1817. Austria. Collected in tropical America. Author of several important botanical works.
- J. E. Smith.** See Sm.
- J. F. Gmel.** Johann Friedrich Gmelin, 1748-1804. Germany. Prof. at Tübingen and Göttingen.
- J. Gay.** Jacques Gay, 1786-1864. France.
- J. G. Smith.** Jared Gage Smith. United States. In charge of U. S. Agricultural Experiment Station, Hawaii.
- Jord.** Alexis Jordan. France. Joint author (with Fourreau) of *Breviarium Plantarum Novarum*, 1866.
- Juss.** Antoine Laurent Jussieu, 1748-1836. France. Prof. at the Jardin des Plantes, Paris. The first to attempt to define the natural families of plants, in his *Genera Plantarum*, 1774.
- Kalm.** Pehr Kalm, 1715-1779. Finland. Traveled and collected in America. (*Kalmia* L.)

- Karst.** Hermann Gustav Karl Wilhelm Karsten, 1817-1908. Austria and Germany. Prof. at Vienna.
- Ker.** John Bellenden Ker, 1765(?) - 1871. England.
- Kitaibel.** See W. & K.
- K. Koch.** See Koch.
- Knight.** Ora Willis Knight. United States.
- Koch.** Karl Heinrich Emil Koch, 1809-1879. Germany. Prof. at Berlin.
- Koehne.** Bernhard Adalbert Emil Koehne. Germany. Prof. at Berlin. Dendrologist; author of a monograph of the *Lythraceae* of the United States.
- Koeler.** Georg Ludwig Koeler, d. 1807. Germany. Prof. at Mainz.
- Kuhn.** Friedrich Adalbert Maximilian Kuhn, 1842-1894. Germany. Writer on ferns.
- Kunth.** Karl Sigismund Kunth, 1788-1850. Germany. Prof. at Berlin. Author of *Enumeratio Plantarum*, a work designed to supplement the *Prodromus*, *Revisio Graminum*, etc. See also H.B.K.
- Kuntze.** Karl Ernst Otto Kuntze, 1843-1907. Germany. Author of *Revisio Generum Plantarum*, a work chiefly nomenclatorial.
- L.** Carolus Linnaeus (Carl von Linné), 1707-1778. Sweden. Prof. of Botany at Upsala. The "Father of Botany." Inventor of the binomial system of nomenclature. His *Species Plantarum* is accepted as the basis of modern descriptive botany. (*Linnaea* Gronov.)
- Laestad.** Lars Levi Laestadius, b. 1800. Lapland.
- Lag.** Mariano Lagasca, 1776-1839. Spain. Wrote on Mexican and Spanish plants.
- Lall.** Julius Leopold Eduard Avé-Lallemant, 1803-1867. Germany.
- Lam.** Jean Baptiste Antoine Pierre Monnet de Lamarck, 1744-1829. France. Distinguished naturalist and philosopher; author of a theory of organic evolution which anticipated Darwin's.
- Lamotte.** Martial Lamotte. France.
- Lamson-Scribner.** See Scribn.
- Lange.** Johan Martin Christian Lange, 1818-1898. Denmark. Prof. of Botany at Copenhagen.
- Le Conte.** John Eaton Le Conte, 1784-1860. United States. Author of papers on various genera of North American plants.

- Lecoq.** Henri Lecoq, 1802-1871. France. Prof. at Clermont-Ferrand.
- Ledeb.** Karl Friedrich von Ledebour, 1785-1851. Russia. Prof. at Dorpat. Author of *Flora Altaica*, *Flora Rossica*.
- Leers.** Johann Daniel Leers, 1727-1774. Germany. (*Lcersia* Sw.)
- Leggett.** William Henry Leggett, 1816-1882. United States. Founder of the Bulletin of the Torrey Botanical Club. Studied the genus *Lechea*.
- Lehm.** Johann Georg Christian Lehmann, 1792-1860. Germany. Prof. and Director of the Botanic Garden at Hamburg.
- Lejeune.** Alexander Ludwig Simon Lejeune, 1779-1858. Belgium. Joint author (with Courtois) of *Compendium Florae Belgicae*.
- Lestib.** François Joseph Lestiboudois, d. 1815. France. Prof. of Botany at Lille.
- Leys.** Friedrich Wilhelm von Leysser, 1731-1815. Germany.
- L. f.** Carl von Linné, the son, 1741-1783. Sweden. Prof. at Upsala.
- L'Her.** Charles Louis L'Heritier de Brutelle, 1746-1800. France.
- Lightf.** John Lightfoot, 1735-1788. England. Author of a flora of Scotland.
- Lindl.** John Lindley, 1799-1865. England. Prof. of Botany at London. Distinguished as a horticulturist and author of many botanical works.
- Link.** Heinrich Friedrich Link, 1767-1851. Germany. Prof. of Botany at Berlin.
- Linnaeus, Linné.** See L., L. f.
- Lodd.** Conrad Loddiges. England. Nurseryman near London; conducted Loddiges' Botanical Cabinet, 1817-1833.
- Loisel.** Jean Louis Auguste Loiseleur-Deslongchamps, 1774-1849. France.
- Loud.** John Claudius Loudon, 1783-1843. England. Author of an encyclopedia of plants native and cultivated in Great Britain, *Arboretum et Fruticetum Britannicum*, etc.
- Ludwig.** Christian Gottlieb Ludwig, 1709-1773. Germany. (*Ludvigia* L.)
- Mackenzie.** Kenneth Kent Mackenzie. United States.
- MacMill.** Conway MacMillan. United States. Author of works on Minnesota plants.



- M. A. Curtis.** Moses Ashley Curtis, 1808-1873. United States. Author of a flora of North Carolina and of important studies of North American fungi.
- Magnus.** Paul Magnus.
- Marchal.** Élie Marchal. Belgium.
- Marsh.** Humphrey Marshall, 1722-1801. United States. Author of a work on American trees and shrubs.
- Martens.** Martin Martens, 1797-1863. Belgium. Prof. of Botany at Louvain.
- Martius.** Karl Friedrich Philipp von Martius, 1794-1868. Germany. Prof. at Munich.
- Maxim.** Karl Johann Maximowicz, 1827-1891. Russia. Wrote much on Asiatic plants.
- Maxon.** William Ralph Maxon. United States. Assistant Curator, U. S. National Museum. Writer on ferns.
- Medic.** Friedrich Casimir Medicus, 1736-1808. Germany. Director of the Botanic Garden at Mannheim.
- Meisn.** Karl Friedrich Meisner, 1800-1874. Switzerland. Prof. of Botany at Basle.
- Mérat.** François Victor Mérat, 1780-1851. France.
- Merr.** Elmer Drew Merrill. United States. Government Botanist in the Philippine Islands.
- Mert.** Karl Heinrich Mertens, 1796-1830. Russia.
- Mey.** Ernst Heinrich Friedrich Meyer, 1791-1858. Germany. Prof. of Botany at Königsberg.
- Micheli.** See M. Micheli.
- Michx.** André Michaux, 1746-1802. France, but carried on much botanical work in North America.
- Michx. f.** François André Michaux, 1770-1855. France and United States. Son of the preceding. Author of a work on the trees of North America.
- Milde.** Julius Milde, 1824-1871. Germany. Author of works on mosses and pteridophytes.
- Mill.** Philip Miller, 1691-1771. England. Author of a celebrated Dictionary of Gardening.
- Miller.** See E. S. Miller, G. S. Miller, Mill.
- Millsp.** Charles Frederic Millspaugh. Curator, Department of Botany, Field Museum of Natural History, Chicago. Author of a flora of West Virginia and of numerous articles dealing chiefly with the plants of Mexico and the West Indies.
- M. Micheli.** Marco Micheli, 1844-1902. Switzerland.

- Moench.** Konrad Moench, 1744-1805. Germany. Prof. at Marburg.
- Mohr.** Carl Theodor Mohr, 1824-1901. United States. Botanist, Geological Survey of Alabama. Author of *Plant Life of Alabama*, etc.
- Moore.** Thomas Moore, 1821-1887. England. Curator of the Chelsea Botanic Garden. Author of an *Index Filicum*, etc. See also Pease & Moore.
- Moq.** Christian Horace Bénédicte Alfred Moquin-Tandon, 1804-1863. France.
- Morong.** Thomas Morong, 1827-1894. United States. Curator of the Herbarium at Columbia University. Collected in Paraguay. Published much on *Najadaceae*.
- Muell. Arg.** Johann Mueller of Aargau, 1829-1896. Switzerland. Director of the Geneva Botanic Garden and Curator of the Delessert Herbarium.
- Muench.** Otto, Freiherr von Muenchhausen, 1716-1774. Germany.
- Muhl.** Gotthilf Henry Ernest Muhlenberg, 1756-1817. United States. Correspondent of many European botanists. Author of a *Catalogue of North American Plants*, *Description of North American Grasses*, etc. (*Muhlenbergia* Schreb.)
- Müller.** See Muell. Arg., O. F. Müller.
- Murr.** Johann Andreas Murray, 1740-1791. Germany. Prof. at Göttingen.
- Mutis.** José Celestino Mutis, 1732-1808. Spain.
- Nash.** George Valentine Nash. United States. Curator of Plantations, New York Botanical Garden. Writer on North American grasses.
- Neck.** Noel Joseph de Necker, 1729-1793. Germany.
- Nees.** Christian Gottfried Daniel Nees von Esenbeck, 1776-1858. Germany. Prof. of Botany at Breslau.
- Nelson.** See A. Nelson.
- Nutt.** Thomas Nuttall, 1786-1859. United States and England. Explorer, botanist and ornithologist. Director of the Harvard Botanic Garden. Author of *Genera of North American Plants*, *Forest Trees of the United States*.
- Nym.** Carl Fredrik Nyman, 1820-1893. Sweden.
- Oakes.** William Oakes, 1799-1848. United States. Collector and student of the New England flora. (*Oakesia* Wats.)
- Oeder.** Georg Christian Oeder, 1728-1791. Germany. Author of works on the plants of Denmark and Norway.

- O. F. Müller.** Otto Friedrich Müller, 1730-1784. Denmark.
- Olney.** Stephen T. Olney, 1812-1878. United States. Author of a Catalogue of Rhode Island Plants; student of *Carices*.
- Otto.** Friedrich Otto, 1782-1856. Germany.
- Paine.** John Alsop Paine. United States. Author of Plants of Oneida County [New York] and Vicinity.
- Parl.** Filippo Parlatore, 1816-1877. Italy. Prof. of Botany at Florence.
- Pavon.** José Pavon, fl. about 1800. Spain.
- Pax.** Ferdinand Pax. Germany. Prof. of Botany at the University of Breslau.
- P. Br.** Patrick Browne, 1720-1790. Ireland. Author of Civil and Natural History of Jamaica.
- Pease & Moore.** Arthur Stanley Pease and Albert Hanford Moore. United States.
- Peck.** Charles Horton Peck. United States. State Botanist of New York. Author of many botanical reports, dealing chiefly with fungi.
- Pers.** Christiaan Hendrik Persoon, 1755-1837. Germany, etc. Author of Synopsis Plantarum and several works on fungi.
- Peter.** Robert Peter, b. 1805. United States. Geologist and botanist.
- Philippi.** Rudolph Amandus Philippi, 1808-1904. Chile. Director of the Museum at Santiago.
- Piper.** Charles Vancouver Piper. United States. Agrostologist, U. S. Department of Agriculture. Author of a flora of the State of Washington.
- Planch.** Jules Émile Planchon, 1823-1888. France. Prof. at Montpellier.
- Poggenburg.** See BSP.
- Poir.** Jean Louis Marie Poiret, 1755-1834. France.
- Poll.** Johann Adam Pollich, 1740-1780. Germany.
- Pollard.** Charles Louis Pollard. United States. Author of many botanical articles, especially on the genus *Viola*.
- Pomel.** Nicola-Auguste Pomel, 1821-1898. France.
- Porter.** Thomas Conrad Porter, 1822-1901. United States. Prof. of Natural Sciences at Lafayette College. Author of Botany of Pennsylvania, etc.
- Prantl.** Karl Anton Eugen Prantl, 1849-1893. Germany. Prof. at Breslau.
- Presl.** Karel Boriwog Presl, 1794-1852. Bohemia. Prof. at Prague.

- Prince.** William Robert Prince, 1795-1869. United States. Horticulturist.
- Pursh.** Frederick Traugott Pursh, 1774-1820. Traveled for 12 years in the United States. Author of *Flora Americae Septentrionalis*.
- Raf.** Constantino Samuel Rafinesque-Schmaltz, 1784-1842. Prof. of Natural History at Transylvania University, Kentucky. A keen, but erratic botanist.
- Raimann.** Rudolf Raimann. Austria. Prof. at Vienna.
- Rand.** Edward Lothrop Rand. United States.
- R. Br.** Robert Brown, 1773-1858. England. A distinguished botanist, author of many important works.
- Redfield.** John Howard Redfield, 1815-1895. United States. Joint author (with Rand) of a flora of Mt. Desert.
- Regel.** Eduard August von Regel, 1815-1892. Russia. Director of the Botanic Garden at St. Petersburg.
- Rehder.** Alfred Rehder. United States. Assistant at the Arnold Arboretum, Harvard University.
- Reichard.** Johann Jakob Reichard, 1743-1782. Germany.
- Reichenb.** Heinrich Gottlieb Ludwig Reichenbach, 1793-1879. Germany. Prof. at Dresden.
- Rendle.** Alfred Barton Rendle. England. Keeper, Department of Botany, British Museum.
- Retz.** Anders Johan Retzius, 1742-1821. Sweden. Prof. at Lund.
- Richard.** Louis Claude Marie Richard, 1754-1821. France.
- Richards.** John Richardson, 1787-1865. England. Surgeon and naturalist with Sir John Franklin's earlier expeditions. Wrote a botanical appendix to Franklin's narrative.
- Ricker.** Percy Leroy Ricker. United States. Scientific Assistant in Taxonomy, U. S. Dept. of Agriculture.
- Riddell.** John Leonard Riddell, 1807-1867. United States. Prof. at the University of Louisiana. Author of *Synopsis of the Flora of the Western States*, *Plants of Ohio*, etc.
- Ries.** Heinrich Ries. United States. Prof. at Cornell University.
- Robbins.** James Watson Robbins, 1801-1879. United States. Collected in New England, the Lake region, Virginia and Maryland. Student of *Potamogeton*.
- Robinson.** Benjamin Lincoln Robinson. United States. Prof. of Systematic Botany and Curator of the Gray Herbarium, Harvard University. Author of many papers on the plants of North America and Mexico, a flora of the Galapagos Islands, etc.

- Robson.** Stephen Robson. England. Author of a British flora, published 1777.
- Roem.** Johann Jacob Roemer, 1763-1819. Switzerland. Prof. at Zürich.
- Rostk.** Friedrich Wilhelm Gottlieb Rostkovius, 1770-1848. Germany.
- Roth.** Albrecht Wilhelm Roth, 1757-1834. Germany.
- Rottb.** Christian Fries Rottboell, 1727-1797. Denmark. Prof. of Botany at Copenhagen.
- Rouy.** Georges-C.-Ch. Rouy. France.
- Roxb.** William Roxburgh, 1759-1815. India. Director of the Botanic Garden at Calcutta. Wrote on plants of India.
- Rudge.** Edward Rudge, 1763-1846. England.
- Ruiz.** Hipolito Ruiz, 1754-1815. Spain. Joint author (with Pavon) of a flora of Peru and Chile.
- Rupr., Ruprecht.** Franz J. Ruprecht, 1814-1870. Russia. Curator of the Herbarium of the Imperial Academy of Sciences, St. Petersburg.
- Rusby.** Henry Hurd Rusby. United States. Prof., Department of Pharmacy, Columbia University.
- Rydb.** Per Axel Rydberg. United States. Curator, New York Botanical Garden. Author of several monographs, floras of Montana and Colorado, etc.
- Salisb.** Richard Anthony Salisbury, 1761-1829. England.
- Sarg.** Charles Sprague Sargent. United States. Prof. of Arboriculture and Director of the Arnold Arboretum, Harvard University. Author of *Silva* of North America, etc.
- Sartwell.** Henry Parker Sartwell, 1792-1867. United States. Student of *Carices*.
- Schk.** Christian Schkuhr, 1741-1811. Germany. Author of a work on sedges.
- Schlecht.** Diedrich Franz Leonhard von Schlechtendal, 1794-1866. Germany. Prof. at Halle.
- Schleich.** J. C. Schleicher. Author of a flora of Switzerland, 1800.
- Schleid.** Matthias Jacob Schleiden, 1804-1881. Germany.
- Schmidt.** Wilhelm Ludwig Ewald Schmidt, 1804-1843. Germany.
- Schneider.** Camillo Karl Schneider. Austria.
- Schott.** Heinrich Wilhelm Schott, 1794-1865. Austria. Director of the Imperial Garden at Schönbrunn. Author of a monograph of the *Araceae*, etc.

- Schrad.** Heinrich Adolph Schrader, 1767-1836. Germany. Prof. of Botany at Göttingen.
- Schrank.** Franz von Paula Schrank, 1747-1835. Germany. Prof. of Botany at Munich.
- Schreb.** Johann Daniel Christian von Schreber, 1739-1810. Germany.
- Schult., Schultes.** Joseph August Schultes, 1773-1831. Germany. Prof. at Landeshut.
- Schultz.** See F. Schultz.
- Schum.** Christian Friedrich Schumacher, 1757-1830. Denmark.
- Schur.** Philipp Johann Ferdinand Schur, b. 1799. Austria.
- Schwein.** Lewis David von Schweinitz, 1780-1834. United States. Student of fungi, in which department his work is of much importance, and author of monographs of *Viola* and the North American species of *Carex*.
- Scop.** Johann Anton Scopoli, 1723-1788. Italy. Prof. at Pavia.
- Scribn.** Frank Lamson-Scribner. United States. Author of many articles on grasses.
- Ser.** Nicolas Charles Seringe, 1776-1858. France. Prof. at Lyons.
- S. F. Gray.** Samuel Frederick Gray, fl. 1780-1836. England.
- Shear.** Cornelius Lott Shear. United States. Pathologist, U. S. Department of Agriculture.
- Short.** Charles Wilkins Short, 1794-1863. United States. Joint author (with Peter) of *Plants of Kentucky*.
- Shuttlw.** Robert Shuttleworth, d. 1874. England and Switzerland.
- Sibth.** John Sibthorp, 1758-1796. England. Author of a flora of Greece.
- Sieb.** Philipp Franz von Siebold, 1796-1866. Germany.
- Sims.** John Sims, 1792-1838. England. For many years editor of *Curtis' Botanical Magazine*.
- Sm., Smith.** James Edward Smith, 1759-1828. England. See also J. G. Smith.
- Small.** John Kunkel Small. United States. Curator of the Museums, New York Botanical Garden. Author of a flora of the southeastern United States, etc.
- Solms.** Herman, Graf zu Solms-Läubach. Germany. Former Prof. at the University of Strassburg.
- Sonder.** Otto Wilhelm Sonder, 1812-1888. Germany.
- Spach.** Eduard Spach, 1801-1879. France.

- Sprengr.** Kurt Polycarp Joachim Sprengel, 1766-1833. Germany. Prof. of Botany at Halle.
- Spring.** Anton François Spring, 1814-1872. Belgium. Prof. at Liège. Author of a monograph of the *Lycopodiaceae*.
- Sterns.** See BSP.
- Steud.** Ernst Gottlieb Steudel, 1783-1856. Germany.
- Stokes.** Jonathan Stokes, 1755-1831. England.
- Sudworth.** George Bishop Sudworth. United States. Chief of Dendrology, Forest Service, U. S. Dept. of Agriculture.
- Sw.** Olaf Swartz, 1760-1818. Sweden. Prof. at Stockholm. Author of a flora of the West Indies, Synopsis Filicum, etc.
- Sweet.** Robert Sweet, 1783-1835. England.
- Taubert.** Paul Hermann Wilhelm Taubert, 1862-1897. Germany.
- Tausch.** Ignaz Friedrich Tausch, b. 1848. Bohemia.
- T. Coulter.** Thomas Coulter, d. 1843. Ireland. Published a monograph of *Dipsacaceae*.
- Tenney.** Sanborn Tenney, 1827-1877. United States. Prof. at Vassar and Williams Colleges.
- Tenore.** Michele Tenore, 1780-1861. Italy. Prof. of Botany at Naples.
- Th. Durand.** Theophile Durand. Belgium. Director of the Brussels Botanic Garden.
- Thuill., Thuillier.** Jean Louis Thuillier, 1757-1822. France.
- Thunb.** Carl Peter Thunberg, 1743-1822. Sweden. Prof. of Botany at Upsala. Author of a *Flora Japonica*, etc.
- Thurb.** George Thurber, 1821-1890. United States. Botanist of the Mexican Boundary Commission. Student of Grasses.
- Todaro.** Agostino Todaro, 1818-1892. Italy. Director of the Botanic Garden at Palermo.
- Torr.** John Torrey, 1796-1873. United States. Botanist and chemist. Author of a flora of New York, a monograph of the North American *Cyperaceae*, etc. Joint author (with Gray) of a flora of North America.
- Tratt.** Leopold Trattinick, 1764-1849. Austria. Curator at the Herbarium in Vienna.
- Trev.** Christian Ludolf Treviranus, 1779-1864. Germany. Prof. of Botany at Bonn.
- Trevisan.** Vittore, Conte Trevisan, b. 1818. Italy.
- Trin.** Karl Bernhard Trinius, 1778-1844. Russia. Writer on grasses.

- Tuckerm.** Edward Tuckerman, 1817-1886. United States. Prof. of Botany at Amherst College. Author of papers on *Carex* and *Potamogeton*, a catalogue of plants of the vicinity of Amherst College, works on lichens, etc.
- U. & B.** Edwin B. Uline and William L. Bray. United States. Authors of a monograph of North American *Amaranthaceae*.
- Underw.** Lucien Marcus Underwood, 1853-1907. United States. Prof. at Columbia University. Author of *Our Native Ferns*, and articles on ferns and *Hepaticae*.
- Vahl.** Martin Vahl, 1749-1804. Denmark. Prof. of Botany at Copenhagen.
- Vail.** (Miss) Anna Murray Vail. United States.
- Vasey.** George Vasey, 1822-1893. United States. Botanist, U. S. Dept. of Agriculture. Wrote on grasses.
- Vent.** Étienne Pierre Ventenat, 1757-1808. France.
- Vill.** Dominique Villars, 1745-1814. France.
- Wahlenb.** Georg Wahlenberg, 1781-1851. Sweden. Prof. at Upsala.
- Wallr.** Karl Friedrich Wilhelm Wallroth, 1792-1857. Germany.
- Walp.** Wilhelm Gerhard Walpers, 1816-1853. Germany.
- Walt.** Thomas Walter, d. 1788. United States. Author of *Flora Caroliniana*.
- W. & K.** Franz Adam, Graf von Waldstein, 1759-1823, and Paul Kitaibel, 1757-1817. Austria. Authors of a work on the plants of Hungary.
- Wang.** Friedrich Adam Julius von Wangenheim, 1747-1800. Germany. Author of works on North American trees and shrubs.
- Wats.** Sereno Watson, 1826-1892. United States. Prof. and Curator of the Gray Herbarium at Harvard University. Author of a *Bibliographical Index to North American Botany*, and of many articles dealing mostly with the flora of the western United States and Mexico.
- Watt.** David Allan Poe Watt. Canada.
- W. Boott.** William Boott, 1805-1887. United States. Collector; student of grasses and sedges.
- W. Curtis.** See Curtis.
- Weber.** Georg Heinrich Weber, 1752-1828. Germany. Prof. of Botany at Kiel.
- Weinm.** J. A. Weinmann, 1782-1858. Russia.



- Wenderoth.** Georg Wilhelm Franz Wenderoth, 1774-1861. Germany. Prof. of Botany at Marburg.
- Wendl., Wendland.** Johann Christoph Wendland, 1755-1828. Germany.
- Wettst.** Richard Wettstein. Austria. Prof. and Director of the Botanic Garden at Vienna.
- Wibel.** August Wilhelm Eberhard Christoph Wibel, 1775-1814. Germany.
- Wiegand.** Karl McKay Wiegand. United States. Associate Prof. of Botany, Wellesley College.
- Wiggers.** Heinrich August Ludwig Wiggers, 1803-1880. Germany.
- Willd.** Karl Ludwig Willdenow, 1765-1812. Germany. Prof. of Botany at Berlin.
- Wimmer.** Friedrich Wimmer, 1803-1868. Germany.
- Witasek.** (Frl.) Johanna Witasek. Austria.
- With.** William Withering, 1741-1799. England.
- Wood.** Alphonso Wood, 1810-1881. United States. Author of botanical text-books, and of a flora of the Northeastern States.
- Woodv.** William Woodville, 1748(?) - 1805. England.
- Wright.** See C. Wright.
- Wulf.** Franz Xavier Wulfen, 1728-1805. Austria. Prof. at Klagenfurt.
- Zucc.** Joseph Gerhard Zuccarini, 1797-1848. Germany. Prof. of Botany at Munich.



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\* In this index, synonyms and names of species previously reported from Connecticut but excluded from the present catalogue, are printed in italics.

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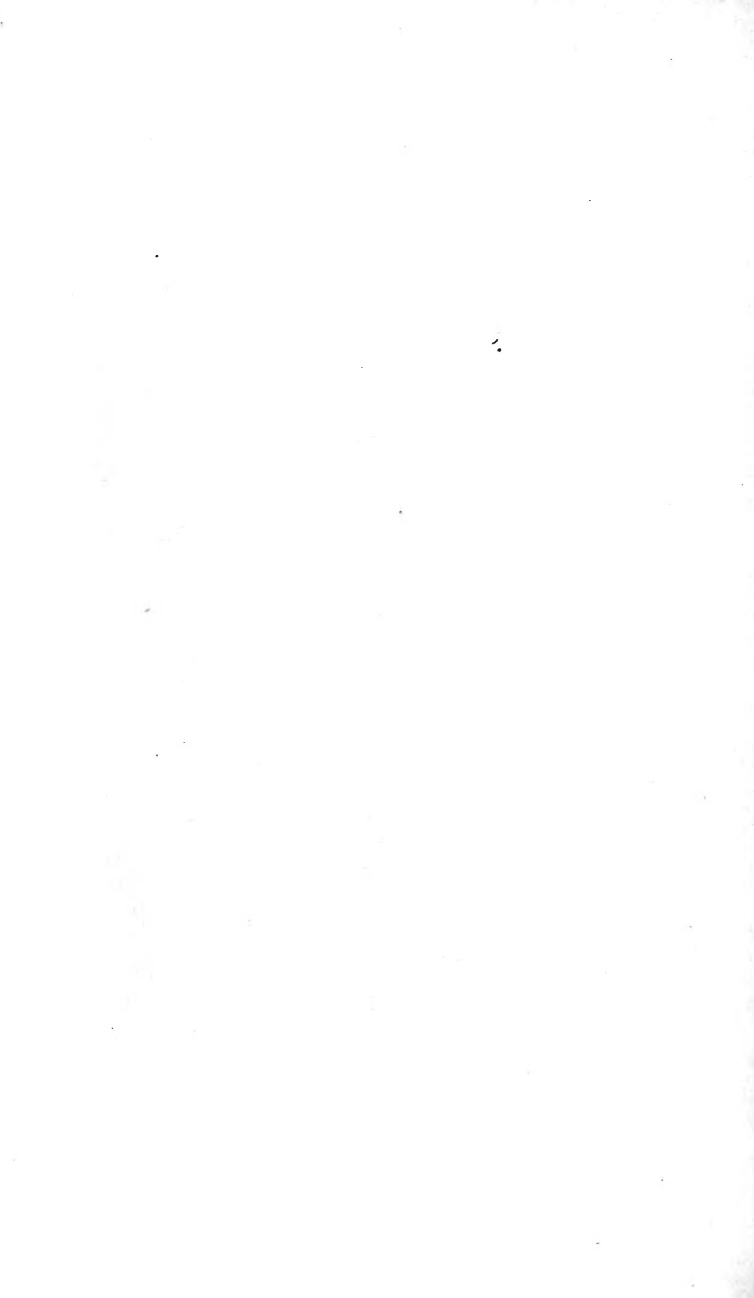
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