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Bulletin No. 6: Check List of Woody Plants Growing in the Connecticut Arboretum and Guide to the Arboretum

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CHECK LIST OF WOODY PLANTS
GROWING IN THE CONNECTICUT ARBORETUM
AND GUIDE TO THE ARBORETUM

RICHARD H. GOODWIN, KATHERINE H. HEINIG
AND KALEB P. JANSSON



CONNECTICUT ARBORETUM
CONNECTICUT COLLEGE
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INTRODUCTION

One of the chief objectives of the Connecticut Arboretum has been to assemble a collection of all the species of woody plants native to the northeastern United States which can be grown in the New London area. This check list represents a report of progress toward this objective. It is hoped that it will serve the visitor and student of the local flora as a guide to the Arboretum and its collections.

The map on page 16 shows the main Arboretum Tract and its various extensions and the Caroline Black Botanical Garden in relation to the Connecticut College campus. The more detailed map of the main Arboretum Tract on page 32, shows the layout of the paths and trails. The planted areas have been numbered to assist in the location of specimens.

In this check list will be found all woody species known to occur naturally within the Arboretum, including adventives established at the time of the founding of the Arboretum in 1931 and native species which have been introduced into the area. The locations in the main Arboretum Tract where each species may be found are indicated by numbers referring to specific areas on the map (page 32). The distributions of some of the commoner species native to the woodland are not given. No attempt has been made to list the large number of ornamental trees and shrubs growing on the College campus and in the Caroline Black Botanic Garden, but native and ornamental species in certain genera have been included, and their locations noted. The few exotic species which are found in the Arboretum are listed and their natural range is given.

The plants in the check list have been grouped by families and genera according to the arrangement followed in the eighth edition

of *Gray's Manual*.¹ Species are arranged alphabetically within the genus. The taxonomic treatment is that of *Gray's Manual*, with the exception of the genus *Rubus*, which follows Bailey's treatment in the *Gentes Herbarium*.² For ornamental species not included in *Gray's Manual*, the nomenclature of the second edition of Rehder's *Manual of Cultivated Trees and Shrubs*³ is followed. In cases where the nomenclature in *Gray's Manual* differs from that found in Rehder's *Manual*, the synonyms appearing in Rehder's *Manual* are given in parentheses.

There are now at least 63 different clones of brambles (*Rubus*) growing in the Arboretum. Most of these have been collected in Connecticut and adjacent Rhode Island by Mr. K. P. Jansson, and specimens from each clone have been identified by Dr. Liberty Hyde Bailey. Dr. Katherine H. Heinig is now undertaking a cytological study of this collection.

Over 29 species of goldenrod (*Solidago*) have been introduced into the Arboretum. Since this collection of perennials may be of special interest to visitors, these species, as well as those native to the Arboretum, are listed.

At the end of the check list will be found an abbreviated index to common names. To find the page on which oaks or maples are listed, look up "oak" or "maple". The specific kinds of trees (e.g. "red oak" and "sugar maple") are not listed.

Grants from the Connecticut Geological and Natural History Survey to support the collection, identification and study of the woody plants native to Connecticut are hereby gratefully acknowledged.

¹Fernald, M. L., *Gray's Manual of Botany*, eighth edition. pp. 1-1632. American Book Co., New York. 1950.

²Bailey, L. H., *Rubus in North America*. Gentes Herbarium, volume 5, 1945.

³Rehder, A., *Manual of Cultivated Trees and Shrubs*, second edition. pp. 1-996. Macmillan Co., New York. 1947.

GINKGOACEAE

Ginkgo biloba L. GINKGO OR MAIDENHAIR TREE. 42a. Introduced from Asia; widely cultivated.

TAXACEAE

Taxus canadensis Marsh. AMERICAN YEW OR GROUND HEMLOCK. 16, 36; also growing in the ravine near the brook below the highest ledges.

PINACEAE

Abies balsamea (L.) Mill. BALSAM FIR. 1b, 10, 44, 50.

Pseudotsuga taxifolia (Poir.) Brit. DOUGLAS FIR. 22, 44. Introduced into the Arboretum. Native to western North America.

Tsuga canadensis (L.) Carr. COMMON HEMLOCK. Native in the Arboretum woodland; planted around the outdoor theatre and elsewhere.

Picea Abies (L.) Karst. NORWAY SPRUCE. 10. Introduced from Europe as an ornamental. Has become naturalized in various parts of Conn.

Picea glauca (Moench) Voss. WHITE OR CAT SPRUCE. 1a, 22, 44. Introduced into the Arboretum. Native to northern New England and the Northwest.

Picea rubens Sarg. RED SPRUCE. 1b.

Larix decidua Mill. EUROPEAN LARCH. 20; also on the campus in front of the library. An escape from cultivation in some parts of Conn.

Larix laricina (DuRoi) K. Koch. AMERICAN OR BLACK LARCH, TAMARACK, HACKMATAK. 1b, 20, 50.

Pinus echinata Mill. YELLOW OR SHORT-LEAF PINE. 16 (nursery). Introduced into the Arboretum from N. J. Native N. Y. and southward.

Pinus Mugo Turra. MOUNTAIN PINE. Caroline Black Botanic Garden. Ornamental introduced from central Europe.

Pinus resinosa Ait. RED OR NORWAY PINE. 3, 8, 11, 12, 15, 30, 31, 33a, b, c, 35, 45. The stand beside the lake at 33 was planted in 1931.

Pinus rigida Mill. PITCH PINE. 1a, 2, 45.

Pinus Strobus L. WHITE PINE. Planted as stands at 15, 23, 41, 42a, 43, 45a, and in various of the Arboretum extensions. Scattered specimens at 24, 37, 40, 52.

Pinus sylvestris L. SCOTCH PINE. 10. Introduced from Europe; now naturalized in eastern North America.

Taxodium distichum (L.) Richard. BALD CYPRESS. 17, 38. Introduced into the Arboretum. Native Del. to Fla., westward to southern Ill. and La.

Thuja occidentalis L. AMERICAN ARBOR VITAE. 1b, 36, 37.

Chamaecyparis thyoides (L.) BSP. WHITE CEDAR. 1b, 16, 31, 49 (edge of lake), 50.

Juniperus communis L. COMMON JUNIPER. 8, 42b.

Juniperus communis var. **depressa** Pursh. PROSTRATE JUNIPER. 37, 43.

Juniperus virginiana L. RED CEDAR. 7, 8, 30, 31, 42b; a handsome old specimen at 21.

LILIACEAE

Smilax glauca Walt. CATBRIER, SAWBRIER, WILD SARSAPARILLA. A common weed.

Smilax rotundifolia L. HORSEBRIER, BULLBRIER, OR COMMON GREEN BRIER. A common weed.

SALICACEAE

Salix alba L. WHITE WILLOW. 54 (at eastern end of the dam). Naturalized from Europe.

Salix babylonica L. WEEPING WILLOW. 34. Ornamental introduced from Eurasia; locally naturalized from Que. to Ont., southward.

Salix Bebbiana Sarg. LONG-BEAKED WILLOW. 39, 40.

Salix candida Flügge. HOARY WILLOW. 39.

Salix cordata Michx. 39, 40; native in the Arboretum.

Salix discolor Muhl. LARGE PUSSY WILLOW. 39.

Salix discolor var. **latifolia** Anderss. 1c.

Salix humilis Marsh. PRAIRIE OR GRAY WILLOW. 40.

Salix humilis var. **microphylla** (Anderss.) Fern. (*S. tristis* Ait.). DWARF GRAY OR SAGE WILLOW. 16, 24, 27.

× **Salix myricoides** (Muhl.) Carey. (A hybrid between *S. rigida* Muhl. and *S. sericea* Marsh.). (*S. cordata* Muhl. × *S. sericea* Marsh.). 39.

Salix nigra Marsh. BLACK WILLOW. 39.

Salix nigra Marsh var. **falcata** (Pursh). Torr. 39.

Salix pentandra L. BAY WILLOW. 41. Adventive from Europe.

Salix purpurea L. PURPLE OSIER OR BASKET WILLOW. 34.

Salix sericea Marsh. SILKY WILLOW. 39.

Populus alba L. WHITE POPLAR OR ABELE. 1c, 45a. Naturalized from Europe.

Populus candicans Ait. BALM OF GILEAD. 1b. Origin unknown. Occasionally naturalized in Conn.

Populus deltoides Marsh. NORTHERN COTTONWOOD. 1c, 27.

Populus grandidentata Michx. LARGE-TOOTHED ASPEN. 1c.

Populus heterophylla L. SWAMP OR BLACK COTTONWOOD OR DOWNY POPLAR. 1c.

Populus nigra L. BLACK POPLAR. 1c. Introduced from Europe.

Populus tremuloides Michx. QUAKING ASPEN. Native in the Arboretum.

MYRICACEAE

Myrica Gale L. SWEET GALE. 48.

Myrica pennsylvanica Loisel. BAYBERRY OR CANDLEBERRY. 14; native in the Arboretum.

Comptonia peregrina (L.) Coult. SWEET FERN. 1a, 1c, 25; native in the Arboretum.

JUGLANDACEAE

Juglans cinerea L. BUTTERNUT OR WHITE WALNUT. 46.

Juglans nigra L. BLACK WALNUT. 46.

Juglans regia L. ENGLISH OR PERSIAN WALNUT. Campus, west of New London Hall. Introduced from Asia.

Carya cordiformis (Wangh.) K. Koch. BITTERNUT OR SWAMP HICKORY. 46.

Carya glabra (Mill.) Sweet. PIGNUT. Native in the Arboretum.

Carya ovata (Mill.) K. Koch. SHAGBARK OR SHELLBARK HICKORY. Native in the Arboretum.

Carya tomentosa (Lam.) Nutt. MOCKERNUT OR WHITE-HEART HICKORY. 55; native in the Arboretum woodland.

CORYLACEAE

Corylus americana Walt. AMERICAN HAZELNUT. 1b, 5.

Corylus cornuta Marsh. BEAKED HAZELNUT. 1b.

Ostrya virginiana (Mill.) K. Koch. AMERICAN HOP-HORNBEAM. 1a.

Carpinus caroliniana Walt. AMERICAN HORNBEAM, BLUE OR WATER BEECH. 1a, 10.

Betula coerulea-grandis Blanch. BLUE BIRCH. 1a. Introduced into the Arboretum. Native from N. S. to Que., south to Vt. and N. H.

Betula lenta L. BLACK, CHERRY, OR SWEET BIRCH. 16, 29; native in the Arboretum woodland.

Betula lutea Michx. f. var. **macrolepis** Fern. YELLOW OR GRAY BIRCH. Native in the Arboretum woodland.

Betula nigra L. RIVER OR RED BIRCH. 1a.

Betula papyrifera Marsh. PAPER, CANOE, OR WHITE BIRCH. Campus, north of Knowlton House.

Betula pendula Blanch. var. **viscosa** (Bean) Rehder. 1a. Introduced into the Arboretum. This is a variety of the European Birch.

Betula populifolia Marsh. GRAY, WHITE, OR FIRE BIRCH. Native in the Arboretum.

Alnus crispa (Ait.) Pursh. AMERICAN GREEN OR MOUNTAIN ALDER. 1c. Introduced into the Arboretum. Native N. H. and northward.

Alnus crispa var. **mollis** Fern. DOWNY GREEN ALDER. 1b, 1c. Introduced into the Arboretum. Native from N. H. southward.

Alnus rugosa (Du Roi). Spreng. SPECKLED ALDER.

Alnus rugosa forma **Emersoniana** Fern. 1c.

Alnus rugosa forma **hypomalacea** Fern. 1c.

Alnus serrulata (Ait.) Willd. COMMON ALDER. 1c; native in the Arboretum.

Alnus serrulata forma **noveboracensis** (Britt.) Fern. 1c.

FAGACEAE

Fagus grandifolia Ehrh. AMERICAN BEECH. 7, 8, 9, 29; native in the Arboretum woodland.

Castanea dentata (Marsh.) Borkh. AMERICAN CHESTNUT. Native in the Arboretum. All specimens reduced to suckers by the chestnut blight.

Castanea mollissima Blume. CHINESE CHESTNUT. 14. Introduced from the A. H. Graves plantation at Mt. Carmel, Conn. Native to China.

Castanea dentata (Marsh.) Borkh. × **C. mollissima** Blume F₂. 14. This is an F₂ hybrid introduced from the A. H. Graves plantation at Mt. Carmel, Conn.

Quercus alba L. WHITE OAK. 37, 44, 53; native in the Arboretum; common.

× **Quercus Bebbiana** Schneid. (A hybrid between *Q. macrocarpa* Michx. and *Q. alba* L.). 16.

Quercus bicolor Willd. SWAMP WHITE OAK. 15, 20, 21.

Quercus coccinea Muenchh. SCARLET OAK. 12, 47; native in the Arboretum.

Quercus ilicifolia Wang. BEAR OR BLACK SCRUB OAK. 11, 15, 16, 20, 43.

Quercus macrocarpa Michx. BURR OR MOSSY-CUP OAK. 14, 15.

Quercus marilandica Muenchh. BLACK JACK OAK. 16. Introduced into the Arboretum from N. J. Native N. Y. to Fla., westward to Neb. and Tex.

- Quercus palustris** Muenchh. PIN OAK. 3.
- Quercus prinoides** Willd. CHINQUAPIN OAK. 20, 22, 43.
- Quercus Prinus** L. BASKET OR CHESTNUT OAK. 17 (at south end of the wall).
- Quercus Robur** L. ENGLISH OAK. 1b. Introduced from Europe.
- Quercus rubra** L. (*Q. borealis* Michx. f. var. *maxima* (Marsh.) Ashe). RED OAK. 23; apparently native in the Arboretum.
- Quercus stellata** Wang. POST OAK. 16.
- × **Quercus stelloides** E. J. Palmer. (A hybrid between *Q. prinoides* Willd. and *Q. stellata* Wang.). 1b.
- Quercus velutina** Lam. BLACK OAK. Native in the Arboretum; common.

ULMACEAE

- Ulmus alata** Michx. WAHOO OR WINGED ELM. 27. Adventive in Conn.; native from Va. to Fla., westward to Ill. and Tex.
- Ulmus americana** L. AMERICAN OR WHITE ELM. 2, 8, 11; native in the Arboretum.
- Ulmus rubra** Muhl. (*Ulmus fulva* Michx.). SLIPPERY ELM. 29; in highway planting on Mohegan Ave. opposite the President's house.
- Celtis occidentalis** L. HACKBERRY. Large specimen at 16; also a very large tree on the campus near Mohegan Ave. below the Auditorium.
- Celtis occidentalis** var. **pumila** (Pursh) Gray (*C. pumila* Pursh). DWARF HACKBERRY. 1b.

MORACEAE

- Morus alba** L. WHITE MULBERRY. 16. Introduced from the old world; now naturalized.

RANUNCULACEAE

- Clematis verticillaris** DC. PURPLE CLEMATIS. 9.
- Clematis virginiana** L. WILD CLEMATIS. Native in the Arboretum woodland.
- Xanthorhiza simplicissima** Marsh. SHRUB YELLOW ROOT. 7. Introduced into the Arboretum. Native from Pa. and N. Y. southward to Ky. and Ga.

BERBERIDACEAE

- Berberis Thunbergii** DC. JAPANESE BARBERRY. 1b, 9. Naturalized from Asia.
- Berberis vulgaris** L. COMMON BARBERRY. 25, 31. Naturalized from Europe.

MENISPERMACEAE

- Menispermum canadense** L. MOONSEED. 9.

MAGNOLIACEAE

- Magnolia virginiana** L. SWEET BAY. 31, 32.
- Liriodendron Tulipifera** L. TULIP TREE. 1b, 9, 31, 32, 33a, 40. A very large specimen at 31, just south of the laurel walk.

CALYCANTHACEAE

- Calycanthus floridus** L. CAROLINA ALLSPICE. 7. Introduced into the Arboretum. Native from Va. and W. Va., southward.

LAURACEAE

- Sassafras albidum** (Nutt.) Nees. SASSAFRAS. 1b, 15, 35, 36, 42, etc.; native to the Arboretum; common.
- Lindera Benzoin** (L.) Blume. SPICE BUSH, BENJAMIN BUSH. 39; native in the Arboretum woodland; common.

SAXIFRAGACEAE

Philadelphus inodorus L. MOCK ORANGE OR SYRINGA. 16, 28.
Adventive from the South.

Philadelphus inodorus var. **grandiflorus** (Willd.) Gray (*P. grandiflorus* Willd.). 16. Introduced into the Arboretum. Native from Va. to Fla.

Hydrangea arborescens L. WILD HYDRANGEA. 32. Introduced into the Arboretum from the Delaware Water Gap, Pa. Native from southern N. Y. to Fla., westward to Ia. and Mo.

HAMAMELIDACEAE

Hamamelis virginiana L. WITCH HAZEL. Native in the Arboretum woodland; common.

Liquidambar styraciflua L. SWEET GUM. 10, 16.

PLATANACEAE

Platanus occidentalis L. SYCAMORE, BUTTONWOOD, OR AMERICAN PLANE TREE. 1b, 16, 25.

ROSACEAE

Physocarpus opulifolius (L.) Maxim. NINEBARK. 2, 4.

Spiraea latifolia Borkh. MEADOW-SWEET. 4, 10.

Spiraea tomentosa L. HARDHACK OR STEEPLE BUSH. 2, 10; native in the Arboretum.

Pyrus americana (Marsh.) DC. (*Sorbus americana* Marsh.). AMERICAN MOUNTAIN ASH. 5.

Pyrus arbutifolia (L.) L. f. (*Aronia arbutifolia* (L.) Elliot). RED CHOKEBERRY. 5.

Pyrus Aucuparia (L.) Gaertn. (*Sorbus Aucuparia* L.). EUROPEAN MOUNTAIN ASH OR ROWAN. Campus, south of the power house; Caroline Black Botanic Garden.

Pyrus floribunda Lindl. (*Aronia prunifolia* (Marsh.) Rehd.; *Pyrus arbutifolia* (L.) L. f. var. *atropurpurea* Robins.). PURPLE CHOKEBERRY. 5.

Pyrus Malus L. (*Malus pumila* Mill.). COMMON APPLE. 43. This European species is the original parent of most of our cultivated species. Often found in woods as an escape from cultivation.

Pyrus melanocarpa (Michx.) Willd. (*Aronia melanocarpa* (Michx.) Elliot). BLACK CHOKEBERRY. 5.

Amelanchier alnifolia Nutt. SHADBUSH. 10. Introduced into the Arboretum. Native from Sask. to Colo. and Ida.

Amelanchier canadensis (L.) Medic. (*A. oblongifolia* T. & G.). SHADBUSH. 2; native in the Arboretum.

Amelanchier intermedia Spach. SHADBUSH. 4, 24.

Amelanchier laevis Wieg. SHADBUSH. 4, 24.

Amelanchier obovalis (Michx.) Ashe. SHADBUSH. 2.

Amelanchier sanguinea (Pursh) DC. SHADBUSH. 4.

Amelanchier stolonifera Wieg. SHADBUSH. 2.

Amelanchier stolonifera forma **micropetala** (Robins.) Rehd. 2.

Crataegus arnoldiana Sarg. ARNOLD'S THORN. 4.

Crataegus Canbyi Sarg. 12, 13, 15.

Crataegus chrysocarpa Ashe. 4.

Crataegus chrysocarpa var. **phoenicea** Palmer. 12, 13; native in the Arboretum.

Crataegus coccinioides Ashe. 11. Introduced into the Arboretum from the Boyce Thompson Institute. Native from Mo. to Ind. and Kans.

Crataegus crus-galli L. COCKSPUR THORN. 4.

Crataegus dilatata Sarg. 11.

Crataegus Douglasii Lindl. 15. Introduced into the Arboretum from the Boyce Thompson Institute. Native from B. C. and northern Cal. to Mich. and Wyo.

Crataegus Holmesiana Ashe. 15.

Crataegus macrosperma Ashe. 4.

Crataegus macrosperma var. **acutiloba** (Sarg.) Egglest. 11, 15.

Crataegus mollis (T. & G.) Scheele. Red Haw. 6, 11, 15.

Crataegus monogyna Jacq. ENGLISH HAWTHORN. 4, 13, 15. Introduced into the Arboretum. Adventive from Europe.

Crataegus Phaenopyrum (L. f.) Medic. WASHINGTON THORN. 12, 13, 15. Introduced into the Arboretum from the Boyce Thompson Institute. Native from Va. to Ala. and Mo.

Crataegus pruinosa (Wendl.) K. Koch. 4.

Crataegus punctata Jacq. 11, 13.

Crataegus uniflora Muenchh. 15. Introduced into the Arboretum from the Boyce Thompson Institute. Native from Va. to Fla. and eastern Tex.

Crataegus viridis L. 4. Introduced into the Arboretum from the Boyce Thompson Institute. Native from Md. and Va. to Ill., Ia., Tex. and Fla.

Potentilla fruticosa L. SHRUBBY CINQUEFOIL. 5, 40.

Rubus alius Bailey. 5 (*Rubus* bed).

Rubus allegheniensis Porter. 5 (*Rubus* bed); native in the Arboretum.

Rubus allegheniensis var. **neoscoticus** Bailey. 5 (*Rubus* bed).

Rubus Andrewsianus Blanch. 5 (*Rubus* bed).

Rubus apparatus Bailey. 5 (*Rubus* bed).

Rubus aptatus Bailey. 5 (*Rubus* bed).

Rubus ascendens Blanch. 5 (*Rubus* bed).

Rubus avipes Bailey. 5 (*Rubus* bed).

Rubus Baileyanus Britton. 5 (*Rubus* bed).

Rubus bifrons Vest. 5 (*Rubus* bed).

Rubus Bigelovianus Bailey. 5 (*Rubus* bed).

Rubus brevipedalis Bailey. 5 (*Rubus* bed).

Rubus caesius L. 5 (*Rubus* bed).

Rubus cuneifolius Pursh. 5 (*Rubus* bed).

Rubus cuneifolius var. **spiniceps** Bailey. 5 (*Rubus* bed).

Rubus Deaneanus Bailey. 5 (*Rubus* bed).

Rubus facetus Bailey. 5 (*Rubus* bed).

Rubus flagellaris Willd. 5 (*Rubus* bed); also native in the Arboretum.

Rubus floricomus Blanch. 5 (*Rubus* bed).

Rubus geophilus Blanch. 5 (*Rubus* bed).

Rubus gnarus Bailey. 5 (*Rubus* bed).

Rubus Gravesii (Fern.) Bailey. 5 (*Rubus* bed).

Rubus Groutianus Blanch. 5 (*Rubus* bed).

Rubus hispidus L. 5 (*Rubus* bed); native in the Arboretum.

Rubus honorus Bailey. 5 (*Rubus* bed).

Rubus idaeus L. EUROPEAN RED RASPBERRY. 5 (*Rubus* bed).

Rubus insons Bailey. 5 (*Rubus* bed).

Rubus insulanus Bailey. 5 (*Rubus* bed).

Rubus Janssonii Bailey. 5 (*Rubus* bed).

Rubus licitus Bailey. 5 (*Rubus* bed).

Rubus manissesensis Bailey. 5 (*Rubus* bed).

Rubus multiformis Blanch. 5 (*Rubus* bed).

Rubus multispinus Blanch. 5 (*Rubus* bed); also native in the Arboretum.

Rubus neohantoniensis Bailey. 5 (*Rubus* bed).

Rubus notatus Bailey var. **ortus** Bailey. 5 (*Rubus* bed).

Rubus novanglicus Bailey. 5 (*Rubus* bed).

Rubus obsessus Bailey. 5 (*Rubus* bed).

Rubus occidentalis L. BLACK RASPBERRY OR THIMBLEBERRY. 5 (*Rubus* bed).

Rubus odoratus L. PURPLE-FLOWERING RASPBERRY. 5 (*Rubus* bed).

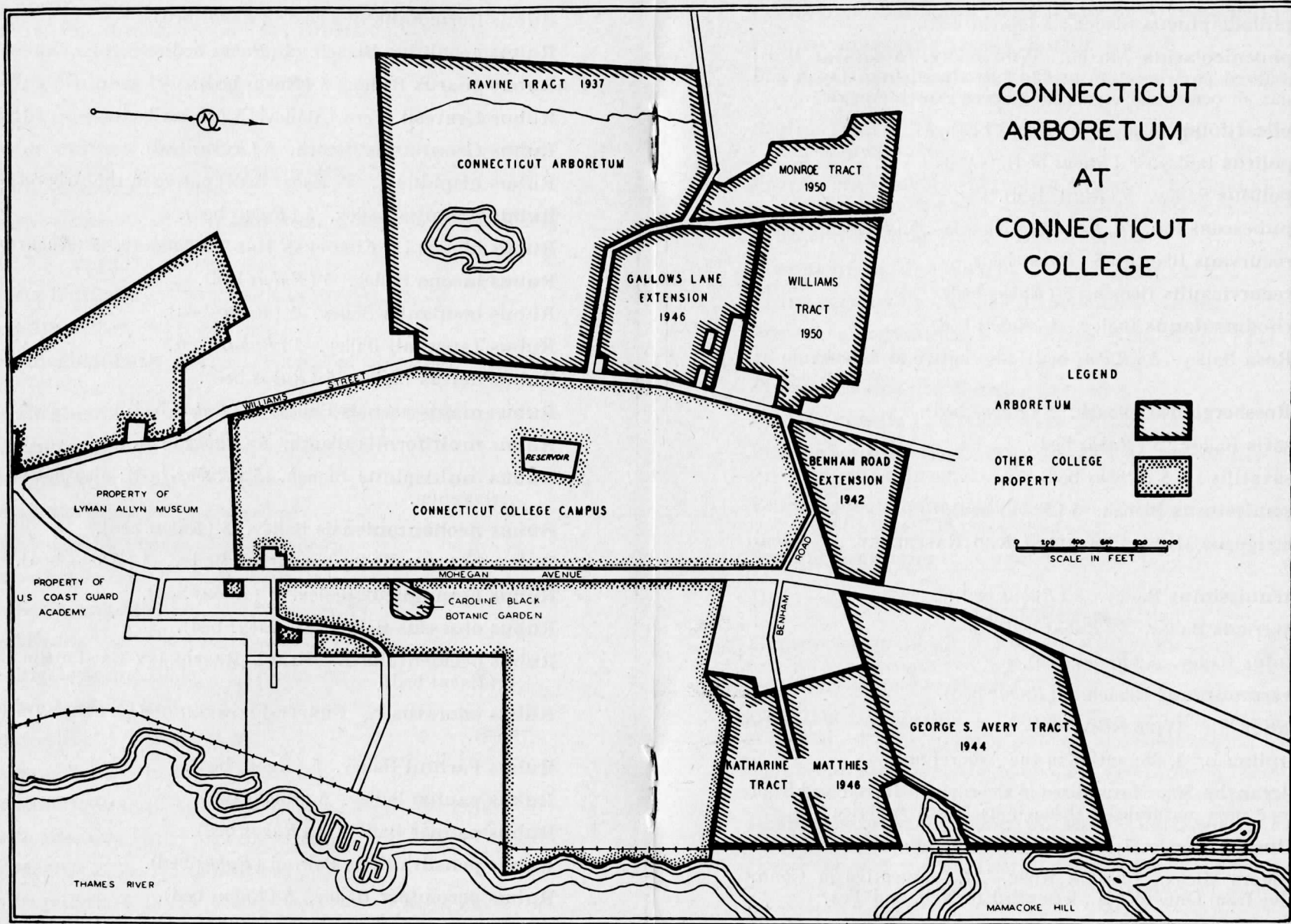
Rubus Parlinii Bailey. 5 (*Rubus* bed).

Rubus paulus Bailey. 5 (*Rubus* bed).

Rubus pauper Bailey. 5 (*Rubus* bed).

Rubus pensilvanicus Poir. 5 (*Rubus* bed).

Rubus perpauper Bailey. 5 (*Rubus* bed).



- Rubus philadelphicus** Blanch. 5 (*Rubus* bed).
- Rubus phoenicolasius** Maxim. WINEBERRY. 5 (*Rubus* bed); naturalized in Arboretum at 32. Introduced from Japan and China; an occasional escape in eastern North America.
- Rubus plicatifolius** Blanch. 5 (*Rubus* bed).
- Rubus politus** Bailey. 5 (*Rubus* bed).
- Rubus polulus** Bailey. 5 (*Rubus* bed).
- Rubus pubescens** Raf. (*R. triflorus* Richards.). 5 (*Rubus* bed), 32.
- Rubus recurvans** Blanch. 5 (*Rubus* bed).
- Rubus recurvicaulis** Blanch. 5 (*Rubus* bed).
- Rubus rhodinsulanus** Bailey. 5 (*Rubus* bed).
- Rubus Rosa** Bailey. 5 (*Rubus* bed); also native in Arboretum at 42.
- Rubus Rossbergianus** Blanch. 5 (*Rubus* bed).
- Rubus satis** Bailey. 5 (*Rubus* bed).
- Rubus saxatilis** L. 5 (*Rubus* bed).
- Rubus semisetosus** Blanch. 5 (*Rubus* bed).
- Rubus strigosus** Michx. AMERICAN RED RASPBERRY. 5 (*Rubus* bed).
- Rubus tenuissimus** Bailey. 5 (*Rubus* bed).
- Rubus tetricus** Bailey. 5 (*Rubus* bed).
- Rubus udus** Bailey. 5 (*Rubus* bed).
- Rubus vermontanus** Blanch. 5 (*Rubus* bed).
- Rosa blanda** Ait. WILD ROSE. 2.
- Rosa carolina** L. 2, 38; native in the Arboretum.
- Rosa micrantha** Sm. Naturalized in the ravine. Introduced from Europe; now naturalized throughout North America.
- Rosa palustris** Marsh. 2; native in the Arboretum.
- Rosa setigera** Michx. PRAIRIE ROSE. 11. Adventive in Conn. Native from Ont. to Fla., westward to Neb. and Tex.
- Rosa virginiana** Mill.

- Prunus alleghaniensis** Porter. SLOE OR ALLEGHANY PLUM. 4.
- Prunus americana** Marsh. WILD PLUM. 16.
- Prunus Cerasus** L. SOUR CHERRY. 9. One large specimen at this locality. Introduced from southern Europe.
- Prunus Gravesii** Small. GRAVES BEACH PLUM. 5. Native only at Groton, Conn.
- Prunus Mahaleb** L. MAHALEB CHERRY. 16. Introduced from southern Europe and spreading from cultivation.
- Prunus maritima** Marsh. BEACH PLUM. 5.
- Prunus nigra** Ait. WILD OR CANADA PLUM. 4, 5.
- Prunus padus** L. Caroline Black Botanic Garden.
- Prunus pensylvanica** L. f. WILD RED, BIRD, FIRE, OR PIN CHERRY. 1b, 6.
- Prunus Persica** (L.) Batsch. PEACH. 3.
- Prunus pumila** L. DWARF SAND CHERRY. 4.
- Prunus serotina** Ehrh. WILD BLACK CHERRY. Native in the Arboretum; common.
- Prunus susquehanae** Willd. (*Prunus pumila* L. var. *susquehanae* (Willd.) Jaeg.). SAND CHERRY. 5.
- Prunus virginiana** L. CHOKE CHERRY. 1a, 5.

LEGUMINOSAE

- Gymnocladus dioica** (L.) Koch. KENTUCKY COFFEE TREE. 24. Introduced into the Arboretum. Native from western N. Y., westward and southward.
- Gleditsia triacanthos** L. HONEY LOCUST. 42b. Naturalized in Conn. Native from Pa. to Neb. and southward.
- Cercis canadensis** L. REDBUD. 24. Adventive in Conn. Native from N. J. to northern Fla., westward to Mo. and Tex.
- Cladrastis lutea** (Michx. f.) K. Koch. YELLOWWOOD. Caroline Black Botanic Garden; campus, south of Mary Harkness House and east of East House. Native southern Ind., Ill., and southward; spreading from cultivation in some northern states.

Cytisus scoparius (L.) Link. SCOTCH BROOM. 16. Adventive from Europe.

Amorpha fruticosa L. FALSE OR BASTARD INDIGO. 16, 42b.

Robinia Pseudo-Acacia L. BLACK LOCUST OR FALSE ACACIA. 1b, 16, 43. Naturalized in Conn. Native from Pa. to Ga., westward to Ia., Mo., and Okla.

Robinia viscosa Vent. CLAMMY LOCUST. 24. Naturalized in Conn. Native from N. C. to Ala.

Wisteria macrostachya Nutt. 15 (planted on the wall of the picnic area). Introduced into Arboretum. Native from Mo. to Tenn. and Tex.

Wisteria sinensis Sweet. CHINESE WISTERIA. Arboretum entrance. An ornamental introduced from China.

RUTACEAE

Xanthoxylum americanum Mill. NORTHERN PRICKLY ASH OR TOOTHACHE Tree. 24.

Ptelea trifoliata L. HOP TREE OR WAFER ASH. 16, 24. Adventive in Conn. Native from Ont. and N. Y. to Fla., westward to Minn.

SIMAROUBACEAE

Ailanthus altissima (Mill.) Swingle. TREE OF HEAVEN. 24; scattered through the Arboretum as an aggressive weed species. Introduced from China; widely naturalized in the eastern United States.

EMPETRACEAE

Corema Conradii Torr. CONRAD'S OR BROOM CROWBERRY. 10. Introduced into the Arboretum from Toms River, N. J. Not native to Conn., but found in sandy places on the Atlantic Coastal Plain from N. J. to Nantucket and Newfoundland.

ANACARDIACEAE

Rhus aromatica Ait. FRAGRANT SUMACH. Campus, south of Grace Smith House.

Rhus copallina L. SHINING SUMACH. 10, 11, 21, 23, 24, etc.; common.

Rhus glabra L. SMOOTH SUMACH. 11, 21, 25, etc.; common.

Rhus Toxicodendron L. POISON IVY OR POISON OAK. A weed in the Arboretum.

Rhus typhina L. STAGHORN SUMACH. 1c, 18.

Rhus typhina forma **laciniata** (Wood) Rehd. Campus, behind the library.

Rhus Vernix L. POISON SUMACH OR POISON DOGWOOD. 21, 54.

AQUIFOLIACEAE

Ilex crenata Thunb. var. **convexa** Mak. Outdoor Theatre. Introduced from cultivation.

Ilex glabra (L.) Gray. INKBERRY. 26, 28.

Ilex laevigata (Pursh) Gray. WINTERBERRY. 29, 38; native in the Monroe Tract swamp on Gallows Lane.

Ilex opaca Ait. AMERICAN HOLLY. 26.

Ilex verticillata (L.) Gray. BLACK ALDER OR WINTERBERRY. 26, 43.

Ilex verticillata var. **fastigiata** (Pursh) Gray. 29.

Ilex verticillata var. **padifolia** (Willd.) T. & G. 28, 29.

Ilex verticillata var. **tenuifolia** (Torr.) S. Wats. 28, 29.

Nemopanthis mucronata (L.) Trel. MOUNTAIN HOLLY. 29.

CELASTRACEAE

Euonymus alatus (Thunb.) Sieb. WINGED SPINDLE TREE. 17. Adventive from Asia.

Euonymus atropurpureus Jacq. BURNING BUSH OR WAHOO. 28. Adventive in Conn. Native from N. Y. to Fla., westward to Minn., Neb., Okla., and Tex.

Celastrus orbiculatus Thunb. ORIENTAL BITTERSWEET. 16, 35, 36. Ornamental introduced from the Orient.

Celastrus scandens L. AMERICAN BITTERSWEET OR WAXWORK. 1b, 27.

STAPHYLEACEAE

Staphylea trifolia L. BLADDERNUT. 24.

ACERACEAE

Acer Ginnala Maxim. SIBERIAN MAPLE. 27; campus, south of the power house. Introduced from Asia; locally established from Me. to Conn. and western N. Y.

Acer Negundo L. BOX ELDER. 16.

Acer palmatum Thunb. JAPANESE MAPLE. Campus and Caroline Black Botanic Garden.

Acer pensylvanicum L. STRIPED MAPLE OR MOOSEWOOD. 17, 21.

Acer platanoides L. NORWAY MAPLE. Campus plantings. Introduced from Europe.

Acer platanoides var. *Schwedleri* Nichols. Campus, south of the power house.

Acer Pseudo-Platanus L. SYCAMORE MAPLE. Campus plantings. Introduced from Europe.

Acer rubrum L. RED, SCARLET, OR SWAMP MAPLE. Native in the Arboretum; common. Large specimens at 31 and 32.

Acer saccharinum L. SILVER OR WHITE MAPLE. Campus, west of New London Hall.

Acer saccharum Marsh. SUGAR OR ROCK MAPLE. 19, 24 (entrance to the theatre).

Acer spicatum Lam. MOUNTAIN MAPLE. 1b, 18.

HIPPOCASTANACEAE

Aesculus Hippocastanum L. COMMON HORSE-CHESTNUT. 3 (on Williams St.), 16.

Aesculus octandra Marsh. SWEET OR YELLOW BUCKEYE. Campus, south of New London Hall.

RHAMNACEAE

Rhamnus davurica Pall. BUCKTHORN. 1c. [Introduced into the Arboretum. Native of Asia.

Ceanothus americanus L. NEW JERSEY TEA OR RED ROOT. 27.

VITACEAE

Parthenocissus quinquefolia (L.) Planch. VIRGINIA CREEPER. 9, 16; native in the Arboretum woodland.

Vitis aestivalis Michx. SUMMER OR PIGEON GRAPE. Native in the Arboretum ravine.

Vitis Labrusca L. NORTHERN FOX GRAPE. 32; native in the Arboretum woodland.

Vitis vulpina L. WINTER, CHICKEN, OR FROST GRAPE. 9, 16.

TILIACEAE

Tilia americana L. AMERICAN LINDEN OR BASSWOOD. 10, 16.

Tilia europaea L. COMMON OR EUROPEAN LINDEN. 29. Introduced from Europe. Commonly planted as a street tree.

Tilia heterophylla Vent. WHITE BASSWOOD. 29.

GUTTIFERAE

Hypericum frondosum Michx. 38. Introduced into the Arboretum. Native from S. C. and Ga. to Tenn. and Tex.

Hypericum Kalmianum L. KALM'S ST. JOHN'S-WORT. 10. Introduced into the Arboretum. Native from Que. westward to Ill. and Mich.

CISTACEAE

Hudsonia ericoides L. GOLDEN OR FALSE HEATHER. 11.

THYMELAEACEAE

Dirca palustris L. LEATHERWOOD OR WICOPY. 39.

LYTHRACEAE

Decodon verticillatus (L.) Ell. WATER WILLOW. Native in the Monroe Tract swamp on Gallows Lane.

NYSSACEAE

Nyssa sylvatica Marsh. TUPELO, PEPPERIDGE, OR BLACK GUM. 36, 37, 40, 41, etc.; native to the Arboretum.

ARALIACEAE

Aralia spinosa L. HERCULES' CLUB. Campus, behind the President's house and behind the library. Adventive in Conn. Native from southern Pa. to Fla., westward to Ia. and Tex.

CORNACEAE

Cornus alternifolia L. f. ALTERNATE-LEAVED OR PAGODA DOGWOOD. 17, 43.

Cornus Amomum Mill. SILKY CORNELL OR KINNIKINNIK. 4, 28.

Cornus canadensis L. DWARF CORNELL OR BUNCHBERRY. 31.

Cornus florida L. FLOWERING DOGWOOD. 26, 36, 41, 42a, 45a, etc.; native in the Arboretum; common.

Cornus racemosa Lam. GRAY DOGWOOD. 27.

Cornus rugosa Lam. ROUND-LEAVED DOGWOOD. 27.

Cornus stolonifera Michx. RED OSIER DOGWOOD. 10, 42b, 43.

CLETHRACEAE

Clethra alnifolia L. SWEET PEPPERBUSH. 31, 38, 48, etc.; native to the Arboretum; common.

ERICACEAE

Ledum groenlandicum Oeder. LABRADOR TEA. 50.

Rhododendron calendulaceum (Michx.) Torr. FLAME-COLORED AZALEA. 31, 33a; Outdoor Theatre. Introduced into the Arboretum. Native from southern N. Y. to Ga. and westward to Ohio and Ky.

Rhododendron canadense (L.) Torr. RHODORA. 35.

Rhododendron carolinianum Rehd. 31; Outdoor Theatre. Introduced into the Arboretum. Native to N. C.

Rhododendron catawbiense Michx. MOUNTAIN ROSEBAY. 31; Outdoor Theatre. Introduced into the Arboretum. Native from Va. to Ga.

Rhododendron maximum L. GREAT LAUREL OR ROSEBAY. 31.

Rhododendron nudiflorum (L.) Torr. PINXTER FLOWER. 31; native to the Arboretum woodland.

Rhododendron Vaseyi Gray. PINKSHELL AZALEA. Outdoor Theatre. Introduced into the Arboretum. Native to N. C.

Rhododendron viscosum (L.) Torr. CLAMMY AZALEA OR WHITE SWAMP HONEYSUCKLE. 31, 33a.

Rhododendron viscosum forma **glaucum** (Lam.) Voss. 31.

Rhododendron viscosum var. **nitidum** (Pursh) Gray. 31.

Kalmia angustifolia L. SHEEP LAUREL OR LAMBKILL. 10, 37, 52.

Kalmia latifolia L. MOUNTAIN LAUREL. 7, 8, 30, 31, 36, etc.; abundant in the Arboretum woodland.

Andromeda glaucophylla Link. BOG ROSEMARY. 51.

Pieris floribunda (Pursh) B. & H. FETTERBUSH. Outdoor Theatre. Introduced into the Arboretum. Native from Va. to Ga.

Pieris japonica (Thunb.) D. Don. Outdoor Theatre. Introduced into the Arboretum. Native to Japan.

Lyonia ligustrina (L.) DC. MALE BERRY. 48; native to the Arboretum.

Lyonia mariana (L.) D. Don. STAGGERBUSH. 31, 33a.

Leucothoë racemosa (L.) Gray. FETTERBUSH. 37.

Oxydendrum arboreum (L.) DC. SORREL TREE OR SOUR WOOD. 31, 33a, 34. Native Pa. to Fla., westward to Ind. and La.

Chamaedaphne calyculata (L.) Moench. LEATHER LEAF OR CASSANDRA. 48.

Epigaea repens L. MAYFLOWER OR TRAILING ARBUTUS. Native to the Arboretum.

Arctostaphylos Uva-ursi (L.) Spreng. var. **coactilis** Fern. & Macbr. BEARBERRY. 11.

Gaylussacia baccata (Wang.) K. Koch. COMMON OR BLACK HUCKLEBERRY. 24, 25; native to the Arboretum woodland.

Gaylussacia dumosa (Andr.) T. & G. DWARF HUCKLEBERRY. 34.

Gaylussacia frondosa (L.) T. & G. DANGLEBERRY, TANGLEBERRY, OR BLUE HUCKLEBERRY. Native to the Arboretum woodland; growing on the ledges.

Vaccinium angustifolium Ait. var. **nigrum** (Wood) Dole. LOW BUSH BLUEBERRY. 33a.

Vaccinium atrococcum (Gray) Heller. BLACK Highbush OR Downy Swamp Blueberry. 17, 18, 19, 21, 23, 24; native to the Arboretum; common.

Vaccinium corymbosum L. Highbush Blueberry. 54; native to the Arboretum.

Vaccinium vacillans Torr. Low Bush Blueberry. Native in the Arboretum woodland; growing on the ledges.

EBENACEAE

Diospyros virginiana L. Persimmon. 16.

STYRACACEAE

Halesia carolina L. Silverbell-tree. Opossum-wood. Caroline Black Botanic Garden. Native from Va. and O., southward.

Halesia monticola (Rehd.) Sarg. Silverbell-tree. Caroline Black Botanic Garden. Native from N. C. to Tenn. and Ga.

OLEACEAE

Fraxinus americana L. White Ash. 12.

Fraxinus excelsior L. European Ash. 28. Introduced from Europe.

Fraxinus nigra Marsh. Black Ash. 25.

Fraxinus pennsylvanica March. Red Ash. 16, 29.

Fraxinus pennsylvanica var. **subintegerrima** (Vahl) Fern. (*F. pennsylvanica* var. *lanceolata* (Borkh.) Sarg.). Green Ash. 27.

Fraxinus tomentosa Michx. f. Pumpkin Ash. 25. Introduced into the Arboretum. Native from western N. Y. to Mo. and southward.

Syringa vulgaris L. Common Lilac. 16. Naturalized from Europe.

Chionanthus virginicus L. Fringe Tree or Old Man's Beard. 25; Caroline Black Botanic Garden. Native from N. J., southward.

VERBENACEAE

Callicarpa americana L. Beauty-berry. Caroline Black Botanic Garden. Native from Md. and Tenn., southward.

BIGNONIACEAE

Campsis radicans (L.) Seem. Trumpet Vine or Creeper. 9. Adventive in Conn. Native from Pa. to Fla., westward to Mo. and Tex.

Catalpa bignonioides Walt. Catalpa or Bean Tree. 16. Adventive in Conn. Native from Ga. and Fla. to Miss.

RUBIACEAE

Mitchella repens L. Partridge Berry. Native in the Arboretum.

Cephalanthus occidentalis L. Buttonbush. 48; native in the Arboretum in wet places.

CAPRIFOLIACEAE

Diervilla lonicera Mill. Bush Honeysuckle. 1b.

× **Lonicera bella** Zabel. (A hybrid between *L. Morrowii* Gray and *L. tatarica* L.). 9. Introduced from Asia; an escape from cultivation, Me. to Pa.

Lonicera dioica L. 9.

Lonicera japonica Thunb. Japanese Honeysuckle. A pernicious weed; introduced from eastern Asia and now naturalized in far too many places in southern Conn.

Lonicera Morrowii Gray. 25. Ornamental introduced from Japan.

Lonicera sempervirens L. Trumpet Honeysuckle. 9; behind Buck Lodge.

Lonicera tatarica L. Tartarian Honeysuckle. 11, 28. Ornamental introduced from Russia and the Near East.

Lonicera villosa (Michx.) R. & S. var. **Solonis** (Eat.) Fern. Mountain Fly Honeysuckle. 9.

Symphoricarpos albus (L.) Blake. Snowberry. 9.

- Symphoricarpos orbiculatus** Moench. CORALBERRY. 9.
- Viburnum acerifolium** L. MAPLE-LEAVED VIBURNUM OR DOCK-MACKIE. 9; native in the Arboretum woodland.
- Viburnum alnifolium** Marsh. HOBBLEBUSH. 40, 48.
- Viburnum cassinoides** L. WITHEROD. 10.
- Viburnum dentatum** L. ARROW-WOOD. 10.
- Viburnum Lentago** L. SHEEPBERRY OR NANNYBERRY. 10.
- Viburnum nudum** L. SMOOTH WITHEROD. 10.
- Viburnum prunifolium** L. BLACK HAW. 10.
- Viburnum trilobum** Marsh. CRANBERRY-TREE OR HIGHBUSH CRANBERRY. 9.
- Sambucus canadensis** L. COMMON OR AMERICAN ELDER. 31; native in the Arboretum in wet places.
- Sambucus pubens** Michx. RED-BERRIED ELDER. 32.

COMPOSITAE

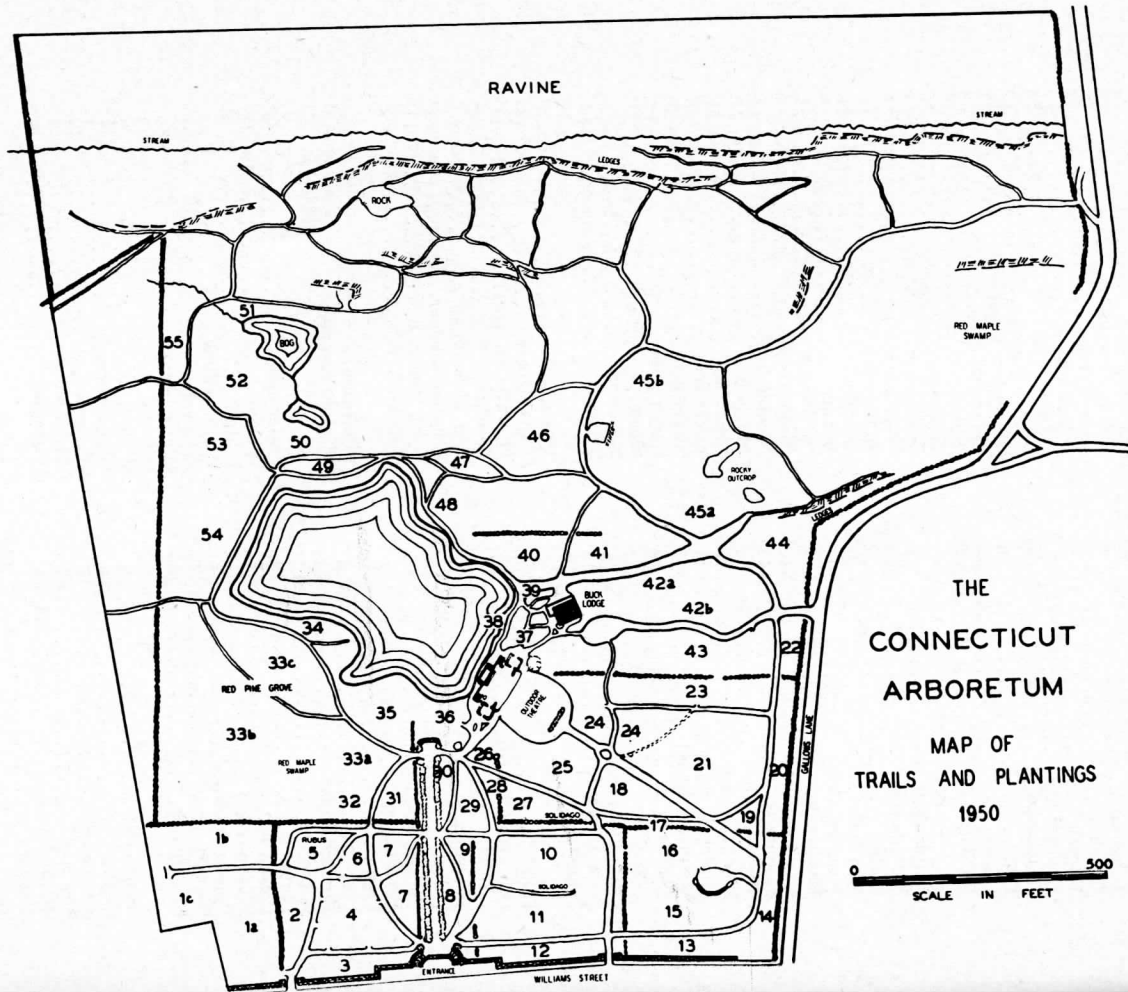
- × **Solidago asperula** Desf. (A hybrid between *S. sempervirens* L. and *S. rugosa* Ait.). 27 (*Solidago* bed).
- Solidago bicolor** L. WHITE GOLDENROD OR SILVER-ROD. Native in the Arboretum.
- Solidago caesia** L. BLUE-STEM GOLDENROD. 10, 27 (*Solidago* beds).
- Solidago canadensis** L. 10 (*Solidago* bed).
- Solidago Elliottii** T. & G. 10 (*Solidago* bed), 48 (edge of lake).
- Solidago erecta** Pursh. 10 (*Solidago* bed).
- Solidago fistulosa** Mill. 10 (*Solidago* bed).
- Solidago flexicaulis** L. 10, 27 (*Solidago* beds).
- Solidago gigantea** Ait. 10 (*Solidago* bed).
- Solidago gigantea** var. **leiophylla** Fern. 10 (*Solidago* bed).
- Solidago graminifolia** (L.) Salisb. Native in the Arboretum.
- Solidago hispida** Muhl. 10 (*Solidago* bed).

- Solidago juncea** Ait. 10 (*Solidago* bed); native in the Arboretum.
- Solidago juncea** forma **ramosa** (Porter & Britton) Fern. 10 (*Solidago* bed).
- Solidago macrophylla** Pursh. 10 (*Solidago* bed).
- Solidago nemoralis** Ait. Native in the Arboretum.
- Solidago odora** Ait. SWEET GOLDENROD. Native in the Arboretum.
- Solidago patula** Muhl. 27 (*Solidago* bed).
- Solidago puberula** Nutt. 10 (*Solidago* bed).
- Solidago Randii** (Porter) Britton. 10 (*Solidago* bed).
- Solidago rigida** L. 10 (*Solidago* bed).
- Solidago rugosa** Ait. 27 (*Solidago* bed); native in the Arboretum.
- Solidago rugosa** var. **aspera** (Ait.) Fern. 10 (*Solidago* bed).
- Solidago rugosa** var. **celtidifolia** (Small) Fern. 10 (*Solidago* bed).
- Solidago rugosa** var. **villosa** (Pursh.) Fern. 10 (*Solidago* bed).
- Solidago sempervirens** L. SEASIDE GOLDENROD. 10, 27 (*Solidago* beds).
- Solidago Shortii** T. & G. 10 (*Solidago* bed).
- Solidago speciosa** Nutt. 10 (*Solidago* bed).
- Solidago speciosa** var. **angustata** T. & G. 10 (*Solidago* bed).
- Solidago squarrosa** Muhl. 10 (*Solidago* bed).
- Solidago tenuifolia** Pursh. 10 (*Solidago* bed).
- Solidago uliginosa** Nutt. 10 (*Solidago* bed).
- Solidago uliginosa** var. **linoides** (T. & G.) Fern. 10 (*Solidago* bed).
- Solidago ulmifolia** Muhl. 10 (*Solidago* bed).
- Solidago Virgaurea** L. EUROPEAN GOLDENROD. 10 (*Solidago* bed). Introduced into the Arboretum from Sweden.
- Baccharis halimifolia** L. GROUNDSEL-TREE, SEA-MYRTLE, OR CONSUMPTION WEED. 35.

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