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Source: *The Journal of the Torrey Botanical Society,* Vol. 130, No. 4 (Oct. - Dec., 2003), pp. 292-308
Published by: Torrey Botanical Society
Stable URL: https://www.jstor.org/stable/3557547
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Journal of the Torrey Botanical Society 130(4), 2003, pp. 292–308

The vascular flora of Black Rock Forest, Cornwall, New York[1]

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BARRINGER, K. AND CLEMANTS, S. E. (Brooklyn Botanic Garden, 1000 Washington Avenue, Brooklyn, NY 11225-1099, U.S.A.). The vascular flora of Black Rock Forest, Cornwall, New York. J. Torrey Bot. Soc. 130: 292–308. 2003.—The flora of Black Rock Forest in Cornwall, New York, contains 688 species of vascular plants. Between 1990 and 1998, vascular plant specimens were collected in the Forest as part of a series of studies of the vegetation and flora. The flora includes ten state rarities. Of the six species in the Forest considered imperiled in the state, *Aristolochia serpentaria* and *Utricularia inflata* are extant; *Juncus debilis*, *Malaxis bayardii*, *Sisyrinchium mucronatum*, and *Spenopholis obtusata* var. *obtusata* have not been relocated.

Key words: Flora, New York, rare plants, invasive plants.

Black Rock Forest is a private forest run by a consortium of New York schools and research institutions (http://www.blackrockforest.org). It covers 1520 hectares (3750 acres) in the Hudson Highlands of Orange County, New York. The Forest is immediately north of the West Point Military Reservation and immediately southwest of Storm King Mountain. It is bisected by the line separating the towns of Cornwall and Highlands.

The Forest sits atop the Hudson Highlands, a series of geologically old gneiss and granite ridges, which run southwest to northeast in this section (Michaels, et al. 1992). The highest point in the Forest, Spy Rock, is at 446 m elev (1463 ft). Many peaks or ridges rise above 350 m., including Mt. Misery (386 m, 1268 ft), Black Rock Hill (429 m, 1408 ft), Hill of Pines (427 m, 1400 ft), Rattlesnake Hill (1410 ft), Sackett (390–427 m, 1300–1400 ft), and many unnamed ridges. The lowest elevations, about 135 m. (about 450 ft), occur at the northeastern edge of the Forest.

Most of the Forest is covered by upland woods characterized by mixed oaks (Barringer 2002). These woods are dominated by *Quercus rubra*, as is typical of the Highlands region (Collins and Anderson 1994). The south-facing, upper slopes are dominated by *Q. montana*. The hilltops and ridges generally have a mix dominated by oaks, *Carya glabra*, and *Pinus rigida*. On ridgetops and hilltops with shallow soil, an open vegetation dominated by shrubs and grasses is often found. In the north facing coves, *Tsuga canadensis* is dominant on steep slopes and intergrades with mixed northern hardwoods and swampy forest vegetation on lesser slopes and basins. There are six reservoirs and one pond in the Forest. All are relatively shallow and oligotrophic. These reservoirs, which supply water to the towns of Cornwall and Highlands, New York, were built before 1920. The Tamarack Pond reservoir, also called Spruce Pond, was created by the flooding of a black spruce swamp. The spruce died off, leaving sunken stumps, but a portion of the sphagnum mat has floated up to create a boggy island.

The Forest was assembled by James Stillman, the founder of First National City Bank, who purchased farms and woodlots in the 1920's in order to establish an estate for his family (Dunwell 1991). His son, Dr. Ernest Stillman, established the Black Rock Forest as an experimental forest in 1928. Under director Henry Tryon, an active program of experimental cuttings and plantings was begun that lasted into the 1980's. In 1938, H. Raup published a detailed study of the vegetation and flora of Black Rock Forest (Raup 1938). The work was based upon the earlier work by Tryon (1930) and two seasons of field work in 1937 and 1938. In addition to the plant list, Raup described a series of vegetation transects and delimited vegetation types. Dr. Stillman bequeathed the Forest to Harvard Uni-

[1] This research was funded, in part, by grants from the Black Rock Forest Consortium.

[2] We are grateful for the support of the Black Rock Forest Consortium. We especially thank Dr. William Schuster, Director of Black Rock Forest, Mr. Jack Karnig, Director Emeritus, Mr. John Brady, Forest Manager, and Rosetta D. Arrigo for their help and encouragement throughout this project. We thank Steven D. Glenn for his help with determinations. Mr. J.G. Barbour, Dr. Richard Mitchell, and Mr. Troy Weldy generously shared their field observations. Dr. Patricia Holmgren (NY), Dr. Charles Sheviak (NYS) and Ms. Emily Wood (GH, A) allowed us to study the Raup specimens in their collections.

Received for publication January 1, 2002, and in revised form April 1, 2003.

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Table 1. The number of families, genera and species of vascular plants in the flora, by class.

	Families	Genera	Native species	Introduced species	Total species
Lycopodophyta	3	4	5	0	5
Equisetophyta	1	1	3	0	3
Pteridophyta	8	15	25	0	25
Pinophyta	2	5	5	7	12
Magnoliophyta Dicotyledonae	85	251	383	109	492
Magnoliophyta Monocotyledonae	18	77	166	26	192
Total	117	353	587	142	729

versity and it was transferred to Harvard in 1949. In 1989, William T. Golden organized the Black Rock Forest Consortium, bringing together fifteen scientific and educational institutions to manage the Forest. The Consortium purchased the land from Harvard and transformed the Forest into a preserve for environmental research, education, and recreation.

Methods. Vascular plant specimens were first collected from 1990 through 1993 in order to update the flora (Raup 1938) and to gather data for comparative studies. All parts of the Forest as well as adjacent areas were collected at various times of the year. After a break in 1994 and 1995, collecting resumed in 1996 along with quantitative surveys of vegetation and continued until 1998. Additional collections were made available by J. G. Barbour and T. Weldy, who surveyed the Forest for rare and endangered species, and R. Mitchell, who was collecting as part of a broad study of the flora of the Hudson Highlands. The first set of collections are filed in the Brooklyn Botanic Garden Herbarium (BKL). Additional sets are at Black Rock Forest and the New York State Museum Herbarium (NYS).

As they were being made, the collections were checked against Raup's list (1938) and a special effort was made to locate the species he reported. An internal report by Raup, on file at the Forest, describing a series of vegetation transects he made in the Forest proved invaluable in relocating some species. In cases where there was disagreement between Raup's results and our own, we searched the herbaria at NY and NYS for Raup's specimens, looking for collection localities and checking identifications. In addition, we used an unvouchered list compiled by the Nature Conservancy (1988) of the Mineral Spring Tract. This area, in the southwestern corner of the current Forest, was not part of the Forest when Raup collected.

In this checklist, species are named and arranged following Mitchell and Tucker (1997), by division, family, and species, with synonyms from Raup (1938) and Gleason and Cronquist (1991). To make comparison easier, the nomenclature of Raup's species were updated. In the rare case where Raup's identification of a species differed from ours, we changed the name used by Raup.

Taxa are generally classified as native or non-native following Mitchell and Tucker (1997) and non-native species are marked with an asterisk (*). There are two exceptions. *Pinus banksiana* is native to the state, but the two trees in the Forest are far outside the natural range of the species (Cope 1992). It is most likely that the two trees are escapes or remnants from cultivation. The species is classified here as non-native. Also, Mitchell and Tucker consider *Sambucus racemosa* ssp. *pubens* (Michx.) House to be non-native, but the most recent monograph (Bolli 1994) treats this widespread species as native in this area.

Rarity rankings cite both the New York State Museum (NYSM) rank (Mitchell & Tucker 1997) and the New York Natural Heritage Program (NYNHP) rank (Young 2002). Rankings are given only for those species on the Natural Heritage Programs Active Inventory List.

In his report, Raup (1938) cited each species as either abundant, common, occasional, or rare. We try to update these qualitative judgments, but we use the word uncommon instead of rare because we do not want to confuse our estimate of abundance within the Forest with the State Museum and the Natural Heritage Program rankings.

Results. The flora of Black Rock Forest contains 729 species of vascular plants in 353 genera and 117 families (Table 1). The most diverse families are the Asteraceae with 76 species, the Poaceae, with 65 species, and the Cyperaceae, with 62 species. By far, the largest genus is *Carex* with 50 species present.

Approximately eighty percent of the species

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in the Forest are native and twenty percent are introduced. A few of the introduced species have become invasive. *Berberis thunbergii* is found on roadsides and in recently cut areas (Ehrenfeld 1997). It still grows on sites cut thirty years ago, but is being gradually replaced by *Vaccinium corymbosum* in open sites. *Robinia pseudoacacia* is found only along State Route 9W. *Euphorbia esula* is found only at the site of an old sawmill at the base of Hulse Road. *Rhamnus cathartica*, *Euonymus alata*, *Lonicera morrowii*, *Rosa multiflora*, *Hesperis matronalis*, *Polygonum cuspidatum*, *Microstegium vimineum*, and *Celastrus orbiculata* are uncommon and found only along roadsides. *Lythrum salicaria* is only found in small colonies near dams. *Phragmites australis* is also found near dams, but has made small inroads into undisturbed habitats along the edge of Beaver Swamp and Sutherland Swamp. Both *Phragmites* and *Lythrum* are abundant in a wetland just outside the Forest that receives runoff from State Route 9W. Their occurence along dams and in this wetland suggest that they may need a more nutrient rich habitat than is generally available in the Forest to become dominant.

Ailanthus altissima appears occasionally in disturbed sites, especially near the reservoirs, but is also found in a small section of upland woods on a steep, wooded slope with shallow soil, overlooking State Route 9W. Forest records indicate that the site suffered a blowdown that knocked down most trees on the slope in the late 1960's (Black Rock Forest Compartment Files). Trees were removed and stumps were sprayed with 2, 4, D, which prevented sprouting. The Ailanthus now grow mixed with oaks and *Carya glabra*. There is no indication that the Ailanthus is reproducing under the forest canopy.

Rare and Endangered Plants. Ten rare or endangered plants have been found, four with the rank of S1 (New York Natural Heritage Program 2001). Of the S1 plants, only *Aristolochia serpentaria* is known to be extant in the Forest. *Juncus debilis*, *Malaxis bayardii*, *Sisyrinchium mucronatum*, and *Sphenopholis obtusata* var. *obtusata* have not been found recently. *Utricularia inflata* appeared in Tamarack Pond in 1992 and became abundant in the reservoir between 1995 and 1997. After 1997 the population declined and it was not found in the reservoir in 1999. It may still be extant, but in much lower numbers.

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Abbreviations

Voucher collectors are designated as follows: B = K. Barringer, Br = J. G. Barbour, C = S. Clemants, G = S. Glenn, M = R. Mitchell, R = H. Raup. S = S. Smith, W = T. Weldy. Non-native species are marked with and asterisk (*). Specimens are cited using standard acronyms (Holmgren, et al 1991). Specimens are at BKL unless otherwise noted.

Lycopodiophyta
Lycopodiaceae

Huperzia lucidula (Michx.) Trev. (*Lycopodium lucidulum*), occasional. Lower slopes and coves. (B, 5253).

Lycopodium obscurum L., uncommon. Lower slopes and coves. (B, 5036).

Lycopodium digitatum Dill. (*L. complanatum* var. *flabelliforme*), Not found. Raup: rare-occasional. Moist. rich woods southwest of Sutherland Pond. (R, 7375 NYS)

Selaginellaceae

Selaginella rupestris (L.) Spring, uncommon. Open, rocky hilltops. (B, 5888).

Isoetaceae

Isoetes echinospora Durieu, occasional. Arthur's and Sutherland Ponds. (B, 5314).

Equisetophyta
Equisetaceae

Equisetum arvense L., occasional. Moist, disturbed sites. (B, 5223).

Equisetum hyemale L. (*E. prealtum*), uncommon. Wet thicket near the Upper Reservoir. (B, 5254).

Equisetum sylvaticum L., uncommon. Wet, disturbed site south of the Upper Reservoir. (B, 5252).

Polypodiophyta
Ophioglossaceae

Botrychium dissectum Spreng., uncommon. Open, grassy area near Aleck Meadow Reservoir. (B, 5027).

Botrychium virginianum (L.) Sw., uncommon. Rich, cove woods along Canterbury brook.

Osmundaceae

Osmunda cinnamomea L., uncommon. Swampy woods at low elevations. (B, 6276)

Osmunda claytoniana L., occasional. Cove woods, in swampy ground and near streams. (B, 5555).

Osmunda regalis L., occasional. Cove woods in swampy ground.

Pteridiaceae

Adiantum pedatum L., occasional. Rich woods along Black Rock Brook. (B, 5094).

Dennstaedtiaceae

Dennstaedtia punctilobula (Michx.) Moore, common. Roadsides, clearings and openings. (B, 4897).

Pteridium aquilinum (L.) Kuhn, occasional. Dry open sites, especially along roads. (B, 5510).

Thelypteridaceae

Phegopteris connectilis (Michx.) Watt (*Dryopteris phegopteris*), uncommon. Rich woods along Black Rock Brook. (B, 5495).

Phegopteris hexagonoptera (Michx.) Fee (*Dryopteris hexagonoptera*), Not found. Raup: rare. Slope woods. (R, 7546 NYS)

Thelypteris noveboracensis (L.) Nieuwl. (*Dryopteris noveboracensis*), occasional. Moist to wet, rich woods. (B, 5558).

Thelypteris palustris Schott (*Dryopteris thelypteris*), occasional. Wet woods. (R, 7716 NYS)

Woodwardia virginica (L.) Sm., occasional. Swamp south of Sutherland Pond and the boggy island in Tamarack Pond. (B, 5999).

Aspleniaceae

Asplenium platyneuron (L.) BSP., not found. Raup: occasional. Rocky upland woods.

Asplenium rhizophyllum L. (*Camptosorus rhizophyllus*), uncommon. On or near limestone erratics. (B, 4926).

Asplenium trichomanes L., uncommon. Near a limestone erratic, Canterbury Brook cove. (B, 5002).

Dryopteridaceae

Athyrium filix-femina (L.) Roth (*Athyrium angustum*), occasional. Damp woods and sedge meadows. (B, 5614).

Dryopteris campyloptera (Kunze) Clarkson (*D. spinulosa*), occasional. Rich, wet woods, especially near streams. (B, 5168).

Dryopteris carthusiana (Vill.) Fuchs. (*D. spinulosa*), common. Rich, wet woods, especially coves. (B, 4928).

Dryopteris intermedia (Muhl.) A. Gray, uncommon. Damp roadside in coves. (B, 5091).

Dryopteris marginalis (L.) A. Gray, common. Lower slope and cove woods. (B, 4952).

Onoclea sensibilis L., occasional. Wet, disturbed sites and along streams. (B, 4916).

Polystichum acrostichoides (Michx.) Schott, common. Lower slope and cove woods. (B, 4953).

Woodsia ilvensis (L.) R. Br., uncommon. Undisturbed hilltops. (B, 5889).

Polypodiaceae

Polypodium virginianum L., common. Ledges and boulders in woods. (B, 4906).

Pinophyta
Pinaceae

**Larix decidua* Mill., not found. Unsuccessfully planted. (Tryon & Finn 1949).

**Larix kaempferi* (Lamb.) Carr., not found. Unsuccessfully planted. (Tryon & Finn 1949)

**Larix laricina* (DuRoi) Koch, occasional. Once planted, a few trees remain. (B, 5304).

**Picea abies* (L.) Karst., cultivated. At the Stone House. (B, 4900).

**Picea glauca* (Moench) Voss, cultivated. Plantations along Continental road, sometimes spreading in disturbed areas. (B, 5533).

Picea mariana (Mill.) BSP., not found. Raup: rare. Remnant stumps in Tamarack pond. (R, 7737 NY).

**Pinus banksiana* Lamb., uncommon. Two trees grow on an exposed knob on Pine Tree Hill, probably introduced. (B, 5989).

**Pinus resinosa* Soland., cultivated-occasional. Plan-

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tations near the Stone House, sometimes spreading nearby. (B, 4987).

Pinus rigida Mill., occasional. Hilltops and rocky, exposed slopes. (B, 5576).

Pinus strobus L., uncommon. Rocky slopes, coves, and rarely hilltops. (B, 4976).

Tsuga canadensis (L.) Carr., common. North facing slopes and coves. (B, 4948).

Cupressaceae

Juniperus virginiana L., occasional. Exposed, rocky slopes, cliffs, and open, disturbed sites. (B, 4982).

Magnoliophyta
Dicotyledonae
Magnoliaceae

Liriodendron tulipifera L., occasional. Rich woods, especially in the coves. (B, 4872).

Lauraceae

Lindera benzoin (L.) Blume, occasional. Coves and lower slopes. (B, 4985).

Sassafras albidum (Nutt.) Nees (*S. officinale*), occasional Coves and lower slopes. (B, 4817).

Aristolochiaceae

Aristolochia serpentaria L., uncommon. NYSM: E. NYNHP: G4 S1. (Barbour & Weldy, pers. com)

Asarum canadense L., occasional. Rich woods, especially near limestone erratics. (B, 5004).

Nymphaeaceae

Nuphar variegata Engelm., occasional. Sutherland Pond and Jim's Pond.

Nymphaea odorata Dryand.,occasional. Sutherland Pond and Jim's Pond. (G, 3832).

Cabombaceae

Brasenia schreberi Gmel., uncommon. Sutherland Pond. (R, 7752 NYS)

Ranunculaceae

Actaea pachypoda Ell. (*A. alba*), uncommon. Roadside along Brook Road. (B, 4955).

Anemone quinquefolia L., uncommon. Lower slope and cove woods. (B, 5020).

Anemone virginiana L. (*A. riparia*), not found. Raup: common-occasional. Old clearings. (R, 7481 NYS)

Aquilegia canadensis L., uncommon. Rocky disturbed sites and cliffs. (B, 5247).

Caltha palustris L., uncommon. Swampy woods. (B, 5276).

Clematis virginiana L., occasional. Thickets, often found near dams. (B, 5597).

Hepatica nobilis var. *obtusa* (Pursh) Steyerm. (*H. americana*, *Anemone americana*), occasional. Rich woods in the coves. (B, 4991).

Ranunculus abortivus L., occasional. Roadsides and roadside ditches. (B, 5019).

**Ranunculus acris* L., occasional. Roadsides and disturbed sites. (B, 5439).

Ranunculus ambigens S. Wats. (*R. laxicaulis*), not found. Raup: occasional. Swampy streamsides. (R, 7791 NYS).

**Ranunculus bulbosus* L., not found. Raup: occasional-common. Roads and disturbed sites. (R, 8087 NYS).

Ranunculus micranthus Nutt., uncommon. NYSM: T. NYNHP: G5 S2. Southeast corner of the Forest. (Barbour (pers. com.).

Ranunculus recurvatus Poir., occasional. Roadsides in coves. (B, 5089).

Thalictrum dioicum L., occasional. Roadsides in coves and lower slopes. (B, 5228).

Thalictrum pubescens Pursh (*T. polygamum*), uncommon. Along Continental Road. (B, 5392).

Thalictrum thalictriodes (L.) Eames & Boivin (*Anemonella thalictroides*), occasional. Coves and lower slopes. (B, 5018).

Berberidaceae

**Berberis thunbergii* DC., common. Disturbed sites. (B, 4853).

Caulophyllum thalictroides (L.) Michx., not found. Raup: rare. Talus below Mt. Misery. (R, 7966 NYS)

Menispermaceae

Menispermum canadense L., uncommon. Thickets and old clearings. (B, 5985).

Papaveraceae

**Chelidonium majus* L., uncommon. Roadsides and riprap along Black Rock Brook. (B, 5083).

Fumariaceae

Corydalis flavula (Raf.) DC., uncommon. Open, rocky slopes. (C, 4881).

Corydalis sempervirens (L.) Pers., occasional. Open, rocky slopes and, rarely, dry roadsides. (B, 5577).

Dicentra cucullaria (L.) Bernh., uncommon. Rocky slopes. (B, 4986).

Platanaceae

Platanus occidentalis L., uncommon. Rich woods, especially north-facing coves. (B, 4943).

Hamamelidaceae

Hamamelis virginiana L., abundant. Slopes and coves. (B, 4945).

Ulmaceae

Ulmus americana L., not found. Raup: common. Coves and lower slopes.

Ulmus rubra Muhl., uncommon. Coves and lower slopes. (B, 5230)

Moraceae

Morus rubra L., uncommon. Recently introduced along Reservoir Road. (B, 5836).

Urticaceae

Laportea canadensis (L.) Wedd., uncommon. Lower stretches of Black Rock Brook. (R, 7779 NYS)

Pilea pumila (L.) A. Gray, common. Roadside ditches in coves. (B, 4860).

Juglandaceae

Carya cordiformis (Wang.) Koch, occasional. Swampy woods. (B, 4950).

Carya glabra (Mill.) Sweet., common. Hilltops and slope woods. (B, 5296).

Carya ovalis (Wang.) Sarg., uncommon. Ridges (B, 5584).

Carya ovata (Mill.) Koch, occasional. Swampy woods. (B, 4854).

Carya tomentosa (Poir.) Nutt., uncommon. Cove woods (B, 5820).

Juglans cinerea L., uncommon. Rich woods, usually on the lower slopes. (B, 4983).

**Juglans nigra* L., not found. Formerly cultivated (J. Karnig, pers. com.)

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Myricaceae

Comptonia peregrina (L.) Coult. (*Myrica asplenifolia*), uncommon. Dry, open, disturbed sites, especially hilltops. (B, 4980).

Fagaceae

Castanea dentata (Marsh.) Borkh., occasional. Sprouts in moist sites in the slope woods. (B, 4818).

**Castanea mollissima* Blume, not found. Unsuccessfully planted. Tryon (1949).

Fagus grandifolia Ehrh., occasional. Slopes, especially lower slopes. (B, 5885).

Quercus alba L, common. Throughout, common on hilltops and in lower slopes. (B, 5266).

Quercus bicolor Willd., uncommon. Swampy woods. (R, 8196 (NYS)).

Quercus coccinea Muenchh., common. Hilltops and upper slopes. (R, 8126 NYS).

Quercus ilicifolia Wang., occasional. Thickets on hilltops. (B, 4827).

Quercus montana Willd. (*Quercus prinus*), abundant. Upper slope woods. (B, 4829).

Quercus rubra L. (*Q. borealis*), abundant. Throughout. (B, 5257).

Quercus velutina Lam., occasional. Throughout, especially lower slopes. (B, 5271).

Betulaceae

Alnus incana (L.) Moench (*A. rugosa*), occasional. Moist, open or disturbed sites. (B, 5269).

Alnus serrulata (Dryand) Willd. (*A. rugosa*), occasional. Swampy woods and along streams. (B, 5184).

Betula alleghaniensis Britt. (*B. lutea*), common. Lower slopes and coves. (B, 4949).

Betula lenta L., common. Slopes and hilltops. (B, 5040).

Betula papyrifera Marsh., uncommon. Wet woods. (B, 6321).

Betula populifolia Marsh., occasional. Disturbed sites. (B, 5060).

Carpinus caroliniana Walt., occasional. Coves, lower slopes and hilltops. (B, 5298).

Corylus cornuta Marsh., not found. Open, disturbed sites. (R, 8169 NYS).

Ostrya virginiana (Mill.) Koch, occasional. Coves, lower slopes and hilltops. (B, 4877).

Phytolaccaceae

Phytolacca americana L., occasional. Disturbed sites and roadsides. (B, 5313).

Chenopodiaceae

**Chenopodium album* L., uncommon. Along roads. (B, 5774).

Chenopodium standleyanum Aellen, uncommon. Along roads. (B, 5779).

Caryophyllaceae

**Cerastium arvense* L., not found. Raup: occasional. Dry, disturbed sites and hilltops. (R, 7526 NYS)

**Cerastium fontanum* Baumg. (*C. vulgatum*), occasional. Moist, open, disturbed sites. (B, 5051).

Cerastium nutans Raf.,uncommon. Road to Arthur's Pond Dam. (B, 5305).

**Cerastium semidecandrum* L., uncommon. Disturbed ground near Aleck Meadow Reservoir. (C, 4862).

**Dianthus armeria* L., uncommon. Moist, disturbed sites. (B, 5117).

Paronychia canadensis (L.) Wood, occasional. Dry roadsides. (B, 4875).

Paronychia fastigiata (Raf.) Fern., not found. Raup: occasional. Roadsides. (R, 7775 NYS).

**Sagina procumbens* L., not found. Wet spots along upland trails.(R, 7302 NYS).

**Scleranthus annuus* L., uncommon. Open, disturbed ground near Aleck Meadow Reservoir. (C, 4854).

Silene antirrhina L., not found. Raup: occasional (local). Hilltops (R, 7324 NYS).

**Silene latifolia* Poir., occasional. Raup: common. Roadsides and disturbed sites. (B, 5084).

Silene stellata (L.) Ait. f., not found. Raup: rare-occasional. Rocky slopes. (R, 7633 NYS).

**Silene vulgaris* (Moench) Garke (*S. latifolia*), uncommon. Open, disturbed ground near Aleck Meadow Reservoir. (R, 7557 NYS).

**Stellaria graminea* L., uncommon. Weedy roadsides. (R, 7371 NYS).

Polygonaceae

Polygonum arifolium L., occasional. Wet, disturbed sites. (B, 5844).

**Polygonum aviculare* L., not found. Raup: common. Road, trails, disturbed sites. (B, 5786).

**Polygonum cespitosum* Blume, common. Disturbed sites, especially roadsides. (B, 5422).

**Polygonum cuspidatum* Sieb. & Zucc., uncommon. Disturbed site along Brook Road. (B, 4946).

**Polygonum hydropiper* L., common. In and along streams. (B, 5409).

Polygonum hydropiperoides Michx., common. Moist, disturbed sites and along streams. (B, 4885).

Polygonum pensylvanicum L., occasional. Pond edges and along streams. (B, 4841).

**Polygonum persicaria* L., occasional. Moist, disturbed sites and edges of ponds. (B, 5539).

Polygonum punctatum Ell., occasional. Edges of ponds and streams. (C, 3934).

Polygonum sagittatum L., common. Wet places, especially the edges of reservoirs. (B, 5542).

Polygonum scandens L. (*P. dumetorum*), occasional. Thickets and disturbed sites. (B, 5457).

Polygonum virginianum L., uncommon. Along Brook Road. (B, 5527).

**Rumex acetosella* L., occasional. Roadsides. (B, 5334).

**Rumex crispus* L., occasional. Roadsides and disturbed sites. (R, 7354 NYS).

**Rumex obtusifolius* L., not found. Raup: occasional-common. Disturbed sites. (R, 7620 NYS).

**Rumex orbiculatus* A. Gray (*R. brittanica*), not found. The island in Tamarack Pond. (R, 7724a NYS).

Clusiaceae

Hypericum canadense L., common. Edges of reservoirs. (B, 5771).

Hypericum gentianoides (L.) BSP., uncommon. Hilltops. (R, 7807 NYS).

Hypericum mutilum L., common. Edges of reservoirs. (B, 5602).

**Hypericum perforatum* L., occasional. Roadsides and clearings. (B, 5434).

Hypericum punctatum Lam., occasional. Damp, disturbed sites. (B, 5462).

Triadenum virginicum (L.) Raf. (*Hypericum virginicum*), occasional. Edges of reservoirs. (B, 4868).

Tiliaceae

Tilia americana L., occasional. Coves and lower slopes. (B, 4858).

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Sarraceniaceae

Sarracenia purpurea L., not found. Raup: common (local). Sutherland Swamp. (R, 7744 NYS).

Droseraceae

Drosera intermedia Hayne, uncommon. Sutherland Swamp. (B, 5354).

Drosera rotundifolia L., uncommon. Sutherland Swamp. (B, 5352).

Cistaceae

Helianthemum bicknellii Fern., not found. Raup: occasional. Hilltops. (R, 7947 NYS).

Helianthemum canadense (L.) Michx., uncommon. Hilltops. (C, 3918).

Lechea mucronata Raf. (*L.villosa*), not found. Along trails and on the hilltops. (R, 7683 NYS).

Lechea intermedia Leggett., uncommon. Dry open sites. (B, 5990).

Violaceae

Viola affinis LeConte (*V. latiuscula*), not found. Ravines. (R, 7652 NYS)

Viola blanda Willd., common. Swampy ground. (B, 5065).

Viola conspersa Reichb., common. Dry woods and thickets. (B, 5009).

Viola cucullata Aiton, occasional. Swampy ground. (B, 5029).

Viola macloskeyi ssp. *pallens* (Banks) M. Baker (*V. pallens*), occasional. Raup: common-abundant. Cove woods. (B, 5090).

Viola palmata L., uncommon. Upper slope woods. (R, 7643 NYS)

Viola pubescens Aiton, common. Swampy areas. (B, 5088).

Viola sagittata Aiton (*V. fimbriatula*), occasional. Open, disturbed slopes and roadsides (C, 4344). (Yost 1987).

Viola sororia Willd.,occasional. Raup: rare. Disturbed sites especially roadsides. (B, 5277).

Salicaceae

Populus deltoides Bartr., uncommon. Wet, disturbed sites. (B, 5722).

Populus grandidentata Michx., occasional. Disturbed sites, in cove and lower slope woods. (B, 5251).

Populus tremuloides Michx.,uncommon. Disturbed sites. (B, 5964).

Salix bebbiana Sarg., uncommon. Aleck Meadow dam. (B, 5759).

Salix discolor Muhl., uncommon. Damp, disturbed sites along the roads. (B, 5265).

Salix eriocephala Michx. (*Salix cordata*), uncommon. Wet, disturbed sites. (C, 4876).

Salix humilis Marsh. var. *humilis*, not found. Raup occasional. Wet, disturbed sites (R, 8073 A).

Salix lucida Muhl., uncommon. along Sphagnum pond dam. (B, 5759).

Salix nigra Marsh., uncommon. Wet, disturbed sites. (B, 5718).

Salix purpurea L., uncommon. Sphagnum Pond dam. (B, 5758).

Salix sericea Marsh., uncommon. Wet, disturbed sites. (B, 4985).

Brassicaceae

**Alliaria petiolata* (Bieb.) Cav. & Grande (*A. officinalis*), occasional. Disturbed sites. (B, 5068).

Arabis canadensis L., uncommon. Hilltops. (B, 5041).

Arabis laevigata (Muhl.) Poir., occasional. Dry, upland woods. (B, 4988).

Arabis lyrata L., uncommon. On or near limestone boulders. (B, 4923).

**Barbarea vulgaris* R. Br., occasional. Damp disturbed sites. (B, 5093).

**Brassica nigra* (L.) Koch, uncommon. Disturbed sites, usually roadsides.

**Capsella bursa-pastoris* (L.) Medik., uncommon. Old fields and lawns.

Cardamine pensylvania Muhl., occasional. Damp, disturbed sites and cove woods. (B, 5101).

**Hesperis matronalis* L., occasional. Disturbed sites and roadsides (B, 5099).

**Lepidium campestre* (L.) R. Br., uncommon. Lawns. (B, 6037).

Lepidium virginicum L., occasional. Dry, disturbed sites. (R, 7556 NYS).

Rorippa palustris (L.) Besser, uncommon. Wet areas around the reservoirs and slow-moving streams. (R, 7361 NYS).

**Sinapsis arvensis* L. (*Brassica arvensis*), occasional. Disturbed sites.

**Thlaspi arvense* L., uncommon. Raup: not found. Lawns (B, 6036).

Clethraceae

Clethra alnifolia L., occasional. Near ponds, reservoirs and swamps (B, 5569).

Ericaceae

Chamaedaphne calyculata (L.) Moench, common. Pond edges and the island in Tamarack Pond. (B, 4973).

Chimaphila maculata (L.) Pursh, occasional. Slope woods, usually with northern exposure. (B, 4874).

Epigaea repens L., uncommon. Open sites in slope woods. (B, 4981).

Gaultheria procumbens L.,occasional. Lower slope and cove woods. (B, 4962).

Gaylussacia baccata (Wang.) Koch, abundant. Slope woods and hilltops. (B, 5297).

Kalmia angustifolia L., occasional. Swampy woods near Sutherland Pond. (R, 7734 NYS).

Kalmia latifolia L., Abundant. North to northeast facing slopes. (B, 4837).

Kalmia polifolia Wang., uncommon. Open, boggy sites. (B, 5125).

Lyonia ligustrina (L.) DC B not found. Raup: occasional. Clearings and along fences. (R, 7805 NY, NYS).

Monotropa hypopithys L., occasional. Upper slope woods. (B, 5573).

Monotropa uniflora L., common. Slope and cove woods. (B, 5407).

Pyrola americana Sweet (*P. rotundifolia*), not found. Raup: rare. Slope woods. (R, 7796 NYS).

Pyrola elliptica Nutt., occasional. Lower slope woods. (B, 5191).

Rhododendron maximum L., uncommon. North-facing slope woods, especially Canterbury Brook cove. (B, 4830).

Rhododendron periclymenoides (Michx.) Shinners (*R. nudiflorum*). occasional. Damp thickets. (B, 5107).

Rhododendron viscosum (L.) Torrey, common. Edges of ponds and open, swampy ground. (B, 5360).

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Vaccinium angustifolium Ait. (*V. pensylvanicum*) Abundant. Hilltop and slope woods. (C, 4359).
Vaccinium corymbosum L., common. Swampy ground and damp woods. (B, 4888).
Vaccinium macrocarpon Ait., uncommon. Open sphagnum meadows. (G, 3844).
Vaccinium pallidum Ait. (*V. vacillans*), common. Upper slope and hilltop woods. (B, 5035).
Vaccinium stamineum L., common. Upper slope and hilltop woods. (B, 5232).

Primulaceae

Lysimachia ciliata L. (*Steironema ciliatum*), uncommon. Wet, disturbed sites and along streams. (B, 5438).
**Lysimachia nummularia* L., uncommon. Sawmill pond along Black Rock Brook. (B, 5183).
Lysimachia quadrifolia L., occasional. Throughout the Forest in woods. (B, 5178).
Lysimachia terrestris (L.) BSP., occasional. Open edges of ponds, reservoirs, and streams. (B, 5393).
Trientalis borealis Raf., uncommon. Rich cove woods. (B, 5714).

Grossulariaceae

Ribes rotundifolium Michx., uncommon. Woods near limestone erratics or along the entry road. (B, 5003).

Crassulaceae

Penthorum sedoides L., not found. Raup: common (local). Swampy ground in an old clearing near Aleck Meadow Reservoir. (R, 7686 (NY).
**Sedum telephium* L (*S. triphyllum*), uncommon. Raup: occasional. Roadsides and on old farm roads. (B, 5243).
**Sedum sarmentosum* Bunge, uncommon. Dry, disturbed sites. (B, 5243).

Saxifragaceae

Chrysosplenium americanum Schwein., occasional. Slow-moving streams and swampy woods. (B, 5066).
Heuchera americana L., not found. Raup: rare. Among loose rock on the west slope of Mt. Misery.
Mitella diphylla L., occasional. Lower slopes and coves. (B, 5006).
Saxifraga virginiensis Michx., occasional. Raup: occasional. Rocky, slope woods. (B, 5042).

Rosaceae

Agrimonia gryposepala Wallr., occasional. Dry, disturbed sites. (B, 5456).
Amelanchier arborea (Michx. f.) Fern. (*A. canadensis*), common. Slopes. (B, 4964).
Aronia arbutifolia (L.) Pers., occasional. Edges of reservoirs and open, upland sites. (G, 165118). *A. x prunifolia* (Marsh.) Rehder, the hybrid of this species and the following is also present.
Aronia melanocarpa (Michx.) Ell., occasional. Hilltops and edges of ponds. (B, 4892).
Crataegus crus-galli L., uncommon. Edges of old pastures. (B, 6016).
Crataegus macrosperma Ashe, uncommon. Dry upland woods and hilltops. (B, 6023).
Fragraria virginiana Dcne., uncommon. Dry, open, disturbed sites. (B, 5063).
Geum canadense Jacq., not found. Raup: occasional. Damp thickets. (R, 7416 NYS).
Geum laciniatum Murr., not found. Raup: occasional. Damp thickets. (R, 7421 NYS).
**Malus pumila* Mill., uncommon. Abandoned orchards and old house sites. (B, 5264).
Physocarpus opulifolius (L.) Maxim., occasional. Upper slope woods. (R, 7830 NYS).
**Potentilla argentea* L., not found. Raup: rare. Rocks at the edge of Sutherland Pond. (R, 8174 NYS).
Potentilla arguta Pursh, uncommon. Open hilltops.
Potentilla canadensis L., occasional. Damp, disturbed sites. (B, 5109).
Potentilla norvegica L., not found. Raup: common. Damp thickets. (R, 7708 NYS).
**Potentilla recta* L., uncommon. Open, disturbed sites. (R, 8193 NYS).
Potentilla simplex Michx., uncommon. Dry clearings and open, upland woods. (B, 6018).
**Prunus domestica* L., Cultivated. Roadside near the Chatfield Place. (B, 6377).
Prunus pensylvanica L.f., occasional. Successional sites and hilltops. (R, 8052 NYS).
Prunus pumila L., not found. Raup: uncommon. Dry, slope woods, and hilltop thickets. (R, 7658 NYS)
Prunus serotina Ehrh., occasional. Successional sites and slope woods. (C, 4888).
Prunus virginiana L., uncommon. Dry, disturbed sites and successional sites. (B, 5061).
**Pyrus communis* L., uncommon. Near old house sites. (R, 7547).
Rosa carolina L., uncommon. Thickets and roadsides. (C, 4884).
**Rosa multiflora* Thunb., occasional. Damp, disturbed sites. (B, 5338).
Rosa palustris Marsh., uncommon. Open, swampy sites near Sutherland Pond. (B, 5902).
Rubus allegheniensis Porter, common. Raup: common. Thickets at the edge of woods. (B, 5751).
Rubus flagellaris Willd., occasional. Raup: not found. Disturbed sites.
Rubus hispidus L., common. Open, disturbed sites. (B, 5368).
Rubus idaeus L., common. Thickets at the edge of woods. (B, 5745).
Rubus occidentalis L., occasional. Damp thickets. (B, 5339).
Rubus odoratus L., occasional. Thickets at the edge of woods. (B, 4959).
Rubus pensylvanicus Poir. (*R. frondosus*), not found. Raup: occasional. Roadsides. (R, 7544 NYS).
**Rubus phoenicolasius* Maxim., occasional. Disturbed sites in rich cove woods. (B, 5396).
Spiraea alba var. *latifolia* (Ait.) Dippel (*S. latifolia*), occasional. Wet, disturbed sites near the ponds. (B, 5315).
Spiraea tomentosa L., occasional. Wet, disturbed sites near reservoirs. (B, 5546).

Fabaceae

Amphicarpa bracteata (L.) Rickett & Stafleau, occasional. Rich cove woods. (R, 7828 NYS)
Apios americana Medik. (*A. tuberosa*), uncommon. Swampy woods near Sutherland Pond and along Mineral Spring Brook. (C, 4448).
Baptisia tinctoria (L.) R. Br., not found. Raup: occasional. Dry, upland roadsides. (R, 7772 NYS).
Desmodium cuspidatum (Muhl.) DC. (*D. bracteosum*), uncommon. Roadsides and dry hilltops. (B, 5735).
Desmodium glutinosum (Muhl.) Wood (*D. acumina-*

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tum), not found. Raup: occasional-common. Rocky, slope woods. (R, 7617 NYS).
Desmodium nudiflorum (L.) DC., occasional. Woods and roadsides. (B, 5832).
Desmodium paniculatum (L.) DC., not found. Raup: occasional. Dry, upper slope woods. (R, 7872 NYS).
Desmodium rotundifolium DC., not found. Raup: occasional. Dry, upper slope woods. (R, 7663 NYS).
Lespedeza capitata Michx, uncommon. Dry roadsides and open hilltops.
Lespedeza hirta (L.) Hornem., not found. Raup: occasional. Upper slope woods. (R, 7673 NYS),
Lespedeza intermedia (S. Wats.) Britt., not found. Raup: occasional. Roadsides and dry, upper slopes. (B, 6238).
Lespedeza procumbens Michx, uncommon. Slope woods. (B, 6238b).
Lespedeza violacea (L.) Pers., not found. Raup: occasional. Upper slope woods. (R, 7967 NYS).
**Lotus corniculata* L., uncommon. Disturbed sites along Continental Road. (B, 5435).
**Melilotus alba* Desr., uncommon. Disturbed sites near Aleck Meadow Reservoir. (B, 5458).
**Melilotus officinalis* (L.) Pallas, uncommon. Disturbed sites in coves and lower slopes. (B, 5141).
**Robinia pseudo-acacia* L., occasional. Successional sites and along Route 9W. (B, 5236).
**Trifolium arvense* L., uncommon. Disturbed sites near Aleck Meadow Reservoir. (B, 5471).
**Trifolium aureum* Pollich (*T. agrarium*), uncommon. Damp, disturbed sites. (B, 5762).
**Trifolium campestre* Schreb., uncommon. Disturbed sites. (B, 5976).
**Trifolium dubium* Sibth., uncommon. Disturbed sites near the Arthur's Pond Dam. (B, 5310).
**Trifolium hybridum* L., uncommon. Disturbed ground near Aleck Meadow Reservoir. (B, 5474).
**Trifolium pratense* L., uncommon. Wet to damp disturbed sites. (B, 5189).
**Trifolium repens* L., uncommon. Disturbed ground below Sphagnum Pond Dam. (B, 5372).
Vicia cracca L., uncommon. Disturbed sites along the entry road and Route 9W. (R, 8172 NYS).

Lythraceae
Decodon verticillatus (L.) Ell., uncommon. Sutherland Pond and in the swamp south of Jim's Pond. (G, 3840).
**Lythrum salicaria* L., occasional. Disturbed ground near dams. (B, 5755).
Rotala ramosior (L.) Hoehne, uncommon. NYSM: T. NYNHP: G5 S2. Just outside the Forest along the Upper Reservoir. (Br, 3559 NYS.)

Thymelaeaceae
Dirca palustris L., uncommon. Lower cove along Black Rock and Canturbury Brooks. (B, 5021).

Onagraceae
Circaea lutetiana L. (*C. latifolia*), occasional. Cove woods along the streams and on damp, disturbed sites. (B, 5398).
Epilobium angustifolium L., uncommon. Top of Mt. Rascal.
Epilobium ciliatum Raf. (*E. glandulosum*), common. Damp disturbed sites and along the edges or reservoirs. (R, 7699 NYS).
Epilobium coloratum Muhl., uncommon. Sphagnum Pond dam and damp, disturbed sites. (B, 5760).
Ludwigia palustris (L.) Ell., occasional. Slow-moving streams and along the edges of ponds and reservoirs. (B, 5900).
Oenothera biennis L., uncommon. Dry, disturbed sites and clearings, common just outside the Forest near the Upper Reservoir (R, 7695 NYS).
Oenothera perennis L., uncommon. Roadsides, prefers damp soil. (B, 4840).

Melastomataceae
Rhexia virginica L., uncommon. Along the edge of Sutherland Pond. (B, 5901).

Nyssaceae
Nyssa sylvatica Marsh., common. Moist, cove woods and swamps. (B, 5709).

Cornaceae
Cornus amomum Mill. (*C. stolonifera*), not found. Raup: occasional. Near Arthur's Pond. (R, 7844 NY).
Cornus florida L., occasional. Lower slope and cove woods and along Route 9W. (B, 5278).
Cornus foemina ssp. *racemosa* (Lam.) J. Wilson (*C. racemosa* Lam.), uncommon. Roadsides and along streams. (R, 7835 NY).
Cornus rugosa Lam., uncommon. Rich, slope woods. (B, 5079).
Cornus sericea L., uncommon. Old field. (B, 5837).

Santalaceae
Comandra umbellata (L.) Nutt., not found. Raup: rare-occasional. Rocky, upland woods. (R, 7762 NYS).

Celastraceae
**Celastrus orbiculata* Thunb., uncommon. Rich, disturbed sites. (B, 5123).
Celastrus scandens L., not found. Raup: occasional. Thickets and fencerows. (R, 7486 NYS).
**Euonymus alata* (Thunb.) Sieb., uncommon. Roadsides. (B, 4861).

Aquifoliaceae
Ilex verticillata (L.) A. Gray, common. Moist woods and swamps. (B, 5143).
Nemopanthus mucronatus (L.) Loesener, uncommon. Swampy woods near Sutherland and Tamarack Pond. (R, 8131 NY).

Euphorbiaceae
Acalypha virginica L., common. Damp roadsides and disturbed sites. (B, 5592).
Chamaesyce vermiculata (Raf.) House (*Euphorbia vermiculata* Raf.), not found. Raup: common. Roads and parking lots. (R, 7888 NYS).
**Euphorbia cyparissias* L., uncommon. Dry, open disturbed sites. (B, 5106).
**Euphorbia esula* L., uncommon. Old building site at the base of Hulse Road. (B, 5224).

Buxaceae
**Pachysandra terminalis*, uncommon. Roadsides. (B, 5638).

Rhamnaceae
Ceanothus americanus L., not found. Raup: common. Openings in south-facing, upper slope woods. (R, 7276 NYS).
**Rhamnus cathartica* L., uncommon. Damp roadsides. (B, 5067).

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Vitaceae

Parthenocissus quinquefolia (L.) Planch., occasional. Rich cove woods. (B, 5487).

Vitis aestivalis Michx., occasional. Lower slope and cove woods. (R, 7396 NY).

Vitis labrusca L., occasional. Lower slope and cove woods near openings. (B, 5366)

Vitis riparia Michx., uncommon. Disturbed sites in coves. (B. 5874).

Linaceae

Linum virginianum L., not found. Raup: rare-occasional. Dry roadsides

Polygalaceae

Polygala sanguinea L., not found. Raup: occasional. Damp, disturbed sites. (R, 7600 NYS).

Polygala verticillata L., uncommon. Raup: rare. Damp, disturbed sites. (B, 5772).

Staphyleaceae

Staphylea trifolia L., not found. Raup: occasional. Old fencerows and in open, slope woods. (R, 7661 NYS).

Aceraceae

Acer pensylvanicum L., common. Lower slopes and coves. (B, 4820).

Acer rubrum L., common. Throughout, especially swampy areas. (B, 5250).

Acer saccharinum L., uncommon. Along Brook Road. (B, 4816).

Acer saccharum Marsh., common. Lower slopes and coves. Often dominant in the coves. (B, 5017).

Acer spicatum Lam., uncommon. Coves along Black Rock Brook and Mineral Spring Brook. (R, 8071 NY).

Anacardiaceae

Rhus copallinum L., not found. Raup: common. Hilltops, cliffs, and open, disturbed slopes. (R, 7312).

Rhus glabra L., not found. Raup: common. Open, disturbed sites. (R, 7549 (NYS)).

Rhus hirta (L.) Sudworth (*R. typhina*), uncommon. Roadsides and open, disturbed sites. (R, 7483 NY).

Toxicodendron radicans (L.) Kuntze (*Rhus toxicodendron*), occasional. Disturbed sites in rich woods. (G, 165086).

Toxicodendron vernix (L.) Kuntze (*Rhus vernix*), not found. Raup: common. Open swampy sites just outside the Forest. (R, 7715 NYS).

Simaroubaceae

**Ailanthus altissima* (Mill.) Swingle—occasional. Raup: not found. Disturbed sites. (B, 5855).

Oxalidaceae

**Oxalis corniculata* L. (*O. europaea*), occasional. Along the roads. (B, 4842).

Oxalis dillenii Jacq. (*O. filipes*), occasional. Roadsides, especially in the coves. (R, 7869 NYS).

Oxalis stricta L. (*O. europaea*), occasional. Roadsides and moist, disturbed sites. (B, 4896).

Geraniaceae

Geranium bicknellii Britt., not found. Raup: occasional. Roadsides.

Geranium carolinianum L., uncommon. Disturbed site along Brook Road. (B, 5505).

Geranium maculatum L., common. Disturbed sites in coves and lower slopes. (C, 4366).

**Geranium robertianum* L., uncommon. Base of Hulse road, near Black Rock Brook. (B, 4947).

Balsaminaceae

Impatiens capensis Meerb. (*I. biflora*), common. Damp, disturbed sites, around the reservoirs, and along streams. (B, 4833).

Impatiens pallida Nutt., uncommon. Along Brook Road near Route 9W. (B, 4839).

Araliaceae

Aralia nudicaulis L., occasional. Coves and lower slopes. (R, 7649 NYS).

Aralia racemosa L., occasional. Coves and slopes. (B, 4957).

**Aralia spinosa* L., uncommon. Disturbed sites. (B, 5988).

Panax trifolius L., occasional. Coves and lower slopes (Schlessman 1991). (B, 5031).

Apiaceae

Angelica venenosa (Greenway) Fern. (*A. villosa*), Not found. Raup: occasional. Roadsides. (R, 7615 NYS).

Cicuta bulbifera L., not found. Raup: rare. Jim's Pond. (R, 7837 NYS).

Cicuta maculata L., uncommon. Open, wet sites. (R, 7928 NYS).

Conium maculatum L., uncommon. Along Brook Road. (B, 4836).

Cryptotaenia canadensis (L.) DC., occasional. Cove woods. (B, 5231).

**Daucus carota* L., uncommon. Open, disturbed sites. (B, 5484).

Heracleum maximum Bartr. (*H. lanatum*), uncommon. Open, moist, disturbed sites.

Hydrocotyle americana L., common. Very wet soil and slow-moving streams. (B, 4857).

Osmorhiza claytonii (Michx.) Clarke, not found. Raup: common. Disturbed sites in cove woods. (R, 7653 NYS).

Sanicula marilandica L., not found. Raup: occasional-common. Damp roadsides (R, 7254 NYS).

Sium suave Walt., not found. Raup: rare. Along Cascade Brook in Glycerine Hollow.

Zizia aptera (A. Gray) Fern. (*Z. cordata*), not found. Raup: occasional. Old clearings and roads. (R, 8166 NYS).

Zizia aurea (L.) Koch, not found. Raup: occasional. Upper slope woods. (R, 7642 NYS).

Gentianaceae

Bartonia virginica (L.) BSP., occasional. Wet woods and open, disturbed sites. (C, 3775).

Gentiana clausa Raf., Not found. Raup: occasional. Damp, disturbed sites. (R, 7901 NY).

Gentianopsis crinita (Froel.) Ma (*Gentiana crinita*), not found. Raup: occasional. Damp, disturbed sites. (R, 7949 NY).

Apocynaceae

Apocynum androsaemifolium L., not found. Raup: occasional-common. Hilltops and dry, disturbed sites. (R, 7316 NY).

Apocynum cannabinum L., uncommon. Disturbed sites. (B, 4937).

Asclepiadaceae

Asclepias exaltata L. (*A. phytolaccoides*), uncommon. Damp, disturbed sites. R, 7305 NYS).

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Asclepias incarnata L., uncommon. Wet, disturbed sites. (B, 5640).
Asclepias quadrifolia Jacq., uncommon. Dry, upper slope woods. (B, 5983).
Asclepias purpurascens L., uncommon. Roadsides. (B, 6275).
Asclepias syriaca L., uncommon. Disturbed site at base of Hulse Road. (B, 5490).
**Cynanchum louiseae* Kartesz & Gandhi, uncommon. Rich woods near Route 9W. (B, 5139).

Solanaceae
**Solanum dulcamara* L., uncommon. Damp, disturbed sites. (B, 5080).
**Solanum nigrum* L., uncommon. Roadsides.

Convolvulaceae
Calystegia sepium (L.) R. Br. (*Convolvulus sepium*), uncommon. Roadsides in cove woods. (B, 5819).
**Convolvulus arvensis* L., uncommon. Disturbed ground. (B, 5490).

Cuscutaceae
Cuscuta gronovii Willd., uncommon. Damp, disturbed sites. (B, 5607).

Menyanthaceae
Nymphoides cordata (Ell.) Fern. (*N. lacunosa*), not found. Raup: common (local). Sutherland Pond. (R, 7751 (NY)).

Boraginaceae
**Echium vulgare* L., uncommon. Roadsides. (B, 5480).
Myosotis laxa Lehm., uncommon. Streams and along reservoirs. (B, 5526).
**Myosotis scorpioides* L., occasional. Along reservoirs. (B, 5561).

Verbenaceae
Phyrma leptostachya L., uncommon. Disturbed ground. (B, 5740)
Verbena hastata L., uncommon. Damp, disturbed sites. (B, 5482).
Verbena urticifolia L., uncommon. Dry, disturbed sites. (B, 5494).

Lamiaceae
**Ajuga reptans* L., occasional. Damp, roadsides in coves. (B, 5096).
**Clinopodium vulgare* L. (*Satureja vulgaris* (L.) Fritsch.), occasional. Distubed sites in coves and lower slopes. (B, 5491).
Collinsonia canadensis L. common. Cove woods along streams and in damp, disturbed sites. (B, 5797).
Cunila origanoides (L.) Britt., occasional. Hilltops, dry woods, roadsides. (B, 6312).
Hedeoma pulegioides (L.) Pers., occasional. Roadsides. (B, 4911).
**Leonurus cardaica* L., uncommon. Disturbed sites near old houses and barns. (B, 5417).
Lycopus uniflorus Michx., common. Along streams, and damp, disturbed sites. (B, 5537).
Lycopus virginicus L., uncommon. Jim's Pond. (C, 5071).
**Mentha arvensis* L., occasional. Disturbed sites, especially roadsides. (B, 5528).
**Nepeta cataria* L., uncommon. Disturbed sites near old buildings. (B, 5433).
**Origanum vulgare* L., not found. Raup: occasional. Roadsides. (R, 7671 NYS)
Prunella vulgaris L., common. Raup: common. Roadsides and damp, disturbed sites. (B, 4944).
Pycnanthemum tenuifolium Schrad. (*P. flexuosum*), uncommon. Open, disturbed sites near Aleck Meadow Reservoir. (B, 5460).
Scutellaria lateriflora L., common. Swamps and the edges of ponds and reservoirs. (B, 5529).

Callitrichaceae
Callitriche palustris L., common. Slow-moving streams and small ponds. (B, 5239).
Callitriche terrestris Raf., uncommon. On dirt roads NYSM: T. NYNHP: G5 S2S3. (Weldy, pers. com.).

Plantaginaceae
**Plantago lanceolata* L., uncommon. Roads and roadsides. (B, 5319).
**Plantago major* L., occasional. Roads and roadsides. (C, 4444).
Plantago rugelii Dcne., occasional. Roadsides. (B, 5605).

Oleaceae
Fraxinus americana L. (*F. pensylvanica* sensu Raup), common. Lower slopes and coves. (B, 4855).
Fraxinus nigra Marsh., not found. Raup: occasional. Coves and swampy sites. (R, 7499 (NY)).
**Syringa vulgaris* L., uncommon. Old house sites. (B, 5634).

Scrophulariaceae
Agalinis tenuifolia (Vahl) Raf. (*Gerardia tenuifolia*), uncommon. Dry, open sites. (B, 4844).
Aureolaria flava (L.) Farwell, uncommon. Roadsides and open slope woods. (B, 5441).
Aureolaria pedicularia (L.) Raf., not found. Raup: occasional. Roadsides and open, dry woods. (R, 7479 NYS).
Aureolaria virginica (L.) Pennell, uncommon. Open woods. (B, 5847).
Chelone glabra L., occasional. Along streams and damp, disturbed sites. (B, 4913).
Gratiola neglecta Torrey, occasional. Damp, disturbed sites. (B, 4879).
**Linaria vulgaris* Mill., occasional. Disturbed sites. (B, 5473).
Melampyrum lineare Desv., occasional. Dry, slope woods and roadsides. (B, 4823).
Mimulus ringens L., occasional. Along streams and edges of ponds and reservoirs. (B, 5493).
Pedicularis canadensis L., occasional. Dry, slope woods. (B, 5108).
**Penstemon tubaeflorus* Nutt., uncommon. Along Brook Road. (B, 5791).
**Verbascum blattaria* L., uncommon. Open, disturbed sites. (B, 6274).
**Verbascum thapsus* L., occasional. Roads and disturbed sites. (B, 5459).
Veronica americana (Raf.) Schwein., uncommon. Around reservoirs. (R, 7581 NYS).
**Veronica arvensis* L.,occasional. Disturbed sites. (B, 5227).
**Veronica officinalis* L., occasional. Disturbed sites. (B, 4905).
Veronica scutellata L., not found. Raup: common. Along the edge of ponds. (R, 7418 NYS).

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**Veronica serpyllifolia* L., occasional. Disturbed sites along the road and spruce plantations. (B, 5102).

Bignoniaceae

**Catalpa bignonioides* Walt., uncommon. Near the parking lot and in burned over woods. (B, 5846).

Orobanchaceae

Conopholis americana (L.) Wallr., uncommon. Rich woods along lower Black Rock Brook. (B, 5181).

Epifagus virginiana (L.) Bartr., uncommon. Rich cove and lower slope woods on roots of beech. (B, 4940).

Orobanche uniflora L., uncommon. Disturbed roadside in Glycerine Hollow. (B, 5046).

Lentibulariaceae

Utricularia minor L., uncommon. NYSM: T. NYNHP: G5 S2S3. Open water in the swamps. (R, 7750 NYS).

Utricularia inflata Walt., uncommon. NYSM: E. NYNHP: G5 S1. Tamarack Pond. (Mitchell et al. 1994).

Campanulaceae

Campanula rotundifolia L., uncommon. Hilltops and cliffs. (R, 7320 NYS).

Lobelia cardinalis L., uncommon. Streams and swamps. (B, 5824).

Lobelia dortmanna L., uncommon. Sutherland Pond. (B, 5828).

Lobelia inflata L., common. Dry, clearings and roadsides. (B, 5618).

Lobelia siphilitica L., uncommon. Clearings near Black Rock Brook. (B, 5726).

Lobelia spicata Lam., occasional. Damp, disturbed sites especially along the roads. (R, 7205 NYS).

Triodanis perfoliata (L.) Nieuwl. var. *perfoliata*, occasional. Damp, disturbed sites. (B, 5370).

Rubiaceae

Cephalanthus occidentalis L., common. Along reservoirs and ponds. (B, 5445).

Galium asprellum Michx., occasional. Disturbed sites near Black Rock Brook. (B, 4917).

Galium boreale L., uncommon. Disturbed ground. (B, 5810).

Galium lanceolatum Torr., occasional. Openings in lower slopes. (R, 7640 NYS).

**Galium mollugo* L., occasional. Disturbed sites and roadsides. (B, 5401).

Galium obtusum Bigel., occasional. Disturbed ground near Aleck Meadow Reservoir. (C, 3774).

Galium tinctorum L, not found. Raup: occasional. Edges of ponds. (R, 7246 NYS).

Galium trifidum L., uncommon. Swampy areas. (R, 7719 NYS).

Galium triflorum Michx., common. Damp to wet, disturbed ground. (B, 5188).

Mitchella repens L., occasional. Slope woods. (B, 4935).

Caprifoliaceae

Diervilla lonicera Mill., uncommon. Upper slope woods, on hilltops, and on cliffs. (B, 5570).

Lonicera dioica L., not found. Raup: occasional. Thickets and disturbed sites. (R, 7328 NYS).

**Lonicera morrowii* A. Gray, uncommon. Disturbed ground near Aleck Meadow Reservoir.

Sambucus canadensis L., uncommon. Disturbed sites. (B, 5389).

Sambucus racemosa ssp. *pubens* (Michx.) House (*S. pubens*), not found. Raup: occasional. Thickets. (R, 8029 NYS).

Viburnum acerifolium L., occasional. Lower slopes and coves. (B, 5238).

Viburnum dentatum L., uncommon. Wet clearings and roadsides. (B, 5306).

Viburnum lentago L., uncommon. Swampy woods. (B, 5715).

Viburnum nudum L. (*V. cassinoides*), occasional. Open, swampy sites. (B, 5079).

Viburnum prunifolium L., occasional. Damp clearings. (C, 4353).

Viburnum rafinesquianum Schultes (*V. affine*), uncommon. Hilltops and openings in slope woods. (B, 6033).

Dipsacaceae

**Dipsacus fullonum* L., uncommon. Roadsides. (B, 6345).

Asteraceae

**Achillea millefolium* L., occasional. Disturbed sites. (B, 5346).

Ambrosia artemisiifolia L., occasional. Disturbed sites. (B, 5606).

Anaphalis margaritacea (L.) Benth. & Hook. f., occasional. Roadsides. (B, 5475).

Antennaria neglecta Greene (*A. neodioica*), occasional. Roadsides and disturbed sites. (B, 5386).

Antennaria plantaginifolia (L.) Rich., occasional. Roadsides. (B, 5077).

**Arctium minus* (Hill.) Bernh., uncommon. Roadsides. (R, 7956 NYS).

Aster acuminatus Michx., occasional. Lower slopes and coves. (C, 3941).

Aster cordifolius L., occasional. Open woods, especially near roads. (B, 5562).

Aster divaricatus L., common. Disturbed sites. (B, 5204).

Aster ericoides L., uncommon. Sphagnum pond dam. (B, 5873).

Aster lanceolatus Willd. (*A. paniculatus* Lam.), uncommon. Damp, disturbed sites. (B, 5616).

Aster lateriflorus (L.) Britt., uncommon. Hilltops and dry roadsides. (C, 4888).

Aster linariifolius L., occasional. Dry, roadsides and hilltops. (B, 4808).

Aster lowrieanus Porter, uncommon. Dry, disturbed sites. (B, 6386),

Aster macrophyllus L., occasional. Damp roadsides. (B, 4938).

Aster novae-angliae L., uncommon. Dry, disturbed sites. (B, 4915).

Aster patens Ait., uncommon. Dry, disturbed sites. (R, 7942 NYS).

Aster paternus Cronq. (*Seriocarpus asteroides*), uncommon. Disturbed sites and roadsides. (C, 3777).

Aster pilosus var. *pringlei* (A. Gray) Blake, occasional. Disturbed sites, often along the edges of reservoirs. (B, 5613).

Aster puniceus L., uncommon. Damp disturbed sites and at the edges of the reservoirs.

Aster racemosus Ell., uncommon. Damp, disturbed sites. (B, 5457).

Aster schreberi Nees., occasional. Disturbed sites. (B, 5869).

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Aster umbellatus Mill., occasional. Damp disturbed sites. (B, 5612).
Bidens cernuua L., common. Edges of the reservoirs and disturbed sites along streams. (B, 4918).
Bidens connata Muhl., uncommon. Edges of the reservoirs.
Bidens coronata (L.) Britt., uncommon. Damp, disturbed sites. (B, 4891).
Bidens frondosa L., uncommon. Edges of reservoirs and openings along streams. (R, 7971 NYS).
**Centaurea nigra* L., occasional. Open, disturbed sites. (B, 5611).
**Cichorium intybus* L., uncommon. Roadsides.
**Cirsium arvense* (L.) Scopoli, uncommon. Damp, disturbed sites, especially roadside ditches. (B, 5388).
Cirsium discolor (Muhl.) Spreng., uncommon. Damp, open, disturbed sites. (B, 5619).
**Cirsium vulgare* (Sav.) Tenore (*C. lanceolatum*), not found. Old fields and clearings. (R, 7777 NYS).
Conyza canadensis (L.) Cronq. (*Erigeron canadensis*), common. On and along the roads. (B, 5595).
Erectites hieracifolia (L.) Raf., occasional. Disturbed sites, especially roadsides. (B, 5431).
Erigeron annuus (L.) Pers. (*E. ramosus*), occasional. Disturbed sites. (B, 5364).
Erigeron philadelphicus L. (*E. canadensis*), uncommon. Disturbed sites. (B, 5098).
Erigeron pulchellus Michx., occasional. Open, disturbed sites. (B, 5730)
Eupatorium perfoliatum L., uncommon. Open, disturbed sites. (B, 5754).
Eupatorium purpureum L., occasional. Disturbed sites, especially roadsides. (B, 4956).
Eupatorium rugosum Houtt. (*E. urticifolium*), occasional. Disturbed sites in rich woods. (B, 4834).
Eupatorium sessilifolium L., uncommon. Open, upper slope woods.
Euthamia graminifolia (L.) Nutt., occasional. Open, disturbed sites. (B, 4919).
**Galinsoga quadriradiata* Ruiz & Pavon (*G. ciliata*), occasional. Recently disturbed sites. (B, 4942).
Gnaphalium obtusifolium L., uncommon. Disturbed sites. (B, 4912).
**Gnaphalium uliginosum* L., uncommon. Damp, disturbed sites. (B, 5449).
Helianthus decapetalus L., occasional. Damp, open sites. (B, 5477).
Helianthus divaricatus L., uncommon. On roadsides and hilltops. (B, 5808).
Heliopsis helianthoides (L.) Sweet, uncommon. Just outside the Forest near the Upper Reservoir. (B, 5825).
**Hieracium aurantiacum* L., not found. Old clearings. (R, 7548 NYS).
**Hieracium caespitosum* Dumort. (*H. pratense*), uncommon. Open, disturbed sites. (B, 5719).
Hieracium paniculatum L., occasional. Dry, upper slope woods and roadsides. (B, 4824).
Hieracium venosum L., uncommon. Old clearings and old fields. (B, 5078).
Krigia biflora (Walt.) Blake, not found. Raup: rare. Moist woods.
Krigia virginica (L.) Wild., not found. Hilltops. (R, 8173 NYS).
Lactuca canadensis L., not found. Disturbed sites. (R, 7780 NYS).
**Lapsana communis* L., occasional. Disturbed sites. (B, 5175).
**Leucanthemum vulgare* Lam. (*Chrysanthemum leucanthemum*), uncommon. Disturbed sites. (B, 5176).
Prenanthes altissima L., uncommon. Damp, disturbed sites. (B, 4894).
Prenanthes trifoliata (Cass.) Fern., not found. Raup: common. Roadsides. (R, 7815 NYS).
**Rudbeckia hirta* L., uncommon. Along the roads. (B, 4843).
Senecio obovatus Muhl., occasional. Rich woods, lower slopes and coves. (B, 5049).
Solidago arguta Ait., not found. Raup: common-abundant. Roadsides and upper slope woods. (R, 7886 NYS).
Solidago bicolor L., occasional. Upper slope woods, hilltops and, roadsides. (B, 4909).
Solidago caesia L., common. Disturbed sites and openings in slope woods. (B, 4899).
Solidago canadensis L, common. Disturbed sites and roadsides. (R, 7827 NYS).
Solidago flexicaulis L., uncommon. Disturbed sites in cove woods and near limestone erratics. (B, 4835).
Solidago juncea Ait., common. Disturbed sites. (B, 4822).
Solidago odora Ait., not found. Raup: occasional. Dry, upland woods and roadsides. (R, 7771 NYS).
Solidago puberula Nutt., not found. Dry thickets and meadows. (R, 7910 NYS).
Solidago rugosa Mill., occasional. Disturbed sites. (B, 5604).
Solidago squarrosa Muhl., uncommon. Hilltops. (B, 5583).
Solidago ulmifolia Muhl., occasional. Roadside near parking lot. (B, 5838).
**Taraxacum laevigatum* (Wild) DC., occasional. Roadsides. (B, 5294).
**Taraxacum officinale* L. (*T. palustre* var. *vulgare*), not found. On roads and roadsides. (R, 8007 NYS).
**Tussilago farfara* L., occasional. Recently disturbed sites, especially roadsides. (B, 5025).
Xanthium strumarium L., uncommon. Disturbed sites in rich woods. (B, 5815).

Monocotyledonae

Alismataceae

Alisma subcordatum Raf. (*A. plantago-aquatica*), uncommon. Edge of ponds. (R, 7691 NYS).
Sagittaria graminea Michx., uncommon. Swamp near Sutherland Pond. (G, 3846)
Sagittaria latifolia Willd., uncommon. Swamp near Sutherland Pond.

Hydrocharitaceae

Elodea nuttallii (Planch.) St. John, uncommon. Sawmill pond along Black Rock Brook. (B, 5193).

Potamogetonaceae

Potamogeton natans L., not found. Raup: rare-occasional. Sutherland Pond.
Potamogeton spirillis Tuckerm., uncommon. Brook and fen below Sphagnum Pond dam. (B, 5610).

Araceae

Arisaema triphyllum (L.) Schott, common. Rich, wet, coves and swampy woods. (B, 5054).
Calla palustris L., uncommon. Swamp below Jim's Pond. (R, 8136 (NYS)).

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Peltandra virginica (L.) Schott, uncommon. Swamp south of Sutherland Pond. (R, 7743 NYS).

Symplocarpus foetidus (L.) Salisb.,uncommon. Swampy woods near Continental Road. (B, 4978).

Lemnaceae

Lemna minor L., uncommon. Pond at Annie's Cabin. The determination is tentative.

Commelinaceae

**Commelina communis* L., occasional. Damp, disturbed sites. (B, 5488).

Eriocaulaceae

Eriocaulon aquaticum (Hill) Druce (*E. septangulare*), occasional. Shallow water of the ponds and reservoirs. (B, 5897).

Juncaceae

Juncus acuminatus Michx., occasional. Edges of ponds and reservoirs. (W, 2070).

Juncus brevicaudatus (Engelm.) Fern., not found. Raup: rare. Formerly found near Tamarack Pond. (R, 7593 NYS).

Juncus canadensis Gay, occasional. Edges of the ponds and reservoirs. (C, 4463).

Juncus debilis A. Gray, not found. Raup: occasional NYSM: E. NYNHP: G5 S1. Swampy thickets. (R, 7585 NY).

Juncus dichotomus Ell. (*J. tenuis* var. *dichotomus*), not found. Raup: rare. swampy thickets

Juncus effusus L., common. Damp roadsides and along pond edgess. (B, 5362).

Juncus marginatus Rostk., uncommon. Near Aleck Meadow Reservoir. (C, 3776).

Juncus tenuis Willd., common. Damp roadsides and pond edges. (B, 5521).

Luzula campestris (L.) DC., common. Along trails, roads,and dry, disturbed sites. (B, 5046).

Cyperaceae

Carex aestivalis M. A. Curtis, uncommon. Along Brook Road. (B, 5532).

Carex albicans var. *albicans* Willd., uncommon. Along Brook Road. (C, 4349).

Carex albicans var. *emmonsii* (*C. varia*), not found. Raup: occasional. Upper slope woods.

Carex albursina Sheldon, not found. Raup: occasional. Slope woods. (R, 8054 NYS).

Carex annectens (Bickn.) Bickn. (*C. vulpinoidea*) B common. Wet, disturbed sites. (B, 5412).

Carex argyrantha Tuckerm. (*C. foena*), occasional. Disturbed sites and open woods. (C, 3783).

Carex atlantica ssp. *capillacea* (Bailey) Reznicek (*C. howei*), occasional. Pond edges and damp, disturbed sites. (B, 5056).

Carex blanda Dewey, uncommon. Aleck Meadow Reservoir and near the Chlorinator. (C, 4390).

Carex bromoides Schkuhr, uncommon. Swampy woods and along streams. (R, 8137 NY).

Carex brunnescens (Pers.) Poir., occasional. Wet or swampy woods. (B, 5446).

Carex canescens L., uncommon. Edges of ponds and reservoirs. (R, 8139).

Carex cephalophora Muhl., not found. Raup: occasional. Dry, slope woods. (R, 7273).

Carex communis Bailey, occasional. Dry, slope woods. (B, 5167).

Carex comosa Boott, occasional. Glycerine Hollow swamp and pond edges. (B, 5147).

Carex crinita Lam., occasional. Glycerine Hollow swamp pond edges. (B, 5301).

Carex debilis Michx. var. *debilis*, occasional. Glycerine Hollow swamp. (B, 6642).

Carex digitalis Willd., occasional. Damp, disturbed sites, especially in coves. (B, 5522).

Carex disperma Dewey, uncommon. Along Black Rock Brook. (B, 5492).

Carex festucacea Schkuhr, uncommon. Edges of ponds and reservoirs. (C, 3770).

Carex foena Willd., not found. Raup: occasional. Upper slope woods. (B, 6441)

Carex gracillima Schwein., occasional. Lower slopes and coves. (B, 5440).

Carex granularis Muhl., not found. Raup: occasional. Pond margins. This species is generally a calciphile and, if found in the Forest, would be quite rare. (R, 7423 NYS).

Carex gynandra Schwein. (*C. crinita* var *gynandra*), occasional. Pond edges. (R, 7233 NY).

Carex hirsutella Mackz. (*C. triceps*), not found. Wet open sites. (R, 7467 NYS).

Carex interior Bailey, uncommon. Raup: not found. Swamps. (B, 5146).

Carex intumescens Rudge, occasional. Open, wet sites, especially near ponds and reservoirs. (B, 5153).

Carex laevivaginata (Kük.) Mackenzie, uncommon. Swamp below Jim's Pond. (Barbour, pers. comm.)

Carex laxiculmis Schwein., uncommon. Along Brook Road. (B, 6636).

Carex laxiflora Lam. (*C. anceps* Willd.), uncommon. Cove woods. (B, 5706).

Carex leptalea Wahl., not found. Raup: common. Wet places in the coves. (R, 7450 NY).

Carex lucorum Willd., uncommon. Upper slopes and hilltops. (R, 7245 NYS).

Carex lurida Wahl., common-abundant. Pond edges and wet openings in lower slope and cove woods. (B, 5410).

Carex muhlenbergii Schk., uncommon. Pine plantations along Continental Road. (Barbour, pers. com)

Carex normalis Mackz., uncommon. Aleck Meadow. (C, 4383).

Carex novae-angliae Schw., uncommon. Swampy woods. (B, 5263).

Carex oligocarpa Schk., uncommon, along Brook Road. (B, 6635)

Carex pallescens L., uncommon. Damp roadsides. (R, 7464 NY).

Carex peckii Howe, uncommon. Rich cove woods near Route 9W. (C, 4349).

Carex pedunculata Muhl., occasional. Along streams in cove woods. (B, 5015).

Carex pensylvanica Lam., common. Dry, slope woods. (B, 4960).

Carex platyphylla Carey, occasional. Lower slope and cove woods. (C, 4350).

Carex prasina Wahl., occasional. Near streams in the wet, cove woods. (B, 6644).

Carex radiata (Wahl.) Small (*C. rosea* var. *radiata*), occasional. Damp, cove woods. (B, 5711).

Carex rosea Schk. (*C. convoluta*), common. Damp sites in the cove and lower slope woods. (B, 5331).

Carex scabrata Schwein., uncommon. Swampy sites in the coves. (R, 7446).

Carex scoparia Schkuhr, common. Pond edges and wet roadsides. (B, 5357).

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Carex sparganioides Muhl., not found. Raup: occasional. Rocky slopes. (R, 7638 NY).
Carex stipata Muhl., common. Swamps and along streams in the lower slope and cove woods. (B, 5129).
Carex stricta Lam., common. Open, swampy ground. (B, 5145).
Carex swanii (Fern.) Mackz. (*C. virescens* var. *swanii*), uncommon. Upland woods and ridges. (C, 5421).
Carex torta Boott, uncommon. Along streams in the cove woods. (C, 4342).
Carex tribuloides Wahl., not found. Raup: occasional. Near ponds and reservoirs. Some of the specimens identified as *C. scoparia* may be this species. (R, 7437 NYS).
Carex virescens Muhl., occasional. Slope woods. (B, 5440).
Carex vulpinoidea Michx., common. Wet, disturbed soils. (B, 5394).
Cyperus strigosus L., common. Edges of ponds and reservoirs and wet disturbed sites. (B, 5609).
Dulichium arundinaceum (L.) Britt., uncommon. Swamps south of Sutherland Pond. (B, 5348).
Eleocharis acicularis (L.) R. & S., occasional. Pond edges. (B, 5311).
Eleocharis elliptica Kunth (*E. capitata*), uncommon. Below Sphagnum Pond Dam. (B, 5312).
Eleocharis obtusa (Willd.) Schultes, common. Edges of reservoirs and ponds in shallow water. (B, 5268).
Eleocharis palustris (L.) R. & S., occasional. Shallow water in ponds, especially Sutherland Pond. (G, 3848).
Scirpus atrovirens Muhl., common. Along the edge of ponds and reservoirs. (B, 5363).
Scirpus cyperinus (L.) Kunth, common. Wet, open sites, especially along the edge of ponds and reservoirs. (B, 4880).
Scirpus hattorianus Makino (*S. planifolius*), uncommon. Near reservoirs and ponds. (R, 7235 NYS).
Scirpus verecundus Fern., uncommon. Wet woods near Upper Reservoir (B, 5268).

Poaceae

**Agrostis capillaris* L. (*A. tenuis*), occasional. Roadsides and disturbed sites. (B, 6086).
**Agrostis gigantea* Roth, occasional. Moist to wet, open sites. (B, 5384).
Agrostis hiemalis (Walt.) BSP., occasional. Damp, disturbed sites. (B, 5384).
Agrostis perennans (Walt.) Tuckerm., uncommon. Glycerine Hollow. (C, 3925).
Agrostis scabra Willd., occasional. Moist, disturbed sites edges of reservoirs. (C, 3935).
Agrostis stolonifera L., occasional. Moist, disturbed sites and edges of reservoirs. (B, 4887).
Andropogon gerardii Vitm., uncommon. Carpenter Road overlooking Glycerine Hollow. (C, 3919).
**Anthoxanthum odoratum* L., common. Dry, disturbed sites, especially roadsides and trails. (B, 5163).
**Arrhenatherum elatius* (L.) Beauv., not found. Old fields and roadsides. (R, 7489). (NY).
**Avena sativa* L., not found. Along the roads. (R, 7579 NYS).
Brachyeletrum erectum (Schreb.) Beauv., occasional. Slope woods and disturbed sites. (C, 3928).
Brachyelytrum septentrionale (Babel) G. Tucker, occasional. Disturbed sites. (C, 3768).
Bromus ciliatus L., not found. Raup: occasional. Roadsides. (R, 7930).
**Bromus commutatus* Schrader, uncommon.Open, disturbed sites. (C, 4377).
**Bromus inermis* Leyss., uncommon. Open, disturbed sites. (C, 4384).
Bromus pubescens Muhl. (*B. purgans*), uncommon. Rocky, upper slope woods. (B, 5733).
Calamagrostis canadensis (Michx.) Beauv., occasional. Damp, disturbed sites and damp openings in slope woods. (R, 7596 NY).
Calamagrostis cinnoides (Muhl.) Barton, uncommon. Damp, disturbed sites in cove woods. (R, 7852 NYS).
Cinna arundinacea L., occasional. Damp, cove woods. (B, 5617).
Dactylis glomerata L., uncommon. Open, disturbed sites. (B, 5166).
Danthonia compressa Austin, uncommon. Dry, disturbed sites. (B, 5451).
Danthonia spicata (L.) Beauv., common. Hilltops and upper slope woods. (B, 5365).
Deschampsia flexuosa (L.) Trin., common. Hilltops, upper slope woods, and roadsides. (B, 5418).
**Digitaria ischaemum* (Schreb.) Schreb., uncommon. Disturbed sites and roadsides. (R, 7904 NY).
**Echinchloa crusgalli* (L.) Beauv., uncommon. Damp to wet, open, disturbed sites. (B, 5534).
Echinochloa muricata (Michx.) Fern., not found. Raup: common. Wet areas, especially near the reservoirs. (R, 7906 NY).
Elymus hystrix L. (*Asprella hystrix*), occasional. Dry slope woods and in disturbed sites. (B, 5376).
Elymus riparius Wieg., uncommon. Edge of the reservoirs. (B, 5578).
Elymus villosus Muhl., uncommon. Open, disturbed sites. (C, 3769).
**Elytrigia repens* (L.) Nevski (*Agropyron repens*), not found. Raup: occasional-common. Disturbed sites. (R, 7441 NYS).
**Festuca rubra* L., uncommon. Recently planted to cover construction, not expected to persist. (B, 5373).
Festuca subverticillata (Pers.) Alexe'ex (*F. obtusa* Spreng.), uncommon. Damp to wet openings in cove woods. (B, 5164).
Glyceria canadensis (Michx.) Trin., common. Edges of ponds and open swamps. (B, 5307).
Glyceria melicaria (Michx.) Hubb., occasional. Along the streams in cove woods. (R, 7207 NYS).
Glyceria striata (Lam.) Hitchc., uncommon. Along streams and ponds. (B, 5731).
Leersia oryzoides (L.) Sw., uncommon. Open, wet sites, especially near streams. (C, 4464).
Leersia virginica Willd., common. Wet woods and roadsides. (B, 4881).
**Lolium perenne* L. (*L. multiflorum*), occasional. Open, damp, disturbed sites. (B, 5333).
**Lolium pratense* (Hudson) S. Darbyshire (*Festuca elatior*), not found. Raup: occasional. Old clearings and roadsides. (R, 7516 NYS).
**Microstegium vimineum* (Trin.) A. Camus, uncommon. Spreading along Continental road. (B, 6384).
Muhlenbergia mexicana (L.) Trin., uncommon. Damp roadsides and pond edges. (B, 4883).
Muhlenbergia schreberi J. F. Gmel., occasional. Edge of Aleck Meadow Reservoir. (B, 5594).

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Muhlenbergia tenuiflora (Willd.) BSP., occasional. Dry sites in the slope woods. (B, 5404).
Oryzopsis asperifolia Michx., not found. Raup: occasional. Dry upland woods. (R, 7274 (NYS)).
Oryzopsis racemosa (Sm.), not found. Raup: occasional. Summit of Mt. Misery. (R, 7767 (NY)).
Panicum acuminatum Sw. (*P. lindheimeri*) common. Hilltops, upper slope woods, and roadsides. (B, 4901).
Panicum capillare L., not found. Raup: occasional-common. On roadsides. (R, 7899 NYS).
Panicum clandestinum L., uncommon. Wet, disturbed ground near Arthur's Pond dam. (B, 5316).
Panicum commutatum Schultes, uncommon. On the ridges overlooking Glycerine Hollow. (C, 3916).
Panicum dichotomum L., occasional. Slope woods and roadsides. (C, 3780).
Panicum depauperatum Muhl., not found. Roadsides. (B, 5344).
Panicum dichotomiflorum Michx., uncommon. Disturbed ground near parking lot. (B, 5732).
Panicum latifolium L., common. Upper slope woods and hilltops. (C, 4376).
Panicum linearifolium Scribn., occasional. Dry roadsides. (C, 4839).
Panicum rigidulum Nees, uncommon. Arthur's Pond dam. (B, 5598).
Phalaris arundinacea L.,uncommon. Disturbed sites along Brook Road. (B, 5506).
**Phleum pratense* L., uncommon. Open, disturbed sites. (B, 5165).
**Phragmites australis* (Cav.) Trin., uncommon. Edges of reservoirs. (B, 5752).
**Poa annua* L., occasional. Roadsides.
**Poa compressa* L., uncommon. Roadsides. (R, 7248 NY).
**Poa nemoralis* L., uncommon. Arthur's Pond dam. (B, 5343).
Poa palustris L., uncommon. Damp roadsides and the edges of reservoirs. (R, 7419 NYS).
**Poa pratensis* L., occasional. Disturbed sites and sometimes planted at constructions sites. (B, 5476).
Schizachyrium scoparium (Michx.) Nash (*Andropogon scoparius*), common. Hilltops and open, dry, disturbed sites. (B, 4821).
**Setaria faberi* Herrm., uncommon. Open, disturbed sites. (B, 6346).
**Setaria pumila* (Poir.) Schultes *(S. lutescens*), occasional. Disturbed sites, especially roadsides. (B, 4904).
Sorghastrum nutans (L.) Nash B uncommon. Ridges overlooking Glycerine Hollow. (C, 3920).
Sphenopholis obtusata (Michx.) Scribn. var. *obtusata* (*S. pallens*), Not found. Raup: occasional. Roadsides. NYSM: E. NYNHP: G5T5 S1 (R, 7535 NY).

Sparganiaceae
Sparganium americanum Nutt., uncommon. Shallows in Sutherland Pond, Jim's Pond, and swamps. (B, 5347).

Typhaceae
Typha angustifolia L., uncommon. Wet, open, disturbed sites. (B, 5381).
Typha latifolia L., uncommon. Wet, open, disturbed sites. (B, 5485).

Pontederiaceae
Pontederia cordata L., uncommon. Sutherland Pond (G, 3838).

Liliaceae
Allium tricoccum Ait., uncommon. Near parking lots.
**Allium vineale* L., occasional. Damp, disturbed sites, especially along Continental Road. (B, 5427).
Erythronium americanum Ker, occasional. Cove woods. (B, 5026).
**Hemerocallis fulva* (L.) L., uncommon. Disturbed woods along Reservoir road.
Hypoxis hirsuta (L.) Cov., occasional. Damp roadsides and trails. (B, 5048).
Lilium canadense L., not found. Raup: occasional. Old meadows. (R, 7605 GH).
Lilium philadelphicum L., uncommon. Thickets and in the old enclosure near Sutherland Pond. (R, 7478 NY).
Maianthemum canadense Desf., occasional. Upper and lower slopes. (B, 5053).
Maianthemum racemosum L. (*Smilacina racemosa*), occasional. Lower slopes and coves. (B, 5092).
Medeola virginiana L., occasional. Coves and lower slopes. (B, 5714).
**Ornithogalum umbellatum* L., uncommon. Trail near the Chlorinator. (B, 5085).
Polygonatum biflorum (Walt.) Ell., occasional. Upper slopes and hilltops. (B, 4922).
Polygonatum pubescens (Willd.) Pursh, uncommon. Upper and lower slopes. (C, 4348).
Streptopus roseus Michx., uncommon. Lower slopes and coves. (B, 5713).
Trillium erectum L., uncommon. Lower slopes. (B, 5022).
Uvularia perfoliata L., occasional. In cove woods. (B, 5246).
Uvularia sessilifolia (L.) Wats. (*Oakesiella sessilifolia*), occasional. Slopes and coves. (R, 7272 NYS).
Veratrum viride Ait., occasional. Swampy woods and along streams. (B, 5986).

Iridaceae
Iris versicolor L., occasional. Near ponds, reservoirs and in swampy woods. (C, 4393).
Sisyrinchium angustifolium Mill. (*S. graminoides*) , occasional. Damp disturbed sites, especially roadsides. (B, 5082).
Sisyrinchium mucronatum Michx., not found. NYSM: E. NYNHP: G5 S1. (S, 41176 NYS)

Smilacaceae
Smilax herbacea L., uncommon. Damp, disturbed sites in coves.
Smilax rotundifolia L, uncommon. Damp roadsides. (B, 4974).

Dioscoreaceae
Dioscorea villosa L., not found. Raup: occasional. Damp, roadside thickets. (R, 7826 NYS).

Orchidaceae
Corallorhiza odontorhiza (Willd.) Nutt., occasional. Moist to wet, lower slopes. (B, 4851).
Cypripedium acaule Ait., uncommon. Lower and upper slopes. (R, 7218 NYS).
Cypripedium parviflorum Salisb., not found. Raup: rare. Swampy woods.
**Epipactis heleborine* (L.) Crantz, uncommon. Roads and roadsides. (B, 5500).

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Goodyera repens (L.) R. Br., uncommon. Hemlock coves. (B, 4869).

Malaxis bayardii Fern. (*Malaxis unifolia* sensu Raup), not found. Raup: rare. NYSM: E. NYNHP: G2? S1. Dry woods south of Jim's Pond. (R, 7575 NY, NYS).

Platanthera flava var. *herbiola* (R. Br.) Luer (*Habenaria flava*), not found. Raup: occasional. Damp thickets. (R, 7426 NY).

Platanthera lacera (Michx.) G. Don, uncommon. Old clearing across from the Stone House. (B, 5425).

Platanthera psycodes (L.) Lindl. (*Habenaria psychodes*), not found. Raup: rare. Old fields. (R, 7825 NYS).

Spiranthes cernua (L.) L. Rich., not found. Raup: occasional. Disturbed sites, found just outside the Forest at the Upper Reservoir. (R, 7884 NYS).

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