

CHECKLIST OF THE VASCULAR PLANTS OF INDIANA COUNTY, PENNSYLVANIA

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ABSTRACT

Indiana County, Pennsylvania has been formally botanized since 1883, but a checklist of the county's vascular flora has not previously been compiled. A search of herbaria augmented by targeted fieldwork has resulted in a list of 1004 taxa of native and naturalized plants comprising 463 genera and 125 families. The five families with the largest number of taxa are Asteraceae, Poaceae, Cyperaceae, Rosaceae, and Lamiaceae. *Carex*, *Viola*, *Solidago*, *Symphyotrichum*, and *Pericaria* are the five largest genera. There are approximately 193 non-native species that have been introduced mainly from Europe and Asia. This checklist recognizes 51 species of Pteridophytes, 8 species of Gymnosperms and 929 species of Angiosperms. Fifteen species have global or state ranking.

RESUMEN

Indiana County, Pennsylvania ha sido formalmente muestreada botánicamente desde 1883, pero no se había compilado previamente un catálogo de la flora vascular del condado. Una búsqueda en herbarios incrementada por trabajos de campo ha dado como resultado una lista de 1004 taxa de plantas nativas y naturalizadas de 463 géneros y 125 familias. Las cinco familias con mayor número de taxa son Asteraceae, Poaceae, Cyperaceae, Rosaceae, y Lamiaceae. *Carex*, *Viola*, *Solidago*, *Symphyotrichum*, y *Pericaria* son los cinco géneros más grandes. Hay aproximadamente 193 especies exóticas que se han introducido de Europa y Asia. En este catálogo se reconocen 51 especies de Pteridófitos, 8 especies de Gimnospermas y 929 especies de Angiospermas. Quince especies están amenazadas a nivel global o de estado.

INTRODUCTION

Even though Pennsylvania lacks checklists for most of its counties, the vascular flora known thus far is quite diverse. Rhoads and Klein (1993) reported 3318 taxa of vascular plants for the state, including 2076 native and 1242 introduced. Approximately 26 of Pennsylvania's 67 counties have floras completed, but some are unpublished theses and surveys and therefore unavailable to the public. The exact number of genera and species in the flora of Indiana County was not previously known because a checklist had never been compiled. Such checklists provide baseline information that can be used to monitor environmental changes and guide conservation decisions.

Site Description

Indiana County, Pennsylvania, is located in the western-central part of the state (Fig. 1). It is bordered by Jefferson County to the north, Clearfield County to the northeast, Cambria County to the southeast, Westmoreland County to the south, and Armstrong County to the west. The county contains approximately 321 sq. mi.

Indiana County receives a total annual precipitation of approximately 46 inches. Average seasonal snow-fall is 57 inches annually.

The average date of the last frost in the spring is usually around May 15th and the first frost of the season is approximately October 5th. The length of the growing season, from the last killing frost in spring to the first killing frost in autumn, is between 121–180 days.

The soils of the county consist of eight main series: Gilpin-Weikert-Ernest association, Gilpin-Wharton-Cavode association, Gilpin-Clymer-Wharton association, Gilpin-Wharton-Upshur association, Gilpin-Westmoreland-Guernsey association, Dekalb-Clymer-Cookport association, Dekalb-Clymer-Ernest association, and Monongahela-Allegheny-Pope-Philo association.

Indiana County Pennsylvania

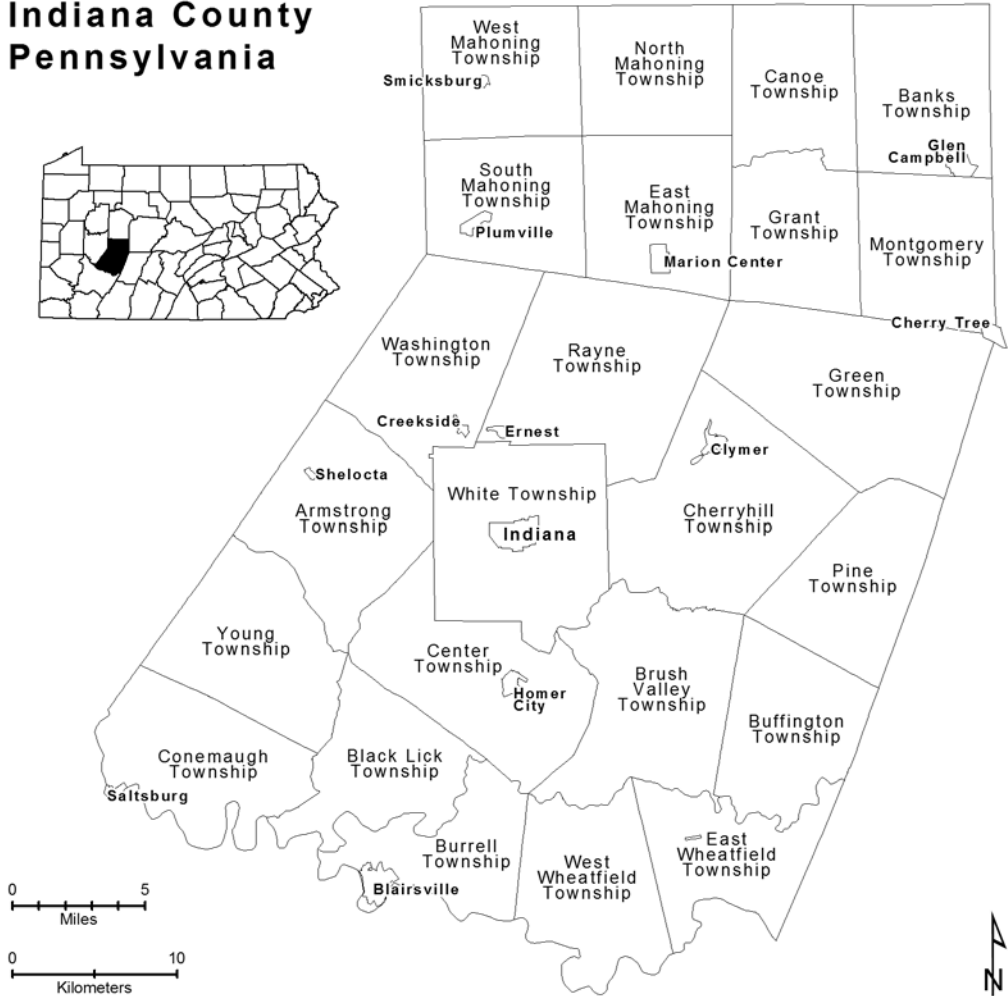
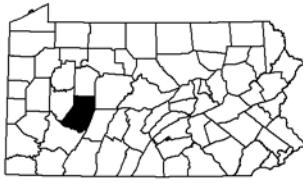


FIG. 1. Small map contains Counties in Pennsylvania. Larger map consists of a major river, streams and municipalities in Indiana County.

Rolling hills with narrow to broad, rolling ridgetops characterize the Gilpin-Weikert-Ernest association. Sandstone-capped ridgetops, remnants of an old plateau, are in the north-central part. The narrow stream-cut valleys contain numerous small streams. This association occurs mainly in the western part of the county but extends to the central and north-central parts and makes up about 32 percent of the county. These soils range from shallow to moderately deep to deep and are somewhat poorly drained to moderately well-drained. Much of the association is idle and has been taken over by brush and weeds. Farmsteads, residential housing and highways are on the gently sloping hills.

Gilpin-Wharton-Cavode association is characterized by broad, sloping hilltops and narrow valleys carved out by streams that form a branching pattern. This area is mainly in the northern and central parts of the county and covers about 19 percent of the county. The soil ranges from shallow to moderately deep and is poorly to well-drained. The gentle and moderate slopes of this association were used for agriculture. Strip mining is common in this association.

Rolling hills with gently sloping, plateau-like hilltops characterize the Gilpin-Clymer-Wharton associa-

tion. Streams with narrow floodplains form a branching pattern flowing into the Conemaugh River. This association covers about 10 percent of the county and is confined to the southeastern part. The soils range from shallow to moderately deep and are poorly drained to well-drained. The association is suitable for agriculture.

Gilpin-Wharton-Upshur association has broad and gentle uplands, sloping banks, and steep hills. Slopes range from gentle near stream headwaters to strong downstream. The soils are moderately deep to deep and moderately to well-drained. This soil association occurs mainly in the southwestern and central parts of the county and makes up about 6 percent of the county. Much of this area has been cleared. Some of the cleared areas are under continued suburban development while others are used for recreation, are farmed or remain idle. Artificial drainage is needed in many areas while other areas are susceptible to landslides.

Gilpin-Westmoreland-Guernsey association is dissected by many small streams. The topography is rolling and hilly and includes some gently sloping benches, saddles, and hilltops. This association is at the southwestern edge of the county and occupies about 1 percent of the county. The soils are moderately deep and well-drained or somewhat poorly drained. Much of the area is taken up by dairy farms.

Dekalb-Clymer-Cookport association is comprised of broad, gently rolling ridgetops and narrow stream-cut valleys with steep sides. The lower part of the valley slopes, along the floodplains, contain many large boulders from the sandstone uplands. This association occurs in the eastern and northern part of the county and makes up about 14 percent of the county. The soils are shallow to moderately deep and poorly drained to well-drained. Woods, woodland pasture and converting farmland covers most of this association. Residential development is mostly along improved highways.

Dekalb-Clymer-Ernest association contains narrow to broad floodplains along small streams and the Conemaugh River, and includes the steep slopes that rise from the floodplains. Large fragments of sandstone have washed down to the lower part of the valley and floodplains. This association is in the southeastern part of the county and covers about 11 percent of the county. The soils are shallow to deep, very stony, and somewhat poorly drained to well-drained. This association is mostly woodland.

Monongahela-Allegheny-Pope-Philo association consists of the first and second bottoms of the larger streams, and includes meandering streams, smooth floodplains, and dissected terraces. The association is in the southeastern part of the county and covers about 7 percent of the county. The soils are deep and moderately well-drained to somewhat poorly drained. Intense farming has occurred on the well-drained floodplains, while some areas have recently been developed for industrial and residential use. (USDA 1968).

Indiana County consists of a hilly region on the Allegheny Plateau that rises to the Allegheny Mountains and is drained by the Crooked, Yellow, Two Lick, Blacklick, and Little Mahoning creeks. Other bodies of water include the Conemaugh River, which bounds Indiana County to the south, and Yellow Creek Lake, which is surrounded by Yellow Creek State Park.

Indiana County contains six major watersheds. These major watersheds are grouped into three subbasin categories: the Central Allegheny Subbasin, the Lower Allegheny Subbasin, and the Upper West Branch Susquehanna Subbasin.

The Central Allegheny Subbasin has a total drainage area of 2930 square miles. This subbasin includes the portion of the Allegheny River between Emlenton and Clinton. This subbasin encompasses almost all of Jefferson County, much of Clarion, Armstrong, Elk, Indiana and portions of Butler, Forest, McKean, and Clearfield counties.

The Central Allegheny Subbasin contains the Cowanshonnock-Crooked Creeks Watershed, the Lower Clarion River Watershed, the Mahoning Creek Watershed, the Redbank Creek Watershed and the Upper Clarion River Watershed. The Cowanshonnock-Crooked Creeks and Mahoning Creek Watersheds drain northern Indiana County.

The Cowanshonnock-Crooked Creeks Watershed has a total drainage area of 502 square miles and its major streams include Cowanshonnock Creek and Crooked Creek. Crooked Creek flows west to east through the east central portion of Indiana County.

The Mahoning Creek Watershed has a total drainage area of 444 square miles and its major waterways

include Mahoning Creek and Little Mahoning Creek. Mahoning Creek lies in the extreme northern portion of the county, and the Little Mahoning Creek flows through the northern portion of Indiana County.

The Lower Allegheny Subbasin has a total drainage area of 2394 square miles. It includes the lowermost portion of the Allegheny River from Clinton to Pittsburgh, including the entire Kiskiminetas-Conemaugh River system. The subbasin encompasses much of Allegheny, Indiana, Cambria, Somerset and Westmoreland Counties with portions of Butler and Armstrong Counties. Watersheds of the Lower Allegheny Subbasin that drain Indiana County include the Conemaugh River-Blacklick Creek Watershed, the Kiskiminetas River Watershed, and the Loyalhanna Creek Watershed.

The Conemaugh River-Blacklick Creek Watershed has a total drainage area of 700 square miles and its major waterways include Blacklick Creek, Two Lick Creek and the middle portion of the Conemaugh River. These waterways drain the southern portion of Indiana County.

The Kiskiminetas River Watershed has a total drainage area of 164 square miles and its major waterways include Kiskiminetas River, which drains a small portion of southwestern Indiana County, and Beaver Run.

Loyalhanna Creek Watershed consists of 370 square miles of total drainage area and includes Blacklegs Creek and the lower portion of the Conemaugh River. These waterways also drain the southwestern portion of Indiana County.

The Upper West Branch Susquehanna Subbasin has a total drainage area of 2631 square miles. It includes the West Branch Susquehanna River from its origins to just downstream of Sinnemahoning Creek. This subbasin encompasses almost all of Cameron County, much of Clearfield, Cambria, Centre, Elk and Potter Counties and portions of Indiana, Clinton, Blair, McKean, and Jefferson Counties. The Upper West Branch Susquehanna Subbasin contains the Chest-Anderson Creeks Watershed. Tributaries in the northeastern edge of the county flow into the West Branch Susquehanna River (Pennsylvania DEP Watershed Notebook 2006).

History

Archaeological remains indicate the presence of Native American in Indiana County as early as 14,225 B.C. Records indicate that the Delaware Indians were here during the 1720s and the Shawnee Indians came shortly after. The first documented European to arrive was a trader named James Letort in approximately 1727. In 1768 the Treaty of Fort Stanwix made settlement legal. The first towns were Newport in 1790 and Armagh in 1792. Two parts of Indiana County, north and south of the Purchase Line, were joined when the county was created by the Pennsylvania Legislature in 1803.

Beginning in 1813, except for agriculture, the manufacture of salt was the first major industry in the area. The salt boom in the southwestern part of the county accounted for the name of the town of Saltsburg. The town of Saltsburg was founded in 1816 and in 1828 the first steam engines were put into use at the saltworks. The use of coal increased until 1838 and then declined slowly as the salt production diminished. The first iron foundry was in Blairsville in 1830, and the first iron furnace began working in East Wheatfield in 1840. Timber production began in 1827.

According to the census of 1810, the new county had a population of 1214. The town of Indiana became a borough in 1816, the same year Pittsburgh was incorporated as a city. The Pennsylvania Canal, opened for vessel traffic from Saltsburg to Blairsville in 1829, and was one of the most important transportation improvements at that time. The Huntingdon, Cambria and Indiana Turnpike was completed by 1821, and another turnpike from Ebensburg to Kittanning via Indiana opened in 1823.

During the 1850's the local economy slowed down in response to the decline of the coal-mining and salt industries. The Indiana County Agricultural Society was formed and held its first county fair in 1855. In 1851 the railroad extended into Indiana County as far as Blairsville and reached into Indiana by 1856 and Saltsburg by 1865.

Agriculture and timber harvesting were the chief economic activities during the 1880's. New mines sprang up in Glen Campbell between 1889 and 1890. Other industries produced glass, bricks, cigars, wagons, and carriages. By 1883 Sutton Brothers and Bell of Indiana was the largest iron foundry in the area. From 1887

to 1889 new railroads reached into the northeastern sections of the county. Eight bridges spanned the Conemaugh River. Indiana had telegraph service by 1869, and by 1890, 21 towns had telephone service.

By 1915 there were 53 mining companies in operation, with approximately 115 mines. Coal production grew from 1901 to 1910. The coal boom stimulated the growth of other industries and establishment of new companies. Among them were the Indiana Foundry Company in 1899; Clymer Brick and Fire Clay Company in 1907; McCreary Tire and Rubber Company in 1915; and the Indian Brewing Company in 1904, to name just a few. A number of glass companies were established in Blairsville and Indiana, and electricity-generating plants grew up in both towns in 1890 and 1891.

The Buffalo, Rochester and Pittsburgh Railroad began in 1902, and the New York Central from 1903. By 1903, there were only six automobiles registered in the entire county. Construction of a street car system from Indiana to Ernest and Clymer began in 1906 and was completed as far as Blairsville by 1910. Streetcar service ended by 1933 and the Pennsylvania Railroad discontinued passenger service in 1940.

A concrete road was built from Indiana to Homer City in 1921. The first airfield built in the area was in 1918. In 1932, 32 percent of the population was receiving emergency relief. By 1935 the county owned 26 percent of all taxable real estate consisting of 3800 parcels, but by 1937 the local economy was beginning to recover.

World War II was upon the county in 1940. Schools conducted salvage drives and students picked elderberries and milkweed pods to help families. In 1943, the government took over the mines and there were very few local war industries. Below lists some of the technological and cultural advances that the county experienced during the 1940's and 50's. WDAD, the first radio station, went on the air in 1945. An Associated Press dispatch in 1950s announced Indiana County as "the Christmas Tree Capital of the World." The first of three giant electric plants were completed in 1967. The Hamilton Airfield closed in 1950 but was replaced by the Jimmy Stewart Airport in honor of the actor who grew up in Indiana County. Among the problems was an economic decline that had begun immediately after the war ended, resulting in a loss of population. By 1970 the population had recovered to the 1940 level. Today, Indiana University of Pennsylvania is the largest employer in the county. Farming is again the number one industry, with tourism coming in second (Busovicki 2003).

Major Collectors

Collecting in Indiana County for the Carnegie Museum Herbarium began in 1883, and has continued to the present. Most of the collectors have been members of the Botanical Society of Western Pennsylvania and the staff of the Section of Botany at Carnegie Museum.

Botanists who have made significant contributions to the knowledge of the Indiana County are L. Speedy, L.K. Henry, O.E. Jennings, W.E. Buker, and F.H. Utech.

METHODS

This checklist was compiled by searching the herbaria of the Carnegie Museum of Natural History (CM). Herbarium collection information was obtained from the Morris Arboretum (MOAR) for 24 samples. Other herbaria that were examined for specimens include the Academy of Natural Sciences of Philadelphia (21 samples) and the A.G. Shields herbarium at the Indiana University of Pennsylvania (83 samples). In addition fieldwork was conducted targeting underrepresented areas of the county. Most of the collections were made 2007 through 2009, as well as during the late 1940s and early 1950s but several specimens date back as far as 1895 and 1901. The majority of the specimens are deposited at the Carnegie Museum of Natural History (CM). Rhoads and Block (2000) was the primary source for plant identification. For generic and species names we have generally followed the Synthesis of North American Flora (Kartesz 1999). Authorities are abbreviated for the majority of taxa according to Brummitt and Powell (1992).

RESULTS AND DISCUSSION

This list includes the names of all native and naturalized species known to occur in Indiana County. It includes a total of 125 families, 463 genera, and 988 species. The five families with the largest number of species are

Asteraceae, Poaceae, Cyperaceae, Rosaceae, and Lamiaceae. *Carex*, *Viola*, *Solidago*, *Symphyotrichum*, and *Persicaria* are the largest genera. This checklist recognizes 51 species of pteridophytes, 8 species of gymnosperms and 929 species of angiosperms. There are approximately 193 non-native species that have been introduced mainly from Europe and Eurasia. Fifteen species have global or state ranking.

Species of Conservation Concern

Of the 15 plants that have global or state ranking, none have a global ranking of G2 or imperiled status but are either a G4 or G5 status, indicating an apparently secure or secure condition globally. No taxon listed under the Endangered Species Act was encountered.

Actaea podocarpa G4:S3

Andropogon glomeratus var. **glomeratus**, G5:S3

Filipendula rubra G4G5:S1S2

Helianthus microcephalus G5:S4

Hydrastis canadensis G4:S4

Najas gracillima G5?:S4

Orontium aquaticum G5:S4

Penstemon laevigatus G5:S3

Prenanthes crepidinea G4:S4

Salix petiolaris G5:S4

Stenanthium gramineum G4G5:S1S2

Symphyotrichum praealtum var. **angustior**, G5:S3

Taxus canadensis G5:S3S4

Thalictrum coriaceum G4:S2

Trillium flexipes G5:S2

Invasives

There are 4 taxa in the Indiana County flora that are listed by the Pennsylvania Department of Agriculture (2007) as noxious weeds. It is therefore illegal to propagate, sell or transport the following taxa in the commonwealth: *Cirsium arvense* (Canada thistle), *Cirsium vulgare* (Bull thistle), *Lythrum salicaria* (Purple loosestrife), and *Rosa multiflora* (Multiflora rose). Other species considered serious invasives in Pennsylvania's native ecosystems are: *Acer platanoides* (Norway maple), *Aegopodium podagraria* (goutweed), *Ailanthus altissima* (tree-of-heaven), *Alliaria petiolata* (garlic mustard), *Berberis thunbergii* (Japanese barberry), *Celastrus orbiculatus* (Oriental bittersweet), *Elaeagnus umbellata* (autumn olive), *Hesperis matronalis* (Dame's rocket), *Ligustrum obtusifolium* (border privet), *Lonicera japonica* (Japanese honeysuckle), *Lonicera maackii* (Amur honeysuckle), *Lonicera morrowii* (Morrow's honeysuckle), *Microstegium vimineum* (Japanese stilt grass), *Myriophyllum spicatum* (Eurasian water-milfoil), *Pastinaca sativa* (wild parsnip), *Phalaris arundinacea* (reed canary grass), and *Spiraea japonica* (Japanese spiraea) (DCNR 2004).

While this checklist is probably not all-inclusive of every species in Indiana County, it is the most comprehensive list presently available.

ANNOTATED CHECKLIST OF THE SPECIES OF INDIANA COUNTY, PENNSYLVANIA

Taxa are listed according to the following format: taxon name, author(s), {(year) collector and number} **global: state ranking**, [Synonyms] and non-native source. We follow the state (S) and global (G) ranking systems developed by The Nature Conservancy (1996 version). The global numbers are designated from 1 (critically imperiled) to 5 (secure). Other notations include SH, which denotes historical occurrence, and SR, which indicates reported without persuasive documentation. Synonyms are included for names not in common usage in the state or regional manuals. In cases where there was more than one specimen present in the collection, recent collections of current collectors for the western Pennsylvania region were cited.

Families, genera, and specific and infraspecific taxa are arranged alphabetically within vascular plant groups Angiosperms, Gymnosperms, and Pteridophytes.

ANGIOSPERMS

Acanthaceae

Justicia americana (L.) Vahl, 1968 A.G. Shields s.n.

Aceraceae

Acer negundo L. var. *negundo*, 2007 L. Speedy LS-07-47

Acer nigrum Michx. f., 2008 L. Speedy 08-991 [*Acer saccharum* Marsh. var. *nigrum* (Michx. f.) Britt.]

Acer pensylvanicum L., 2008 L. Speedy 08-0291

Acer platanoides L., 2008 L. Speedy 08-0048 Europe

Acer rubrum L. var. *rubrum*, 2009 L. Speedy 09-0204-2

Acer rubrum L. var. *trilobum*, 1950 L.K. Henry and F.H. Beer s.n.

Acer saccharinum L., 2008 L. Speedy 08-992
Acer saccharum Marsh. var. *saccharum*, 2008 L. Speedy 08-946
Acer spicatum Lam., 2008 L. Speedy 08-0278

Acoraceae

Acorus calamus L., 1952 L.K. Henry and F.H. Beer s.n. Europe

Alismataceae

Alisma subcordatum Raf., 2009 L. Speedy 09-923 [*Alisma plantago-aquatica* L. var. *parviflorum* (Pursh) Torr.]
Sagittaria latifolia Willd., 2008 L. Speedy 08-1012

Amaranthaceae

Amaranthus hybridus L., 1947 H.A. Wahl 4894 Tropical America
Amaranthus retroflexus L., 1947 H.A. Wahl 4513 Tropical America

Anacardiaceae

Rhus copallinum L., 2007 L. Speedy, C. Tracey and S. Stewart 07-1011
Rhus glabra L., 1945 O.E. Jennings s.n.
Rhus typhina L., 2009 L. Speedy 09-1072
Toxicodendron radicans (L.) Kuntze ssp. *negundo*, 2009 L. Speedy 09-0247

Annonaceae

Asimina triloba (L.) Dunal, 2008 L. Speedy 08-1180

Apiaceae

Aegopodium podagraria L., 2008 L. Speedy 08-629 Eurasia
Angelica venenosa (Greenway) Fern., 1951 W.E. Buker and F.H. Beer s.n.
Anthriscus sylvestris (L.) Hoffman, 2008 L. Speedy 08-376 Europe
Chaerophyllum procumbens (L.) Crantz var. *procumbens*, 2002 B.L. Isaac, J.A. Isaac and H.R. Isaac 14305
Cicuta maculata L. var. *maculata*, 2009 L. Speedy 09-0553
Conium maculatum L., 1982 M. Cipollini s.n. Europe
Cryptotaenia canadensis (L.) DC., 2008 L. Speedy 08-389J
Daucus carota L., 2008 L. Speedy 08-1137 Eurasia
Hydrocotyle americana L., 2008 L. Speedy 08-791
Osmorhiza claytonii (Michx.) C.B. Clarke, 1952 L.K. Henry and F.H. Beer s.n.
Osmorhiza longistylis (Torr.) DC., 2008 L. Speedy 08-388B
Pastinaca sativa L., 2009 L. Speedy 09-0587 Eurasia
Sanicula canadensis L. var. *canadensis*, 2008 L. Speedy 08-447
Sanicula odorata (Raf.) K.M. Pryer & L.R. Phillippe, 2009 L. Speedy 09-0444 [*Sanicula gregaria* Bickn.]
Sanicula trifoliata Bickn., 1990 F.H. Utech 90-1274
Sium suave Walt., 1952 L.K. Henry and F.H. Beer s.n.
Taenidia integerrima (L.) Drude, 1952 L.K. Henry and F.H. Beer s.n.
Thaspium barbinode (Michx.) Nutt., 1952 L.K. Henry and F.H. Beer s.n.
Thaspium trifoliatum (L.) A. Gray var. *aureum*, 2009 L. Speedy 09-816 [*Thaspium trifoliatum* var. *flavum* Blake]
Zizia aptera (A. Gray) Fern., 2008 L. Speedy 08-339
Zizia aurea (L.) W.D.J. Koch, 2007 L. Speedy 07-782

Apocynaceae

Apocynum androsaemifolium L., 2008 L. Speedy 08-566
Apocynum cannabinum L., 2008 L. Speedy 08-681
Vinca minor L., 2007 L. Speedy LS-07-50 Europe

Aquifoliaceae

Ilex ambigua (Michx.) Torr., 2008 L. Speedy and D. White 08-1244
Ilex montana Torr. & A. Gray ex A. Gray, 2008 L. Speedy 08-1292
Ilex verticillata (L.) A. Gray, 2007 L. Speedy LS-07-423

Araceae

Arisaema dracontium (L.) Schott, 1946 L.K. Henry s.n.
Arisaema triphyllum (L.) Schott ssp. *triphyllum*, 2009 L. Speedy 09-0147
Orontium aquaticum L., 2008 L. Speedy 08-390 **G5:S4**

Symplocarpus foetidus (L.) Salisb. ex Nutt., 2009 L. Speedy 09-823

Araliaceae

Aralia nudicaulis L., 2008 L. Speedy 08-585
Aralia racemosa L. ssp. *racemosa*, 1954 L.K. Henry and W.E. Buker s.n.
Aralia spinosa L., 2008 L. Speedy 08-1014
Panax quinquefolius L., 2008 L. Speedy 08-948
Panax trifolius L., 2008 L. Speedy 08-360

Aristolochiaceae

Asarum canadense L., 2008 L. Speedy 08-366

Asclepiadaceae

Asclepias exaltata L., 2008 L. Speedy 08-527
Asclepias incarnata L. ssp. *incarnata*, 2008 L. Speedy 08-906
Asclepias quadrifolia Jacq., 2008 L. Speedy 08-448
Asclepias syriaca L., 2008 L. Speedy 08-693
Asclepias tuberosa L. ssp. *tuberosa*, 2009 L. Speedy 09-620

Asteraceae

Achillea millefolium L., 2008 L. Speedy 08-688
Ageratina altissima (L.) King & H.E. Robins. var. *altissima*, 2008 L. Speedy 08-1069 [*Eupatorium rugosum* Houtt.]
Ambrosia artemisiifolia L., 2008 L. Speedy 08-1134
Ambrosia trifida L., 1942 O.E. Jennings s.n.
Anaphalis margaritacea (L.) Benth. & Hook. f., 2009 L. Speedy and C. Rogers 09-1078
Antennaria howellii Greene ssp. *neodioica*, 2008 L. Speedy 08-338 [*Antennaria neodioica* Greene]
Antennaria neglecta Greene, 2007 L. Speedy LS-07-311
Antennaria parlinii Fern. ssp. *parlinii*, 2007 L. Speedy LS-07-63
Antennaria plantaginifolia (L.) Richards., 2009 L. Speedy 09-0220
Anthemis arvensis L., 1950 L.K. Henry and F.H. Beer s.n. Europe
Anthemis cotula L., 1982 M. Cipollini s.n. Europe
Arctium lappa L., 2008 L. Speedy 08-804 Europe
Arctium minus (Hill) Bernh., 1994 W.A. Zanol 3539 Eurasia
Arnoglossum atriplicifolium (L.) H.E. Robins., 2008 L. Speedy 08-1182 [*Cacalia atriplicifolia* L.]
Artemisia vulgaris L., 2008 L. Speedy 08-1200 Eurasia
Bidens cernua L., 1984 M. Polechko s.n.
Bidens frondosa L., 2009 L. Speedy 09-911
Bidens tripartita L., 2009 L. Speedy 09-1013 [*Bidens comosa* (A. Gray) Wieg.]
Bidens vulgata Greene, 1951 E.T. Wherry s.n.
Centaurea stoebe L. ssp. *micranthos*, 2009 L. Speedy and B. Poglein 09-849 Eurasia
Cichorium intybus L., 1944 O.E. Jennings s.n. Europe
Cirsium altissimum (L.) Spreng., 1942 O.E. Jennings s.n.
Cirsium arvense (L.) Scop., 2008 L. Speedy 08-884 Eurasia
Cirsium discolor (Muhl. ex Willd.) Spreng., 2008 L. Speedy 08-1184
Cirsium muticum Michx., 2008 L. Speedy 08-1008
Cirsium pumilum Spreng., 1954 L.K. Henry and W.E. Buker s.n.
Cirsium vulgare (Savi) Ten., 1990 F.H. Utech 90-1227 Eurasia
Conyza canadensis (L.) Cronq., 2009 L. Speedy 09-801
Doellingeria umbellata (P. Mill.) Nees var. *umbellata*, 2009 L. Speedy 09-1015 [*Aster umbellatus* P. Mill.]
Erechtites hieraciifolius (L.) Raf. ex DC. var. *hieraciifolius*, 2009 L. Speedy 09-917
Erigeron annuus (L.) Pers., 2008 L. Speedy 08-388D
Erigeron philadelphicus L. var. *philadelphicus*, 2009 L. Speedy 09-0248
Erigeron pulchellus Michx. var. *pulchellus*, 2008 L. Speedy 08-0185
Erigeron strigosus Muhl. ex Willd. var. *strigosus*, 1994 W.A. Zanol 3514
Eupatorium altissimum L., 2009 L. Speedy 09-806
Eupatorium perfoliatum L., 2008 L. Speedy 08-1256
Eupatorium serotinum Michx., 2008 L. Speedy 08-1295

- Eupatorium sessilifolium* L., 2008 L. Speedy 08-1041
- Eurybia divaricata* (L.) Nesom, 2008 L. Speedy 08-1337 [Aster divaricatus L.]
- Eurybia macrophylla* (L.) Cass., 2009 L. Speedy 09-796 [Aster macrophyllus L.]
- Eurybia schreberi* (Nees) Nees, 1952 L.K. Henry and F.H. Beer s.n. [Aster schreberi Nees]
- Euthamia graminifolia* (L.) Nutt., 2008 L. Speedy 08-1282 [*Solidago graminifolia* (L.) Salisb.]
- Eutrochium fistulosum* (Barratt) E. Lamont, 2008 L. Speedy 08-1112 [*Eupatorium fistulosum* Barratt]
- Eutrochium purpureum* (L.) E. Lamont var. *purpureum*, 2008 L. Speedy 08-1027 [*Eupatorium purpureum* L.]
- Galinsoga parviflora* Cav. var. *parviflora*, 2008 L. Speedy 08-1301 Central & South America
- Galinsoga quadriradiata* Ruiz & Pavon, 2008 L. Speedy 08-798 Central & South America
- Gnaphalium uliginosum* L., 1952 L.K. Henry and F.H. Beer s.n. Europe
- Helenium autumnale* L., 2009 L. Speedy 09-935
- Helenium flexuosum* Raf., 1965 A.G. Shields s.n.
- Helianthus xlaetiflorus* Pers. (pro sp.), 1962 R.A. Ickes s.n.
- Helianthus decapetalus* L., 2008 L. Speedy 08-1116
- Helianthus divaricatus* L., 2008 L. Speedy 08-1042
- Helianthus microcephalus* Torr. & A. Gray, 1942 O.E. Jennings s.n. **G5:S4**
- Helianthus strumosus* L., 2009 L. Speedy 09-1020
- Helianthus tuberosus* L., 1974 M. Neidig s.n.
- Heliopsis helianthoides* (L.) Sweet, 2009 L. Speedy 09-633-2
- Hieracium aurantiacum* L., 1994 B.L. Isaac and J.A. Isaac 6878 Europe
- Hieracium caespitosum* Dumort., 1994 B.L. Isaac and J.A. Isaac 6884 Europe
- Hieracium paniculatum* L., 2007 L. Speedy 07-1105
- Hieracium pilosella* L., 1982 M. Cipollini s.n. Europe
- Hieracium scabrum* Michx., 2008 L. Speedy 08-1197
- Hieracium venosum* L., 2009 L. Speedy 09-649
- Hypochaeris radicata* L., 1994 B.L. Isaac and J.A. Isaac 6882 Eurasia
- Krigia biflora* (Walt.) Blake, 1942 R.W. Pohl 3837
- Lactuca biennis* (Moench) Fern., 2009 L. Speedy 09-932
- Lactuca canadensis* L., 1954 L.K. Henry and W.E. Buker s.n.
- Lactuca sativa* L., 1901 J.A. Shafer s.n. Europe
- Lactuca serriola* L., 1990 F.H. Utech 90-1246 Europe
- Leucanthemum vulgare* Lam., 1994 W.A. Zanol 3508 Europe
- Oclemena acuminata* (Michx.) Greene, 2009 L. Speedy and B. Poglein 09-845 [Aster acuminatus Michx.]
- Oporinia autumnalis* D. Don, 1963 F. Serrotto s.n. Europe
- Packera aurea* (L.) A. & D. Löve, 2009 L. Speedy 09-0196 [Senecio aureus L.]
- Packera obovata* (Muhl. ex Willd.) W.A. Weber & A. Love, 2009 L. Speedy 09-0221 [Senecio obovatus Muhl. ex Willd.]
- Prenanthes altissima* L., 2009 L. Speedy 09-938
- Prenanthes crepidinea* Michx., 2002 B.L. Isaac, J.A. Isaac and H.R. Isaac 14306 **G4:S4**
- Prenanthes trifoliolata* (Cass.) Fern., 1951 W.E. Buker and F.H. Beer s.n.
- Pseudognaphalium obtusifolium* (L.) Hilliard & Burt ssp. *obtusifolium*, 1995 F.H. Utech 95-899 [Gnaphalium obtusifolium L.]
- Rudbeckia hirta* L. var. *hirta*, 2009 L. Speedy 09-937 [*Rudbeckia hirta* var. *pulcherrima* Farw.]
- Rudbeckia laciniata* L. var. *laciniata*, 2008 L. Speedy 08-1140
- Rudbeckia triloba* L. var. *triloba*, 1995 F.H. Utech 95-888
- Senecio vulgaris* L., 1967 J. Rummel s.n. Eurasia
- Sericocarpus asteroides* (L.) B.S.P., 1953 L.K. Henry and F.H. Beer s.n. [Aster paternus Cronq.]
- Silphium asteriscus* L. var. *trifoliatum*, 2007 L. Speedy, C. Tracey and S. Stewart 07-1018 [*Silphium trifoliatum* L.]
- Solidago altissima* L. ssp. *altissima*, 1952 L.K. Henry and F.H. Beer s.n. [*Solidago canadensis* L. var. *scabra* Torr. & A. Gray]
- Solidago bicolor* L., 2008 L. Speedy 08-1107
- Solidago caesia* L. var. *caesia*, 2008 L. Speedy 08-1323
- Solidago canadensis* L. var. *canadensis*, 2008 L. Speedy 08-1120
- Solidago canadensis* L. var. *hargerii*, 2008 L. Speedy 08-1320
- Solidago flexicaulis* L., 2008 L. Speedy 08-1265
- Solidago gigantea* Ait., 2009 L. Speedy 09-819
- Solidago juncea* Ait., 2008 L. Speedy 08-1122
- Solidago nemoralis* Ait. var. *nemoralis*, 2009 L. Speedy 09-936
- Solidago patula* Muhl. ex Willd. var. *patula*, 2009 L. Speedy 09-1012
- Solidago rugosa* P. Mill. ssp. *aspera* var. *aspera*, 2008 L. Speedy 08-1130
- Solidago rugosa* P. Mill. ssp. *rugosa* var. *rugosa*, 2008 L. Speedy 08-1189
- Solidago ulmifolia* Muhl. ex Willd. var. *ulmifolia*, 1952 L.K. Henry and F.H. Beer s.n.
- Symphyotrichum cordifolium* (L.) Nesom, 2008 L. Speedy 08-1327 [Aster cordifolius L.]
- Symphyotrichum lanceolatum* (Willd.) Nesom ssp. *lanceolatum* var. *lanceolatum*, 2008 L. Speedy 08-1254 [Aster simplex Willd.]
- Symphyotrichum lateriflorum* (L.) A. & D. Löve var. *lateriflorum*, 2008 L. Speedy 08-1328 [Aster lateriflorus (L.) Britt.]
- Symphyotrichum novae-angliae* (L.) Nesom, 2008 L. Speedy 08-1296 [Aster novae-angliae L.]
- Symphyotrichum oblongifolium* (Nutt.) Nesom, 1966 J. Byers s.n.
- Symphyotrichum pilosum* (Willd.) Nesom var. *pilosum*, 2008 L. Speedy 08-1129 [Aster pilosus Willd.]
- Symphyotrichum pilosum* (Willd.) Nesom var. *pringlei*, 2009 L. Speedy 09-1016 [Aster pilosus Willd. var. *demotus* Blake]
- Symphyotrichum praecox* (Poir.) Nesom var. *angustior*, 2009 L. Speedy 09-1017 **G5:S3** [Aster praecox var. *angustior* Wieg.]
- Symphyotrichum prenanthoides* (Muhl. ex Willd.) Nesom, 2008 L. Speedy 08-1347 [Aster prenanthoides Muhl. ex Willd.]
- Symphyotrichum puniceum* (L.) A. & D. Löve var. *puniceum*, 2008 L. Speedy 08-1319 [Aster puniceus L.]
- Symphyotrichum shortii* (Lindl.) Nesom, 2007 L. Speedy 07-1796 [Aster shortii Lindl.]
- Symphyotrichum undulatum* (L.) Nesom, 1948 E. Mason s.n. [Aster undulatus L.]
- Symphyotrichum urophyllum* (Lindl.) Nesom, 2009 L. Speedy 09-1089 [Aster urophyllum Lindl.]
- Tanacetum parthenium* (L.) Schultz-Bip., 1978 M. Tucker s.n. Europe
- Taraxacum officinale* G.H. Weber ex Wiggers, 2007 L. Speedy LS-07-73 Eurasia
- Tussilago farfara* L., 2008 L. Speedy 08-0268 Eurasia
- Verbesina alternifolia* (L.) Britt. ex Kearney, 2008 L. Speedy 08-1070
- Vernonia gigantea* (Walt.) Trel. ex Branner & Coville, 2009 L. Speedy 09-820
- Vernonia noveboracensis* (L.) Michx., 2008 L. Speedy 08-1132
- Xanthium strumarium* L., 1957 L.K. Henry s.n.

Balsaminaceae

- Impatiens capensis* Meerb., 2007 L. Speedy 07-1094
- Impatiens pallida* Nutt., 2008 L. Speedy 08-1191

Berberidaceae

- Berberis thunbergii* DC., 2008 L. Speedy 08-0104 Japan
- Caulophyllum thalictroides* (L.) Michx., 2009 L. Speedy 09-0101
- Podophyllum peltatum* L., 2008 L. Speedy 08-397

Betulaceae

- Alnus incana* (L.) Moench ssp. *rugosa*, 2009 L. Speedy 09-1009
- Alnus serrulata* (Ait.) Willd., 2009 L. Speedy 09-0284
- Betula alleghaniensis* Britt., 2008 L. Speedy 08-0086
- Betula lenta* L., 2009 L. Speedy 09-0142

Betula pendula Roth, 1995 F.H. Utech 95-872 Eurasia
Betula populifolia Marsh., 1977 A. Sibo s.n.
Carpinus caroliniana Walt. ssp. *virginiana*, 2009 L. Speedy 09-675
Corylus americana Marsh., 2008 L. Speedy 08-809-1
Ostrya virginiana (P. Mill.) K. Koch, 2009 L. Speedy 09-1086

Bignoniaceae

Campsis radicans (L.) Seem. ex Bureau, 1967 J. Gelsdorf s.n.
Catalpa bignonioides Walt., 1983 T. Gallagher s.n.
Catalpa speciosa Warder ex Engelm., 2009 L. Speedy 09-678

Boraginaceae

Cynoglossum officinale L., 1954 F. Streams s.n. Eurasia
Cynoglossum virginianum L. var. *virginianum*, 1946 L.K. Henry s.n.
Echium vulgare L., 1994 W.A. Zanol 3549 Europe
Hackelia virginiana (L.) I.M. Johnston, 2008 L. Speedy 08-1071
Mertensia virginica (L.) Pers. ex Link, 2008 L. Speedy 08-0107
Myosotis laxa Lehm., 2007 L. Speedy and C. Tracey 07-972
Myosotis scorpioides L., 2000 H. Travis s.n. Europe

Brassicaceae

Alliaria petiolata (Bieb.) Cavara & Grande, 2008 L. Speedy 08-0276 Europe
Arabidopsis lyrata (L.) O'Kane & Al-Shehbaz ssp. *lyrata*, 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-812
Barbarea vulgaris Ait. f., 2008 L. Speedy 08-0223 Eurasia
Boechea canadensis Al-Shehbaz, 1954 L.K. Henry and W.E. Buker s.n. [*Arabis canadensis* L.]
Boechea laevigata (Muhl. ex Willd.) Al-Shehbaz, 2009 L. Speedy 09-640 [*Arabis laevigata* (Muhl. ex Willd.) Poir.]
Brassica juncea (L.) Czern., 1901 J.A. Shafer s.n. Eurasia
Brassica rapa L., 1958 F. Feduska s.n. Europe
Bunias orientalis L., 1946 H.A. Wahl 1910 Europe
Capsella bursa-pastoris (L.) Medik., 1972 L.K. Henry and W.E. Buker s.n. Eurasia
Cardamine angustata O.E. Schulz, 2007 L. Speedy and C. Tracey LS-07-158
Cardamine bulbosa (Schreb. ex Muhl.) B.S.P., 2009 L. Speedy 09-0215
Cardamine concatenata (Michx.) Sw., 2008 L. Speedy 08-0167
Cardamine diphylla (Michx.) Wood, 2008 L. Speedy 08-0289
Cardamine douglassii Britt., 2008 L. Speedy 08-0055
Cardamine hirsuta L., 2007 L. Speedy LS-07-42 Europe
Cardamine impatiens L., 2008 L. Speedy 08-503 Europe
Cardamine parviflora L. var. *arenicola*, 1946 L.K. Henry s.n.
Cardamine pennsylvanica Muhl. ex Willd., 2008 L. Speedy 08-0128
Cardamine rotundifolia Michx., 2007 L. Speedy LS-07-291
Draba verna L., 1915 J. Bright s.n. Europe
Hesperis matronalis L., 2008 L. Speedy 08-388A Europe
Lepidium campestre (L.) Ait. f., 2008 L. Speedy 08-965 Eurasia
Lepidium virginicum L., 2005 J. Kupchella 6
Nasturtium officinale Ait. f., 1968 J. Rummel s.n. Europe
Rorippa palustris (L.) Bess. ssp. *fernaldiana*, 2009 L. Speedy 09-0583
Sinapis arvensis L., 1966 M.R. Charnego s.n. Mediterranean region
Sisymbrium officinale (L.) Scop., 1901 J.A. Shafer s.n. Europe

Buxaceae

Pachysandra terminalis Sieb. & Zucc., 2008 L. Speedy 08-891 Japan

Cabombaceae

Brasenia schreberi J.F. Gmel., 2007 L. Speedy, C. Tracey and S. Stewart 07-986

Callitrichaceae

Callitriche heterophylla Pursh ssp. *heterophylla*, 1953 L.K. Henry and F.H. Beer s.n.

Campanulaceae

Campanulastrum americanum (L.) Small, 2009 L. Speedy 09-792 [*Campanula americana* L.]

Lobelia cardinalis L., 2009 L. Speedy 09-818
Lobelia inflata L., 2009 L. Speedy 09-783
Lobelia siphilitica L., 2008 L. Speedy 08-1348
Lobelia spicata Lam. var. *spicata*, 1953 L.K. Henry and F.H. Beer s.n.
Triodanis perfoliata (L.) Nieuwl., 2008 L. Speedy 08-509

Cannabaceae

Humulus lupulus L., 1969 D. Pifer s.n. Europe

Caprifoliaceae

Diervilla lonicera P. Mill., 1959 W.E. Buker s.n.
Lonicera canadensis Bartr. ex Marsh., 2007 L. Speedy and C. Tracey LS-07-156
Lonicera dioica L., 1963 J. Hamilton s.n.
Lonicera japonica Thunb., 1995 F.H. Utech 95-877 Asia
Lonicera maackii (Rupr.) Herder, 2007 L. Speedy LS-07-221 Asia
Lonicera morrowii A. Gray, 2009 L. Speedy and B. Poglein 09-846 Japan
Lonicera xylosteum L., 2008 L. Speedy 08-440 Eurasia
Sambucus nigra L. ssp. *canadensis*, 2009 L. Speedy and C. Rogers 09-1079 [*Sambucus canadensis* L.]
Sambucus nigra L. ssp. *nigra*, 2007 L. Speedy and C. Tracey LS-07-150 Europe
Sambucus racemosa L. var. *racemosa*, 2008 L. Speedy 08-525 [*Sambucus racemosa* var. *pubens*]
Symphoricarpos orbiculatus Moench, 1966 K. Smay s.n.
Viburnum acerifolium L., 2009 L. Speedy 09-1092
Viburnum dentatum L. var. *lucidum*, 2007 L. Speedy and C. Tracey 07-970 [*Viburnum recognitum* Fern.]
Viburnum lantanoides Michx., 2009 L. Speedy and C. Rogers 09-1082 [*Viburnum alnifolium* Marsh.]
Viburnum lentago L., 2007 L. Speedy and M. Bowers 07-876
Viburnum nudum L. var. *cassinoides*, 2007 L. Speedy and M. Bowers 07-872 [*Viburnum cassinoides* L.]
Viburnum opulus L. var. *opulus*, 1966 J. Peterson s.n. Eurasia
Viburnum prunifolium L., 2007 L. Speedy LS-07-178

Caryophyllaceae

Agrostemma githago L., 1957 M.S. Lewis s.n. Europe
Arenaria serpyllifolia L. var. *serpyllifolia*, 1913 J. Bright s.n. Europe
Cerastium fontanum Baumg. ssp. *vulgare*, 2009 L. Speedy 09-610 Eurasia
Cerastium nutans Raf. var. *nutans*, 1942 O.E. Jennings s.n.
Cerastium tomentosum L., 1976 J.E. Kassulke s.n. Europe
Dianthus armeria L., 2009 L. Speedy 09-622 Europe
Dianthus barbatus L., 1973 W.E. Buker s.n. Eurasia
Moehringia lateriflora (L.) Fenzl, 2009 L. Speedy 09-0236
Myosoton aquaticum (L.) Moench, 2007 L. Speedy 07-576 Europe
Paronychia canadensis (L.) Wood, 2009 L. Speedy 09-648
Saponaria officinalis L., 1995 F.H. Utech 95-904 Europe
Silene latifolia Poir., 2009 L. Speedy 09-0582 Europe
Silene noctiflora L., 1946 H. Roslund s.n. Europe
Silene stellata (L.) Ait. f., 2008 L. Speedy 08-1036
Silene virginica L., 2009 L. Speedy 09-0156
Silene vulgaris (Moench) Garcke, 2009 L. Speedy 09-0445 Europe
Stellaria alsine Grimm, 1982 M. Cipollini s.n.
Stellaria graminea L., 1952 L.K. Henry and F.H. Beer s.n. Europe
Stellaria longifolia Muhl. ex Willd., 2009 L. Speedy 09-0232
Stellaria media (L.) Vill., 2008 L. Speedy 08-1064 Europe
Stellaria pubera Michx., 2007 L. Speedy LS-07-75

Celastraceae

Celastrus orbiculatus Thunb., 2008 L. Speedy 08-388F Japan and China
Celastrus scandens L., 2009 L. Speedy 09-589
Euonymus atropurpureus Jacq. var. *atropurpureus*, 1942 O.E. Jennings s.n.

Ceratophyllaceae

Ceratophyllum demersum L., 1984 M. Polechko s.n.

Chenopodiaceae

Chenopodium album L. var. *album*, 1952 L.K. Henry and F.H. Beer s.n.

Cistaceae

Lechea racemulosa Michx., 1901 J.A. Shafer s.n.

Clusiaceae

Hypericum ellipticum Hook., 1908 O.E. Jennings s.n.

Hypericum gentianoides (L.) B.S.P., 1959 H. Bell s.n.

Hypericum mutilum L., 2008 L. Speedy and M. Bowers 08-915

Hypericum perforatum L., 2009 L. Speedy 09-804 Europe

Hypericum prolificum L., 2007 L. Speedy, C. Tracey and S. Stewart 07-1012

Hypericum punctatum Lam., 2009 L. Speedy 09-915

Triadenum fraseri (Spach) Gleason, 2008 L. Speedy 08-1252

Commelinaceae

Commelina communis L., 2008 L. Speedy 08-1034 Asia

Convolvulaceae

Calystegia sepium (L.) R. Br. ssp. *americana*, 2009 L. Speedy 09-629

Calystegia spithamea (L.) Pursh, 1946 H.A. Wahl 1904

Convolvulus arvensis L., 1982 M. Cipollini s.n. Europe

Ipomoea pandurata (L.) G.F.W. Mey., 1901 J.A. Shafer s.n.

Cornaceae

Cornus alternifolia L. f., 2008 L. Speedy 08-387

Cornus amomum P. Mill., 2007 L. Speedy 07-789

Cornus canadensis L., 1954 F. Streams s.n.

Cornus florida L., 2008 L. Speedy 08-0186

Cornus obliqua Raf., 1952 L.K. Henry and F.H. Beer s.n. [*Cornus amomum* P. Mill. ssp. *obliqua* (Raf.) J.S. Wilson]

Cornus racemosa Lam., 2009 L. Speedy 09-0545

Nyssa sylvatica Marsh., 2008 L. Speedy 08-1285

Crassulaceae

Penthorum sedoides L., 2008 L. Speedy 08-894

Sedum ternatum Michx., 2008 L. Speedy 08-1067

Cucurbitaceae

Echinocystis lobata (Michx.) Torr. & A. Gray, 2009 L. Speedy 09-793

Sicyos angulatus L., 2007 L. Speedy 07-1797

Cuscutaceae

Cuscuta gronovii Willd. ex J.A. Schultes var. *gronovii*, 2008 L. Speedy 08-1298

Cyperaceae

Bulbostylis capillaris (L.) Kunth ex C.B. Clarke, 1995 F.H. Utech 95-903

Carex albicans Willd. ex Spreng. var. *albicans*, 1946 L.K. Henry s.n. [*Carex artitecta* Mackenzie]

Carex albursina Sheldon, 2008 L. Speedy 08-402

Carex amphibola Steud., 2008 L. Speedy 08-613

Carex annectens (Bickn.) Bickn., 1954 F. Streams s.n.

Carex appalachica J. Webber & P.W. Ball, 2009 L. Speedy 09-0275

Carex atlantica Bailey ssp. *atlantica*, 2007 L. Speedy and M. Bowers 07-873

Carex baileyi Britt., 2009 L. Speedy 09-0455

Carex blanda Dewey, 2008 L. Speedy 08-673

Carex bromoides Schkuhr ex Willd. ssp. *bromoides*, 2009 L. Speedy 09-0552

Carex brunnescens (Pers.) Poir. ssp. *sphaerostachya*, 1995 J.D. Wagner and L.L. Smith 942

Carex caroliniana Schwein., 1952 L.K. Henry and F.H. Beer s.n.

Carex cephalophora Muhl. ex Willd., 2009 L. Speedy 09-776

Carex communis Bailey var. *communis*, 2009 L. Speedy 09-613

Carex crinita Lam. var. *crinita*, 2007 L. Speedy 07-554

Carex debilis Michx. var. *rudgei*, 2009 L. Speedy 09-673

Carex digitalis Willd. var. *digitalis*, 2009 L. Speedy 09-0433

Carex gracilescens Steud., 2007 L. Speedy 07-508

Carex gracillima Schwein., 2009 L. Speedy 09-0554

Carex granularis Muhl. ex Willd., 2007 L. Speedy 07-880

Carex grayi Carey, 2009 L. Speedy 09-0570

Carex grisea Wahlenb., 1993 W.A. Zanol 1579

Carex gynandra Schwein., 2009 L. Speedy 09-822

Carex hirsutella Mackenzie, 2009 L. Speedy 09-639

Carex hirtifolia Mackenzie, 1946 L.K. Henry s.n.

Carex intumescens Rudge, 2008 L. Speedy 08-575

Carex laevivaginata (Kukenth.) Mackenzie, 1942 C.E. Wood 2087

Carex laxiculmis Schwein. var. *copulata*, 2008 L. Speedy 08-612

Carex laxiculmis Schwein. var. *laxiculmis*, 2009 L. Speedy 09-0546

Carex laxiflora Lam., 2009 L. Speedy 09-0456

Carex leptonevia (Fern.) Fern., 1950 L.K. Henry and F.H. Beer s.n.

Carex lupulina Muhl. ex Willd., 2007 L. Speedy 07-555

Carex lurida Wahlenb., 2009 L. Speedy 09-0548

Carex normalis Mackenzie, 1946 L.K. Henry s.n.

Carex pennsylvanica Lam., 2009 L. Speedy 09-0560

Carex plantaginea Lam., 2009 L. Speedy 09-619

Carex prasina Wahlenb., 2009 L. Speedy 09-0581

Carex projecta Mackenzie, 2009 L. Speedy 09-0571

Carex radiata (Wahlenb.) Small, 2009 L. Speedy 09-784

Carex rosea Schkuhr ex Willd., 2009 L. Speedy and C. Rogers 09-592 [*Carex convoluta* Mackenzie]

Carex scabrata Schwein., 2008 L. Speedy 08-994

Carex scoparia Schkuhr ex Willd. var. *scoparia*, 2009 L. Speedy 09-0562

Carex sparganioides Muhl. ex Willd., 1945 O.E. Jennings s.n.

Carex squarrosa L., 2008 L. Speedy 08-880

Carex stipata Muhl. ex Willd. var. *stipata*, 2009 L. Speedy 09-0566

Carex stricta Lam., 2009 L. Speedy 09-0579

Carex swanii (Fern.) Mackenzie, 2009 L. Speedy 09-0576

Carex torta Boott ex Tuckerman, 2009 L. Speedy 09-0233

Carex tribuloides Wahlenb. var. *tribuloides*, 2008 L. Speedy 08-666

Carex trisperma Dewey, 2007 L. Speedy LS-07-451

Carex virescens Muhl. ex Willd., 2009 L. Speedy and C. Rogers 09-597

Carex vulpinoidea Michx., 2009 L. Speedy 09-0563

Carex woodii Dewey, 1952 L.K. Henry and F.H. Beer s.n.

Cyperus dentatus Torr., 2008 L. Speedy and M. Bowers 08-930

Cyperus esculentus L., 1974 P. Herr s.n.

Cyperus strigosus L., 2007 L. Speedy, C. Tracey and S. Stewart 07-994

Dulichium arundinaceum (L.) Britt. var. *arundinaceum*, 2007 L. Speedy, C. Tracey and S. Stewart 07-995

Eleocharis acicularis (L.) Roemer & J.A. Schultes, 2007 L. Speedy, C. Tracey and S. Stewart 07-989

Eleocharis obtusa (Willd.) J.A. Schultes, 2009 L. Speedy 09-924

Eleocharis palustris (L.) Roemer & J.A. Schultes, 2009 L. Speedy 09-0573 [*Eleocharis erythropoda* Steud.]

Eleocharis tenuis (Willd.) J.A. Schultes var. *tenuis*, 2009 L. Speedy 09-0279

Schoenoplectus pungens (Vahl) Palla var. *pungens*, 2008 L. Speedy and M. Bowers 08-932

Schoenoplectus tabernaemontani (K.C. Gmel.) Palla, 2009 L. Speedy 09-0574 [*Scirpus validus* Vahl]

Scirpus cyperinus (L.) Kunth, 2009 L. Speedy 09-907

Scirpus hattorianus Makino, 1952 L.K. Henry and F.H. Beer s.n.

Scirpus polyphyllus Vahl, 2008 L. Speedy 08-1213

Dioscoreaceae

Dioscorea villosa L., 2008 L. Speedy 08-428 [*Dioscorea quaternata* J.F. Gmel]

Dipsacaceae

Dipsacus fullonum L., 1965 A.G. Shields s.n. Europe

Elaeagnaceae

Elaeagnus umbellata Thunb., 2008 L. Speedy 08-375 Asia

Ericaceae

Epigaea repens L., 2009 L. Speedy 09-0440

Gaultheria procumbens L., 2008 L. Speedy 08-964

Gaylussacia baccata (Wangenh.) K. Koch, 2008 L. Speedy 08-435

Kalmia latifolia L., 2009 L. Speedy 09-0439

Rhododendron maximum L., 2008 L. Speedy 08-958

Rhododendron periclymenoides (Michx.) Shinners, 2008 L. Speedy 08-341

Rhododendron prinophyllum (Small) Millais, 2009 L. Speedy 09-0164

Vaccinium angustifolium Ait., 2007 L. Speedy and C. Tracey LS-07-333

Vaccinium macrocarpon Ait., 2008 L. Speedy 08-709

Vaccinium pallidum Ait., 2009 L. Speedy 09-643

Vaccinium stamineum L., 2008 L. Speedy 08-973

Euphorbiaceae

Acalypha rhomboidea Raf., 2008 L. Speedy 08-1198

Chamaesyce maculata (L.) Small, 1944 O.E. Jennings s.n. [*Euphorbia maculata* L.]

Chamaesyce nutans (Lag.) Small, 2008 L. Speedy 08-911 [*Euphorbia nutans* Lag.]

Chamaesyce vermiculata (Raf.) House, 1994 W.A. Zanol 3520 [*Euphorbia vermiculata* Raf.]

Euphorbia corollata L., 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-826

Euphorbia cyparissias L., 1948 M.S. Lewis s.n. Eurasia

Euphorbia dentata Michx. var. *dentata*, 2008 L. Speedy 08-1181

Fabaceae

Amphicarpaea bracteata (L.) Fern. var. *bracteata*, 2008 L. Speedy 08-1030

Apios americana Medik., 2009 L. Speedy 09-788

Baptisia tinctoria (L.) R. Br. ex Ait. f., 1946 L.K. Henry s.n.

Cercis canadensis L. var. *canadensis*, 2007 L. Speedy 07-1802

Chamaecrista nictitans (L.) Moench, 1947 M.S. Lewis s.n.

Desmodium canadense (L.) DC., 2008 L. Speedy 08-976

Desmodium glutinosum (Muhl. ex Willd.) Wood, 2008 L. Speedy 08-810

Desmodium nudiflorum (L.) DC., 1951 W.E. Buker and F.H. Beer s.n.

Desmodium paniculatum (L.) DC., 2007 L. Speedy 07-1101

Desmodium perplexum Schub., 1943 O.E. Jennings s.n.

Gleditsia triacanthos L., 1985 J. Woodle s.n.

Lathyrus latifolius L., 2009 L. Speedy 09-677 Europe

Lespedeza frutescens (L.) Hornem., 2009 L. Speedy 09-0426 [*Lespedeza intermedia* (S. Wats.) Britt.]

Lotus corniculatus L., 2009 L. Speedy 09-621 Europe

Medicago lupulina L., 1994 B.L. Isaac and J.A. Isaac 6842 Eurasia

Medicago sativa L. ssp. *sativa*, 1990 F.H. Utech 90-1237 Eurasia

Melilotus officinalis (L.) Lam., 2009 L. Speedy 09-0423 Eurasia

Robinia pseudoacacia L., 2009 L. Speedy 09-800

Securigera varia (L.) Lassen, 2007 L. Speedy, C. Tracey and S. Stewart 07-1001 Europe

Senna hebecarpa (Fern.) Irwin & Barneby, 1965 A.G. Shields s.n.

Tephrosia virginiana (L.) Pers., 1901 J.A. Shafer s.n.

Trifolium aureum Pollich, 1946 L.K. Henry s.n. Eurasia

Trifolium campestre Schreb., 1993 W.A. Zanol 1590 Europe

Trifolium hybridum L., 1994 S.A. Thompson 11702 Eurasia

Trifolium pratense L., 1994 S.A. Thompson 11700 Europe

Trifolium repens L., 1994 B.L. Isaac and J.A. Isaac 6879 Europe

Vicia villosa Roth ssp. *villosa*, 1945 O.E. Jennings s.n. Europe

Wisteria frutescens (L.) Poir., 1983 A. Hines s.n.

Fagaceae

Castanea dentata (Marsh.) Borkh., 2007 L. Speedy 07-1678

Fagus grandifolia Ehrh., 2008 L. Speedy 08-0284

Quercus alba L., 2009 L. Speedy 09-1085-1

Quercus bicolor Willd., 2008 L. Speedy 08-0140-2

Quercus coccinea Muenchh., 2008 L. Speedy and D. White 08-1245

Quercus ilicifolia Wangenh., 1948 D.P. Caylor s.n.

Quercus imbricaria Michx., 2009 L. Speedy 09-0218

Quercus montana Willd., 2009 L. Speedy 09-1088 [*Quercus prinus* L.]

Quercus rubra L., 2008 L. Speedy 08-674

Quercus velutina Lam., 1937 O.E. Jennings s.n.

Quercus × *leana* Nutt. (pro sp.), 2007 L. Speedy and G. Davis 07-1836-1

Fumariaceae

Capnoides sempervirens (L.) Borkh., 1968 A.G. Shields s.n. [*Corydalis sempervirens* (L.) Pers.]

Corydalis flavula (Raf.) DC., 2008 L. Speedy 08-0049

Dicentra canadensis (Goldie) Walp., 2007 L. Speedy and C. Tracey LS-07-139

Dicentra cucullaria (L.) Bernh., 2008 L. Speedy 08-0061

Gentianaceae

Bartonia virginica (L.) B.S.P., 1947 L.K. Henry s.n.

Gentiana andrewsii Griseb. var. *andrewsii*, 1957 L.K. Henry s.n.

Gentiana clausa Raf., 2009 L. Speedy 09-1007

Sabatia angularis (L.) Pursh, 1901 C.R. Holmes s.n.

Geraniaceae

Geranium maculatum L., 2009 L. Speedy 09-0241

Grossulariaceae

Ribes cynosbati L., 2008 L. Speedy 08-944

Ribes rubrum L., 2009 L. Speedy 09-0225 Eurasia

Haloragaceae

Myriophyllum spicatum L., 2008 L. Speedy, J.A. Isaac, B.L. Isaac and BSWP 08-1025 Eurasia

Hamamelidaceae

Hamamelis virginiana L., 2009 L. Speedy 09-1098

Hydrangeaceae

Hydrangea arborescens L., 2008 L. Speedy 08-524

Hydrocharitaceae

Elodea canadensis Michx., 2007 L. Speedy, C. Tracey and E. Trexler 07-965

Elodea nuttallii (Planch.) St. John, 2008 L. Speedy and M. Bowers 08-926

Vallisneria americana Michx., 2008 L. Speedy and M. Bowers 08-934

Hydrophyllaceae

Hydrophyllum canadense L., 1957 M.S. Lewis s.n.

Hydrophyllum virginianum L. var. *virginianum*, 2008 L. Speedy 08-400

Iridaceae

Iris pseudacorus L., 2007 L. Speedy and C. Tracey 07-1518 Europe

Iris versicolor L., 1957 M.S. Lewis s.n.

Sisyrinchium angustifolium P. Mill., 2009 L. Speedy 09-666

Juglandaceae

Carya alba (L.) Nutt. ex Ell., 1946 H.A. Wahl 1650 [*Carya tomentosa* (Lam. ex Poir.) Nutt.]

Carya cordiformis (Wangenh.) K. Koch, 2008 L. Speedy 08-389H

Carya glabra (P. Mill.) Sweet, 2008 L. Speedy 08-1039-2 [*Carya ovalis* (Wangenh.) Sarg.]

Carya ovata (P. Mill.) K. Koch, 2009 L. Speedy 09-809-1

Juglans cinerea L., 1952 L.K. Henry and F.H. Beer s.n.

Juglans nigra L., 1993 W.A. Zanol 1597

Juncaceae

- Juncus acuminatus* Michx., 2009 L. Speedy 09-0578
Juncus articulatus L., 2008 L. Speedy 08-1149
Juncus bufonius L., 1908 O.E. Jennings s.n.
Juncus canadensis J. Gay ex Laharpe, 2009 L. Speedy 09-925
Juncus dudleyi Wieg., 2007 L. Speedy LS-07-441
- Juncus effusus* L. ssp. *pylaei*, 2009 L. Speedy 09-920 [*Juncus effusus* L. var. *pylaei* (Laharpe) Fern. & Wieg.]
Juncus effusus L. ssp. *solutus*, 2008 L. Speedy 08-1325
Juncus marginatus Rostk., 2008 L. Speedy 08-1317
Juncus subcaudatus (Engelm.) Coville & Blake var. *subcaudatus*, 2008 L. Speedy 08-1175
Juncus tenuis Willd., 2009 L. Speedy 09-0555
Luzula acuminata Raf. ssp. *acuminata*, 2009 L. Speedy 09-672
Luzula multiflora (Ehrh.) Lej. ssp. *multiflora* var. *multiflora*, 2009 L. Speedy 09-0285

Lamiaceae

- Ajuga reptans* L., 1970 D. Pifer s.n. Eurasia
Blephilia hirsuta (Pursh) Benth. var. *hirsuta*, 2009 L. Speedy 09-650
Clinopodium vulgare L., 1994 B.L. Isaac and J.A. Isaac 6873 [*Satureja vulgaris* (L.) Fritsch]
Collinsonia canadensis L., 2008 L. Speedy 08-1029
Galeopsis bifida Boenn., 2008 L. Speedy 08-1303 Eurasia
Glechoma hederacea L., 2008 L. Speedy 08-347 Eurasia
Hedeoma pulegioides (L.) Pers., 2009 L. Speedy 09-1097
Lamium purpureum L., 1970 A.G. Shields s.n. Eurasia
Leonurus cardiaca L., 1965 A.G. Shields s.n. Asia
Lycopus americanus Muhl. ex W. Bart., 1952 L.K. Henry and F.H. Beer s.n.
Lycopus uniflorus Michx. var. *uniflorus*, 2008 L. Speedy 08-1173
Lycopus virginicus L., 2008 L. Speedy 08-1207
Mentha x piperita L. (pro sp.), 1968 A.G. Shields s.n. Eurasia
Mentha spicata L., 1995 F.H. Utech 95-876 Europe
Mentha x villosa Huds. (pro sp.), 2009 L. Speedy 09-808 Eurasia
Monarda clinopodia L., 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-796
Monarda didyma L., 2009 L. Speedy 09-789
Monarda fistulosa L. ssp. *fistulosa* var. *fistulosa*, 2009 L. Speedy 09-781
Monarda media Willd., 2008 L. Speedy 08-908
Nepeta cataria L., 1901 J.A. Shafer s.n. Eurasia
Physostegia virginiana (L.) Benth. ssp. *virginiana*, 2008 L. Speedy 08-1161
Prunella vulgaris L. ssp. *lanceolata*, 1994 W.A. Zanol 3530
Prunella vulgaris L. ssp. *vulgaris*, 1990 F.H. Utech 90-1233 Europe
Pycnanthemum incanum (L.) Michx. var. *incanum*, 2008 L. Speedy 08-1044
Pycnanthemum tenuifolium Schrad., 1901 J.A. Shafer s.n.
Pycnanthemum verticillatum (Michx.) Pers. var. *verticillatum*, 1954 L.K. Henry and W.E. Buker s.n.
Scutellaria incana Biehler var. *incana*, 2009 L. Speedy 09-786
Scutellaria lateriflora L. var. *lateriflora*, 2008 L. Speedy 08-903
Scutellaria nervosa Pursh, 2009 L. Speedy 09-0237
Stachys palustris L. var. *palustris*, 1951 E.T. Wherry s.n.
Teucrium canadense L. var. *canadense*, 2009 L. Speedy 09-790 [*Teucrium canadense* var. *virginicum* (L.) Eat.]
Trichostema dichotomum L., 1966 J. Peterson s.n.

Lauraceae

- Lindera benzoin* (L.) Blume, 2008 L. Speedy 08-507
Sassafras albidum (Nutt.) Nees, 2008 L. Speedy 08-0171

Lemnaceae

- Lemna minor* L., 2009 L. Speedy 09-1011

Liliaceae

- Allium canadense* L. var. *canadense*, 2007 L. Speedy and C. Porter 07-486
Allium cernuum Roth, 2008 L. Speedy 08-1053
Allium tricoccum Ait., 2008 L. Speedy 08-713
Allium vineale L. ssp. *vineale*, 1981 F.H. Utech 81-050 Europe
Asparagus officinalis L., 1967 J. Gelsdorf s.n. Europe
Chamaelirium luteum (L.) A. Gray, 1942 W.H. Wagner 728
Clintonia umbellulata (Michx.) Morong, 2008 L. Speedy 08-521
Convallaria majalis L., 1895 E.M. McCallister s.n. Europe
Erythronium americanum Ker-Gawl. ssp. *americanum*, 2008 L. Speedy 08-0113
Hemerocallis fulva (L.) L., 1994 S.A. Thompson 11699 Asia
Hypoxis hirsuta (L.) Coville, 1942 R.W. Pohl 3802
Lilium canadense L., 1982 J. Humphreys s.n.
Lilium philadelphicum L., 1957 J. Mash s.n.
Lilium superbum L., 1954 L.K. Henry and W.E. Buker s.n.
Maianthemum canadense Desf., 2008 L. Speedy 08-456
Maianthemum racemosum (L.) Link ssp. *racemosum*, 2007 L. Speedy LS-07-354 [*Smilacina racemosa* (L.) Desf.]
Medeola virginiana L., 2009 L. Speedy 09-0450
Muscari botryoides (L.) P. Mill., 1967 R.K. Riley s.n. Europe
Polygonatum biflorum (Walt.) Ell. var. *commutatum*, 2009 L. Speedy 09-794
Polygonatum pubescens (Willd.) Pursh, 2008 L. Speedy 08-349
Prosartes lanuginosa (Michx.) D. Don, 2009 L. Speedy 09-0158 [*Disporum lanuginosum* (Michx.) Nichols.]
Stenanthium gramineum (Ker-Gawl.) Morong, 2008 L. Speedy 08-1010 **G4G5:S1S2**
Streptopus lanceolatus (Ait.) Reveal var. *lanceolatus*, 2007 L. Speedy LS-07-299 [*Streptopus roseus* Michx. var. *perspectus* Fassett]
Trillium erectum L., 2009 L. Speedy 09-0103 [*Trillium erectum* var. *album* (Michx.) Pursh]
Trillium flexipes Raf., 1952 L.K. Henry and F.H. Beer s.n. **G5:S2**
Trillium grandiflorum (Michx.) Salisb., 2008 L. Speedy 08-0281
Trillium sessile L., 1946 L.K. Henry s.n.
Trillium undulatum Willd., 2008 L. Speedy 08-573
Uvularia perfoliata L., 2008 L. Speedy 08-0164
Uvularia sessilifolia L., 2009 L. Speedy 09-0281
Veratrum latifolium (Desr.) Zomlefer, 1952 L.K. Henry and F.H. Beer s.n. [*Melanthium latifolium* Desr.]
Veratrum viride Ait. var. *viride*, 2008 L. Speedy 08-396

Limnanthaceae

- Floerkea proserpinacoides* Willd., 2008 L. Speedy 08-0117

Linaceae

- Linum striatum* Walt., 2009 L. Speedy 09-658
Linum usitatissimum L., 1901 J.A. Shafer s.n. Europe

Lythraceae

- Cuphea viscosissima* Jacq., 1990 F.H. Utech 90-1235
Lythrum salicaria L., 2009 L. Speedy 09-810 Europe

Magnoliaceae

- Liriodendron tulipifera* L., 2009 L. Speedy 09-0143
Magnolia acuminata (L.) L., 2008 L. Speedy 08-969

Malvaceae

- Abutilon theophrasti* Medik., 1968 A.G. Shields s.n. Asia
Malva moschata L., 1982 M. Cipollini s.n. Europe
Malva neglecta Wallr., 1976 D. Cunkelman s.n. Eurasia

Monotropaceae

- Monotropa hypopithys* L., 1963 A. Ward s.n.
Monotropa uniflora L., 2008 L. Speedy 08-957

Moraceae

Morus alba L., 2007 D. Schneider s.n. Asia

Najadaceae

Najas flexilis (Willd.) Rostk. & Schmidt, 1984 M. Polechko s.n.

Najas gracillima (A. Braun ex Engelm.) Magnus, 2007 L. Speedy, C. Tracey and E. Trexler 07-967 G57:54

Nyctaginaceae

Mirabilis jalapa L., 1965 F. Swalga s.n. Tropical America

Mirabilis nyctaginea (Michx.) MacM., 1958 J.E. Belles s.n.

Nymphaeaceae

Nuphar advena (Ait.) Ait. f. ssp. *advena*, 1984 M. Polechko s.n. [*Nuphar advena* (Ait.) Ait. f.]

Nymphaea odorata Ait. ssp. *odorata*, 2007 L. Speedy, C. Tracey and S. Stewart 07-990

Oleaceae

Fraxinus americana L., 2008 L. Speedy 08-1211

Fraxinus nigra Marsh., 1954 L.K. Henry and W.E. Buker s.n.

Fraxinus pennsylvanica Marsh., 2007 L. Speedy and C. Tracey 07-1497

Ligustrum obtusifolium Sieb. & Zucc., 2008 L. Speedy 08-513 Japan

Onagraceae

Chamerion angustifolium (L.) Holub ssp. *circumvagum*, 1908 O.E. Jennings s.n.

Circaea alpina L. ssp. *alpina*, 2008 L. Speedy 08-989

Circaea canadensis (L.) Hill, 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-795 [*Circaea lutetiana* L. ssp. *canadensis* (L.) Aschers. & Magnus]

Epilobium ciliatum Raf. ssp. *ciliatum*, 2008 L. Speedy 08-1125

Epilobium coloratum Biehler, 2009 L. Speedy 09-896

Epilobium hirsutum L., 2009 L. Speedy 09-1019 Europe

Ludwigia alternifolia L., 2008 L. Speedy 08-1287

Ludwigia palustris (L.) Ell., 2009 L. Speedy 09-921

Oenothera biennis L., 1994 W.A. Zanol 3533

Oenothera fruticosa L. ssp. *glauca*, 2007 L. Speedy 07-788

Oenothera parviflora L., 2008 L. Speedy 08-1321-2

Oenothera perennis L., 2009 L. Speedy 09-612

Oenothera villosa Thunb. ssp. *villosa*, 2009 L. Speedy 09-805

Orchidaceae

Corallorhiza maculata (Raf.) Raf., 1974 W.E. Buker s.n.

Corallorhiza odontorhiza (Willd.) Poir., 1996 J.S. Shriver, A. Shriver and C. Smith 756

Cypripedium acaule Ait., 2007 L. Speedy LS-07-356

Cypripedium parviflorum Salisb. var. *pubescens*, 1947 M.S. Lewis s.n. [*Cypripedium calceolus* var. *pubescens* (Willd.) Correll]

Epipactis helleborine (L.) Crantz, 2009 L. Speedy 09-618 Europe

Galearis spectabilis (L.) Raf., 1904 O.E. Jennings s.n.

Goodyera pubescens (Willd.) R. Br. ex Ait. f., 2009 L. Speedy 09-608

Isotria verticillata Raf., 1968 J. Rummel s.n.

Liparis liliifolia (L.) L.C. Rich ex Ker-Gawl., 1942 W.H. Wagner 720

Liparis loeselii (L.) L.C. Rich., 1968 A.G. Shields s.n.

Platanthera fissa (R. Br.) Lindl., 2002 B. Poglein s.n. [*Habenaria peramoena* A. Gray]

Platanthera flava (L.) Lindl. var. *flava*, 2009 L. Speedy 09-656

Platanthera grandiflora (Bigelow) Lindl., 1908 O.E. Jennings s.n.

Platanthera lacera (Michx.) G. Don, 1946 L.K. Henry s.n.

Platanthera orbiculata (Pursh) Lindl., 1961 J. Mash s.n.

Spiranthes cernua (L.) L.C. Rich., 2008 L. Speedy 08-1315

Spiranthes lacera (Raf.) Raf. var. *gracilis*, 1952 L.K. Henry and F.H. Beer s.n.

Spiranthes ochroleuca (Rydb.) Rydb., 1996 J.S. Shriver, A. Shriver and C. Smith 755

Orobanchaceae

Conopholis americana (L.) Wallr., 2009 L. Speedy 09-0434

Epifagus virginiana (L.) W. Bart., 2009 L. Speedy 09-1084

Orobanche uniflora L., 2008 L. Speedy 08-0180

Oxalidaceae

Oxalis grandis Small, 1945 O.E. Jennings s.n.

Oxalis montana Raf., 2008 L. Speedy 08-626 [*Oxalis acetosella* auct. non L.]

Oxalis stricta L., 2007 L. Speedy LS-07-439

Oxalis violacea L., 2009 L. Speedy 09-0239

Papaveraceae

Chelidonium majus L. var. *majus*, 2008 L. Speedy 08-381 Eurasia

Sanguinaria canadensis L., 2008 L. Speedy 08-0058

Phytolaccaceae

Phytolacca americana L. var. *americana*, 2008 L. Speedy 08-954

Plantaginaceae

Plantago lanceolata L., 2009 L. Speedy 09-659 Europe

Plantago major L., 1982 M. Cipollini s.n. Europe

Plantago rugelii Dcne., 1994 B.L. Isaac and J.A. Isaac 6792

Plantago virginica L., 1904 O.E. Jennings s.n.

Platanaceae

Platanus occidentalis L., 2008 L. Speedy 07-1795-1

Poaceae

Agrostis gigantea Roth, 2009 L. Speedy 09-929 Europe

Agrostis perennans (Walt.) Tuckerman, 2009 L. Speedy 09-1094

Agrostis scabra Willd., 2009 L. Speedy 09-914

Agrostis stolonifera L., 2008 L. Speedy 08-389A Europe

Andropogon gerardii Vitman, 2008 L. Speedy 08-1294

Andropogon glomeratus (Walt.) B.S.P. var. *glomeratus*, 2009 L. Speedy and B. Poglein 09-861 G5:53 [*Andropogon virginicus* L. var. *abbreviatus* (Hack.) Fern. & Grisc.]

Andropogon virginicus L. var. *virginicus*, 2007 L. Speedy 07-1792

Anthoxanthum odoratum L., 2009 L. Speedy 09-607 Eurasia

Aristida dichotoma Michx., 1972 B. Dunn s.n.

Arrhenatherum elatius (L.) Beauv. ex J. & K. Presl var. *elatius*, 2008 L. Speedy 08-627 Europe

Brachyelytrum aristosum (Michx.) Beauv. ex Branner & Coville, 2009 L. Speedy 09-616

Brachyelytrum erectum (Schreb. ex Spreng.) Beauv., 2008 L. Speedy and D. White 08-1241

Bromus arvensis L., 2008 L. Speedy 08-512 Southern Europe

Bromus ciliatus L., 1946 L.K. Henry s.n.

Bromus inermis Leyss., 2009 L. Speedy 09-0435 Europe

Bromus latiglumis (Scribn. ex Shear) A.S. Hitchc., 2008 L. Speedy 08-790 [*Bromus altissimus* Pursh]

Bromus pubescens Muhl. ex Willd., 2009 L. Speedy 09-780

Bromus racemosus L., 2009 L. Speedy 09-0425 Europe

Cinna arundinacea L., 2009 L. Speedy 09-913

Cinna latifolia (Trev. ex Goepp.) Griseb., 2009 L. Speedy 09-1005

Dactylis glomerata L. ssp. *glomerata*, 2008 L. Speedy 08-628 Europe

Danthonia compressa Austin, 2009 L. Speedy and C. Rogers 09-596

Danthonia spicata (L.) Beauv. ex Roemer & J.A. Schultes, 2009 L. Speedy 09-646

Dichanthelium acuminatum (Sw.) Gould & C.A. Clark var. *acuminatum*, 2008 L. Speedy 08-691 [*Panicum acuminatum* Sw.]

Dichanthelium boscii (Poir.) Gould & C.A. Clark, 2009 L. Speedy 09-814 [*Panicum boscii* Poir.]

Dichanthelium clandestinum (L.) Gould, 2008 L. Speedy 08-1291 [*Panicum clandestinum* L.]

Dichanthelium commutatum (J.A. Schultes) Gould, 2009 L. Speedy 09-660 [*Panicum commutatum* J.A. Schultes]

Dichanthelium depauperatum (Muhl.) Gould, 1942 C.E. Wood 2095

- Dichanthelium dichotomum* (L.) Gould var. *dichotomum*, 2009 L. Speedy 09-654 [*Panicum dichotomum* L.]
- Dichanthelium latifolium* (L.) Harville, 2009 L. Speedy and C. Rogers 09-591 [*Panicum latifolium* L.]
- Dichanthelium linearifolium* (Scribn. ex Nash) Gould, 2009 L. Speedy 09-0429 [*Panicum linearifolium* Scribn. ex Nash]
- Dichanthelium portoricense* (Desv. Ex Hamilton) B.F. Hansen & Wunderlin, 1937 O.E. Jennings s.n. [*Panicum sphaerocarpon* Ell.]
- Dichanthelium sabulorum* (Lam.) Gould & C.A. Clark var. *thinium*, 2009 L. Speedy 09-777
- Digitaria ischaemum* (Schreb. ex Schweig.) Schreb. ex Muhl., 2009 L. Speedy 09-802 Eurasia
- Digitaria sanguinalis* (L.) Scop., 1995 F.H. Utech 95-880 Europe
- Echinochloa crus-galli* (L.) Beauv., 2008 L. Speedy and M. Bowers 08-1304 Eurasia
- Echinochloa muricata* (Beauv.) Fern. var. *muricata*, 2007 L. Speedy, C. Tracey and S. Stewart 07-998 Eurasia
- Elymus hystrix* L. var. *hystrix*, 2008 L. Speedy 08-777 [*Hystrix patula* Moench]
- Elymus repens* (L.) Gould, 2009 L. Speedy 09-931 Eurasia
- Elymus riparius* Wieg., 2008 L. Speedy 08-1146
- Elymus villosus* Muhl. ex Willd., 2008 L. Speedy 08-888
- Elymus virginicus* L. var. *virginicus*, 2009 L. Speedy 09-779
- Elymus* × *ebingeri* G. Tucker, 2008 L. Speedy 08-700
- Eragrostis capillaris* (L.) Nees, 2008 L. Speedy 08-1077
- Eragrostis hypnoides* (Lam.) B.S.P., 1952 L.K. Henry and F.H. Beer s.n.
- Eragrostis minor* Host, 1995 F.H. Utech 95-875 Europe
- Eragrostis pectinacea* (Michx.) Nees ex Jedw. var. *pectinacea*, 2009 L. Speedy 09-799
- Eragrostis spectabilis* (Pursh) Steud., 1995 F.H. Utech 95-897
- Festuca arundinacea* Schreb., 2009 L. Speedy 09-0420 Europe
- Festuca pratensis* Huds., 1945 O.E. Jennings s.n. Europe
- Festuca subverticillata* (Pers.) Alexeev, 2009 L. Speedy 09-670 [*Festuca obtusa* Biehler]
- Glyceria canadensis* (Michx.) Trin., 2007 L. Speedy, C. Tracey and S. Stewart 07-997
- Glyceria melicaria* (Michx.) F.T. Hubbard, 2009 L. Speedy and C. Rogers 09-1081
- Glyceria striata* (Lam.) A.S. Hitchc., 2009 L. Speedy 09-0549
- Holcus lanatus* L., 2009 L. Speedy 09-0557 Europe
- Hordeum jubatum* L., 1982 R.P. Bloom s.n.
- Leersia oryzoides* (L.) Sw., 2009 L. Speedy 09-926
- Leersia virginica* Willd., 2008 L. Speedy 08-1324
- Lolium perenne* L. ssp. *multiflorum*, 2009 L. Speedy 09-626 Europe
- Microstegium vimineum* (Trin.) A. Camus, 2008 L. Speedy 08-1346 Tropical Asia
- Milium effusum* L. var. *cisatlanticum*, 1965 A.G. Shields s.n.
- Muhlenbergia frondosa* (Poir.) Fern., 1942 O.E. Jennings s.n.
- Muhlenbergia schreberi* J.F. Gmel., 2009 L. Speedy 09-930
- Muhlenbergia sobolifera* (Muhl. ex Willd.) Trin., 2008 L. Speedy 08-1049
- Muhlenbergia sylvatica* (Torr.) Torr. ex A. Gray, 2008 L. Speedy 08-1142
- Muhlenbergia tenuiflora* (Willd.) B.S.P., 2009 L. Speedy 09-1090
- Panicum capillare* L., 1995 F.H. Utech 95-882
- Panicum dichotomiflorum* Michx. var. *dichotomiflorum*, 2008 L. Speedy 08-1343
- Panicum gatteringeri* Nash, 2007 L. Speedy 07-1686
- Panicum rigidulum* Bosc ex Nees var. *rigidulum*, 2009 L. Speedy and B. Poglein 09-847
- Panicum verrucosum* Muhl., 2008 L. Speedy and M. Bowers 08-1271
- Panicum virgatum* L. var. *virgatum*, 2008 L. Speedy 08-1006
- Phalaris arundinacea* L., 2008 L. Speedy 08-625
- Phleum pratense* L., 2009 L. Speedy 09-630 Europe
- Phragmites australis* (Cav.) Trin. ex Steud., 1982 G. Yakub s.n.
- Poa alsodes* A. Gray, 2009 L. Speedy 09-0207
- Poa compressa* L., 2009 L. Speedy 09-0421 Europe
- Poa cuspidata* Nutt., 1946 L.K. Henry s.n.
- Poa palustris* L., 2009 L. Speedy 09-0565
- Poa pratensis* L. ssp. *pratensis*, 2007 L. Speedy 07-696 Europe
- Poa saltuensis* Fern. & Wieg. ssp. *saltuensis*, 2008 L. Speedy 08-500
- Poa sylvestris* A. Gray, 2009 L. Speedy 09-0234
- Poa trivialis* L., 2008 L. Speedy 08-600 Europe
- Schizachyrium scoparium* (Michx.) Nash var. *scoparium*, 2008 L. Speedy 08-1046
- Setaria faberi* Herrm., 2009 L. Speedy 09-803 Asia
- Setaria pumila* (Poir.) Roemer & J.A. Schultes ssp. *pumila*, 2008 L. Speedy 08-1278 Europe
- Setaria viridis* (L.) Beauv. var. *viridis*, 1994 W.A. Zanol 3509 Eurasia
- Sorghastrum nutans* (L.) Nash, 2009 L. Speedy 09-1073
- Sorghum halepense* (L.) Pers., 1949 J.W. Smith s.n. Mediterranean region
- Spartina pectinata* Bosc ex Link, 2008 L. Speedy and M. Bowers 08-929-2
- Sphenopholis intermedia* (Rydb.) Rydb., 1945 O.E. Jennings s.n. [*Sphenopholis obtusata* var. *major*]
- Sphenopholis obtusata* (Michx.) Scribn., 2009 L. Speedy 09-0558
- Sporobolus vaginiflorus* (Torr. ex A. Gray) Wood, 1995 F.H. Utech 95-873
- Tridens flavus* (L.) A.S. Hitchc. var. *flavus*, 1995 F.H. Utech 95-887
- Triticum aestivum* L., 2008 L. Speedy 08-511 Eurasia
- Zea mays* L. ssp. *mays*, 1909 D.R. Sumstine s.n. Tropical America

Polemoniaceae

- Phlox divaricata* L. ssp. *divaricata*, 2008 L. Speedy 08-330
- Phlox maculata* L. ssp. *maculata*, 1981 F.H. Utech 81-117
- Phlox maculata* L. ssp. *pyramidalis*, 1953 L.K. Henry and F.H. Beer s.n.
- Phlox paniculata* L., 2009 L. Speedy 09-634
- Phlox stolonifera* Sims, 2008 L. Speedy 08-0248
- Phlox subulata* L. ssp. *subulata*, 1994 B.L. Isaac and J.A. Isaac 6871
- Polemonium reptans* L. var. *reptans*, 2008 L. Speedy 08-0215

Polygalaceae

- Polygala ambigua* Nutt., 1951 W.E. Buker and F.H. Beer s.n. [*Polygala verticillata* L. var. *ambigua* (Nutt.) Wood]
- Polygala paucifolia* Willd., 2009 L. Speedy 09-0205
- Polygala sanguinea* L., 2009 L. Speedy and M. Lange 09-998
- Polygala verticillata* L., 2009 L. Speedy and B. Poglein 09-860

Polygonaceae

- Fagopyrum esculentum* Moench, 1908 O.E. Jennings s.n. Asia
- Fallopia cilinodis* (Michx.) Holub, 2009 L. Speedy 09-0584 [*Polygonum cilinode* Michx.]
- Fallopia convolvulus* (L.) A. Löve, 1990 F.H. Utech 90-1270 Eurasia
- Fallopia japonica* (Houtt.) R. Decr., 2008 L. Speedy 08-1203 Asia
- Fallopia sachalinensis* (F. Schmidt) R. Decr., 2008 L. Speedy and D. White 08-1243 Asia
- Fallopia scandens* (L.) Holub, 2007 L. Speedy 07-1793 [*Polygonum scandens* L.]
- Persicaria amphibia* (L.) S.F. Gray p.p., 2008 L. Speedy 08-1344 [*Polygonum coccineum* Muhl. ex Willd. var. *emersa* (Michx.) Hickman]
- Persicaria arifolia* (L.) Haralds., 2007 L. Speedy 07-551 [*Polygonum arifolium* L.]
- Persicaria hydropiper* (L.) Delarbre, 2008 L. Speedy 08-1318 Eurasia
- Persicaria hydropiperoides* (Michx.) Small, 2008 L. Speedy 08-1345 [*Polygonum hydropiperoides* Michx.]
- Persicaria longiseta* (Brujin) Kitagawa, 2008 L. Speedy 08-1264 Asia
- Persicaria maculosa* S.F. Gray, 1952 L.K. Henry and F.H. Beer s.n. Europe
- Persicaria orientalis* (L.) Spach, 1968 W. Cuppett s.n. India

- Persicaria pensylvanica* (L.) M. Gomez, 2008 L. Speedy 08-1127 [*Polygonum pensylvanicum* L.]
- Persicaria posumbu* (Buch.-Ham. ex D. Don) H. Gross, 2008 L. Speedy 08-430 Asia
- Persicaria punctata* (Ell.) Small, 2008 L. Speedy 08-1260 [*Polygonum punctatum* Ell.]
- Persicaria sagittata* (L.) Gross., 2008 L. Speedy 08-1063 [*Polygonum sagittatum* L.]
- Persicaria virginiana* (L.) Gaertn., 2008 L. Speedy 08-1068 [*Polygonum virginianum* L.]
- Polygonum aviculare* L. ssp. *aviculare*, 1994 W.A. Zanol 3541 Europe
- Polygonum aviculare* L. ssp. *depressum*, 1994 W.A. Zanol 3541 Europe
- Rumex acetosella* L., 1993 W.A. Zanol 1551 Eurasia
- Rumex crispus* L. ssp. *crispus*, 2009 L. Speedy 09-0436 Europe
- Rumex obtusifolius* L., 2009 L. Speedy 09-1014 Europe
- Rumex verticillatus* L., 1952 L.K. Henry and F.H. Beer s.n.
- Pontederiaceae**
- Heteranthera dubia* (Jacq.) MacM., 1904 A.E. Ortman s.n. [*Zosterella dubia* (Jacq.) MacM.]
- Portulacaceae**
- Claytonia caroliniana* Michx., 2008 L. Speedy 08-0030
- Claytonia virginica* L. var. *virginica*, 2008 L. Speedy 08-0170
- Portulaca oleracea* L., 1967 A.G. Shields s.n.
- Potamogetonaceae**
- Potamogeton crispus* L., 2007 L. Speedy, C. Tracey and E. Trexler 07-966 Europe
- Potamogeton diversifolius* Raf., 2008 L. Speedy and M. Bowers 08-923
- Potamogeton ephedrus* Raf., 2009 L. Speedy 09-918
- Potamogeton foliosus* Raf. ssp. *foliosus*, 2009 L. Speedy 09-922
- Potamogeton nodosus* Poir., 2007 L. Speedy, C. Tracey and S. Stewart 07-987
- Potamogeton spirillus* Tuckerman, 1984 M. Polechko s.n.
- Stuckenia pectinata* (L.) Böerner, 2008 L. Speedy, J.A. Isaac, B.L. Isaac and BSWP 08-1023
- Primulaceae**
- Lysimachia ciliata* L., 2009 L. Speedy 09-0569
- Lysimachia nummularia* L., 1965 A.G. Shields s.n. Europe
- Lysimachia quadrifolia* L., 2008 L. Speedy 08-571
- Lysimachia terrestris* (L.) B.S.P., 1968 A.G. Shields s.n.
- Lysimachia vulgaris* L., 2008 L. Speedy and M. Bowers 08-931 Eurasia
- Trientalis borealis* Raf. ssp. *borealis*, 2007 L. Speedy LS-07-305
- Pyrolaceae**
- Chimaphila maculata* (L.) Pursh, 2009 L. Speedy and C. Rogers 09-590
- Pyrola americana* Sweet, 1971 W.E. Buker s.n.
- Pyrola elliptica* Nutt., 1994 B.L. Isaac and J.A. Isaac 6886
- Ranunculaceae**
- Actaea pachypoda* Ell., 2008 L. Speedy 08-0292 [*Actaea alba* auct. non (L.) P. Mill.]
- Actaea podocarpa* DC., 2008 L. Speedy 08-1266 G4:S3 [*Cimicifuga americana* Michx.]
- Actaea racemosa* L., 2008 L. Speedy 08-1322 [*Cimicifuga racemosa* (L.) Nutt.]
- Anemone canadensis* L., 1945 O.E. Jennings s.n.
- Anemone quinquefolia* L. var. *quinquefolia*, 2008 L. Speedy 08-331
- Anemone virginiana* L. var. *virginiana*, 2008 L. Speedy 08-724
- Aquilegia canadensis* L., 2008 L. Speedy 08-0188
- Caltha palustris* L. var. *palustris*, 2007 L. Speedy and C. Tracey LS-07-337
- Clematis virginiana* L., 2008 L. Speedy 08-886
- Coptis trifolia* (L.) Salisb., 1969 J. Rummel s.n.
- Ficaria verna* Huds., 2008 L. Speedy 08-0146 Eurasia
- Hepatica nobilis* Schreber var. *acuta*, 2008 L. Speedy 08-0052 [*Anemone acutiloba* (DC.) G. Lawson]
- Hepatica nobilis* Schreber var. *obtusata*, 2008 L. Speedy 08-950 [*Hepatica americana* (DC.) Ker-Gawl.]
- Hydrastis canadensis* L., 2009 L. Speedy 09-0160 G4:S4
- Ranunculus abortivus* L., 2009 L. Speedy 09-0209
- Ranunculus acris* L. var. *acris*, 2008 L. Speedy 08-595 Europe
- Ranunculus allegheniensis* Britt., 1952 L.K. Henry and F.H. Beer s.n.
- Ranunculus bulbosus* L., 1946 M.S. Lewis s.n. Europe
- Ranunculus hispidus* Michx. var. *caricetorum*, 2007 L. Speedy LS-07-295 [*Ranunculus caricetorum* Greene]
- Ranunculus hispidus* Michx. var. *hispidus*, 2009 L. Speedy 09-0208
- Ranunculus hispidus* Michx. var. *nitidus*, 2009 L. Speedy 09-0214 [*Ranunculus septentrionalis* Poir.]
- Ranunculus recurvatus* Poir., 2009 L. Speedy 09-0210
- Ranunculus repens* L., 2009 L. Speedy 09-667 Europe
- Thalictrum coriaceum* (Britt.) Small, 2008 L. Speedy 08-418-2 G4:S2
- Thalictrum dioicum* L., 2008 L. Speedy 08-0125
- Thalictrum pubescens* Pursh, 2009 L. Speedy 09-0559
- Thalictrum thalictroides* (L.) Eames & Boivin, 2009 L. Speedy 09-0150
- Rhamnaceae**
- Ceanothus americanus* L., 2008 L. Speedy 08-687
- Rosaceae**
- Agrimonia gryposepala* Wallr., 2009 L. Speedy 09-1006
- Agrimonia parviflora* Ait., 2009 L. Speedy 09-898
- Agrimonia pubescens* Wallr., 2007 L. Speedy 07-889
- Agrimonia striata* Michx., 2009 L. Speedy 09-811
- Amelanchier arborea* (Michx. f.) Fern., 2009 L. Speedy 09-1093
- Amelanchier laevis* Wieg., 2009 L. Speedy 09-0451
- Amelanchier spicata* (Lam.) K. Koch, 2009 L. Speedy 09-0219 [*Amelanchier stolonifera* Wieg.]
- Aruncus dioicus* (Walt.) Fern., 1957 M.S. Lewis s.n.
- Crataegus chryscarpa* Ashe var. *chryscarpa*, 2009 L. Speedy 09-0195 [*Crataegus coccinea* L. p.p.]
- Crataegus crus-galli* L., 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-827
- Crataegus intricata* Lange, 2009 L. Speedy 09-0159-1
- Crataegus macrosperma* Ashe, 2008 L. Speedy 08-1185
- Crataegus pruinosa* (Wendl. f.) K. Koch, 2008 L. Speedy 08-0183-2
- Crataegus punctata* Jacq., 2009 L. Speedy 09-676
- Crataegus schuettei* Ashe, 2009 L. Speedy 09-0564
- Filipendula rubra* (Hill) B.L. Robins., 2009 L. Speedy 09-632-2 G4G5:S152
- Fragaria vesca* L. ssp. *vesca*, 2008 L. Speedy 08-0266
- Fragaria virginiana* Duchesne ssp. *virginiana*, 2008 L. Speedy 08-0148
- Geum canadense* Jacq. var. *canadense*, 2008 L. Speedy 08-594
- Geum laciniatum* Murr. var. *trichocarpum*, 2009 L. Speedy 09-0577
- Gillenia trifoliata* (L.) Moench, 2008 L. Speedy 08-682 [*Porteranthus trifoliatus* (L.) Britt.]
- Malus coronaria* (L.) P. Mill., 2007 L. Speedy 07-790-1 [*Malus glaucescens* Rehd.]
- Malus pumila* P. Mill., 2008 L. Speedy 08-0141 Eurasia
- Photinia melanocarpa* (Michx.) Robertson & Phipps, 2008 L. Speedy 08-1210 [*Aronia melanocarpa* (Michx.) Eil.]
- Physocarpus opulifolius* (L.) Maxim. var. *opulifolius*, 2008 L. Speedy 08-389B
- Potentilla canadensis* L. var. *canadensis*, 2008 L. Speedy 08-0178
- Potentilla norvegica* L. ssp. *monspehensis*, 2008 L. Speedy 08-1074
- Potentilla recta* L., 1946 H. Roslund s.n. Europe
- Potentilla simplex* Michx., 2009 L. Speedy 09-0235
- Prunus americana* Marsh., 1952 L.K. Henry and F.H. Beer s.n.
- Prunus avium* (L.) L., 2007 L. Speedy and C. Tracey LS-07-339 Eurasia

- Prunus mahaleb* L., 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-829 Europe
- Prunus pensylvanica* L. f. var. *pensylvanica*, 2008 L. Speedy 08-0150
- Prunus serotina* Ehrh. var. *serotina*, 2008 L. Speedy 08-388C
- Prunus virginiana* L., 2008 L. Speedy 08-706
- Rosa carolina* L. var. *carolina*, 2007 L. Speedy, C. Tracey, S. Stewart, T. Vechter and E. Trexler 07-802
- Rosa multiflora* Thunb. ex Murr., 2008 L. Speedy 08-662 Asia
- Rosa palustris* Marsh., 1968 J. A. Ahlborn s.n.
- Rosa rubiginosa* L., 1957 M.S. Lewis s.n. Europe
- Rubus allegheniensis* Porter var. *allegheniensis*, 2009 L. Speedy 09-0244-2
- Rubus dalibarda* L., 1908 O.E. Jennings s.n.
- Rubus flagellaris* Willd., 2009 L. Speedy 09-0242 [*Rubus enslenii* Tratt.]
- Rubus hispida* L., 2009 L. Speedy 09-668
- Rubus occidentalis* L., 2008 L. Speedy 08-389G
- Rubus odoratus* L. var. *odoratus*, 2008 L. Speedy 08-979
- Rubus pensilvanicus* Poir., 2008 L. Speedy 08-389F
- Rubus plicatifolius* Blanch., 1908 O.E. Jennings s.n.
- Rubus pubescens* Raf. var. *pubescens*, 2007 L. Speedy 07-1116
- Sorbus americana* Marsh., 1968 D. Bowman s.n.
- Spiraea alba* Du Roi var. *alba*, 2009 L. Speedy 09-662
- Spiraea japonica* L. f. var. *fortunei*, 2009 L. Speedy 09-674 Japan
- Spiraea tomentosa* L., 2008 L. Speedy and M. Bowers 08-918
- Waldsteinia fragarioides* (Michx.) Tratt. ssp. *fragarioides*, 2009 L. Speedy 09-0211
- Rubiaceae**
- Cephalanthus occidentalis* L., 2008 L. Speedy and M. Bowers 08-924
- Galium aparine* L., 2008 L. Speedy 08-332
- Galium asprellum* Michx., 2009 L. Speedy 09-897
- Galium circaezans* Michx., 2008 L. Speedy 08-1058
- Galium concinnum* Torr. & A. Gray, 1945 O.E. Jennings s.n.
- Galium lanceolatum* Torr., 1952 L.K. Henry and F.H. Beer s.n.
- Galium mollugo* L., 1969 A.G. Shields s.n. Eurasia
- Galium tinctorium* (L.) Scop., 2007 L. Speedy and C. Tracey 07-981
- Galium triflorum* Michx., 2008 L. Speedy 08-955
- Galium verum* L. var. *verum*, 1935 W.R. VanDersal s.n. Eurasia
- Houstonia caerulea* L., 2007 L. Speedy 08-433
- Mitchella repens* L., 2009 L. Speedy 09-0441
- Salicaceae**
- Populus grandidentata* Michx., 2008 L. Speedy 08-0093
- Populus tremuloides* Michx., 1952 L.K. Henry and F.H. Beer s.n.
- Salix discolor* Muhl., 2007 L. Speedy and C. Tracey 08-340
- Salix eriocephala* Michx., 1942 O.E. Jennings s.n.
- Salix humilis* Marsh. var. *humilis*, 1956 L.K. Henry and W.E. Buker s.n.
- Salix nigra* Marsh., 2008 L. Speedy and M. Bowers 08-927
- Salix petiolaris* Sm., 2007 L. Speedy and C. Tracey 07-1502 G5:54
[*Salix x subsericea* (Anders.) Schneid.]
- Salix sericea* Marsh., 2009 L. Speedy 09-0194-2
- Saxifragaceae**
- Chrysosplenium americanum* Schwein. ex Hook., 2008 L. Speedy 08-0203
- Heuchera americana* L. var. *americana*, 2008 L. Speedy 08-683
- Micranthes pensylvanica* (L.) Haw., 1908 O.E. Jennings s.n.
- Micranthes virginiana* (Michx.) Small, 2008 L. Speedy 08-337
- Mitella diphylla* L., 2009 L. Speedy 09-0224
- Tiarella cordifolia* L., 2008 L. Speedy 08-346
- Scrophulariaceae**
- Aureolaria laevigata* (Raf.) Raf., 2007 L. Speedy 07-1111
- Aureolaria pedicularia* (L.) Raf., 1901 J.A. Shafer s.n.
- Aureolaria virginica* (L.) Pennell, 2008 L. Speedy 08-816
- Chaenorhium minus* (L.) Lange, 2008 L. Speedy 08-510 Europe
- Chelone glabra* L., 2008 L. Speedy 08-1168
- Gratiola neglecta* Torr., 2009 L. Speedy 09-624
- Linaria vulgaris* P. Mill., 1990 F.H. Utech 90-1231 Eurasia
- Lindernia dubia* (L.) Pennell var. *dubia*, 2008 L. Speedy 08-902
- Melampyrum lineare* Desr. var. *lineare*, 1908 O.E. Jennings s.n.
[*Melampyrum lineare* var. *americanum* (Michx.) Beauverd]
- Mimulus alatus* Ait., 2007 L. Speedy and C. Tracey 07-1496
- Mimulus ringens* L. var. *ringens*, 2008 L. Speedy 08-1144
- Pedicularis canadensis* L. ssp. *canadensis*, 2009 L. Speedy 09-815
- Penstemon digitalis* Nutt. ex Sims, 2009 L. Speedy 09-611
- Penstemon laevigatus* Ait., 1945 O.E. Jennings s.n. G5:53
- Scrophularia lanceolata* Pursh, 2008 L. Speedy 08-438
- Scrophularia marilandica* L., 2009 L. Speedy 09-791
- Verbascum blattaria* L., 1982 M. Cipollini s.n. Eurasia
- Verbascum thapsus* L., 1954 M.S. Lewis s.n. Europe
- Veronica americana* Schwein. ex Benth., 1948 E. Mason s.n.
- Veronica anagallis-aquatica* L., 1964 A.G. Shields s.n.
- Veronica arvensis* L., 1946 L.K. Henry s.n. Eurasia
- Veronica officinalis* L., 2009 L. Speedy 09-0246
- Veronica serpyllifolia* L. ssp. *serpyllifolia*, 1972 L.K. Henry and W.E. Buker s.n. Europe
- Veronicastrum virginicum* (L.) Farw., 2008 L. Speedy 08-879
- Simaroubaceae**
- Ailanthus altissima* (P. Mill.) Swingle, 2009 L. Speedy 09-1071 Asia
- Smilacaceae**
- Smilax glauca* Walt., 1901 J.A. Shafer s.n.
- Smilax herbacea* L., 1987 F.H. Utech 87-086
- Smilax rotundifolia* L., 2008 L. Speedy 08-962
- Solanaceae**
- Physalis heterophylla* Nees var. *heterophylla*, 2008 L. Speedy 08-803
- Physalis longifolia* Nutt. var. *subglabrata*, 1990 F.H. Utech 90-1253
[*Physalis subglabrata* Mackenzie & Bush]
- Solanum carolinense* L. var. *carolinense*, 2008 L. Speedy 08-1117
- Solanum dulcamara* L. var. *dulcamara*, 1952 L.K. Henry and F.H. Beer s.n. Eurasia
- Sparganiaceae**
- Sparganium americanum* Nutt., 2009 L. Speedy 09-919
- Sparganium emersum* Rehmann, 2009 L. Speedy and C. Rogers 09-1075 [*Sparganium chlorocarpum* Rydb.]
- Staphyleaceae**
- Staphylea trifolia* L., 2007 L. Speedy 07-1804
- Tiliaceae**
- Tilia americana* L. var. *americana*, 2009 L. Speedy 09-797
- Tilia americana* L. var. *heterophylla*, 2008 L. Speedy 08-993
- Typhaceae**
- Typha angustifolia* L., 2007 L. Speedy and C. Tracey 07-1514 Europe
- Typha latifolia* L., 2008 L. Speedy 08-1172
- Ulmaceae**
- Celtis occidentalis* L., 2008 L. Speedy and M. Bowers 08-1352
- Ulmus americana* L., 1955 J. Chunko & C. Empfield s.n.
- Ulmus rubra* Muhl., 2008 L. Speedy 08-388G
- Urticaceae**
- Boehmeria cylindrica* (L.) Sw., 2008 L. Speedy 08-1261
- Laportea canadensis* (L.) Weddell, 2008 L. Speedy 08-420
- Pilea pumila* (L.) A. Gray, 2008 L. Speedy 08-1349
- Urtica dioica* L. ssp. *dioica*, 1953 L.K. Henry and F.H. Beer s.n.
- Valerianaceae**
- Valeriana officinalis* L., 2009 L. Speedy 09-0586 Eurasia
- Valerianella chenopodiifolia* (Pursh) DC., 2009 L. Speedy 09-0240
- Verbenaceae**
- Phryma leptostachya* L., 2008 L. Speedy 08-1031

Verbena hastata L., 2008 L. Speedy 08-1136
Verbena urticifolia L., 2008 L. Speedy 08-799

Violaceae

Viola bicolor Pursh, 2008 L. Speedy 08-0092
Viola blanda Willd. var. *blanda*, 2009 L. Speedy 09-0153
Viola canadensis L. var. *canadensis*, 2008 L. Speedy 08-406
Viola cucullata Ait., 2009 L. Speedy 09-0280
Viola hastata Michx., 2008 L. Speedy 08-0298
Viola hirsutula Brainerd, 1952 L.K. Henry and F.H. Beer s.n.
Viola labradorica Schrank, 2009 L. Speedy 09-0149
Viola lanceolata L. ssp. *lanceolata*, 2008 L. Speedy 08-1286
Viola macloskeyi Lloyd ssp. *pallens*, 2007 L. Speedy, S Stewart and C. Tracey 07-473 [*Viola pallens* (Banks ex Ging) Brainerd]
Viola palmata L., 2009 L. Speedy 09-0146
Viola pubescens Ait., 2009 L. Speedy 09-0162 [*Viola pubescens* var. *scabriuscula* Schwein. ex Torr. & A. Gray]
Viola rostrata Pursh, 2008 L. Speedy 08-0198
Viola rotundifolia Michx., 2009 L. Speedy 09-615
Viola sagittata Ait. var. *ovata*, 1953 L.K. Henry and F.H. Beer s.n.
Viola sagittata Ait. var. *sagittata*, 1952 L.K. Henry and F.H. Beer s.n.
Viola sororia Willd., 2008 L. Speedy 08-0304
Viola striata Ait., 2008 L. Speedy 08-388E
Viola tricolor L., 2007 L. Speedy LS-07-44 Europe
Viola × *eclipses* House, 2008 L. Speedy 08-0160 [*Viola* × *conturbata* House]
Viola × *brauniae* Grover ex Cooperrider, 1952 L.K. Henry and F.H. Beer s.n.
Viola × *eclipses* H.E. Ballard, 1952 L.K. Henry and F.H. Beer s.n.

Vitaceae

Parthenocissus quinquefolia (L.) Planch, 2009 L. Speedy 09-1074
Vitis aestivalis Michx. var. *bicolor*, 2008 L. Speedy 08-444
Vitis labrusca L., 2009 L. Speedy 09-807
Vitis vulpina L., 1993 W.A. Zanol 1583

GYMNOSPERMS

Cupressaceae

Juniperus virginiana L. var. *virginiana*, 2009 L. Speedy 09-1091

Pinaceae

Larix decidua P. Mill., 2009 L. Speedy and C. Rogers 09-1076-1 Europe
Pinus rigida P. Mill., 1952 L.K. Henry and F.H. Beer s.n.
Pinus strobus L., 2008 L. Speedy 08-374-2
Pinus sylvestris L., 2009 L. Speedy 09-605-2 Eurasia
Pinus virginiana P. Mill., 1952 L.K. Henry and F.H. Beer s.n.
Tsuga canadensis (L.) Carr., 2008 L. Speedy 08-357

Taxaceae

Taxus canadensis Marsh., 1927 E. Oberlin s.n. **G5:S354**

PTERIDOPHYTES

Aspleniaceae

Asplenium montanum Willd., 1990 B.L. Isaac and J.A. Isaac 3088
Asplenium platyneuron (L.) B.S.P., 2009 L. Speedy 09-1096
Asplenium rhizophyllum L., 2008 L. Speedy 08-0054
Asplenium trichomanes L. ssp. *quadrivalens*, 2008 L. Speedy 08-436
Asplenium trichomanes L. ssp. *trichomanes*, 2008 L. Speedy 08-454

Dennstaedtiaceae

Dennstaedtia punctilobula (Michx.) T. Moore, 2008 L. Speedy 08-582
Pteridium aquilinum (L.) Kuhn var. *latiusculum*, 2008 L. Speedy 08-452

Dryopteridaceae

Athyrium angustum (Willd.) K. Presl, 1954 L.K. Henry and W.E. Buker s.n. [*Athyrium filix-femina* (L.) Roth var. *michauxii* (Spreng.) Farw.]

Athyrium asplenoides (Michx.) A.A. Eat., 1954 L.K. Henry s.n.
Cystopteris bulbifera (L.) Bernh., 1995 J.D. Wagner and L.L. Smith 940
Cystopteris fragilis (L.) Bernh., 1942 C.E. Wood 2090
Cystopteris protrusa (Weatherby) Blasdel, 2008 L. Speedy 08-465
Cystopteris tenuis (Michx.) Desv., 2008 L. Speedy 08-459
Deparia acrostichoides (Sw.) M. Kato, 2008 L. Speedy 08-985
 [*Athyrium thelypteroides* (Michx.) Desv.]
Dryopteris carthusiana (Vill.) H.P. Fuchs, 2009 L. Speedy 09-0202
Dryopteris cristata (L.) A. Gray, 2007 L. Speedy and M. Bowers 07-871

Dryopteris goldiana (Hook. ex Goldie) A. Gray, 1913 J. Bright s.n.
Dryopteris intermedia (Muhl. ex Willd.) A. Gray, 2008 L. Speedy 08-953

Dryopteris marginalis (L.) A. Gray, 2008 L. Speedy 08-457
Dryopteris × *triploidea* Wherry, 1994 B.L. Isaac and J.A. Isaac 6857
Gymnocarpium dryopteris (L.) Newman, 1969 A.G. Shields s.n.
Matteuccia struthiopteris (L.) Todaro, 2008 L. Speedy 08-984-2
Onoclea sensibilis L., 2008 L. Speedy 08-1155
Polystichum acrostichoides (Michx.) Schott, 2008 L. Speedy 08-462
Woodsia obtusa (Spreng.) Torr. ssp. *obtusa*, 2008 L. Speedy 08-441

Equisetaceae

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Isoetaceae

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Lycopodiaceae

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Dendrolycopodium obscurum (L.) Haines, 2008 L. Speedy and D. White 08-1246 [*Lycopodium obscurum* L.]
Diphasiastrum digitatum (Dill. ex A. Braun) Holub, 2009 L. Speedy 09-0432
Diphasiastrum tristachyum (Pursh) Holub, 2009 L. Speedy and C. Rogers 09-1080
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Huperzia lucidula (Michx.) Trevisan, 2008 L. Speedy 08-373
Lycopodium clavatum L., 2009 L. Speedy 09-0245
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Sceptridium dissectum (Spreng.) Lyon, 2007 L. Speedy and C. Tracey 07-1517 [*Botrychium dissectum* Spreng.]

Osmundaceae

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Osmundastrum cinnamomeum (L.) K. Presl, 2009 L. Speedy 09-0283
 [*Osmunda cinnamomea* L.]
Osmundastrum claytonianum (L.) Tagawa, 2009 L. Speedy and C. Rogers 09-593 [*Osmunda claytoniana* L.]

Polypodiaceae

Polypodium appalachianum Haufler & Windham, 1994 B.L. Isaac and J.A. Isaac 6825
Polypodium virginianum L., 2008 L. Speedy 08-952

Pteridaceae*Adiantum pedatum* L., 2009 L. Speedy 09-0161*Pellaea atropurpurea* (L.) Link, 2007 L. Speedy, C. Tracey, S. Stewart,
T. Vechter and E. Trexler 07-811*Phegopteris hexagonoptera* (Michx.) Fée, 2009 L. Speedy 09-0238
[*Thelypteris hexagonoptera* (Michx.) Weatherby]*Thelypteris palustris* Schott var. *pubescens*, 2008 L. Speedy 08-1163**Thelypteridaceae***Parathelypteris noveboracensis* (L.) Ching, 2009 L. Speedy 09-0448
[*Thelypteris noveboracensis* (L.) Nieuwl.]

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