GENERAL INFORMATION

Missouri Botanical Garden is pleased to offer its eleventh annual *Index Seminum*. Most seed is collected from naturally occurring populations. Species that are known weeds in disturbed areas in North America, known to be invasive to North America or other continents, and related species known to be invasive to North America or other continents have been excluded from the list. While we have made every effort to ensure that we are not distributing invasive or potentially invasive plants, selections should be made carefully with consideration of the environment in which the species will be grown. We support the Convention on Biological Diversity. The seeds offered here are for the use of the common good in the areas of research and development of public gardens and plant collections. They should not be used for commercial profit. If publications result from the use of this material, we expect acknowledgement as the source of the material and an unsolicited reprint of any publication.

Missouri Botanical Garden is a member of the International Plant Exchange Network (IPEN). IPEN numbers are assigned to all plants that may be distributed. The IPEN number remains connected to the plant material and its derivatives through all generations to come. The IPEN number consists of the following:

2. Restrictions of transfer (one position, "1" if there exist a restriction, "0" if none).
3. Garden code, which can be found on Utrecht Botanic Garden’s website.
4. Identification number (accession number of the specific garden. Example: 2004-149 or 03214, whatever the specific recording system of the gardens generates).

GEOGRAPHICAL DATA

Most seeds offerings were collected in Missouri, from all four of the Natural Divisions within the state: the Ozark Border; the Mississippi Lowlands located in the Missouri boot heel along the Mississippi River; the Ozark Highlands, located in south-central Missouri and northern Arkansas; and the Glaciated Plains, roughly including the northern third of the state. In general, Missouri’s four eco-regions are separated by the Missouri and Mississippi Rivers, which divide the rolling prairie lands of northern Missouri which were formed by glaciers, from the Ozark Plateau that was formed by uplift and erosion.

Additional collections were made from the Blue Ridge and Piedmont regions of South Carolina and Virginia. The Blue Ridge Mountains, located on the eastern edge or front range of the Appalachian Mountains, are dominated by oak-hickory forests, and average 2,000-4,000 feet above sea level. The Piedmont, located at the foot of the Blue Ridge Mountains, consists primarily of rolling hills between 300 and 1,500 feet above sea level, with temperate climate that averages 45-50 inches of rain per year. The collections from Mississippi and Arkansas are from the Mississippi Alluvial Plain, characterized by broad, level river terraces coated in alluvium, loess, and lacustrine deposits. Finally, we offer a few Georgian collections from the Mediterranean forests between the Greater and Lesser Caucasus mountain ranges.

SEED SELECTIONS

Requests are limited to 10 items and must be submitted by August 1st, 2023. Please submit requests to via email to katherine.freeman@mobot.org or mail requests to: Missouri Botanical Garden, c/o Katherine Freeman/ Plant Records, 4344 Shaw Blvd., St. Louis, MO 63110, U.S.A.

NON INDEX SEMINUM PLANT MATERIAL REQUESTS

Requests for plant material not offered on our index seminum are reviewed on a case-by-case basis and can be submitted online through the [Plant Material Request form](#). The Missouri Botanical Garden will provide assistance for most requests from researchers or fellow botanical gardens free of charge, as staff resources allow. The Garden reserves the right to deny access to plant material based on the restrictions placed on the material by the country of origin, owner, or specific permit conditions. Requests originating from foreign countries must be accompanied by the proper import permits and mailing labels for importation purposes. A fee will be charged to cover shipping and phytosanitary certificates for all international requests on non index seminum requests.
ALISMATACEAE
Echinodorus berteroi var. berteroi
(IPEN US-0-MO-2018-1285)
Collected 08/02/2018, St. Charles County, Missouri.

ASTERACEAE
Achillea millefolium L.
(IPEN US-1-MO-2021-1682)
Collected 07/29/2021, Newton County, Missouri.

Antennaria parlinii Fernald
(IPEN US-0-MO-2017-1434)
Collected 04/27/2016, Franklin County, Missouri.

Boltonia decurrens (Torrey & Gray) A. Wood
(IPEN US-0-MO-2014-0162)
Collected 10/16/2013, Madison County, Missouri.

Coreopsis lanceolata L.
(IPEN US-0-MO-2015-1171)
Collected 07/16/2015, Franklin County, Missouri.

Erechtites hieraciifolius var. hieraciifolius
(IPEN US-0-MO-2018-1863)
Collected 10/25/2018, Lincoln County, Missouri.

Helenium autumnale L.
(IPEN US-0-MO-2016-2008)

Helianthus mollis Lam.
(IPEN US-0-MO-2016-1909)
Collected 09/28/2016, Crawford County, Missouri.

Liatris scariosa var. nieuwländii Lunell
(IPEN US-0-MO-2013-1690)
Collected 09/24/2013, Lincoln County, Missouri.

Marshallia caespitosa var. signata Beadle & F.E. Boynton
(IPEN US-0-MO-2020-0770)
Collected 07/02/2020, Ozark County, Missouri.

Mikania scandens (L.) Willd.
(IPEN US-0-MO-2017-2636)
Collected 10/05/2017, Scott County, Missouri.

Ratibida pinnata (Vent.) Barnhart.
(IPEN US-0-MO-2017-2482)
Collected 09/14/2017, Franklin County, Missouri.

Rudbeckia fulgida var. umbrosa (C.L. Boynton & Beadle) Cronquist
(IPEN US-0-MO-2017-3073)
Collected 11/02/2017, Washington County, Missouri.

Rudbeckia hirta L.
(IPEN US-0-MO-2013-1583)
Collected 08/17/2013, Howell County, Missouri.

Solidago gattingeri Chapm. ex A. Gray
(IPEN US-0-MO-2013-2332)
Collected 11/11/2013, Shannon County, Missouri.

Solidago nemoralis subsp. nemoralis
(IPEN US-0-MO-2016-2060)

Solidago patula var. patula
(IPEN US-0-MO-2015-1724)
Collected 10/23/2015, Washington County, Missouri.

Solidago ptarmicoides (Torr. & A. Gray) B. Boivin
(IPEN US-0-MO-2013-2331)
Collected 11/11/2013, Shannon County, Missouri.

Solidago riddellii Frank
(IPEN US-0-MO-2015-1769)
Collected 10/29/2015, Washington County, Missouri.

Solidago rigida L.
(IPEN US-0-MO-2013-2333)
Collected 11/11/2013, Shannon County, Missouri.

Solidago ulmifolia Muhl. ex Willd.
(IPEN US-0-MO-2016-2350)
Collected 11/04/2016, Franklin County, Missouri.

Symphyotrichum puniceum (L.) Á. Löve & D. Löve
(IPEN US-0-MO-2015-1751)
Collected 10/29/2015, Washington County, Missouri.

ATHYRIACEAE
Diplazium pycnocarpon (Spreng.) M. Broun
(IPEN US-0-MO-2017-2341)
Collected 08/10/2017, Shannon County, Missouri.

BRASSICACEAE
Boechera laevigata Al-Shehbaz
(IPEN US-0-MO-2021-1689)
Collected 08/06/2021, Franklin County, Missouri.

Lepidium virginicum
(IPEN US-0-MO-2018-0982)
Collected 06/14/2018, Benton County, Missouri.

CARYOPHYLLACEAE
Silene regia Sims
(IPEN US-0-MO-2020-1210)
Collected 09/03/2020, Lawrence County, Missouri.

CYPERACEAE
Carex annectens var. annectens
(IPEN US-0-MO-2016-1411)
Collected 07/04/2016, Reynolds County, Missouri.
Carex crinita Lam.  
(IPEN US-0-MO-2014-1817)  
Collected 06/18/2014, Bollinger County, Missouri.

Carex cristatella Britton  
(IPEN US-0-MO-2016-2126)  
Collected 10/25/2016, Lewis County, Missouri.

Carex festucaea Schkuhr. ex Wild.  
(IPEN US-0-MO-2018-0974)  
Collected 06/13/2018, Barton County, Missouri.

Carex molesta Mack.  
(IPEN US-0-MO-2016-1117)  
Collected 06/10/2016, Franklin County, Missouri.

Carex muskingumensis Schweinf.  
(IPEN US-0-MO-2016-2116)  
Collected 10/25/2016, Lewis County, Missouri.

Carex normalis Mack.  
(IPEN US-0-MO-2020-1311)  
Collected 10/01/2020, Mississippi County, Missouri.

Carex retroflexa Muhl. ex Willd.  
(IPEN US-0-MO-2013-1312)  
Collected 06/13/2013, Franklin County, Missouri.

Carex suberecta (Olney) Britton  
(IPEN US-0-MO-2014-1926)  
Collected 08/05/2014, Dent County, Missouri.

Carex suberecta (Olney) Britton  
(IPEN US-0-MO-2022-0912)  
Collected 06/20/2022, Reynolds County, Missouri.

Carex tribuloides Wahlenb.  
(IPEN US-0-MO-2022-0935)  
Collected 06/24/2022, Franklin County, Missouri.

Carex vulpioidea Michaux  
(IPEN US-0-MO-2014-1930)  
Collected 08/05/2014, Dent County, Missouri.

Carex vulpioidea Michaux  
(IPEN US-0-MO-2016-1410)  
Collected 07/04/2016, Reynolds County, Missouri.

Cyperus echinatus (L.) Alph. Wood  
(IPEN US-0-MO-2017-2510)  
Collected 09/21/2017, Taney County, Missouri.

Cyperus pseudovegetus var. pseudovegetus  
(IPEN US-0-MO-2017-2630)  
Collected 10/05/2017, Scott County, Missouri.

Cyperus squarrosus L.  
(IPEN US-0-MO-2017-2536)  
Collected 09/26/2017, St. Louis County, Missouri.

Lipocarpha micrantha (Vahl) G.C. Tucker  
(IPEN US-0-MO-2017-2614)  
Collected 10/05/2017, Scott County, Missouri.

Scirpus polyphyllus Vahl  
(IPEN US-0-MO-2014-2027)  
Collected 07/10/2014, Bollinger County, Missouri.

Scirpus polyphyllus Vahl  
(IPEN US-0-MO-2014-2028)  
Collected 08/25/2014, Bollinger County, Missouri.

Scirpus polyphyllus Vahl  
(IPEN US-0-MO-2014-2039)  
Collected 08/20/2014, Madison County, Missouri.

**DRYOPTERIDACEAE**

Dryopteris marginalis (L.) A. Gray  
(IPEN US-0-MO-2022-1342)  
Collected 08/24/2022, Ste. Genevieve County, Missouri.

**ERICACEAE**

Rhododendron minus Michx.  
(IPEN US-0-MO-2022-0022)  
Collected 12/24/2021, Oconee County, South Carolina.

**FABACEAE**

Amorpha canescens Pursh  
(IPEN US-0-MO-2016-1926)  
Collected 09/28/2016, Crawford County, Missouri.

Dalea candida (Michx.) Wild.  
(IPEN US-0-MO-2015-1407)  
Collected 08/18/2015, Lincoln County, Missouri.

Desmodium canadense (L.) DC.  
(IPEN US-0-MO-2021-1739)  
Collected 08/12/2021, Grundy County, Missouri.

**GENTIANACEAE**

Gentiana septemfida Pall.  
(IPEN GE-0-MO-2019-2547)  

Sabatia angularis (L.) Pursh.  
(IPEN US-0-MO-2015-2082)  
Collected 08/31/2015, Franklin County, Missouri.

**HYDRANGEACEAE**

Hydrangea arborescens L.  
(IPEN US-0-MO-2013-2340)  
Collected 11/13/2013, Howell County, Missouri.
Hydrangea arborescens L.  
(US-0-MO-2021-3020)  
Collected 10/01/2019, Highland County, Virginia.

Hydrangea arborescens L.  
Collected 09/22/2019, Grayson County, Virginia.

Philadelphus caucasicus Koehne  
(IPEN GE-0-MO-2019-2551)  

HYDROLEACEAE  
Hydrolea uniflora Raf.  
(IPEN US-0-MO-2017-2756)  
Collected 10/10/2017, Stoddard County, Missouri.

HYPERICACEAE  
Hypericum androsaemum L.  
(IPEN GE-0-MO-2016-1207)  
Collected 10/10/2017, Stoddard County, Missouri.

Hypericum sp.  
Collected 09/21/2019, Grayson County, Virginia.

Triadenum walteri (J.F. Gmel.) Gleason  
(IPEN US-0-MO-2017-2718)  
Collected 10/17/2017, Stoddard County, Missouri.

JUNCACEAE  
Juncus acuminatus Michx.  
(IPEN US-0-MO-2016-1207)  
Collected 10/10/2017, Stoddard County, Missouri.

Juncus acuminatus Michx.  
(IPEN US-0-MO-2018-0973)  
Collected 06/13/2018, Barton County, Missouri.

Juncus anthelatus (Wiegand) R.E. Brooks  
(IPEN US-0-MO-2020-1375)  
Collected 06/13/2018, Barton County, Missouri.

Juncus biflorus Elliott  
(IPEN US-0-MO-2020-1134)  
Collected 06/17/2020, Franklin County, Missouri.

Juncus brachycarpus Engelm.  
(IPEN US-0-MO-2017-1914)  
Collected 06/17/2020, Franklin County, Missouri.

LAMIACEAE  
Agastache nepetoides (L.) Kuntze  
(IPEN US-0-MO-2020-1521)  
Collected 10/10/2020, Lincoln County, Missouri.

Agastache scrophulariifolia (Willd.) Kuntze  
(IPEN US-0-MO-2022-1624)  
Collected 09/17/2022, Harrison County, Missouri.

Pycnanthemum muticum (Michx.) Pers.  
(IPEN US-0-MO-2017-2762)  
Collected 10/18/2017, Stoddard County, Missouri.

LYTHRACEAE  
Ammannia coccinea Rottb.  
(IPEN US-0-MO-2013-1074)  
Collected 10/31/2012, Washington County, Missouri.

MELANTHIACEAE  
Melanthium virginicum L.  
(IPEN US-0-MO-2015-1722)  
Collected 10/23/2015, Washington County, Missouri.

Melanthium virginicum L.  
(IPEN US-0-MO-2021-1735)  
Collected 08/12/2021, Grundy County, Missouri.

ONAGRACEAE  
Ludwigia alternifolia L.  
(IPEN US-0-MO-2013-1058)  
Collected 10/14/2011, Madison County, Arkansas.

Ludwigia leptocarpa (Nutt.) H. Hara  
(IPEN US-0-MO-2017-2760)  
Collected 10/18/2017, Stoddard County, Missouri.

Oenothera biennis L.  
(IPEN US-0-MO-2016-1876)  
Collected 09/21/2016, St. Louis County, Missouri.

ORCHIDACEAE  
Spiranthes magnicamporum Sheviak  
(IPEN US-0-MO-2019-2040)  
Collected 09/20/2019, Franklin County, Missouri.

OROBANCHACEAE  
Castilleja coccinea (L.) Spreng.  
(IPEN US-0-MO-2019-1118)  
Collected 05/20/2019, Jefferson County, Missouri.

PENTHORACEAE  
Penthorum sedoides L.  
(IPEN US-0-MO-2016-2115)  
Collected 10/25/2016, Lewis County, Missouri.

PLANTAGINACEAE  
Veronicastrum virginicum (L.) Farw.  
(IPEN US-0-MO-2015-1408)  
Collected 08/18/2015, Lincoln County, Missouri.
**POACEAE**

*Chloris verticillata* Nutt.
(IPEN US-0-MO-2017-2523)
Collected 09/22/2017, Taney County, Missouri.

*Eragrostis curtipedicellata* Buckley
(IPEN US-0-MO-2017-2522)
Collected 09/22/2017, Taney County, Missouri.

*Eragrostis intermedia var. intermedia*
(IPEN US-0-MO-2017-2526)
Collected 09/22/2017, Taney County, Missouri.

*Eragrostis spectabilis* (Pursh) Steud.
(IPEN US-0-MO-2017-2635)
Collected 10/05/2017, Scott County, Missouri.

*Glyceria striata* (Lam.) Hitchc.
(IPEN US-0-MO-2014-1863)
Collected 06/25/2014, Madison County, Missouri.

*Glyceria striata* (Lam.) Hitchc.
(IPEN US-0-MO-2016-1199)
Collected 06/13/2016, Reynolds County, Missouri.

*Glyceria striata* (Lam.) Hitchc.
(IPEN US-0-MO-2020-0938)
Collected 06/24/2022, Franklin County, Missouri.

*Koeleria macrantha* (Ledeb.) Schult.
(IPEN US-0-MO-2017-1929)
Collected 06/22/2017, Newton County, Missouri.

*Leptochloa fusca subsp. fascicularis* (Lam.) N. Snow
(IPEN US-0-MO-2017-2537)
Collected 09/26/2017, St. Louis County, Missouri.

*Muhlenbergia glabriflora* Scribn.
(IPEN US-0-MO-2015-1879)
Collected 11/05/2015, Lincoln County, Missouri.

*Panicum virgatum* L.
(IPEN US-0-MO-2014-0157)
Collected 10/22/2013, Ozark County, Missouri.

**POLYGONACEAE**

*Rumex stenophyllus* Ledeb.
(IPEN US-0-MO-2020-1057)
Collected 08/06/2020, St. Charles County, Missouri.

*Rumex triangulivalvis* (Danser) Rech. f.
(IPEN US-0-MO-2017-1921)
Collected 06/22/2017, Dade County, Missouri.

**POLYPODIACEAE**

*Polypodiun virginianum* L.
(IPEN US-0-MO-2017-1586)
Collected 05/11/2017, Jefferson County, Missouri.

**PTERIDACEAE**

*Adiantum pedatum* L.
(IPEN US-0-MO-2022-1340)
Collected 08/24/2022, Ste. Genevieve County, Missouri.

**RANUNCULACEAE**

*Clematis vitalba* L.
(IPEN GE-0-MO-2019-2528)
Collected 09/21/2019, Mtskheta-Mtianeti.

**ROSACEAE**

*Geum vernum* (Raf.) Torr. & A. Gray
(IPEN US-0-MO-2019-1032)
Collected 05/17/2019, Jefferson County, Missouri.

*Potentilla norvegica* L.
(IPEN US-0-MO-2020-1059)
Collected 08/06/2020, St. Charles County, Missouri.

**SARRACENIACEAE**

*Sarracenia alata* (Alph. Wood) Alph. Wood
(IPEN US-0-MO-2021-2329)
Collected 10/27/2021, Greene County, Mississippi.

**SAXIFRAGACEAE**

*Boykinia aconitifolia* Nutt.
Collected 09/27/2019, Giles County, Virginia.

*Heuchera americana* L.
(IPEN US-0-MO-2018-0908)
Collected 06/06/2018, Montgomery County, Missouri.

*Heuchera richardsonii* R. Br.
(IPEN US-0-MO-2022-0899)
Collected 06/13/2022, St. Clair County, Missouri.

*Heuchera villosa* Michx.
(IPEN US-0-MO-2019-1915)
Collected 09/22/2019, Grayson County, Virginia.

*Heuchera villosa* Michx.
Collected 09/29/2019, Giles County, Virginia.

**SCROPHULARIACEAE**

*Scrophularia marilandica* L.
(IPEN US-0-MO-2013-1061)
Collected 10/12/2012, Pike County, Missouri.
Achillea millefolium

Solidago rigida

Antennaria parlinii

Hydrangea arborescens
Heuchera richardsonii

Melanthium virginicum

Veronica catenata

Silene regia
Spiranthes magnicamporum

Castilleja coccinea

Adiantum pedatum

Agastache scrophulariifolia