



MISSOURI
BOTANICAL
GARDEN

INDEX SEMINUM 2015

Missouri Botanical Garden
4344 Shaw Boulevard
Saint Louis, MO 63110
314-577-9407
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GENERAL INFORMATION

Missouri Botanical Garden is pleased to offer its fourth annual *Index Seminum*. All 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 membership allows for exchange of plant material with other IPEN members without bilateral agreements. Non-IPEN members must sign the AGREEMENT ON THE SUPPLY OF LIVING PLANT MATERIAL FOR NON-COMMERCIAL PURPOSES, found on the last page of this catalog.

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:

1. Country of origin (two positions, abbreviation according to ISO 3166-1-alpha-2 (<http://www.iso.org>), "XX" is used for seeds of plants of non-wild origin).
2. Restrictions of transfer (one position, "1" if there exist a restriction, "0" if none).
3. Garden code, which can be found on the [website of BGCI](#) under "Garden Search".
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

Seeds listed below were collected from within three eco-regions of Missouri and Illinois: the southeastern-most portion of the Mississippi River Hills, located north and east of St. Louis (accessions from St. Louis County, MO, and three Illinois Counties); the Mississippi Alluvial Hills located in the Missouri boot heel along the Mississippi River (Pemiscot County, MO); and the Ozark Highlands, located in south-central Missouri and northern Arkansas (all other accessions). In general, these three eco-regions are separated by the Missouri and Mississippi Rivers, which divide the rolling prairie lands of Illinois and northern Missouri which were formed by glaciers, from the Ozark Plateau that was formed by uplift and erosion.

Climate conditions in St. Louis (1981-2010)

Average annual precipitation	40.96 inches
Average annual snow	17.7 inches
Average temperature	57.1 °F
Mean July temperature	80.0 °F
Mean maximum July temperature	89.1 °F
Mean minimum July temperature	71.0 °F
Mean January temperature	31.8 °F
Mean maximum January temperature	39.9 °F
Mean minimum January temperature	23.7 °F

SEED SELECTIONS

Please list seed selections below. Requests are limited to 10 items and must be submitted by May 1st, 2015. Please submit requests to the Plant Records department via fax at (314) 577-9465 or e-mail to katherine.freeman@mobot.org.

AGREEMENT ON THE SUPPLY OF LIVING PLANT MATERIAL FOR NON-COMMERCIAL PURPOSES

Against the background of the provisions and decisions of the Convention on Biological Diversity of 1992 (CBD) and in particular those on access to genetic resources and benefit-sharing, the Missouri Botanical Garden is dedicated to promoting the conservation, sustainable use, and research of biological diversity. The Missouri Botanical Garden therefore expects its partners in acquiring, maintaining, and transferring plant material to always act in accordance with the CBD and the Convention on the International Trade in Endangered Species (CITES).

The responsibility for legal handling of the plant material passes on to the recipient upon receipt of the material. The requested plant material will be supplied to the recipient only on the following conditions:

1. Based on this agreement, seeds are supplied only for the common good, such as scientific research, education, conservation, environment protection and the development of botanic gardens.
2. On receiving the seed, the recipient is obliged to document its origin (country of origin, first receiving garden, donor of the seed, year of collection) as well as the acquisition and transfer conditions in a comprehensible manner.
3. The recipient may use the seed and any progeny for non-commercial purposes only.
4. Recipient will provide the Missouri Botanic Garden with a fair and equitable share of any benefits obtained by recipient arising out of any utilisation of the seed or its progeny or derivatives, including benefits such as research results and copies of publications. In addition, recipient shall acknowledge the Missouri Botanic Garden and, where determinable, the country of origin, in all research publications resulting from the use of the seed.
5. If at any point in the future the recipient wishes to use the genetic resources or its derivatives for purposes other than those allowed by the terms and conditions under which the seed was originally acquired (such as commercial use), the recipient must obtain the written permission of Missouri Botanic Garden and specify in writing the terms and conditions of use, including fair and equitable benefit sharing as set out in Missouri Botanic Gardens policy.
6. Recipient may not transfer the seed or derivatives thereof to any party without the prior informed consent in writing of Missouri Botanic Garden.

I accept the above conditions.

Signature

Date

Printed name and address

ACANTHACEAE

01. *Ruellia humilis* Nutt. (IPEN US-0-MO-2015-0195)

Collected , Franklin County, MO.

ALISMATACEAE

02. *Alisma subcordatum* Raf. (IPEN US-0-MO-2015-0196)

Collected , Pemiscot County, MO.

APIACEAE

03. *Eryngium yuccifolium* Michx. (IPEN US-0-MO-2015-0197)

Collected , Crawford County, MO.

APOCYNACEAE

04. *Amsonia illustris* Woodson (IPEN US-0-MO-2015-0198)

Collected , Franklin County, MO.

05. *Asclepias hirtella* (Pennell) Woodson (IPEN US-0-MO-2015-0199)

Collected , Franklin County, MO.

06. *Asclepias incarnata* L. (IPEN US-0-MO-2015-0200)

Collected , Madison County, IL.

07. *Asclepias tuberosa* L. (IPEN US-0-MO-2015-0201)

Collected , Franklin County, MO.

08. *Asclepias viridis* Walter (IPEN US-0-MO-2015-0202)

Collected , Franklin County, MO.

ASTERACEAE

09. *Liatris aspera* Michx. (IPEN US-0-MO-2015-0203)

Collected , Franklin County, MO.

10. *Liatris cylindracea* Michx. (IPEN US-0-MO-2015-0204)

Collected , Franklin County, MO.

11. *Liatris pycnostachya* Michx. (IPEN US-0-MO-2015-0205)

Collected , Crawford County, MO.

BORAGINACEAE

12. *Mertensia virginica* (L.) Pers. ex Link. (IPEN US-0-MO-2015-0206)

Collected , Franklin County, MO.

FABACEAE

13. *Amorpha canescens* Pursh. (IPEN US-0-MO-2015-0207)

Collected , Crawford County, MO.

GENTIANACEAE

14. *Gentiana puberulenta* J.S. Pringle (IPEN US-0-MO-2015-0208)

Collected , Macoupin County, IL.

LAMIACEAE

15. *Physostegia virginiana* (L.) Benth. (IPEN US-0-MO-2015-0209)

Collected , Calhoun County, IL.

OROBANCHACEAE

16. *Aureolaria grandiflora* (Benth.) Pennell. (IPEN US-0-MO-2015-0210)

Collected , Franklin County, MO.

17. *Aureolaria pedicularia* (L.) Raf. ex Pennell (IPEN US-0-MO-2015-0211)

Collected , Crawford County, MO.

PLANTAGINACEAE

18. *Penstemon cobaea* Nutt. (IPEN US-0-MO-2015-0212)

Collected , St. Louis Co. County, MO.

TYPHACEAE

19. *Sparganium americanum* Nutt. (IPEN US-0-MO-2015-0213)

Collected , Reynolds County, MO.