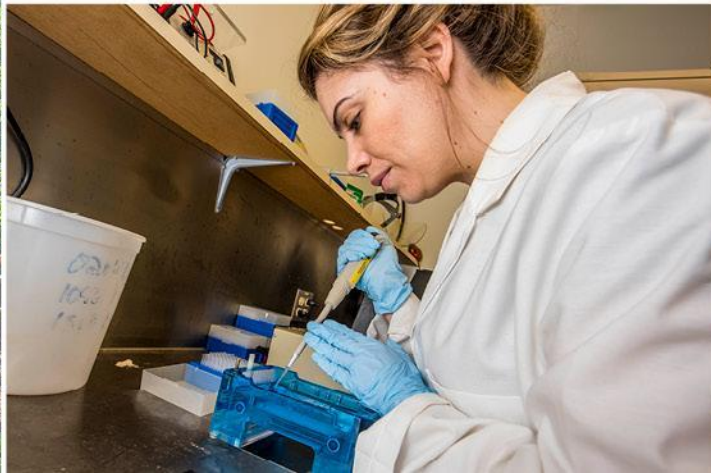




Public Gardens as Sentinels against Invasive Plants



Public Gardens as Sentinels against Invasive Plants

- Michelle Beloskur, Midwest Invasive Plant Network
- Kurt Dreisilker, The Morton Arboretum
- Theresa Culley, University of Cincinnati



THE
CHAMPION
of TREES



CHICAGO
BOTANIC
GARDEN



Royal
Botanical
Gardens
CANADA



MIPN.org
Midwest Invasive Plant Network



MISSOURI BOTANICAL GARDEN



**PLANT
RiGHT**



HOLDEN
arboretum
HOLDEN FORESTS & GARDENS



RICHARD
KING MELLON
FOUNDATION

North Central
IPM
Center



Public Gardens are Perfectly Positioned to Aid as Sentinels for Plant Invasions



- Curated living collections
- Natural areas
- Staff monitoring collection
- Accessions labeled
- Historical repository



PGSIP is a Creating a Network



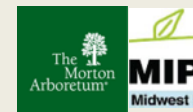
PUBLIC GARDENS AS SENTINELS AGAINST INVASIVE PLANTS

Using botanic garden and arboreta expertise to help prevent problematic plants from becoming invasive across North America



1) **Set of guidelines** to help gardens develop their own standardized lists

1) **Online platform** for gardens to share their information

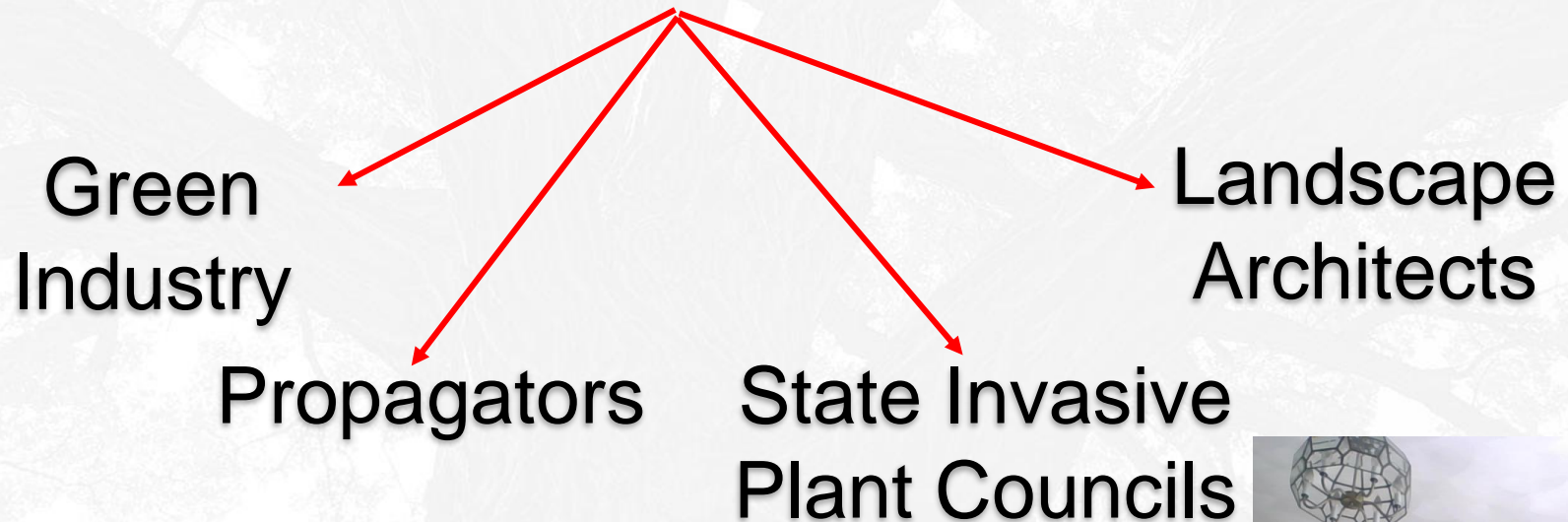


PGSIP Plant Rankings

- Observational rankings based on volume and distance of spread, context at the garden, and current/historic presence in the regional flora
 - Watchlist
 - Potentially Invasive
 - Invasive
- Ranking based on a predictive risk assessment
 - Assessed as Invasive



Public Gardens as Sentinels against Invasive Plants



New Data Dashboard

Data Dashboard

Data last updated September, 15th 2023

Filter by state or province:

Total number of public gardens participating:

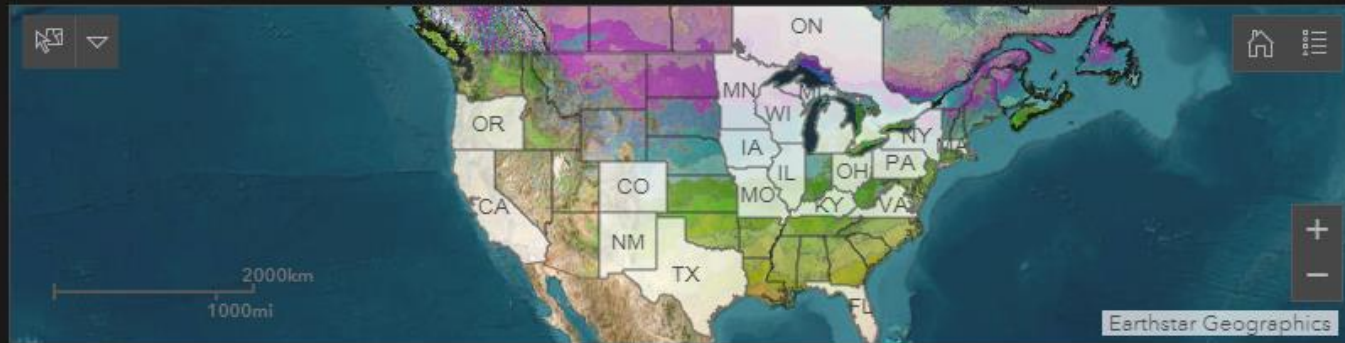
26

of Public Gardens

of states/provinces

Number of records:

834



Garden Ranking



- Invasive 16.4%
- Potentially Invasive 6.5%
- Watchlist 23.5%
- Assessed as Invasive 53.6%

Most Commonly Recorded Taxa

Drag the bar at the top of the chart to show less taxa on the chart



pgsip.mortonarb.org/Bol/pgsip/Data



Plant Alerts

- Summarize information about a non-native, ornamental plant that has been widely reported by participating gardens
- How have gardens ranked this plant
- What are the recommended actions
- Sign up to receive Alerts by subscribing to the PGSIP Newsletter (PGSIP Homepage)

PLANT ALERT

Amur corktree
Phellodendron amurense

Public Gardens as Sentinels
against Invasive Plants

ISSUED SEPTEMBER 2023

Amur corktree has been identified by the PGSIP working group as a plant of concern due to a growing number of botanic gardens and arboreta reporting on its ability to escape from cultivation.

Public gardens across North America are sharing their horticultural expertise to document cases of plants escaping from cultivation. The goal of this alert is to increase awareness of gardens' observations about Amur corktree's behavior within their properties and to recommend actions to reduce its capacity to spread. For the most current data on this taxon, visit the [PGSIP website](#).



Todd Jacobson/The Morton Arboretum

Data from PGSIP Gardens

Nine out of 25 gardens have used the PGSIP standardized ranking system to rank Amur corktree according to its ability to escape from cultivation. A regional trend is emerging with gardens reporting from the following states: Missouri, Illinois, Ohio, New York, Massachusetts, Michigan, and Ontario (Canada). More gardens are encouraged to participate to further understand this trend. Click on the map below to see updated records and locations.

How gardens ranked Amur corktree



Ranking	Number of Gardens	Percentage
Assessed as Invasive	3	33.3%
Invasive	2	22.2%
Potentially Invasive	2	22.2%
Watchlist	2	22.2%

[CLICK HERE](#) Assessed as Invasive
[CLICK HERE](#) Invasive
[CLICK HERE](#) Potentially Invasive
[CLICK HERE](#) Watchlist

Recommended Actions

PGSIP urges these next steps for propagators, nurseries, landscape architects, invasive plant councils, and public gardens.

- Remove fruit-bearing trees
- Eradicate spontaneous populations
- Develop and evaluate cultivars for reduced seed fertility
- Plant and sell only non-fruit bearing Amur corktrees
- Increase public garden reporting on Amur corktree

References and Links

- 🔗 PGSIP
- 🔗 Woody Invasives of the Great Lakes Collaborative
- 🔗 The Morton Arboretum
- 🔗 EDDMaps



Visit the PGSIP Website

pgsip.mortonarb.org/Bol/pgsip



**PUBLIC GARDENS AS
SENTINELS
AGAINST INVASIVE PLANTS**

Using botanic garden and arboreta expertise to help prevent problematic plants
invasive across North America

Public garden staff: join us for our next introductory webinar
Contact us anytime at PGSIPadmin@mortonarb.org

