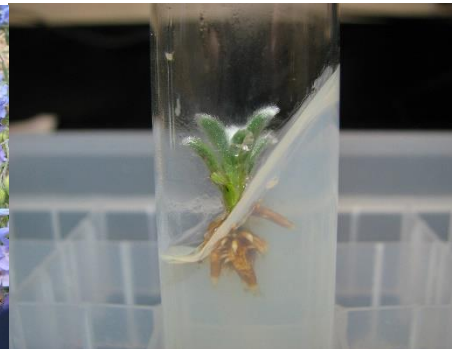


Tracking North American Ex situ Collections

Abby Meyer

Botanic Gardens Conservation International, U.S.

abby.meyer@bgci.org

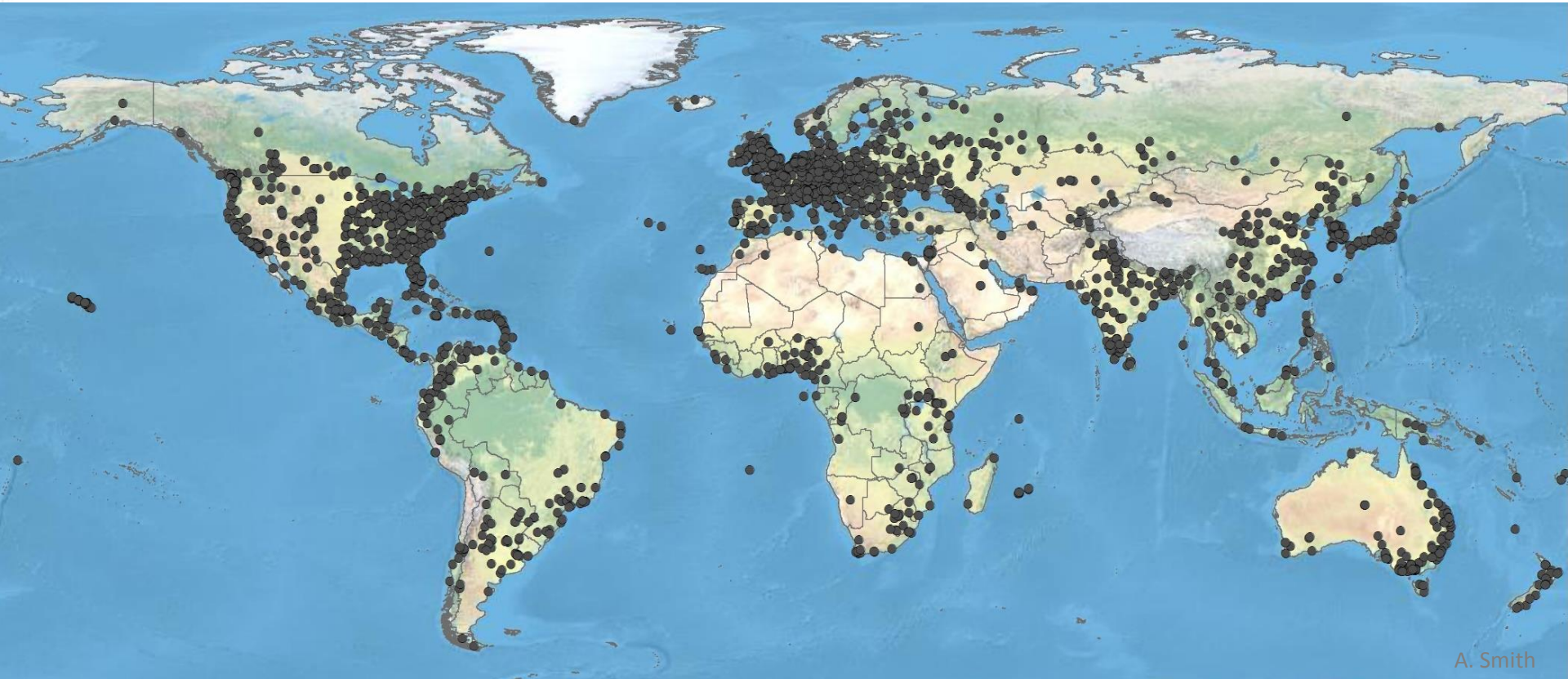


A global network



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A. Smith

The world's greatest force for plant conservation

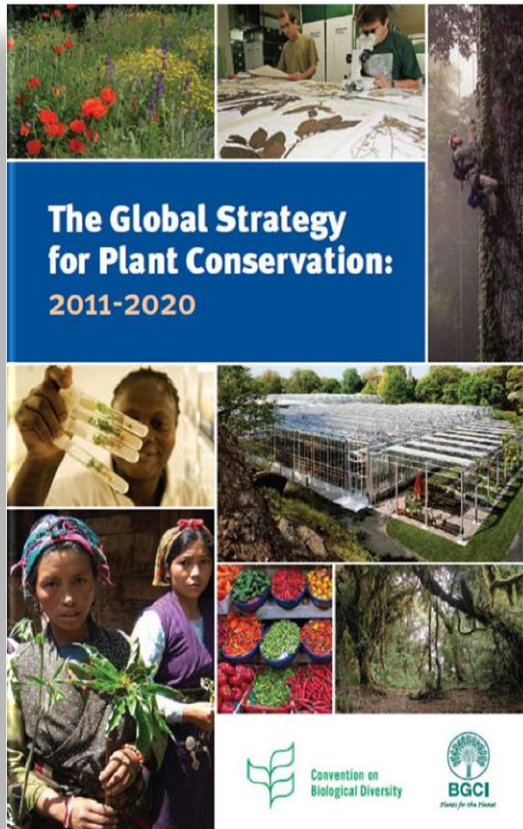
Plant Conservation Strategies



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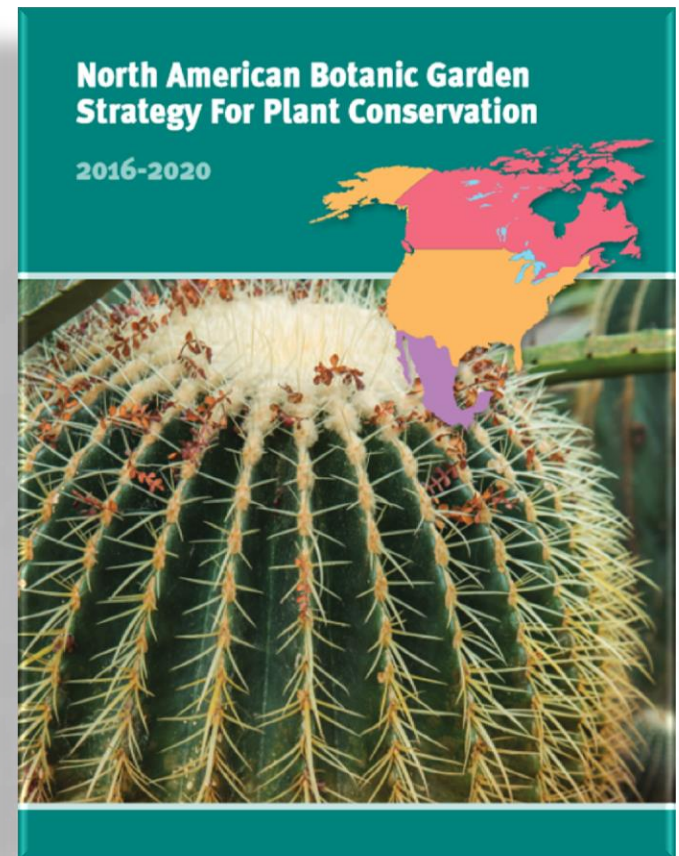
Target 8

At least 75 per cent of threatened plant species in ex situ collections, preferably in the country of origin, and at least 20 per cent available for recovery and restoration programmes.



Sub-target B2

Botanic gardens will expand ex situ conservation efforts and partnerships.





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Botanic gardens collectively protect over 40% of known threatened species



GardenSearch



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Welcome to GardenSearch!



GARDEN
SEARCH

Providing gardens with a visible web presence, even when they don't have a website, GardenSearch is the only global source for information on botanic gardens. The database includes information on over 3,423 botanical institutions worldwide.

GardenSearch allows you to:

- Locate botanic gardens in your neighbourhood and around the world
- Identify botanic gardens with specific resources and expertise (keyword search)
- Identify botanic gardens with specific features, facilities and programmes ([Advanced Search](#))

Any botanic garden (or other institution with a documented plant collection) not already included in GardenSearch [can create and manage their own page](#).

Geographically:

Keyword:

[BGCI Members only](#) [International Agenda Registrants](#) [ArbNet Accredited](#)

[Search Gardens](#)

[Advanced Search](#)

Advanced Garden Search

Use this Advanced Search to identify expertise, facilities, and resources at botanical institutions around the world. Just select one or more search criteria from the list below, and click on **Search Gardens** to identify all gardens that meet your selected criteria.

Garden details

Country:

Institution type:

Keyword:

[BGCI Members only](#) [International Agenda Registrants](#) [ArbNet Accredited](#)

[Search Gardens](#)

[+ Expand ALL fields](#)

- [+ Public features and facilities](#)
- [+ Research or conservation features and facilities](#)
- [+ Plant Collections](#)
- [+ Conservation Programmes](#)
- [+ Conservation/Ecology Research Programmes](#)
- [+ Plant Biology and Related Research Programmes](#)
- [+ Education Programmes](#)

[Search Gardens](#)



BGCI

Plants for the Planet

New England Wild Flower Society - Garden in the Woods

United States of America - Massachusetts - Framingham



Garden Information

Restoration Projects

Institution Code: NEWF

International Agenda Registration: Yes

BGCI Member: Yes



About the New England Wild Flower Society - Garden in the Woods

New England Wild Flower Society's Garden in the Woods is New England's premier wildflower showcase and is accredited by the American Association of Museums. Begun in 1931, the Garden has grown through the years and now encompasses a collection of more than 1500 native species and cultivars of which 150 are rare and endangered. Located 20 miles west of Boston, from April and May's spring ephemerals to summer's blooming meadow through October's fiery foliage, the Garden displays an ever-changing tapestry of flowers and foliage.

Founded in 1900, New England Wild Flower Society is the oldest plant conservation organization in the United States. Through our leadership, the Society protects native plants and their habitats with the goal of ensuring that they will exist in vigorous populations within healthy, evolving ecosystems and of engaging a broad range of people to actively promote and protect them in the wild and in their gardens.

Main Address:

New England Wild Flower Society - Garden in the Woods
180 Hemenway Road
Framingham
Massachusetts 01701-2699 United States of America

Telephone: (508) 877-7630

Fax: (508) 877-3658

URL: www.newenglandwild.org

Primary Email: information@newenglandwild.org

About the Garden

Institution Type: Botanic Garden

Status

Status: Private: Yes

Status: Educational: Yes

Date founded: 1931

Physical Data

Natural Vegetation Area: Yes

Natural vegetation area: Size: 10 Hectares

Landscaped Area: Yes

Landscaped Area: Size: 8 Hectares

Total Area: 18 Hectares

Latitude: 42.3409959

Longitude: -71.4275150

Altitude: 0.00 Metres

Features and Facilities

Herbarium: Yes

Arboretum: No

Micropropagation/ Tissue Culture Facilities: No

Seed Bank: Yes

Published Plant Catalogue: No

Computer Plant Record System: Yes

Open to public: Yes

Friends society: Yes

Retail Outlet: Shop: Yes

Retail Outlet: Plant Sales: Yes

Disabled access: Yes

Number of Visitors: 20000

Number of Volunteers: 230

Plant Collections

Accession Number: 4807

Cultivation Taxa Num: 1569

Conservation Programmes

Conservation Programme: Yes

Medicinal Plant Programme: Yes

Ex Situ Conservation Programme: Yes

Reintroduction Programme: Yes

Research Programmes

Education Programmes

PlantSearch



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Plants for the Planet

Welcome to PlantSearch!

English (EN) | [En Español \(ES\)](#) | [日本語で \(JA\)](#)



The only global database of living plant, seed and tissue collections:

- Search 1,321,861 collection records, representing 533,991 taxa, at 1,087 contributing institutions
- Locate threatened, rare, medicinal and other plant species in living collections

- Connect with living collections to aid your conservation, education and research efforts

Enter search criteria below (all fields optional)

Scientific name: Exclude cultivar names
 Genus Species Infraspecific Epithet

Conservation Status:

Additional Status:

IUCN Red List Crop Wild Relative

IUCN Red List 1997

Medicinal plant species

CITES listed species

Threatened Global Trees Campaign species

Which IUCN list should I choose?

Search Plants

#	Plant Name	Name Status	IUCN Red List	IUCN Red List 1997	CITES Appendix	Invasive Species Compendium fact sheet	CWR	No. of ex situ sites worldwide	Contact ex situ sites
1	Abies alba	-	Least Concern	-	-	Look Up	-	128	Send Request
2	Abies amabilis	-	Least Concern	-	-	Look Up	-	49	Send Request
3	Abies balsamea	Accepted	Least Concern	-	-	Look Up	-	115	Send Request
4	Abies balsamea var. balsamea	Synonym	Least Concern	-	-	Look Up	-	6	Send Request
5	Abies balsamea var. phanerolepis	-	-	-	-	-	-	1	Send Request
6	Abies beshanzuensis	Accepted	Critically Endangered	-	-	-	-	1	Send Request
7	Abies bracteata	Accepted	Near Threatened	Rare	-	Look Up	-	27	Send Request
8	Abies cephalonica	Accepted	Least Concern	-	-	Look Up	-	103	Send Request
9	Abies h. cephalonica	-	Lower Risk: Near Threatened	-	-	-	-	0	Send Request
10	Abies chensiensis	Accepted	Least Concern	-	-	-	-	31	Send Request
11	Abies chensiensis ssp. chensiensis	Synonym	Least Concern	-	-	-	-	0	Send Request
12	Abies chensiensis subsp. salouenensis	Accepted	-	-	-	-	-	9	Send Request
13	Abies chensiensis ssp. yulongxueshanensis	Accepted	Least Concern	-	-	-	-	0	Send Request

PlantSearch requests



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Request information on plant species

INTENDED USE: This service is designed to facilitate communication between plant collection holders, researchers, educators, and other plant conservation professionals. Its primary use is to request or share information or plant material for research, education or conservation purposes.

To send a request about the plant you selected to all gardens that report maintaining it in their collections, please complete the form below as thoroughly as possible.

Please note that BGCI is not responsible for the accuracy of the information contained here, nor is it directly involved with or responsible for the response of individual gardens to your inquiry.

Information requested for plant: **Abies alba**

Your Name:

Email:

Job Title:

Institution:

My institution is a member of BGCI

Please indicate the purpose for your request (check all that apply):

- Plant tissue for DNA analysis or other research purpose
- Seeds or other living material for conservation, education, or research purposes
- Propagation or cultivation information for conservation, education, or research purposes
- Other (please provide additional details in the Comments box below)

Comments/Additional Information:



M. Wenzel

Members Area



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Members Area

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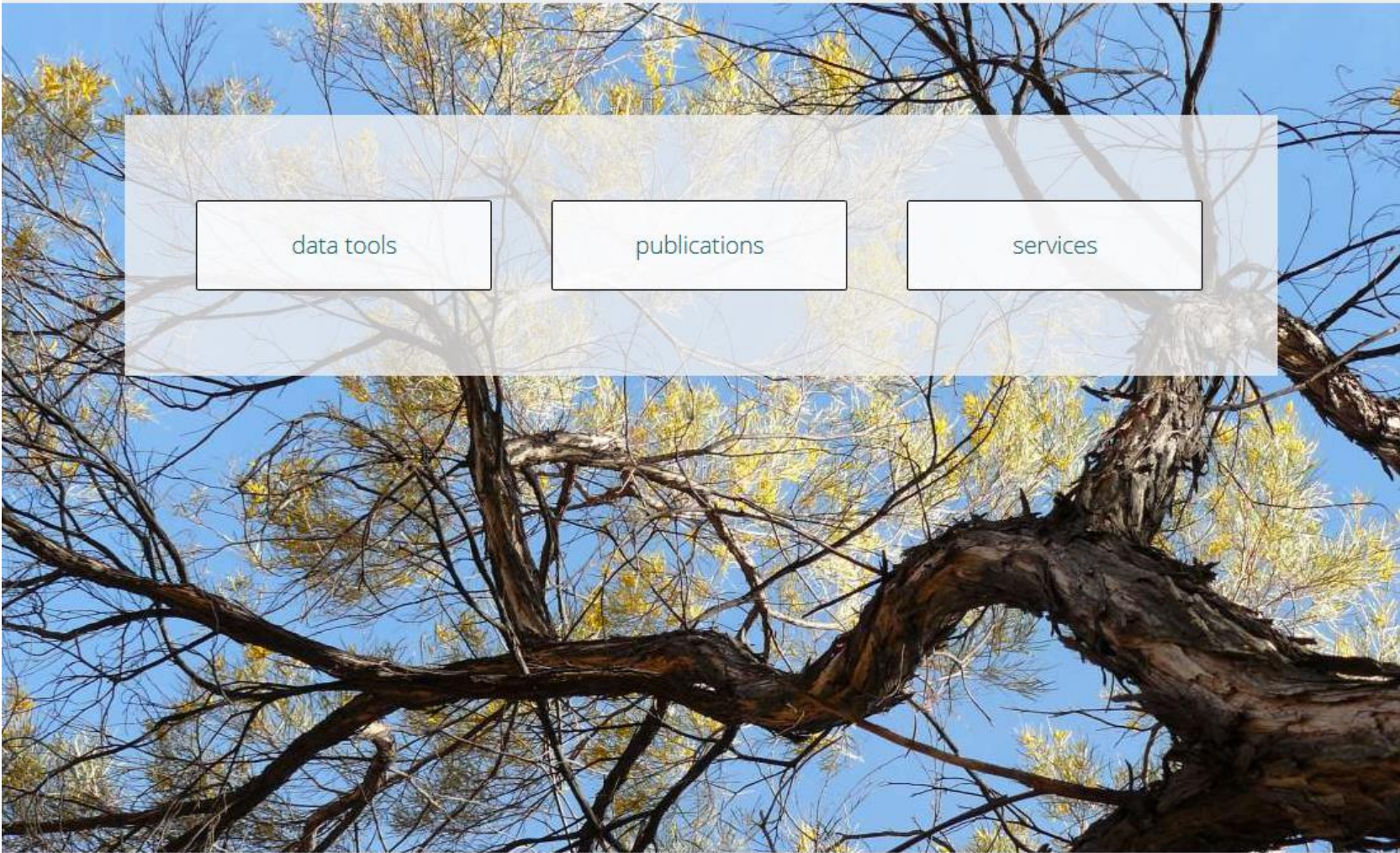
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PlantSearch *Advanced Search*



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SEARCH

UPLOAD QUERY

1 results shown for **genus:** Quercus; **species:** tomentella

CLEAR

download as CSV

Genus

Species

Infraspecific epithet

Gardens

Quercus

tomentella

16 gardens

taxon: *Quercus tomentella*

This plant is found in 16 gardens.

7/16 gardens have shared their data to BGCI members:

- UC Davis Arboretum
- Royal Botanic Gardens, Victoria - Melbourne Gardens
- Rancho Santa Ana Botanic Garden
- University of California Botanical Garden at Berkeley
- The Sir Harold Hillier Gardens
- National Botanic Garden of Wales
- Grizedale Arboretum

ThreatSearch



BGCI > ThreatSearch

Welcome to ThreatSearch!



The most comprehensive database of conservation assessments of plants.

- Search over 242,000 conservation assessments, representing over 150,000 taxa.
- Find out if a plant has a global or regional conservation assessment
- Find out if a plant is considered threatened

Enter search criteria below (at least one of genus, species, infraspecific epithet required)

Scientific name:
Family Genus Species Infraspecific Epithet

Scope:

Scope of assessment -- Please Select -- ▾

From Year (earliest record from 1983):

Show Threatened taxa only

Search Plants

GlobalTreeSearch



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60,065 tree
species

bgci.org/global_tree_search.php

A comprehensive list of the world's tree species and their country level distributions

BGCI > GlobalTreeSearch

Welcome to GlobalTreeSearch!



The most comprehensive database of tree species.

- Search over 60,000 tree species names and their country distributions.
- Find out the geographical distribution of a tree species.
- Discover all tree species found in a country

GlobalTreeSearch is not a static database and will evolve as new information comes to light. If you spot a mistake (in taxonomy, distribution of lifeform) or have data which you think could improve the database, please get in touch with globaltreesearch@bgci.org.

[More information about GlobalTreeSearch and how the data were compiled.](#)

[More information on data sources used and acknowledgements.](#)

Data retrieved through GlobalTreeSearch is subject to the [BGCI data agreement](#).

To search the database, enter search criteria below (at least one of genus, species, country required)

Scientific name:

Genus Species Country

Gap Analysis

Identify the species with the greatest need of conservation action and the botanic gardens that can be mobilized to protect them



North American Threatened Taxa

7,662 Globally Threatened Species

- GX, GH, G1-G3 (NatureServe)
- NOM-059 (Mexico Red List)
- EW, CR, EN, VU (IUCN)

Top 10 Genera	Threatened taxa per genus
<i>Astragalus</i>	347
<i>Eriogonum</i>	267
<i>Penstemon</i>	196
<i>Lupinus</i>	154
<i>Erigeron</i>	121
<i>Phacelia</i>	110
<i>Draba</i>	95
<i>Cyanea</i>	94
<i>Carex</i>	89
<i>Rubus</i>	83

Based on data provided by NatureServe and ThreatSearch, October 2017

Contributing Institutions



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Diplacus rupicola

Country	Seed banks	Plant collections	Total Institutions
Canada	2	23	25
Mexico	1	29	30
United States	22	223	245
Non-North America	13	393	406
Total	38	668	706

North American threatened plant ex situ representation



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- 3,598 of 7,662 (47%) species reported ex situ

	Threatened Species Reported Ex situ	Seed Banks	Plant Collections	Both
North America	3399	917	1406	1076
Canada	378	8	362	8
Mexico	476	17	437	22
United States	3284	923	1317	1044
Non-North America	1616	191	1212	213
Total	3598	883	1517	1198



Top 15 Institutions

North American Threatened Species	Institution	Country
563	University of California Botanical Garden at Berkeley	United States
491	Royal Botanic Gardens, Kew	United Kingdom
402	Millennium Seed Bank	United Kingdom
387	Rancho Santa Ana Botanic Garden - Seed Bank	United States
305	Harold L. Lyon Arboretum - Seed Conservation Lab	United States
298	Denver Botanic Gardens	United States
288	New York Botanical Garden	United States
283	National Tropical Botanical Garden	United States
281	Botanischer Garten der Ruhr-Universität Bochum	Germany
276	Botanic Garden Meise	Belgium
276	Real Jardín Botánico Juan Carlos I	Spain
264	Santa Barbara Botanic Garden	United States
250	Atlanta Botanical Garden	United States
242	Huntington Botanical Gardens	United States
236	Desert Botanical Garden	United States

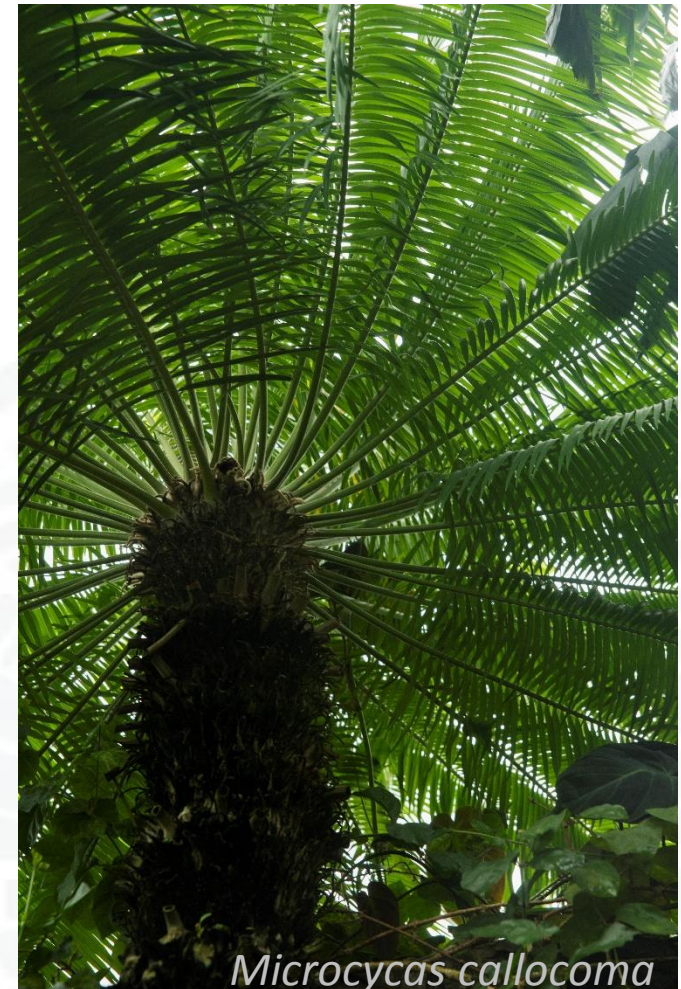
Top 10 Genera



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Genus	Threatened Species Reported Ex situ
<i>Mammillaria</i>	110
<i>Penstemon</i>	78
<i>Astragalus</i>	74
<i>Eriogonum</i>	45
<i>Quercus</i>	42
<i>Cyanea</i>	41
<i>Arctostaphylos</i>	39
<i>Chamaedorea</i>	37
<i>Opuntia</i>	33
<i>Ceanothus</i>	32



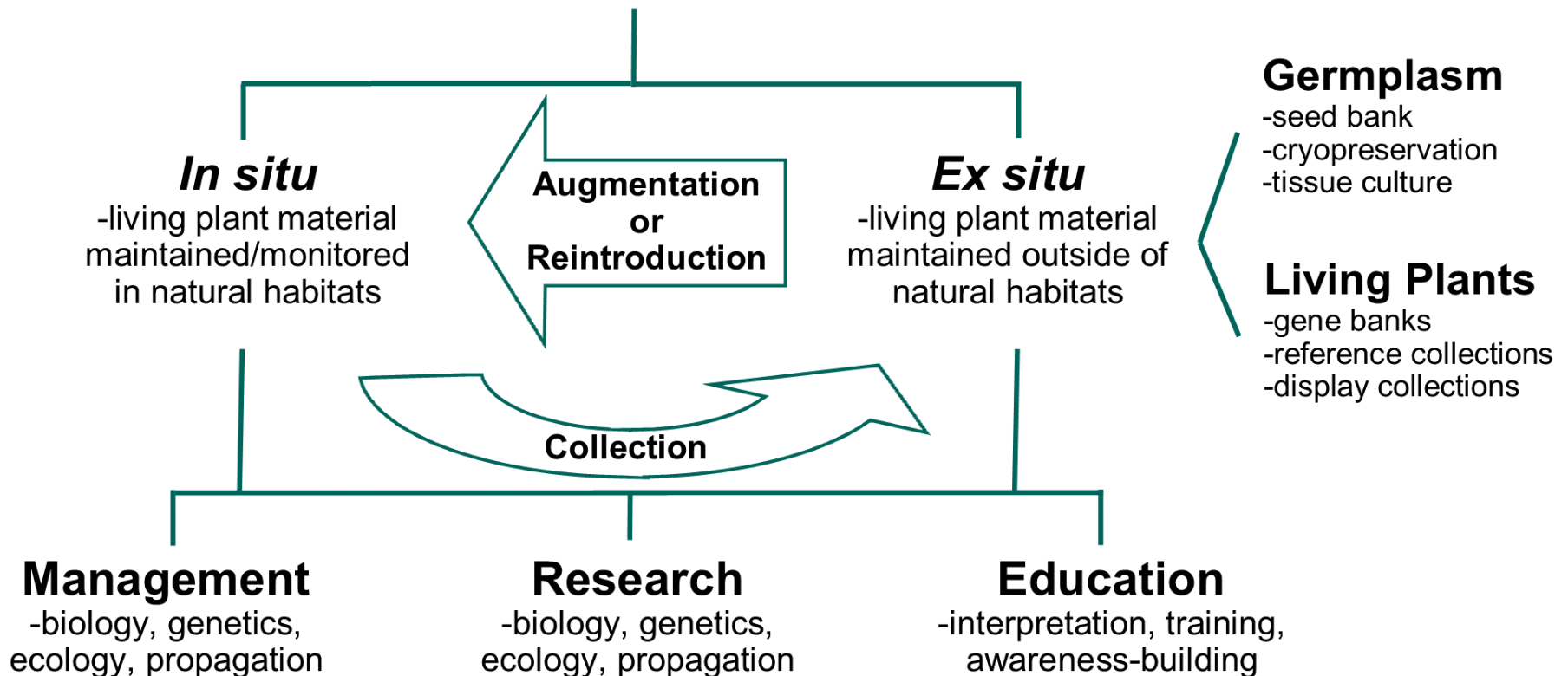
Microcycas callocoma

Closing the Loop for Conservation



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Integrated Plant Conservation





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Parameters of *Ex situ* Collections

Conservation value/application determined by:

1. The type of plant material held
2. The protocols used to acquire plant material
3. The long-term maintenance of viable and genetically diverse plant material



Relative *Ex situ* Costs and Benefits

Ex situ Type	Genetic Diversity	Longevity	Costs	Reintro and Research Value	Education Value
<i>Seed Bank</i>	High	High	Low	High	Low
<i>Cryopreservation</i>	High	High	Medium	High	Low
<i>Tissue Culture</i>	High	Medium	Medium	High	Low
<i>Field/ Common Garden</i>	Medium	Low	High	Medium	Medium
<i>Reference Living Collection</i>	Low	Low	High	Low	High
<i>Display Living Collection</i>	Low	Low	High	Low	High

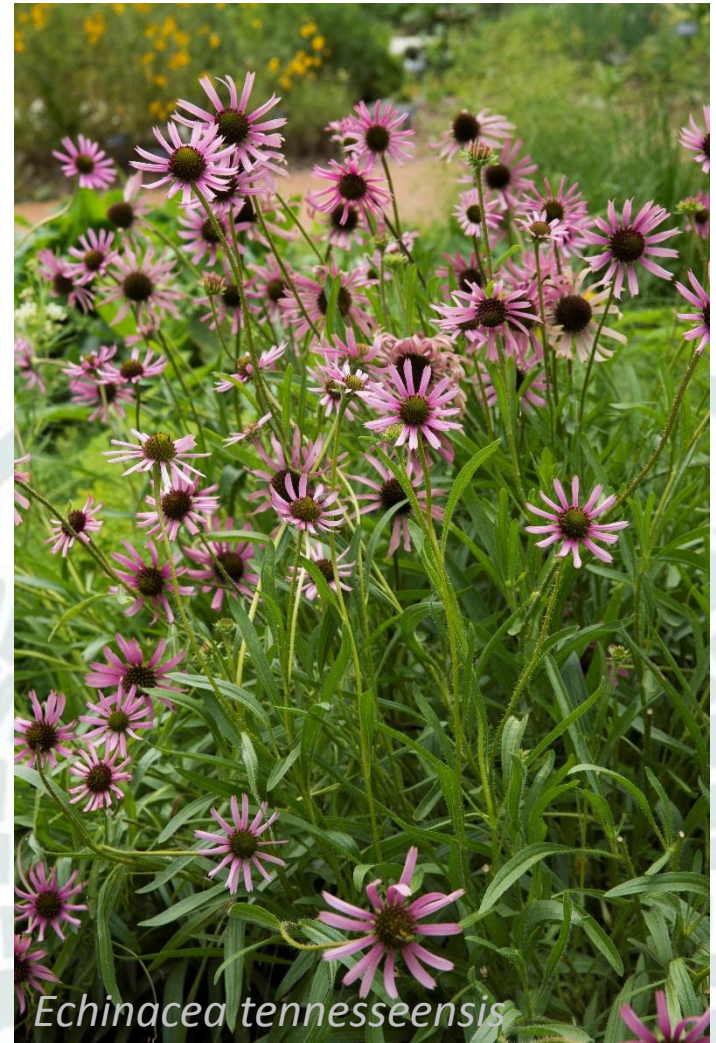
Ex situ Collection Priorities



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1. Data sharing
2. Under-represented species
3. Most-threatened species
4. Conservation assessments
5. Genetic diversity



Echinacea tennesseensis

Ex situ Collections Data sharing

PlantSearch Upload Results

- Garden in the Woods, August 2017

A	B	C	D	E	F	
Genus	Species	Infraspecific Rank	Infraspecific Epithet	No. Locations	IUCN Red List	NatureSe
Ammophila	champlainensis			1		G2G3Q
Anemone	oregana	var.	oregana	1		G4T4
ANEMONE	transylvanica			1		
ANTENNARIA	virginica	var.	argillicola	1		
BAPTISIA	tinctoria	var.	crebra	1		
BRACHYTHECIUM	sp.			1		
Carex	castanea			1		G5
Ceratophyllum	echinatum			1		G4?
CLINTONIA	borealis	F	albicarpa	1		
CORYPHANTHA	vivipara	var.	kaibabensis	1		
Dodecatheon	frenchii			1		G3

North American Species in only one collection

	Threatened Species Reported Ex situ	Seed Banks	Plant Collections
North America	963	525	438
Canada	9	1	8
Mexico	41	2	39
United States	913	522	391
Non-North America	136	18	118
Total	1100	544	556



Most-threatened taxa

99 North American species on the brink of extinction (EX/EW)

- 10 reported ex situ
- 5 reported in only one collection

TaxonName	Threat Status	Number of ex situ collections
<i>Zamia monticola</i>	CR (IUCN)	1
<i>Hibiscadelphus woodii</i>	EX (IUCN)	1
<i>Argyroxiphium virescens</i>	EX (IUCN)	1
<i>Cyanea superba</i>	EW (IUCN)	1
<i>Delissea subcordata</i>	EX (IUCN)	1

Assess Conservation Value

USBG 2015 Conservation Collections Assessment

CONSERVATION COLLECTIONS

To orient readers to this conservation collections assessment, we offer a brief overview of plant collection components (Figure 1). Living botanical collections are typically composed of living plant material (plants, seeds, etc.), accessions, and taxa (species, varieties, cultivars, hybrids, etc.): individual plant specimens finer scale, taxa at a coarser scale, and accessions which connect and describe plants and taxa within collection. It is helpful to consider these levels of a collection when assessing potential value and applic



Figure 1. Example of the taxa-accessions-plants hierarchy within living plant collections. Example based on USBG plant record

This assessment is also based upon global conservation status of four main data sources (Table 1). "Threatened" taxa are flagged if they were assigned any rank considered to be of conservation concern in Table 1). Throughout this assessment, these threatened taxa are used to identify associated living plants and accessions for closer analysis. "Critically threatened" taxa are also highlighted as potential priorities for conservation activities, defined by the authors as taxa assigned CITES Appendix I, 1997 Red List EX, EX/E, or E status; 2015 IUCN Red List EX or CR status; or NatureServe G-rank GX, GH, or status.

IUCN Red List (2015)	IUCN Red List (1997)	NatureServe G-rank	CITES Appendix	
EX (Extinct)	EX (Extinct)	GX (Extinct)	I	
EW (Extinct in the Wild)	EX/E (Extinct/Endangered)	GH (Possibly Extinct)		
CR (Critically Threatened)	E/N (Endangered/Vulnerable)	G1 (Critically Impaired)		
EN (Endangered)	V (Vulnerable)	G2 (Impaired)		
VU (Vulnerable)	R (Rare)	G3 (Vulnerable)		
NT (Near Threatened)	O (Out of Danger)	G4 (Apparently Secure)		II, III
LC (Least Concern)	NT (Not Threatened)	G5 (Secure)		
DD (Data Deficient)	I (Indeterminate)	GU (Unrankable)		
NE (Not Evaluated)	K (Insufficiently Known)	GNR (Unranked)		
	Q (No Information)	GNA (Not Applicable)		

Table 1. The conservation status lists and threat ranks used to identify "threatened" taxa for this assessment (blue text indicates "threatened" status). Threat ranks based on conservation data maintained in BGCI's PlantSearch database, provided by the 2015 IUCN Red List of Threatened Species (www.iucnredlist.org), the 1997 IUCN Red List of Threatened Plants (<http://portal.iucn.org/library/node/75377>), the 2015 NatureServe Conservation Status G-ranks (<http://explorer.natureserve.org/ranking.htm>) and the CITES Appendices (www.cites.org).

APPENDICES

USBG 2015 Conservation Collections Assessment

Appendix 1. Globally threatened taxa (484) in the United States Botanic Garden's living collection with associated data from PlantSearch and the United States Botanic Garden, with global threat status. Critical threat statuses and other notable characteristics in blue.

Threat ranks based on CITES Appendices, the 1997 IUCN Red List of Threatened Plants, the 2015 IUCN Red List of Threatened Plants, the 2015 NatureServe Conservation Status G-ranks provided by BGCI's PlantSearch database. Locations provided by BGCI's PlantSearch database as of September 2015. Taxonomic and plant records data provided by USBG as of July 2015.

Family	# PlantSearch Locations	CITES Appendix	1997 IUCN Red List	2015 IUCN Red List	NatureServe G-rank	# Living Accessions	# Living Plants
OLEACEAE	116		Endangered			2	2
ANALYCEAE	18		Endangered	Critically Endangered	G1	1	1
AMARANTHACEAE	3		Vulnerable	Vulnerable	G2	1	1
ARECACEAE	15		Rare			3	3
CRASSULACEAE	113		Rare			1	1
CRASSULACEAE	57		Vulnerable			2	2
ARAUCAIACEAE	23			Vulnerable		1	1
ASPARAGACEAE	76		Vulnerable			1	1
ASPARAGACEAE	67		Rare			1	1
ASPARAGACEAE	31				G3	1	1
ASPARAGACEAE	23		Vulnerable		G3	1	1
Aspidophytaceae	142	II	Endangered			4	4
ARECACEAE	30		Vulnerable			4	4
DIDIEREACEAE	40	II	Rare			3	3
ARACEAE	11			Critically Endangered		1	1
XANTHORRHOACEAE	29	I	Endangered			1	1
XANTHORRHOACEAE	14	II	Vulnerable			1	1
XANTHORRHOACEAE	69	I	Rare			1	1
XANTHORRHOACEAE	60	I	Endangered			1	1
XANTHORRHOACEAE	38	II		Critically Endangered		1	1
XANTHORRHOACEAE	22	II	Vulnerable			2	2
XANTHORRHOACEAE	26	II	Rare			1	1
XANTHORRHOACEAE	35	I	Endangered			1	1
XANTHORRHOACEAE	56	I	Endangered			2	2
XANTHORRHOACEAE	65	I	Rare			2	2
XANTHORRHOACEAE	25	II	Vulnerable			1	1
XANTHORRHOACEAE	46	I	Endangered			1	1
AIZOACEAE	7		Rare			1	1
ARACEAE	66		Vulnerable			12	12
BIGNONIACEAE	7		Endangered			1	1
APOCYNACEAE	65		Rare		G3	2	2
APOCYNACEAE	8		Rare		G3	1	1
APOCYNACEAE	11		Vulnerable			1	1
ANACAMPSEROTACEAE	1	II	Rare			2	2
ORCHIDACEAE	52	II		Vulnerable		2	2
ARACEAE	16		Vulnerable			2	2
ARACEAE	5			Critically Endangered		1	1
ARAUCAIACEAE	125		Vulnerable	Vulnerable		9	9
PAPAVERACEAE	4				G2	2	2
CACTACEAE	40	I	Endangered	Endangered		1	1
CACTACEAE	44	I				1	1
ARACEAE	70		Rare			1	1
ASTERACEAE	6				G3	1	1
ASTERACEAE	6		Vulnerable		G2	4	4
ARISTOLochiaceae	23			Vulnerable		1	1



Provenance is an important factor for assessing the direct conservation potential of a living collection. Wild origin accessions hold greater conservation value than accessions of garden or unknown origin for a variety of reasons, and the more specific the wild origin data is, the better. For example, population- or geographic-based relationships can be investigated with documented wild origin plant material. Overall, 17% (1,176 accessions) of USBG's living collection are composed of wild (or indirect wild) origin accessions (Table 2). This falls between collections averages of 12% (Aplin, 2014) and 25% (Licht, 2010) wild origin accessions per collection. Of USBG's collections of conservation concern, only 223 accessions are of wild origin (Table 8; Figure 2). This represents only 3% of all USBG living accessions and 21% of all USBG accessions of threatened taxa.

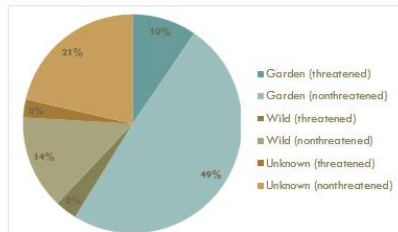


Figure 2. Provenances of living accessions of threatened and nonthreatened botanical taxa in USBG's living collection as of July 2015. "Wild" includes wild and indirect wild provenances. "Unknown" includes uncertain and unavailable provenances.

Ex situ Genetic Diversity



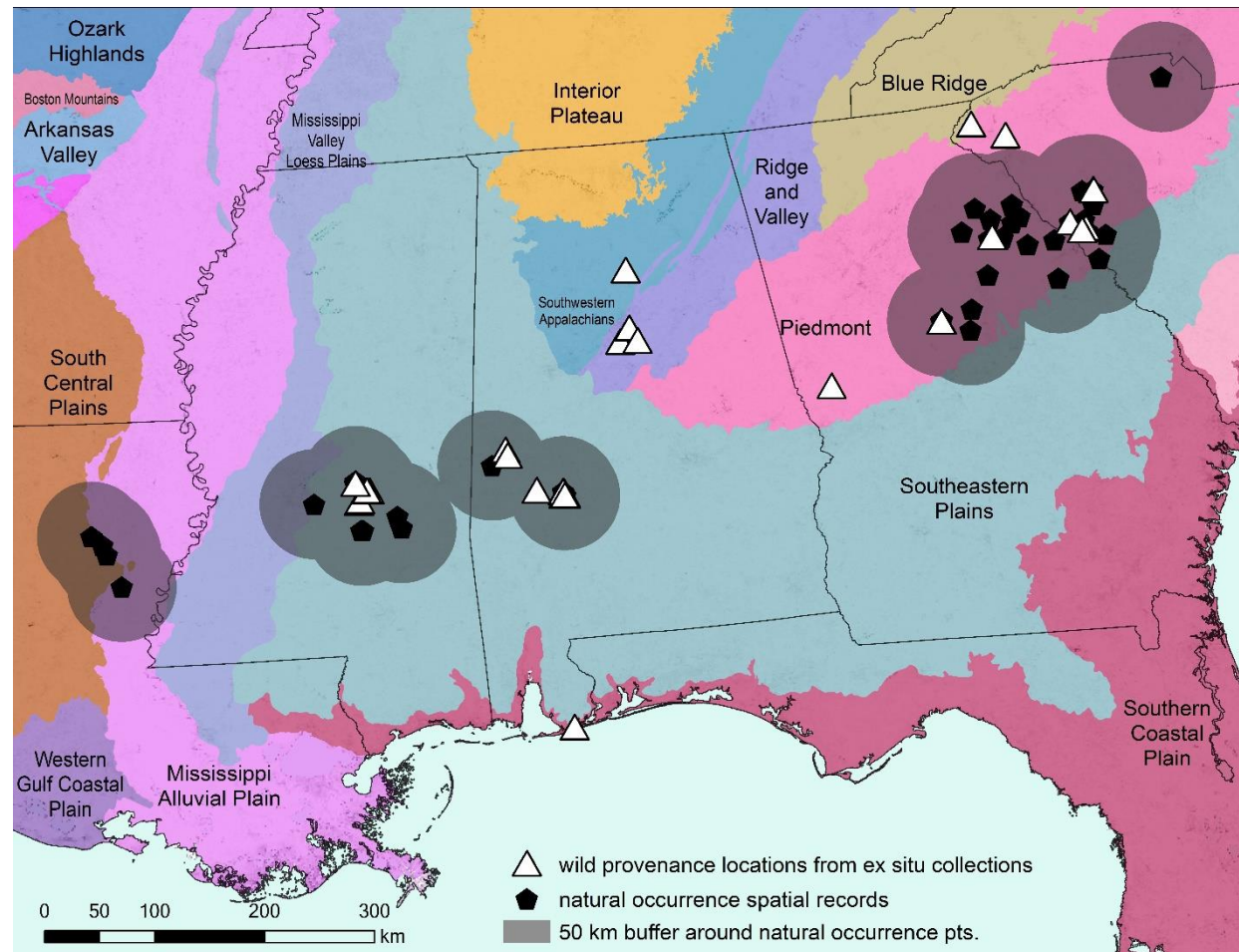
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U.S. Oak Conservation Gap Analysis



The Morton Arboretum



CARE FOR THE RARE



www.bgci.org/usa/CareForTheRare

Public Gardens Care for the Rare

From Alaska to Zambia, more than 2,500 public gardens around the globe care for rare plants. **HERE'S HOW**

A map of the public gardens world wide

Did you know?
More than 500 rare plants are grown here at the United States Botanic Garden.

CONSERVATION: protecting and caring for rare plants in their habitats

EDUCATION: Displaying rare plants and sharing their stories

HORTICULTURE: learning to cultivate and display thousands of rare plants

SEED BANKING: leading seed collection efforts to fight extinction

RESEARCH: understanding rare plants to better conserve them

CARE FOR THE RARE

BGCI
United States Botanic Garden

Ashe magnolia (*Magnolia ashei*)

About me: I'm the rarest magnolia in North America, and make my only home in the hardwood forests of the Florida panhandle.

Why I'm rare: I've had trouble adjusting to logging, invasive plant species, trampling and even trash dumping that is happening in my habitat.

My story: Many people are helping to protect the habitat where I grow, and you can find me in more than 50 botanic gardens around the world. Some gardens are studying how to grow me and bank my seeds as a long-term insurance policy against extinction.

How you can help: Volunteer to help protect and conserve natural areas where you live.



PHOTO STEFAN BLOOMWORTH, DUKE GARDENS

- Free interpretation resources
- Create new signs using templates
- Use any of the 100+ species signs in the Sign Library



UNITED STATES
BOTANIC GARDEN



BGCI
Plants for the Planet

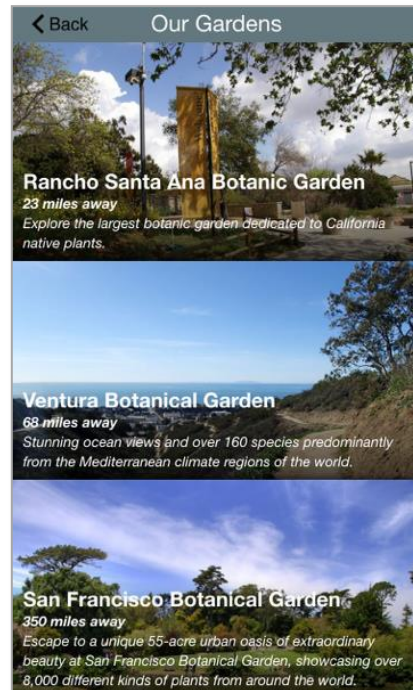
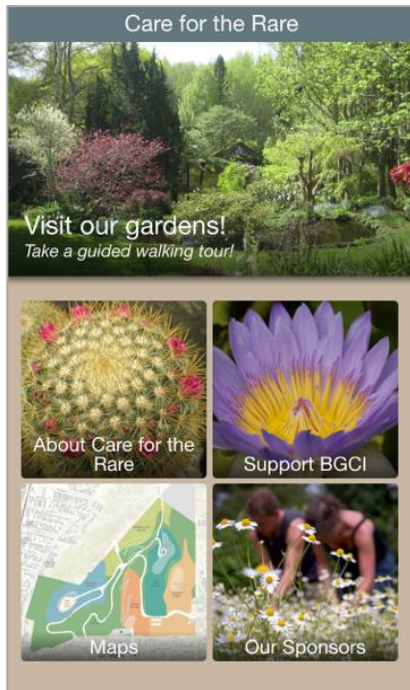
Mobile App



BGCI

Plants for the Planet

CARE FOR THE RARE





BGCI

Plants for the Planet

Connecting People • Sharing Knowledge • Saving Plants

Our Mission is to mobilise botanic gardens and engage partners in securing plant diversity for the well-being of people and the planet

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 @bgci

Plant Conservation and Biodiversity Benchmarking



American
Public Gardens
Association



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Welcome: Abby Meyer | Garden: Public Gardens/Botanical Gardens

Home Our Garden ▾ Compare Gardens ▾ Reports & Charts

Year: 2017 ▾

Our Garden

Compare Gardens

Reports & Charts

Click on the sections in each area below to enter garden data.



Garden Overview

▲ Profile



Leadership & Governance

- ✓ Governance
- ✓ Financial
- ⊗ Staffing



Ex situ Conservation Capacity

- ✓ Policy and Practices
- ⊗ Genetic Diversity



In situ Conservation Capacity

- ✓ Policy and Practices



Research & Conservation Expertise

- ⊗ Research
- ⊗ Conservation Expertise



Education & Communication

- ✓ School-Based Participation
- ⊗ Non-School Participation
- ⊗ Educational Content
- ⊗ Communications