





Brandi Eide



SPRINGS PRESERVE[®] www.springspreserve.org

Building Plant Collections – Why?

- Directive
- Mission
- Goals
- Bored, have too much money, time, staff



- What is your goal?
 - Display
 - Research
 - Conservation
 - +Strengths
 - Education
 - Interpretation
 - Restoration
 - Geography
 - Family



Deuterocohnia longipetala



- Research, Conservation, Restoration
 - Higher level of data needed
 - Genetic variation
 - Data quality/quantity useful for research
 - Tracking**
 - Genetics
 - Lineage, propagation

Mammillaria geminispina



- Where are your current strengths/weaknesses?
 - Robust family/genus/group of plants
 - Where can you expand? Plants that make sense?
 - Unique environment? Alpine, desert...





Limitations

- Funding source plants, shipping, can you generate income from collections? Restrictions
- Staffing registrar, plant collections managers, curators, propagator, for planting, tracking, maintenance, volunteers
- Space storage, indoor/outdoor, area to develop or supplement existing plantings



Building Plant Collections – How?

- Identify
 - Priorities
 - Strengths
 - Weaknesses
 - Needs/wants
 - Opportunities

- Support
 - Promote idea to whom?
 - What will it add to the institution
- Resources & limitations
 - Funding
 - Space
 - Staff



Needs

- Funding
 - Materials, plants, seed, pots, soil, labels, tables
 - Collecting trips
 - Maintenance
- Space
- Staff
- Additional resources...





Needs

Funding

- Materials, plants, seed, pots, soil, labels, tables
- Collecting trips
- Maintenance
- Space
- Staff
- Additional resources...

Opportunities

- Conservation
- Restoration
- Research
- Interpretation
- Education
- Tours
- Workshops
- Citizen science
- Grants
- Collaborate with other gardens/arboreta

Collection Policy

- Informs & guides development, management & review of the plant holdings
- Plant records management procedures
 - Standards for: acquisition, care, documentation
 - De-accessioning & disposal
 - Core data captured & retained
- Updated & current information
 Review of holdings

Stenocereus eruca



Plant Records Collections Policy

- Protocol for tracking
- Who is responsible for each step?
- What do you accession?
 - All plants? Those with data? Wild collected?
- When do you accession?
 - After 1 yr? Seedlings? Certain container size?
- How do you track lineage?



 Seedlings (controlled pollination?), divisions, pups, cuttings? Track back to mother plant? Plan ahead



Who is responsible?

- Critical to identify information needed, who will collect & maintain it at every step
 - Collection/acquisition
 - Nomenclature accuracy/changes
 - Health/inventory/mapping
 - Moving/removing
 - Propagation if needed & subsequent tracking
 - De-accessioning/disposal
 - Regulatory- sales, exchanges, permits, grants, tracking
- Ensure you have enough staff to follow necessary procedures & that record forms hold adequate data
- Train all staff & volunteers (raking, dead)



Let's get this party started Collection Planning

Development

- Goal, what/why/when
- Acquisition, where/how

Committee

- Involve stakeholders early
- Educate people continually
- Update



INVITATION

What:Plant Collection Party, CactaceaeWhy:Because it's our missionWhen:Spring 2018-until we dropWhere:Spring MountainsBYOS:Bring your own shovel



Collection planning

- Management
 - Documentation protocol, tracking
 - Assign responsibility for all steps

- Review holdings
 - Health
 - Inventory
 - De-accession
 - Disposal



Collection needs

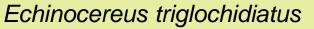
- Maintenance
- Tracking, inventory
- Succession, restoration, conservation, sales
- Propagation, collection, seed, voucher, volunteers
- Promoting, sharing

Cylindropuntia ramosissima



Sourcing material

- Collecting trips
- Other gardens/arboreta
- Botanic Gardens Conservation International, BGCI
- Indices Seminum
- Seed banks
- Seed sources worldwide (quality/accuracy of taxa id?)
- PCN through APGA to accredit collection







Index Seminum

- Some BGs offer seed, provenance, open pollination, etc.
- Seed is free to institutions, exclusively for scientific, educational & conservation purposes.
- Comply with the Intn'l Plant Exchange Network (IPEN) guidelines listed in terms & conditions, follow Convention on Biological Diversity (CBD) guidelines
- Some require cataloguing source of material & other data upon receipt
- Some online, some a catalog mailed
- International



Plant Collections Network

- Collaboration between APGA & USDA Agricultural Research Service
- Germplasm preservation
 Expand diversity of collections
- ✓ Build awareness
- ✓ Standard of excellence in collections management
- Offer resources, opportunities & funds to institutions caring for Nationally Accredited Plant Collections



AMERICAN PUBLIC GARDENS ASSOCIATION



Criteria for Network Participation

- > American Public Gardens Association Member
- Active Collections Management Program including plant records database, accession labels, maps
- Long-Term Commitment to maintain collection
- Endorsement of Governing Body
- Current Collection has 50% or more of ultimate collection scope
- Collections Policy
- Curator for Collection
- Access to Collection for research, evaluation and plant introduction

Contact Pam Allenstein 610-708-3015 pallenstein@publicgardens.org



Botanic Gardens Conservation International

BGCI provides a global voice for all botanic gardens, championing and celebrating their inspiring work. We are the world's largest plant conservation network, open to all. Join us in helping to save the world's threatened plants.

Plants for the Planet

Home About us Join in News and events Where we work Policy Plant conservation Public engagement Resources	Hom	e	About us	Join in			Policy			Resources
---	-----	---	----------	---------	--	--	--------	--	--	-----------



BGCI > Plants

Member's Area

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.



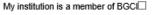


GardenSearch



Sign up to Cultivate Receive news and updates

Your Name:	
Email:	
Job Title:	
Institution:	



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:

Please note that your request may not be able to be fulfilled by individual gardens due to Convention of Biological Diversity (CBD) compliance issues (see http://www.bqci.org/resources/abs/ for examples). To help gardens process your request, please check the below box if appropriate.

Material will not be used for commercial/for-profit activities or lead to commercialisation



	About us	J	loin in	News and events	Where we work	F	olicy	Plant conservation	Public engage		lesources
PlantSearch	>	BC	GCI > PlantSea	rch							
About PlantS PlantSearch I Instructions		W	/elcome	to Plan	tSearc	:h!					
Member's PlantSearc	5		PLANT SEARCH ter search	Search 1,325, Locate threate Connect with I	989 collection ened, rare, n iving collect elow (al	on record nedicinal ions to a	ds, representin and other pla id your conse	d and tissue colle ng 534,626 taxa, a nt species in living rvation, education al)	ections: at 1,088 c g collectio and rese	ontributing	1
ThreatSea	urch >		servation State N Red List Pl			Species	Additional	specific Epithet Status: telative Please	Select -	~	
GlobalTree		IUCN Red List 1997 Please Select Image: Comparison of the sector of the sec									
Ciobarrici	eSearc										
			ch IUCN list sho found 4 matche		Searc	h Plants	•				
				S	Searce IUCN Red List	h Plants IUCN Red List 1997	CITES Appendix	Invasive Species Compendium fact sheet	CWR	No. of ex situ site worldwide	
		We f	found 4 matche	s Name	IUCN	IUCN Red List		Species Compendium	CWR o	ex situ site	s ex situ
		We f # 1	found 4 matches Plant Name Echinocactus	s Name Status Accepted	IUCN Red List Least	IUCN Red List	Appendix	Species Compendium	CWR (ex situ site worldwide	s ex situ sites <u>Send</u>
GardenSe		We f	found 4 matches Plant Name Echinocactus polycephalus Echinocactus polycephalus va	s Name Status Accepted r. Synonym Accepted	IUCN Red List Least	IUCN Red List	Appendix	Species Compendium	CWR (ex situ site worldwide 16	s ex situ sites <u>Send</u> <u>Request</u>



Promote your collection/goals

Before, during & after

- Spread the word
- Tell donors, volunteers, local community & garden community, visitors, staff, media
- Write articles
- Get board, staff and volunteer support
- Fund raise
- Updates

Yucca baccata





Thank you!



Terms and conditions

Against the background of the provisions and decisions of the Convention on Biological Diversity (CBD) and in particular those on access to genetic resources and benefit-sharing, the Hortus Botanicus Amsterdam is dedicated to promoting the conservation, sustainable use, and research of biological diversity. The garden therefore expects its partners in acquiring, maintaining and transferring plant material to always act in accordance with the CBD.

The responsibility for legal handling of living plant material passes on to the recipient of the material. The requested plant material will be supplied on the following conditions, as drafted by the International Plant Exchange Network (IPEN):

The plant material is supplied only for non-commercial use such as science, conservation and educational purposes. Should the
recipient at a later date intend a commercial use or a transfer for commercial use, the country of origin's prior informed consent (PIC)
must be obtained in writing before the material is used or transferred. The recipient is responsible for ensuring an equitable sharing of
benefits.

On receiving the plant material, the recipient endeavours to document the received plant material, its origin (country of origin, first receiving garden, 'donor' of the plant material, year of collection) as well as the acquisition and transfer conditions in a comprehensible manner.

3. In the event that scientific publications are produced on the supplied plant material, the recipient is obliged to indicate the origin of the material (the supplying garden and the country of origin) and to send these publications to the garden and to the country of origin without request.

4. On request, the garden will forward relevant information on the transfer of the plant material to the body charged with implementing the CBD (ideally, the national focal point in the garden's home country).

5. The recipient may transfer the received plant material to third parties only under these terms and conditions and must document the transfer in a suitable manner.

By ordering seeds or other plant material, the recipient accepts the above terms and conditions and pledges to act accordingly.

Hortus Botanicus Amsterdam, Netherlands (AMD), 2017.

