



## Quick Guide to the Seeds of Success Protocol

### Program Goals

The purpose of the Seeds of Success program is to establish a national, high quality, accurately identified, and well documented native plant species seed collection. All seed collections are used to support development of geographically appropriate native plant materials for research, development, germplasm conservation, and ecosystem restoration.

### Targeted Species

The collection focus of the SOS program is on species needed for restoration and rehabilitation projects. Teams may make multiple collections of species on their target species list as long as they are capturing unique populations in each collection. Collecting teams are encouraged to work with local federal land managers and the National Coordinating Office to develop and execute priority target lists.

### Sampling Protocol

- Only collect from wild populations
- Sample from at least 50 individuals, document the number of individuals sampled on the SOS Field Data Form
- Material collected on multiple dates can be added to the same accession throughout an entire growing season, so long as no more than 20% of the ripe seed is collected from the population on a single day
- An ideal collection is 10,000+ seed
- Different populations are kept as separate accessions
- Materials collected from the same population during multiple growing seasons should be kept as separate accessions

### Field Documentation

#### *The SOS Field Data Form*

Use the Field Data Form (**Appendix 2**) for each seed collection and fill out **all** data fields. Keep one copy of the completed forms for your records and send one copy with your seed to the Bend Seed Extractory or partner cleaning facility. Also, email one copy to the SOS National Coordinating Office.

#### *Photographs*

Three digital photographs for each collection shall be sent to the National Coordinating Office. One photo each of the material collected (seed), the individual plant, and the plant population (habitat). These can be sent electronically at the end of the collection season. Naming convention: {PLANTS Code\_Seed Collection Reference Number\_Picture Number}.

Example: NSNWR's collection of *Symphyotrichum lanceolatum* (PLANTS Code = SYLA6)

SYLA6\_NSNWR-419\_A.jpg

SYLA6\_NSNWR-419\_B.jpg

SYLA6\_NSNWR-419\_C.jpg

### **Herbarium Vouchers**

Three specimens shall be collected as a record of each SOS collection.

1. U.S. National Herbarium (see Contacts for address)
2. One to a regional herbarium (see *Appendix 6* for list)
3. One to keep at your field office

### **Shipping and Cleaning**

Most federal SOS partners send their seed to the Bend Seed Extractory (see Contacts for address) for cleaning. Please notify the Bend Seed Extractory that seeds will be shipped and always send the seeds overnight mail or with FedEx. Include a copy of the completed field data forms documenting the collection with all shipments of seed; material will not be cleaned without this documentation.

### **Long-term Storage and Distribution**

Accessions are sub-divided for -20°C and 4°C back-up storage at the Western Regional Plant Introduction Station in Pullman, WA and the National Center for Genetic Resources Preservation in Fort Collins, CO. Any seed over 1,000 PLS for recollections, and 3,000 for standard and operational collections will remain at the Bend Seed Extractory and may be requested for specific projects. Contact the National Coordinating Office for more information.

### **Training and Resources**

- Seeds of Success Website: [www.blm.gov/sos](http://www.blm.gov/sos)
- Seeds of Success Listserv: Instructions for joining the listserv are available on the SOS website
- Training: “Seed Collection for Restoration and Conservation” is offered annually through the BLM National Training Center. Contact the National Coordinating Office for more information.
- Collectors’ Call: On the first Tuesday of every month, collectors are invited to participate in the Collectors’ Call, a conference call for all active SOS Partners. This is a forum for discussion with other collectors and raising issues and questions. Contact the National Coordinating Office for more information.

### **Contacts**

Anna Lindquist  
Seeds of Success National Curator  
Bureau of Land Management  
(208) 373-3822  
[alindquist@blm.gov](mailto:alindquist@blm.gov)

Kayla Herriman  
USDA USFS - Bend Seed Extractory  
63095 Deschutes Market Road  
Bend, OR 97701  
(541) 383-5481  
(541) 383-5498 Fax  
[kherriman@usda.gov](mailto:kherriman@usda.gov)

Erika Gardner  
Smithsonian Institution  
NMNH Department of Botany, MRC-166  
10th and Constitution Ave., NW  
Washington, DC, 20560  
(202) 633-0904,  
[gardnere@si.edu](mailto:gardnere@si.edu)