National Center for Genetic Resources Preservation

1111 South Mason St
Fort Collins, CO

USDA
Safeguarding our national collection of genetic resources to secure the biological diversity that underpins a sustainable U.S. agricultural economy through diligent stewardship, research and communication

ARS Units:

**Plant and Animal Genetic Resources Preservation Unit**
(H. Blackburn, Acting RL; Stephanie Greene, Seed Curator; Maria Jenderek, Clonal Curator)

**Plant Germplasm Preservation Research Unit**
(C. Walters, RL)
NCGRP Summary (2014)

- Total NPGS accessions 540,062
- Backed up at NCGRP 78%
- NCGRP unique accessions- 18,159
- Also provide safety backup for non-NPGS plant germplasm
  - 7379 Plant Variety Protection accessions
  - 1737 Journal of Plant Registration
  - 300,000 black-box accessions
  - Center for Plant Conservation, USFS
2014 Overview

- Received 8,371 accessions
- 5410 germination tests were conducted on incoming accessions and 2433 monitor tests were conducted on stored seed
- Sent out 114 orders, comprising 603 seed inventories. Also sent out 109 tissue culture inventories to Corvallis repository
- 18,473 accessions are ready to be shipped to Svalbard
W6 Collections backed up at NCGRP

(overall 73%, up 1% from 2013)
Seeds of Success (SOS)

- BLM native plants collection program
- Coordinated by Pullman with back-up at Fort Collins
- Received 1099 accessions in 2014
- Total of 8389 accessions at NCGRP with 7889 tested and in storage
- Accessions are in GRIN and are being incorporated into the NPGS collections for distribution
SOS native seeds
Wide range of seed viability

Average germination of 783 genera (7746 tests)

- Range of germination %
- # of genera
NCGRP Challenges

- Develop germination and storage protocols for wild native species
- Develop routine monitor testing based on FAO standards of testing intervals that are 1/3 expected longevity of species
- Increase level of clonal security back up
- Loss of technical help-retirements