Southwest Seed Partnership

Melanie Gisler & Cameron Weber, Institute for Applied Ecology
Kathryn Kennedy, US Forest Service Southwest Region
Zoe Davidson, New Mexico Bureau of Land Management
Thank you to Ella Samuel and partners

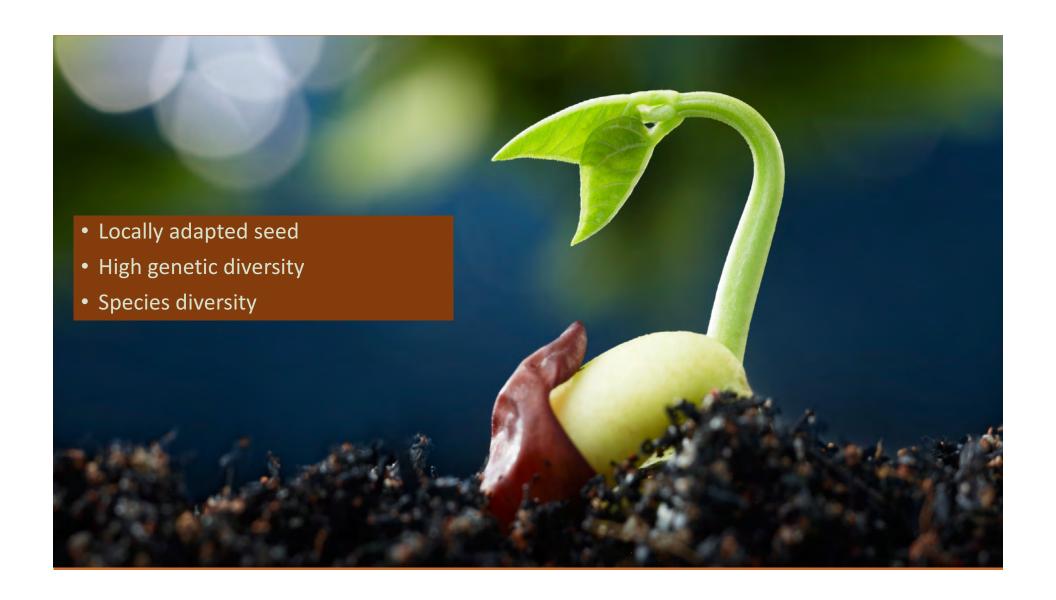


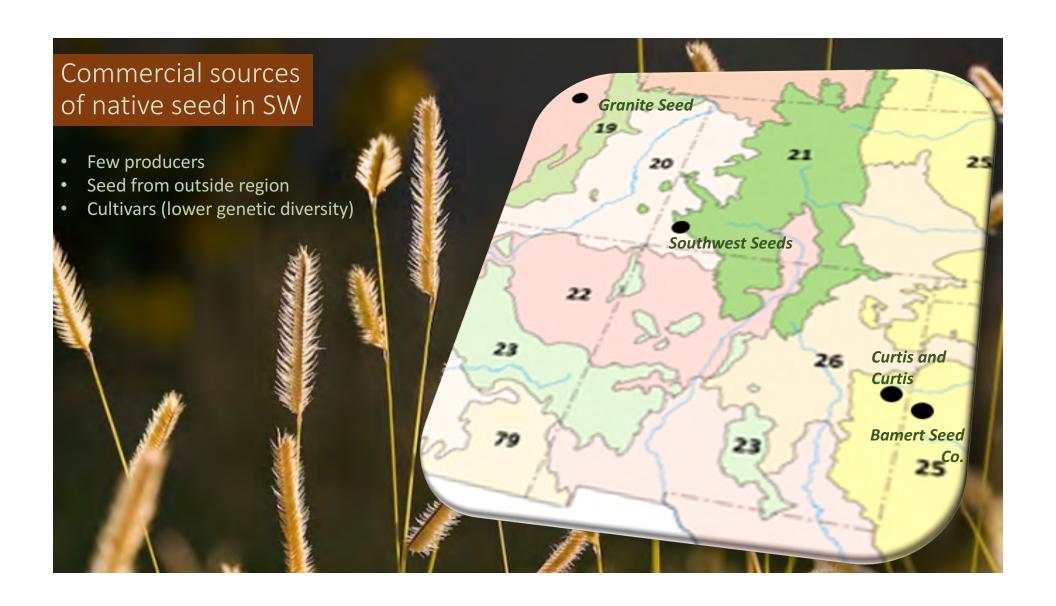












II. History of Partnership

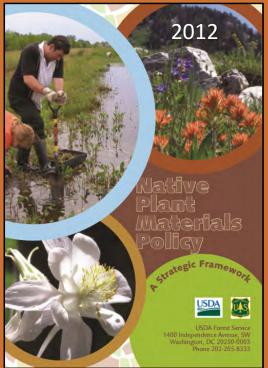
Initiated October 2015

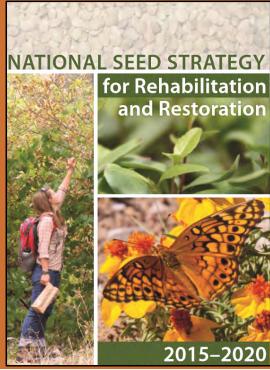
More seed & better seed & program

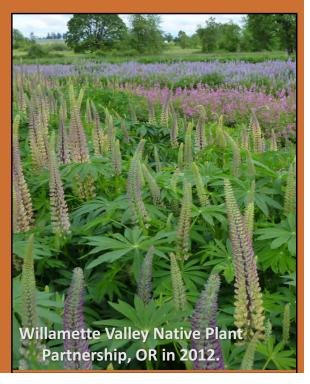


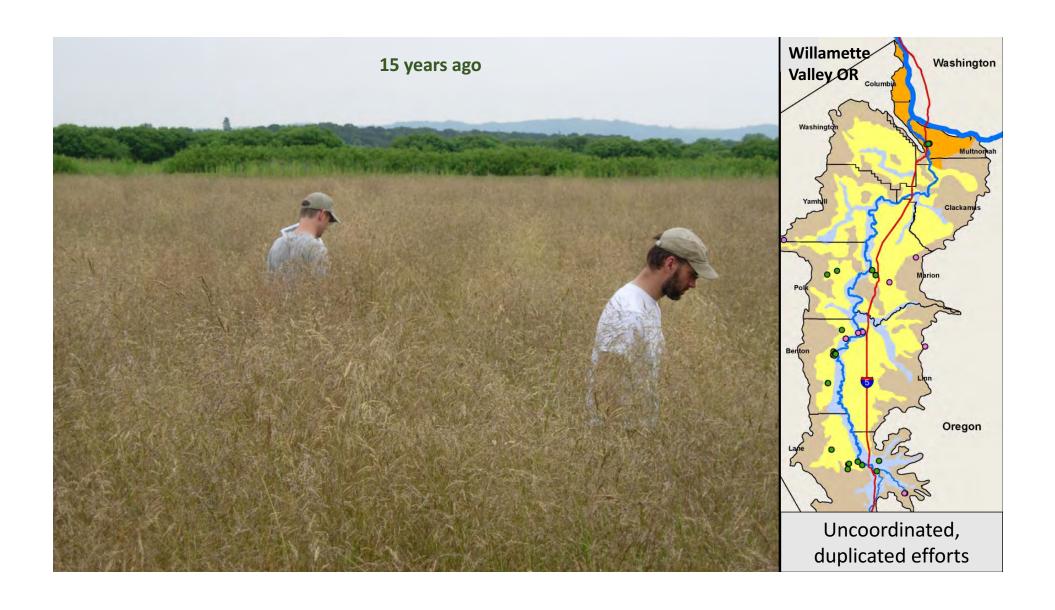












Willamette Valley Plant Materials Partnership



30 partners Signed MOU

Pool resources for coordination, collection, production 50 species in production





Southwest Seed Partnership

National and Regional

Forest Service R3

Bureau of Land Management

Institute for Applied Ecology

National Park Service

US Fish and Wildlife Service

Natural Resources Conservation Service

New Mexico

Quivira Coalition

NM Department of Transportation

NM Land Conservancy

Pueblo of Santa Ana

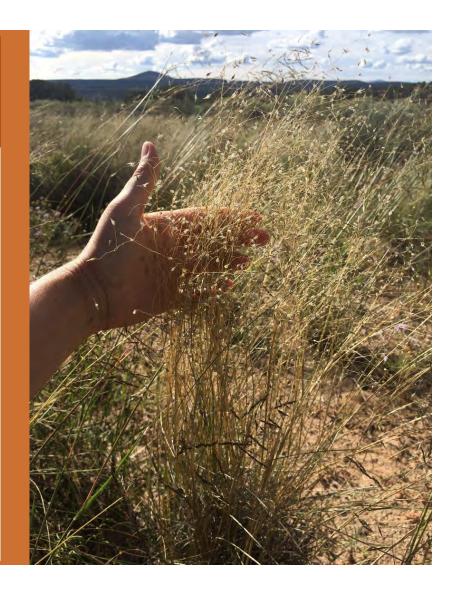
NM Dept. of Energy Minerals and Natural Resources

NM Game and Fish

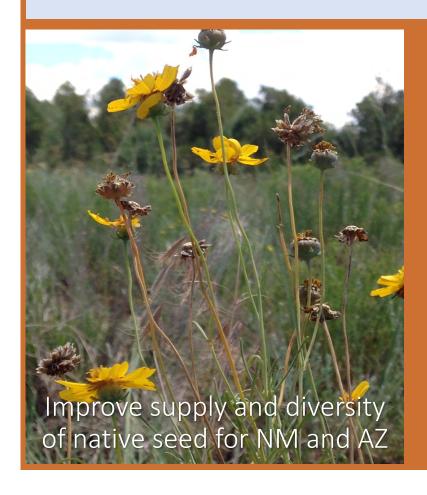
Arizona

Verde Valley Native Plant Materials Partnership

Borderlands Restoration



III. Primary Purpose of Partnership and What We Do

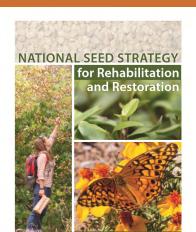


Implement National Seed Strategy

National Strategy Goals



SW Seed Partnership Steps

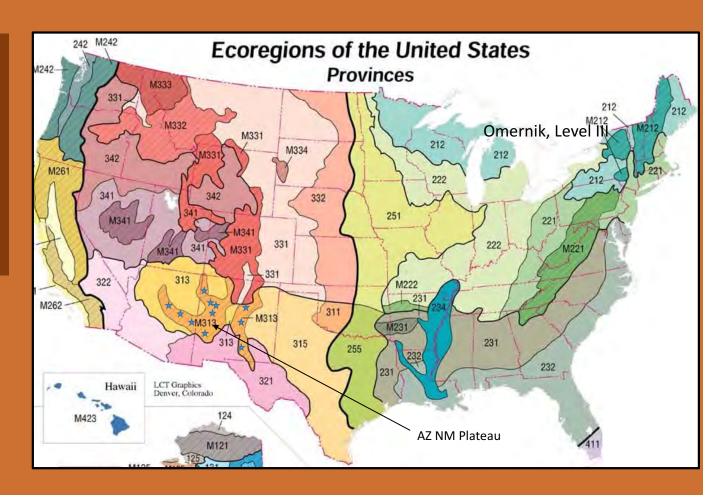


- 1. Assessments and prioritization
- 2. Seed collection and tracking
- 3. Accessions based on science
- 4. Production
- 5. Collaboration and coordination

ASSESSMENTS

Step 1 Determine Geographic Priorities

Which ecoregions have the greatest demand for seed?



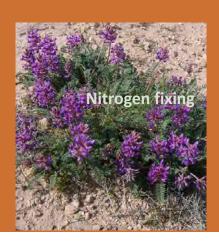
Step 2 Identify Target Species

Species in demand?

Desired attributes?

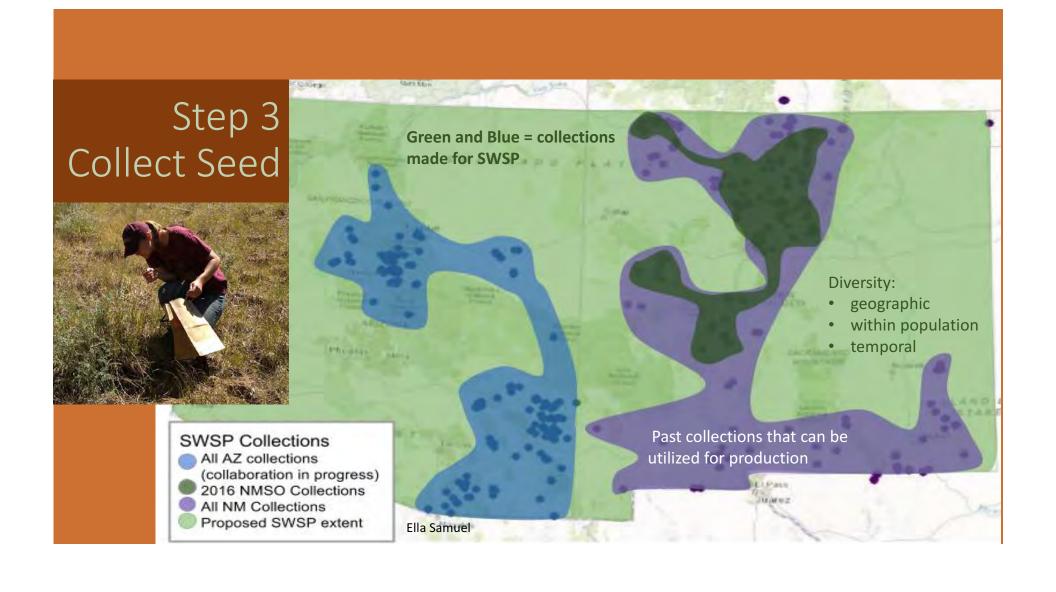












2016 Seed Crew 5 Partner Collaboration

NM

Forest Service R3
NM Bureau of Land Management
National Park Service
Institute for Applied Ecology

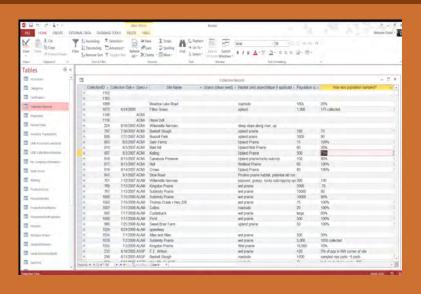
Α7

Verde Watershed Plant Materials Program



6 ecoregions, >200 populations from 62 species Cover 2 program needs: SOS and SWSP

Step 4 Track Seed



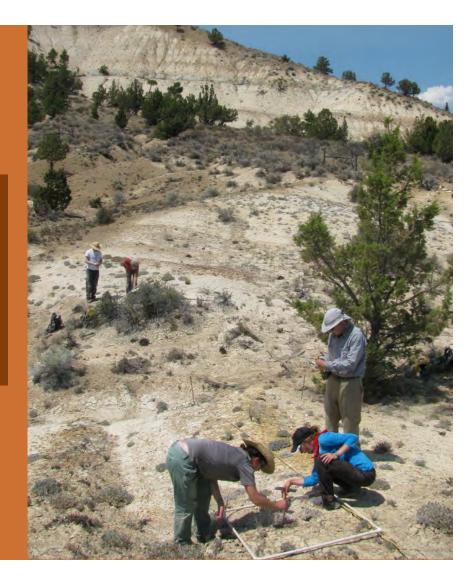


Can we share databases with partners or make data cross walks?

BUILD ACCESSIONS BASED ON SCIENCE

Step 5 Determine seed zones

Balance genetic contributions



PRODUCTION

Production 2017 NM & AZ

Contracting 4-10 small to medium-sized test fields

Matrix grasses, pollinator resource plants, annual



COLLABORATION AND COORDINATION

Steps 1-7

Check-in meetings w/core partners (4x/month)

Stakeholder Meeting (1x/year) April 26, 2017, ABQ

Committees
Steering
Grower Advisory
Seed Quality
Species Selection



IV. Critical assessment of what we are lacking

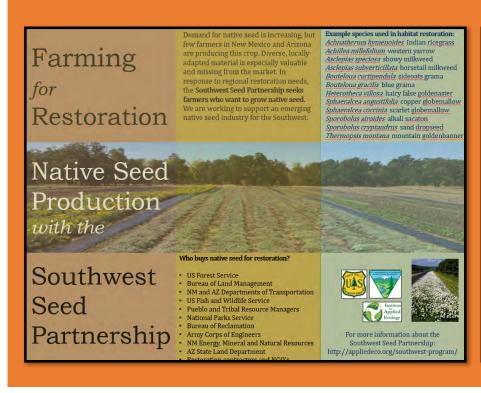
Lack: SW producers. Experience and appropriate farm equipment for native species production.





Solution

- Outreach make case to farmers to convert other ag crops to native
 Native species require less water (water shortages in SW)
- Listen to and respond to needs, offer training, and involve in R &D





Preliminary Approach



Large scale, established

Familiar grasses and forbs



Small-medium scale

Test cultivation of new species, pollinator plots, nursery production





Lack: Not all land managers educated about merits of diversity and local seed



Solution

Outreach to land managers
Stronger policy language: NM DOT changed seed
purchasing requirements to prioritize local, native seed

"Know where your seed comes from" "Request seed tests"



Lack: Seed Transfer Zone Data



Solution

Common Garden

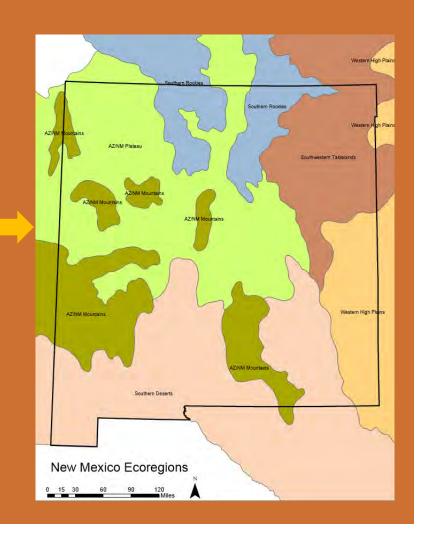
Seed Zone Mapper Tool

Expert Feedback

Provisional Seed Zones

Genetic studies

Life history traits



Lack: Foresight of future seed needs plus seed for emergency needs



Collection 1-2 years



Cultivation 2 + years

First harvest 1-4 years (Best yield 2-4 years)

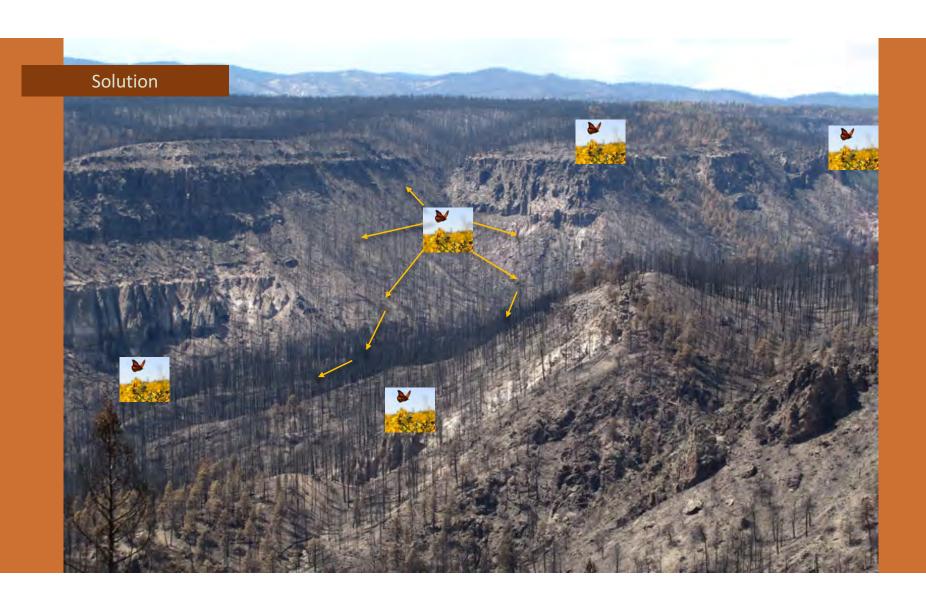


Solution

Plan 5 years ahead

Seed available in 4-10 years for projects









The preceding presentation was delivered at the

2017 National Native Seed Conference

Washington, D.C. February 13-16, 2017

This and additional presentations available at http://nativeseed.info





