National Native Plant Materials Development Program

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National Native Plant Materials

• History of the Program
• Need for the Program
• Native Plant Materials Development Process
• Funding
• Leveraging Investment
• Accomplishments
• Next Steps
Importance of Program to BLM and DOI

- Climate Change
- DOI Treasured Landscapes
- Youth Program
- Healthy Lands and Restoration
National Native Plant Materials

House of Representatives’ FY2001 Conference Report

• Directs “…the agencies to develop a long-term program to manage and supply native plant materials for various Federal land management restoration and rehabilitation needs.
• Recommends “…the interagency Plant Conservation Alliance lead this effort.”
Changes in USDA Hardiness Zones

1990 Map

2006 Map

2006 National Arbor Day Foundation
According to the models, flowering of Sonoran Desert shrubs might have advanced by 20–41 days from 1894 to 2004 (Bowers 2007).

Change in flowering effects migratory hummingbirds and population dynamics of shrubs.

In the Southwest, the most widespread example of species redistribution is the movement of woody plants like creosote bushes and mesquite trees into native grasslands.
Ten-Year Budget Strategy

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<th>Funds Needed</th>
<th>Funds Received</th>
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Dollars (millions)
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**2001-2010 Total: $48.8 million**
National Native Plant Materials

Royal Botanic Gardens, Kew
Chicago Botanic Garden
Native Seed Network
Center for Plant Conservation
Uncompahgre Plateau Project
Lady Bird Johnson Wildflower Center
PCA/NFWF Grant Program
Great Basin NPSIP (20+ partners)
Pacific Northwest (OR/WA)
Total Leverage Funds: $15M
BLM’s Five Year Strategy for Native Plant Materials Development Program

• Increase Seed Collection
• Develop Eco-regional Native Plant Material Programs
• Determine Seed Transfer Zones
• Increase Seed Storage Capacity
Native Plant Materials Development Process

1. Native Seed Collection
2. Evaluation & Development
3. Field Establishment
4. Seed Production by Private Growers
5. Seed Storage
6. Restore Native Plant Communities
Eco-regional Native Plant Programs

- Great Basin Native Plant Selection & Increase Program
- Colorado Plateau Native Seed Program
- OR/WA Native Plant Program
- California Native Plant Program
- Mojave Desert Restoration Initiative
- Sonoran & Chihuahuan Deserts
Accomplishments

• Provided foundation seed for 193 species to private growers.

• Made 122 native species commercially available.

• Made over 9,000 native seed collections

• Evaluated >3,327 taxa of forbs, grasses & shrubs.

• Coordinated 65 seed collecting teams.
Accomplishments

• Utah- Established the Interagency Colorado Plateau Native Plant Program.

• Pacific Northwest- Cooperative Agreement with Forest Service Seed Extractory in Bend, OR to clean, test and distribute native seed collections.

• Collaborate with 10 western NRCS Plant Materials Centers.
Accomplishments

• Support the Intertribal Nursery Council to ensure Native American participation.

• Developed 4 training courses
  – seed collecting
  – seed processing
  – selecting native plants
  – electronic field notes
  – held 32 sessions and trained over 1,700 people.

• Maintained the Seeds of Success website
Future Seed Storage Capacity

National Seed Warehouse        Boise, ID
3.5 million pounds storage
100,000 pounds cold storage

UT Div. of Wildlife Res.        Ephraim, UT
700,000 pounds storage
100,000 pounds cold storage

New Seed Warehouse              Ely, Nevada
800,000 pounds storage
100,000 pounds cold storage
National Native Plant Materials Development Program

- 2008 Interagency Program Review
- 2009 Action Plan developed
- 2010 Action Plan Implementation
Key Recommendations from 2008 Program Review

• Establish Sub-activity
• Establish Interagency Advisory Group
• Develop Interagency Strategic Plan
• Identify Priority Workhorse Species
• Identify Long-term Storage Capability
Plant Conservation Program

• BLM Five-Year Strategy for Native Plant Materials Development
• Set up briefing with ELT on NPMDP
• Brief the Department & other DOI and USDA agencies on NPMDP
• Increase Seed Storage Capacity
• Establish Sub-activity for Plant Conservation Program