What is the Colorado Plateau?
Intermountain Semi-Desert and Desert
Nevada-Utah Mountains Semi-Desert - Coniferous Forest - Alpine Meadow
Colorado Plateau Semi-Desert
Arizona-New Mexico Mountains Semi-Desert - Open Woodland - Coniferous Forest - Alpine Meadow
Strategy

- Identify the Ecological Variability within the Plateau
- Identify Conditions and Threats to Systems within Ecological Zones
- Identify Plant Communities at Risk by Ecological Section
- Survey Agencies for Restoration Needs
- Identify Target Species by Plant Community
- Follow Seeds of Success Protocol
ECOLOGICAL VARIABILITY
# Conditions and Threats

## Develop Biodiversity Scorecard

<table>
<thead>
<tr>
<th>System Name</th>
<th>Biodiversity Status</th>
<th>Threat Status</th>
<th>Protection Status</th>
<th>Historic trend</th>
<th>Conservation Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine Tundra</td>
<td>8.1</td>
<td>9.2</td>
<td>8.1</td>
<td>-1%</td>
<td>Effectively conserved</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>7.7</td>
<td>8.4</td>
<td>7.8</td>
<td>-1%</td>
<td>Effectively conserved</td>
</tr>
<tr>
<td>Lodgepole</td>
<td>6.6</td>
<td>7.4</td>
<td>6.3</td>
<td>-6%</td>
<td>Moderately conserved</td>
</tr>
<tr>
<td>Aspen</td>
<td>6.9</td>
<td>5.9</td>
<td>5.6</td>
<td>-3%</td>
<td>Moderately conserved</td>
</tr>
<tr>
<td>SRM PJ</td>
<td>5.3</td>
<td>5.9</td>
<td>2.5</td>
<td>-8%</td>
<td>Moderately conserved</td>
</tr>
<tr>
<td>CO Plateau PJ</td>
<td>7.0</td>
<td>4.2</td>
<td>4.3</td>
<td>-14%</td>
<td>Weakly conserved</td>
</tr>
<tr>
<td>Oak &amp; Mixed Mtn Shrub</td>
<td>7.1</td>
<td>4.5</td>
<td>2.9</td>
<td>-5%</td>
<td>Weakly conserved</td>
</tr>
<tr>
<td>Sagebrush</td>
<td>6.2</td>
<td>4.6</td>
<td>.7</td>
<td>-12%</td>
<td>Weakly conserved</td>
</tr>
<tr>
<td>Ponderosa</td>
<td>5.0</td>
<td>3.6</td>
<td>3.7</td>
<td>-3%</td>
<td>Weakly conserved</td>
</tr>
<tr>
<td>Shortgrass</td>
<td>6.5</td>
<td>4.9</td>
<td>0.9</td>
<td>-48%</td>
<td>Poorly conserved</td>
</tr>
<tr>
<td>Sandsage</td>
<td>6.6</td>
<td>4.4</td>
<td>0.8</td>
<td>-19%</td>
<td>Poorly conserved</td>
</tr>
</tbody>
</table>

Develop Criteria for Target Species

- Ecological variation within the Colorado Plateau
- Plant Communities at risk
- Landscape Scale Restoration Species
- Valuable community component species… (niche species)
Identify Target Species

By Ecological Section

Northern Canyonlands

**SHRUBS**
- Black sage
- Cliffrose
- Dwarf rabbitbrush
- Fourwing saltbush
- Green ephedra
- Green rabbitbrush
- Rubber rabbitbrush
- Saskatoon serviceberry
- Winterfat
- Wyoming big sagebrush

**FORBS**
- Blueleaf aster
- Bluestem penstemon
- Cushion buckwheat
- Hairy golden aster
- Many-lobed groundsel
- Palmer penstemon
- Redroot buckwheat
- Rock goldenrod
- Shaggy fleabane
- Silky lupine
- Sulfur buckwheat
- Utah sweetvetch
- Western yarrow

**GRASSES**
- Basin wildrye
- Blue grama
- Bottlebrush squirreltail
- Galleta
- Indian ricegrass
- Muttongrass
- Needle-and-threadgrass
- Prairie junegrass
- Salina wildrye
- Sand Dropseed
- Sandberg bluegrass
Seeds of Success 6-Step 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
Additional Program Components

- Studies
  - Maintain/Establish Common Gardens
  - Plant Life History Studies
  - Understanding Competition
  - Natural Recruitment
- Research
  - Species Adaptability
  - Genetic Variability (Seed Transfer Zones)
  - Planting Techniques
  - Restoration Methods
- Education & Outreach
- etc...