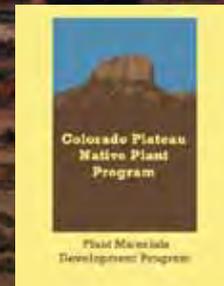


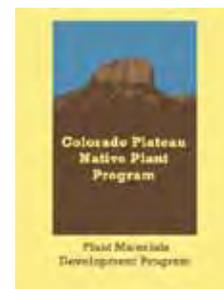
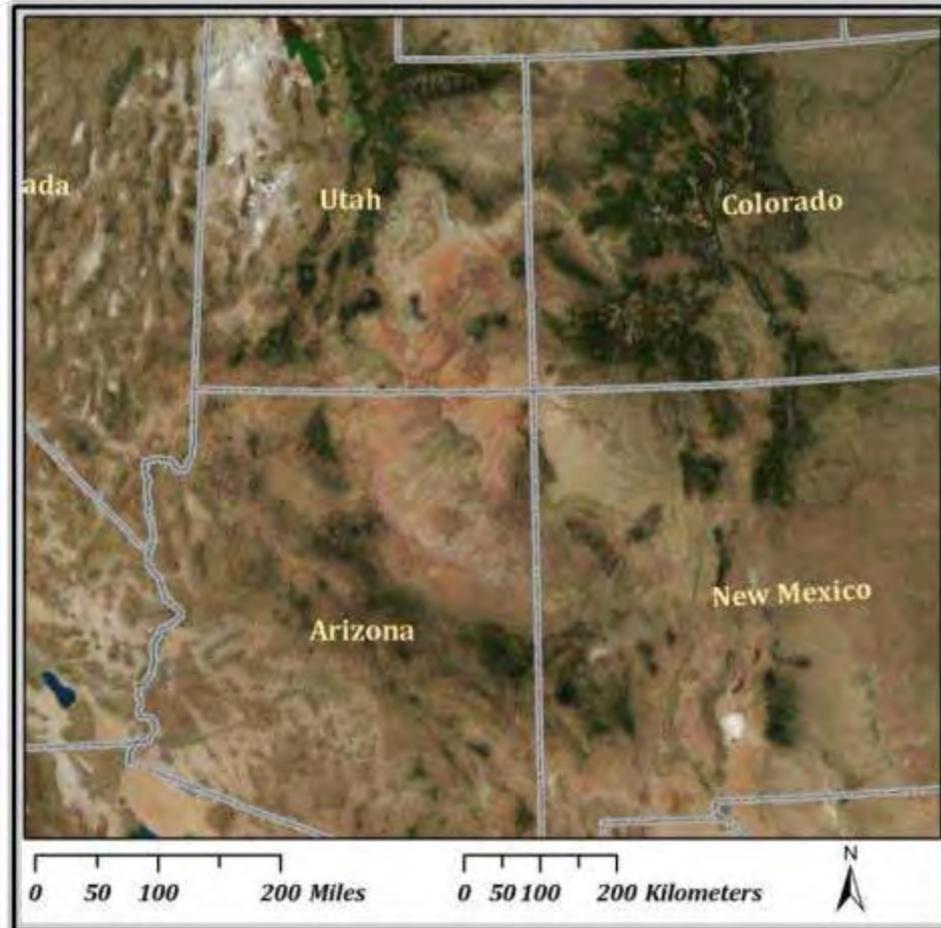
Colorado Plateau Native Plant Program

Progress and Challenges

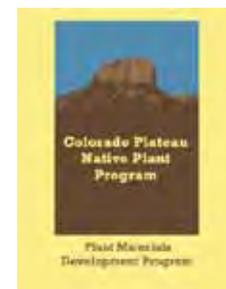
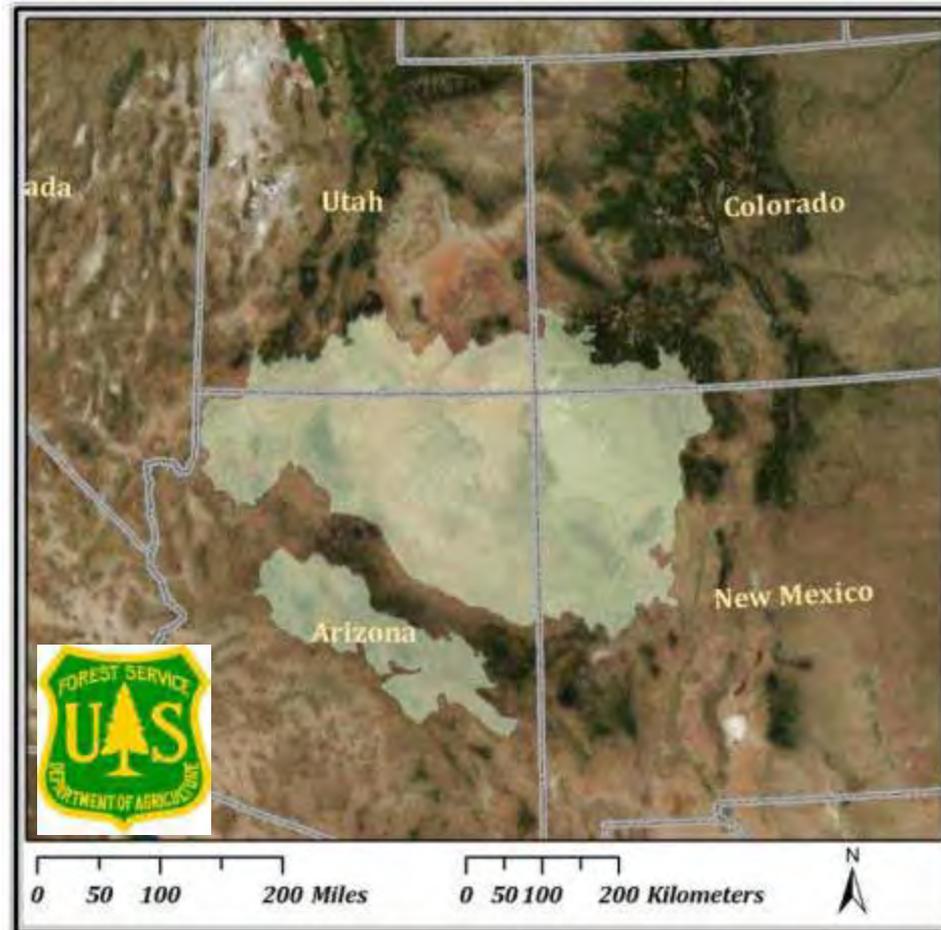
Wayne Padgett, Coordinator
Colorado Plateau Native Plant Program
Bureau of Land Management
Utah State Office



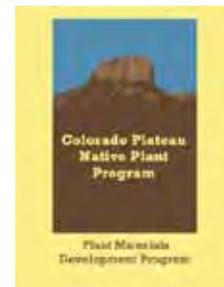
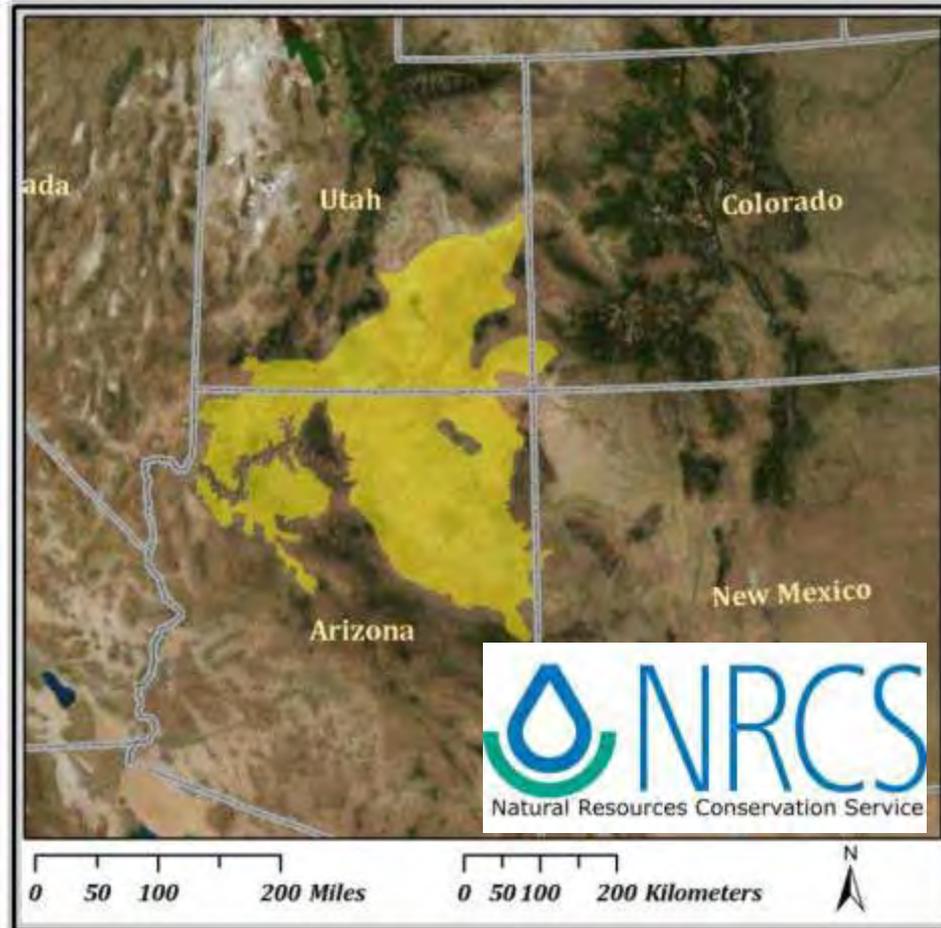
What is the Colorado Plateau?



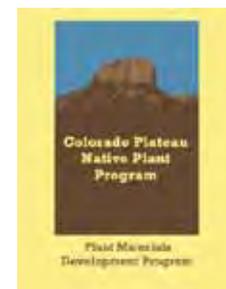
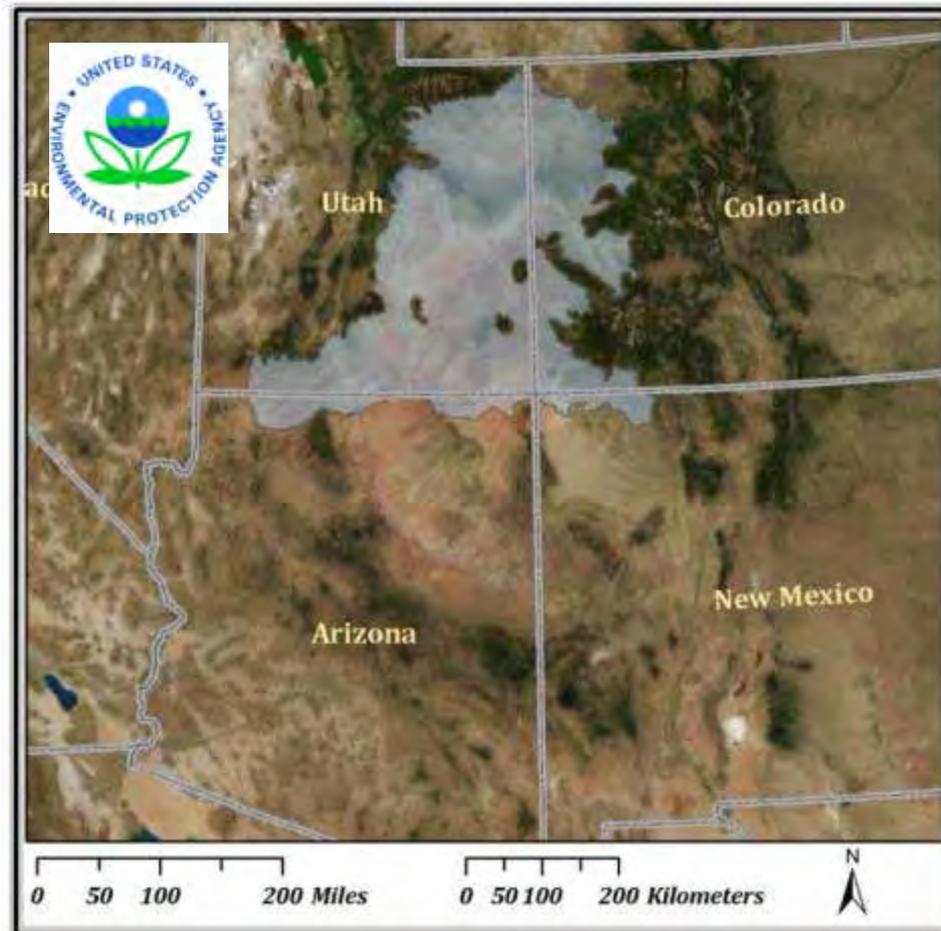
What is the Colorado Plateau?



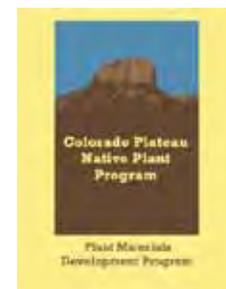
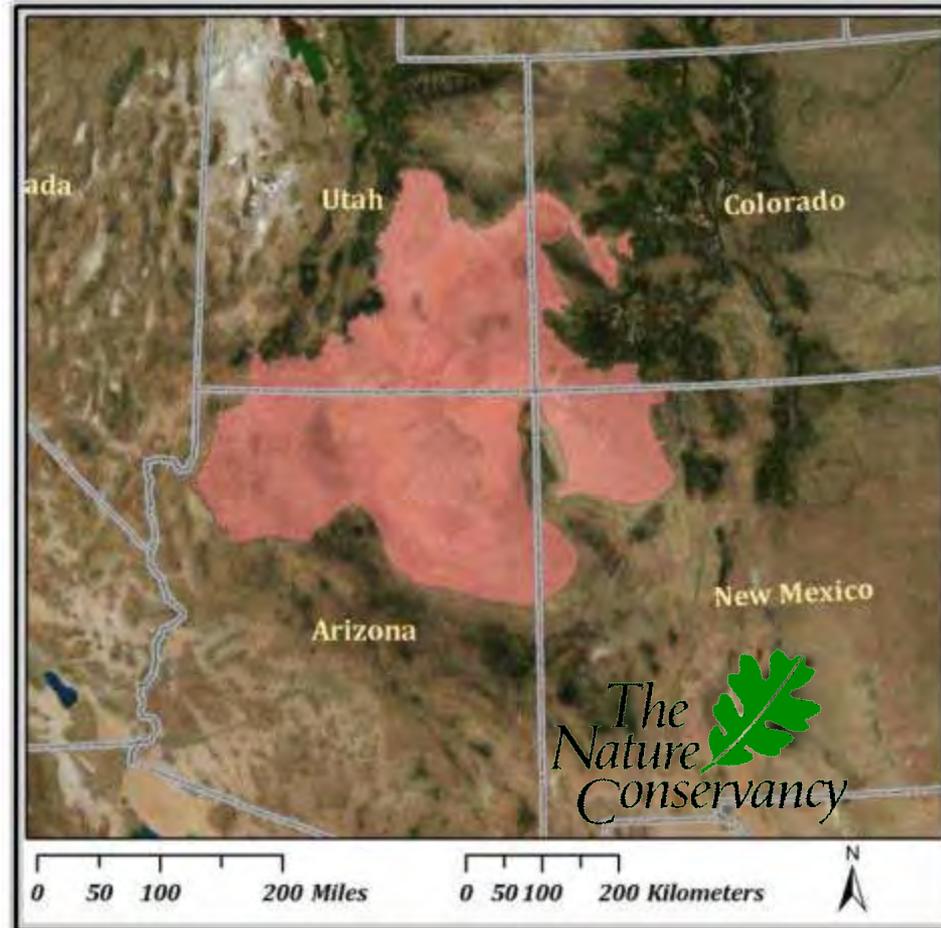
What is the Colorado Plateau?



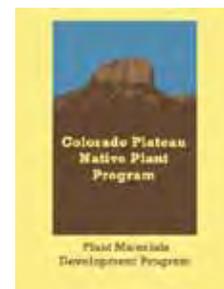
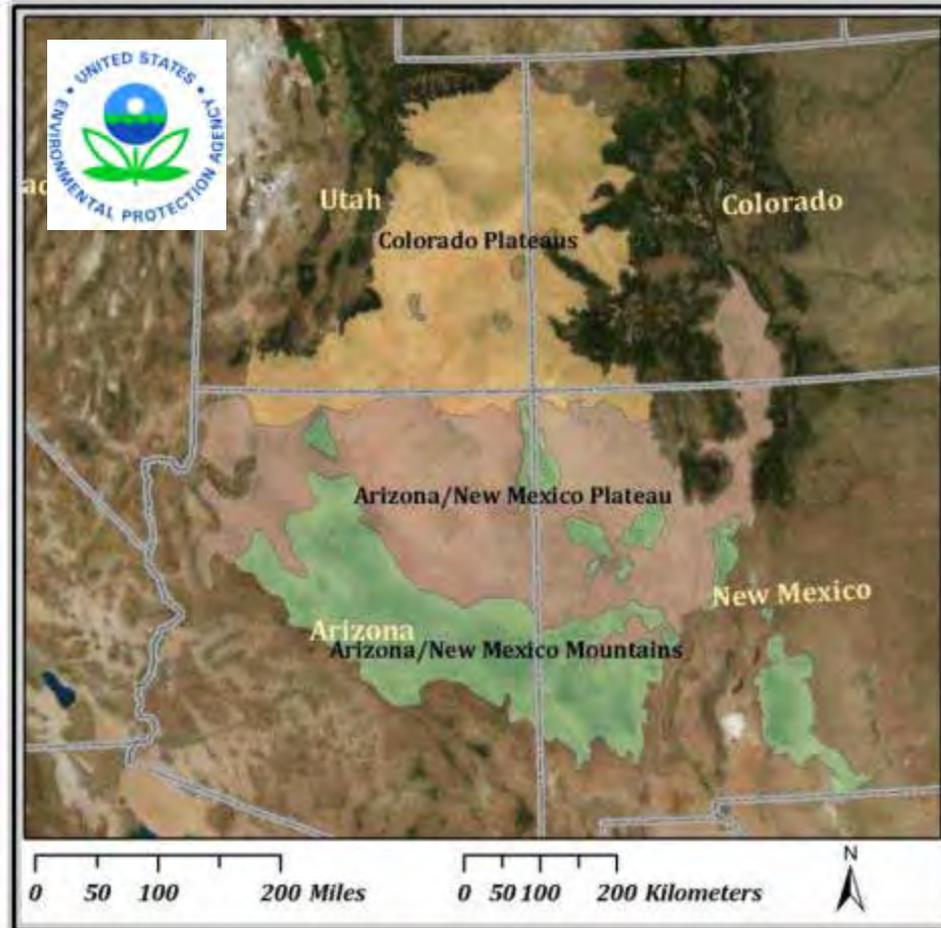
What is the Colorado Plateau?



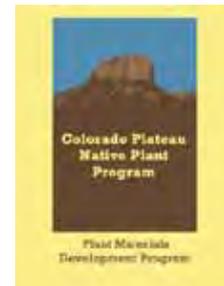
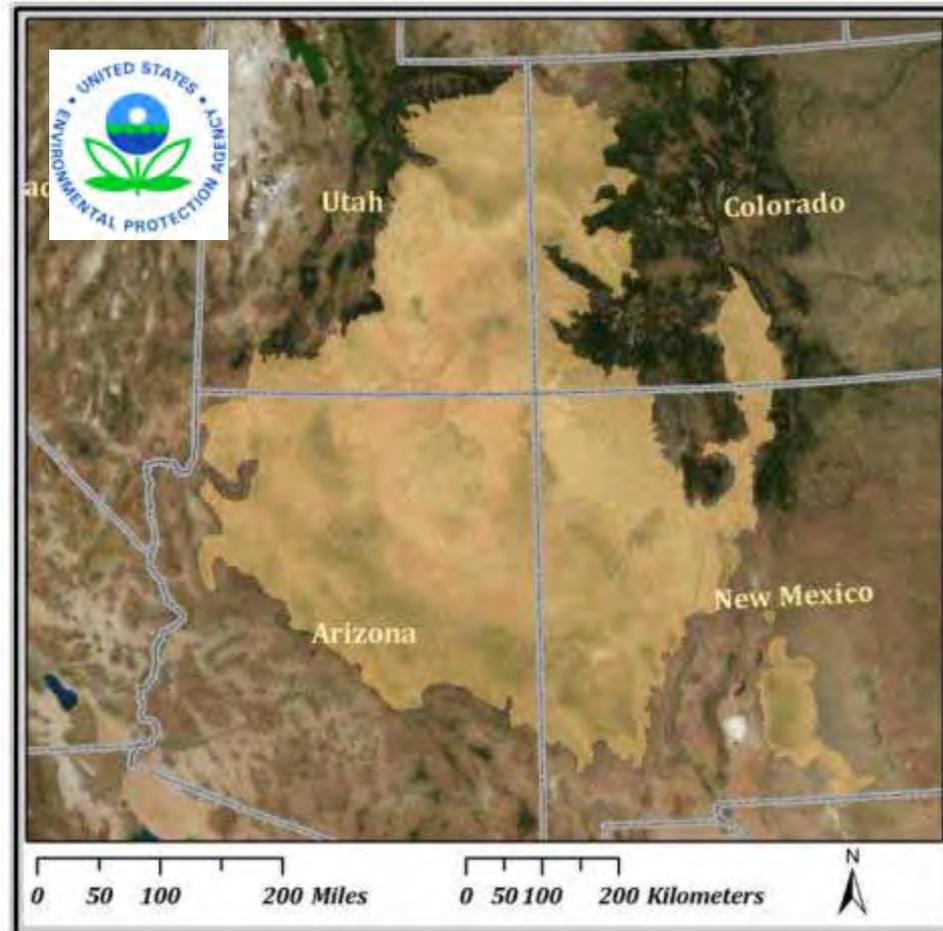
What is the Colorado Plateau?



What is the Colorado Plateau?

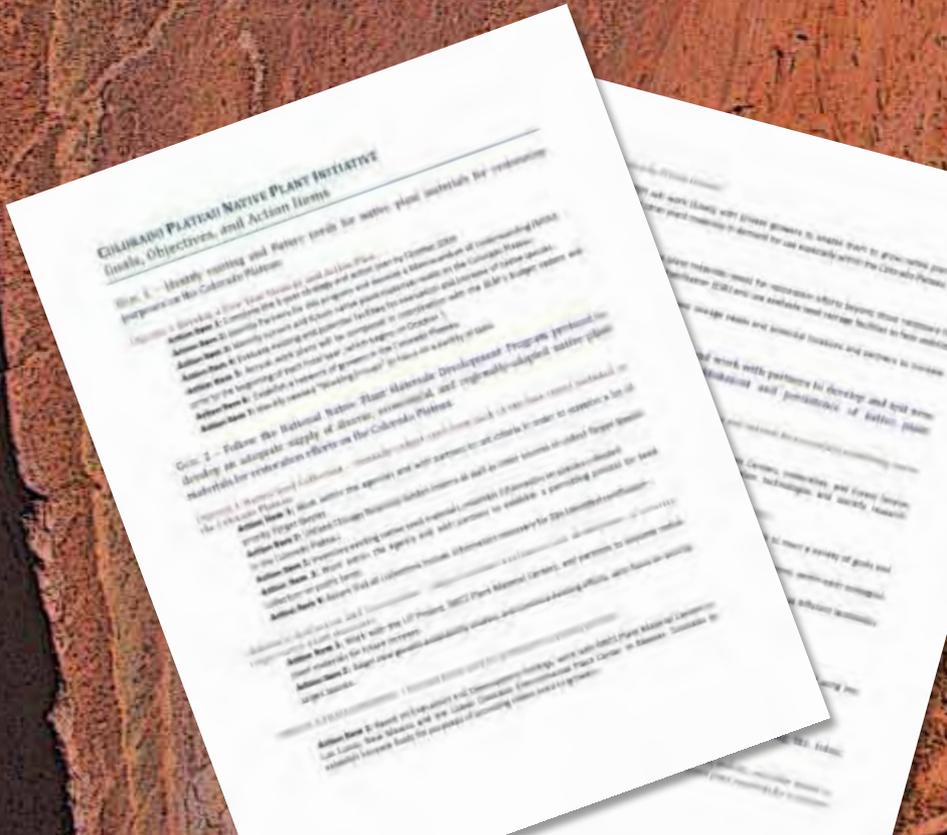
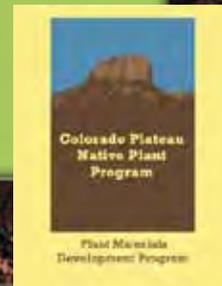
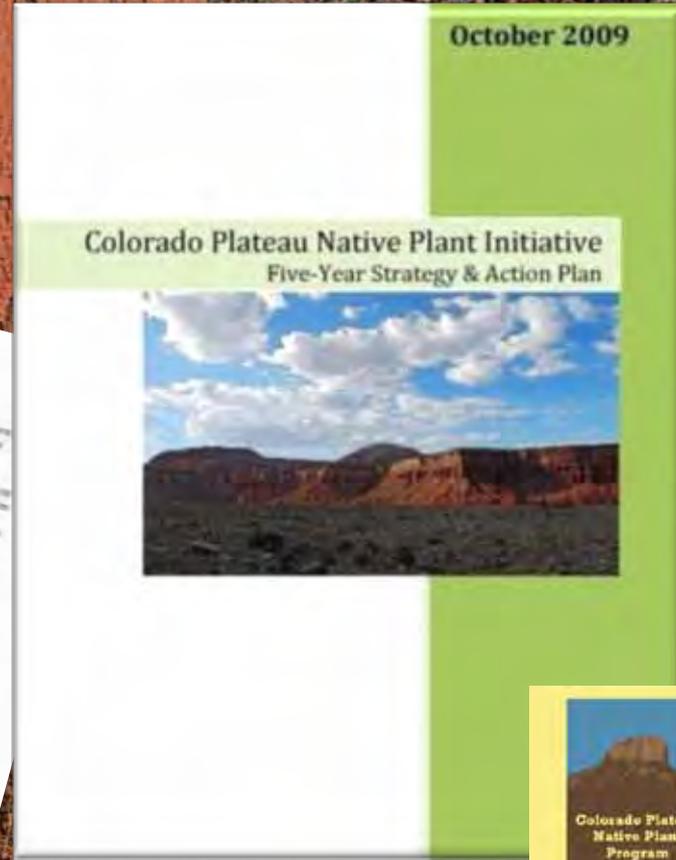


What is the Colorado Plateau?



Colorado Plateau Native Plant Program

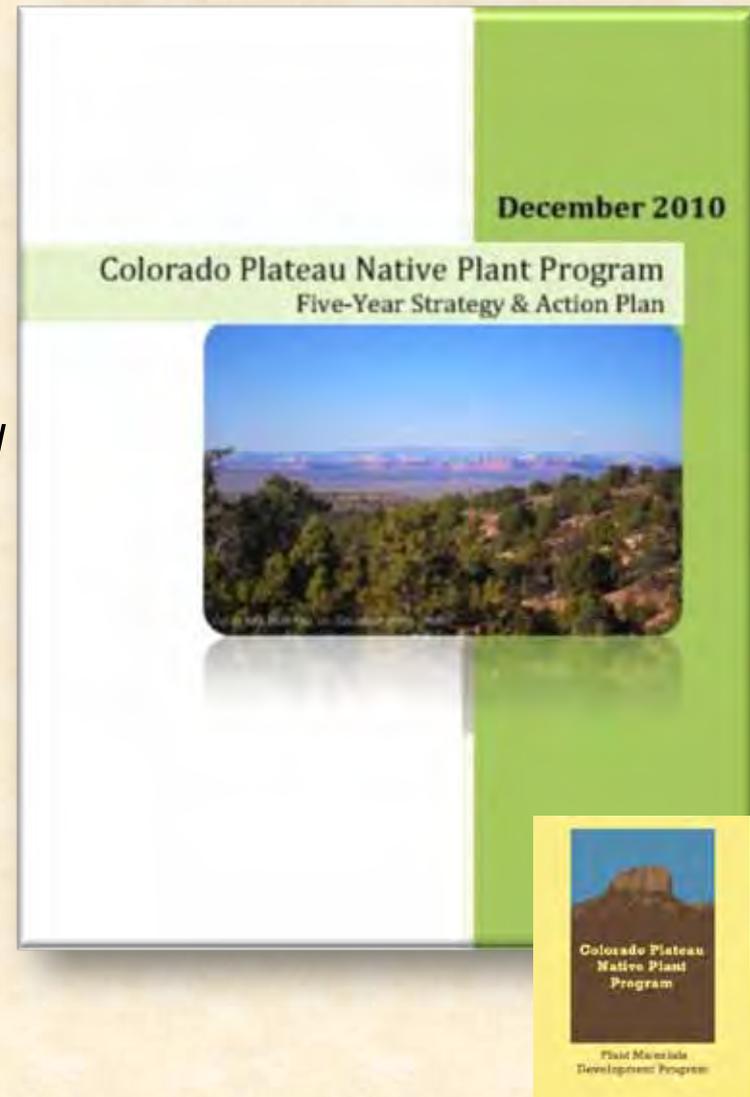
Five-Year Strategy and Action Plan



Colorado Plateau Native Plant Program

MISSION

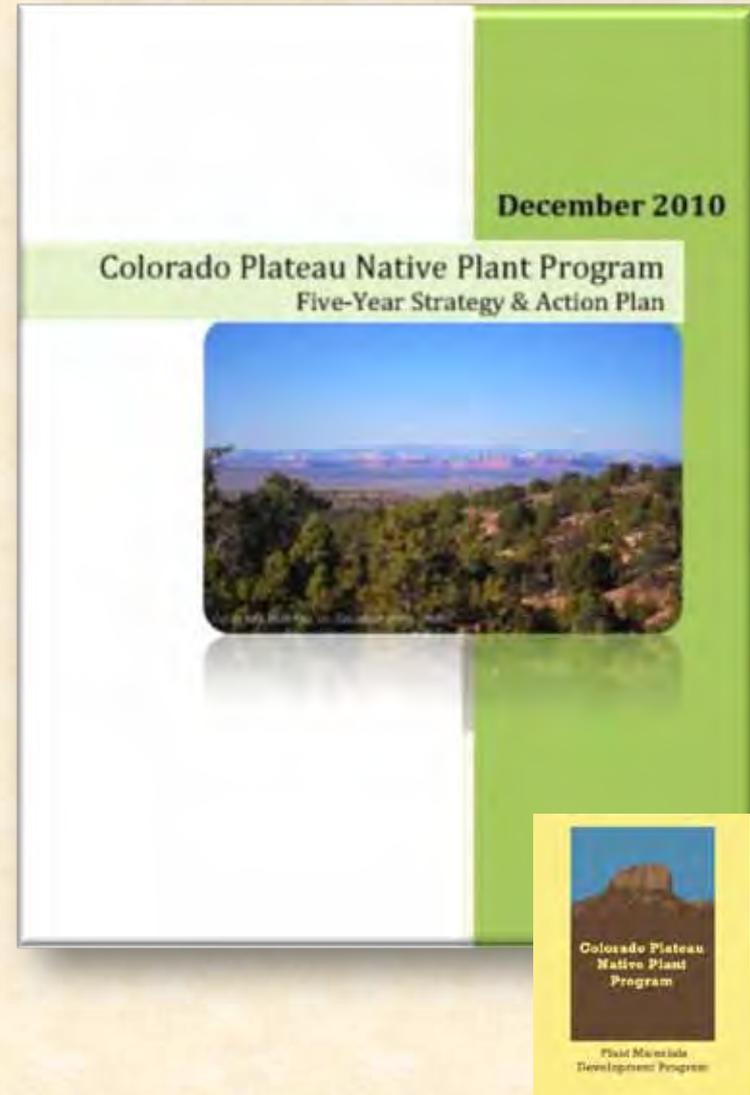
Our mission is to facilitate the increased availability and use of native plant materials for use in restoring native plant communities and ecosystems of the Colorado Plateau.



Colorado Plateau Native Plant Program

VISION

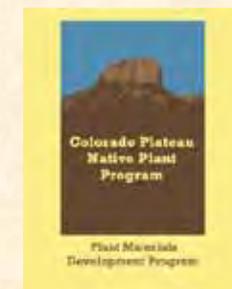
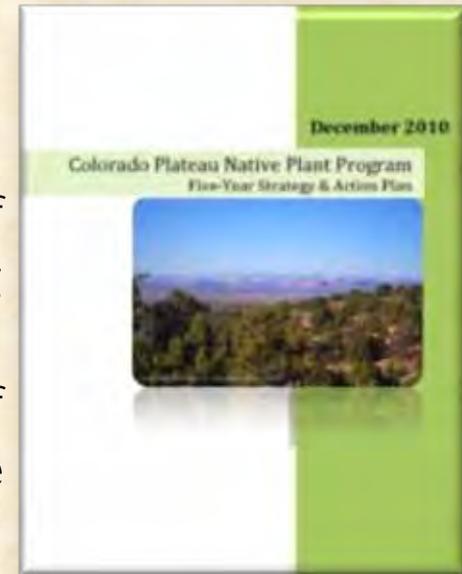
The vision of the Colorado Plateau Native Plant Program is a Colorado Plateau that supports healthy and resilient native plant communities now and for future generations



Colorado Plateau Native Plant Program

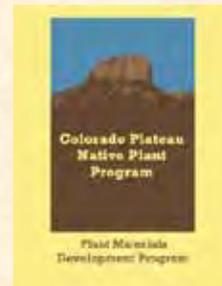
By implementing this strategic plan, the Colorado Plateau Native Plant Program will be better able to:

1. Increase the knowledge and understanding of the values and importance of using native plant materials for ecosystems restoration.
2. Contribute to the increased availability of regionally adapted native plant materials for use in restoration of native plant communities.
3. Identify and provide access to management practices that will result in the restoration of native plant communities.
4. Provide an economic benefit to businesses in the Colorado Plateau and facilitate a market for native plant materials and services.

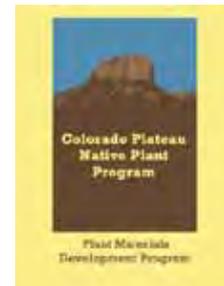
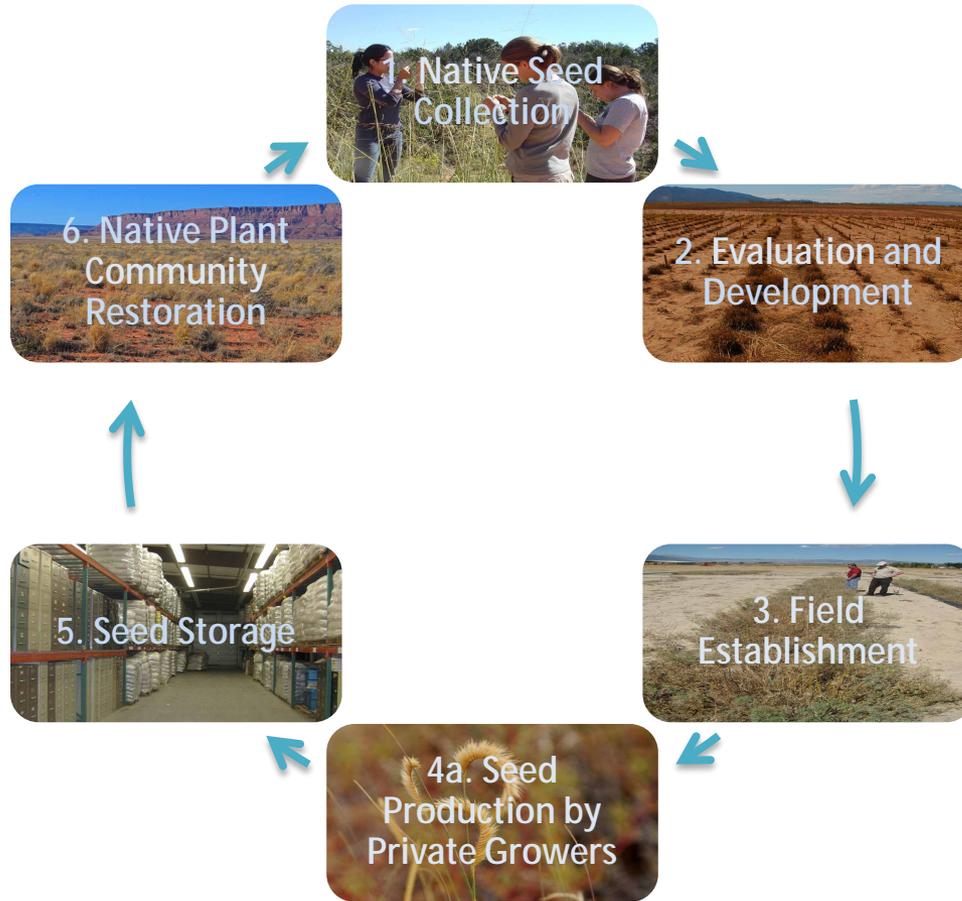


Colorado Plateau Native Plant Program

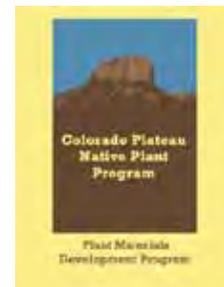
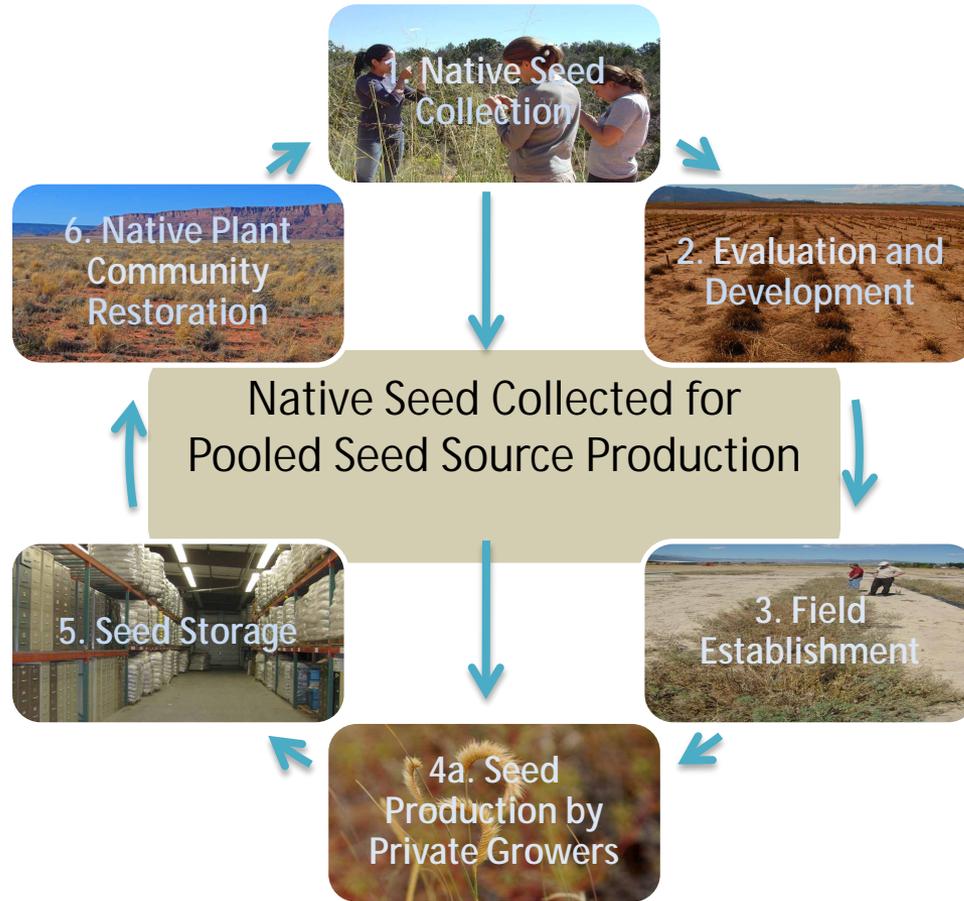
Goal – Follow the National Native Plant Materials Development Program to Develop an Adequate Supply of Diverse, Economical, and Regionally-Adapted Native Plant Materials for Restoration Efforts on the Colorado Plateau



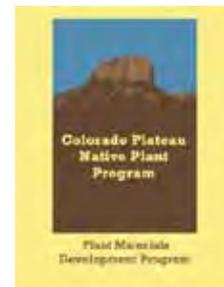
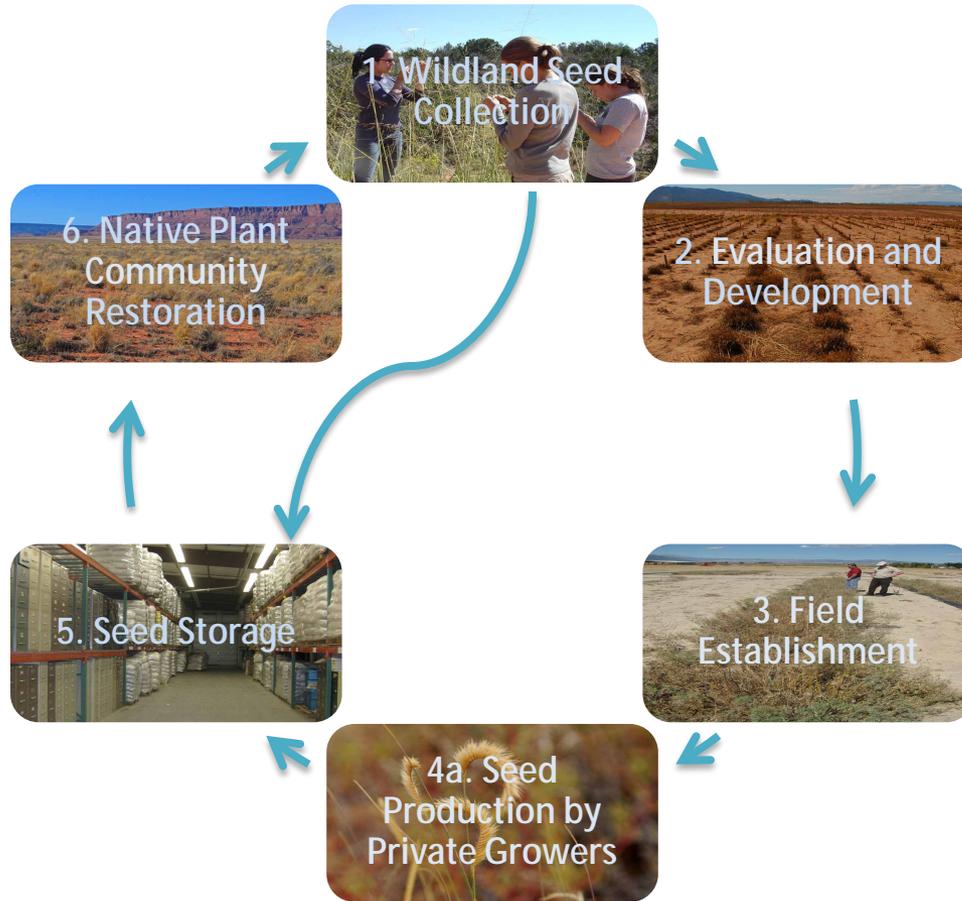
New Views of the Plant Materials Development Program



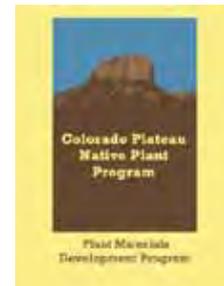
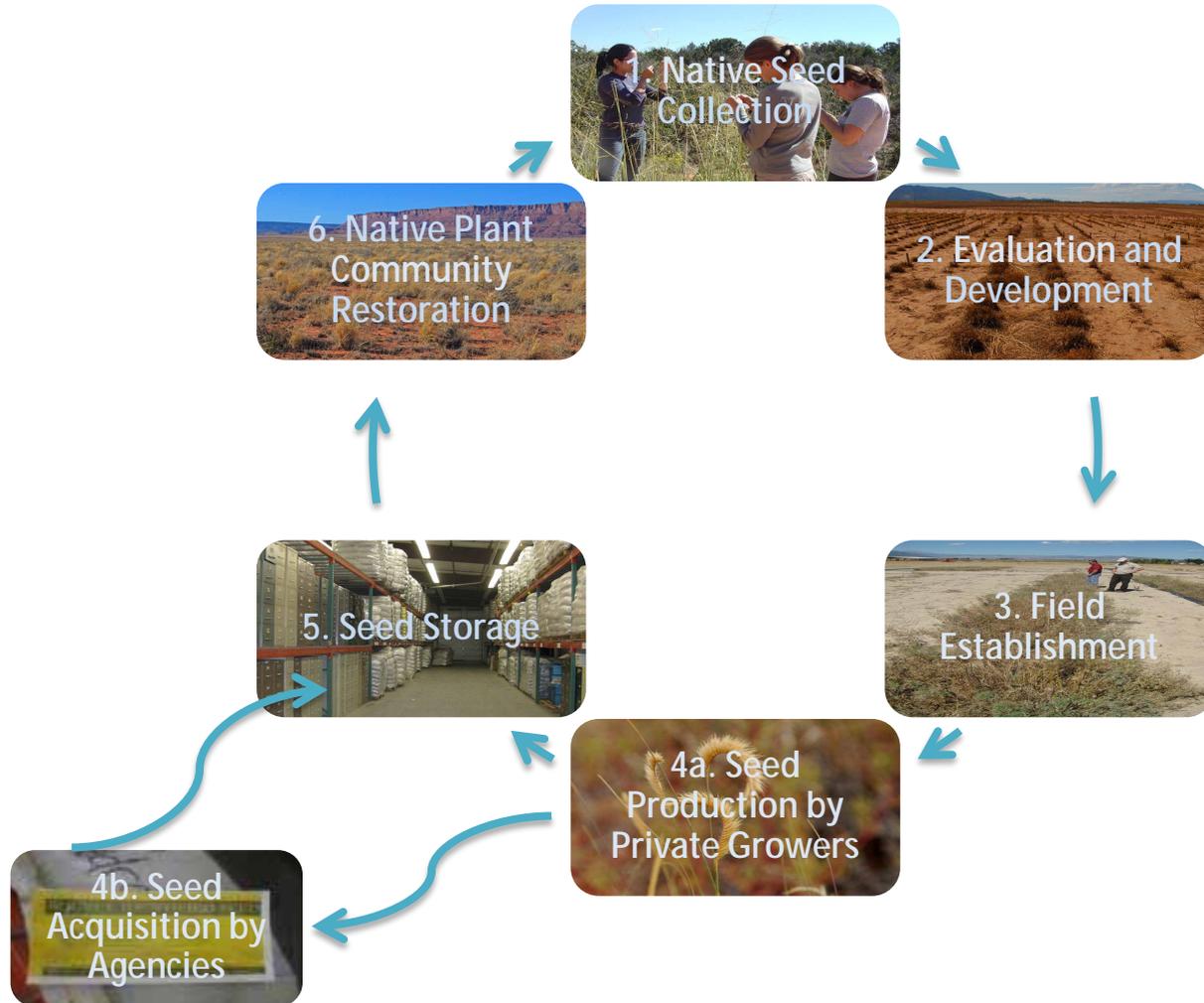
New Views of the Plant Materials Development Program



New Views of the Plant Materials Development Program



New Views of the Plant Materials Development Program



1. Native Seed Collection

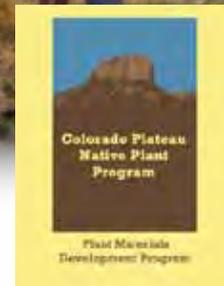
Following Seeds of Success Protocol

In 2010

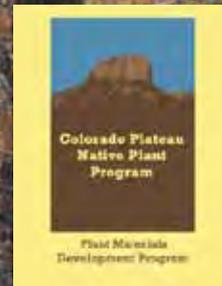
Nearly 200 Collections of 140 Species



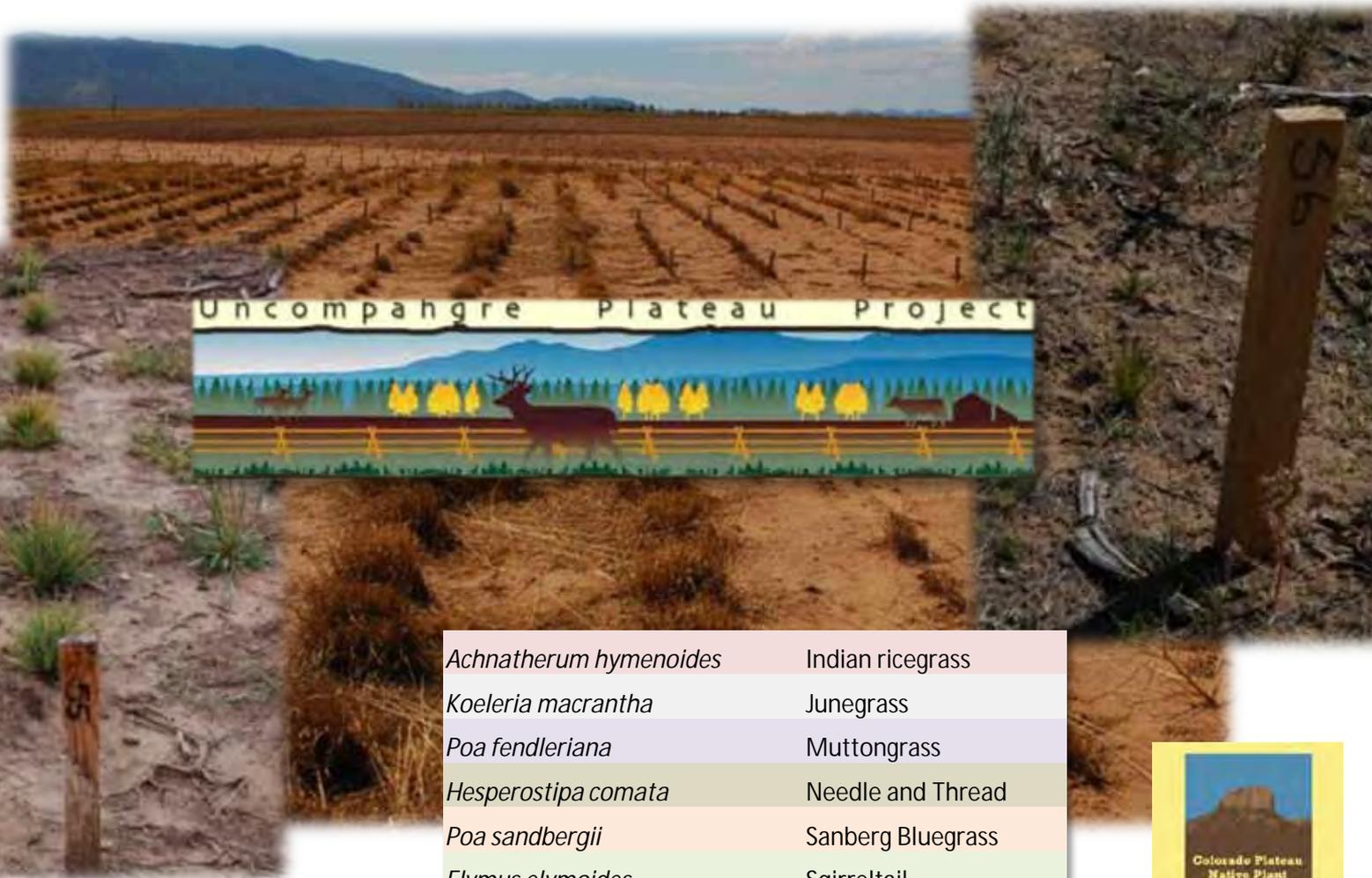
- Ø BLM – Richfield UT Field Office
- Ø BLM – Farmington NM Field Office
- Ø BLM – Colorado State Office
- Ø Red Butte Gardens
- Ø Northern Arizona Native Seed Alliance



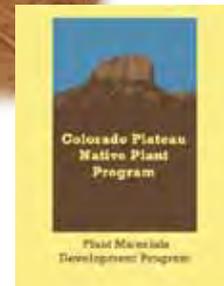
2. Evaluation and Development



2. Evaluation and Development



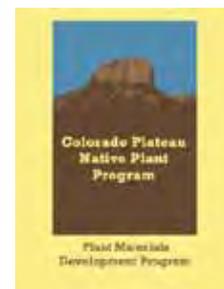
<i>Achnatherum hymenoides</i>	Indian ricegrass
<i>Koeleria macrantha</i>	Junegrass
<i>Poa fendleriana</i>	Muttongrass
<i>Hesperostipa comata</i>	Needle and Thread
<i>Poa sandbergii</i>	Sanberg Bluegrass
<i>Elymus elymoides</i>	Sqirreltail



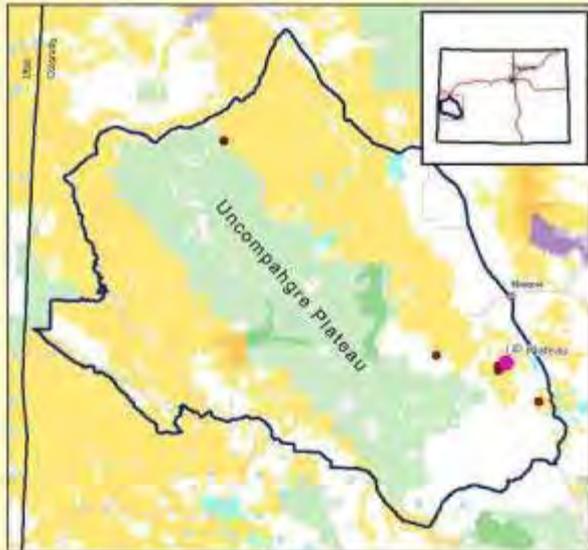
2. Evaluation and Development



RIO MESA CENTER
THE UNIVERSITY OF UTAH



3. Field Establishment



The origin of the 'UP Colorado Plateau' Sandberg bluegrass

The UP delivers thirteen species to commercial growers

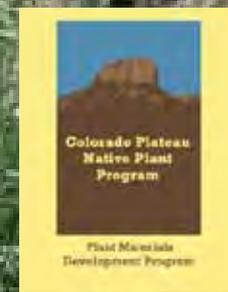
The UP has advanced thirteen species through our program, performing the necessary studies and seed increase process, and they are now in the hands of commercial growers. The UP has selected these species (six grasses and seven forbs) because they are considered key components of native ecosystems in the Colorado Plateau area.

Common Name	Scientific Name	Release name	Elevation (ft)
Grasses			
Basin wildrye	<i>Leymus cinereus</i>	UP Cochetops	8,231
Prairie Junegrass	<i>Koeleria macrantha</i>	UP Sims Mesa	7,595
Muttongrass	<i>Poa fendleriana</i>	UP Colona	7,347
Bobwhitebrush squirreltail	<i>Elymus elymoides</i>	UP Paradox	5,712
Indian ricegrass	<i>Achnatherum hymenoides</i>	White River	5,413
Mountain brome	<i>Bromus marginatus</i>	UP Cold Springs	3,949
Forbs			
Western yarrow	<i>Achillea millefolium lanulosa</i>	UP Dry Fork	8,844
Oregon daisy	<i>Eriogon speciosus</i>	UP Dry Fork Hwy	8,844
Sulfur-flower buckwheat	<i>Eriogonum umbellatum</i>	UP Bum Canyon	7,849
Utah sweetvetch	<i>Hedysarum boreale germinale</i>	UP Uncompahgre	6,813
Dusty penstemon	<i>Penstemon comarrhenus</i>	UP Delta	7,721
Bluestem penstemon	<i>Penstemon cyanocaulis</i>	UP San Miguel	7,175
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	UP Paradox Valley	4,996

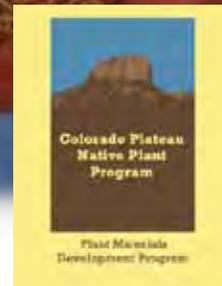
Los Lunas PMC

Upper Colorado
Environmental Plant Center

Uncompahgre Partnership



4. Seed Production by Private Growers



4. Seed Production by Private Growers



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National Native Seed Conference May 17-21, 2010

List Your Seed on NSN

News on Natives

Viewed Free Seed Use on BLM Land

Proposed US Forest Service Native Plants Policy

Plant Database

Genetics Workshop

Willamette Valley Seed Increase Program

Native Plants and their Users

Ecoregions as a resource for restoration

Selecting Seed

About Releases

Etymology

Glossary

SEED IMPORT makes it easy to list your seed for sale

Welcome to the Native Seed Network

The Native Seed Network is a resource for both the restoration community and the native seed industry, providing powerful search tools and information on all aspects of native seed.



Are you looking for native seed?
 Search seed for sale
 Get species recommendations

Are you a seed producer?
 Register to sell your seed using our free marketplace

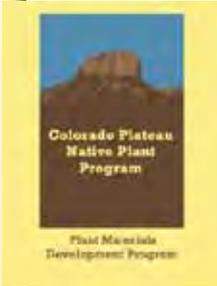


National Native Seed Conference
 Plant Materials Development,
 Production & Use in Habitat Restoration

Snowbird, Utah
 May 17-21, 2010

Looking for seed?
 Select your project area





Colorado Plateau Native Plant Program

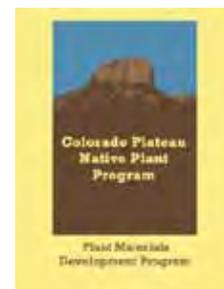
Plant Materials Development Program



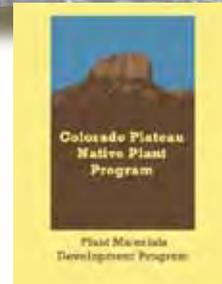
Colorado Plateau species provided to, and available for production through the Uncompahgre Partnership

Scientific Name	Rating	Source ID Name	Amount/Accession Given to Grower(s)
<i>Poa secunda</i>	9	CO Plateau	55 acres/C5-03
<i>Leymus cinereus</i>	8	UP Cochetopa	20 lbs/C2-03
<i>Elymus elymoides</i>	8		10 lbs (uncleaned)/C2-04
<i>Achnatherum hymenoides</i>	8	White River	100 lbs (uncleaned)/ White River
<i>Bromus marginatus</i>	8	UP Cold Springs	20 lbs/C3-04
<i>Poa fendleriana</i>	8	UP Colona	3.5 lbs/C1-03; 12.5 lbs/C1-03; 100 acres
<i>Koeleria macrantha</i>	8	UP Sims Mesa	15 lbs/C1-03 + 2.8 lbs blend of top 4; 16 lbs/C1-03
<i>Penstemon cyanocaulis</i>	8	UP San Miguel	1 lbs/C4-04; 1 lbs/C4-04
<i>Penstemon comarrhenus</i>	8	UP Delta	1 lbs/C1-04; 1 lbs/C1-04
<i>Sphaeralcea coccinea</i>	8	UP Paradox Valley	4 lbs/C1-04
<i>Eriogonum umbellatum</i>	8	UP Burn Canyon	2 lbs /C1-04; 2 lbs/C1-04
<i>Hedysarum boreale</i>	8	UP Uncompahgre	2 lbs/C2-03; 60 acres
<i>Eurybia glauca</i>	7	UP Cimarron	
<i>Heterotheca villosa</i>	7		
<i>Erigeron pumilis</i>	7	UP Log Hill	
<i>Packera multilobatus</i>	7	UP Montrose	
<i>Erigeron speciosus</i>	7	UP Dry Fork Hwy	1 lb (for 1/2 acre)/C1-03
<i>Achillea millefolium</i>	7	UP Dry Fork	3-4 lbs/C1-03
<i>Eriogonum flavum</i>	7		

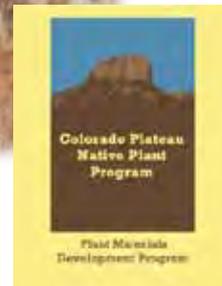
Codes: 9 = Seed is available for purchase; 8 = Species in commercial production; 7 = Ready for commercial release



5. Seed Storage



6. Restoration of Native Plant Communities



Research Program



USGS
science for a changing world

Southwest Biological Science Center

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Welcome to the Southwest Biological Science Center (SBSC), the new home of the U.S. Geological Survey's Biological Resources Discipline

Ecological Diversity in the Southwest

The Southwest is one of the most ecologically rich and diverse areas of the United States. In Arizona alone, ecosystems

USGS
science for a changing world

Colorado Plateau Native Plant Program

Plant Materials Development Program

Dr. Troy Wood, Plant Geneticist
USGS Southwest Biological Science Center

Additional Research Opportunities



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 Ongoing Projects
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 Internship/Fieldwork

Facilities
 Accommodations
 Dining
 Parks and Amenities
 Research Station

Community
 Rio Mesa Fellowship
 Meet Local Artists
 News

RELATED WEBSITES

Rio Mesa Center (formerly Entrada Field Station)

Located along almost three miles of Dolores River in the magnificent red-rock country of southeastern Utah, The University of Utah's Rio Mesa Center provides opportunities for field-based interdisciplinary studies that emphasize ecology and the environment in the broadest sense. Rio Mesa Center is a real-world laboratory where students exercise integrated thinking about humans and their place in biologically complex, but fragile, systems. The Center promotes studies and professional training at the interface of history, anthropology, biology, art and human sustainability around the following themes:

- Water as the Meiblood of the West
- Human history and sustainability on the Colorado Plateau
- Solitude and inspiration

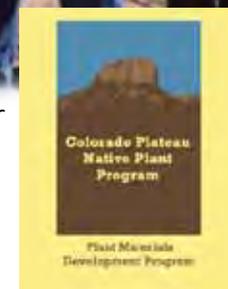
Our facilities are available for research, classes, workshops, retreats and writers- and artists-in-residence.

Watch our 14 minute video about the Center's mission and programs located [here](#).

Also take a virtual 3-D tour of Rio Mesa Center below.



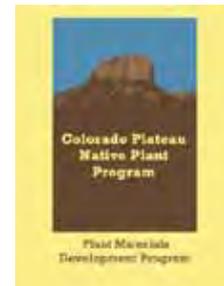
Dr. Sylvia Torti, Director
University of Utah
Rio Mesa Center



Partners

Who is involved with the Program?

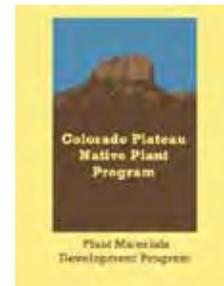
- Federal Agencies
 - Bureau of Land Management
 - U.S. Forest Service
 - U.S. Geological Survey
 - National Park Service
- State Agencies
 - Utah Division of Wildlife Resources
 - Colorado Division of Wildlife



Partners

Who is involved with the Program?

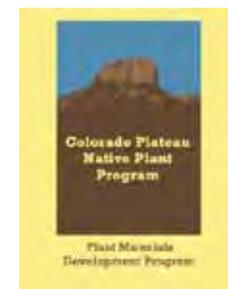
- Universities
 - University of Utah
 - Southern Utah University
 - Northern Arizona University
 - Fort Lewis College (Colorado)



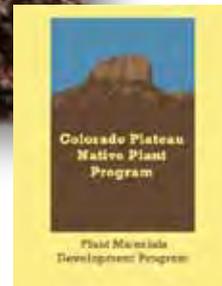
Partners

Who is involved with the Program?

- Non-Government Organizations
 - Uncompahgre Partnership
 - The Nature Conservancy
 - The High Lonesome Ranch
 - Northern Arizona Native Seed Alliance
 - Museum of Northern Arizona
 - The Tamarisk Coalition
 - Rim to Rim Restoration



Challenges



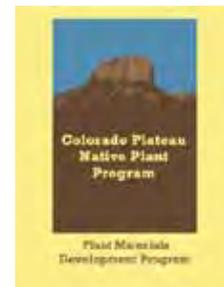
Challenges

Who is in Charge?

What are the Priorities?

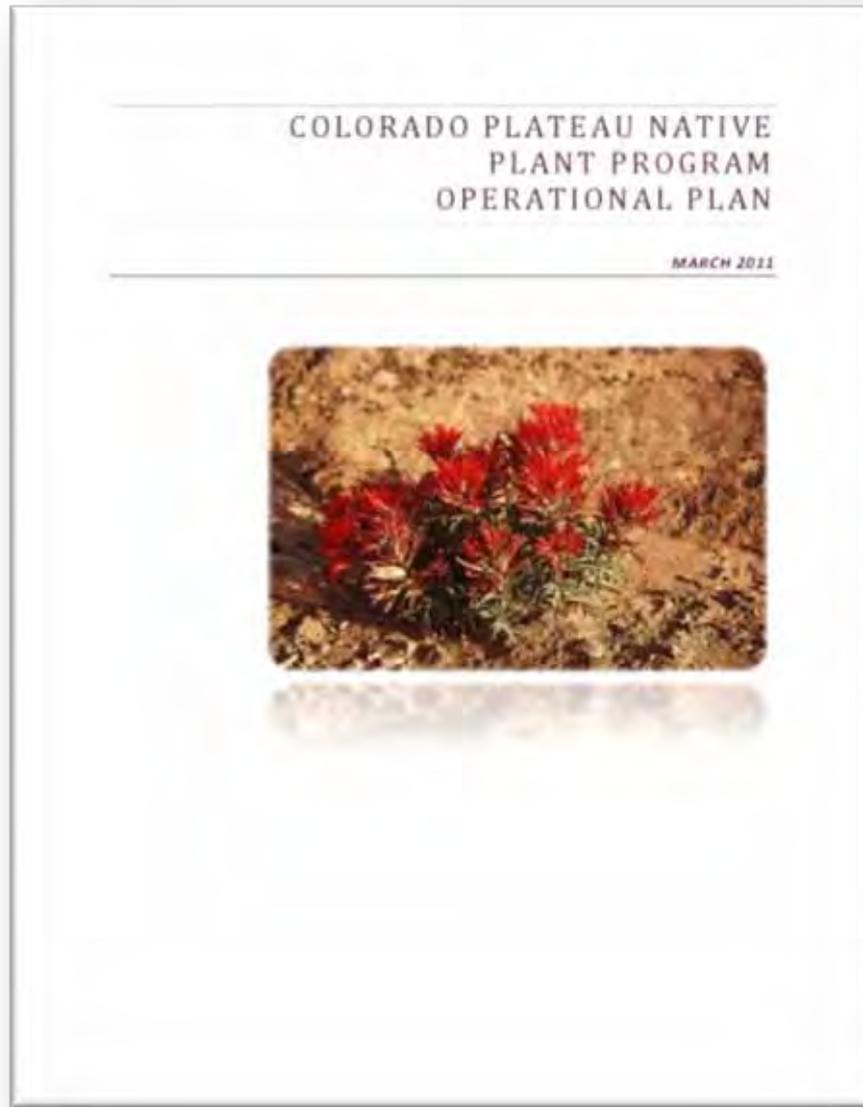
How Are Things Going to Get Done?

Who Is Going to Do What?



Operational Plan

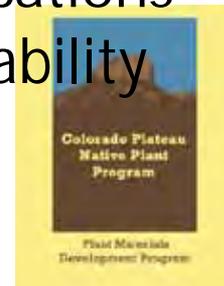
Providing Direction
and Guidance
beyond the Five-
Year Strategy and
Action Plan.



Operational Plan

Providing Direction and Guidance beyond the Five-Year Strategy and Action Plan.

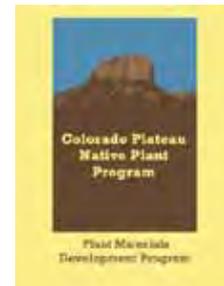
- KEY FOCUS AREAS
 - Focus Area 1: Collection
 - Focus Area 2: Evaluation and Development
 - Focus Area 3: Field Establishment
 - Focus Area 4: Seed Production by Private Growers
 - Focus Area 5: Storage
 - Focus Area 6: Restoration of Native Plant Communities
 - Focus Area 7: Communications
 - Focus Area 8: Market Stability



Operational Plan

Providing Direction and Guidance beyond the Five-Year Strategy and Action Plan.

- ROLES AND RESPONSIBILITIES
 - Partners
 - Committees
 - Working Groups
- PROGRAM COORDINATION AND MANAGEMENT
- PROGRAM GOALS
 - Short Term (1 yr) Goals
 - Mid Term (2 – 5 yr) Goals
 - Long Term (5+ yr) Goals
- PROGRAM EVALUATION
- BUDGET STRATEGY



COLORADO PLATEAU NATIVE PLANT PROGRAM MAKING PROGRESS

