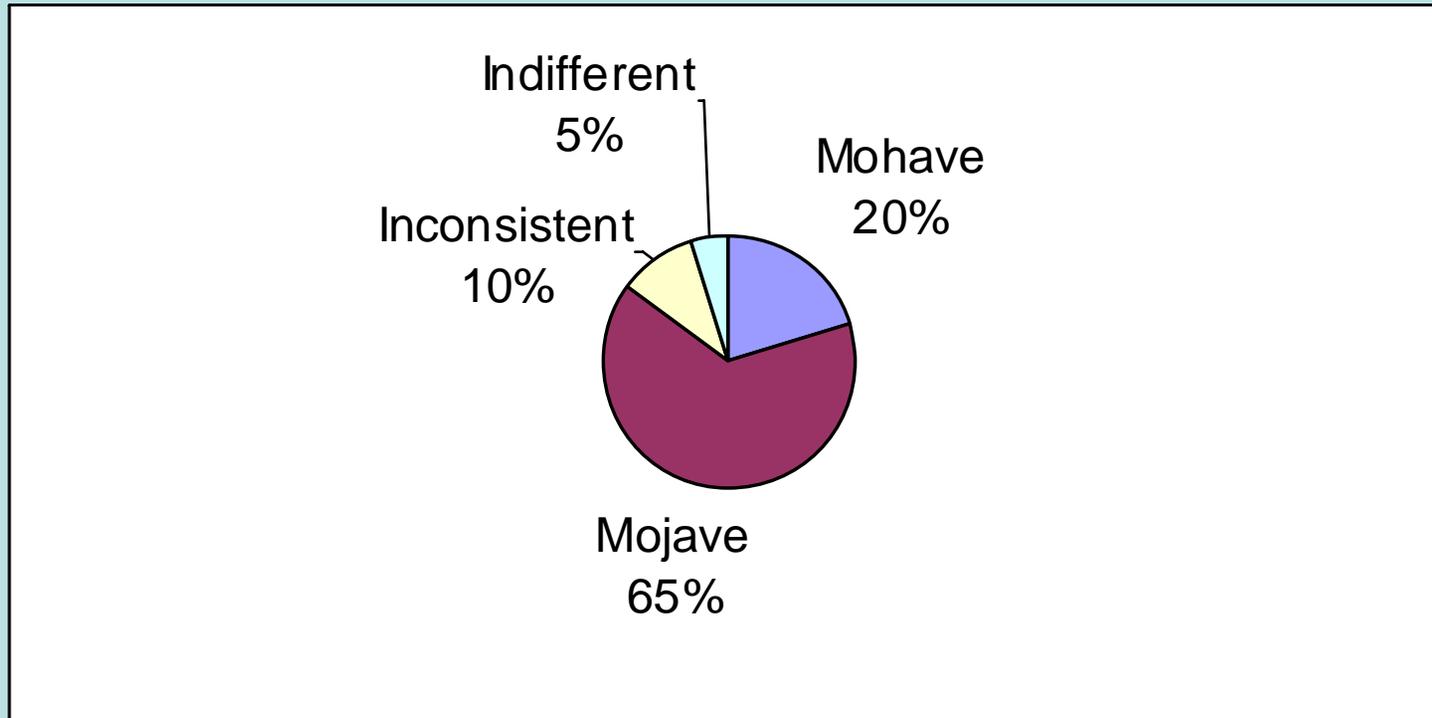
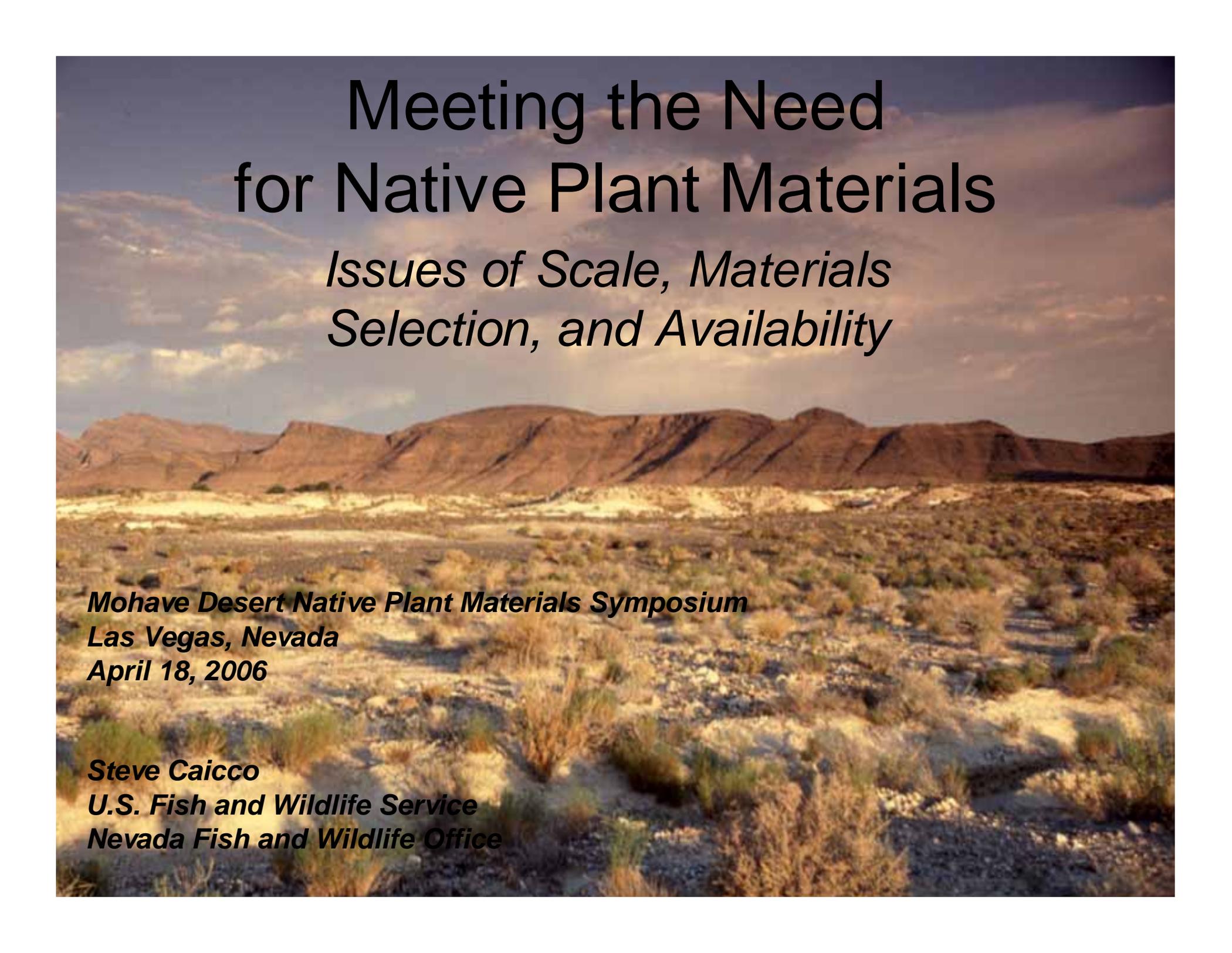


Mohave or Mojave?



mo·ha·ve also **mô·ja·ve** \mō'hävē, -häv-, -vi\ *n, pl mohave or mohaves also mojave or mojaves usu cap* [Mohave *hamakhava* three mountains; fr. the peaks near Needles, California, regarded by the Mohave as the center of their territory] **1 a** : an Indian people of the Colorado river valley in Arizona, California, and Nevada **b** : a member of such people **2** : a Yuman language of the Mohave people

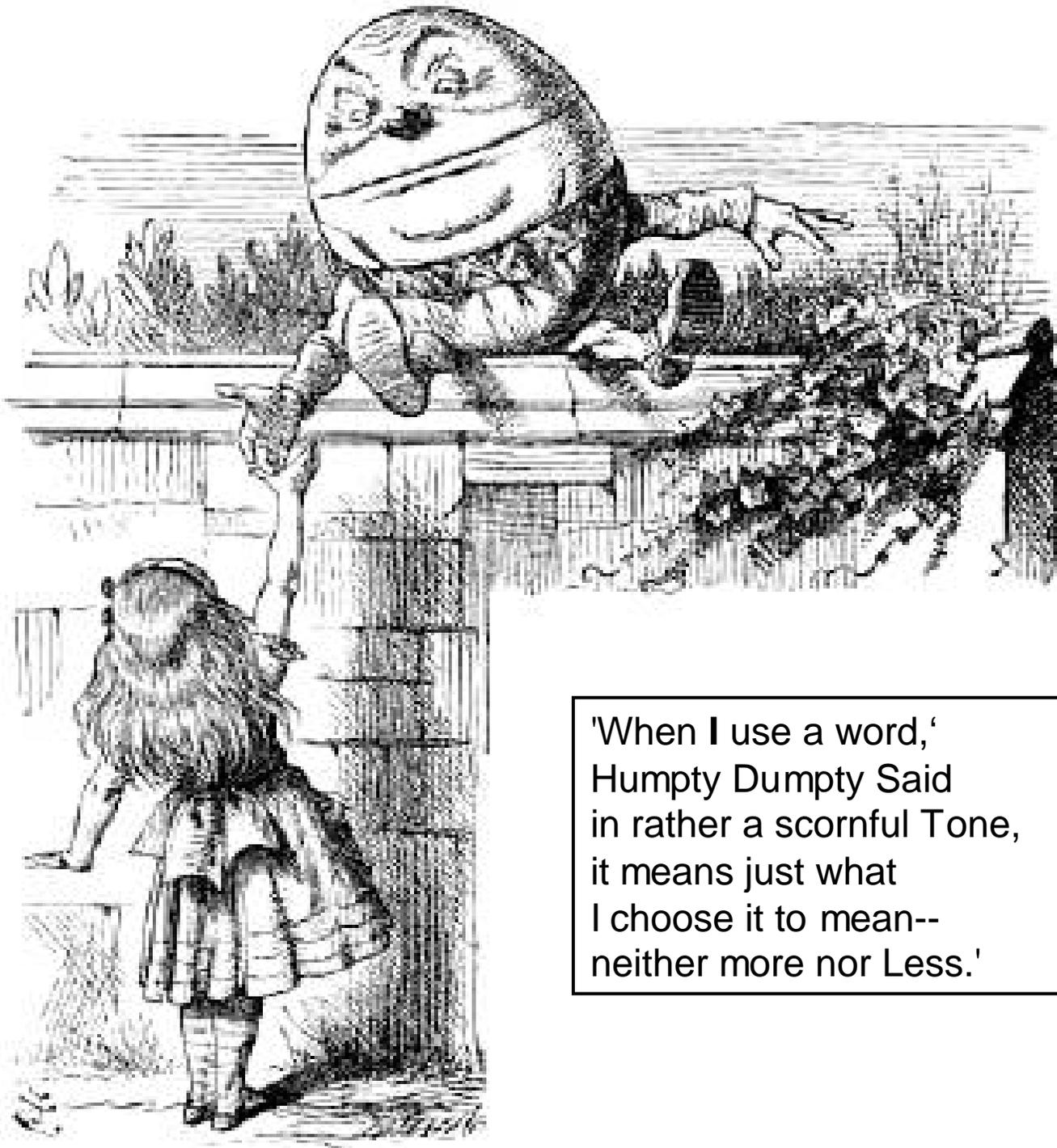


Meeting the Need for Native Plant Materials

*Issues of Scale, Materials
Selection, and Availability*

***Mohave Desert Native Plant Materials Symposium
Las Vegas, Nevada
April 18, 2006***

***Steve Caicco
U.S. Fish and Wildlife Service
Nevada Fish and Wildlife Office***



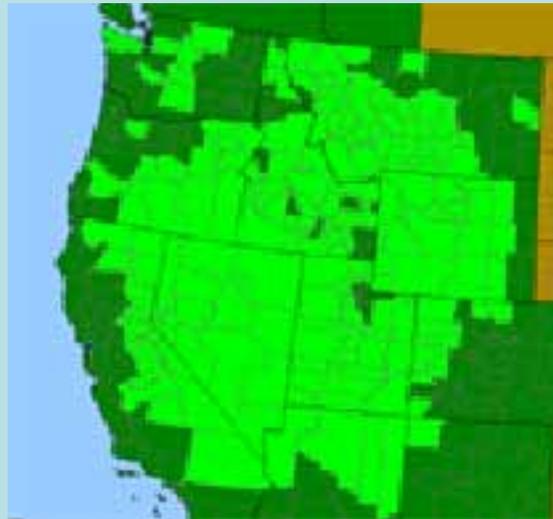
'When I use a word,'
Humpty Dumpty Said
in rather a scornful Tone,
it means just what
I choose it to mean--
neither more nor Less.'

Native Range?



E. o. var. ovalifolium

Eriogonum ovalifolium



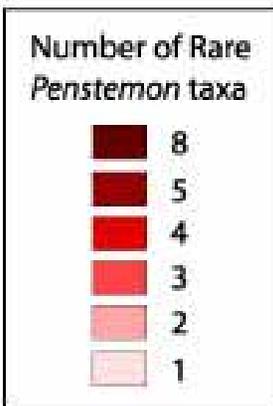
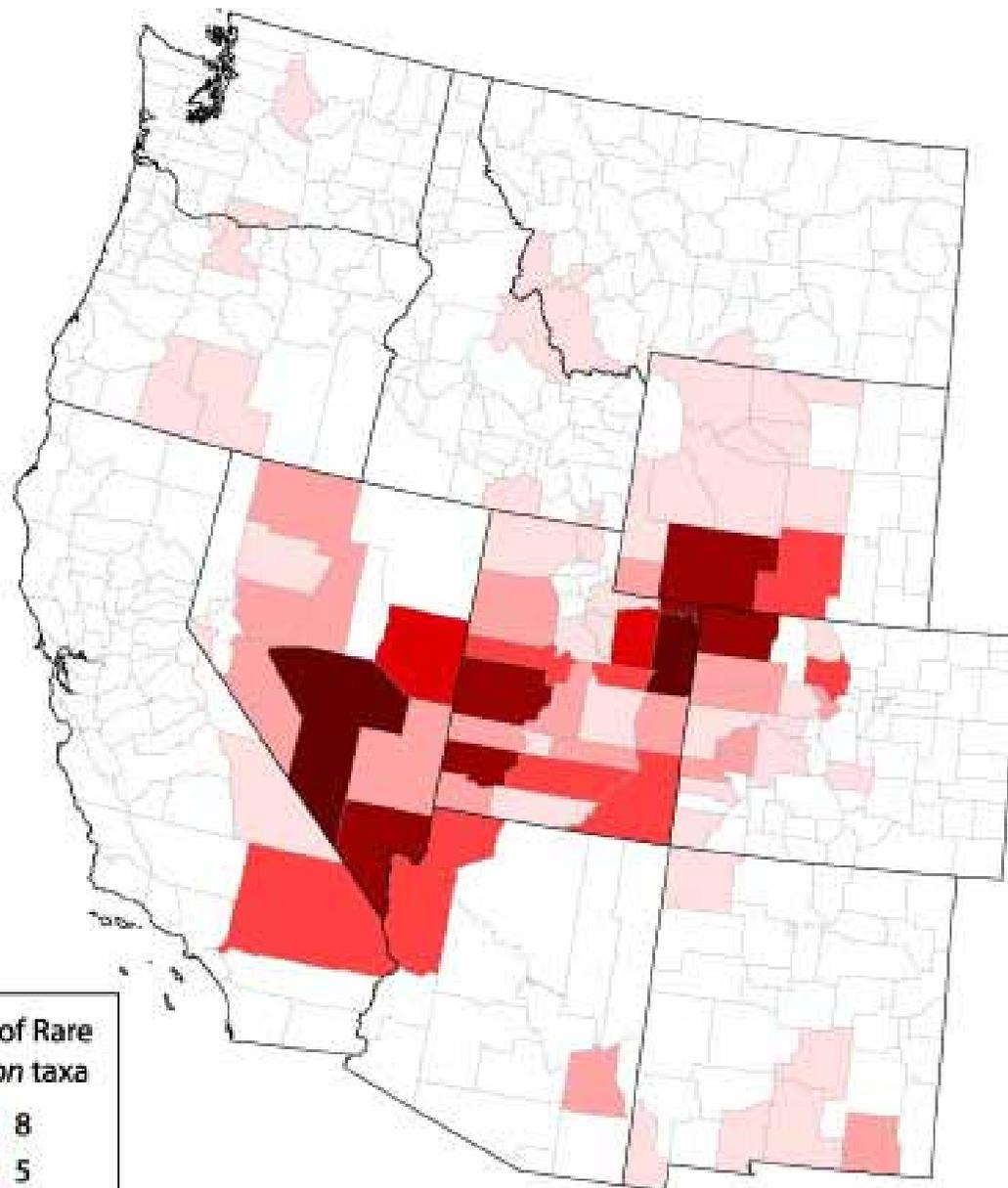
E. o. var. williamsiae

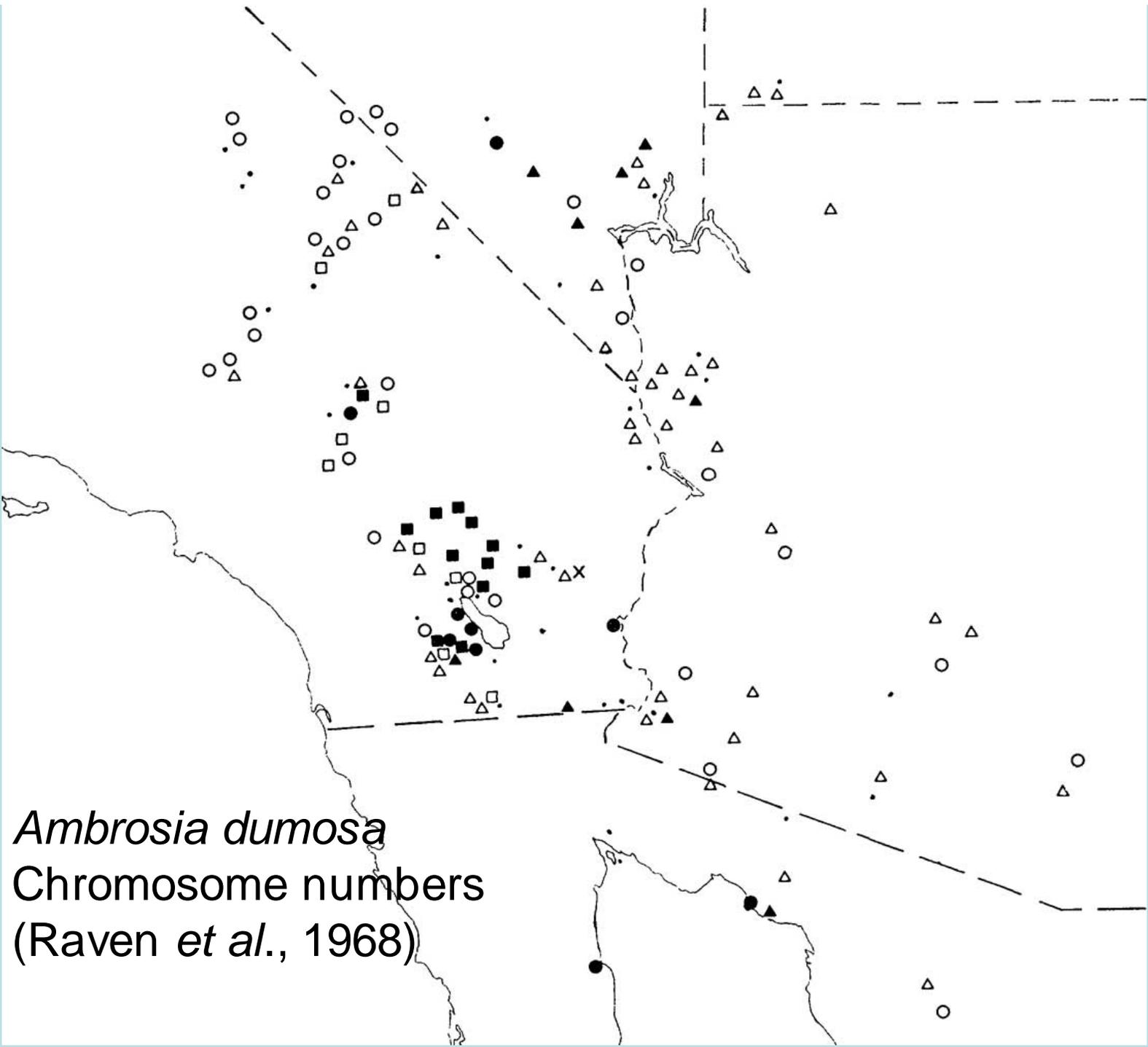


E. o. var. vineum



E. o. var. caelisticum

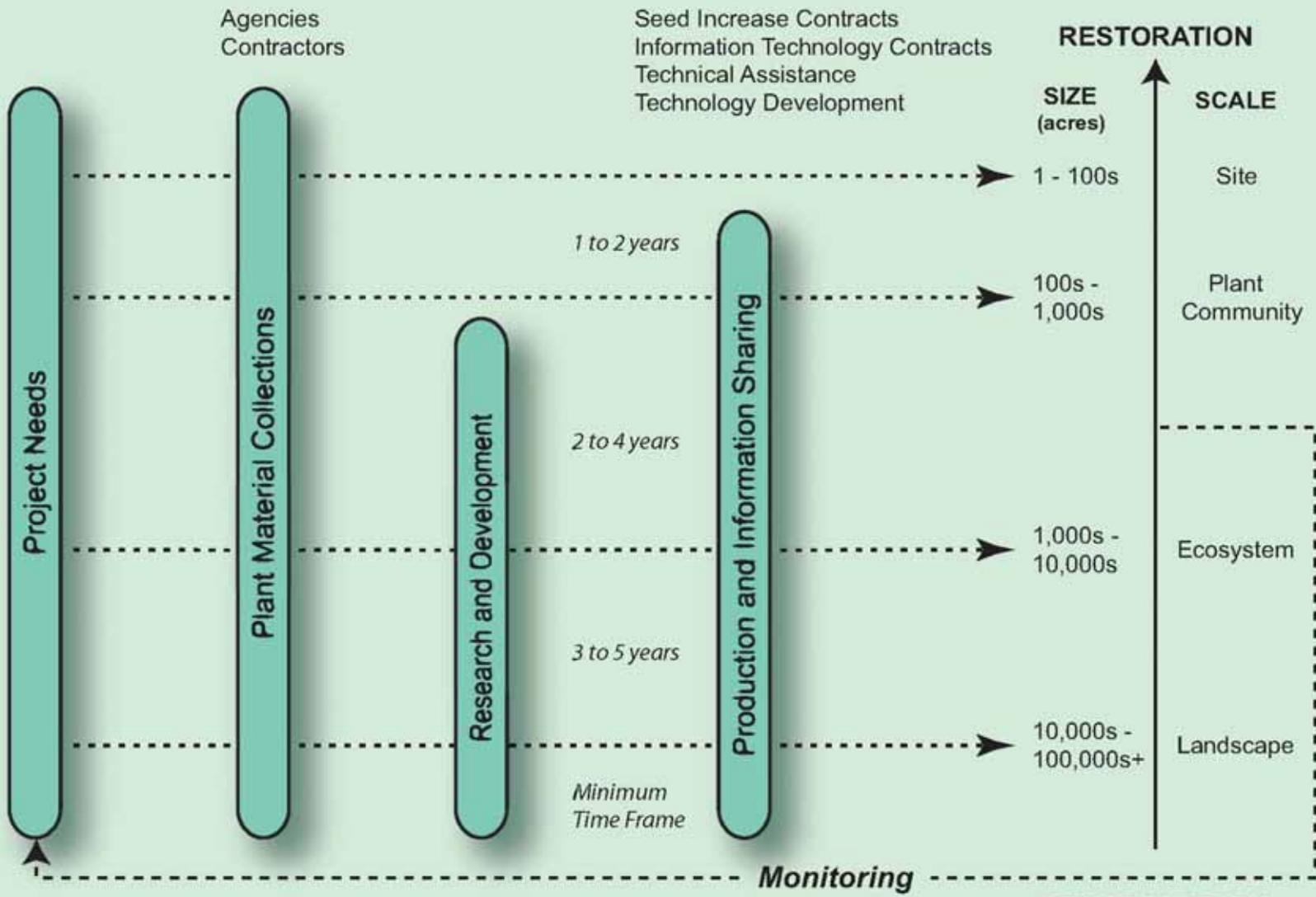




Ambrosia dumosa
Chromosome numbers
(Raven *et al.*, 1968)

“The diploids can be separated from the polyploids on. . .pollen size and pore number . . . However, no other trait, be it morphological, ecological, or phenological, would be consistently associated with the two resulting groups.”

Raven et al., 1968



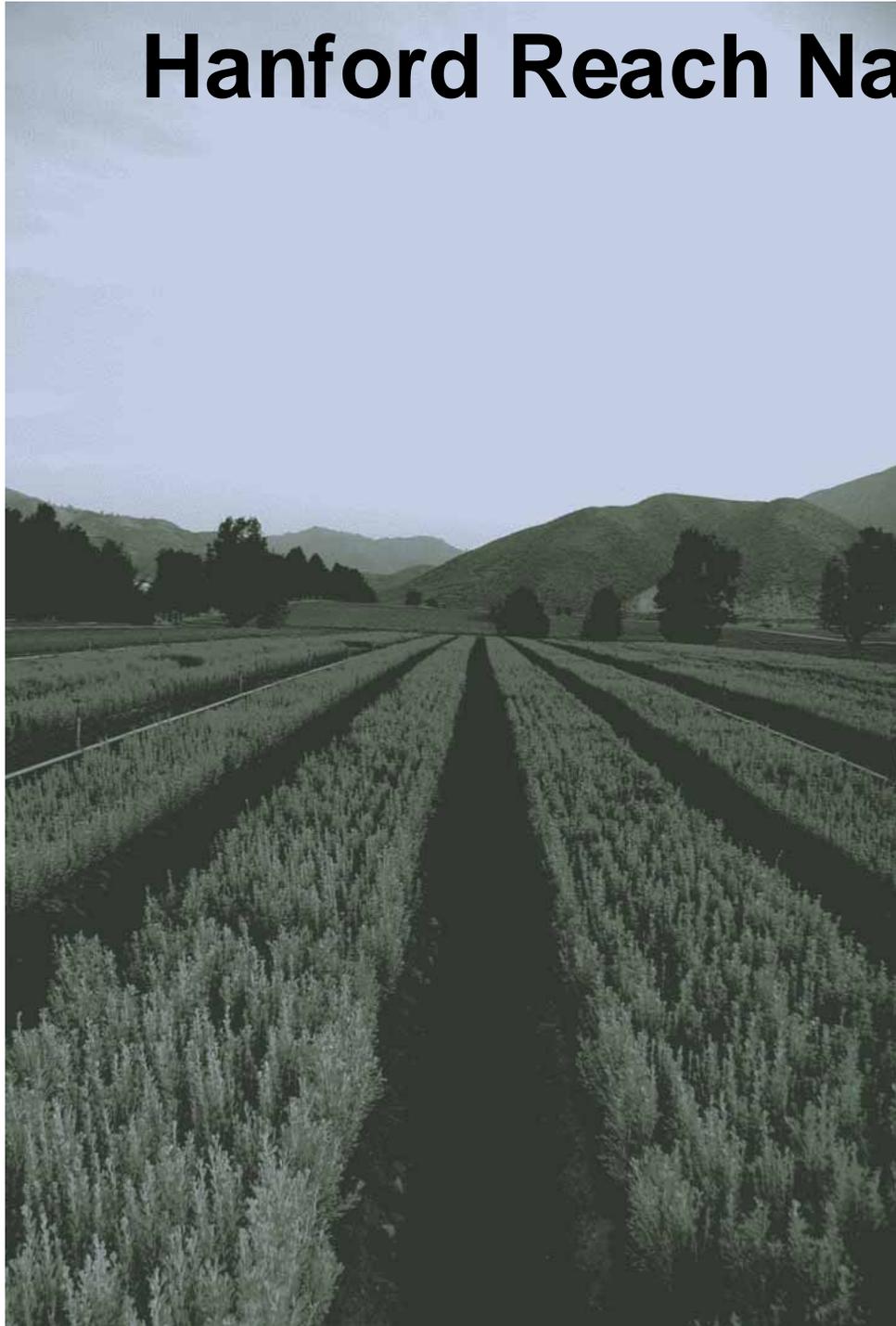
BLM Districts
 Forest Service Districts
 National Parks
 Fish & Wildlife Refuges
 State Wildlife Departments
 Other Agencies

NRCS Plant Materials Centers
 Forest Service Nurseries and Labs
 Agricultural Research Service
 State and Tribal Nurseries

REHABILITATION



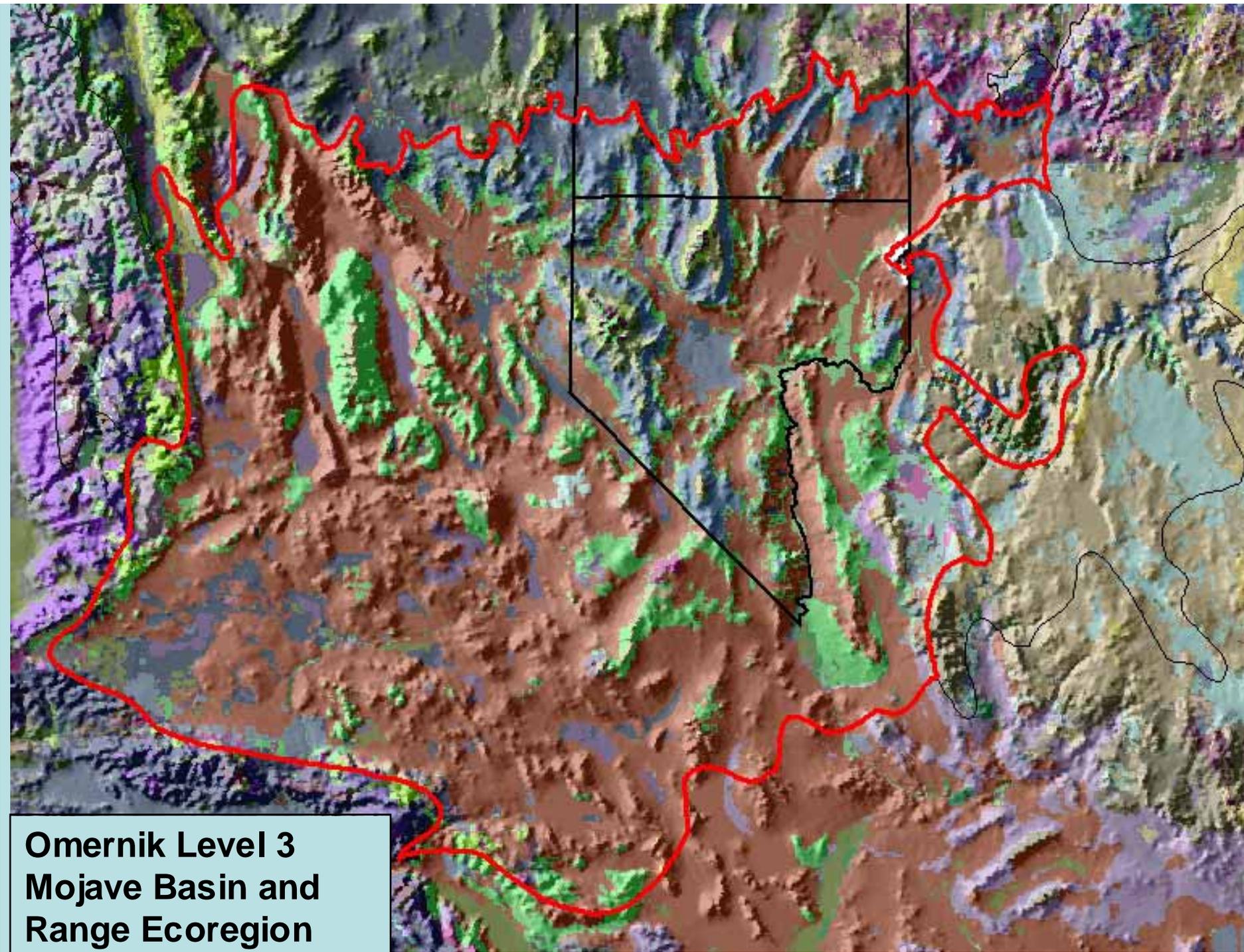
Hanford Reach National Monument



- ❖ 163,000 acre 2004 wildfire (25,000 ac sagebrush)
- ❖ Poor seedling establishment, so tubelings and bare root plants used
- ❖ 3,145 acres planted with shrubs to date
- ❖ 13-15,000 plants/day at 410 plants/ac, or ~ 30-35 ac/day

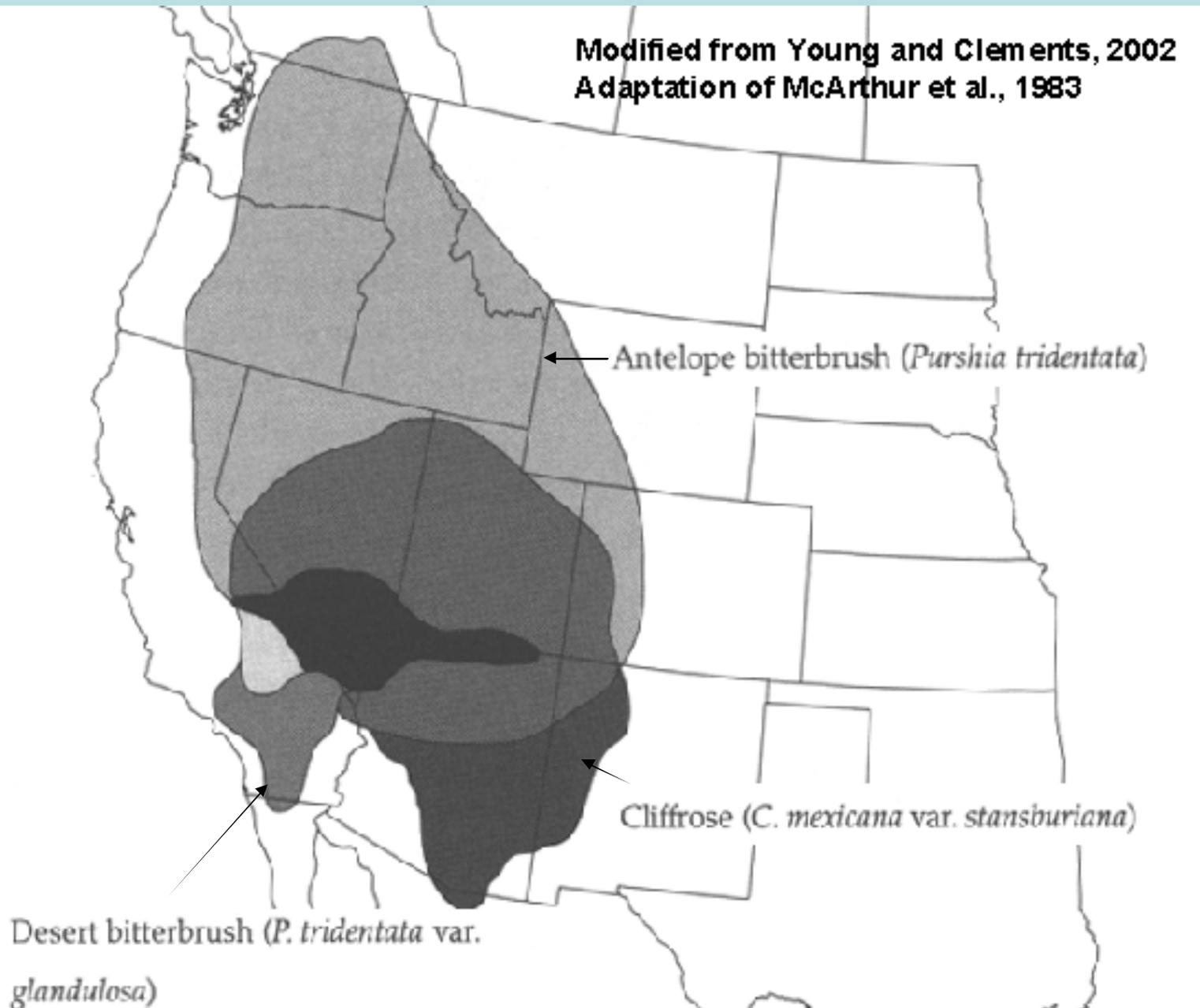


- ❖ Success rates ranged from 10 to 36% and varied by habitat.
- ❖ Tubelings fared better than bare root seedlings but were more expensive.
- ❖ Non-mycorrhizal hydrogel treated bare root plants had greater than 70% survival.
- ❖ Mycorrhizal hydrogel treated bare root plants had less than 15% survival.

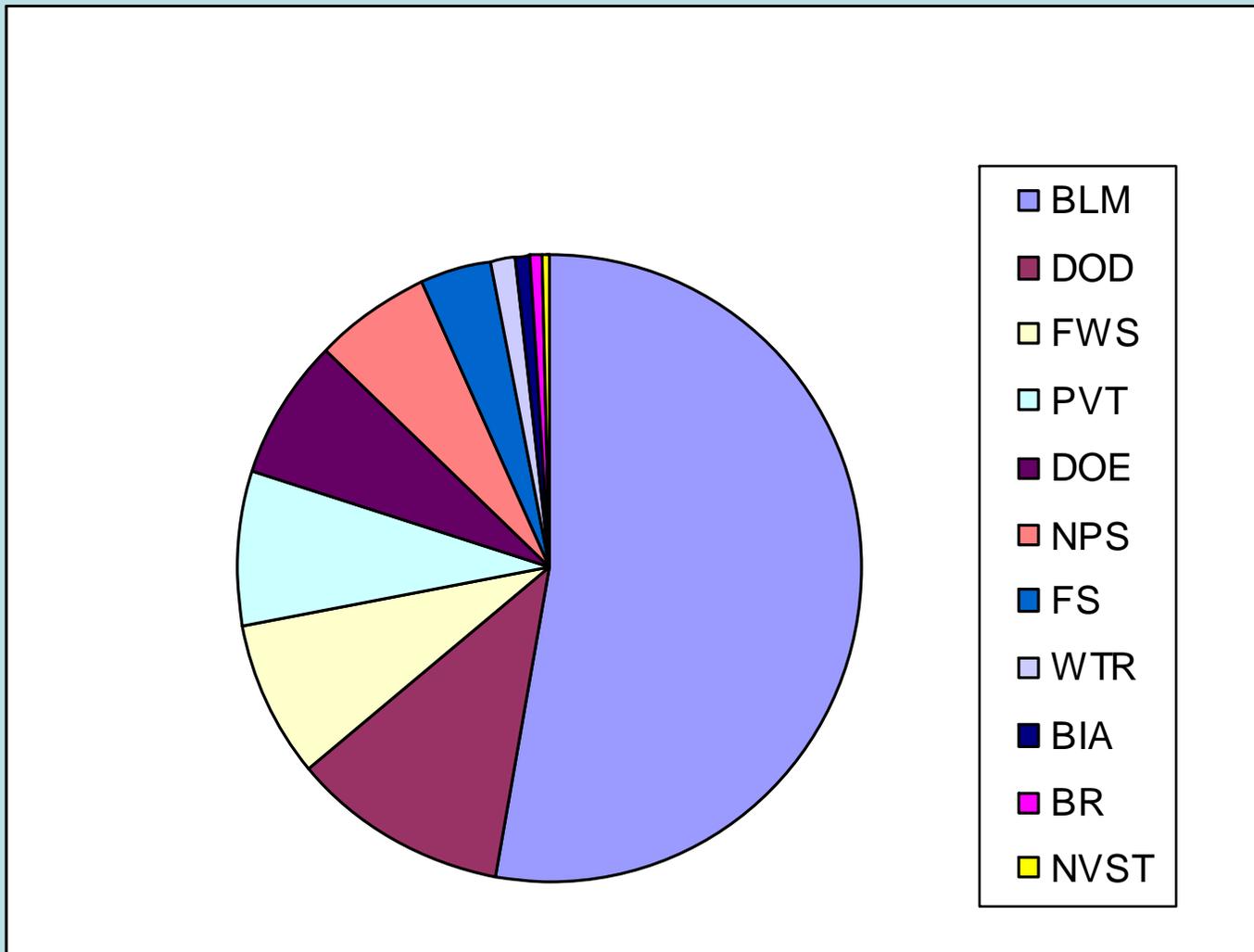


**Omernik Level 3
Mojave Basin and
Range Ecoregion**

Modified from Young and Clements, 2002
Adaptation of McArthur et al., 1983



Land Ownership in the Mohave Desert of Nevada

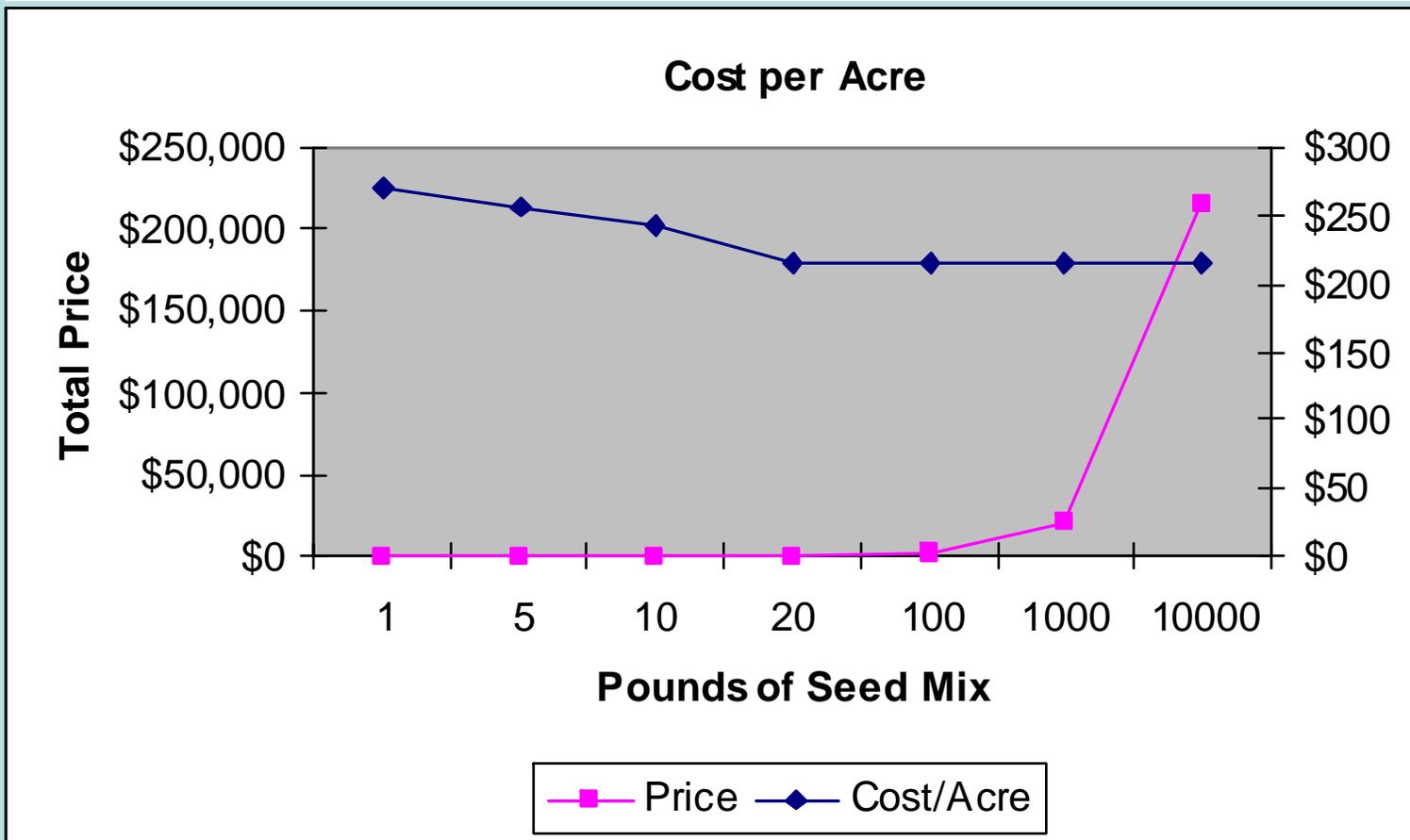


SOUTHWEST DESERT

18 mostly native and naturalized species selected for their low water requirement and heat tolerance. Grows to about 3'.

Contains: Dwarf Plains Coreopsis, African Daisy, California Poppy, Tidy Tips, Globe Gilia, Bird's Eyes, Blue Flax, Arroyo Lupine, Blazing Star, California Blue Bell, Mexican Hat, Showy Evening Primrose, Mountain Garland, Indian Blanket, Five Spot, White Evening Primrose, Moss Verbena and Desert Marigold.

SWF851 Packet (approx. 2,700 seeds, covers 27 sq ft)**\$1.99/ea**
SWF850 .25 lb**\$10.95** **SWF2170** 1 lb **\$26.95/lb**



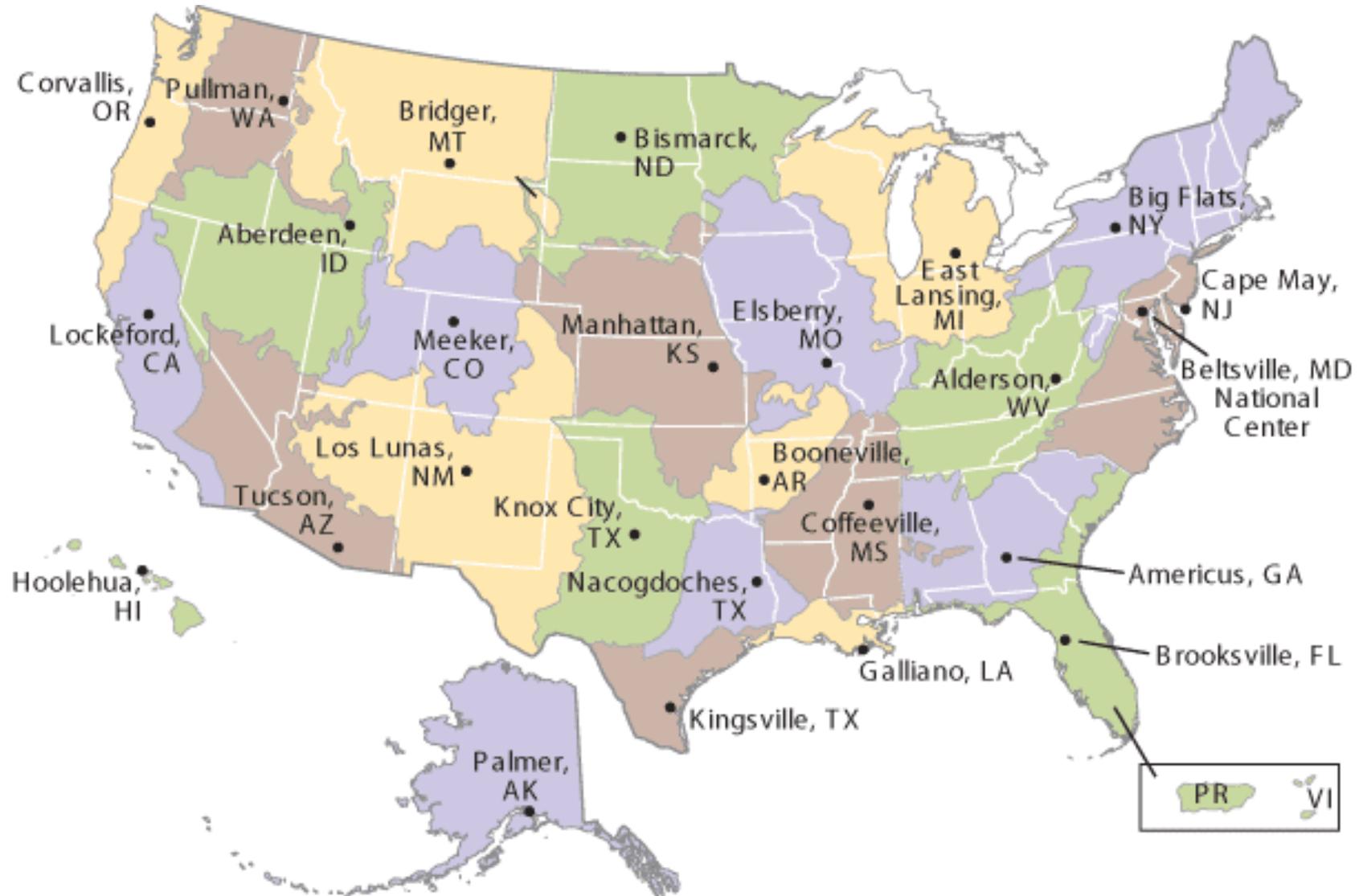


Remember that the best way to make a living in the wholesale nursery business is to deal with large numbers of a limited number of items.

Tony Avent

So You Want to Start A Nursery

Natural Resources Conservation Service Plant Materials Centers





FOUNDATION SEED



KIND CRISTED WHEATGRASS

VARIETY DOUGLAS

CERT. NO. G-1293, LOT D93A

MARKING: PVP LICENSED VARIETY

MEMBER OF ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

TESTED CLASS SEED



Species Name
Common Name
County/State/Elevation
Genoplasm ID/Gen.
Cert. # WC-454
Slope: North, 3-19 deg.

Perkins Tridentata
Antelope Bitterbrush
Sagepole/Utah/5500-6000 ft.
Fountain Green/OO
Lot # P7011
Soils: Generally Clay Loam

The seed in this container, with label properly affixed thereto, was produced in compliance with the Seed Certification Requirements and Standards established by the Utah Crop Improvement Association for the TESTED CLASS of certified seed. Compliance (any warranty, expressed or implied) is based on and limited to representative field inspections and seed sample analysis. This tag must be accompanied by a seed analysis label to comply with state and federal seed laws.

Member of Association of Official Seed Certifying Agencies

REGISTERED SEED



KIND WHEAT

VARIETY PROMONTORY

CERT. NO. M-264, LOT DM-2989

UTAH REGISTERED SEED

The seed in this container, with label properly affixed thereto, was produced in compliance with the Seed Certification Requirements and Standards established by the Utah Crop Improvement Association for the REGISTERED class of certified seed. Compliance (any warranty, expressed or implied) is based on and limited to the determination of seed source, and the results of representative field inspections and seed sample analysis.

This tag must be accompanied by a seed analysis label to comply with state and federal seed laws.

CONTACT WITH SALES REPRESENTATIVE OF SEED OFFICE.

UTAH CROP IMPROVEMENT ASSOCIATION, Utah Agricultural Experiment Station, Logan, Utah 84302-8855

MEMBER OF ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

SELECTED CLASS SEED



Species Name
Common Name
County/State/Elevation
Genoplasm ID/Gen.
Cert. # S-273
Slope: N, 0-5 deg.

Artemisia tridentata wyomingensis
Wyoming Min. Big Sagebrush
Salt Lake/Utah/4700 ft.
Gordon Creek/O1 "Natural"
Lot # OC-315
Soils: loamy sand

The seed in this container, with label properly affixed thereto, was produced in compliance with the Seed Certification Requirements and Standards established by the Utah Crop Improvement Association for the SELECTED CLASS of certified seed. Compliance (any warranty, expressed or implied) is based on and limited to representative field inspections and seed sample analysis. This tag must be accompanied by a seed analysis label to comply with state and federal seed laws.

Member of Association of Official Seed Certifying Agencies

CERTIFIED SEED



KIND BASSIN WILDRYE

VARIETY HIGHRISE

CERT. NO. G-14, LOT HFG 56-1

UTAH CERTIFIED SEED

The seed in this container, with label properly affixed thereto, was produced in compliance with the Seed Certification Requirements and Standards established by the Utah Crop Improvement Association for the Certified class of certified seed. Compliance (any warranty, expressed or implied) is based on and limited to the determination of seed source, and the results of representative field inspections and seed sample analysis.

This tag must be accompanied by a seed analysis label to comply with state and federal seed laws.

UTAH CROP IMPROVEMENT ASSOCIATION, Utah Agricultural Experiment Station, Logan, Utah 84302-8855

MEMBER OF ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

SOURCE IDENTIFIED SEED



Species Name
Common Name
County/State/Elevation
Genoplasm ID/Gen.
Cert. # WC-124
Slope: South, 20+

Artemisia tridentata nevadensis
Min. Big Sagebrush
Utah/Wyoming/6500-7000 ft.
—P00
Lot # 941
Soils: Medium (Sandy Loam)

INTERAGENCY: ORIGIN WYOMING

The seed in this container, with label properly affixed thereto, was produced in compliance with the Seed Certification Requirements and Standards established by the Utah Crop Improvement Association for the SOURCE IDENTIFIED CLASS of certified seed. Compliance (any warranty, expressed or implied) is based on and limited to representative field inspections and seed sample analysis. This tag must be accompanied by a seed analysis label to comply with state and federal seed laws.

Member of Association of Official Seed Certifying Agencies

**Working
Groups**

[Alien Plant](#)

[Medicinal Plant](#)

[Restoration](#)



Plant Conservation Alliance

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[PCA Meeting Announcements](#) | [PCA Meeting Summaries](#) |
[Plant Conferences and Symposia](#) | [Celebrating 10 Years of PCA](#) |
[1999 Action Agenda Meeting](#)

On-Line Communication

[Main PCA List](#) | [Alien Plant Working Group List](#) |
[Medicinal Plant Working Group List](#) | [Restoration Working Group List](#) |
[Seeds of Success List](#)



Projects

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[Restoration Directory Project](#) | [Weeds Gone Wild](#)

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[United States \(Native Plant Information Network\)](#) |
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[Idaho](#) | [Illinois](#) | [Maine](#) | [Maryland](#) | [Southeastern Pennsylvania](#) |
[Central Texas](#) | [Virginia](#) | [Western Washington](#)

Publications & Articles

[2002 Native Plant Materials Report to the Congress](#) |

Cooperative Ecosystems Studies Units (CESUs)

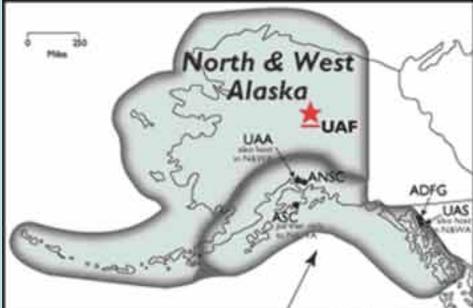
Federal land management, environmental, and research agencies, along with the nation's universities, share several science-based goals in the 21st century: high-quality science, usable knowledge for resource managers, responsive technical assistance, continuing education, and cost-effective research programs.

Cooperative Ecosystem Studies Units Network



- Participating Federal Agencies:**
 Bureau of Land Management
 Bureau of Reclamation
 Department of Defense
 Department of Energy
 Environmental Protection Agency
 National Aeronautics and Space Administration
 National Marine Fisheries Service
 National Park Service
 National Fish and Wildlife Service
 US Geological Survey
 USDA Agricultural Research Service
 USDA Forest Service
 USDA Natural Resources Conservation Service

The Cooperative Ecosystem Studies Units Network



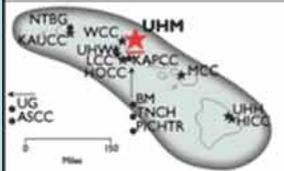
Pacific Northwest

Californian



- CA Californian CESU
- CW Chesapeake Watershed CESU
- CP Colorado Plateau CESU
- DS Desert Southwest CESU
- GB Great Basin CESU
- GLNF Great Lakes - Northern Forest CESU
- GP Great Plains CESU
- GC Gulf Coast CESU
- HPI Hawaii - Pacific Islands CESU
- N&WA North & West Alaska CESU
- NAC North Atlantic Coast CESU
- PNW Pacific Northwest CESU
- PSAC Piedmont - South Atlantic Coast CESU
- RM Rocky Mountains CESU
- SFC South Florida - Caribbean CESU
- SA Southern Appalachian Mountains CESU
- UMMV Upper & Middle Mississippi Valley CESU

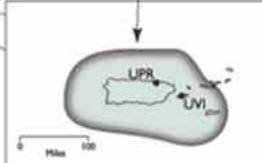
The Hawaii - Pacific Islands region also encompasses U.S. Territories and Commonwealths.



Hawaii - Pacific Islands

Boundaries are approximate.
 Abbreviations are explained on the reverse side.
 Prepared by J.E. McKendry, September 2004.

- ★ Host University
- ★ Host University (administrative lead for system)
- ★ Host University (campus in system)
- Partner University or Institution



NATIVEPLANTS PROPAGATION PROTOCOL DATABASE

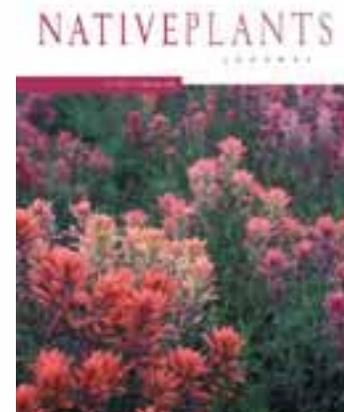
Search Protocol Database

To search continental US, Hawaii, Canada, Mexico, and US Virgin Islands,
[please click here](#)

To search Hawaii and other Pacific Islands,
[please click here](#)

Please fill in the blanks below. For best results, start fairly broad (so enter text in only a couple of fields) and narrow your search if that returns too many results.

Name:	Genus: <input type="text"/>
	Species: <input type="text"/>
	Type in or choose from the list below <input type="text"/>
Family Scientific Name:	<input type="text"/>
	Type in or choose from the list below <input type="text"/>
State/Province:	No Preference <input type="text"/>
Product type:	No Preference <input type="text"/>
Organization:	No Preference <input type="text"/>
Company/Nursery Name:	<input type="text"/>
<input type="button" value="Run Search"/> <input type="button" value="Clear Form"/>	



www.nativeplantnetwork.org

JOURNAL

PROPAGATION DATABASE

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[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](#)

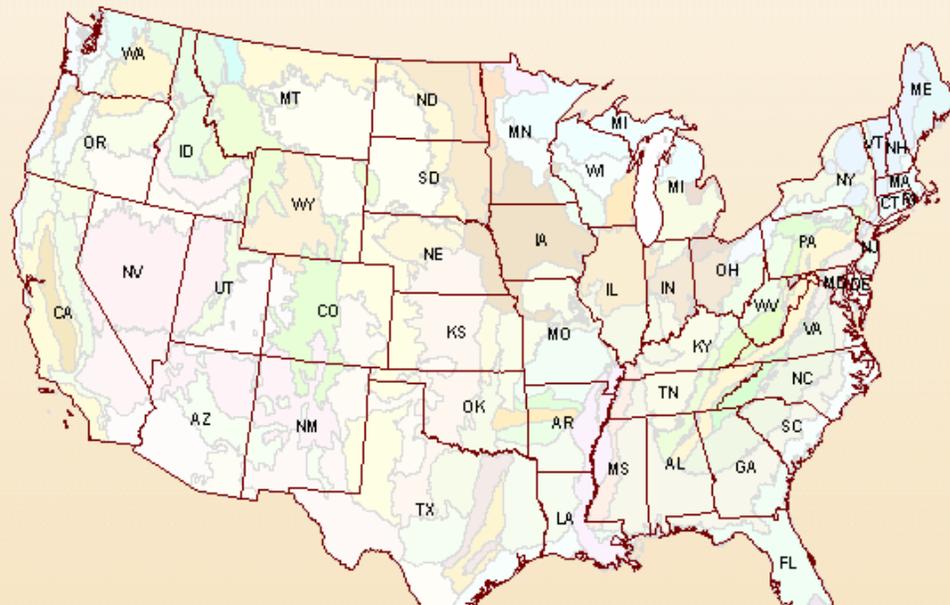
[Get species recommendations](#)

Are you a seed producer?

You can sell your native seed using our free marketplace (sellers must [register](#)).

Ecoregion Map

Select your project area



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Ecoregions in Nevada

Select your project ecoregion:



or

Species recommendations are arranged by project [ecoregion](#).

www.nativeseednetwork.org



87 -- Native Grass Seed and Forb Production

- [Solicitation 01](#) - Posted on Mar 07, 2006
-

General Information

Document Type: Presolicitation Notice
Solicitation Number: R6-14-06-35019
Posted Date: Feb 21, 2006
Original Response Date: Apr 07, 2006
Current Response Date: Apr 07, 2006
Original Archive Date:
Current Archive Date:
Classification Code: 87 -- Agricultural supplies
Set Aside: Partial Small Business

87 -- Native Grass Seed and Forb Production

- ❖ Indefinite-delivery, indefinite-quantity contract.**
- ❖ Forest Service in Oregon and Washington (includes BLM).**
- ❖ 22 native grass and forb seed species.**
- ❖ ~ 8 awards, at least 4 with Small Business.**
- ❖ Individual task orders with actual quantities will be issued and competed.**
- ❖ Total value of the contract will not exceed \$1,000,000.**