



BORDERLANDS RESTORATION





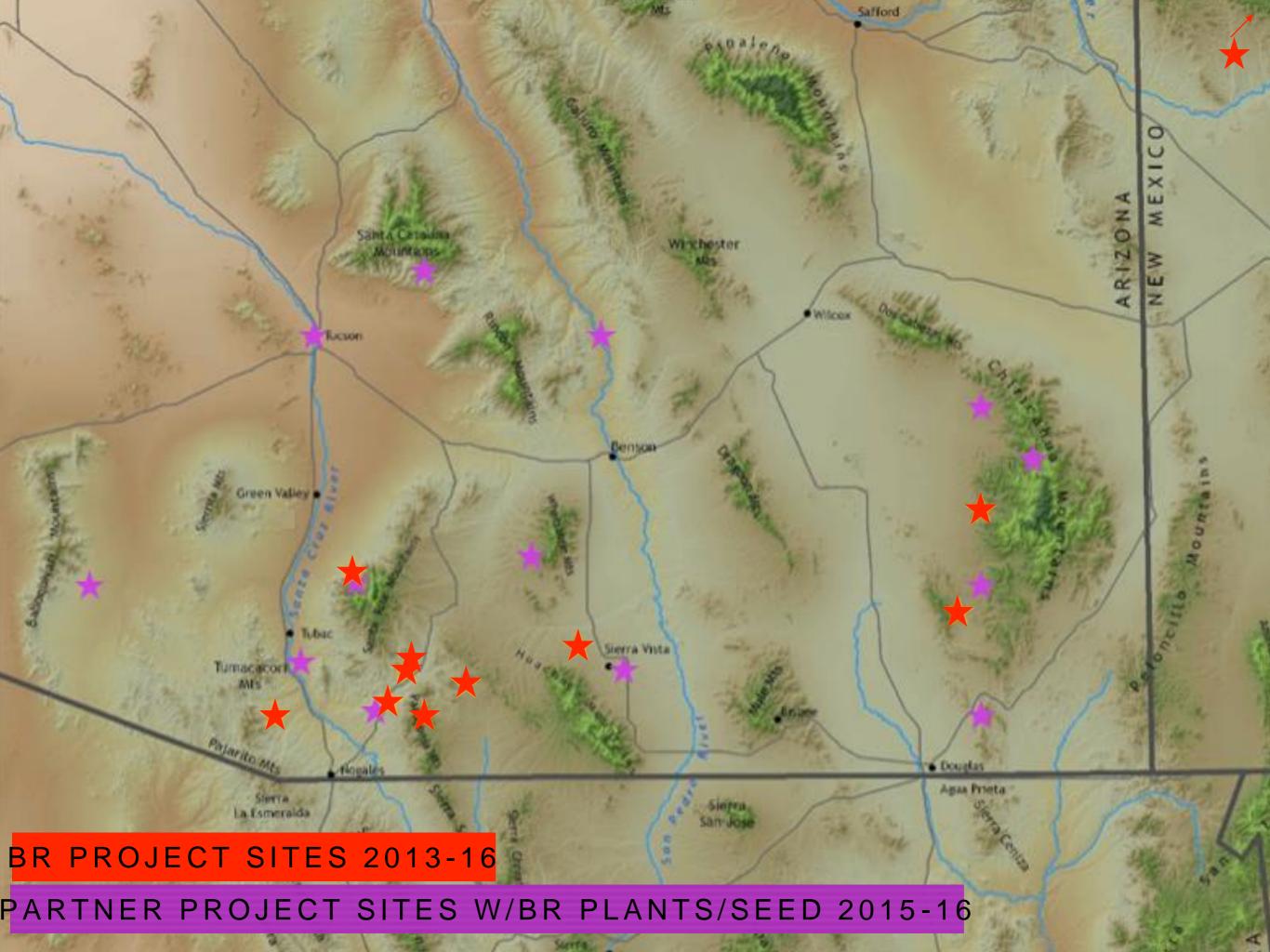






















Seed Increase Plot - Source Info

Source Material

Accession

2014_0258

Scientific Name Clematis drummondii

Associated Project NPS-BIBE

Propagation #(s) Used

Plot Identity No.

Source Locality Ft Davis

Watershed Upper Santa Cruz

Elevation 4150

Plants 50 Sampled Population 500 Size

Planting

Date Planted 6/21/16

Size of Plot 650 ft by 1 ft

Mulching None.

P15 0042

Planting Narrative (date, # people, and hours) **Location** BR Nursery Fence Line Parallel to Emily Lane

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Material Information size, container type.

(size, container type, age, health, etc.) From 4x10 containers with varying roots. Some were solid while others fell apart (could be varying moisture level).

Ground Preparation (tillage, cover crop, amendment, etc.)

The area was hoed before planting.Irrigation already present, added emitters every 6 ft.

Irrigation (type and general schedule)

2.0 gph emitters. Watered daily first two weeks planted, then monsoon rains began. Only watered once a week when no rain came.

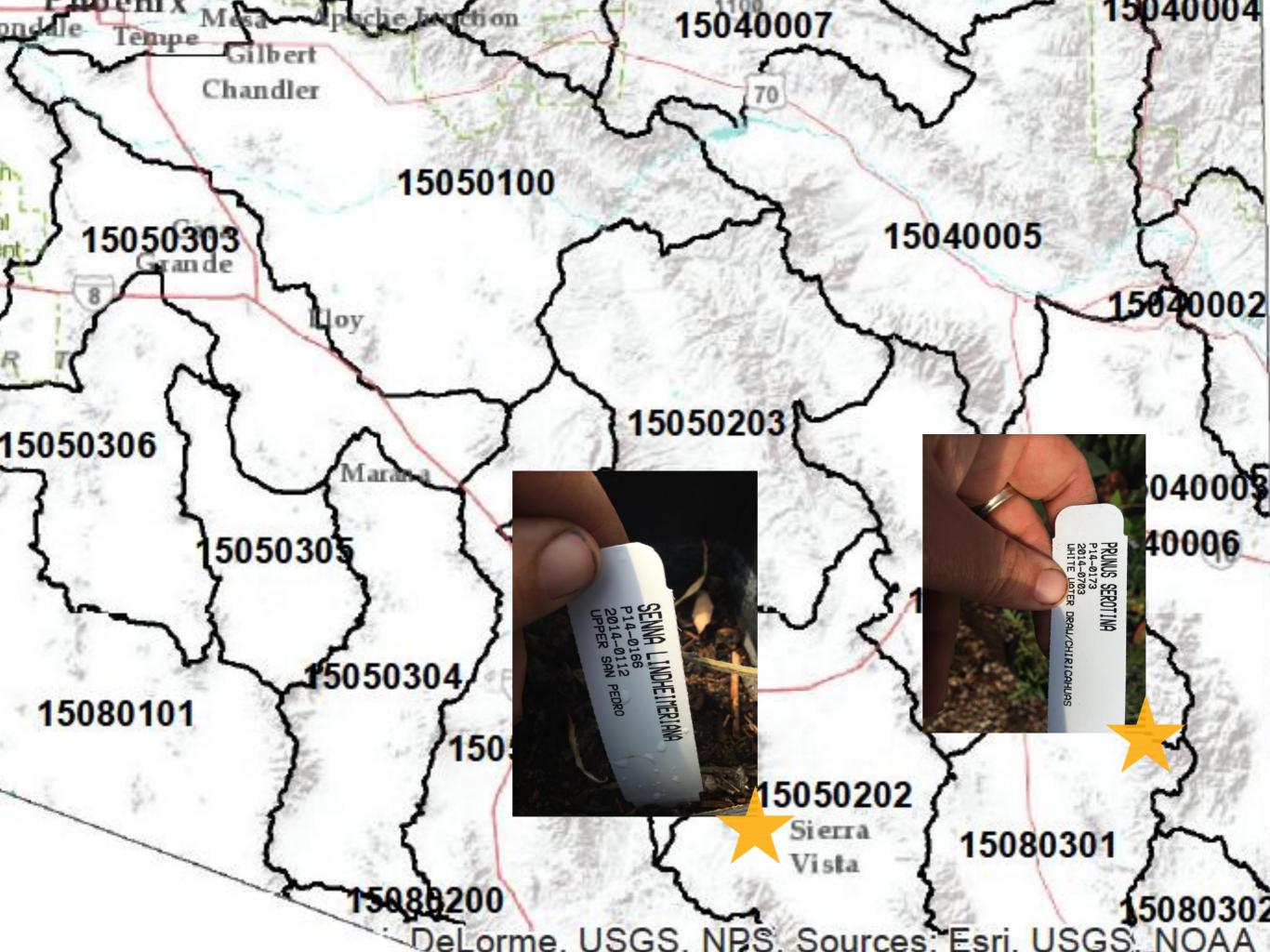
Maintenance

Maintenance Narrative (date, # people, activity, hours)

(straw, weed cloth, groundcover, etc.)

Maintenance 7/18/16: Weeded 1 foot diameter around all the plants. Took about 3 hrs.

Example activities: weeding, irrigation repair, etc.





A Seed Strategy for the Madrean Archipelago

Prepared by: The MAPP Initiative Steve Buckley (1,2), Allegra Mount (3), Francesca Claverie (3), Justin Johnson (4), David Seibert (3), Ashlee Simpson (1,2), Oliver Lysaght (3)

- 1. National Park Service
- 2. Bureau of Land Management
- 3. Borderlands Restoration L3C
- 4. Gila Watershed Partnership 501(c)3

IMPLEMENTING THE NATIONAL SEED STRATEGY ON A REGIONAL SCALE

Purpose

This strategy is a chronicle of the Madrean Archipelago Plant Propagation (MAPP) Initiative, and a plan for the continued development of a plant materials program in southeastern Arizona between 2017-2022. It is a product of a multi-year collaboration between the Bureau of Land.

The primary purpose of this strategy is to articulate how to connect seed collection, curation, and production of plant materials to onthe-ground regional-scale restoration work in the Madrean Archipelago. The strategy will increase the ability of local state, and federal managers to

Native Plant Material Users:

- NEED is INCREASING
- Container plants and seed
- Quantity disparity:
 Private, NGOs and
 NPS vs. USFS, BLM
- Obstacle to scaling: Need is greater than funding

*Based on 19 responses. Private, NGO, and Agency responders represented

OPPORTUNITY:

Communication systems, training in ordering materials, empowerment to push for regionally sourced native materials in projects

Producers (public and private):

- Difficulty in securing contracts
- Using internal resources
- Obstacles to scaling:
 Not enough product demand; concerned about competition with small/large producers

*Based on 4 responses. No seed producers represented, only retailers.

OPPORTUNITY: Share resources, build needed capacity, build market & economy non-competitively, collaborate



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GOAL 1

Pro

Identify seed needs, and ensure the reliable availability of genetically appropriate seed.

Identify research needs and conduct research to provide genetically appropriate seed and to improve technology for native seed production and ecosystem restoration.

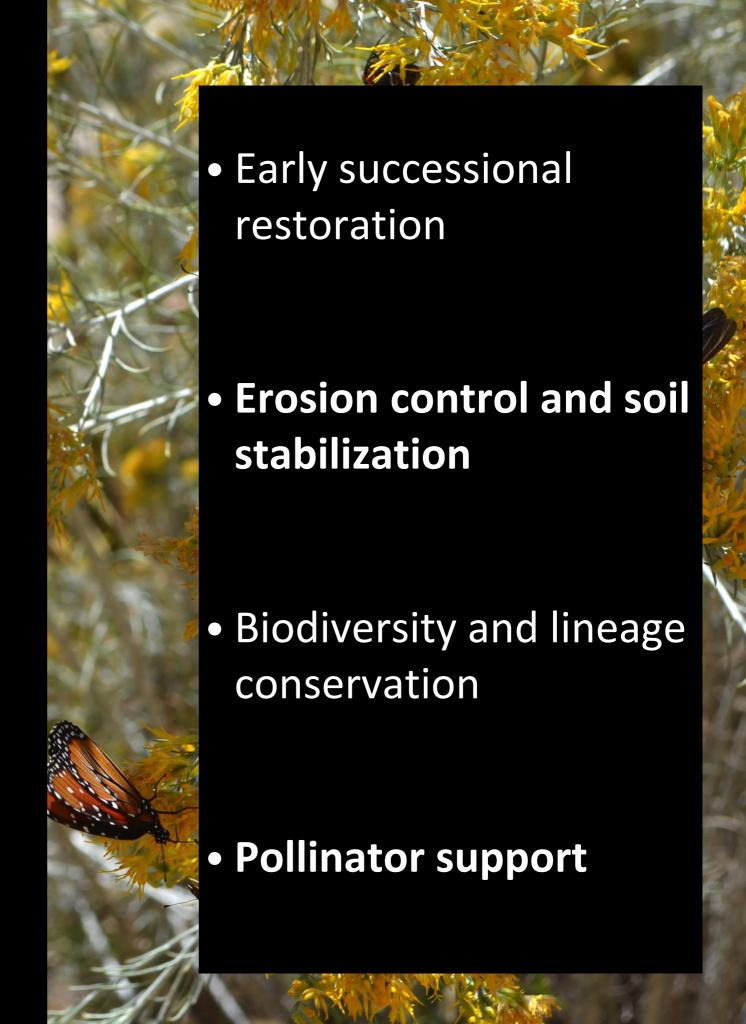






Abbreviated Target Species List, 2016-17

Atriplex canescens Ericameria nauseosa Isocoma tenuisecta Gossypium thurberi Agave spp. Dalea pulchra Penstemon barbatus Rhus spp. Senna hirsuta Tecoma stans Chilopsis linearis Clematis drummondii Cupressus arizonica Tithonia thurberi Asclepias spp. Sphaeralcea spp. Oenothera elata Heteropogon contortus Sporobolus spp. Schizachyrium scoparium Bouteloua spp. Hilaria mutica Muhlenbergia emersleyi Muhlenbergia rigens Tripsacum lanceolatum



























Mountains Colorado Plateau Desert Apache Highlands AZ - NM Mountains Sonoran Highlands end Great Basin Conifer Cities Lowland Sonoran Upland Sonoran 30 60 Miles Tundra Mohave

Verde Valley Plant Materials Partnership

SW Seed Partnership

MAPP Initiative

Central Arizona
Conservation Alliance







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





