

IDAHO

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INTRODUCTION

This report summarizes the studies and activities conducted by the NRCS Aberdeen Plant Materials Center during calendar year 2006.

COMPLETED PROJECTS

1. Native Plant Restoration (NPS Craters of the Moon National Monument)

Seed processing and propagation of 2150 plants from 10 native seed collections. Seed harvested summer, 2004 and 2005. Plant propagation begun late fall 2005. Delivered 230 antelope bitterbrush *Purshia tridentata* and 100 limber pine *Pinus flexilis* September 2006.

ONGOING PROJECTS

1. Department of Defense (U.S. Army)

Seed production of 3 test species (western wheatgrass, Siberian wheatgrass, and slender wheatgrass) and eventual release. Fields established spring 2005 and first seed harvest summer 2006. 3 year seed increase.

2. Grand Teton National Park

Seed production of slender wheatgrass, blue wildrye, mountain brome and Sandberg bluegrass for revegetation of disturbed areas following road construction. Fields established spring 2006. 3 year seed increase.

3. Bureau of Reclamation

Ongoing riparian/wetland work.

4. USDA FS – Ogden

Ongoing riparian/wetland work.

5. Foundation Seed Production (Utah Crop Improvement Association, Idaho Crop Improvement Association, USDA FS Rocky Mountain Research Station)

Anatone and Goldar bluebunch wheatgrass, Paiute orchardgrass, Bannock thickspike wheatgrass, Maple Grove Lewis flax, Snake River Plains fourwing saltbush, Northern Cold Desert winterfat, Richfield firecracker penstemon, Clearwater Venus penstemon.

6. Study 01-W08 Seagull Bay Wetland Enhancement (Bureau of Reclamation)

Planted willows around Seagull Bay wetland to create structure for wildlife and to improve water quality.

7. Study 2000-R18 Medicine Lodge Creek Assessment and Revegetation

Evaluate stream assessment procedures and develop revegetation plan(s) to restore stream functions.

8. Study 2000-R19 Sheridan Creek Riparian Demonstration Project

Test bioengineering treatments on an overgrazed stream and restore the natural fish habitat.

9. Study 87-R01 American Falls Reservoir Idaho Shoreline Erosion Control Project (Bureau of Reclamation)

Develop vegetative techniques to control erosion on shorelines of lakes, reservoirs, and ponds.

10. Study 87-R02 Trout Creek Nevada Riparian Evaluation Site

Test woody riparian accessions on streams in the arid and semi-arid west. Test planting techniques for woody riparian plants.

11. Study 92-W08 Fairview Wetland Idaho Constructed Wetland System (Idaho State University)

Determine the effectiveness of various wetland species to remove nutrients from an individual farm's irrigation wastewater. Develop design criteria for sizing system components.

12. Study 96-R13 Trout Creek Nevada Bioengineering Demonstration

Demonstrate the effectiveness of bioengineering techniques in stabilizing streambanks in low precipitation zones of the arid and semi-arid west. Treatments tested include brush mattress, vertical bundles, fascines, and willow structure to stop headcut.

13. Study 98-01 Hybrid Poplar Initial Evaluation

Identify commercial accessions of hybrid poplar used for fuel and fiber adapted to eastern Idaho and northern Utah.

14. Study 98-R10 Carson River Nevada Riparian and Bioengineering Demonstration

Demonstrate the effectiveness of bioengineering in conjunction with traditional engineering practices to stabilize streambanks in the arid and semi-arid west.

15. Study 98-W07 Pocatello, ID Stormwater Constructed Wetland System (City of Pocatello)

Create Constructed Wetland System to treat stormwater from the SE side of Pocatello, ID. This wetland is an attempt to help the city meet the EPA phase II requirements.

16. Study ABPMC-S-0203-RA Mutton bluegrass (9067402) initial seed increase and evaluation

Seed increase G1 and evaluation.

17. Study ABPMC-T-0315-RI Upper Carson River Bioengineering Demo

Develop bioengineering treatments to stabilize severely eroding streams in low precipitation areas.

18. Study IDPMC-T-0403-RI Willow cutting soaking trials

Evaluate efficacy of pre-soaking hardwood cuttings to aid in establishment.

19. Study IDPMC-T-0406-WE Wetland species direct seeding evaluation (National Park Service)

Evaluate techniques to establish wetland plants through direct seeding.

20. Study IDPMC-T-0505-RA Orchard display and adaptation evaluation (USDA FS Rocky Mountain Research Station)

Establish and evaluate native and introduced grasses, forbs and shrubs.

21. Study IDPMC-T-0506-RA Great Basin forb propagation and initial evaluation (USDA FS Rocky Mountain Research Station)

Greenhouse propagation and evaluation of 7 native forb accessions for transfer to RMRS.

22. Study IDPMC-T-0507-RI Willow Pre-soak field trial

Compare effectiveness of willow pre-soaking treatments under field conditions. Planted 350 hardwood cuttings of 3 woody riparian species on degraded creek bank at Arbon

Valley, ID.

23. IDPMC-T-0605-RA Anatone bluebunch wheatgrass Growth Curves
Develop growth curves for inclusion in ecological site descriptions.
24. IDPMC-P-0407-RA USDA FS R1 Bluebunch wheatgrass IEP (USDA FS Region 1)
Evaluate collections of R1 PSSPS for possible selected class release.
25. IDPMC-P-0408-RA USFSR1 Sandberg bluegrass IEP (USDA FS Region 1)
Evaluate collections of R1 POSE for possible selected class release.
26. IDPMC-P-0409-RA USFSR1 Blue wildrye IEP (USDA FS Region 1)
Evaluate R1 collections of ELGL for possible selected class release.
27. IDPMC-P-0410-RA USFSR1 Idaho fescue IEP (USDA FS Region 1)
Evaluate R1 collections of FEID for possible selected class release.
28. IDPMC-P-0411-RA USFSR1 Tufted hairgrass IEP (USDA FS Region 1)
Evaluate R1 collections of DECA for possible selected class release.
29. IDPMC-P-0412-RA USFSR1 Western Yarrow IEP (USDA FS Region 1)
Evaluate R1 collections of ACMI for possible selected class release.
30. IDPMC-P-0504-RA Basin Wildrye advanced evaluation
Evaluate Magnar, Washoe Germplasm and Trailhead against promising accession from Nevada.
31. IDPMC-P-0508-RA Caribou-Targhee NF Slender wheatgrass IEP (USDA FS Caribou-Targhee and Bridger-Teton National Forests)
Evaluate CT and BT collections of ELTR7 for possible selected class release.
32. IDPMC-P-0509-RA Caribou-Targhee NF Mountain Brome IEP (USDA FS Caribou-Targhee and Bridger-Teton National Forests)
Evaluate CT and BT collections of BRMA4 for possible selected class release.
33. IDPMC-P-0602-RA Muttongrass (*Poa fendleriana*) AEP
Compare 9076402 to accessions from other researchers for potential release.

34. IDPMC-P-0615-RA Coffee Point- Basin Wildrye Off-Center Evaluation Nov. 2006

Evaluate released and test material in field conditions at Coffee Point Test Site.

35. IDPMC-P-0616-RA Coffee Point-Sandberg bluegrass Off-Center Evaluation

Evaluate accessions of Sandberg bluegrass under field conditions.

36. IDPMC-P-0617-RA Coffee Point-Bluebunch Wheatgrass Off-Center Evaluation

Evaluate accessions of PSSPS under field conditions.

37. IDPMC-P-0618-RA Coffee Point-Snake River Wheatgrass Off-Center Evaluation

Evaluate SRWG under field conditions.

38. IDPMC-P-0619-RA Coffee Point- Thickspike wheatgrass Off-Center Evaluation

Evaluate releases of ELLAL under field conditions.

39. IDPMC-P-0620-RA Coffee Point- Western Wheatgrass Off-Center Evaluation

Evaluate western wheatgrass under field conditions.

40. IDPMC-P-0621-RA Coffee Point- Slender Wheatgrass Off-Center Evaluation

Evaluate ELTR materials under field conditions.

41. IDPMC-P-0622-RA Coffee Point- Bottlebrush Squirreltail Off-Center Evaluation

Evaluation of bottlebrush accessions under field conditions.

42. IDPMC-P-0623-RA Coffee Point- Shrub Off-Center Evaluation

Evaluation of native shrubs under field conditions.

43. IDPMC-P-0624-RA Coffee Point- Forb Off-Center Evaluation

Observe native forb releases under field conditions.

44. IDPMC-P-0625-RA Coffee Point- Introduced Grass Off-Center Evaluation

Evaluate introduced grass accessions under Idaho field conditions.

45. IDPMC-T-0505-RA Orchard display and adaptation evaluation

Display nursery of native and introduced grasses, forbs and shrubs. Evaluate

establishment and performance.

46. IDPMC-T-0601-RA Forb Herbicide tolerance trial (UI Extension)

In cooperation with U of I to evaluate potential herbicides for weed control in forb seed production.

47. IDPMC-T-0603-Ri Effects of pre-soaking dormant hardwood cuttings of coyote Willow

Evaluate length of time and water temperatures to increase survivability.

48. IDPMC-T-0604-RA Great Basin Forb Initial Increase and Evaluation

Develop propagation techniques and evaluate plant growth and seed production characteristics in increase blocks.

49. IDPMC-T-0604-WE Options and cost breakdown for direct seeding wetlands with Baltic rush

Develop alternatives and costs for direct seeding Baltic Rush.

50. IDPMC-T-0606-RA *Eriogonum* stratification requirements

Investigate optimum stratification durations for 2 *Eriogonum* species, *E. umbellatum* and *E. heracleoides*.

51. IDPMC-T-0607-RI Salato Creek Soil Bioengineering Demonstration Site

Demonstration of soil bioengineering treatments in low precipitation areas of the SW. Soil Bioengineering treatments were combined with harder structures to show how they can fit together and function together.

52. IDPMC-T-0608-RI Restoration techniques for the Hopi Indian Reservation

Development of riparian planting techniques for the arid SW on the Hopi Reservation. These techniques utilize native culturally significant riparian woody species to restore the riparian areas on the reservation.

53. IDPMC-T-0609-RI Lemhi River Soil Bioengineering Demonstration near Salmon, ID

Stream bank Soil bioengineering demonstration on the Lemhi River near Salmon, ID. This project evaluates different soil bioengineering treatments that can work at high elevations and in high pH water.

54. IDPMC-T-0610-RI Moose WY streambank soil bioengineering demonstration project

Demonstration of Stream bank Soil Bioengineering treatments on the Snake River. This

project will demonstrate the use of bioengineering treatments in a large river with high velocities and high ice loads.

55. IDPMC-T-0612-WE Stratification requirements for Indian Valley Sedge (*Carex aboriginum*)

56. IDPMC-T-0613-CP Evaluation of Hairy Vetch populations for winter hardiness

Determine if any of 5 hairy vetch accessions are winter tolerant in ID.

57. IDPMC-T-0614-RA Propagation protocol for containerized *Eriogonum umbellatum* and *E. heracleoides*

Create greenhouse propagation protocols for ERUM and ERHE2. Study examines stratification requirements, planting depths and irrigation schedules.

PROPOSED OR PLANNED STUDIES

1. Development of ecoregion specific vegetative riparian restoration guidelines following removal of Tamarisk (salt cedar), Russian olive and other invasive species
2. Skull Valley Inter Center Strain Trial

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