

Development of permanent greenhouse shrub rows and seed collection – Flathead National Forest

2006 Accomplishments

The FNF Botany Crew scouted and mapped collection areas throughout the summer. Montana Conservation Corps collected seeds and shrubs. Approximately 12,000 shrub cuttings were established in stool beds for red-osier dogwood, Scouler's willow, and common snowberry for future "collections" at the Confederated Salish-Kootenai Tribe Nursery and Coeur d'Alene Nursery. Stool beds were established for each species for each of the 3-5 major drainages on the FNF, to capture local genetic diversity for future out-plantings. Out-year cuttings will be collected from the stool beds, reducing field collection costs.

Shrub collections:

- \$12,800 Cost-share agreement with Montana Conservation Corps – collect shrub cuttings and seeds (4 weeks)
- \$7,500 Cost-share agreement with Confederated Salish Kootenai Tribe – establish and maintain stool beds.

Seed Collections

50 species of shrubs and forbs collected, approximately 75 lbs.

Forbs		Grasses
<i>Actaea rubra</i>	<i>Lomatium cous</i>	<i>Achnatherum nelsonii</i>
<i>Allium cernuum</i>	<i>Mitella sp.</i>	<i>Agoseris sp.</i>
<i>Allium schoenoprasum</i>	<i>Osmorhiza berteroi</i>	<i>Calamagrostis canadensis</i>
<i>Anaphalis margaritacea</i>	<i>Osmorhiza occidentalis</i>	<i>Danthonia intermedia</i>
<i>Angelica sp.</i>	<i>Packera pseud aureus</i>	<i>Elymus glaucus</i>
<i>Antennaria rosea</i>	<i>Parnassia fimbriata</i>	<i>Elymus trachycaulus</i>
<i>Arnica cordifolia</i>	<i>Penstemon confertus</i>	<i>Glyceria striata</i>
<i>Comarum palustre</i>	<i>Penstemon wilcoxii</i>	<i>Poa palustris</i>
<i>Cornus canadensis</i>	<i>Potentilla glandulosa</i>	<i>Pseudoroegneria spicata</i>
<i>Dodecatheon pulchellum</i>	<i>Ranunculus uncinatus</i>	<i>Trisetum canescens</i>
<i>Eriogonum umbellatum</i>	<i>Senecio triangularis</i>	Sedges and Rushes
<i>Eucephalus engelmannii</i>	<i>Solidago missouriensis</i>	<i>Carex crawfordii</i>
<i>Geum macrophyllum</i>	<i>Thalictrum occidentale</i>	<i>Carex lenticularis</i>
<i>Heracleum maximum</i>	<i>Tiarella trifoliata</i>	<i>Carex mertensii</i>
<i>Heuchera cylindrica</i>	<i>Trautvetteria carolinensis</i>	<i>Carex spp.</i>
<i>Iliamna rivularis</i>		<i>Carex utriculata</i>
		<i>Scirpus microcarpus</i>
		<i>Juncus ensifolius</i>

Deviations:

\$2000 In-service agreement with Coeur d'Alene Nursery - had enough plant material and extra funding to establish additional shrub stool beds (annual maintenance not included).



Shrub rows at Coeur d'Alene Nursery

Year Awarded: 2006 (\$31,400)

Project completion: 2006

Report number: 1 of 1

Expenditures:

- FY06 funding \$31,400;
- expended \$29,400;
- \$2,000 remaining

\$7500 Cost-share agreement

Confederated Salish and Kootenai Tribes

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\$12800 Cost-share agreement

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Montana Conservation Corps and FNF Botany Crew enjoying the outdoors - collecting shrub cuttings and grass seeds.



Flathead National Forest

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