

# Caribou-Targhee NF

## Native Plants Material Program Development

### 2011 Accomplishments

This project is designed to promote and implement the use of local and site-adapted tall forbs and bunchgrasses for the revegetation, rehabilitation and restoration of native plant communities. The intent is to implement direction contained in national policy (FSM 2070) and Land & Resource Management Plans for the use of native plant materials.

In FY2009, the Caribou-Targhee NF initiated a new partnership with Idaho State University (ISU) Department of Biological Sciences, purchased seed and obligated funding with Lucky Peak Nursery.

In FY2010, ISU graduate and undergraduate students along with Dr. Mathew Germino (associated professor at ISU) were able to take seven years worth of our data collection (Jane Rushane, Montpelier RD) from a study in a tall forb site and complete analysis of the data and a draft manuscript of results. They also conducted studies on tarweed in a greenhouse setting.

In FY2011:

- A final report was completed, titled: *Restoration of rangelands from invasive annual to diverse perennial states: successional status and plant density affect performance of planting designs.*
- Completed a report based on the tarweed study titled: *Does tarweed, Madia glomerata, amend the soil to improve its germination and decrease germination of other species?*
- Dr. Mathew Germino collected additional information related to the studies mentioned above with a focus on suitability of plant materials for restoration objectives and the limitations of restoring sites invaded by tarweed. Results will be reported in FY2012.

Work Planned for FY2012:

- Due to limited space (Lucky Peak Nursery) and workload, it was decided to wait until the fall of 2012 to start seed increase at Lucky Peak Nursery under this project.

Year Awarded: 2009 Report number: 3 of 4

Expenditures: FY2009 NFN3 funding of \$51,000 expended: Agreement with ISU, obligated funding with Lucky Peak Nursery and purchase of seed.

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#### List of Plant's from the Tall Forb Study

Successional status (early, E; mid, M; or late, L), and functional group (P = perennial, A = annual, and B = biennial; F = forb, G = grass) of native species used in restoration plots.

Scientific name	Common name	Status	Group
<i>Achillea millefolium</i>	yarrow	L	PF
<i>Elymus trachycaulus</i>	slender wheatgrass	E	PG
<i>Aquilegia coerulea</i>	Colorado blue columbine	L	PF
<i>Artemisia ludoviciana</i>	white sagebrush	L	PF
<i>Eurybia glauca</i>	gray aster	E	PF
<i>Bromus marginatus</i>	mountain brome	E	P/AG
<i>Castilleja sulphurea</i>	sulphur indian paintbrush	L	PF
<i>Erysimum asperum</i>	western wallflower	E	B/PF
<i>Erigeron speciosus</i>	aspen fleabane	M	PF
<i>Helianthella uniflora</i>	oneflower helianthella	E	PF
<i>Geranium viscosissimum</i>	sticky purple geranium	M	P/AF
<i>Lupinus x alpestris</i>	Great Basin lupine	M	PF
<i>Penstemon rydbergii</i>	Rydberg's penstemon	E	PF
<i>Potentilla glandulosa</i>	sticky cinquefoil	E	PF
<i>Solidago multiradiata</i>	manyray goldenrod	E	PF
<i>Achnatherum nelsonii</i>	Columbia needlegrass	M	PG
<i>Thalictrum fendleri</i>	Fendler's meadow-rue	L	PF
<i>Valeriana occidentalis</i>	western valerian	L	PF
<i>Vicia americana</i>	American vetch	M	PF
<i>Heliomeris multiflora</i>	showy goldeneye	M	PF