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## Project Narrative 2003 Highlights, Accomplishments and Activities

This field season we completed the second year of the herbicide screening and native plant seeding tests for sulfur cinquefoil (*Potentilla recta*). This study integrates effects of fire, herbicide, and seeding of native grasses on the restoration of degraded meadows. In conjunction with this research we initiated a study of seed banks of degraded meadows. We have 2 manuscripts in draft form that report our results of demography and ecology of sulfur cinquefoil. Three presentations and 2 posters were given at national meetings on this work. Additional work related to sulfur cinquefoil includes multi-scale detection of sulfur cinquefoil using natural color photography and research on the phenology and pollination of this nonnative and co occurring native *Potentilla*. Finally, an identification guide of the *Potentilla* species of the interior Pacific Northwest is completed and will be in print soon.

An area invasive plant economic analysis was completed this year. The analysis provides potential economic loss associated with invasive plants in the local eastern Oregon communities.