

Ski Slope Native Plant Revegetation Study

2010 Accomplishments

This Pacific Southwest Region project, with the Lake Tahoe Basin Management Unit, Eldorado, Inyo, Tahoe and San Bernardino National Forests, was initiated in 2009 to develop and test provisional seed mixes designed for revegetation and rehabilitation at eight ski resorts located on five National Forests in California. The goal of the project is to develop a native seed mix for each of the eight ski resorts that to better establish native vegetative cover and reduce erosion than the nonnative erosion control mixes currently used at ski resorts.

2010 Accomplishments/Activities Include:

- Forests completed plot set up and data collection on a total of 34 plots.
- UC Berkley Botanic Garden collected seed with assistance from forests on selection of additional seed collection sites and necessary environmental documentation.
- Pacific Southwest Region Placerville Nursery tested seed for purity and germination.
- Soil samples from each of the 34 plots were analyzed for organic matter, potassium, magnesium, calcium, sodium, sulfate-sulfur, soil pH, cation exchange capacity, and soil texture.
- University of California, Davis (now AECOM), as part of dissertation work, advised on the development and implementation of the project
- A poster was presented at The Tahoe Science Conference.
- Pine needles were collected for use when plots are planted.
- Planting was completed in the fall of 2010.



Figure 1: *Hackelia velutina*, one of the 21 species used in this project

Year Awarded: 2010

Project completion: 2013

Report number: 2

Expenditures: FY 2010, \$28,900

Partners/Contractors/Coop: Ski Resorts (Sierra at Tahoe, Kirkwood, Alpine Meadows, Mammoth Mountain Ski Area, Bear Mountain, Snow Summit, Snow Valley, Heavenly, Mount Rose); University of California, Davis, Intermountain Region (Humboldt-Toiyabe), University of California Berkeley Botanic Garden, Placerville Nursery, Integrated Environmental, Ski Resort Contributions include: Personnel time, amendment treatments, pine needles, estimated at \$10,000



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