

# Ski Slope Native Plant Revegetation Study (Lake Tahoe Basin Management Unit, Eldorado, Tahoe, San Bernardino, & Inyo National Forests 2011 Accomplishments

This project was initiated to develop and test provisional seed mixes designed for revegetation and rehabilitation at nine ski resorts located on six national forests in the Pacific Southwest Region. The goal of the project is to develop a native seed mix for each of the nine ski resorts that will perform as well or better at establishing vegetative cover and reducing erosion than the current non-native erosion control mixes used at ski resorts.

2011 Accomplishments include:

- Seeded 45 plots (15 replicates) during the Fall of 2010;
- Seeded 15 plots (5 replicates) in the Fall of 2011 (Note: these activities at Kirkwood, Sierra at Tahoe, and a replicate at Heavenly Ski Resort were delayed from 2010 to 2011 due to early snow.
- Established one plot at Kirkwood and one plot at Sierra at Tahoe.
- Completed first year post seeding monitoring at 45 plots and entered post monitoring data;
- Entered remaining baseline data and collected additional baseline information for 60 plots;
- Collected 13 soil samples from amended plots for soil analysis (organic matter, potassium, magnesium, calcium, sodium, sulfate-sulfur, soil pH, cation exchange capacity, and soil texture); and
- Continued collaboration with Jennifer Burt, AECOM, previously UC Davis, for continued project development and implementation.

Figure 1 (right): *Hackelia velutina* seedling  
Figure 2 (below): Post seed monitoring at Heavenly Ski Resort



Year Awarded: FY2011  
Project completion: FY2014  
Report number: 3 of 6

Expenditures (FY2009): \$68,000  
Expenditures (FY2010): \$28,900  
Expenditures (FY2011): \$37,000  
Funding to date: \$133,000

Partners/Contractors/Coop: Ski Resorts (Sierra at Tahoe, Kirkwood, Alpine Meadows, Mammoth Mountain Ski Area, Bear Mountain, Snow Summit, Snow Valley. Heavenly Ski Resort, Mount Rose (R4); AECOM, University of California, Davis,. R4's Humboldt-Toiyabe NF, UC Berkley Botanical Garden, R5's Placerville Nursery, Integrated Environmental

Ski Resort Contributions: Personnel time, amendment treatments, pine needles, help with seeding for an estimated total contribution of \$20,000



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