

Coeur d' Alene FS Nursery

FY09 Native Plant Material Accomplishments

Using FY09 NFN3 funds we accomplished the following:

- Improved the knowledge and practice of operational whitebark pine seedling production at the Coeur d' Alene FS Nursery.
- Conducted a study to better understand the scarification requirements of whitebark (WBP) pine seed, which involved the following:
 - Established germination trials based on nine seed sanding treatments ranging from 3-7.5 hours in duration.
 - Monitored growth and survival of direct-seeded WBP seedlings and compared to hand-transplanted seedlings.
 - Solidified seedling scarification (sanding time) requirements at 3-4 hours.
 - Established the success and efficiency of direct-sowing WBP seed vs. hand-transplanting.
 - Established the potential for single-season-grown, outplantable, operational WBP seedlings.
 - Established the success of using rock grit (vs perlite) as a top-dressing on WBP to control disease and competition.
 - Established the success of using plastic hard-walled containers (vs styroblocks) for growing WBP.
 - Solidified the longevity of WBP seed in storage beyond expected age by sowing / testing older seedlots.
 - Presented findings and Nursery WBP culture practices at the High-Elevation Five-Needled Pine conference in Missoula, MT, 2010.

Using other appropriated dollars or federal funds we accomplished the following:

- Produced in excess of 60,000 operational whitebark pine seedlings for outplanting in 2010, 2011, and 2012.



Figure 1. Direct-sown WBP seed germinating.

Year awarded: 2009

Project completion: 2010

FY10 expenditures:

\$5,000 (NFN3)

Partners/contractors/coop: Lolo NF, Idaho Panhandle NF, Flathead NF, & Caribou/Targee NF.

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Figure 2. Direct sowing WBP seed, two per cell.



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