

Special Technology Development Program Progress Report

PROJECT NUMBER : R1-2000-01

PROJECT TITLE : Develop a Tool for Predicting Performance of Blister Rust Resistant Western White Pine Planting Stock

PROJECT STATUS: Continuing but **NO** funds are being requested for the next fiscal year to continue the project.

EXPECTED PROJECT DURATION (total years for project): **3 years**

EXPECTED COMPLETION DATE OF THE PROJECT (fiscal year): FY2002 (Part of FY2001 funds will be contracted for project completion in FY2002)

SUBJECT (from original application form): Disease management, *Cronartium ribicola*, white pine blister rust, exotic disease management

STATUS OF SUBJECT SPECIES: native

PROJECT OBJECTIVES (from original application form): 1) Assess the performance of genetically improved white pine stock (F2) across many different sites. 2) Quantify how different stand and site factors influence levels of white pine blister rust infection and mortality in young white pine stands of known rust resistant stock type, and 3) develop a risk rating tool to predict field performance of genetically improved white pine stock.

BRIEF DESCRIPTION OF THE PROJECT: In FY2000, funding uncertainties and contract/agreement difficulties delayed initiation of the project until well into July (more than half-way through the field season). In spite of this administrative delay, 11 plantations were surveyed and in 29 more plantations were added in FY2001 to reach the project goal of 40 plantations.

Infection levels in the 40 plantations varied from 1% to 94 %. According to early nursery inoculation trials, the maximum infection level expected was about 33%, so we are especially interested in comparing the site factors related to the stands that had greater than 30% infection to those with less than 30% infection. This wide variation in infection levels supports what has been observed in a few other plantations, and is the underlying reason for this project.

Data entry and analyses are to be accomplished during the winter in an effort to better understand site or stand factors that might be related to infection levels. Results will be written up as part of a M.S. project by the fall of 2002.

CHANGES TO ORIGINAL PROJECT SCOPE OR OBJECTIVES (changes that need to be made to the original proposal and reasons for the changes): **the original completion date has been extended to December 31,2002 due to administrative delays in getting funding initiated. This will not change the total cost of project; only extend the period the funds are obligated..**

ADDITIONS TO ORIGINAL PROJECT SCOPE OR OBJECTIVES (describe additional accomplishments expected from the project): **None**

FHP LEAD CONTACT (FHP person submitting proposal):

Name
John Schwandt

Affiliation (Office or Dept.)
R-1 FHP Coeur d'Alene Field Office

Phone, E-mail, Fax
208-765-7415
jschwandt@fs.fed.us
fax: 208-765-7307

PRINCIPAL INVESTIGATOR(S) (add lines as necessary):

| <u>Name</u> | <u>Affiliation (Office or Dept.)</u> | <u>Phone, E-mail, Fax</u> |
|------------------|---|---------------------------|
| Joe Muller | Univ. of Idaho, College of Forest Resources | 208-892-3506 |
| Dr. Lauren Finns | Univ. of Idaho, College of Forest Resources | 208-885-7920 |

COOPERATORS (contributing to, but not leading, the project) (add lines as necessary):

| <u>Name</u> | <u>Affiliation (Office or Dept.)</u> | <u>Phone, E-mail, Fax</u> |
|---------------------|---|---------------------------|
| Dr. Ladd Livingston | Idaho Department of Lands rliving@cda.idl.state.id.us | 208-769-1525 |

COOPERATOR INVOLVEMENT (add lines as necessary):

| <u>Name</u> | <u>Role</u> | <u>Time Commitment</u> |
|-------------|--|------------------------|
| Marc Rust | Director-Inland Empire Tree Improv. Coop | minor (few days) |

PRODUCTS AND DUE DATES (from original application form):

A publication and practical decision tool that will provide management alternatives for genetically improved (F2) white pine stock on different sites based on predicted field performance.

Completion of field surveys by fall of 2001; completion of analysis and report December 2002.

STATUS OF PRODUCTS/PRESENTATIONS: (If products or presentations are not completed by the due date, explain why and indicate when the products will be completed. Indicate whether the Region/Area considers current progress on the project to be acceptable; if not, what corrective measures are planned?)

Current progress is very satisfactory, especially given the late start due to administrative details.

ACCOMPLISHMENTS TO DATE:

Products: Fieldwork approximately 90% complete

Publications: none required in 1st year

Technology Transfer: none required in 1st year

FIRST FISCAL YEAR FUNDED: FY2000

FUNDS OBLIGATED FROM BEGINNING OF PROJECT THROUGH CURRENT FISCAL YEAR (extend table as needed)(Ignore this section if not requesting funds)

FUNDS NOT USED FROM PREVIOUS FISCAL YEAR (If there are unused funds, what is the reason for not using them? How will the project continue without these funds?) The funds allocated to the University of Idaho through a Challenge Cost share agreement will be obligated through December 31, 2002.

EXPECTED BUDGET FOR NEXT FISCAL YEAR (extend table as needed):

NONE

DIFFERENCE BETWEEN ORIGINAL AND AMENDED REQUESTS AND JUSTIFICATION (the difference between originally requested funds and funds needed based on changes in the budget or scope of the project):**NONE**

STDP FUNDING NEEDED:

Total estimated additional future funding needed beyond the current fiscal year: \$32,000 for a second year.

NONE