WORKING PLAN: Sx 90102V

TITLE: Growth of western redcedar seedlings fertilized at time of planting with Gromax fertilizer

OBJECTIVE:
To assess the performance of western redcedar planted with and without gromax fertilizer on a Queen Charlotte lowland site. Originally the trial was to include fertilization of sitka spruce, however, this was not possible in 1990.

LOCATION:
Opening number 14, mapsheet 103F080, 10km north of Pt. Clements, B.C.; Queen Charlotte Islands Forest District; Vancouver Region.

DESIGN AND STOCK PLANTED:
1+0 red cedar plugs were planted on mounds and protected by Vexar 5" mesh tubing (operational on the Queen Charlotte Lowlands). Eight lines of approximately 30 trees each were established, numbered and tagged. Four of these lines had gromax "teabag" fertilizer (transplant 5: 25-4-7) added to the planting hole with the plugs, four had no gromax added.

DATES OF ASSESSMENT:
Trees were planted in the Spring of 1990 as part of a larger contract. Total heights of 80 trees (40 with fertilizer, and 40 without) will be taken after the first growing season (early 1991), along with tree vigour codes (good, fair, poor, chlorotic, dead). A second measurement will be made after the second growing season (late 1991) and possibly another after the third season, to get an idea of total net effect of gromax on cedar.

DATA ANALYSIS AND REPORTING:
T-tests will be run after each measurement to check for significant difference between fertilized and unfertilized seedlings. Results of the "tree vigour" check will also be discussed. An overall T-test (for average over 2 to 3 years for each tree) will also be completed after final measurement. The interim report will be prepared in 1991 after the first measurement; the final report in 1992 or 1993 after the final measurements.

REPORT DISTRIBUTION:
Silviculture Branch Library, Victoria, B.C.: 387-8907
Silviculture, Vancouver Region, Burnaby, B.C.: 660-7500
District Manager, QCI Forest District: 559-8447