PLANTING TRIAL

OBJECT: To compare the survival and growth characteristics of P1 miniplugs with the P1 2+0 BR planted in the same block. Also, to compare the survival and growth characteristics of the miniplugs planted in an area of the block which had been broadcast burned with those planted in an area which was untreated.

Stock and Handling:
- Stock Type: P1 MP+1
- Seedlot: 8077
- Elevation: 1570m
- Speedzone: T.O.D.
- BCG zone: MSb1

3200 trees were delivered in good condition although some bundles were somewhat frozen. The miniplugs have very little of the container material left with the root. The top of the root system is in somewhat of a ball where as the bottom is similar to BR, thus, they were slurried. The trees were kept on the site throughout the day, under a silvicool tarp. The planters used silvicool bags and the time between bagups was under 2 hours.

Site:
- Trees were planted on F.L. A18698 C.P. 59 Blk 670.
- Elevation: 1445m
- Aspect: NW/SW
- Slope: 30%
- Seedzone: T.O.D.
- B.G.C. zone: MSb1

This block is a clearcut which was conventionally logged in the Spring and Winter of 1987. Part of the block was treated with a moderate to heavy broadcast burn in the Fall of 1986, leaving light debris and little or no duff layer in most places. The rest of the block was left untreated, leaving medium to heavy slash, and a medium duff layer (5-30cm). At the time of planting, the soil was dry on the surface and wet underneath. There were a number of runoff streams and wet areas within the block. (Weather information attached)

Procedure: The trees were planted in one day by four planters using shovels. 2000 trees were planted in the untreated area where a 30 cm by 30 cm screef was required, and 1200 trees were planted in the burned area where a 15 cm x 15 cm screef was required. The target spacing was 2.7m with a 1.0m tolerance. 10 quality plots were established and planting quality (before tolerance) was 96%.

Sampling: Strips were run on bearings and staked with a large stake on each end. All trees 2m on either side of the line were staked with small stakes. 100 trees were sampled in each of the burned and untreated areas. (Sampling information tallied on FS844 forms attached)
Comments: The burned area contained significantly more plantable spots, could be planted much more easily and quickly and produced better planting quality than the untreated area.
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Merritt Branch

SILVICULTURE HISTORY

NEW #

OBLIGATION :

TENURE : F.L. A18698

OLD #

CUTTING PERMIT : 59

MAP REF. : 92I 004

BLOCK : 670

OPENING : 28

LOCATION : PROSPECT CREEK

ELEVATION : 1493 - 1615 m

MAP SCALE : 1 : 15000

ECOL. CLASS :

ACTIVITY : PLANTING TRIAL

DATE : JUNE 12, 1989

* NOTE: colours correspond to ribbon colours used in the field

GROSS AREA : 22.9

PL / MP+1

NP :

HECTARES

2.9
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Merritt Branch

SILVICULTURE HISTORY

NEW # TENURE : F.L. A18698
OLD #

OBLIGATION :

MAP REF. : 92I 004
CUTTING PERMIT : 59

OPENING : 28
BLOCK : 670

LOCATION : PROSPECT CREEK
ELEVATION : 1493 - 1615 m

MAP SCALE : 1 : 15000
ECOL. CLASS : MS b1

ACTIVITY : SURVIVAL STAKED LINES
DATE : Estab. 89/06/19

GROSS AREA : 22.9

SEEDLOT 8077
PL/MP41

NP : 4 - 6 WEEK LINE #1 : _____ HECTARES 100%

LINE #2 : _____ 100%

...
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SILVICULTURE HISTORY

NEW #  OLD #
OBLIGATION : TENURE  : F.L. A18698
MAP REF.  : 92I 004 CUTTING PERMIT : 59
OPENING  : 28 BLOCK  : 670
LOCATION : PROSPECT CREEK ELEVATION  : 1493 - 1615 m
MAP SCALE : 1 : 15000 ECOL. CLASS : MS b1
ACTIVITY : SURVIVAL STAKED LINES DATE : Estab. 89/06/19

GROSS AREA : 22.9 HECTARES
SEEDLOT 8077
NP  : FALL ASSESSMENT LINE #1: 97%
H./MP41 LINE #2: 93%
1990 FALL ASSESSMENT LINE#1: 81.7%
LINE#2: 74.7%
SURVIVAL SURVEY SUMMARY

Tenure: F.L. A (8698)  
Year Planted: 1989  
C.P./Block: 59-670  
Area Planted (ha): 2.9  
Mapsheet/Opening #: 92E009-28  
Seedlot #: 8077  
Location: Prospect  
Species: P1  
Ecol. Class.: M5dm-1  
Age/Stock Type: MP+1  
Minimum Stocking: 700  
Planted Stocking (#/ha): See below  
Treatment Type & Year: BBroad - BB / none  
Total Well Spaced (#/ha):  

Survival Survey Type: Line - Planting Trial  
Block representing this record (if Walkthrough):  
Date of Survey: Aug 27/90  

<table>
<thead>
<tr>
<th>SPP.</th>
<th>S.L.</th>
<th>STOCK TYPE AND AGE</th>
<th>C.P./BLOCC</th>
<th>TREATMENT</th>
<th>#/HA PLANTED</th>
<th>% SURVIVAL BLOCK CONTROL</th>
<th>AVE. GROWTH BLOCK CONTROL</th>
<th>EXPECTED SURVIVAL/HA</th>
<th>TOTAL HEIGHT</th>
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<tbody>
<tr>
<td>P1</td>
<td>8077</td>
<td>MP + 1</td>
<td>59-670</td>
<td>B. Burn</td>
<td>1200</td>
<td>81.7 N/A</td>
<td>7.0 N/A</td>
<td></td>
<td>18.0</td>
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<tr>
<td>P1</td>
<td>8077</td>
<td>MP + 1</td>
<td>59-670</td>
<td>N/A</td>
<td>2000</td>
<td>74.7 N/A</td>
<td>7.3 N/A</td>
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<td>18.7</td>
</tr>
</tbody>
</table>

Comments: Considerably higher brush levels were noted in the untreated ground (grass) - lead to more cattle damage; higher variability in growth noted on untreated ground

Recommendations: Recce 91