

REPORT SX 8001Q

INTERIM

FINAL

DATE _____

TITLE Cooperative Bullet-Plug Trial

Report prepared by: *Ed Elmes* (Signature)

Ed Elmes (Typed)

Report & Distribution approved by: _____ (Signature) (for Regions -
Silviculture Officer)
_____ (Typed)

- (a) Wide Distribution
- (b) Limited
 - (i) Internal - Branch only
 - (ii) External - Designated
 - (iii) Ministry only

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Approved: _____
Manager - _____ (Signature) (for Regions - Forestry Manager)
_____ (Typed)

Planting Trial Sx8001Q

Plantation: 92H14-12, Pennask Creek, Penticton District, Kamloops Region

Species: P1

Seedlot: 3130

Stock Classes: 1+0 PSB211 Vernon
1+0 PSB211 Green Timbers
1+0 CBW210
1+0 MP

Planting Dates: 80.06.03 - 80.06.17

Assessment Dates: 80.07.23, 80.09.16, 81.10.06 & 84.09.28

Fifth Year Survival & Condition (%):

	Survival	Good	Fair	Poor	Dead
PSB211 VR	88.0	75.4	9.7	2.9	12.0
PSB211 GT	89.0	73.0	8.5	7.5	11.0
CBW210	83.5	71.0	7.0	5.5	16.5
1+0 MP	84.0	78.5	2.5	3.0	16.0

Basis: PSB211 VR - 175 trees, others - 200 trees

Average Height Growth (cm):

	Planting Ht.	5th Year Ht.	Increment
PSB211 VR	12.7	64.4	51.7
PSB211 GT	12.6	61.0	48.5
CBW210	6.3	42.0	35.7
1+0 MP	12.7	54.6	41.9

Environmental Damage (% of Living):

	Multiple Leaders	Dead Tops
PSB211 VR	13.0	4.5
PSB211 GT	26.4	29.8
CBW210	18.0	22.8
1+0 MP	11.3	26.8

Total Damage over 5 Years (% of Total Planted):

	Browsed	Trampled	Dead Tops
PSB211 VR	6.9	5.1	22.9
PSB211 GT	6.5	3.0	51.0
CBW210	4.0	2.0	31.5
1+0 MP	3.0	2.5	32.0

Factors of Performance: Survival after 5 years is not significantly different. Overall seedling conditions are similar.

The two plug stocks and the mudpacks maintain a greater overall height than the CBW210's. However if one takes incremental growth as a percent of planting height the CBW210's have outperformed the others.

Damage to terminals of all stocks has caused a large number of dead tops with resultant multiple leaders. This may have been caused by a lack of snow cover created by winds which appear to blow continuously in this area.