

SPU # 14 **Interior Spruce** **Prince George** **600 - 1400m**

Breeding and orchard production

Adjusted for new Parent Tree Area of use. Previously 600-1200m

Seedling need (million): 32.5

Program category: Advanced-generation

filename: 14 Sx PG low Aug 31/10

STRATEGY

Parent tree selection in wild stands; open-pollinated progeny tests on multiple sites. Several test series combined for selection of best parents for seed orchards and for advanced-generation breeding population. Focus on stem volume, wood density, and weevil resistance. Open-pollinated seed orchards, with specific parental collections.

TRAITS

Primary: Stem volume **Secondary: Wood density, weevil**

TESTING AND PRODUCTION

Production Year (July 1 to June 30) -- (Cone harvest year shown)

Parents in progeny test:

	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29
Open pollin.	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136	1136
Polycross																				
Clonal																				
F1	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231
F2	60	60	60	60	60	60	200	200	200	200	200	200	200	200	200	200	200	200	200	200
F3																				

Production forecast (million plantables)

Orchards (#, owner)	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29
205 MFR (Skimikin) Orchard retired 2003																				
206 MFR (Skimikin) Orchard retired 2003																				
209 MFR (Kalamalka) Orchard retired 2003																				
211 VSOC (Vernon)	7.1	7.5	7.9	9.5	10.1	11.1	12.2	13.6	14.3	15.1	15.9	16.7	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
214 VSOC (Vernon)	5.2	5.2	5.4	5.5	5.6	5.7	7.0	7.3	8.0	8.8	9.6	10.6	11.6	12.5	13.5	15.0	15.0	15.0	15.0	15.0

Vegetative prod.:

Phase 1
Phase 2

Estimated gain in primary trait

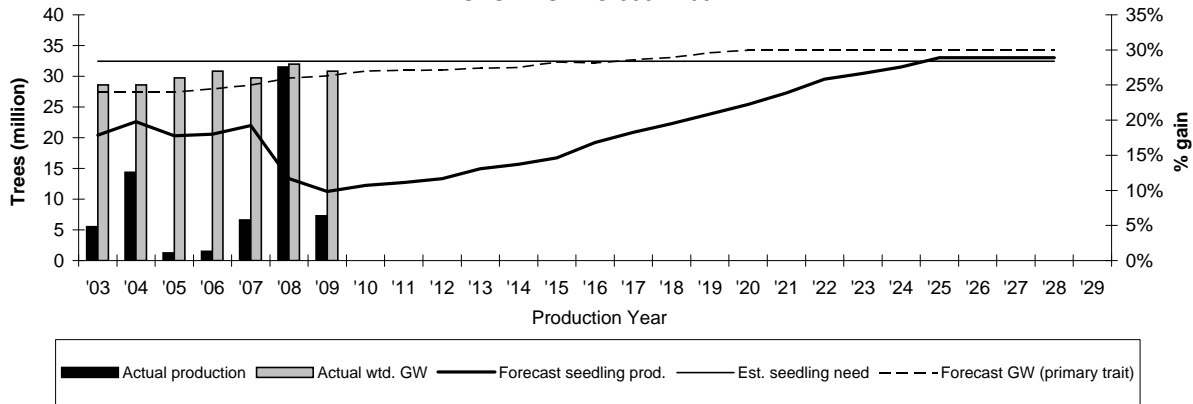
Orchards (#, owner)	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29
205 MFR (Skimikin) Retired 2003																				
206 MFR (Skimikin) Retired 2003																				
209 MFR (Kalamalka) Retired 2003																				
211 VSOC (Vernon)	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
214 VSOC (Vernon)	23%	23%	23%	23%	23%	25%	25%	26%	27%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%

Vegetative prod.:

Phase 1
Phase 2

Total Production	12.2	12.7	13.3	15.0	15.7	16.7	19.2	20.9	22.3	23.9	25.4	27.3	29.6	30.5	31.5	33.0	33.0	33.0	33.0	33.0
Total gain	27%	27%	27%	27%	28%	28%	28%	29%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%

Estimated orchard gain and production
SPU 14 Sx PG 600-1400m



Seed production estimates are subject to change. When using this information for silviculture planning or timber supply analysis, contact the Tree Improvement Branch of the Ministry of Forests and Range to confirm data. See SeedMap on www.for.gov.bc.ca/hti/seedmap for current inventory by Seed Planning Unit

