

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): 35.1**
Program category: Advanced-generation filename: 14 Sx PG low July 12, 2015

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)**

	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
Parents in progeny test:																				
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	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
F3																				

Production forecast (million plantables)

Orchards (#, owner)	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
211 VSOC (Vernon)	4.8	3.3	3.7	4.2	4.8	5.6	6.3	6.9	7.4	8.1	9.0	9.9	10.8	11.4	11.8	11.9	11.9	11.9	11.9	11.9
214 VSOC (Vernon)	0.3	0.7	1.2	1.9	2.7	3.7	5.0	6.4	7.9	9.0	9.9	10.4	10.6	10.7	10.7	10.7	10.7	10.7	10.7	10.7

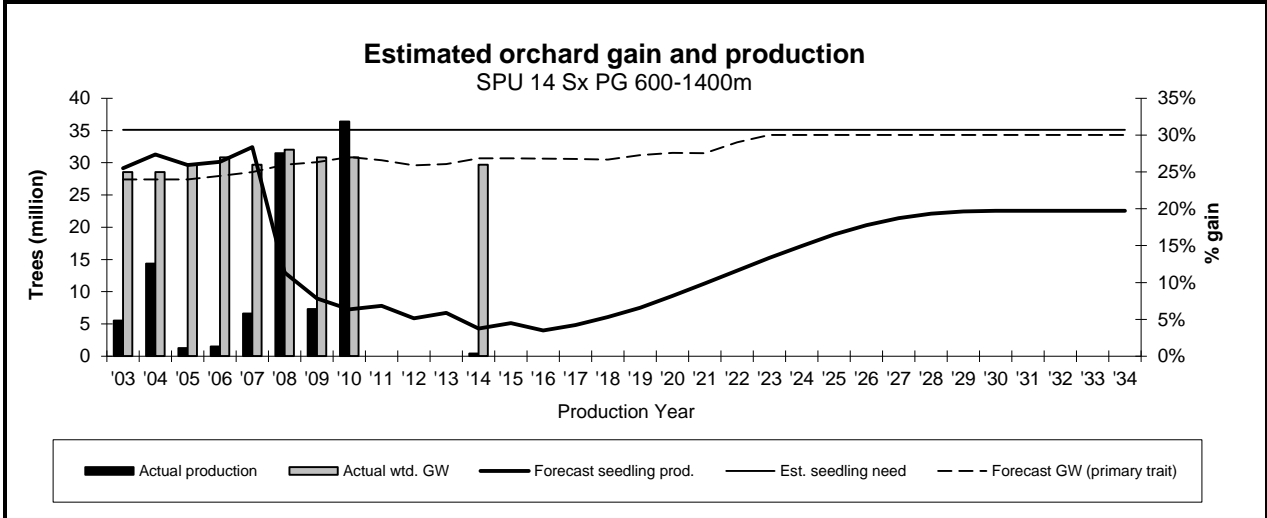
Vegetative prod.:
Phase 1
Phase 2

Estimated gain in primary trait

Orchards (#, owner)	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
211 VSOC (Vernon)	27%	27%	27%	27%	28%	28%	28%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
214 VSOC (Vernon)	25%	26%	26%	26%	26%	27%	27%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%

Vegetative prod.:
Phase 1
Phase 2

Total Production	5.1	4.0	4.8	6.1	7.5	9.3	11.3	13.3	15.2	17.1	18.9	20.3	21.4	22.1	22.4	22.5	22.5	22.5	22.5	22.5
Total gain	27%	27%	27%	27%	27%	28%	28%	29%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%



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 Lands and Natural Resource Operations to confirm data. See SeedMap on www.for.gov.bc.ca/hti/seedmap for current inventory by Seed Planning Unit

