

SPU # 5 **Interior Spruce Nelson 1500 - 1900m**
Breeding and orchard production
Seedling need (million): 5.1
Program category: Advanced-generation filename: 5 Sx NE high June 30/08

STRATEGY Selection in wild stands; polycross progeny tests for old Shuswap Adam and West Kootenay zones. Focus on volume, wood density, and weevil resistance. Backward selection of best parents for seed orchards.

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

TESTING AND PRODUCTION **Production Year (July 1 to June 30) -- (Cone harvest year shown)**

	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27
Parents in progeny test:																				
Open pollin.	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Polycross	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256
Clonal																				
F1		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
F2																				
F3																				

Production forecast (million plantables)

Orchards (#, owner)	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27
302 MoFR (Skimikin)	2.0	2.3	2.2	2.3	2.3	2.4	2.8	3.0	3.1	3.3	3.5	3.6	3.7	3.8	3.9	3.9	3.9	3.9	2.1	2.1
306 MoFR (Kalamalka)	3.0	3.1	3.3	3.4	3.4	1.3	1.4	1.6	1.8	2.4	2.6	2.9	3.0	3.4	3.7	3.9	4.1	4.4	4.4	4.4
304 MoFR (Kalamalka)*	0.6	0.9	1.0	1.2	1.3	1.4	1.5	0.9	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.7

* 50% of total orch. prodn.

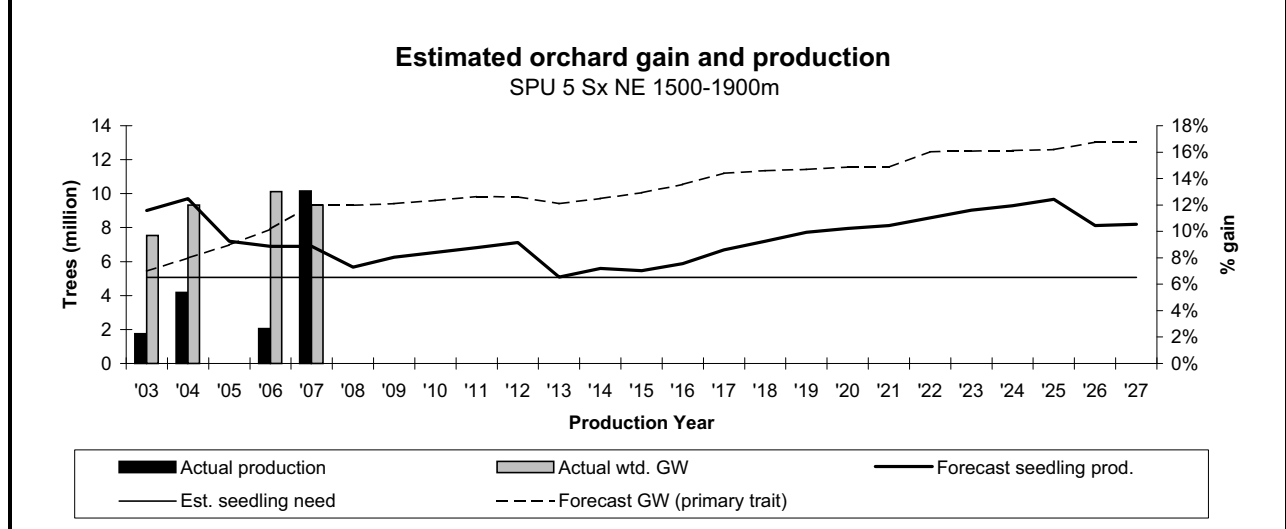
Vegetative prod.:
Phase 1
Phase 2

Estimated gain in primary trait

Orchards (#, owner)	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27
302 MoFR (Skimikin)	6%	7%	7%	8%	8%	10%	11%	11%	12%	12%	12%	12%	12%	12%	14%	14%	14%	14%	14%	14%
306 MoFR (Kalamalka)	16%	16%	16%	16%	16%	16%	16%	16%	16%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%
304 MoFR (Kalamalka)*	12%	12%	12%	12%	12%	12%	12%	14%	14%	14%	15%	15%	16%	16%	17%	17%	17%	17%	17%	17%

Vegetative prod.:
Phase 1
Phase 2

Total production	5.7	6.2	6.5	6.8	7.1	5.1	5.6	5.5	5.9	6.7	7.2	7.7	7.9	8.1	8.6	9.0	9.3	9.7	8.1	8.2
Total gain	12%	12%	12%	13%	13%	12%	12%	13%	14%	14%	15%	15%	15%	15%	16%	16%	16%	16%	17%	17%



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

