

SPU # 4 **Interior Spruce Nelson 1000-1500m**
Breeding and orchard production
Seedling need (million): 4.9
Program category: Advanced-generation filename: 4 Sx NE mid June 30/08

STRATEGY Parent tree selection in wild stands; polycross and open-pollinated progeny tests for old Shuswap Adams and West Kootenay zones. Focus on stem volume, wood density, and weevil resistance. Backward selection of best parents to open-pollinated 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.																				
Polycross	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
Clonal																				
F1			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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
301 MoFR (Skimikin)	1.6	1.9	1.9	2.1	2.1	2.2	2.5	2.7	2.9	3.2	3.4	3.5	3.6	3.7	3.7	3.8	3.8	3.8	3.8	3.8
305 MoFR (Kalamalka)	3.1	2.5	2.8	2.9	3.0	3.2	3.4	3.7	4.0	4.2	4.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
304 MoFR (Kalamalka)*	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2									
*Portion of orchard prodn.																				
new F1 orchards													0.0	0.0	0.0	0.1	0.1	1.1	1.3	1.6

Seed from orchards 301, 304 and 305 may be used down to 800m elevation (see SPU #44 Sx NE low)

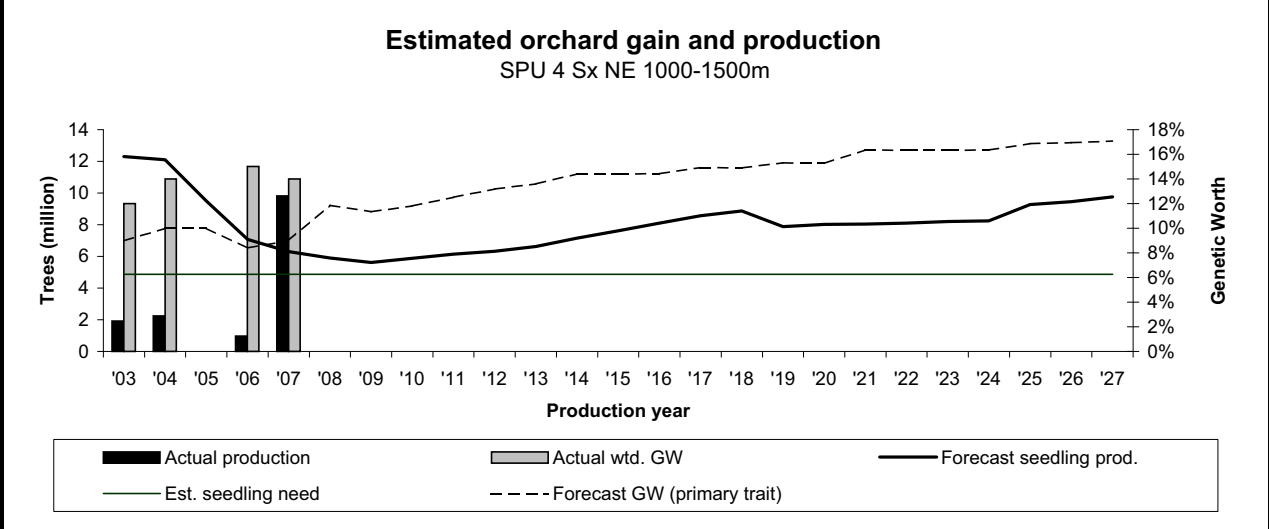
Vegetative prod.:
Phase 1
Phase 2
Estimated gain in primary trait

Orchards

Orchards	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27
301 MoFR (Skimikin)	6%	6%	7%	8%	10%	11%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%
305 MoFR (Kalamalka)	15%	15%	15%	16%	16%	16%	17%	17%	17%	18%	18%	18%	18%	20%	20%	20%	20%	20%	20%	20%
304 MoFR (Kalamalka)*	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%									
new F1 orchard													21%	21%	21%	21%	21%	21%	21%	21%

Vegetative prod.:
Phase 1
Phase 2

Total Production	5.9	5.6	5.9	6.1	6.3	6.6	7.2	7.6	8.1	8.6	8.9	7.9	8.0	8.0	8.1	8.2	8.2	9.3	9.5	9.8
Total gain	12%	11%	12%	13%	13%	14%	14%	14%	14%	15%	15%	15%	15%	16%	16%	16%	16%	17%	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

