

<b>SPU # 4</b>	<b>Interior Spruce</b>	<b>Nelson</b>	<b>1000-1700m</b>
<b>Breeding and orchard production</b>			
Adjusted for new Parent Tree Area of use. Previously 1000-1500m			
			<b>Seedling need (million): 9.7</b>
<b>Program category: Advanced-generation</b>			
filename: 04 Sx NE mid Sept 2017.xlsx			

**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.

<b>TRAITS</b>	<b>Primary:</b>	<b>Stem volume</b>	<b>Secondary:</b>	<b>Wood density, weevil</b>
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<b>TESTING AND PRODUCTION</b>	<b>Production Year (July 1 to June 30) -- (Cone harvest year shown)</b>																			
	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36

<b>Parents in progeny test:</b>																				
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	100	100
F2																				
F3																				

**Production forecast (million plantables)**

<b>Orchards (#, owner)</b>																				
301 FLNRO (Skimikin)	Orchard retired																			
305 FLNRO (Kalamalka)	9.9	10.3	10.5	10.7	10.8	10.9	11.1	11.1	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
304 FLNRO (Kalamalka)	Orchard retired																			
New F1 orchard																				

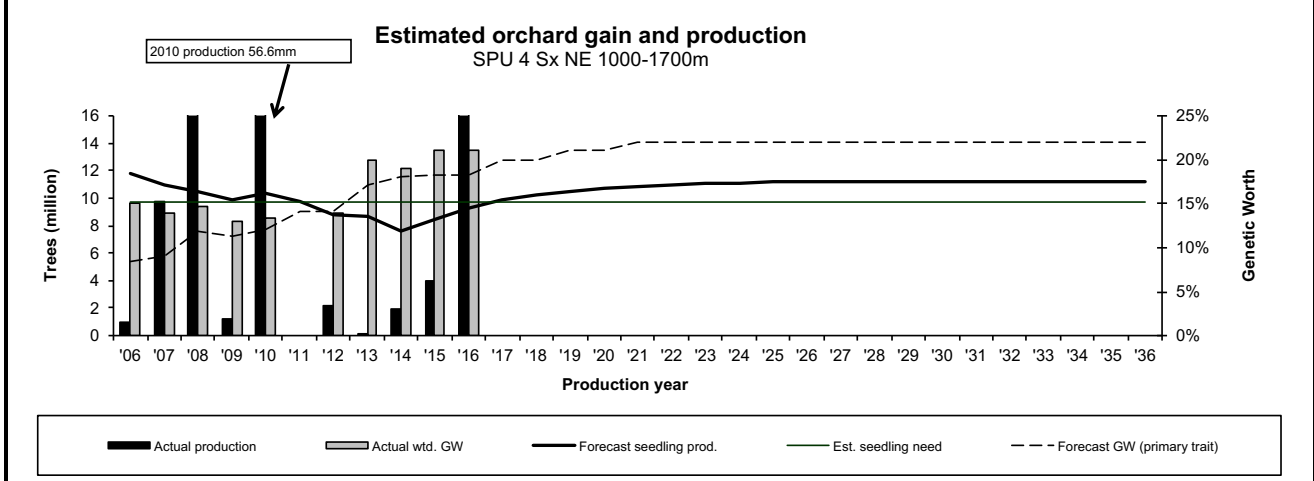
Seed from orchards 301 and 305 may be used down to 800m elevation (also see SPU #44 Sx NE) low)

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

<b>Orchards</b>																				
305 FLNRO (Kalamalka)	20%	20%	21%	21%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%

Vegetative prod.:  
 Phase 1  
 Phase 2

<b>Total Production</b>	9.9	10.3	10.5	10.7	10.8	10.9	11.1	11.1	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
<b>Total gain</b>	20%	20%	21%	21%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%



The above forecasts are based on orchard status, seed inventories and seed use as of June, the year of publication, and are subject to change. Refer to the seed Planning and Registry System (SPAR) or contact the orchard manager for current seed inventories. Contact the Forest Improvement and Research Mgt. Branch, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, to confirm data if used for silviculture or timber-supply planning.

