

SPU # 5	Interior Spruce	Nelson	1700 - 2100m
Breeding and orchard production			
Adjusted for new Parent Tree Area of use. Previously 1500-1900m			
Program category: Advanced-generation			Seedling need (million): 2.0
filename: 05 Sx NE high Sept 2017.xlsx			

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
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TESTING AND PRODUCTION	Production Year (July 1 to June 30) -- (Cone harvest year shown)																			
	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36

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	60
F2																				
F3																				

Production forecast (million plantables)

Orchards (#, owner)

302 MFLNRO (Skimikin)	Orchard retired																			
306 MFLNRO (Kalamalka)	5.6	6.0	6.2	6.3	6.4	6.6	6.9	7.2	7.6	8.0	8.6	9.4	10.2	11.1	11.6	11.9	12.0	12.0	12.0	12.0
304 MFLNRO (Kalamalka)*	Orchard retired																			

Vegetative prod.:
Phase 1
Phase 2

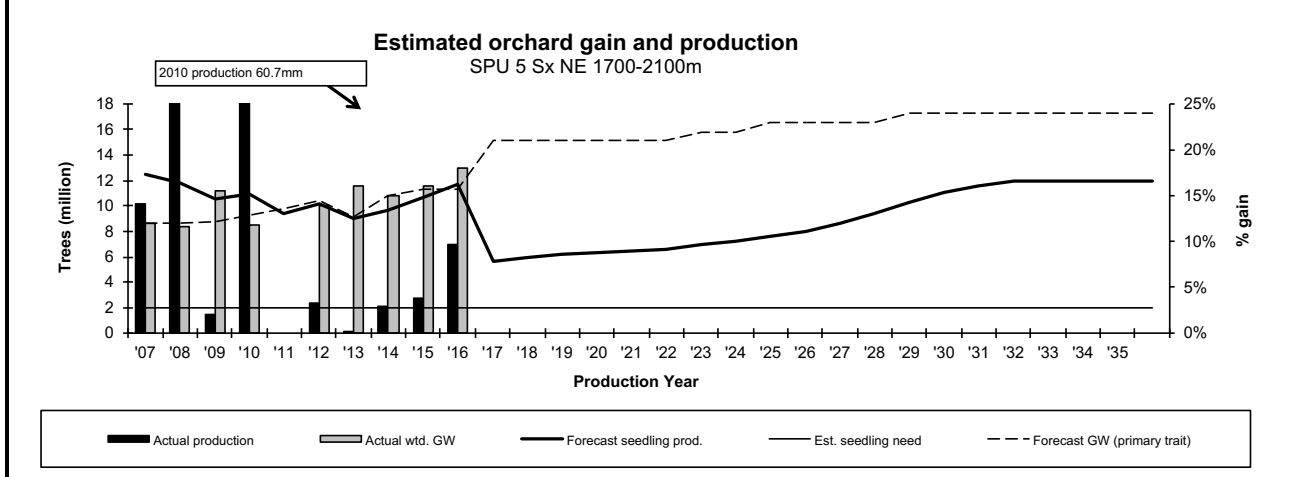
Estimated gain in primary trait

Orchards (#, owner)

306 MFLNRO (Kalamalka)	21%	21%	21%	21%	21%	21%	22%	22%	23%	23%	23%	23%	24%	24%	24%	24%	24%	24%	24%	24%
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Vegetative prod.:
Phase 1
Phase 2

Total production	5.6	6.0	6.2	6.3	6.4	6.6	6.9	7.2	7.6	8.0	8.6	9.4	10.2	11.1	11.6	11.9	12.0	12.0	12.0	12.0
Total gain	21%	21%	21%	21%	21%	21%	22%	22%	23%	23%	23%	23%	24%	24%	24%	24%	24%	24%	24%	24%



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.

