

SPU # 37	Interior Douglas-fir	Quesnel Lakes	700 - 1400m
Breeding and Orchard Production			Seedling need (million): 1.2
Adjusted for new Parent Tree Area of use. Previously 700-1200m			
Program category: First-generation			filename: 37 Fdi QL low Sept 2017.xlsx

STRATEGY Parent-tree selection in wild stands within the QL zone. Progeny tests using open-pollinated seed from selected parents. Focus on stem volume while maintaining wood density. Selection of best parents for seed orchards based on progeny test data. No advanced-generation breeding planned.

TRAITS	Primary: Stem volume	Secondary: Wood density
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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.	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
Polycross																				
Clonal																				
F1																				
F2																				
F3																				

Production forecast (million plantables)

Orchards (#, owner)																				
226 VSOC	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
232 VSOC / SelectSeed	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8

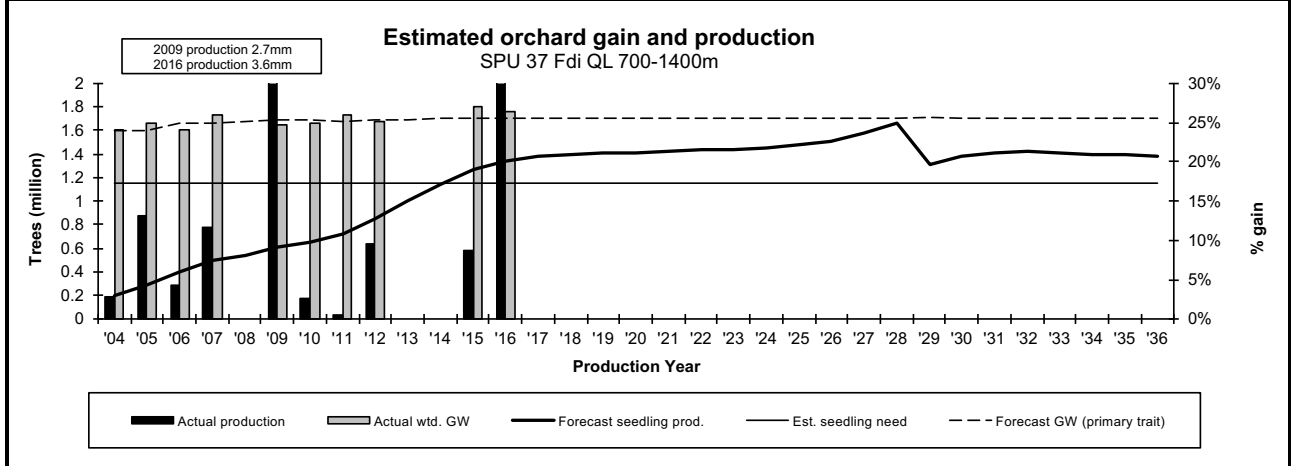
Vegetative prod.:
Phase 1
Phase 2

Estimated gain in primary trait

Orchards (#, owner)																				
226 VSOC	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
232 VSOC / SelectSeed	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%

Vegetative prod.:
Phase 1
Phase 2

Total Production	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Total gain	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%



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.

