

SPU # 15	Western White Pine	Kootenay/Quesnel	500 - 1400m
Breeding and orchard production			
Program category: Advanced-generation			Seedling need (million)*: 1.5
			* estimated demand with resistant stock filename: 15 Pw KQ all July 12, 2015

STRATEGY Selection of parents exhibiting rust resistance in wild stands. Extensive ex-situ rust screening and in-situ field testing in Canadian Forest Service and USDA Idaho operated breeding programs. All orchard parents selected based on offspring resistance.

TRAITS Primary: Rust resistance Secondary: Stem volume

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

Parents in progeny test:
 Open pollin.
 Polycross
 Clonal
 F1
 F2
 F3

Production forecast (million plantables)

Orchards (#, owner)	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
335 FLNRO (Kalamalka)	2.3	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	Orchard to be retired										
609 FLNRO (Skimikin)	0.6	0.6	0.6	0.6	0.6	0.6	Orchard to be retired													
351 FLNRO (Skimikin)	0.0	0.1	0.1	0.1	0.2	0.2	0.4	0.6	0.8	1.1	1.4	1.8	2.0	2.1	2.2	2.2	2.3	2.3	2.3	2.3

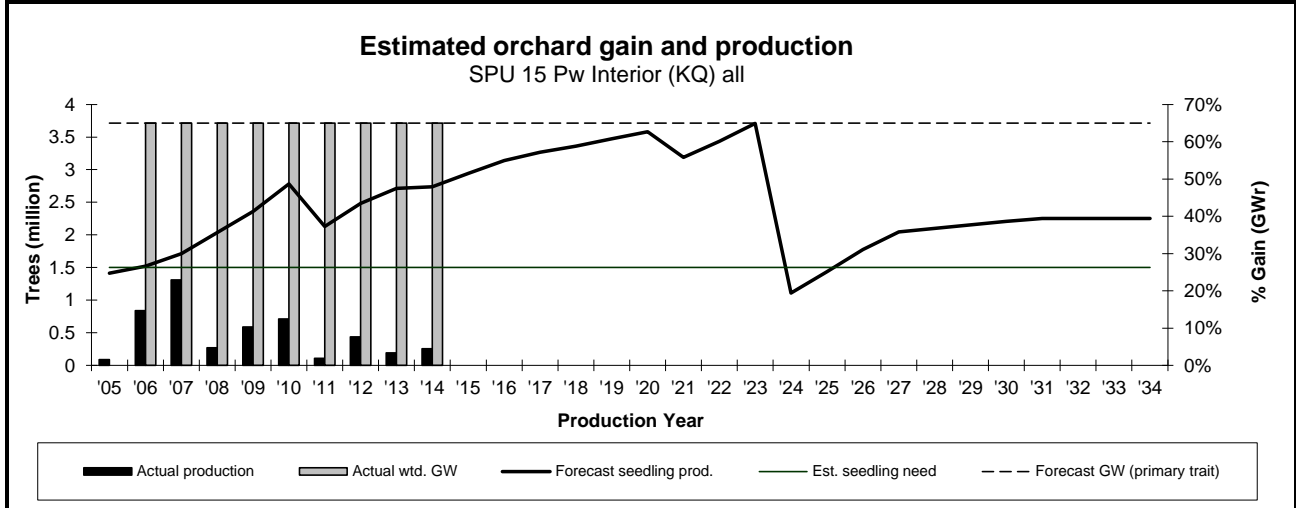
Vegetative prod.:
 Phase 1
 Phase 2

Estimated gain in primary trait (GWr - resistance to blister rust)

Orchards (#, owner)	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	
335 FLNRO (Kalamalka)	65%	65%	65%	65%	65%	65%	65%	65%	65%												
609 FLNRO (Skimikin)	65%	65%	65%	65%	65%	65%															
351 FLNRO (Skimikin)	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%

Vegetative prod.:
 Phase 1
 Phase 2

Total Production	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	
Total gain	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%	65%



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 Lands and Natural Resource Operations to confirm data. See SeedMap on www.for.gov.bc.ca/hti/seedmap for current inventory by Seed Planning Unit

