

**SPU # 17**      **Interior Lodgepole Pine**      **Bulkley Valley**      **700 - 1400m**

**Breeding and orchard production**

Adjusted for new Parent Tree Area of use. Previously 700-1200m

**Seedling need (million): 22.4**

**Program category: Advanced-generation**

filename: 17 Pli BV low Sept 2017.xlsx

**STRATEGY**

Parent-tree selection in wild stands; OP testing to rank parents for second-gen breeding and seed orchards; breeding for growth and wood density; forward selections from second-gen testing based on growth for third-gen breeding and advanced-gen seed orchards; screen families for disease resistance.

**TRAITS**

**Primary:**      **Stem volume**      **Secondary:**      **Wood density**

**TESTING AND PRODUCTION**

**Production Year (July 1 to June 30) -- (Cone harvest year shown)**

**Parents in progeny test:**

	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36
Open pollin.	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295
Polycross																				
Clonal																				
F1	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
F2	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
F3																				

**Production forecast (million plantables)**

**Orchards (#, owner)**

219 VSOC (Vernon)	2.8	2.8	2.8	2.8	Orchard to be retired																
228 FLNRO (PGTIS)	1.3	Orchard to be retired																			
234 VSOC/SelectSeed	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
240 Sorrento/Selectseed	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
230 FLNRO (Kalamalka)	2.1	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.1	3.2	3.3	3.3	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.7	
245 VSOC (Quesnel)	0.6	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.3	4.5	4.5	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.3	4.2	

**Vegetative prod.:**

Phase 1  
Phase 2

**Estimated gain in primary trait**

**Orchards (#, owner)**

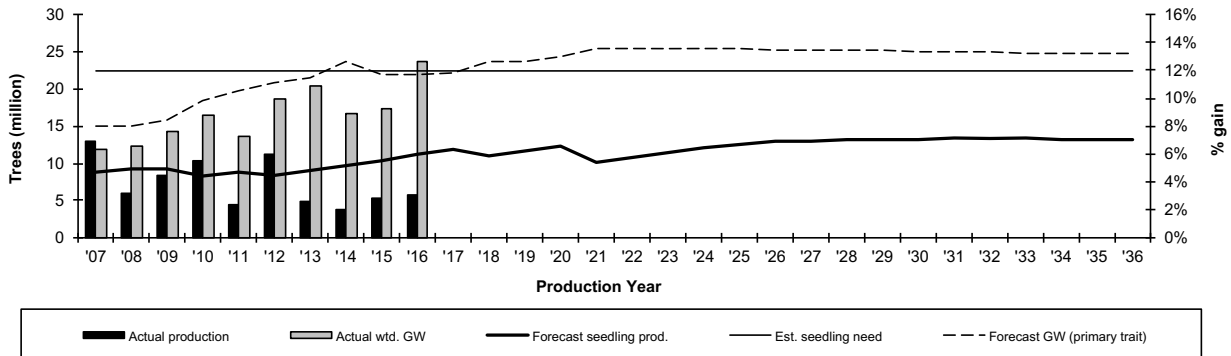
219 VSOC (Vernon)	11%	11%	11%	11%																
228 FLNRO (PGTIS)	6%																			
234 VSOC/SelectSeed	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
240 Sorrento/Selectseed	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
230 FLNRO (Kalamalka)	7%	7%	7%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
245 VSOC (Quesnel)	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%

**Vegetative prod.:**

Phase 1  
Phase 2

<b>Total Production</b>	11.8	11.1	11.7	12.3	10.1	10.8	11.5	12.1	12.6	12.9	13.1	13.1	13.2	13.2	13.3	13.3	13.3	13.3	13.2	13.2
<b>Total gain</b>	12%	13%	13%	13%	14%	14%	14%	14%	14%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%

**Estimated orchard gain and production**  
SPU 17 Pli BV 700-1400m



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.

