

**SPU # 19**      **Douglas Fir**      **Submaritime**      **400-1200m**  
 Breeding and orchard production  
**Seedling need (million)\*: 1.1**  
 \* Need south of 51 degrees only  
 filename: 19 Fdc SM low Aug 31/10

**Program Category: First-generation**

**STRATEGY**      First generation non-tested orchards. Genecology testing to refine seed transfer guidelines and zone boundaries. Orchards focus on areas south of 51 degrees latitude, and up to 1200 m elevation.

**TRAITS**      Primary: Stem volume      Secondary: Adaptive (frost and drought)

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

**Parents in progeny test:**

Open pollin.																				
Polycross	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Clonal																				
F1																				
F2																				
F3																				

**Production forecast (million plantables)**

Orchards (#, owner)

12 Retired																				
181 MFR (Puckle Rd)	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5

**Vegetative prod.:**  
 Phase 1  
 Phase 2

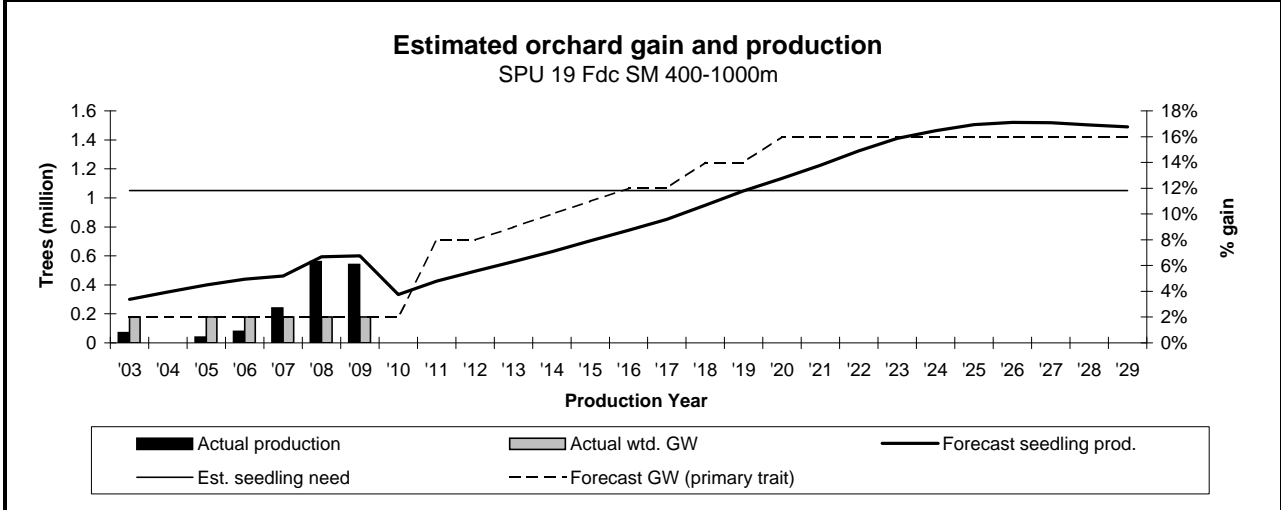
**Estimated gain in primary trait**

Orchards (#, owner)

181 MFR (Puckle Rd)	2%	8%	8%	9%	10%	11%	12%	12%	14%	14%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
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**Vegetative prod.:**  
 Phase 1  
 Phase 2

<b>Total Production</b>	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5
<b>Total gain</b>	2%	8%	8%	9%	10%	11%	12%	12%	14%	14%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%



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 and Range to confirm data. See SeedMap on [www.for.gov.bc.ca/hti/seedmap](http://www.for.gov.bc.ca/hti/seedmap) for current inventory by Seed Planning Unit

