

<b>SPU # 1</b>	<b>Douglas-fir</b>	<b>Maritime</b>	<b>1 - 900m</b>
<b>Breeding and Orchard Production</b>			
Adjusted for new Parent Tree Area of use. Previously 1-700m			
<b>Program category: Advanced-generation</b>			<b>Seedling need (million): 14.7</b>
			* Includes Georgia Lowlands (GL)
filename: 01 FdcM low Sept 2017.xlsx			

**STRATEGY** Full-sib F1 diallel tests planted 1975 to 1985; OP tests 1986 and 1987; F2 design using small sublines with forward selections from all F1 test series; currently over 3/4 established. Focus on stem volume while maintaining stem form and wood density. Upgrade orchards as information and selections allow.

<b>TRAITS</b>	<b>Primary: Stem volume</b>	<b>Secondary: Wood density, stem form</b>
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<b>TESTING AND PRODUCTION</b>	<b>Production Year (July 1 to June 30) -- (Cone harvest year shown)</b>																			
	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36

<b>Parents in progeny test:</b>																			
Open pollin.	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Polycross	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
Clonal																			
F1	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372
F2	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
F3	220	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	331.579	331.579	331.579

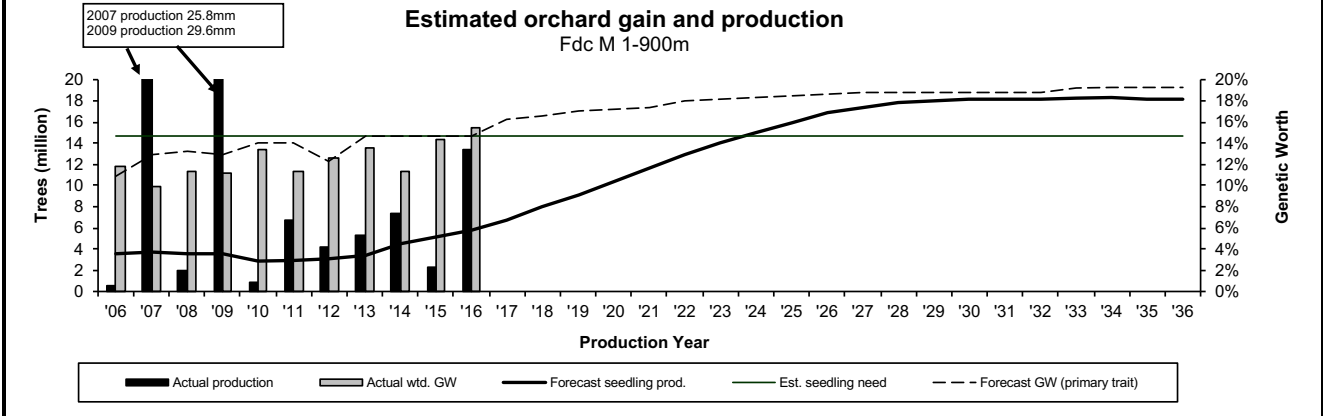
<b>Production forecast (million plantables)</b>																			
<b>Orchards (#, owner)</b>																			
134 TW (Mt Newton)	1.7	1.8	1.9	2.0	2.1	2.2	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
154 TW (Mt Newton)	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
166 WFP (SFC)	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
405 WFP (SFC)	0.5	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
183 TW (Mt Newton)	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
197 TW (Mt Newton)	1.6	2.1	2.5	3.0	3.4	3.9	4.3	4.6	5.0	5.3	5.6	5.8	5.9	6.0	6.0	6.0	6.0	6.0	6.0
199 FLNRO (Saanich)	0.5	0.7	1.0	1.4	1.8	2.1	2.4	2.7	3.0	3.2	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

**Vegetative prod.:**  
Somatic embplings

<b>Estimated gain in primary trait</b>																			
<b>Orchards (#, owner)</b>																			
134 TW (Mt Newton)	15%	15%	16%	16%	16%	16%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	18%	18%	18%
154 TW (Mt Newton)	13%	13%	13%	13%	14%	14%	14%	14%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
166 WFP (SFC)	16%	17%	17%	17%	17%	18%	18%	19%	19%	19%	19%	19%	19%	19%	19%	19%	20%	20%	20%
405 WFP (SFC)	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	20%	20%	20%	20%	20%	20%	20%	20%	20%
183 TW (Mt Newton)	15%	15%	16%	16%	16%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	17%	18%	18%	18%
197 TW (Mt Newton)	18%	18%	18%	18%	18%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	20%	20%	20%
199 FLNRO (Saanich)	20%	20%	20%	20%	20%	20%	20%	20%	20%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%

**Vegetative prod.:**  
Somatic embplings

<b>Total Production</b>	6.7	7.9	9.2	10.4	11.7	12.9	14.0	15.0	16.0	16.8	17.4	17.8	18.0	18.1	18.2	18.2	18.3	18.2	18.2
<b>Total gain</b>	16%	17%	17%	17%	17%	18%	18%	18%	18%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%



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.

