

<b>SPU # 42</b>	<b>Interior Spruce</b>	<b>Prince George</b>	<b>1200 - 1550m</b>																	
<b>Breeding and Orchard Production</b>																				
<b>Program category: First-generation</b>			<b>Seedling need (million): 3.4</b>																	
filename: 42 Sx PG high July 12, 2015																				
<b>STRATEGY</b>	Parent-tree selection in wild stands from PG zone. Open-pollinated progeny tests using seed from selected parents. Focus on stem volume, wood density, and weevil resistance. Provenance information available. Overlap of tested material with PG low SPU. Best parents based on progeny-test performance used in seed orchards.																			
<b>TRAITS</b>	<b>Primary: Stem volume</b>	<b>Secondary: Wood density, stem form</b>																		
<b>TESTING AND PRODUCTION</b>	<b>Production Year (July 1 to June 30) -- (Cone harvest year shown)</b>																			
	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
<b>Parents in progeny test:</b>																				
Open pollin.	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080
Polycross																				
Clonal																				
F1	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
F2																				
F3																				
<b>Production forecast (million plantables)</b>																				
<b>Orchards (#, owner)</b>																				
214 VSOC (Vernon)	Orchard replaced and producing for lower elevations only																			
239 VSOC	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
<b>Vegetative prod.:</b>																				
Phase 1																				
Phase 2																				
<b>Estimated gain in primary trait</b>																				
<b>Orchards (#, owner)</b>																				
214 VSOC (Vernon)																				
239 VSOC	14%	14%	14%	14%	15%	15%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
<b>Vegetative prod.:</b>																				
Phase 1																				
Phase 2																				
<b>Total Production</b>	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
<b>Total gain</b>	14%	14%	14%	14%	15%	15%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
<b>Estimated orchard gain and production</b> SPU 42 Sx PG 1200-1550m																				
<span style="display: inline-block; width: 15px; height: 10px; background-color: black; border: 1px solid black;"></span> Actual production <span style="display: inline-block; width: 15px; height: 10px; background-color: lightgrey; border: 1px solid black;"></span> Actual wtd. GW <span style="display: inline-block; width: 20px; border-bottom: 1px solid black;"></span> Forecast seedling prod. <span style="display: inline-block; width: 20px; border-bottom: 1px solid black;"></span> Est. seedling need <span style="display: inline-block; width: 20px; border-bottom: 1px dashed black;"></span> Forecast GW (primary trait)																				
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 <a href="http://www.for.gov.bc.ca/hti/seedmap">www.for.gov.bc.ca/hti/seedmap</a> for current inventory by Seed Planning Unit																				

