

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.

## Interior Lodgepole Pine Bulkley Valley 700 - 1400m

Conservation -- Seed Orchards -- Seedling Use

SPU #17

**GENETIC CONSERVATION STATUS****Conservation statistics**

Seed planning unit (SPU) area	<b>3,442,345</b>	ha
Area protected within SPU	<b>516,127</b>	ha
Percentage of SPU area protected	<b>15%</b>	
Estimated genetic reserves with >5000 mature trees based on botanical sample data	<b>&gt;2</b>	
Confirmed genetic reserves with >5000 mature trees based on forest inventory data	<b>28</b>	

**Conservation status**

Current in-situ protection status: **Well protected**  
 Probability of maintaining > 3 protected areas with adequate population size given natural disturbance regimes: **Very high**

For further information visit <http://www.genetics.forestry.ubc.ca/cfgc/>

**ORCHARD STATUS**

Orchard location	Orchard number	Number of parents	Mean BV	# of ramets currently established	# of ramets planned for final orchard size	Target Seed production kg/y at maturity	Total Seedling Prod. million seedlings	
VSOC (Vernon)	219	71	11%	3,095	0	0.0	<b>0.00</b>	
FLNRO (PGTIS)	228	32	6%	1,127	1,127	8.0	<b>1.36</b>	
VSOC>SelectSeed	234	90	15%	2,773	3,000	15.8	<b>2.70</b>	
Sorrento>SelectSeed	240	82	16%	3,070	3,100	16.3	<b>2.79</b>	
FLNRO (Kalamalka)	230	77	7%	1,194	2,143	31.3	<b>5.36</b>	
VSOC (Quesnel)	245	43	15%	3,438	3,500	29.6	<b>5.08</b>	
								Reconfigured NST orchard
				<b>Total ramets</b>	<b>14,697</b>	<b>12,870</b>	<b>Total production</b>	<b>17.29</b>
Vegetative propagation						<b>Stecklings/Emblings</b>	<b>0.0</b>	
						<b>Total production</b>	<b>17.3</b>	

**Seed and Nursery Factors****Estimate of Required Orchard Capacity**

Expected annual average seedling production per ramet = 1,343	Annual planting (million seedlings)	22.4
Seed weight (seeds/gram) = 257	Planned over-production factor	1.3
Seedling recovery factor (seedlings/seed) = 0.67	Ramets required	16,688
Seedling recovery factor (seeds/seedling) = 1.50	Ramets required with over-capacity	21,694
	Projected necessary expansion	8,824

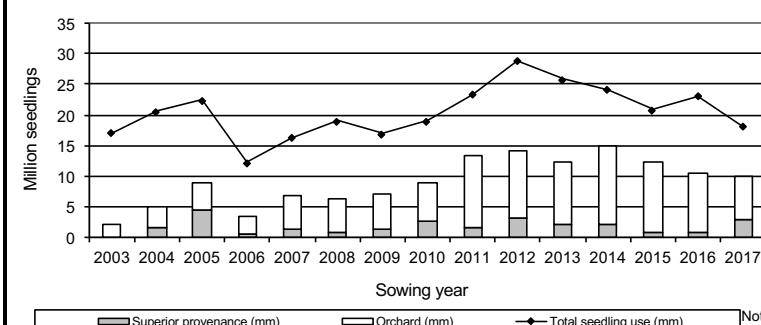
**Superior provenances (B+)** suitable for this Seed Planning Unit

Nechako River, Oie Lake, Telkwa Low, Udy Creek, Whittier Creek

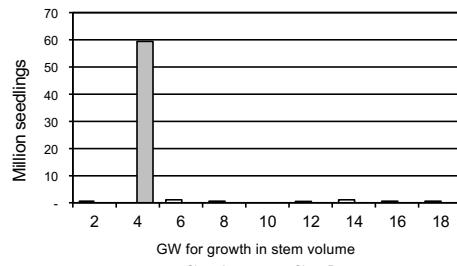
**SEEDLING USE AND SEED IN STORAGE**

Average 5-year seedling use from SPAR (2013 - 2017) **22.4** million  
 Estimated years of class-A seed in storage **0.2** years

Seedling Use Trend - 2003 to 2017



Seed in Storage by GW class



Notes:  
 - Seedling use data include 1/2 of adjacent overlap zones, where applicable  
 - Sowing year Aug 1 to July 31 (i.e. 2017 sowing year starts Aug 1, 2017)

- "Reserve" and "Available" seed in the Seed Planning and Registry System (SPAR) are included.
- Class A = seed orchard; Class B+ = superior provenance; Class B = wild stand seed.
- Genetic Wroth (GW) for growth means the projected additional wood volume available at rotation compared to using Class B seed.

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