



**Interior Lodgepole Pine Nelson 450 - 1600m****SPU #7****Conservation -- Seed Orchards -- Seedling Use****GENE CONSERVATION STATUS****Conservation statistics**

Seed planning unit (SPU) area	<b>2,049,372</b>	ha
Area protected within SPU	<b>131,798</b>	ha
Percentage of SPU area protected	<b>6%</b>	
Estimated genetic reserves with >5000 mature trees based on botanical sample data	<b>&gt;9</b>	
Confirmed genetic reserves with >5000 mature trees based on forest inventory data	<b>27</b>	

**Conservation status**Current in-situ protection status: **Very 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	Orchard retired
FLNRO (Kalamalka)	307	0		0	0	0.0	<b>0.00</b>	
PRT (Grandview)	313	46	16%	1,090	1,090	9.3	<b>1.58</b>	
PRT>SelectSeed	337	40	14%	988	989	8.4	<b>1.43</b>	
FLNRO (Bailey)	347	40	20%	1,804	2,022	14.3	<b>2.45</b>	
				<b>Total ramets</b>	<b>3,882</b>	<b>4,101</b>	<b>Total production</b>	<b>5.46</b>
Vegetative propagation							<b>Stecklings/Emblings</b>	<b>0.0</b>
							<b>Total production</b>	<b>5.5</b>

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

Expected annual average seedling production per ramet = 1,332	Annual planting (million seedlings)	2.6
Seed weight (seeds/gram) = 256	Planned over-production factor	1.3
Seedling recovery factor (seedlings/seed) = 0.67	Ramets required	1,974
Seedling recovery factor (seeds/seedling) = 1.50	Ramets required with over-capacity	2,567
	Projected necessary expansion	0

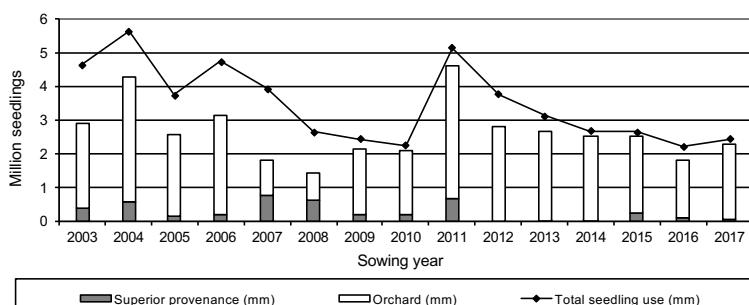
**Superior provenances (B+)** suitable for this Seed Planning Unit

Canoe Creek, Cartwright Lake, Champion Lakes, China Valley, Inonoaklin Creek, Larch Hills, Lossie Creek, Marl Creek, Rocky Mtn. Trench

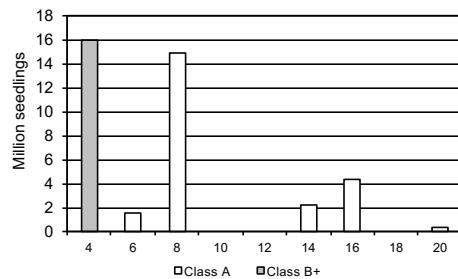
**SEEDLING USE AND SEED IN STORAGE**

Average 5-year seedling use from SPAR (2013 - 2017) **2.6** million  
 Estimated years of class-A seed in storage **8.9** years

Seedling Use Trend - 2003 to 2017



Seed in Storage by GW class



## Notes:

- Seedling use data prior to the 2000 sowing year are estimated from old seed planning zones and are approximate.
- 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)

## Notes:

- "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.

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.