

**SPU # 20****Lodgepole pine Nelson 1400 - 2000m****CONSERVATION -- GENECOLOGY -- SEEDLING USE****Annual planting (million): 2.7****Program category: Genecology**

Filename: 20 PII NE high July 1/08

**GENE CONSERVATION STATUS****Conservation statistics**

Seed planning unit (SPU) area	<b>1,935,247</b>	<b>ha</b>
Area protected within SPU	<b>257,203</b>	<b>ha</b>
Percentage of SPU area protected	<b>13%</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>17</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/>**GENECOLOGY****Issues:**

Breeding and orchard program costs are prohibitive at this time. No selection or testing of parents is underway.

**Provenance testing:**

Extensive provenance testing for lodgepole pine implemented across BC in the late 1960's and early 1970's.  
 Data from these tests have supported the development of seed transfer guidelines.

**Projects:**

Provenance test site maintenance and assessments are ongoing.

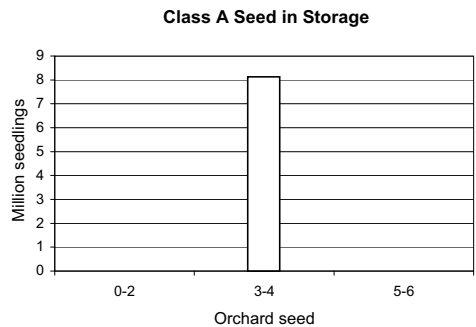
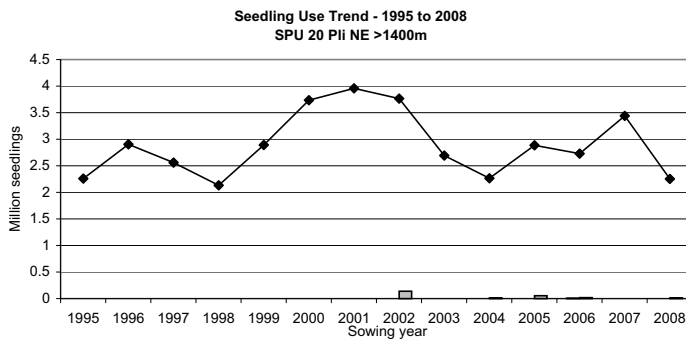
Seed-orchard realized-gain trials established for the Nelson and Thomson Okanagan low elevation, and the Thompson Okanagan high elevation programs include three test sites ranging from 1460 to 1850m. These will provide information on the potential for transferring orchard seed to higher elevation areas.

**Seed sources:**

Some B+ sources may be used in the lower elevation parts of this SPU if collections from the right elevations are available or can be made.  
 See *Chief Forester Standards for Seed Use (appendix 5) for ranges and limits to elevation transfer.*  
 Superior provenance (B+) sources suitable for this seed planning unit include: Cartwright Lake, Lossie Creek and Rocky Mountain Trench

**SEEDLING USE**

**Average 5-year seedling use from SPAR (2004 - 2008) 2.7 million**  
**Estimated years of select seed in storage 3.0 years**

**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: July 1 to June 30 (i.e. 2006 sowing year starts July 1, 2005)

**Notes:**

- Seed held in both "reserve" and "available" status in the Seed Planning and Registration (SPAR) system is included
- Seed inventories change with new orders. Data presented here are based on a June sample.
- For up-to-date information use SPAR, or contact the Tree Improvement Branch of the Ministry of Forests and Range