



#### GENE CONSERVATION STATUS

Conservation statistics

Seed planning unit (SPU) area	<b>1,785,807</b>	ha
Area protected within SPU	<b>89,171</b>	ha
Percentage of SPU area protected	<b>5%</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>13</b>	

## Conservation status

Current in-situ protection status: **Well protected**

Probability of maintaining > 3 protected areas with adequate population size given natural disturbance regimes:

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

ORCHARD STATUS

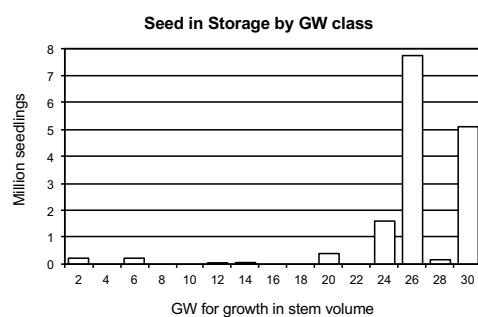
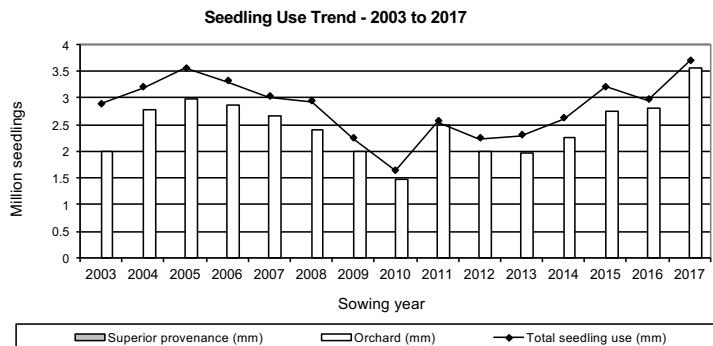
## **Seed and Nursery Factors**

## Estimate of Required Orchard Capacity

Expected annual average seedling production per ramet = 5,400	Annual planting (million seedlings)	3.0
Seed weight (seeds/gram) = 241	Planned over-production factor	1.3
Seedling recovery factor (seedlings/seed) = 0.45	Ramets required	547
Seedling recovery factor (seeds/seedling) = 2.20	Ramets required with over-capacity	711
	Projected necessary expansion	0

## **SEEDLING USE AND SEED IN STORAGE**

Average 5-year seedling use from SPAR (2013 - 2017)	3.0	million
Estimated years of class-A seed in storage	5.3	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: 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 Worth (GW) for rotation 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.