



GENETIC CONSERVATION STATUS

Conservation statistics

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Seed planning unit (SPU) area	11,644,978	ha
Area protected within SPU	255,930	ha
Percentage of SPU area protected	2%	
Estimated genetic reserves with >5000 mature trees based on botanical sample data	0	
Confirmed genetic reserves with >5000 mature trees based on forest inventory data	3	

## **Conservation status**

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

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

ORCHARD STATUS

## **Seed and Nursery Factors**

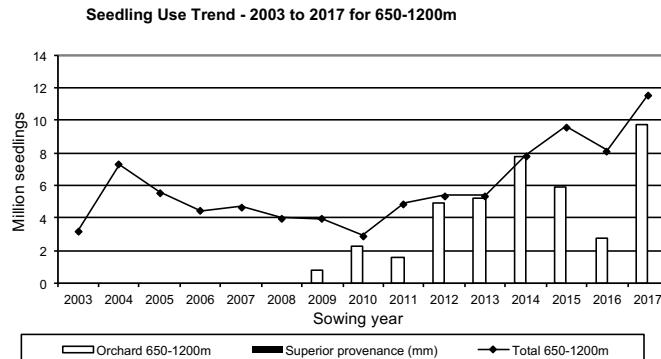
### **Estimate of Required Orchard Capacity**

Key factor	Estimate or Required Standard Capacity
Expected annual average seedling production per ramet = 6,000	Annual planting (million seedlings) 8.5
Seed weight (seeds/gram) = 394	Planned over-production factor 1.2
Seedling recovery factor (seedlings/seed) = 0.45	Ramets required 1,420
Seedling recovery factor (seeds/seedling) = 2.20	Ramets required with over-capacity 1,704
	Projected necessary expansion 0

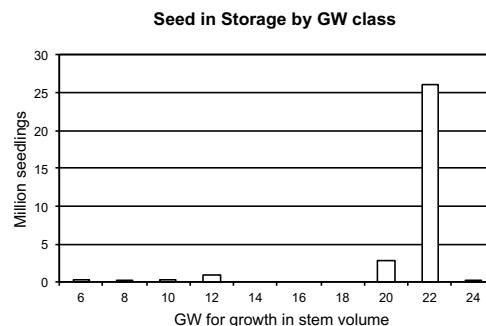
Projected necessary expansion area

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

<b>5-year average seedling requests to SPAR (2013 - 2017)</b>	<b>8.5</b>	<b>million</b>
<b>Estimated years of class-A seed in storage</b>	<b>3.6</b>	<b>years</b>



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 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.