

GENETIC CONSERVATION STATUS**Conservation statistics**

Seed planning unit (SPU) area	2,380,019	ha
Area protected within SPU	262,712	ha
Percentage of SPU area protected	11%	
Estimated genetic reserves with >5000 mature trees based on botanical sample data	>4	
Confirmed genetic reserves with >5000 mature trees based on forest inventory data	23	

Conservation statusCurrent 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
VSOC (Vernon)	239	40	14%	622	622	42.7	7.46
				Total ramets	622	622	Total production 7.46
Vegetative propagation						Stecklings/Emblings	0.0
						Total production	7.5

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

Expected annual average seedling production per ramet = 12,000	Annual planting (million seedlings)	3.9
Seed weight (seeds/gram) = 385	Planned over-production factor	1.2
Seedling recovery factor (seedlings/seed) = 0.45	Ramets required	329
Seedling recovery factor (seeds/seedling) = 2.20	Ramets required with over-capacity	395
	Projected necessary expansion	0

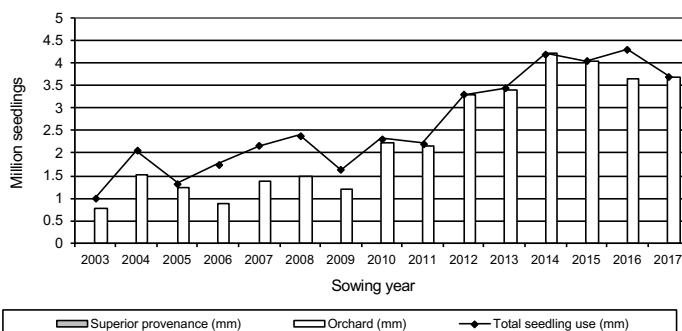
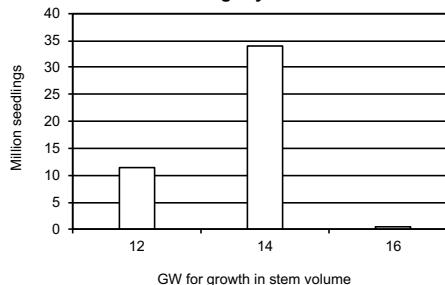
SEEDLING USE AND SEED IN STORAGE

5-year average seedling requests to SPAR (2013 - 2017)

3.9 million

Estimated years of class-A seed in storage

11.7 years

Seedling Use Trend - 2003 to 2017**Seed in Storage by GW class**

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.