

Conservation -- Seed Orchards -- Seedling Use

GENETIC CONSERVATION STATUS

Conservation statistics

Seed planning unit (SPU) area Area protected within SPU Percentage of SPU area protected Estimated genetic reserves with >5000 mature trees based on botanical sample data Confirmed genetic reserves with >5000 mature trees based on forest inventory data	0 0 ha ha
Data not yet available for this seed planning unit	

Conservation status

Current in-situ protection status:
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

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
FLNRO Saanich	409	19	28%	103	104	0.8	0.36
YPP	410	19	TBD	99	99	0.7	0.35
Total ramets				202	203	Total production	0.71
Vegetative propagation						Stecklings/Emblings	0.0
						Total production	0.7

Seed and Nursery Factors

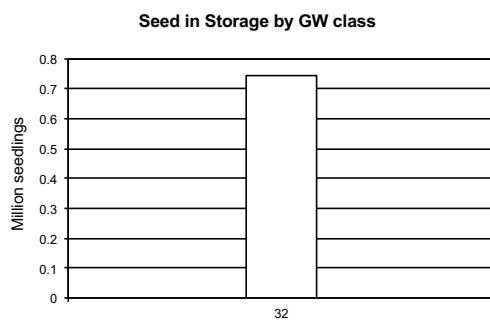
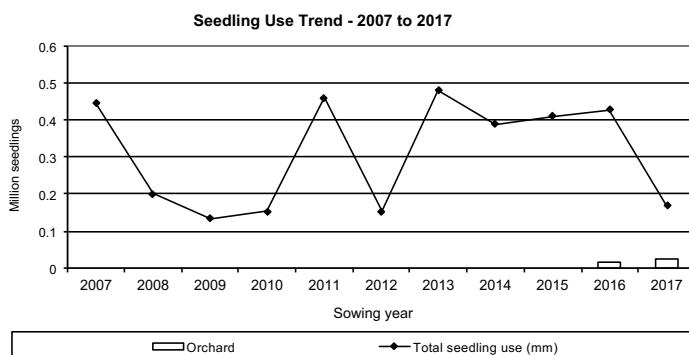
Estimate of Required Orchard Capacity

Expected annual average seedling production per ramet * = 3,500	Annual planting (million seedlings)	0.4
Seed weight (seeds/gram) = 1,600	Planned over-production factor	1.3
Seedling recovery factor (seedlings/seed) = 0.30	Ramets required	107
Seedling recovery factor (seeds/seedling) = 3.33	Ramets required with over-capacity *	134
	Projected necessary expansion	0

* Estimate. No seed production / ramet statistics are available.

SEEDLING USE AND SEED IN STORAGE

5-year average seedling requests to SPAR (2012 - 2016) 0.4
Estimated years of class-A seed in storage 2.0 million years



Seedling use data include 1/2 of adjacent overlap zones, where applicable
Sowing year: Aug 1 to July 31 (i.e. 2018 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.