

GENETIC CONSERVATION STATUS

Conservation statistics

	Seed planning unit (SPU) area	2,262,320	ha
	Area protected within SPU	357,859	ha
	Percentage of SPU area protected	16%	
Estimated genetic reserves with >5000 mature trees based on botanical sample data		>1	
Confirmed genetic reserves with >5000 mature trees based on forest inventory data		16	

Conservation status

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

Probability of maintaining > 3 protected areas with adequate population size given natural disturbance regimes: **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
FLNRO (Skimikin)	249	87	25%	1,238	2,450	82.5	14.70
FLNRO (Kalamalka)	620	28	33%	534	550	18.5	3.30
VSOC (Vernon)	243	30	30%	577	1,177	39.6	7.06
Skimikin orchards 207, 208, and 229 merged to orchard 249							
Total ramets				2,349	4,177	Total production	25.06
Vegetative propagation						Stecklings/Emblings	0.0
						Total production	25.1

Seed and Nursery Factors

Estimate of Required Orchard Capacity

Expected annual average seedling production per ramet =	6,000	Annual planting (million seedlings)	12.4
Seed weight (seeds/gram) =	392	Planned over-production factor	1.2
Seedling recovery factor (seedlings/seed) =	0.45	Ramets required	2,075
Seedling recovery factor (seeds/seedling) =	2.20	Ramets required with over-capacity	2,490
		Projected necessary expansion	0

SEEDLING USE AND SEED IN STORAGE

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

12.4 mill

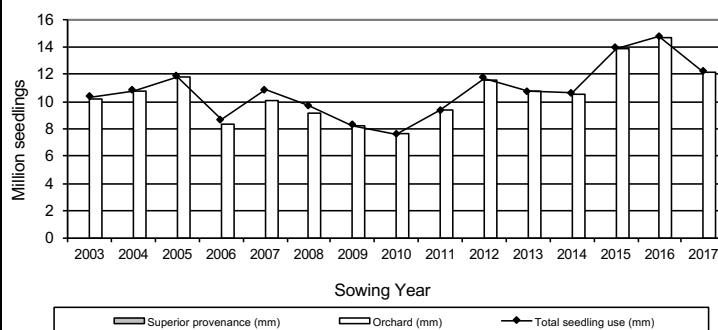
million

Estimated years of class-A seed in storage

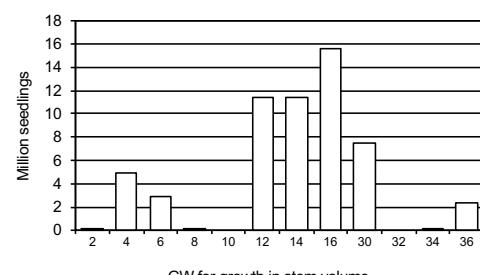
4.5

years

Seedling Use Trend - 2003 to 2017



Seed in Storage by GW class



Notes:

- 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 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.