



**Sitka Spruce Maritime 1 - 500m**  
**Conservation -- Seed Orchards -- Seedling Use**
**SPU #6****GENETIC CONSERVATION STATUS****Conservation statistics**

Seed planning unit (SPU) area	8,424,849	ha
Area protected within SPU	804,589	ha
Percentage of SPU area protected	10%	
Estimated genetic reserves with >5000 mature trees based on botanical sample data	>9	
Confirmed genetic reserves with >5000 mature trees based on forest inventory data	63	

**Conservation status**

Current 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**

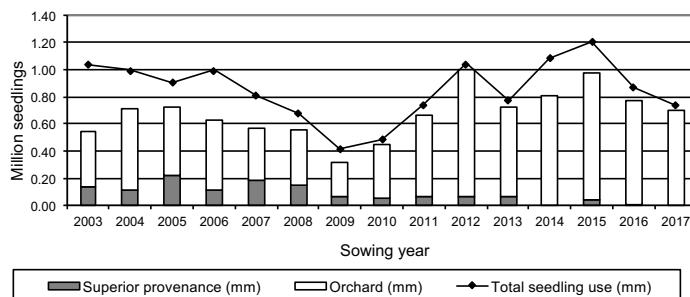
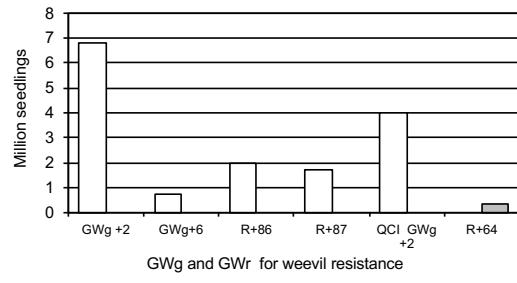
Orchard location	Orchard number	Number of parents	Mean BVR	# of ramets currently established	# of ramets planned for final orchard size	Target Seed production kg/y at maturity	Total Seedling Prod. million seedlings	
WFP (SFC)	172	85	85%	345	280	8.2	<b>1.68</b>	
Yellow Pt. Prop.	195	47	87%	288	360	10.5	<b>2.16</b>	
			BVg					
WFP (SFC)	192	22	6%	102	100	2.9	<b>0.60</b>	North coast/Haida Qwaii
Yellow Pt. Prop.	144	120	2%	250	250	7.3	<b>1.50</b>	North coast/Haida Qwaii
Total ramets				<b>985</b>	<b>990</b>	Total production	<b>5.94</b>	
Vegetative propagation						Stocklings/Emblings		
						Total production	<b>5.9</b>	

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

Expected annual average seedling production per ramet = 6,000	Estimated ann. planting (million seedl.)	0.9
Seed weight (seeds/gram) = 391	Planned over-production factor	1.3
Seedling recovery factor (seedlings/seed) = 0.53	Ramets required	156
Seedling recovery factor (seeds/seedling) = 1.90	Ramets required with over-capacity	203
	Projected necessary expansion	0

**SEEDLING USE AND SEED IN STORAGE**

Average 5-year seedling use from SPAR (2013 - 2017) **0.9** million years  
 Estimated years of class-A seed in storage **16.2** years

**Seedling Use Trend - 1998 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.