

## Average Germination (GC), Seeds per Gram (SPG) and Yields by Species

Species		GC %	SPG	Yield (kg/hL)	Seeds Supplied Per Seedling	Estimated Potential Trees (K) per kg seed	Estimated Potential Trees (K) per hL cones
Lodgepole Pine - Int. - orchard	Pli	95	250	0.260	2.01	124.2	32.3
Lodgepole Pine - Interior		91	336	0.277	2.36	142.3	39.4
Spruce species - orchard	Sx	90	396	1.002	2.78	142.4	142.6
Spruce species		92	460	0.656	2.56	179.5	117.8
Douglas-fir Interior - orchard	Fdi	95	91	0.827	2.18	41.8	34.5
Douglas-fir Interior		94	96	1.004	2.43	39.7	39.8
Douglas-fir Coastal - orchard	Fdc	95	85	0.324	2.18	39.2	12.7
Douglas-fir Coastal		94	95	0.411	2.43	39.1	16.1
Western Redcedar - orchard	Cw	90	744	0.631	2.78	267.7	169.0
Western Redcedar		90	793	1.187	2.78	285.4	338.8
Western Larch - orchard	Lw	82	234	0.827	3.68	63.5	52.5
Western Larch		87	268	0.559	3.05	87.9	49.1
Western Hemlock - orchard	Hw	96	433	0.868	2.18	198.7	172.4
Western Hemlock		86	523	1.105	3.30	158.5	175.2
Yellow Cedar	Yc	60	207	1.775	5.76	35.9	63.7
Sub-alpine Fir	Bl	61	85	2.043	5.60	15.2	31.1
Sitka Spruce - orchard	Ss	94	396	0.510	2.43	163.0	83.1
Sitka Spruce		93	428	0.483	2.43	176.3	85.0
Amabilis Fir	Ba	55	26	1.990	6.14	4.2	8.4
Yellow Pine - orchard	Py	82	16	1.175	3.68	4.2	4.9
Yellow Pine		92	18	1.778	2.56	7.2	12.8
Western White Pine - orchard	Pw	91	46	0.415	2.56	18.1	7.5
Western White Pine		85	58	0.493	3.30	17.4	8.6
Black Spruce	Sb	94	882	0.233	2.43	362.9	84.6
Red Alder - orchard	Dr	98	1,559	0.999	1.91	816.3	815.7
Red Alder		77	1,840	0.854	4.04	455.4	388.9
Mountain Hemlock	Hm	84	434	0.539	3.43	126.6	68.2
Paper Birch - orchard	Ep	88	1,716	1.637	3.05	562.6	921.2
Paper Birch		58	2,804	0.574	5.88	476.9	273.7
Grand Fir	Bg	81	44	1.757	3.68	12.0	21.1
Lodgepole Pine - Coastal	Plc	92	351	0.562	2.56	136.9	76.9
Trembling Aspen	At	86	8,439	0.285	3.30	2,557.1	727.8
Sitka Alder	Alnucri	60	2,220	0.675	5.76	385.5	260.3
Tamarack	Lt	92	646	1.003	2.56	252.3	253.1

Germination Capacity (GC) and Seed Yield (kg/hl) from TSC 5 Year Averages Table

Seeds per Gram (SPG) from information available 1987-2024

Seeds Supplied Per Seedling from Ministry of Forests & Range Sowing Guidelines (2007)

Potential trees per kg and hl cones calculated for a 112 cavity block

More detailed information can be found on our webpage at:

<https://www2.gov.bc.ca/gov/content/industry/forestry/managing-our-forest-resources/tree-seed/tree-seed-centre/species-averages-tables>

Collection quality may vary from year to year; please refer to the 5 year averages table to view degree of variation between crop years for each species.

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