

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	0.270	2.01	124.4	33.6
Lodgepole Pine - Interior		94	337	0.291	2.24	150.3	43.7
Spruce species - orchard	Sx	90	395	0.972	2.78	142.0	138.1
Spruce species		92	460	0.656	2.56	179.5	117.8
Douglas-fir Interior - orchard	Fdi	95	91	0.686	2.18	41.7	28.6
Douglas-fir Interior		95	97	1.025	2.18	44.3	45.4
Douglas-fir Coastal - orchard	Fdc	95	86	0.454	2.18	39.2	17.8
Douglas-fir Coastal		94	95	0.411	2.43	39.1	16.1
Western Redcedar - orchard	Cw	89	742	0.516	2.78	266.9	137.7
Western Redcedar		90	790	1.189	2.78	284.1	337.9
Western Larch - orchard	Lw	86	233	0.754	3.30	70.7	53.2
Western Larch		87	268	0.559	3.05	87.9	49.1
Western Hemlock - orchard	Hw	96	431	0.822	2.18	197.6	162.5
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	63	85	1.954	5.34	15.9	31.0
Sitka Spruce - orchard	Ss	96	394	0.583	2.18	180.8	105.4
Sitka Spruce		93	428	0.483	2.43	176.3	85.0
Amabilis Fir	Ba	56	26	2.119	6.14	4.2	8.9
Yellow Pine - orchard	Py	82	16	1.175	3.68	4.2	4.9
Yellow Pine		92	18	1.779	2.56	7.2	12.8
Western White Pine - orchard	Pw	92	46	0.413	2.56	18.1	7.5
Western White Pine		85	58	0.493	3.30	17.4	8.6
Black Spruce	Sb	85	886	0.257	3.30	268.4	69.0
Red Alder - orchard	Dr	98	1,559	0.999	1.91	816.3	815.7
Red Alder		81	1,793	0.906	3.68	487.1	441.3
Mountain Hemlock	Hm	84	434	0.539	3.43	126.6	68.2
Paper Birch - orchard	Ep	88	1,752	1.637	3.05	574.4	940.5
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	81	7,988	0.302	3.68	2,170.7	656.4
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 1987-2022

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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