

Changes to Seed Transfer Limits - April 2005

Tree Improvement Branch
Ministry of Forests
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The following tables outline the differences between the seed transfer limits, and associated collection criteria, specified in the Code's *Seed and Vegetative Material Guidebook*, June 1995, and its Updates #1 to 7 (consolidated to September 12, 2003) and those specified in FRPA's *Chief Forester's Standards for Seed Use* (which came into effect April 1, 2005).

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Questions regarding these changes may be submitted using the Q & A website located at: <http://www.for.gov.bc.ca/code/cfstandards/> or directed to:

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Table 1. Changes to transfer limits – all origins

Table does not include natural stand species whose transfer limits did not change.

Lot Origin	Species Code	Common Name	Seed and Vegetative Material Guidebook	Chief Forester's Standards for Seed Use
Natural Stands (BC)	Ba	Amabilis fir	Transfer between Vancouver Island and mainland <u>not</u> permitted Guidebook p. 23	Transfer permitted. Appendix 3 of Standards
	Fdi	Interior Douglas-fir	Transfer between SA and TOD and between CT and QL <u>not</u> permitted. Guidebook p. 25	Transfer permitted if used in same BGC zone of origin Appendix 3 of Standards
	Hw	Western Hemlock	Transfer between QCI and Vancouver Island to mainland <u>not</u> permitted. Guidebook p. 23	Transfer permitted, but QCI collections cannot be used N of 54 30 latitude on mainland. Appendix 3 of Standards
	Pw	Western white pine	Unlimited elevation transfer in coastal SPZs	+/- 700 m in <u>all</u> SPZs Appendix 3 of Standards
	Yc	Yellow-cedar	No limit up in elevation in M SPZ Update #7	If collection elevation ≤ 1100 m, then +400 m/no limit down. If collection elevation >1100 m, then +/- 300 m. Appendix 3 of Standards
	Other	Other	Transfer between mainland and Vancouver Island not permitted.	Restriction removed.
Superior Provenances	All	Refer to Tables 2-5 below		Refer to Tables 2-5 below
BC Parent trees (Seed orchard seed)	All	Transfer limits determined at time of registration. Additional restrictions for some orchard lots listed by orchard number Update #2 and Update #4		Transfer limits based on parent trees contributing to lot, and status of trees or lot (e.g. tested, untested or custom) s. 8.3, 8.5 and 8.6. of Standards If lot registered under Code, transfer in accordance with limits applied to lot at time of registration – or in accordance with applicable limits determined under CF Standards s. 8.10
Non-BC natural stands or parent trees (exotic provenances)	Natural stands		Refer to Tables 6-7 below	Refer to Tables 6-7 below
	Ax	Hybrid poplar	Used in accordance with Ministry recommendations Update #2	Ax parent trees (i.e. clones) treated as tested parent trees. Transfer limits to be based on tested area of use for each tested parent tree.
	Parent trees (seed orchards)		Transfer limits determined at time of registration. Also, Idaho Pw use S of 52° latitude and 1450 m in elevation. Update #2	In accordance with limits specified in Table 6.2 of Standards
	Other	All	May be used for operational trials if approved in silviculture prescription	If species and source not listed in Tables 6.1 or 6.2, person may apply for alternative to the standards under section 43 of the <i>Forest Planning and Practices Regulation</i> . Confirmation of transfer limits for previously registered lots from non-identified sources pending.

Table 2. Changes to lodgepole pine superior provenance collection criteria

Both Guidebook and Standards state that collections must occur within an 8 km radius of latitude and longitude.

Changes highlighted in yellow

Guidebook – Update #6				Chief Forester's Standards – Appendix 5			
Provenance	Elevation (+/- 50 m)	Latitude of centre point of area (degrees / minutes)	Longitude of centre point of area (degrees / minutes)	Provenance	Located within the following elevation range (metres)	Latitude of centre point of area (degrees / minutes)	Longitude of centre point of area (degrees / minutes)
Bowron River	671m	53 54	122 00	Bowron River	620 – 720	53° 54'	122° 00'
Canoe Creek	890m	50 42	119 11	Canoe Creek	840 – 940	50° 42'	119° 11'
				Cartwright Lake	1120 – 1220	50° 49'	116° 26'
Champion Lake	998m	49 11	117 35	Champion Lakes	950 – 1050	49° 11'	117° 35'
China Valley	1130m	50 44	119 30	China Valley	1080 – 1180	50° 44'	119° 30'
Inonoaklin	579m	49 54	118 12	Inonoaklin Creek	530 – 630	49° 54'	118° 12'
Jackfish Creek	457m	58 32	122 42	Jackfish Creek	410 – 510	58° 32'	122° 42'
Joe Rich Creek	1067m	49 48	119 05	Joe Rich Creek	1020 – 1120	49° 48'	119° 05'
Larch Hills	777m	50 42	119 11	Larch Hills	730 – 830	50° 42'	119° 11'
				Marl Creek	900 – 1000	51° 31'	117° 11'
Nechako River	732m	54 01	124 31	Nechako River	680 – 780	54° 01'	124° 31'
Oie Lake	991m	52 00	121 12	Oie Lake	940 – 1040	52° 00'	121° 12'
Olean Creek	1158m	50 27	118 54	Lossie Creek (renamed)	1110 – 1210	50° 27'	118° 54'
				Settlers Road	990 – 1090	50° 31'	115° 44'
Telkwa Low.	518m	54 39	127 03	Telkwa Low	470 – 570	54° 39'	127° 03'
Udy Creek	1100m	53 01	123 14	Udy Creek	1050 – 1150	53° 01'	123° 14'
Wentworth Creek	1059m	50 58	120 20	Wentworth Creek	1010 – 1110	50° 58'	120° 20'
Whittier Creek	762m	53 07	122 42	Whittier Creek	710 – 810	53° 07'	122° 42'
Rocky Mountain Trench	Source is continuous from 50 30 to 51 30 and between 900 - 1200m along the Columbia River valley.			Split into 3 sources: Cartwright Lake, Marl Creek and Settlers Road			

Table 3. Changes to lodgepole pine superior provenance transfer limits

Changes highlighted in yellow

Guidebook Update #7				Chief Forester's Standards – Appendix 5		
Provenance	SPZs	Up	Down	Provenance	SPZ	Up/Down
Bowron River	MGR, CP, NCH	300m	200m	Bowron River	CHL, CP, CT, MGR, MRB, NCH, QL	+300 / -200
Canoe Creek	SA, TOA, TOD, WK	300m	200m	Canoe Creek	SA, TOA, TOD, WK	+300 / -200
		-	-	Cartwright Lake	BSH, EK, MRB, SA, TOA, TOD, WK	+300 / -200
Champion Lk.	BSH, EK, TOD, WK	300m	200m	Champion Lakes	BSH, EK, TOA, TOD, WK	+300 / -200
China Valley	TOD, SA, TOA	300m	200m	China Valley	SA, TOD, TOA	+300 / -200
Inonoaklin	BSH, EK, SA, WK, TOD	300m	200m	Inonoaklin Creek	BSH, EK, SA, TOD WK	+300 / -200
Jackfish Creek	DK, FN	200m	200m	Jackfish Creek	DK, FN	+200 / -200
Joe Rich Creek	SA, TOA, TOD*	300m	200m	Joe Rich Creek	SA, TOA, TOD	+300 / -200
Larch Hills	BSH, EK, SA, TOD, WK	400m	200m	Larch Hills	BSH, EK, SA TOD, WK	+400 / -200
Nechako River	NCH, BLK, CP, MGR	300m	200m	Nechako River	BLK CP, MGR, MRB, NCH, QL	+300 / -200
				Marl Creek	BSH, EK, MRB, SA, TOA, TOD, WK	+300 / -200
Oie Lake	CT, CHL, NCH	300m	200m	Oie Lake	BLK CHL, CT, MGR, MRB, NCH, QL	+300 / -200
Olean Creek	SA, TOA, TOD, WK	300m	200m	Lossie Creek (renamed)	SA, TOA TOD, WK	+300 / -200
Rocky Mt. Trench	BSH, EK, MRB, SA, WK, TOD	300m	200m	Split into 3 sources: Cartwright Lake, Marl Creek and Settlers Rd.		
				Settlers Road	BSH, EK, MRB, SA, TOA, TOD, WK	+300 / -200
Telkwa Low.	BLK	300m	200m	Telkwa Low	BLK	+300 / -200
Udy Creek	CHL, CT, MRB, NCH, QL	300m	200m	Udy Creek	BLK CHL, CT, MRB, NCH, QL	+300 / -200
Wentworth Creek	TOA, TOD, BB	300m	200m	Wentworth Creek	BB, TOA, TOD	+300 / -200
Whittier Creek	NCH, CHL, CT, MGR	300m	200m	Whittier Creek	CHL, CT, MGR, MRB, NCH, QL	+300 / -200

Table 4. Changes to interior spruce, Sitka spruce and yellow-cedar superior provenance collection criteria

Changes highlighted in yellow

Code	Common Name	Provenance	Guidebook p. 9-11				Chief Forester's Standards Table 5.2			
			Elevation (metres)	Latitude of centre point of area (degrees / minutes)	Longitude of centre point of area (degrees / minutes)	Additional criteria	Located within the following elevation range (metres)	Latitude of centre point of area (degrees/ minutes)	Longitude of centre point of area (degrees / minutes)	Additional criteria
Ss	Sitka spruce	Big Qualicum	+/- 100m from 0 m p. 11	49° 14'	122° 36'	Collected within 15 km radius of lat/long	1 – 100	n/a	n/a	Within natural stands located in coastal plain drainages between 49° 42' (Comox) and 49° 12' (Nanoose Bay) on Vancouver Island
		Haney	+/- 100 m from 195 m p. 11	49° 23'	124° 37'	Collected within 15 km radius of lat/long	100 – 300	n/a	n/a	Within natural stands located within the UBC Malcolm Knapp Forest and between Kanaka Creek and Alouette River north of Haney
Sx	Interior Spruce (White, Englemann and their hybrids)	Birch Island	+/- 100 m from 425 m p. 10	51° 37'	119° 30'	Collected on floodplain along N Thompson R. from Kamloops to Blue River	400 – 500	n/a	n/a	Within natural stands located along the North Thompson River between 51°35' (Vavenby) and 51°39' (Clearwater)
		Horsefly	+/- 100 m from 900 Update #4	52° 25'	121° 25'	Collected within 15 km radius of lat/long	800 – 1000	52° 25'	121° 25'	Within natural stands located within a 15 km radius of the latitude and longitude of centre point
Yc	Yellow-cedar	Waukwass	+/- 100 m from 750 m Update #7	50° 29'	127° 18''	Collected within 8 km radius of lat/long	700 – 800	50° 29'	127° 18'	Within natural stands located within a 2 km radius of the latitude and longitude centre point

Table 5. Changes to interior spruce, Sitka spruce and yellow-cedar superior provenance transfer limits

Changes highlighted in **yellow**

Code	Common name	Provenance	Guidebook p. 25-27			Chief Foresters Standards Table 5.2		
			May be used within the following natural stand seed planning zones	May be used within the following elevation range (metres)	Latitude transfer (degrees)	May be used within the following natural stand seed planning zones	May be used within the following elevation range (metres)	May be used within the following latitude range (degrees)
Ss	Sitka spruce	Big Qualicum	M, GL	Up to 500 m and 200 m down Update #7	4 N / 1 S	M, GL	1 – 500	48° – 55°
		Haney	M, GL	Up to 500 m and 200 m down Update #7	4 N / 1 S	M, GL	1 – 500	48° – 55°
Sx	Interior Spruce (White, Englemann and their hybrids)	Birch Island	BSH, MGR, MIC, MRB, SA, QL	Up to 1000 m Update #4	N/A	BSH, MGR, MIC, MRB, SA, QL	1 – 1000	No limit
		Horsefly	BSH, CP, MGR, MRB, SA, QL	+400/ unlimited down	N/A	BSH, CP, MGR, MRB, SA, QL	400 – 1000	No limit
Yc	Yellow-cedar	Waukwass	M	No limit Update #7	4 N / 3 S	M	0 – 1100	48° – 52°

Table 6. Changes to non-BC natural stand seed source collection criteria

Changes highlighted in yellow

Code	Common name	Guidebook p. 28			Chief Foresters Standards Appendix 6		
		Elevation limits (metres)	Maximum range between lowest and highest elevation (metres)	Additional criteria	Elevation limits (metres)	Maximum range between lowest and highest elevation (metres)	Additional criteria
Bn	Noble fir	≥ 1000	-	Within natural stands located north of 45° latitude.	≥ 700	300	Within natural stands located north of 45° in Washington or Oregon, USA
Fdc	Coastal Douglas-fir Update #6		-	Originates between 46° and 49° latitude.	No limit	350	Within natural stands located north of 46° in Washington or Oregon, USA
Ss	Sitka spruce	< 200 m	-	From Wash and Oregon within 30 km from coast.	≤ 200	250	Within natural stands located within 30 km of Pacific Ocean in Washington or Oregon, USA
Pw	Western white pine	From Idaho			Refer to Appendix 6 Table 6.2 Non-BC Parent Tree (Seed Orchards) in Standards		

Table 7. Changes to non-BC natural stand seed source transfer limits

Changes highlighted in yellow

Code	Common name	Guidebook p. 28			Chief Forester's Standards Appendix 6		
		May be used within the following natural stand seed planning zones	May be used within the following range (up/down) from mean elevation of origin (metres)	Latitude transfer (degrees)	May be used within the following natural stand seed planning zones	May be used within the following range (up/down) from mean elevation of origin (metres)	May be used within the following latitude range (degrees)
Bn	Noble fir	-	+300 / -400 Update #7	Maritime sites on Vancouver Island and S of 50° latitude on Mainland p. 28	M, SM	+300 / -400	48° – 52°
Fdc	Coastal Douglas-fir	Coast of BC	+350 / -350 (derived from natural stand tables)	3 N (derived from natural stand tables)	GL, M	+350 / -350	48° – 52°
Ss	Sitka spruce	-	+300 m	4 N	M Queen Charlotte Islands only	+300 / no limit down	No limit