

Coastal Seed Transfer Guidelines

July 1990

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Introduction

These guidelines have been prepared to assist silviculture staff in planning for natural stand cone collections and in selecting appropriate orchard or natural stand seedlots for reforestation purposes.

The guidelines given here for natural stand seed are based on information drawn from provenance and progeny testing in B.C. and elsewhere, the biogeoclimatic (BGC) classification system and practical knowledge. They have been approved by the Coastal Seed Transfer Task Group which consists of Ministry of Forests, industry and university representatives. Furthermore, the Technical Advisory Committee of the Coastal Tree Improvement Council has endorsed the manner in which the recommendations for natural stand seed have been applied to orchard seed.

Tree Seed Register and Inventory System (TSR) reports list all seedlots registered with the Ministry and are available, on request, from Forest Region offices. These reports present Seed Planning Zone, latitude and elevation information for each seedlot on which these guidelines are based.

Users of this guide are advised that these recommendations apply only after the appropriate species has been selected. The Silviculture Regulation (B.C. Reg 147/88) states that orchard seed shall be used when available.

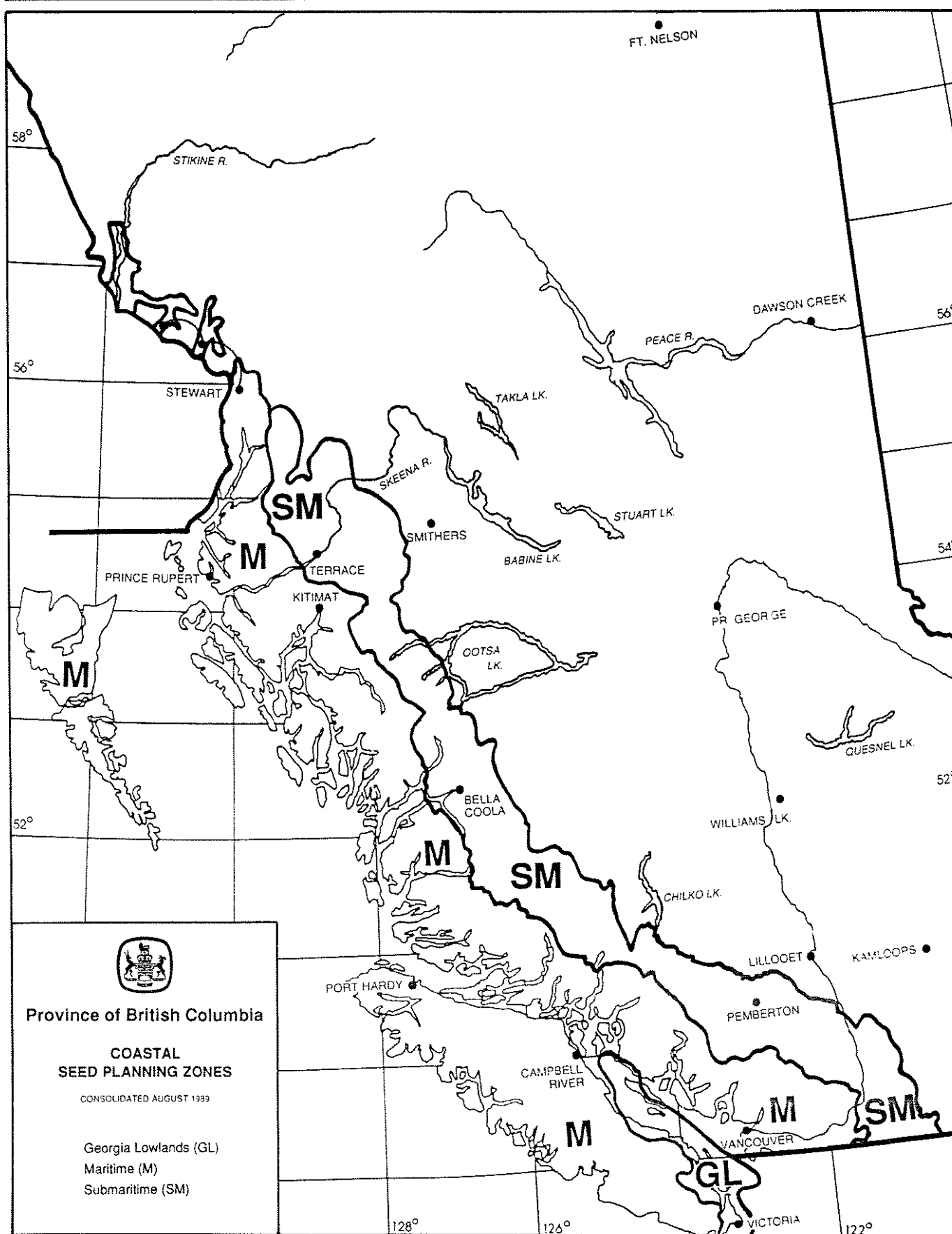
Proposed seed transfers beyond these guidelines should be discussed with the District Manager.

Coastal seed planning zones (SPZ'S)

BGC units within each coastal seed planning zone

Zone Subzone Variant	Name	Old Code
SPZ: Georgia Lowlands (GL)		
CDF CDFmm	Coastal Douglas-fir Moist Maritime CDF	CDFa
SPZ: Maritime (M)		
CWH CWHxm CWHxm1 CWHxm2 CWHdm CWHmm CWHmm1 CWHmm2 CWHwh CWHwh1 CWHwh2 CWHwm CWHvh CWHvh1 CWHvh2 CWHvm CWHvm1 CWHvm2 MH MHmm MHmm1 MHwh MHwh1 MHwh2	Coastal Western Hemlock Very Dry Maritime CWH Eastern CWHxm Western CWHxm Dry Maritime CWH Moist Maritime CWH Submontane CWHmm Montane CWHmm Wet Hypermaritime Submontane CWHwh Montane CWHwh Wet Maritime Very Wet Hypermaritime Outer CWHvh Inner CWHvh Very Wet Maritime Submontane CWHvm Montane CWHvm Mountain Hemlock Moist Maritime Windward MHmm Wet Hypermaritime MH Windward MHwh Leeward MHwh	CDFb CWHa1 CWHa2 CWHb3 CWHb4 CWHel,g1 CWHe2,g2 CWHj CWHd,CCPH CWHd,CCPH CWHb1,i1 CWHb2,i2 MHa,d MHc1 MHc2,f
SPZ: Submaritime (SM)		
CWH CWHds CWHds1 CWHds2 CWHms CWHms1 CWHms2 CWHws CWHws1 CWHws2 MH MHmm MHmm2 IDF IDFww ESSF ESSFmk ESSFmw	Coastal Western Hemlock Dry Submaritime Southern CWHds Central CWHds Moist Submaritime CWH Southern CWHms Central CWHms Wet Submaritime Submontane CWHws Montane CWHws Mountain Hemlock Moist Maritime Leeward MHmm Interior Douglas-fir Wet Warm IDF Engelmann Spruce - Subalpine Fir Moist Cool ESSF Moist Warm ESSF	CWHc1 CWHc2,h1,h2 CWHb5 CWHb6,h3 CWHf1 CWHf2,i3,b7 MHb3,bf IDFe1,e2 ESSF1 ESSFf

Coastal seed planning zones (SPZ'S)



Note: Approximate location only; consult BGC Unit maps for accurate delineation of zone boundaries.

Transfer guidelines for natural stand seed

Seed sources native to SPZ's

Recommended maximum north(N)-south(S)
and elevation transfer from source *within* each seed planning zone

Species	Georgia Lowlands (GL)	Maritime (M)	SubMaritime (SM)
Amabilis fir	—	2°N 2°S -100 +300 m	2°N 2°S -100 +200 m
Douglas-fir	no limit	3°N 2°S -300 +300 m	2°N 1°S -100 +200 m
Engelmann spruce	—	see p 7	2°N 2°S -200 +200 m
Grand fir	no limit; upward transfer recommended	2°N 2°S -100 +300 m upward transfer recommended	2°N 2°S -100 +200 m
Sitka spruce	—	4°N 1°S -100 +300 m northward transfer recommended	2°N 1°S -100 +200 m
Spruce hybrid	—	0.5°N 0.5°S -100 +200 m	0.5°N 0.5°S -100 +200 m
Western hemlock	—	3°N 3°S -300 +300 m	2°N 2°S -200 +200 m
Western redcedar	no limit	3°N 3°S -400 +400 m	2°N 2°S -300 +300 m
Western white pine	no limit	no limit	no limit
Yellow cedar	—	3°N 3°S -400 +400 m	2°N 2°S -300 +300 m
Other minor species	no limit	3°N 3°S -100 +300 m	1.5°N 1.5°S -100 +200 m

Notes:

- To determine the recommended area of use for a seedlot, within the SPZ given in the TSR, apply these limits to the latitude and elevation given.
- Movement *across* SPZ boundaries is not recommended except for:
 - Douglas-fir - M to GL: seed source below 51°
 - Grand fir - GL to M: 2°N no limit °S; 2°E no limit °W
 - Western white pine - no limit throughout
 - M to GL: 2°N 2°S; no limit °E 2°W
 Elevation limits given above apply.
- Within a SPZ, there is generally no *further* limit to east-west movement; but transfers from Queen Charlotte Islands (QCI) and/or Vancouver Island (VI) to mainland (ML) and vice versa should be avoided for some species as follows, *unless* made within the same BGC variant:
 - Sitka spruce - QCI/VI ↔ ML
 - Amabilis fir - VI ↔ ML
 - Western hemlock - QCI ↔ ML
 - Other minor species - QCI/VI ↔ ML

Transfer guidelines for natural stand seed

Seed sources exotic to SPZ's

Noble fir to lower coast:

Seed sources from the USA should be restricted to natural stands north of 45° latitude and above 1000 m, and planting should be restricted to sites on Vancouver Island and south of 50° latitude on the mainland. Warm south and west aspects are preferable.

Engelmann spruce to Maritime SPZ:

Seed sources should be restricted to latitude 49° to 52°, along the western limit of the species' natural range; plant where recommended in species selection guide.

Interior lodgepole pine to Submaritime SPZ:

Seed sources from the interior of B.C. should be restricted to the interior wet belt sources (south of 52° and below 1200 m), and planting is recommended for sites south of 51°.

Note:

The above transfers, including the introduction of hybrid poplar, should be done on an experimental and operational trial basis. *Detailed records of background information on genetic composition and origin of the introduced seed sources should be maintained.* Their performance should be diligently monitored.

Transfer guidelines for natural stand seed

Superior seed sources of Sitka spruce

Location	Origin			Recommended SPZ of Use
	Elevation (m)	Latitude	Longitude	
Allouette R., Haney	195	49° 14'	122° 36'	M
Big Qualicum R.	0	49° 23'	124° 37'	M
Oregon-Washington	-----see below-----			

Notes:

1. These two B.C. seed sources showed a higher than average tolerance to weevil attack. To qualify as a superior seed source the majority of a seedlot must originate from a natural stand that is within a 10 km radius of the origin given. Their use should follow guidelines on page 6.
2. Collection of the Oregon-Washington sources should be within 30 km of the coast and below 200 m; their northward transfer should not be more than 4° of latitude and 300 m above the source of origin; sources from south of Columbia River should be used at present for operational trials only.
3. Superior seed sources of Douglas-fir have also been identified. However, a large amount of orchard seed is now available for this species. Consult the Provenance Forester, Research Branch, for details (387-3976).

Transfer guidelines for orchard seed

Recommended maximum north(N)-south(S) and elevation transfer from source *within* each seed planning zone

The limits given for natural stand seedlots (p. 6) also apply to orchard seedlots.

Notes:

1. To determine the recommended area of use for an orchard seedlot, within the SPZ(s) given in the TSR, apply these limits to the latitude and elevation given. If two SPZ's are shown, seed may be used in both zones.
2. Transfers *outside* the SPZ(s) given in the TSR are not recommended.
3. Within the SPZ(s) given, there is generally no *further* limit on seed movement. Additional constraints apply for some orchards as follows:

Sitka Spruce

Orchard 118 — If northern limit exceeds 52°, use on mainland above this latitude in CWHvh subzone.

Orchard 142 — On mainland above 52°, use in CWHvh subzone.

Orchard 144 — Use in CWHvm subzone in the Maritime SPZ.

Orchard 157 — On mainland above 52°, use in CWHvh subzone.

Amabilis fir

Orchard 129 — On mainland use in CWHvm1 variant.

Orchard 160 — On mainland use in CWHvm1 variant.

Western Hemlock

Orchard 156 — On mainland use in CWHvh subzone and CWHvm1 variant.



4. The latitude and elevation of orchard seedlots are derived from the geographic origin of the parents, proportionate to their contribution to the seedlot.

Generalized usage areas for orchard seed

This section shows areas covered by coastal *orchards*. The latitude and elevation ranges given are derived from the total parental composition of each orchard (i.e., generalized); values for specific seedlots depend on actual parental composition, and could extend beyond the ranges shown. Consult TSR reports to determine what orchard *seedlots* are available and the usage area covered by each.

Notes:

1. On the maps:

-  - Area covered by at least one orchard with *no* BGC unit constraints on seed usage.
-  - Area covered by orchard(s) with *further* BGC unit constraints on seed usage.

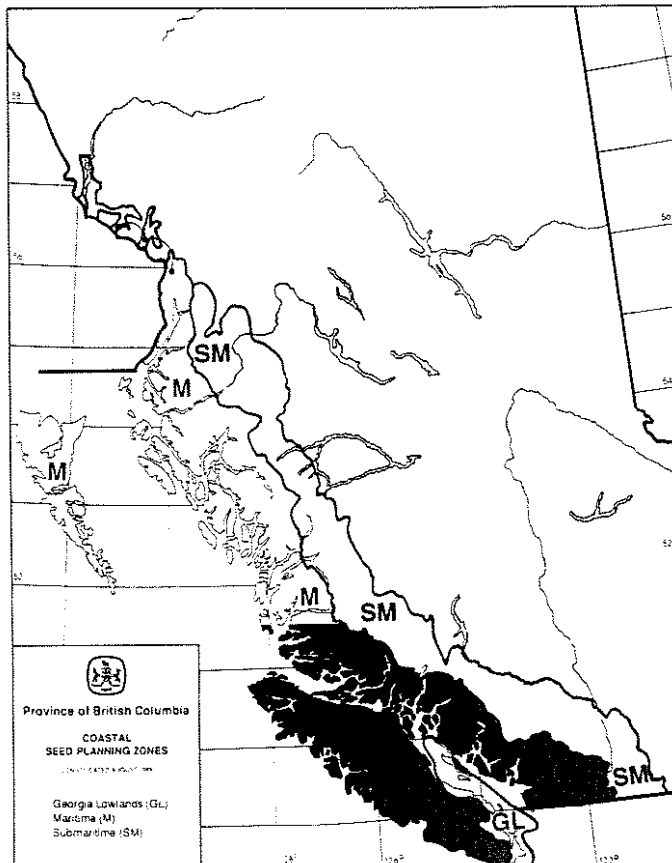
2. **Target Year** is the year in which the seed production target of the orchard was, or is expected to be, reached. Initial seed production may commence about 5 years prior.
3. Orchards that will begin production by 1995 are included.
4. Agency codes are defined on p. 25.

Generalized usage areas for orchard seed

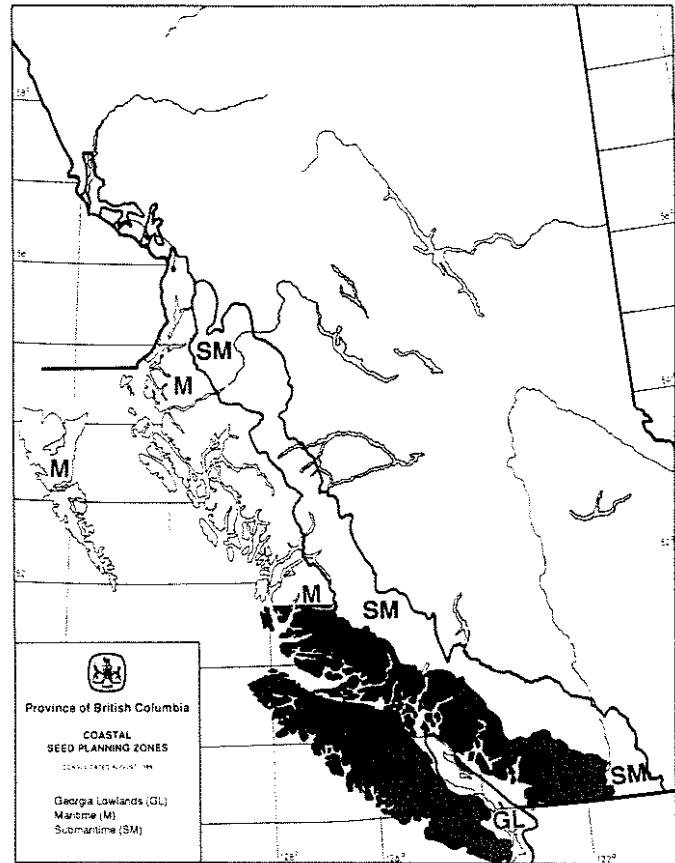
Amabilis fir

Overview: Area covered by all orchards

High elevations



Mid elevations



Detail: Area covered by specific orchards

Amabilis fir			High Elevations				
Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
135 — McBean	MB	M	48 00	51 30	900	1300	2000

Amabilis fir			Mid Elevations				
Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
141 — Polo Field	BCFS	M	48 00	51 45	550	950	1998
129* — Mt. Newton	FCC	M	48 00	51 30	225	625	1999
160* — Nootka	CPFP	M	48 00	51 45	300	700	2000

* Additional constraints apply (see p. 10)

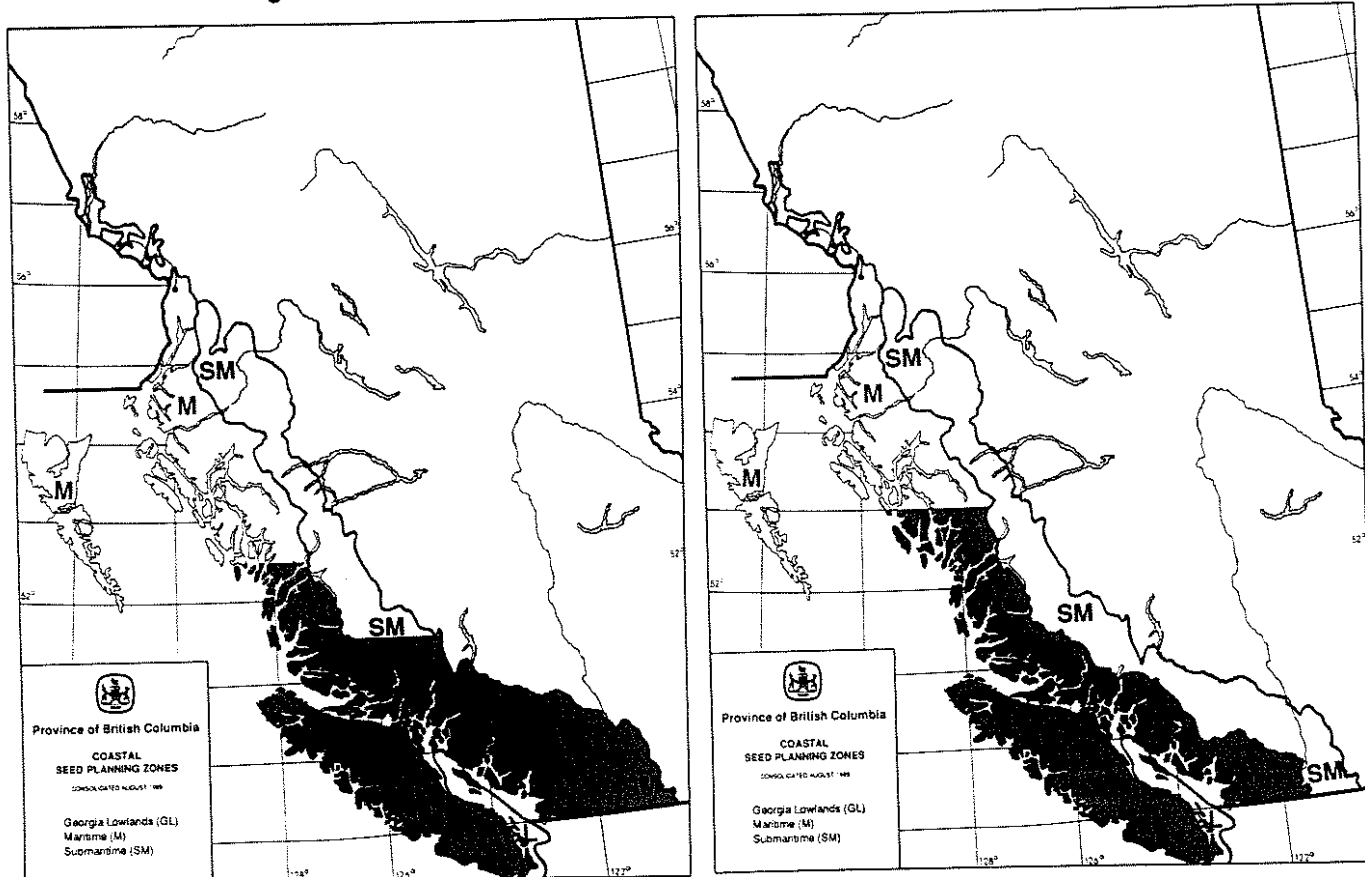
Generalized usage areas for orchard seed

Douglas-fir

Overview: Area covered by all orchards

High elevations

Mid elevations



Detail: Area covered by specific orchards

Douglas-fir High Elevations

Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
110 — Saanichton	CPFP	M GL	48 00	52 15	325	925	1983
121 — Saanichton	CPFP	M GL	48 00	52 15	300	900	1986
120 — Dewdney	BCFS	SM	48 30	51 30	800	1100	1993
116 — Sechelt	CFP	M GL	48 00	52 30	350	950	1994
123 — Ainscough	MB	M GL	48 00	52 15	425	1025	1994

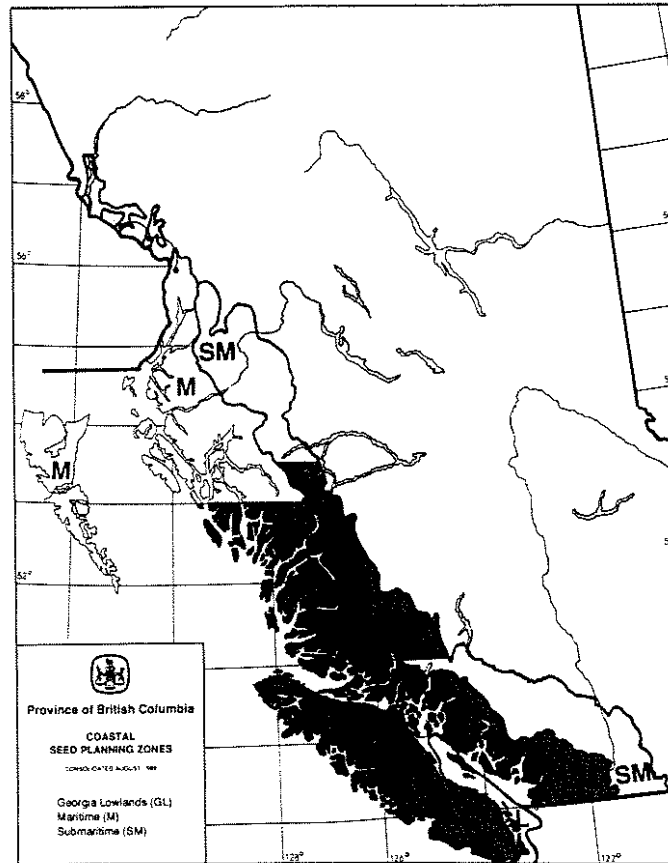
Douglas-fir Mid Elevations

Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
101 — Quinslam	BCFS	M GL	48 00	52 00	225	825	1976
114 — Koksilah	BCFS	M GL	48 00	52 30	250	850	1981
402 — CLRS	BCFS	M GL	48 00	51 30	0	700	1990
122 — Ainscough	MB	M GL	48 00	53 00	175	775	1993
166 — Saanichton	CPFP	M GL	48 00	51 30	0	700	1997
149 — Bowser 1	BCFS	M GL	48 00	51 30	0	700	1998

Douglas-fir (continued)

Overview: Area covered by all orchards

Low elevations



Detail: Area covered by specific orchards

Douglas-fir				Low Elevations				
Orchard	Agency	Seed Planning Zone(s)		Latitude Range		Elevation Range (m)		Target Year
111 — Nootka	CPFP	M	GL	48 00	53 00	0	450	1974
109 — Saanichton	CPFP	M	GL	48 00	52 15	0	575	1983
115* — Snowdon	BCFS	M	GL	48 00	53 00	0	450	1984
402 — CLRS	BCFS	M	GL	48 00	51 30	0	700	1990
124 — Ainscough	MB	M	GL	48 00	53 00	0	475	1994
134 — Mt. Newton	FCC	M	GL	48 00	52 30	0	425	1997
154 — Mt. Newton	FCC	M	GL	48 00	52 00	0	450	1997
166 — Saanichton	CPFP	M	GL	48 00	51 30	0	700	1997
149 — Bowser 1	BCFS	M	GL	48 00	51 30	0	700	1998
146 — Surrey	BCFS	SM		51 00	53 30	0	500	2000

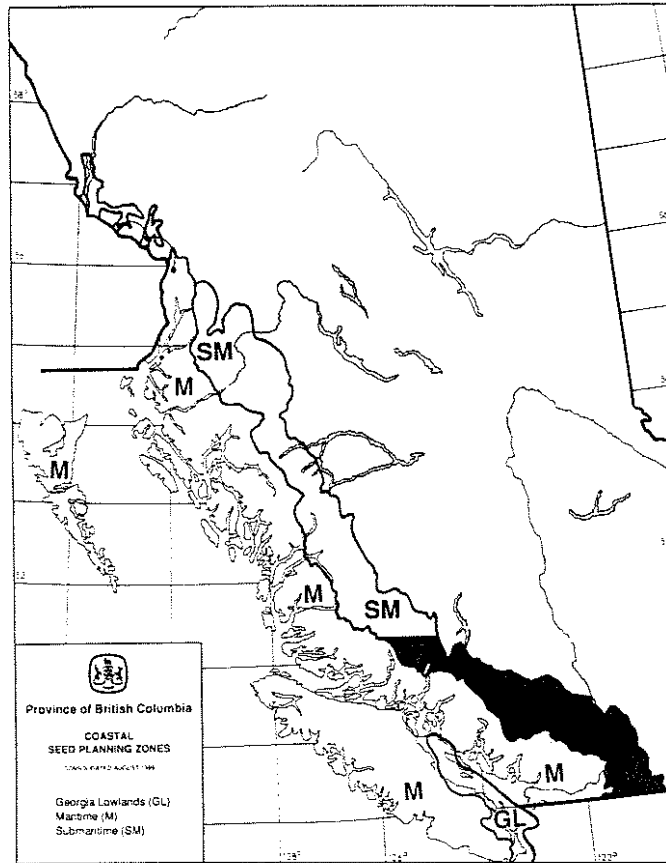
* Orchard 115 has been phased out; several seedlots in storage at time of publication.

Generalized usage areas for orchard seed

Engelmann spruce

Overview: Area covered by all orchards

High elevations



Detail: Area covered by specific orchards

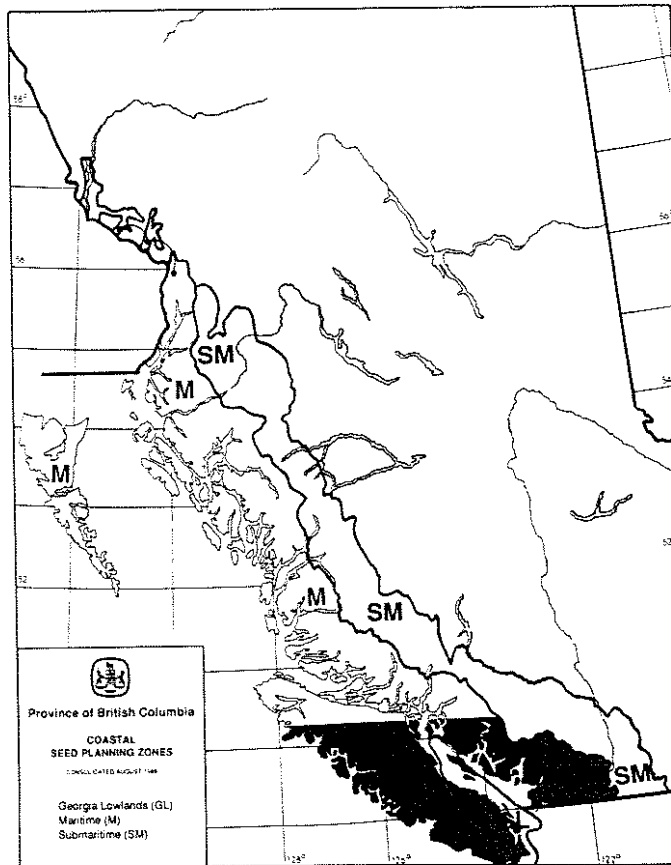
Engelmann spruce		High Elevations				
Orchard	Agency	Seed Planning Zone(s)	Latitude Range	Elevation Range (m)		Target Year
131 — Cobble Hill	BCFS	SM	48 00 51 15	1075 1475		1992

Generalized usage areas for orchard seed

Grand fir

Overview: Area covered by all orchards

Low elevations



Detail: Area covered by specific orchards

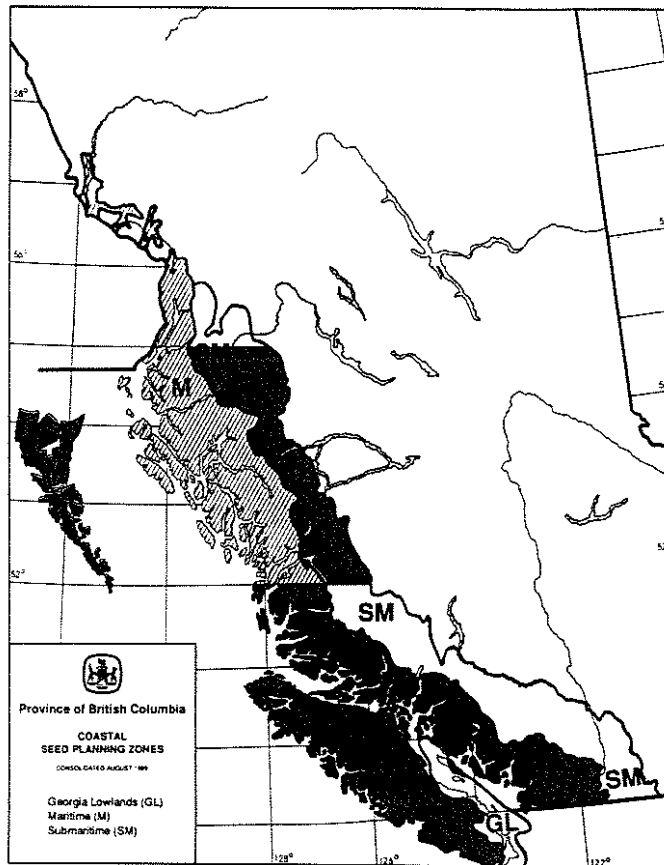
Grand fir		Low Elevations							
Orchard	Agency	Seed Planning Zone(s)		Latitude Range		Elevation Range (m)		Target Year	
167 — Haslam Cr.	YLPT	M	GL	48 15	50 15	0	200	1997	

Generalized usage areas for orchard seed

Sitka spruce

Overview: Area covered by all orchards

Low elevations



Detail: Area covered by specific orchards

Sitka spruce			Low Elevations				
Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
118* — Nootka	CPFP	M	48 00	52 30	0	375	1983
157* — Lost Lake	WFP	M	49 30	54 30	0	350	1995
144* — McBean	MB	SM M	52 00	55 00	50	350	1996
142* — Lost Lake	WFP	M	51 45	56 45	0	400	1996

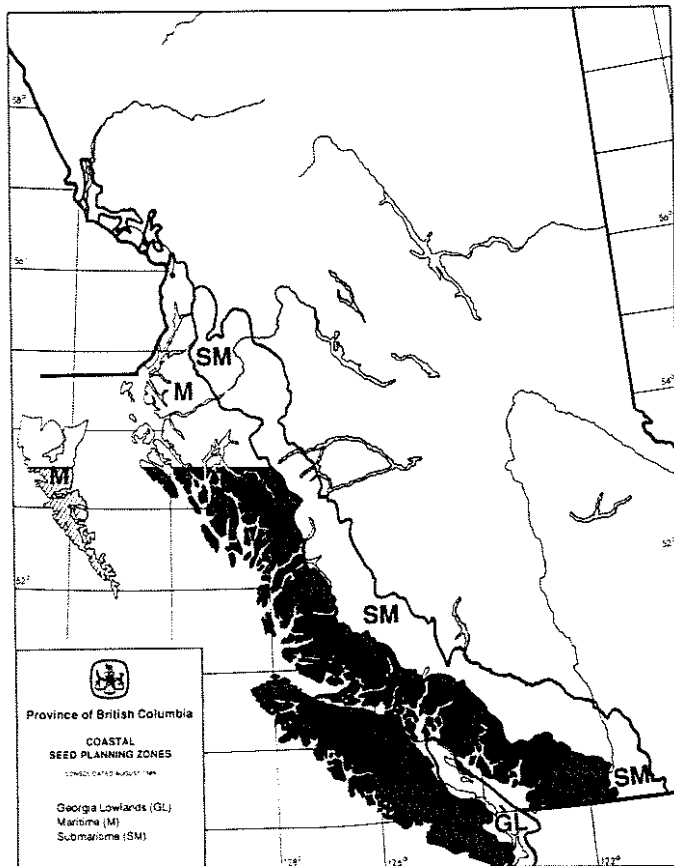
*Additional constraints apply (see p. 10).

Generalized usage areas for orchard seed

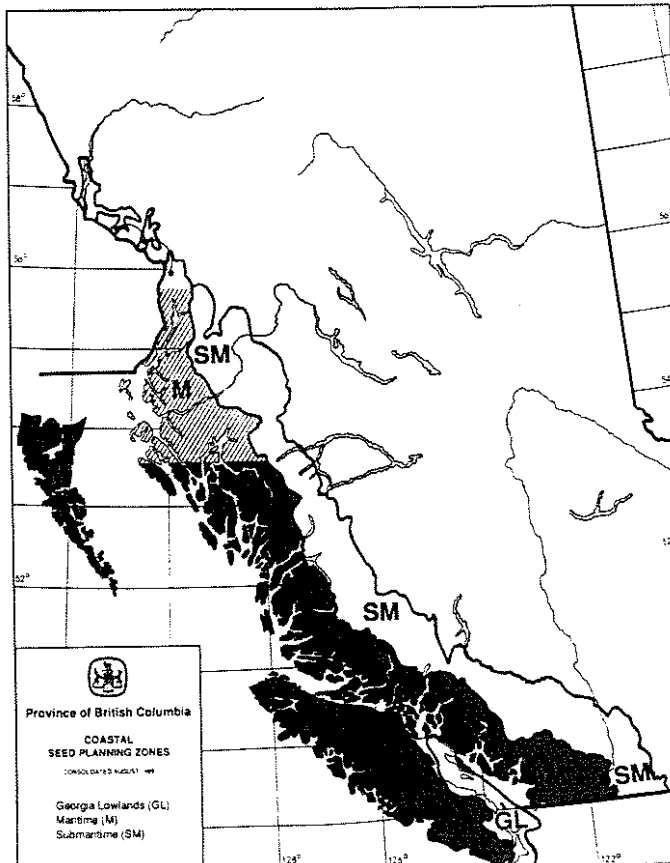
Western hemlock

Overview: Area covered by all orchards

Mid elevations



Low elevations



Detail: Area covered by specific orchards

Western hemlock

Mid Elevations

Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
163 — Ainscough	MB	M	48 00	53 00	400	1000	1995
165 — Saanichton	CPFP	M	48 00	51 45	300	900	1995
130 — Mt. Newton	FCC	M	48 00	51 45	300	900	1996
127 — Lost Lake	WFP	M	48 00	53 30	325	925	1996
143 — S. Quinsam	BCFS	M	48 00	53 15	325	925	1996

Western hemlock

Low Elevations

Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
136 — Nootka	CPFP	M	48 00	52 30	0	475	1992
133 — Sechelt	CFP	M	48 00	53 30	0	425	1993
150 — Ainscough	MB	M	48 00	52 30	0	475	1995
132 — McBean	MB	M	48 00	52 30	0	475	1995
126 — Lost Lake	WFP	M	48 00	53 30	0	400	1996
156* — Lost Lake	WFP	M	49 45	55 45	0	525	1998

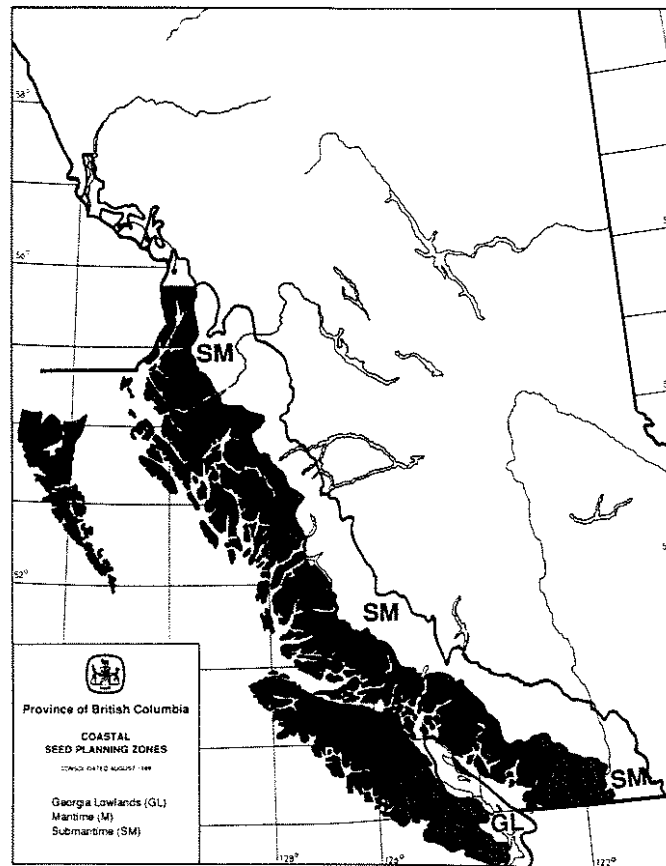
*Additional constraints apply (see p. 10).

Generalized usage areas for orchard seed

Western redcedar

Overview: Area covered by all orchards

Low elevations



Detail: Area covered by specific orchards

Western redcedar Low Elevations

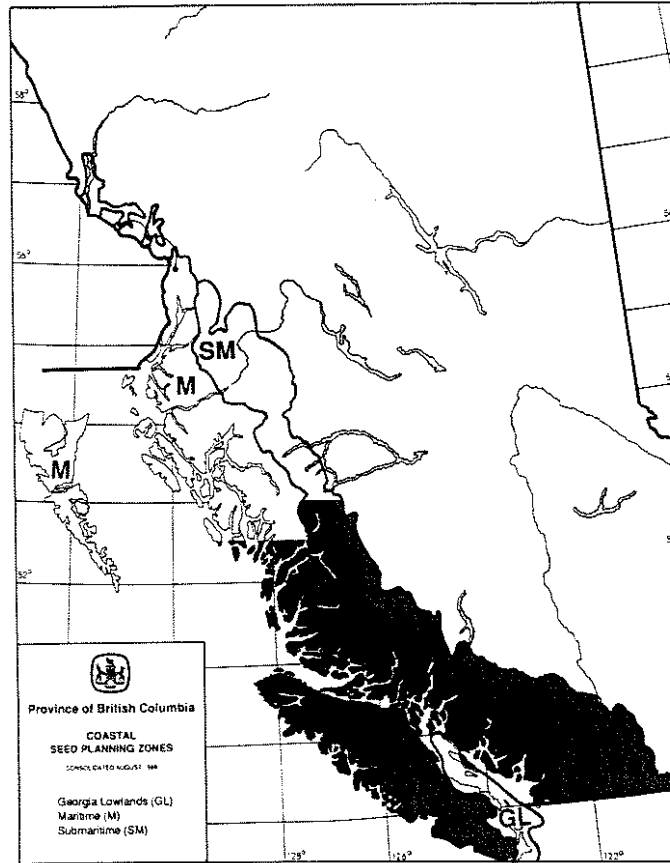
Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
140 — Mt. Newton	FCC	M	48 00	52 30	0	625	1990
152 — Mt. Newton	FCC	M	48 00	52 30	0	600	1990
155 — Lost Lake	WFP	M	51 00	55 45	0	675	1990
128 — Lost Lake	WFP	M	48 00	53 30	0	575	1992
158 — Lost Lake	WFP	M	48 00	53 30	0	575	1992
139 — Ainscough	MB	M	48 00	53 00	0	600	1995

Generalized usage areas for orchard seed

Yellow cedar

Overview: Area covered by all orchards

High elevations

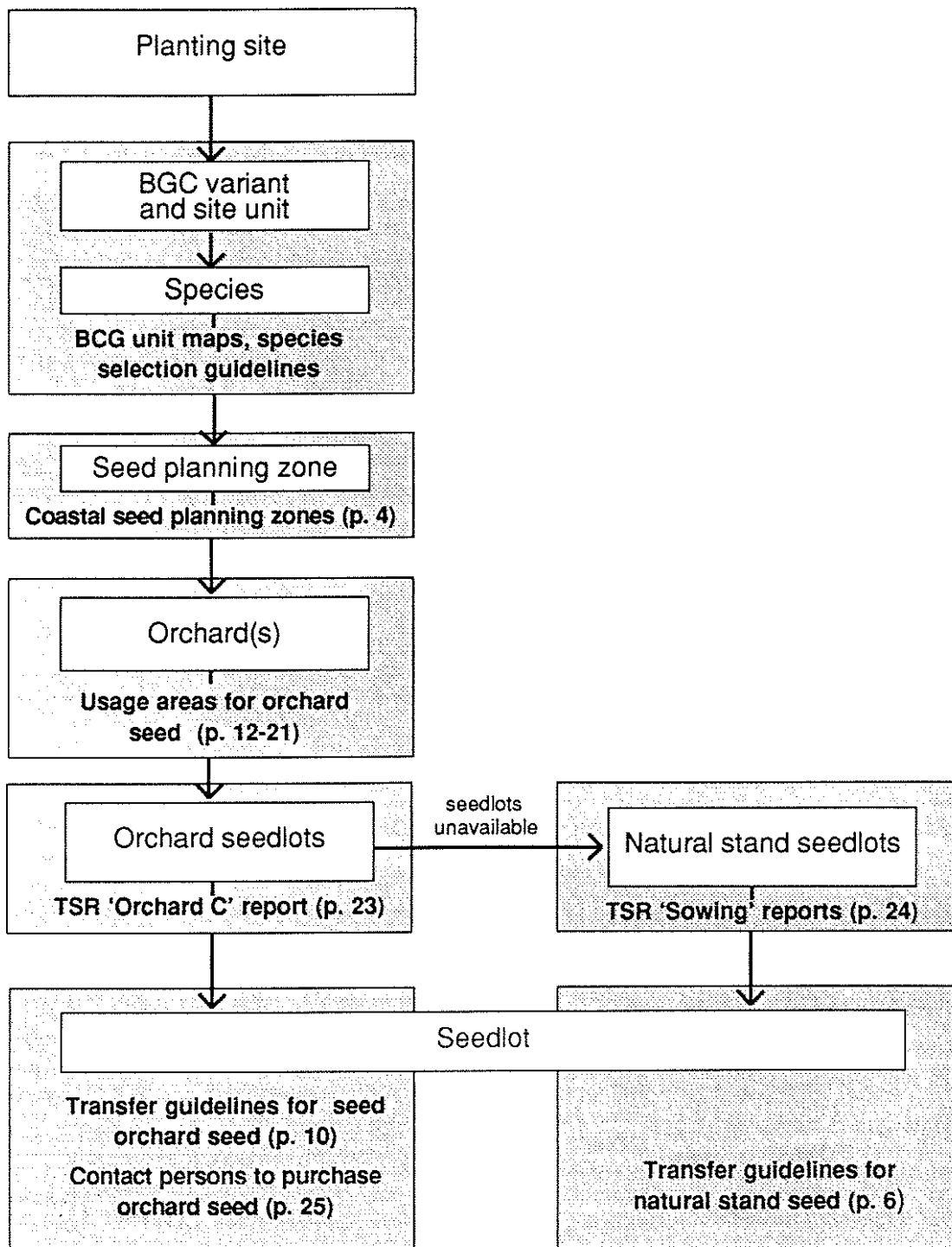


Detail: Area covered by specific orchards

Yellow cedar			High Elevations				
Orchard	Agency	Seed Planning Zone(s)	Latitude Range		Elevation Range (m)		Target Year
137 — McBean	MB	SM M	48 00	53 00	675	1475	1995
164 — Saanichton	CPEP	M	48 00	52 30	450	1250	1995
138 — Mt. Newton	FCC	M	48 00	52 30	425	1225	1997

Seedlot selection flow diagram

The following diagram illustrates steps leading to the selection of appropriate seedlots for reforestation purposes. Sources of information are given in the shaded boxes. 'TSR' refers to the Tree Seed Register and Inventory System.



Format of ORCHARDC report

JUN 21, 1990		TREE SEED REGISTER SYSTEM - ORCHARDC REPORT										PAGE 2	
SEED INVENTORY AND SEEDLING POTENTIAL													
'A' class COASTAL seedlots only. Sorted by Species, Orchard Number													
To determine recommended areas of seedlot use apply seed transfer guidelines.													
Species: FDC													
ORCH NO.	ORCHARD NAME	SEEDLOT	AGENCY	O R	D COLL	PLANNING	ELEV	LAT	GERM %	AVAILABLE BALANCE (grams)	POTENTIAL CO TREES (1000'S)	SURPLUS	
				N G	I YEAR	ZONES			X				
101	QUINSAM	04412	BCFS	C V	83				95	14,645	683.3	N	
		04652	IFP	P V	85				94	10,080	510.4	N	
		04689	HERMAN	P V	83				95	8,680	395.1	N	
		04691	JACK	P V	85				94	675	34.2	N	
		04702	WFP	P V	85				94	3,360	170.1	N	
		04704	WELDWO	P V	85				94	22,320	1,130.2	N	
		04724	GVANWD	P V	83				95	12,015	546.9	N	
		04732	DISMIS	P V	83				95	6,300	286.8	N	
		04734	TERMFP	P V	85				94	1,680	85.1	N	
		06383	BCFS	C V	7 85				94	26,625	1,317.9	N	
		06384	BCFS	C V	5 86				91	1,465	68.5	N	
		06386	BCFS	C V	8 86				90	195	9.0	N	
		06512	BCFS	C V	8 88				90	38,595	2,037.8	N	
		06513	BCFS	C V	8 89				97	37,170	2,037.0	N	
109	SAANICHTON	06208	CIPINC	P V	87				95	2,880	145.8	N	
		06355	CIPINC	P V	85				92	4,510	208.4	N	
		06361	CIPINC	P V	86				95	2,035	94.9	N	
		06525	CIPINC	P V	88				83	3,965	82.7	N	
		06790	CPFP	P V	89				96	1,505	80.7	N	
		06791	CPFP	P V	89				92	2,265	95.9	N	
		09553	PACFP	P V	83				95	455	25.6	N	
		09554	PACFP	P V	83				97	1,370	69.4	N	
110	SAANICHTON	06156	PACFP	P V	84				93	3,255	144.5	N	
110	PACIFIC S ORCH.	06157	PACFP	P V	84				95	4,330	192.2	N	
110	SAANICHTON	06283	CIPINC	P V	87				97	32,560	1,535.0	N	
		06350	CIPINC	P V	85				98	33,147	1,621.2	N	
		06351	CIPINC	P V	85				96	11,670	591.4	N	
		06392	CIPINC	P V	85				95	18,315	896.2	N	
		06360	CIPINC	P V	86				98	7,230	357.9	N	
		06523	CIPINC	P V	88				92	6,090	278.0	N	
		06524	CIPINC	P V	88				91	3,645	150.4	N	
		06788	CPFP	P V	89				94	3,910	189.1	N	
		06789	CPFP	P V	89				93	11,050	521.8	N	
		09555	PACFP	P V	83				96	7,585	429.1	N	
		09556	PACFP	P V	83				92	36,650	1,915.0	N	
		09557	PACFP	P V	83				92	4,475	228.9	N	
		09558	PACFP	P V	83				98	21,555	1,155.9	N	
		09559	PACFP	P V	83				94	715	37.0	N	
		09560	PACFP	P V	83				97	3,145	176.1	N	
111	NOOTKA	04414	TAHSIS	C V	8 83				96	230	11.9	N	
		06218	CIPINC	C V	8 87				90	1,360	65.8	N	
		06248	CIPINC	C V	8 85				94	1,490	70.4	N	
		06364	CIPINC	C V	8 86				87	2,650	71.5	N	
		06365	CIPINC	C V	8 86				97	4,120	179.7	N	

B C S Y S T E M S

Notes:

1. Available Balance - Actual seed balance net of any commitments against the seedlot.
2. Potential CO Trees (1000's) - Equivalent number of plantable trees using the Ministry Sowing Rules.
3. Owner - 'C': Crown seed
'P': Private seed
4. Surplus - 'Y': Part, or all, of seedlot offered for sale
'N': Seedlot not available to other agencies.
5. Missing information currently being derived.

Format of SOWING4 report

JUN 21, 1990		TREE SEED REGISTER SYSTEM - SOWING4 REPORT										PAGE 10		
SEED INVENTORY AND SEEDLING POTENTIAL														
Active seedlots only. Sorted by Region, District, Seed Planning Zone, Species, Elevation, Map Grid, Agency, Seedlot Seed Planning Zone and elevation are printed as **** for orchard seedlots. See ORCHARD reports.														
Region: V VANCOUVER				District: 3 SQUAMISH										
SPECIES	ELEV (M)	AGENCY	SEEDLOT	D N	GEN W CLASS	LOCATION	MAP GRID	LAT	LONG	BGC UNIT	COLL YEAR	GERM %	AVAILABLE BALANCE (grams)	POTENTIAL CO TREES (1000'S)
Seed Planning Zone: M														
BG	30	BCFS	03706	C	B3	CHEAKAMUS R	092G014	49 45	123 10		78	43	485	.0
BG	70	BCFS	09832	C	B3	CHEAKAMUS R	092G014	49 50	123 09	CWH	82	82	8,665	71.1
FDC	200	BCFP	09829	C	B2	PORT DOUGLAS	092G016	49 05	122 05	CWH	82	92	4,870	138.0
FDC	275	UBC	09791	C	B2	UBC RE FOREST	092G002	49 17	122 35	CWH	85	95	1,275	52.5
FDC	300	BCFS	01276	C	B3	NR CAT LK	092G014	49 48	123 06		66	88	34,175	1,142.4
FDC	457	WELDWO	01641	C	B2	SQUAMISH-D	092G014	49 45	123 05		68	86	600	23.7
FDC	800	BCFS	09834	C	B3	PAUL RIDGE	092G014	49 45	123 03	CWH	82	92	2,710	84.9
HW	600	BCFS	09028	C	B3	FURRY CR.	092G011	49 33	123 06	CWH	76	70	3,330	343.5
HW	1100	BCFS	03917	C	B3	RAFFUSE CREEK	092G011	49 39	122 59		79	86	3,270	508.7
SS	15	BCFS	01639	C	B2	SQUAMISH D	092G014	49 45	123 07		68	88	4,955	665.7
Seed Planning Zone: SM														
BA	1035	WELDWO	09841	C	B4	ASHLU RIVER	092J004	50 01	123 33		85	86	425	3.3
CW	300	BCFS	03521	C	B2	TFL 3B	092J004	50 09	123 31		78	69	3,985	764.3
CW	300	BCFS	09035	C	B3	NORTH CR	092J011	50 24	123 10		74	77	3,250	640.2
CW	550	BCFS	03515	C	B2	TFL 3B	092J003	50 01	123 19		78	73	370	68.8
CW	880	WELDWO	03871	C	B3	ASHLU CREEK	092G014	50 00	123 29		79	76	410	73.9
CW	1000	BCFS	03873	C	B3	HIGH FALLS CR.	092G014	49 59	123 15		79	71	3,490	634.1
FDC	457	BCFS	01261	C	B3	POOLE CRK	092J007	50 28	122 40		66	88	50	1.6
FDC	600	BCFS	01009	C	B3	GREEN LK	092J002	50 12	122 55		66	83	25	.7
FDC	850	AR	28435	P	B2	MEAGER CR		50 31	123 30	CWH B	88	90	770	26.4
FDC	850	CPFP	28427	P	B2	MEAGER CR		50 31	123 30	CWH B	88	90	1,375	47.2
FDC	850	CRB	28433	P	B2	MEAGER CR		50 31	123 30	CWH B	88	90	1,295	44.5
FDC	850	IFP	28441	P	B2	MEAGER CR		50 31	123 30	CWH B	88	90	2,745	94.2
FDC	850	RICH	28436	P	B2	MEAGER CR		50 31	123 30	CWH B	88	90	1,095	37.6
FDC	850	TERMFP	28439	P	B2	MEAGER CR		50 31	123 30	CWH B	88	90	1,095	37.6
FDC	900	BCFS	01019	C	B3	DEVINE-BLA	092J010	50 34	122 32		66	83	21,636	481.6
FDC	1000	BCFS	09835	C	B3	MEAGER CREEK	092J011	50 41	123 24	CWH	82	95	240	8.7
FDC	1250	BCFP	07786	C	B3	AINSLIE	092H014	49 45	121 15		82	84	55	1.6
FDI	400	BCFS	28426	C	B3	OWL CREEK	092J007	50 22	122 44	IDF E	87	91	2,390	65.3
HM	1000	WELDWO	09838	C	B3	ASHLU CREEK	092J004	50 01	123 33	MH	82	91	2,855	396.8
HW	579	BCFS	03040	C	B2	HIGHFALL C	092G014	49 57	123 17		76	68	1,410	161.1

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Contacts to purchase orchard seed

Crown seed

Contact Regional Office for which seedlot has been registered, i.e.,

Vancouver Forest Region
Ministry of Forests
4595 Canada Way
Burnaby, B.C.
V5G 4L9
Attention: Silviculture (660-7585)

Prince Rupert Forest Region
Ministry of Forests
Bag 5000
Smithers, B.C.
V0J 2N0
Attention: Silviculture (847-7500)

Private seed

Saanich Forestry Centre (CPFP)
Canadian Pacific Forest Products Ltd.
8067 E. Saanich Road, R.R. #1
Saanichton, B.C.
V0S 1M0
Attention: Superintendent (652-4023)

MacMillan Bloedel Ltd. (MB)
65 Front Street
Nanaimo, B.C.
V9R 5H9
Attention: Seed Procurement Supervisor
(755-3467)

Canadian Forest Products Ltd. (CFP)
Sechelt Seed Orchard
R.R. # 1, Chapman Road
Sechelt, B.C.
V0N 3A0
Attention: Tree Improvement Forester
(885-5905)

Western Forest Products Ltd. (WFP)
1020 Beckwith Ave.
Victoria, B.C.
V8X 3S4
Attention: Seed Orchard Manager
(479-4911)

Fletcher Challenge Canada Ltd. (FCC)
Box 130,
Crofton, B.C.
V0R 1R0
Attention: Silviculturist (246-9933)

Yellow Point Propagation (YLPT)
Long Lake Road
R.R. No. 3
Ladysmith, B.C.
V0R 2E0
Attention: Don Piggot (245-4635)