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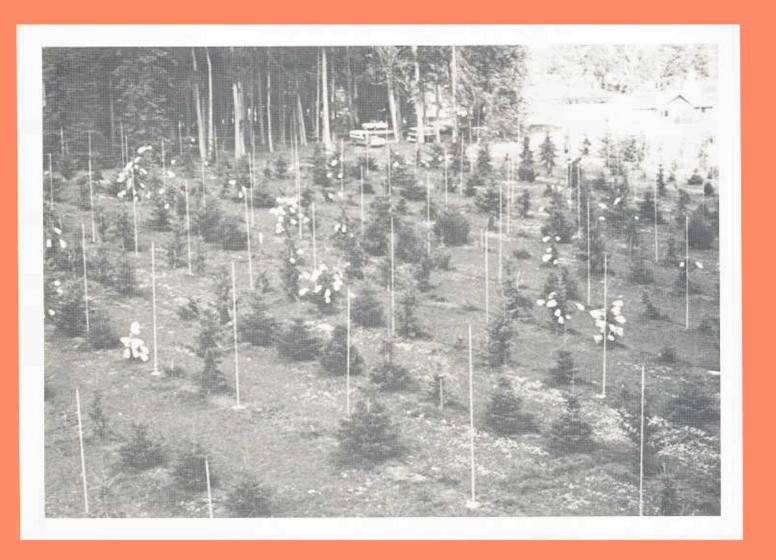
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Canadian National List of Seed Orchards, 1981

D.F.W. Pollard





CANADIAN NATIONAL LIST OF SEED ORCHARDS, 1981

by

D.F.W. Pollard

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ABSTRACT

One hundred and twenty nine forest tree seed orchards occupying 364 hectares are listed by province for Canada. The list identifies species, ownership, location, area (of orchard), objective (zones of intended seed use), composition (full sib, half sib or clonal), and year of establishment. This is the first national list of seed orchards and includes all known orchards existing and established by December 31, 1981.

RÉSUMÉ

Ce document énumère, par province, 129 vergers à graines qui occupent une superficie de 364 hectares au Canada. Pour chacun, on précise les essences, les propriétaires, l'emplacement, la superficie, les objectifs (zones prévues d'utilisation des graines), la composition (fratries, demi-fratries, clones) et l'année d'établissement. C'est le premier répertoire national des vergers; il comprend tous les vergers connus établis avant le 31 décembre 1981.

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INTRODUCTION

The need for a national list of seed orchards arises principally from Canada's participation in the Organization for Economic Cooperation and Development (OECD) Scheme for the Control of Forest Reproductive Material Moving in International Trade. OECD regulations for this Scheme* call for each member country to establish and publish a National List of Approved Basic Material.

The term "Approved" implies that basic material, i.e. trees from which seeds are obtained, meet the standards laid down in the OECD regulations.

To apply the OECD Scheme in Canada, the Canadian Forestry Service (CFS) has established national regulations for the certification of source - identified tree seeds**. Since inception of the OECD Scheme in 1970, sources of seeds for export have been limited to wild stands in western Canada for which certification of source identity has been requested. However, the OECD Scheme includes three other categories (selected, untested seed orchard, and tested reproductive material). Certification for these latter categories, whose genetic specifications entail more than source identity, requires that the seed sources themselves meet OECD regulatory standards. The list of seed sources that meets these requirements will eventually become the National List of Approved Basic Material as called for by OECD. Future certification of these higher categories will depend, of course, on the demand placed on seed producers and exporters, on the availability of supplies for export, and on the development of Canadian regulations for these categories.

^{*} Anon. 1974. OECD Scheme for the control of forest reproductive material moving in international trade. Org. Economic Cooperation and Development, Directorate for Agriculture and Food, Paris. 24. p.

^{**} Piesch, R.F., and Stevenson, R.E. 1976. Certification of source-identified Canadian tree seed under the OECD Scheme. Can. For. Ser., For. Tech. Rep. 19, 18 p. + map.

A separate but closely related issue is the establishment of Regulations for Forest Tree Seeds pertaining to the Seeds Act of Canada. Proposed regulations were drafted in January 1981[†] and were reviewed in 1982. The precise form of the regulations will depend on that review and on acceptance of revisions. An objective to be vigorously pursued will be the alignment of Canadian national regulations with those of OECD so that a single, proven scheme can be administered for both national and international movements. Implicit in the national regulations, therefore, will be a scheme for the certification of seeds according to categories comparable with those of OECD. Seed sources, including seed orchards, meeting the certification requirements would be entered in a National Registry of Seed Sources. However, such alignments are only proposals at the time of writing.

This first national list of seed orchards could serve several purposes in the near future:

provide a comprehensive list of seed orchards for case studies of individual species currently conducted by OECD

provide a data base for the development of a National List of Approved Basic Material for submission to the OECD secretariat

provide a data base for the development of a Canadian National List of Seed Sources under the supervision of a Registrar (as proposed under Regulations for Forest Trees Seeds)

provide a data base for the assessment of seed production potential and availability for domestic forest renewal with genetically-improved stock (from data compiled on the OECD Seed Orchard Registration Form; see Appendix 1).

Quite apart from its expressed purposes, this first list of Canadian seed orchards will provide a single reference source for tree breeders, forest managers and others, both in Canada and abroad. The list will be updated periodically and will serve to record progress on the establishment of approved lists for OECD and domestic purposes.

[†] Pollard, D.F.W., Edwards, D.G.W., and Wang, B.S.P. "Forest Tree Seeds Regulations." Can. For. Serv. Unpub. manus. Jan. 15, 1981. 29 p.

CANADIAN NATIONAL LIST OF SEED ORCHARDS, 1981

The following list of seed orchards in Canada was compiled at the Pacific Forest Research Centre from information gathered in 1981 by staff of Regional and National Forest Research Centres of the CFS. In most instances, provincial government departments responsible for forestry were the chief sources of information, because seed orchards are usually established and administered under their authority or through a council or cooperative in which they perform a leading role.

CANADIAN NATIONAL LIST OF SEED ORCHARDS DECEMBER 1981

Species	Ownership	Location	Area (ha)	Objective (seed orchard planning zone; elevations in m)	Composition	Year est.
ALBERTA						
None						
BRITISH COLUMBIA	LUMBIA		s.			
Coastal Region	oo					
Ps me Ps me	BCMF-Quinsam PFP PFP	Campbell R. Saanich	7.80	EVI 450-610 EVI O-450	C,S, 1/2 S C, 1/2 S	1963
Ps me Ps me	Tahsis "C" BCMF-Koksilah	Saanich	3.50	WVI 0-450 SCM CIT 450-640	C,S, 1/2 S	1969-75 1969-75 1970
Ps me Ps me	BCMF-Snowdon	Campbell R. Sechelt	2.40	35 0-300 EVI, 35 450-610	C, 1/2 S	1971
Pic si Ps me	Tahsis MB	Saanich Yellow Pt.	0.90	WVÍ 0-450 High	υυ	1973
Ps me Ps me	BCMF-Dewdney PFP	Saanich Saanich	7.20	CIT 760-1070 EVI 550+	C, 1/2 S S	1975
Ps me Ps me Ps me	MB MB MB	Harmac Harmac Harmac	1.20 1.00 0.50	Dry Mid Dry Mid Dry Low	000	1976-78 1976-78 1976
Ps me	MB	Harmac Total	1.00	Wet Low	U	1976
Central Interior Region	ior Region					
Pin co Pin co Pin co	BCMF BCMF BCMF BCMF	Red Rock Red Rock Red Rock Red Rock	4.40 1.70 3.20 5.50	Omenica-Pinchi Dawson-Peace Willow-Bowron Smithers	0000	1974 1978 1978 1979

Canadian National List of Seed Orchards (Continued)

Species	Ownership	Location	Area (ha)	Objective (seed orchard planning zone; elevations in m)	Composition	Year est.
Central Interior (Cont'd)	ior (Cont'd)					
Pic Pic Pic Pic	BCMF BCMF BCMF BCMF	Skimikin Skimikin Skimikin Skimikin Total	4.00 3.20 2.90 3.30 28.20	Central Plateau Low Central Plateau High Bulkley Low Bulkley High	UUUU	1979 1979 1980 1980
Southern Interior Region	rior Region					
Pic Pic	BCMF BCMF	Skimikin Skimikin Total PROVINCE TOTAL	1.20 3.00 4.20 77.90	West Kootenay Low West Kootenay High	υυ	1980 1980
MANITOBA						
Pin ba CFS Pin re MD Pic gl MD Pic gl MD Pic ma MD Pic ma MD Pin ba MD Pin gl MD	CFS MDNR MDNR MDNR MDNR MDNR MDNR	Oakbank Hadashville Hadashville Hadashville Hadashville Hadashville The Pas	0.30 0.10 0.20 0.20 0.20 0.20	SEM 49-50°N 49-52°N 49-54°N 49-54°N 52-54°N 52-54°N	1/2 S C C C 1/2 S 1/2 S C C C	1972 1972 1980 1981 1981 1982 1982
La de La La le	CFS CFS VFP	Macdonalds Cor. Macdonalds Cor. Canterbury	0.50 0.50 0.50	SNB SNB SNB	1/2 S C, 1/2 S C	1974 1974 1977

Canadian National List of Seed Orchards (Continued)

NEW BRUNSY Pic ma Pic gl			(IId.)	(seed orchard planning zone; elevations in m)		est.
Pic ma Pic gl Pic gl	NEW BRUNSWICK (Cont'd)					
Pic gl Pic gl	Fraser	Green River	2.00	NWNB	1/2 S	1978
Pic gl	NBDNR	Pokiok	7.65	SNB	1/2 S	1978
	NBDNR	Pokiok	0.50	SNB		1979
Pic ma	NBDNR	Pokiok	00.9	SNB		1979
Pic ba	NBDNR	Cains River	5.40	CNB		1979
Pic ma	Fraser	Three Brooks	4.00	NWNB	1/2 S	1979
Pic ma	Irving	Black Brook	4.00	NWNB		1979
Pin ba	Irving	Dube Settlement	5.40	SNB		1979
Ріс та	NBIP	Levesque Rd.	4.00	NNB		1979
Pic ma	NBDNR	Pokiok	1.50	SNB		1980
Pic ma	NBDNR	Bettsburg Rd.	00.9	CNB		1980
Ріс та	Fraser	Three Brooks	3.80	NWNB		1980
Pic ma	Irving	Black Brook	2.80	NWNB		1980
Pic ma	NBIP	Levesque Rd.	4.00	NNB		1980
Pic ma	GP	Magaguadavic	2.30	SNB		1980
Pic ma	NBDNR	Bettsburg Rd.	4.60	CNB		1981
Pin ba	NBDNR	Cains River	2.60	CNB		1981
Pic ma	Fraser	Three Brooks	4.00	NWNB	1/2 S	1981
Pic ma	Irving	Deersdale	4.00	CNB		1981
Pin ba	Irving	Blackbrook	4.00	NWNB		1981
Pic ma	GP	Magaguadavic	2.20	SNB	1/2 S	1981
Pic ma	GP	Magaguadavic Total	2.00	SNB		1981
NOVA SCOTIA	4					
Pic ru	NSLF	Lawrence Town	1.60		S	1977
Pic gl	NSLF	MacOuarrie Lake Rd.	3.60		1/2 S	1978
Pic gl	NSLF	East Mines	1.20	SZ	: :	1981
Pic ru	NSLF	Waterville	0.76		U	1981
Pic ab	NSLF	Debert	0.98		U	1861
Pin st	NSLF	Debert	1.05		U	1981

Canadian National List of Seed Orchards (Continued)

			(ha)	(seed orchard planning zone; elevations in m)	Composition	est.
NEWFOUNDLAND	LAND					
	None					
ONTARIO						
Pin st	OMNR	Nepean	0.80	ER Ottawa Dis.	1/2.5	1947
Pic gl	KC	Longlac	0,40	NER (3W)		1958-78
Pic ma	KC	Longlac	0,40	· NER (3W)	U	1958-78
Pin re	OMNR	Grenfell	9.30	NR Kirkland Lake Dis.	1/2 S	1959-67
Pin sy	OMNR	Midhurst	09.0	CR		1960
Bet all	OMNR	Angus	0.04	CR		1960
Pin sy	OMNR	Angus	0.08	CR		1960
Pin st	OMNR	Orono	7.40			1963-71
Pin re	OMNR	Forest Station	0.80	NCR Thunder Bay Dis.		1964
Pin re	OMNR	Gurd	5.70		1/2 S	1964-71
Pin st	OMNR	Gurd	3.00	-		1964-71
Pic gl	OMNR	Mattawin	3.60	50.0		1966-71
Pic ma	OMNR	Mattawin	3.60	NCR Thunder Bay Dis.	1/2 S	1966-72
Pic gl	OMNR	Midhurst	1.80	CR	1/2 S	1966-72
Ro ps	OMNR	St. Williams	*	SWR	U,	1969
Pic gl	OMNR	Pearson	0.80	NCR Thunder Bay Dis.		1971
Ac sa	OMNR	Orono	0.30	CR		1966-72
La de	OMNR	Orono	0.08	CR		1971
Pic ma	OMNR	Glencairn	5.40	CR Huronia Dis.		1972-79
Pic gl	OMNR	O'Connor	1.60			1973-79
Ріс та	OMNR	O'Connor	2.00	NCR Thunder Bay Dis.		1973-79
Pic gl	OMNR	Glencairn	6.50	CR Huronia Dis.		1973-79
Ac sa	OMNR	Glencairn	0.50	CR Huronia Dis.		1974
Pic gl	OMNR	Aubrey	1.40	NWR Dryden Dis.		1975-79
Pic ma	OMNR	Aubrey	2.00	NWR Dryden Dis.		1975-79
Pic ma	OMNR	Pearson	0,40	NCR Thunder Bay Dis.	1/2 S	1975

Canadian National List of Seed Orchards (Continued)

Species	Ownership	Location	Area (ha)	Objective (seed orchard planning zone; elevations in m)	Composition	Year est.
ONTARIO (Cont'd)	ont'd)					
-	or o		c	מייים אייייות משוא		701
PIC gl	OMNR	Curd	0.00	NEK North bay Dis.		17/6
Pic ab	OMNR	Glencairn	1.00	CR Huronia Dis.		9/61
Pin st	OMNR	Glencairn	0,40	CR Huronia Dis.		1978
Pic gl	OMNR	Tovell	1.20	NWR Fort Frances Dis.		1979
Pic ma	OMNR	Tovell	1.20	NWR Fort Frances Dis.	1/2 S	1979
Pin ba	OMNR	Spoor Lake	3.00	Algonquin Region 5	1/2 S	1980-81
16 1/4/10		Total	66.10			
* Windbreaks	saks					
PRINCE EDW	PRINCE EDWARD ISLAND					
Pic ma	PEIFB	48 Road, Kings Co.	5.00	PEI	1/2 S	1980
QUEBEC						
Pic ma	MER	Canton Hamilton	09.0	Zone 11		1973
Pic el	MER	Canton Hamilton	1.10	Zone 11		1973
Pic ru	MER	Canton Hamilton	0.10	Zone 11		1973
Pic ab	MER	Seig. Madawaska	1.10	Zones 8, 10	1/2 S	1974
Pic gl	MER	Seig. Madawaska	1.00	Zones 8, 10		1974
Pic ma	MER	Canton Masson	_			1974
Pic ab	MER	Canton Masson	_			1974
Pic gl	MER	Canton Masson	_			1974
Pic ru	MER	Canton Masson	7.00	Zones 4.5		1974
Pin ba	MER	Canton Masson				1974
Pin sy	MER	Canton Masson	4			1974
La la	MER	Canton Masson	_		1/2 S	1974
La de	MER	Canton Masson	_		1/2 S	1974
La la	MER	Bonaventure	0.20	Baie des Chaleurs		1975
9 c	MFR	Vercheres	3.60	Haut-St-Laurent	1/2 S	9261

Canadian National List of Seed Orchards (Continued)

Species	Ownership	Location	Area	Objective	Composition	Vear
			(ha)	(seed orchard planning zone; elevations in m)	TOTAL CONTROL	est.
QUEBEC (Cont'd)	int'd)					
Pic ab	MER	Seig, Batiscan	6.10	Zone 5		9261
Pic ab	MER	Seig. Beloeil	1.40	Zone 7	1/2 §	1976
La de	MER	Lotbiniere	09.0	Moyen St-Laurent		1976
La la	MER	Lotbiniere	09.0	Moyen St-Laurent	U	1977
Pin st	MER	Seig. Beloeil	4.50	Zone 7	1/2 S	1978
Pin ba	MER	Canton Briand	48.30	Zone 5	1/2 5	1978
Pin ba	MER	Canton Guigues	0.70	Zones 1.4	1/2	1978
La le	MER	Lotbiniere	3.70	Haut-St-Laurent, Estrie		1979
La de	MER	Lotbiniere	3.70	Haut-St-Laurent, Estrie	C	1979
La de	MER	Villeroy	2.00	Estrie	C	1979
Pic ma	MER	Canton Normandin	2.30	Zone 2		1979
Pin re	MER	Canton Normandin	3.50	Zone 2		1980
Pic gl	MER	Seig. Aubin de l'Isle	2.00	Zone 9	1/2 S	1980
Pin re	MER	Seig. Beloeil	2.70	Zone 7		1980
Pin ba	MER	Canton Duvernay	12.00	Zone I		1980
La le	CIP	Batiscan Total	2.00	Haut-St-Maurice	S	1980
SASKATCHEWAN	WAN					
Pin ba	PAP	Henribourg	7.50	NCS	U	1979-81
UKON AND	YUKON AND NORTHWEST TERRITOIRES	RRITOIRES				
None						

CANADA TOTAL 129 orchards; area: 363.97 ha

ABBREVIATIONS - SPECIES

Ac sa	Acer saccharinum L.
AI	(unspecified species) Alnus
Bet all	Betula alleghaniensis Britton
La	hybrids of (Larix leptolepis x L. laricina) x L. decidua
La de	Larix decidua Mill.
La la	Larix laricina (Du Roi) K. Koch
La le	Larix leptolepis (Sieb. and Zucc.) Gord.
Pic	unspecified sources or hybrids of Picea glauca and/or P.
	engelmannii Parry normally referred to as interior spruce.
Pic ab	Picea abies (L.) Karst.
Pic gl	Picea glauca (Moench) Voss.
Pic ma	Picea mariana (Mill.) BSP.
Pic ru	Picea rubens Sarg.
Pic si	Picea sitchensis (Bong.) Carr.
Pin ba	Pinus banksiana Lamb.
Pin co	Pinus contorta Dougl. var. latifolia Engelm.
Pin re	Pinus resinosa Ait.
Pin st	Pinus strobus L.
Pin sy	Pinus sylvestris L.
Ps me	Pseudotsuga menziesii (Mirb.) Franco
Ro ps	Robinia pseudoacacia L.

ABBREVIATIONS - OWNERSHIP AND OBJECTIVES

British Columbia	Ownership	
	BCMF CFP MB PFP	British Columbia Ministry of Forests Canadian Forest Products Limited MacMillan Bloedel Limited Pacific Forest Products Ltd.
	Objective	
	CIT EVI JS SCM WVI Dry Wet Mid Low High	Coast Interior Transition Eastern Vancouver Island Johnstone Strait South Coast Mainland Western Vancouver Island Dry sites on Vancouver Island and Coast Wet sites on Vancouver Island and Coast Mid-elevations Low-elevations on Vancouver Island and Coast
Manitoba	Ownership	
	MDNR	Manitoba Department of Natural Resources
	Objective	
	SEM	Southeast Manitoba
New Brunswick	Ownership	
	CFS Fraser GP Irving NBDNR NBIP VFP	Canadian Forestry Service Fraser Incorporated Georgia Pacific Corporation J.D. Irving Limited New Brunswick Department of Natural Resources New Brunswick International Paper Company Valley Forest Products Limited
	Objective	
	CNB NNB NWNB SNB	Central New Brunswick North New Brunswick Northwest New Brunswick South New Brunswick

ABBREVIATIONS - OWNERSHIP AND OBJECTIVES (Cont'd)

NSLF Nova Scotia Department of Lands and Forests Objective NS Nova Scotia Ontario Ownership KC OMNR Ontario Ministry of Natural Resources Objective CR Central Region - 7 Eastern Region - 6 NR Northern Region - 3 NCR Northeastern Region - 4 NWR Northwestern Region - 4 NWR Northwestern Region - 8 Prince Edward Island Ownership PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Objective PAP SFB Prince Albert Pulpwood Saskatchewan Forestry Branch Objective Saskatchewan Forestry Branch	Nova Scotia	Ownership	
Ontario NS Nova Scotia Ownership KC OMNR Ontario Ministry of Natural Resources Objective CR Central Region - 7 ER Eastern Region - 6 NR Northern Region - 3 NCR Northern Region - 2 NER Northeastern Region - 1 SWR Southwestern Region - 1 SWR Southwestern Region - 8 Prince Edward Island Ownership PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP Prince Albert Pulpwood SFB Saskatchewan Forestry Branch		NSLF	Nova Scotia Department of Lands and Forests
Ontario Ownership KC		Objective	
KC OMNR Ontario Ministry of Natural Resources Objective CR Central Region - 7 ER Eastern Region - 6 NR Northern Region - 3 NCR Northcentral Region - 2 NER Northeastern Region - 4 NWR Northwestern Region - 1 SWR Southwestern Region - 8 Prince Edward Island Ownership PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP SFB Saskatchewan Forestry Branch		NS	Nova Scotia
OMNR Ontario Ministry of Natural Resources Objective CR Central Region - 7 ER Eastern Region - 6 NR Northern Region - 3 NCR Northeart Region - 2 NER Northeastern Region - 4 NWR Northwestern Region - 1 SWR Southwestern Region - 8 Prince Edward Island Ownership PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP SFB Saskatchewan Forestry Branch	Ontario	Ownership	
CR Eastern Region - 7 ER Northern Region - 6 NR Northern Region - 2 NER Northeastern Region - 4 NWR Northwestern Region - 1 SWR Southwestern Region - 8 Prince Edward Island Ownership PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP Prince Albert Pulpwood Saskatchewan Forestry Branch			
ER NR Northern Region - 6 NR Northern Region - 3 NCR Northcentral Region - 2 NER Northeastern Region - 4 NWR Northwestern Region - 1 SWR Southwestern Region - 8 Prince Edward Island Ownership PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP SFB Saskatchewan Forestry Branch		Objective	
PEIFB Prince Edward Island Forestry Branch Quebec Ownership CIP CIP Incorporated MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP Prince Albert Pulpwood Saskatchewan Forestry Branch		ER NR NCR NER NWR	Eastern Region - 6 Northern Region - 3 Northcentral Region - 2 Northeastern Region - 4 Northwestern Region - 1
Quebec CIP CIP Incorporated MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan PAP Prince Albert Pulpwood Saskatchewan Forestry Branch	Prince Edward Island	Ownership	
CIP Incorporated MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP Prince Albert Pulpwood SFB Saskatchewan Forestry Branch		PEIFB	Prince Edward Island Forestry Branch
MER Ministère de l'Énergie et des Ressources Objective Zone Part of Seed Zone indicated Saskatchewan Ownership PAP Prince Albert Pulpwood SFB Saskatchewan Forestry Branch	Quebec	Ownership	
Zone Part of Seed Zone indicated Saskatchewan Ownership PAP Prince Albert Pulpwood SFB Saskatchewan Forestry Branch		1000	
Saskatchewan Ownership PAP Prince Albert Pulpwood SFB Saskatchewan Forestry Branch		Objective	
PAP Prince Albert Pulpwood SFB Saskatchewan Forestry Branch		Zone	Part of Seed Zone indicated
SFB Saskatchewan Forestry Branch	Saskatchewan	Ownership	
Objective			
		Objective	
NCS North Central Saskatchewan		NCS	North Central Saskatchewan

ABBREVIATIONS - COMPOSITION

C - Clonal S - Full-sib (controlled pollination) seedling 1/2 S - Half-sib (open pollination seedling)

APPENDIX 1

OECD Form AGR/TS(80)6 REGISTRATION OF SEED ORCHARD

(1st Revision, 9th January 1981)

KATION OF 3E	EDORCHAR	.13				Country	
							ce No
							Intested 19
						*Approved as	Tested 19
Identification							
*Species	NAT TO SERVICE AND ADDRESS OF THE PARTY.						
2 N	(Common	name)		(Bota	nical name)	
Ownership							
Supervisor							
Location Latitude			2010 Cale Car 2010 210	0		740 00	
*Area		ha		e Herences			
200,58		- 1195	andp iss	tes circus			
*Objective							
Selection crit							
Regions of pro	obable adapta	tion					
					-		
Seed yield, es	timated ages						kg annual
Composition		rent trees repr t rema blishm. I		Year of propagation or ripening		*Year of etablishment	Spacing 19 19
Clones						2 2 3 5 4 5 4 4 4	
Full sibs							
Hall sibs							
*Design and la	ivout						
*Isolation		**********					
Basic material							
The informations, Fo	tion can b r more advan	e pooled fo ced seed orcha	or parent tr rds, breeding r	ees of same ecords should be	origin, g submitted.	rowing under Use back of pap	similar ecologic per-
		• Pro	venance.			*Origin	
Parent							

^{*} indicate that the information is compulsory according to the OECD Rules.

^{**} where applicable.