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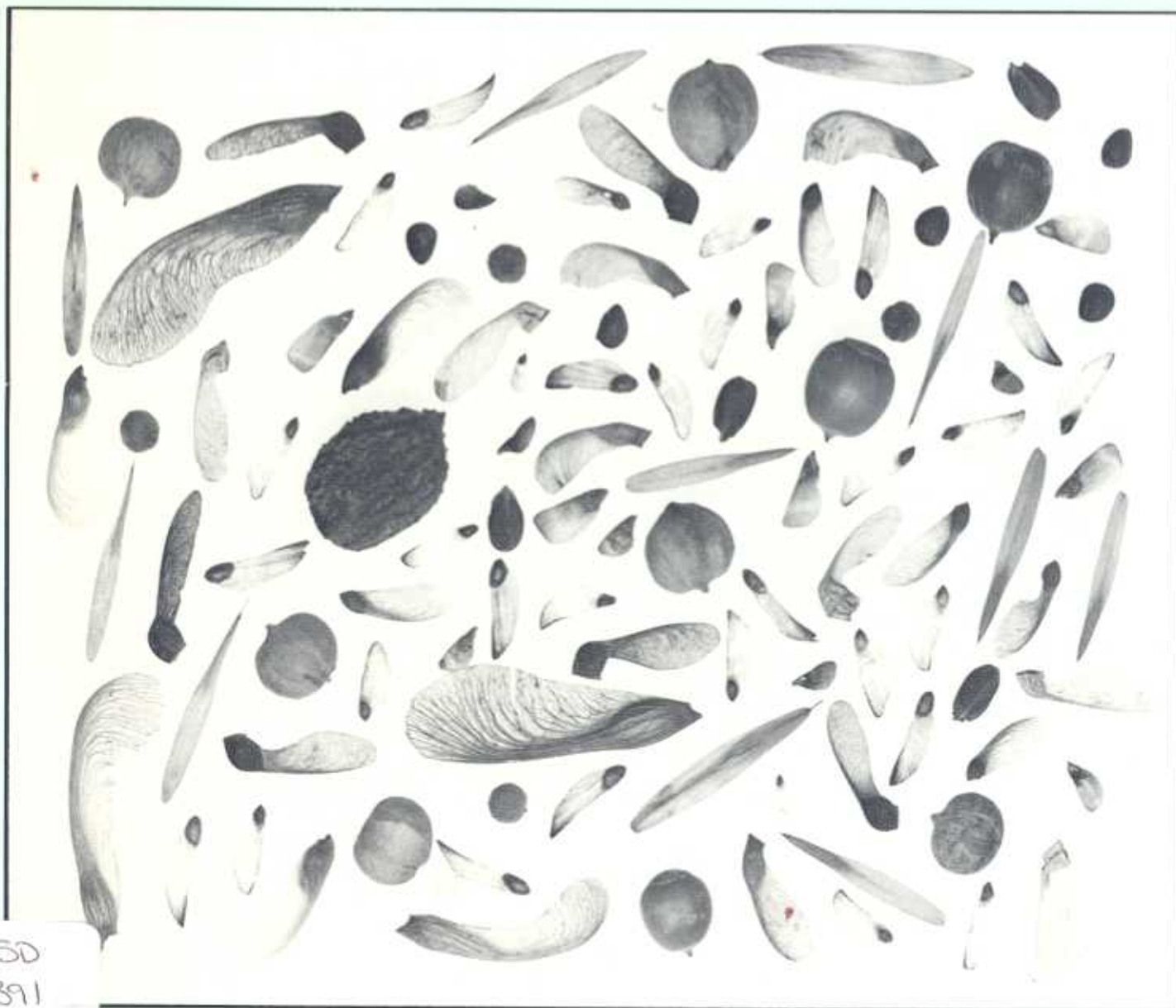
Canadian
Forestry
Service

Service
canadien des
forêts

A list of seed in the
Canadian Forestry Service Seed Bank
Une liste des semences de la
Banque de semences du
Service canadien des forêts

P.S. Janas

Information Report/Rapport d'information PI-X-58 E/F



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PETAWAWA NATIONAL FORESTRY INSTITUTE

In common with the rest of the Canadian Forestry Service, the Petawawa National Forestry Institute has as its objective the promotion of better management and wiser use of Canada's forest resource to the economic and social benefit of all Canadians. Objectives of program activities carried out at the Institute support this goal through discovery, development, demonstration, implementation, and transfer of innovations. Because it is a national institute, particular emphasis is placed on problems that transcend regional boundaries or that require special expertise and equipment that cannot be duplicated in CFS regional establishments. Such research is often performed in close cooperation with staff of the regional centres or provincial forest services.

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FOREST GENETICS AND BIOTECHNOLOGY — Integrates projects in tree genetics, soil microbiology, micropropagation, molecular genetics, and seed research. It also includes the client services and seed bank operations of the National Tree Seed Centre, a long-standing program with extensive international affiliations.

FOREST MANAGEMENT SYSTEMS — This program integrates projects in fire, remote sensing, meteorology, modelling, growth and yield, and FIDS to provide research and development for the formulation and demonstration of forest management systems.

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THE RESEARCH FOREST — Besides natural stands manipulated in a variety of ways for silvicultural research, the 98 km² Petawawa Forest contains extensive areas of plantations dating back six decades. Research plantations are a source of growth and yield data derived from cultural experiments, and they are becoming valuable for pedigreed genetic materials for micropropagation and molecular genetics studies. The forest also offers opportunities for short- and long-term testing of forest management strategies.

A LIST OF SEED IN THE
CANADIAN FORESTRY SERVICE
SEED BANK

UNE LISTE DES SEMENCES
DE LA BANQUE DE SEMENCES
DU SERVICE CANADIEN DES FORÊTS

P.S. Janas

Information Report

Rapport d'information

PI-X-58(E/F)
1985

Petawawa National Forestry Institute
Canadian Forestry Service

Institut forestier national
de Petawawa
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P.S. Janas est chef de la Banque de semences et des Services aux clients à l'Institut forestier national de Petawawa.

A LIST OF SEED IN THE
CANADIAN FORESTRY SERVICE
SEED BANK

ABSTRACT

Information is given on the native and exotic forest tree and shrub seed available for research purposes from the Canadian Forestry Service Seed Bank at the Petawawa National Forestry Institute. It supersedes Information Report PI-X-39E/F. Reference is made to the procurement of seed and the maintenance of seed quality.

Introduction

Forest research is long term and often costly. It is, therefore, important that only seed of known origin and quality be used for species trials, tree breeding, genetics studies, and other silvicultural experiments. To this end, the National Tree Seed Centre at the Petawawa National Forestry Institute holds seed in cold storage at the seed bank, and procures from other establishments seed of a wide range of species and geographic origins. Information on indigenous and exotic forest tree and shrub seed available to researchers from the seed bank is provided in this report.

Seed procurement

The seedlots described in the attached list have been procured in several ways. Some collections were made by staff at PNFI and others by cooperators in the Canadian Forestry Service regional research centres, provincial forest services, forest industries, and other federal agencies. Several seedlots were procured through exchange with foreign

UNE LISTE DES SEMENCES
DE LA BANQUE DE SEMENCES
DU SERVICE CANADIEN DES FORÊTS

RÉSUMÉ

Ce rapport fournit des renseignements sur les semences d'arbres et arbustes, indigènes ou exotiques, que l'on peut se procurer pour fins de recherches à la Banque de semences du Service canadien des forêts, à l'Institut forestier national de Petawawa. Il remplace le rapport d'information PI-X-39E/F. La façon de procurer les semences et de maintenir leur qualité est indiquée.

Introduction

Comme la recherche forestière est une activité de longue haleine et souvent coûteuse, il est important que seules les semences d'origine et de qualité connues servent aux essais sur les espèces, à l'amélioration génétique des arbres, et aux autres expériences de nature sylvicole. Pour ce faire, le Centre national de semences forestières à l'IFNP veille à garder des semences dans les chambres frigorifiques, et obtient de différents organismes des graines d'essences très variées et de pays très divers. Le présent rapport montre comment les chercheurs, par l'intermédiaire de la banque de semences, peuvent se procurer ces semences d'arbres et arbustes forestiers indigènes et exotiques.

Obtention des semences

Les lots de semences décrits dans la liste ci-jointe ont été obtenus de plusieurs façons. Quelques-uns ont été fournis par l'IFNP, d'autres par des collaborateurs des centres de recherches régionaux du Service canadien des forêts, et par ceux des services forestiers provinciaux, des industries forestières et d'autres organismes fédéraux. Des lots

agencies or purchased from seed dealers in Canada and abroad.

The control of seed origin is maintained by collecting from natural stands at identified locations only, or from planted trees of known origin. The control and identification of seed origin have been described by Wang (1973).

Unless otherwise requested, all seed is collected in fair to good crop years to ensure high quality and an appropriate genetic sample of the population.

Seed quality

Proper control of seed quality will minimize confounding influences and increase confidence in research results. Control of seed quality at the National Tree Seed Centre starts at the time of collection and is continuous through handling and storage of cones and fruit, and processing, testing, and storage of seed (Wang 1973). Seedlots in the seed bank are suitable for provenance research, for example, and in many cases were collected in collaboration with geneticists in the Canadian Forestry Service.

Using the seed list

Species included in the seed bank list and the corresponding number of seedlots for each are provided in the "Species listing" section.

Of the species represented in the bank, only those whose seed have demonstrated the ability to retain viability over a number of years of storage in the facilities available

proviennent d'échanges avec des organismes étrangers ou furent achetés de commerçants au Canada ou à l'extérieur.

Le contrôle de l'origine des semences est assuré en récoltant les semences uniquement dans des peuplements naturels dont la localisation est connue ou sur des arbres plantés d'origine aussi connue. Les méthodes de surveillance et d'identification de l'origine des semences ont été décrites par Wang (1973).

Sauf avis contraire, toutes les semences sont récoltées au cours d'années où la production est de moyenne à bonne, afin d'assurer la qualité et d'obtenir un échantillon représentatif de l'ensemble des gènes de la population.

Qualité des semences

Le contrôle de la qualité des semences permet de réduire au minimum les sources d'erreurs et d'augmenter d'autant la fiabilité des résultats de recherches. Au Centre national de semences forestières, ce contrôle s'exerce dès la récolte et se poursuit tout au long du processus de manutention, de traitement et d'entreposage des cônes, des semences ou des fruits (Wang, 1973). Les lots de la banque de semences constituent entre autre un matériel biologique de choix pour la recherche sur les provenances. Dans plusieurs cas ils ont été préparés en collaboration avec des généticiens du Service canadien des forêts.

Utilisation de la liste de semences

Les essences dont les semences sont en banque apparaissent dans la section "Liste des essences", avec chacune leur numéro correspondant.

Seules les espèces dont les semences ont démontré qu'elles pouvaient survivre un certain nombre d'années en entreposage, figurent

are listed. Seed of those species that are difficult to store (e.g., Acer saccharinum, Juglans nigra, and Quercus spp.) can be provided by special collection upon request. The list is arranged in alphabetical order by genus, species, and variety. Nomenclature is based on Native Trees of Canada (Hosie 1979) for native species and, as far as possible, the Manual of cultivated trees and shrubs hardy in North America (Rehder 1940) for exotic species.

To assist in the selection of seedlots, information on year of collection, location (or a brief description of source in the case of plantation or seed orchard stock), collection type (see legend for details), latitude, longitude, and elevation is given in the list. Information on 1000-seed weight and germination is presented when available.

Persons requesting seed for research purposes should specify species, seed bank number, and amount of seed required. Amount required in grams can be obtained using the formula:

$$q = \frac{(1000 \text{ seed weight}) \times (\# \text{ seedlings})}{10 (\% \text{ germination})}$$

where q is amount of seed in grams.

Alternative selections should be provided in the event that some seedlots are no longer available.

Acknowledgments

This publication was made possible with the assistance and cooperation

sur la liste. Dans le cas d'espèces dont les semences sont difficiles à entreposer (par ex. Acer saccharinum, Juglans nigra et Quercus spp.) une récolte spéciale pourra être faite sur demande. Les semences sont d'abord classées par ordre alphabétique selon le genre, l'espèce et la variété. La nomenclature adoptée est celle des Arbres indigènes du Canada (Hosie, 1980) en ce qui concerne les espèces indigènes et, dans la mesure du possible, celle du Manual of cultivated trees and shrubs hardy in North America (Rehder, 1940) pour les espèces exotiques.

Afin de faciliter le choix des lots de semences, la liste indique l'année et le lieu de la récolte (ou une brève description de l'origine des graines si elles proviennent d'une plantation ou d'un verger à graines), le type de récolte (voir la légende de la liste de semences) ainsi que sa latitude, sa longitude et son altitude. Lorsque c'est possible, le poids de 1000 graines et le taux de germination y sont indiqués.

Ceux qui demandent des semences pour la recherche doivent préciser l'essence avec son numéro en banque et la quantité. On peut calculer la quantité nécessaire en grammes à l'aide de la formule suivante:

$$q = \frac{(\text{masse de 1000 semences}) \times (\text{n}^{\text{bre}} \text{ de semis})}{10 (\% \text{ de germination})}$$

où q représente la quantité de semences en grammes.

On devrait spécifier d'autres choix au cas où certains lots seraient épuisés.

Remerciements

Cette publication a été rendue possible grâce à la coopération et

of the following staff of the Seed Bank and Services Project: Mr. E.L. Gilchrist, technician in charge of seed collection and processing; Mrs. B. Kelley, technician responsible for seed testing.

l'aide des employés suivants de la Banque de semences et des Services aux clients: M. E.L. Gilchrist, technicien chargé de récolter et traiter les semences; et Mme B. Kelley, technicienne chargée des tests de semences.

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Glossary/Glossaire

blue needles bog	aiguilles bleues marais
clay	argile
exotic	exotique
fair growth fair site first from	croissance moyenne site moyen premier d'après
good site quality gravel	bonne qualité stationnelle gravier
kiln	séché au four
large zone loam/loamy soil	vaste zone terreau
mature stand	peuplement à maturité
no kiln	non pas séché au four
old & new cones	cônes arrivés à maturité & jeunes cônes
on steep hill	situé sur une pente raide
peat poor site possible hybrid	tourbe site pauvre peut-être un hybride
recd from rocky rodent damage	obtenu de rocheux endommagement dû aux rongeurs
sandy second silt 30% slope soc superior xmas tree	sablonneux deuxième limon 30 % pente verger à graines meilleur arbre de Noël
1st coll	1 ^{re} récolte
third trees	troisième arbres

very blue colour

couleur bleu

wet site

site humide

weevil resist

résistant aux charançons

y/yrs

an(s)

Species listing/Liste des essences

SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCES	NUMBER OF SEEDLOTS PER SPECIES	NUMBER DE LOTS DE SEMENCES PAR ESSENCE
ABIES ALBA (European silver fir)	2	2
ABIES AMABILIS Cambialis (Pacific silver) fir	1	1
ABIES BALSAMEA (balsam fir)	25	25
ABIES BALSAMEA var. PHANEROLEPIS	1	1
ABIES CONCOLOR (white (Colorado) fir)	1	1
ABIES GRANDIS (grand fir)	1	1
ABIES LASIDCARPA (alpine fir)	6	6
ABIES NEPHROLEPIS	1	1
ACER PENNSYLVANICUM (striped maple; moosewood)	1	1
ACER RUBRUM (red (soft) maple)	24	24
ACER SACCHARUM (sugar (hard) maple)	3	3
ACER SPICATUM (mountain maple)	1	1
ALNUS CORDATA (Italian alder)	2	2
ALNUS CRISPA (green alder)	129	129
ALNUS GLUTINOSA (black alder)	8	8
ALNUS HIRSUTA	1	1
ALNUS INCANA (grey (European) alder)	4	4
ALNUS NEPALENSIS	1	1
ALNUS RUBRA (red (Oregon) alder)	61	61
ALNUS RUOSA (speckled alder)	160	160
ALNUS SINUATA (sitka alder)	119	119
ALNUS TENUIFOLIA (mountain alder)	24	24
BETULA ALLEGHANIENSIS (yellow birch)	1	1
BETULA OCCIDENTALIS (water (black) birch)	12	12
BETULA PAPIRIFERA (white (paper) birch)	13	13
BETULA PENDULA (silver (weeping) birch)	2	2
BETULA PLATYPHYLLA	6	6
BETULA PUBESCENS (downy birch)	1	1
BETULA VERRUCOSA (European white birch)	1	1
CARPINUS CAROLINIANA (blue-beech, hornbeam)	1	1
CATALPA SPECIOSA (catalpa)	1	1
FAGUS GRANDIFOLIA (American beech)	10	10
FRAXINUS AMERICANA (white ash)	1	1
FRAXINUS CHINENSIS	36	36
FRAXINUS PENNSYLVANICA (red ash)	7	7
LARIX DECIDUA (European larch)	4	4
LARIX Gmelini (Dahurian larch)	2	2
LARIX Gmelini var. OLGENSIS	20	20
LARIX LARICINA (tamarack; eastern larch)	1	1
LARIX OCCIDENTALIS (western larch)	1	1
LARIX OLGENSIS	1	1
LARIX SIBIRICA (Siberian larch)	1	1
PAULOWNIA FARGESII	1	1
PICEA ABIES (Norway spruce)	29	29
PICEA ENGELMANNII (Engelmann spruce)	3	3
PICEA GLAUCA (white spruce)	742	742
PICEA GLEHNII (Sakhalin spruce)	1	1
PICEA JEZOENSIS var. MICROSPERMA	1	1
PICEA KORAIENSIS	3	3
PICEA KOYAMAII (Koyama spruce)	1	1
PICEA MARIANA (black spruce)	40	40
PICEA PUNGENS var. GLAUCA (Colorado blue spruce)	1	1
PICEA RUBENS (red spruce)	24	24

SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCES	NUMBER OF SEEDLOTS PER SPECIES	NOMBRE DE LOTS DE SEMENCES PAR ESSENCE
PICEA SCHRENKIANA (Schrenk's spruce)	2	2
PICEA SITCHENSIS (sitka spruce)	23	23
PICEA WILSONII	2	2
PINUS BANKSIANA (jack pine)	74	74
PINUS CARIBAEA var. CARIBAEA	2	2
PINUS CARIBAEA var. HONDURENSIS	1	1
PINUS CONTORTA var. CONTORTA (shore pine)	3	3
PINUS CONTORTA var. LATIFOLIA (lodgepole pine)	74	74
PINUS CONTORTA var. MURRAYANA	1	1
PINUS DENSIFLORA (Japanese red pine)	1	1
PINUS KESIYA	1	1
PINUS KORAIENSIS (Korean pine)	1	1
PINUS MONTICOLA (western white (silver) pine)	3	3
PINUS NIGRA var. KOEKELARE	1	1
PINUS OCCARPA	3	3
PINUS PONDEROSA (ponderosa (western yellow) pine)	4	4
PINUS RESINOSA (red (Norway) pine)	48	48
PINUS RIGIDA (pitch pine)	1	1
PINUS STROBIFORMIS (southwestern white pine)	1	1
PINUS STROBUS (eastern white (Weymouth) pine)	118	118
PINUS SYLVESTRIS (Scotch (Scots) pine)	37	37
PINUS SYLVESTRIS var. MONGOLICA	3	3
PINUS SYLVESTRIS var. RICENSIS	1	1
PINUS THUNBERGII (Japanese black pine)	2	2
PINUS WALLICHIANA (Himalayan (Bhutan) pine)	1	1
PLADYCLADUS ORIENTALIS	1	1
POPULUS GRANDIDENTATA (largetooth aspen)	5	5
POPULUS TREMULOIDES (trembling aspen)	5	5
PSEUDOTSUGA MENZIESII (douglas-fir)	17	17
PSEUDOTSUGA MENZIESII var. GLAUCA (interior douglas-fir)	2	2
ROBINIA PSEUDACACIA (black locust)	2	2
SORBUS AMERICANA (American mountain ash)	1	1
THUJA OCCIDENTALIS (eastern white cedar)	2	2
THUJA PLICATA (western red cedar)	4	4
TSUGA CANADENSIS (eastern hemlock)	3	3
TSUGA MERTENSIANA (mountain hemlock)	2	2
ULMUS AMERICANA (white (American) elm)	3	3
ULMUS GLABRA (Scotch elm)	1	1
ULMUS LAEVIS (European white elm)	1	1

TOTAL NUMBER OF SEEDLOTS IN SEEDBANK
 NOMBRE TOTAL DE LOTS DE SEMENCES DANS LA BANQUE

2031

LEGEND FOR PNFI SEED LIST
LÉGENDE POUR LA LISTE DE SEMENCES DE L'IFNP

<u>Column Name</u> <u>Nom de la colonne</u>	<u>Meaning</u> <u>Signification</u>
SEED BANK NUMBER	<ul style="list-style-type: none">. Seed bank number assigned to an individual seedlot by the National Tree Seed Centre. Numéro assigné à un lot de semences en banque par le Centre national de semences forestières
NURSERY NUMBER	<ul style="list-style-type: none">. Seedlot number in seed index system maintained by Tree Breeding group at PNFI. Numéro assigné à un lot de semences dans le système d'indexation géré par le groupe de reproduction des arbres de l'IFNP
YEAR COLL.	<ul style="list-style-type: none">. Year of collection. Année de la récolte
PROVENANCE	<ul style="list-style-type: none">. Usually the name of the nearest identifiable geographic location to a collection site. Habituellement, le nom de l'endroit géographique identifiable situé le plus près du lieu de la récolte
PROV	<ul style="list-style-type: none">. Canadian province or American state (consult Appendix A for full name). Province canadienne ou État américain (consulter l'annexe A pour le nom complet)
CTRY	<ul style="list-style-type: none">. Official country code (see Appendix B). Code officiel du pays (voir l'annexe B)
LAT	<ul style="list-style-type: none">. Latitude of collection in degrees and minutes. Latitude du lieu de la récolte en degrés et minutes
LONG	<ul style="list-style-type: none">. Longitude of collection in degrees and minutes. Longitude du lieu de la récolte en degrés et minutes
ELEV	<ul style="list-style-type: none">. Elevation of collection in metres. Altitude du lieu de la récolte en mètres
COLL TYPE	<ul style="list-style-type: none">. Collection type: 'S' refers to collection from single tree; 'B' indicates bulked or general collection from more than one tree, () gives number of trees from which bulked collection was made; 'CP' is a controlled pollination cross; 'SP' refers to self-pollination; 'SQ' indicates squirrel collection

- . Type de récolte: 'S' signifie la récolte sur un seul arbre; 'B' indique une récolte générale ou en grande quantité sur plus d'un arbre, () indique le nombre d'arbres sur lesquels on a récolté les semences; 'CP' signifie le croisement par pollinisation dirigée; 'SP' signifie l'autopollinisation; 'SQ' indique une récolte par des écureuils.

- 1000 SEED WEIGHT
 - . Average weight in grams of 1000 seeds.
 - . Poids moyen (en grammes) de 1000 semences

- YEAR TSTD
 - . Year of most recent germination test
 - . Année du test de germination le plus récent

- % GERM
 - . Result from most recent germination test; if blank, no germination information is available
 - . Résultat du plus récent test de germination; un espace inoccupé signifie que l'on ne dispose pas de renseignements sur la germination

- REMARKS
 - . 'ST...' identifies select tree from which collection was made
 - . 'ST...' identifie l'arbre sélectionné pour la récolte des semences
 - . 'V...' refers to PNFI clone number
 - . 'V...' renvoie au numéro de clone de l'IFNP

Seed list/Liste des semences

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (M)	COLL TYPE	SEED HEIGHT	YEAR	%	REMARKS
												TST	GERM	
(1 100) ABIES ALBA (European silver fir)														
1 100-000006 0		1983	SEFARDMER		FRA	48 04	6 53E		N/A	N/A	43.96	84	39 3	VIA VERSEPUY
1 100-0380643 0		1983	MAPPERIDE MOUNTAINS		FRA	45 00	3 30E		N/A	N/A	45.74	84	28 5	VIA VERSEPUY
(1 200) ABIES AMABILIS (Pacific silver fir)														
1 200-8370636 0		1983	TAYLOR RIVER		BC	CAN	49 19	129 28	250	E(10)	27.94	84	72 0	MATURE STAND
(1 300) ABIES BALSAEAE (balsam fir)														
1 300-6030290 0		1960	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	N/A	7.54	83	24 0	
1 300-6432380 0		1966	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	B	10.06	84	41 0	
1 300-7034170 0		1970	CRF ARBORETUM, OTTAWA		ONT	CAN	45 25	75 34	63	S	6.83	84	30 0	CRF. S. 0141, 11cm, 6m
1 300-7034180 0		1970	CRF ARBORETUM, OTTAWA		ONT	CAN	45 25	75 34	67	S	7.82	84	31 0	CRF. S. 0142, 14cm, 8m
1 300-7034190 0		1970	CRF ARBORETUM, OTTAWA		ONT	CAN	45 25	75 34	74	S	7.48	84	30 0	CRF. S. 0143, 14cm, 8m
1 300-7034220 0		1970	CRF ARBORETUM, OTTAWA		ONT	CAN	45 25	75 34	67	S	8.67	84	51 0	CRF. S. 0146, 12cm, 8m
1 300-7034236 0		1970	CRF ARBORETUM, OTTAWA		ONT	CAN	45 25	75 34	67	S	8.76	84	58 0	CRF. S. 0147, 13cm, 8m
1 300-7034240 0		1970	CRF ARBORETUM, OTTAWA		ONT	CAN	45 25	75 34	67	S	8.96	84	27 0	CRF. S. 0148, 12cm, 8m
1 300-7311360 0		1973	ACADIA FOR. EXP. STA.		NS	CAN	46 00	66 15	120	N/A	7.90	83	45 8	
1 300-7432000 0		1974	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	9.09	83	59 5	13cm, 11m
1 300-7432010 0		1974	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	5.44	83	25 0	15cm, 13m
1 300-7432030 0		1974	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	10.10	83	62 0	13cm, 11m
1 300-7432040 0		1974	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	9.74	83	44 2	19cm, 14m
1 300-7432060 0		1974	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	6.06	83	33 5	13cm, 10m
1 300-7432080 0		1974	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	8.00	83	78 5	10cm, 8m
1 300-7832260 0		1978	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	11.15	83	69 0	ST 3591
1 300-7832270 0		1978	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	10.22	83	81 0	ST 3592
1 300-7832280 0		1978	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	9.53	83	43 0	ST 3593
1 300-7832290 0		1978	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	10.67	83	43 0	ST 3594
1 300-7832300 0		1978	PETAJAWA NAT.	FOR	ONT	CAN	45 58	77 24	160	S	6.06	83	31 5	ST 3594
1 300-7931160 0		1979	PETAJAWA NAT.	FOR	ONT	CAN	45 59	77 28	180	S	9.86	83	36 5	
1 300-7931180 0		1979	PETAJAWA NAT.	FOR	ONT	CAN	45 59	77 28	180	S	9.72	83	55 7	
1 300-7931190 0		1979	PETAJAWA NAT.	FOR	ONT	CAN	45 59	77 28	180	S	9.74	83	59 2	
1 300-7931200 0		1979	PETAJAWA NAT.	FOR	ONT	CAN	45 59	77 28	180	S	10.18	83	25 0	
1 300-8200572 0		1982	CORNACK		NFLD	CAN	49 24	57 18	90	B	11.74	89	91 0	
(1 350) ABIES BALSAEAE var PHANEROLEPIS														
1 350-7003740 0		1970	GRAND FALLS		NFLD	CAN	48 55	55 51	110	B(2)	8.83	83	47 5	15-25cm, 9-11m, 25y
(1 400) ABIES CONCOLOR (White (Colorado) fir)														
1 400-8480010 0		1984	MESA ALTA		NM	USA	35 30	106 00		N/A	43.24	84	55 0	VERY BLUE COLOUR
(1 500) ABIES GRANDIS (grand fir)														
1 500-8470994 0		1984	IRON RIVER, VANCOUVER IS.		BC	CAN	49 45	125 00	25	E(50)	20.20	85	61 7	
(1 600) ABIES LASIOCARPA (alpine fir)														
1 600-7473110 0		1974	MONASHEE MOUNTAINS		BC	CAN	51 05	118 35	1630	B	9.06	83	52 3	
1 600-7473120 0		1974	SHUSKAP LAKE		BC	CAN	50 58	119 30	1370	B	10.78	83	54 0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROVENANCE	PRDV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
1.500-7473870 0		1974	MANNING PROV. PARK	BC	CAN	49 05	120 45	1220	S	7.36	83	84.5	26cm, 9m
1.500-7477310 0		1974	MCGILLWRAY LAKE	BC	CAN	50 51	119 51	1448	B	10.00	83	37.0	
1.500-7971830 0		1979	HUDSONS BAY MOUNTAIN	BC	CAN	54 45	127 15	1130	B(6)	10.35	83	44.5	10-25cm, 6-15m
1.500-8270557 0		1982	DUCK LAKE	BC	CAN	49 07	124 39	1130	B(10)	13.74	85	60.5	23cm, 7-15m, 40-50y
(1 650) ABIES NEPHROLEPIS													
1.550-8280662 0		1983	ICHUN, HEILUNGKIANG PROV	CHN		47 00	129 00E	250	N/A	8.26	85	46.5	
(2 450) ACER PENSYLVANICUM (striped maple, moosewood)													
2.450-8430047 0		1984	DENBIGH	ONT	CAN	45 09	77 10	300	B(2)	43.26	85	54.5	5-10cm, 3-6m
(2 600) ACER RUBRUM (red (soft) maple)													
2.600-7530080 0	10162 00	1975	CHALK RIVER	ONT	CAN	44 05	77 23	150	S	13.04	84	23.0	19cm, 11m
2.600-7530180 0		1975	KENORA	ONT	CAN	49 38	93 50	380	B(10)	9.41	85	38.0	5-10cm
2.600-7530190 0		1975	FORT FRANCES	ONT	CAN	48 53	93 00	365	B(11)	10.47	85	61.5	11-20m, 55-100y
2.600-7630170 0		1976	PETAHAWA NAT. FOR	INST	CAN	45 57	77 24	160	S	12.85	85	55.5	
2.600-7630190 0		1976	CHALK RIVER	ONT	CAN	46 03	77 23	150	S	9.43	84	82.0	
2.600-7720410 0		1977	LAUREAT	QUE	CAN	45 56	76 22	240	B	12.07	84	27.0	
2.600-7730040 0		1977	MALAHIDE TOWNSHIP	ONT	CAN	42 44	81 00	230	S	12.96	84	25.5	30cm, 20m
2.600-7930080 0		1979	PETAHAWA NAT. FOR	INST	CAN	45 59	77 26	180	S	14.24	80	83.0	ST. 3739, 7cm, 7m
2.600-7930100 0		1979	PETAHAWA NAT. FOR	INST	CAN	45 59	77 25	170	S	19.78	84	68.0	8m
2.600-7930110 0		1979	PETAHAWA NAT. FOR	INST	CAN	45 59	77 25	170	S	14.13	84	73.0	12m
2.600-8230070 0		1982	PETAHAWA NAT. FOR	INST	CAN	45 59	77 24	150	B	11.54	82	59.5	RODENT DAMAGE
2.600-8230080 0		1982	PETAHAWA NAT. FOR	INST	CAN	46 00	77 25	160	B	10.35	82	83.5	RODENT DAMAGE
2.600-8230090 0		1982	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	150	B	10.42	82	67.0	RODENT DAMAGE
2.600-8230100 0		1982	PETAHAWA NAT. FOR	INST	CAN	46 00	77 25	150	S	13.23	84	63.0	RODENT DAMAGE
2.600-8430013 0		1984	HWY 17, P. N. F. I	ONT	CAN	46 00	77 25	150	S	8.43	84	33.0	12cm, 12m
2.600-8430014 0		1984	HWY 17, P. N. F. I	ONT	CAN	46 00	77 24	150	S	17.90	84	33.0	11cm, 7.5m
2.600-8430015 0		1984	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	150	B	9cm, 7.5m			
2.600-8430016 0		1984	BASELINE ROAD, P. N. F. I	ONT	CAN	45 59	77 25	180	S	19.20	84	33.0	9cm, 6m
2.600-8430017 0		1984	THOMAS'S FIELD, P. N. F. I	ONT	CAN	45 59	77 27	190	S	13.50	84	57.5	39cm, 7.5m
2.600-8430018 0		1984	THOMAS'S FIELD, P. N. F. I	ONT	CAN	45 59	77 27	190	S	12.34	84	38.0	11cm, 6.5m
2.600-8430019 0		1984	PETAHAWA NAT. FOR	INST.	CAN	45 59	77 24	150	S	16.76	84	37.0	14cm, 6m
2.600-8430021 0		1984	FIRE TRAIL A, A. E. C. L.	ONT	CAN	46 04	77 25		B	19.32	84	36.0	
2.600-8430022 0		1984	FIRE TRAIL A, A. E. C. L.	ONT	CAN	46 04	77 26		S	12.24	84	48.0	10cm, 6m
2.600-8430024 0		1984	LOON LAKE, GRAVENHURST	ONT	CAN	44 55	79 25	215	S	17.60	84	45.5	6cm, 5m
(2 800) ACER SACCHARUM (sugar (hard) maple)													
2.800-8350022 0		1983	PELHAM TWP. FORTMILL	ONT	CAN	43 02	79 17	190	B(3)	84.73	84	67.0	45cm, 14-16m
2.800-8430050 0		1984	DENBIGH	ONT	CAN	45 09	77 10	300	S	102.12	84	68.0	40cm, 20m, 110y
2.800-8430054 0		1984	ALONGQUIN PARK	ONT	CAN	45 17	78 11	490	B(5)	81.72	84	56.0	35-55cm, 14-18m
(2 900) ACER SPICATUM (mountain maple)													
2.900-8430043 0		1984	CHARLESTON LAKE	ONT	CAN	44 31	76 01	120	B(2)	17.21	85	91.0	2-3cm, 3m
(4 050) ALNUS CORDATA (Italian alder)													
4.050-8082030 0		1980	NAFOLI, CAMPANIA	ITA		40 39	14 30E	700	N/A	2.51	84	68.0	VIA DR STEENACKERS
4.050-8181340 0		1981	GERAARDSBERGEN	BEL		50 47	3 53E		S	3.55	84	86.0	VIA DR STEENACKERS

SEED LIST/LISTE DES SEMENCES

1000 SEED YEAR %

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	WEIGHT	TSTD	GERM	REMARKS
(4.100) ALNUS CRISPA (green alder)													
4 100-7931400 0	10978 00	1979	NIMITZ TOWNSHIP	DNT	CAN	47 38	83 15	460	B	28	84	82 5	2cm, 3m, 5y
4 100-8310598 0		1983	TANTALLON	NS	CAN	44 42	63 52	99	S	20	84	21 0	1cm, 3m, 7y
4 100-8310599 0		1983	TANTALLON	NS	CAN	44 42	63 52	99	S	29	85	49 0	2cm, 3m, 8y
4 100-8310560 0		1983	TANTALLON	NS	CAN	44 42	63 52	99	S	29	84	23 0	1-3cm, 2-3m
4 100-8310562 0		1983	YARMOUTH	NS	CAN	43 55	66 55	30	B(25)	27	85	21 0	2cm, 3m, 4y
4 100-8310564 0		1983	YARMOUTH	NS	CAN	43 55	66 55	30	B	25	84	44 5	1cm, 2m, 4y
4 100-8310565 0		1983	YARMOUTH	NS	CAN	43 55	66 55	30	B	34	84	51 5	1-2cm, 2-4m
4 100-8320554 0		1983	MISSISSIPPI RIVER	QUE	CAN	48 49	64 52	76	B(35)	27	84	42 5	0.9-2cm, 2-3m
4 100-8320555 0		1983	MISSISSIPPI RIVER	QUE	CAN	48 49	64 53	130	B(25)	25	84	32 5	3-7cm, 1-3m
4 100-8360544 0		1983	EDSON	ALTA	CAN	53 30	116 30	8	B	25	84	32 5	2-3cm, 1-2m
4 100-8360546 0		1983	OBED SUMMIT	ALTA	CAN	53 30	117 10	8	B	34	84	50 0	4.9-5cm, 2-3m
4 100-8360547 0		1983	FORT ASSINIBOINE	ALTA	CAN	54 30	114 50	8	B	35	84	69 0	2-3cm, 1-2m
4 100-8400857 0		1984	GRAND FALLS	NFLD	CAN	49 00	55 35	122	B(Δ)	37	85	81 5	4.9-5cm, 2-3m
4 100-8400858 0		1984	CARMANVILLE	NFLD	CAN	49 25	54 20	15	B(7)	40	85	99 0	9-22cm, 1.9-3.5m
4 100-8400859 0		1984	STEPHENVILLE	NFLD	CAN	48 18	58 36	61	S	51	85	97 5	10-19cm, 2.1-3m, 5y
4 100-8400860 0		1984	STEPHENVILLE	NFLD	CAN	48 12	58 36	61	B(8)	46	85	69 0	8-2.7cm, 2.6-3.7m
4 100-8410740 0		1984	MERIGOMISH	NS	CAN	45 35	62 27	76	S	33	85	72 5	1.5-2.5cm, 2.6-3.2m
4 100-8410741 0		1984	MERIGOMISH	NS	CAN	45 35	62 27	76	S	29	85	75 0	6-1.9cm, 1.8-3.1m
4 100-8410742 0		1984	MERIGOMISH	NS	CAN	45 35	62 27	76	B(3)	36	85	83 5	1.5-2.5cm, 2.2-3.6m
4 100-8410754 0		1984	AMHERST	NB	CAN	45 53	64 16	30	S	37	85	96 0	5.1cm, 4.2m, 8y
4 100-8410755 0		1984	AMHERST	NB	CAN	45 53	64 16	30	S	42	85	83 0	3.9cm, 4.10m, 9y
4 100-8410756 0		1984	AMHERST	NB	CAN	45 53	64 16	30	S	36	85	95 5	4.3cm, 4.0m, 9y
4 100-8410757 0		1984	AMHERST	NB	CAN	45 53	64 16	30	S	41	85	86 5	3.8cm, 3.8m, 8y
4 100-8410758 0		1984	AMHERST	NB	CAN	45 53	64 16	30	S	38	85	100 0	4.1cm, 4.2m, 9y
4 100-8420609 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	43	85	88 0	3.8cm, 4m
4 100-8420610 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	34	85	81 5	1.4cm, 2.9m, 7y
4 100-8420611 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	29	85	54 0	1.0cm, 3.0m, 7y
4 100-8420612 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	37	85	72 5	1.2cm, 2.5m, 6y
4 100-8420613 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	26	85	23 5	1.3cm, 2.6m, 7y
4 100-8420614 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	29	85	50 5	1.5cm, 2.95m, 7y
4 100-8420615 0		1984	BERGIMIS	QUE	CAN	49 15	69 32	274	S	32	85	63 5	1.4cm, 2.7m, 6y
4 100-8420625 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	34	85	73 5	1.3cm, 2.85m, 7y
4 100-8420626 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	30	85	69 0	1.2cm, 2.0m, 5y
4 100-8420627 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	35	85	86 0	1.0cm, 2.1m, 5y
4 100-8420628 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	53	85	88 0	1.0cm, 2.0m, 5y
4 100-8420629 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	46	85	83 5	1.0cm, 2.05m, 5y
4 100-8420630 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	26	85	80 5	1.3cm, 1.9m, 5y
4 100-8420631 0		1984	REMIGNY	QUE	CAN	47 47	79 15	274	S	36	85	89 5	1.3cm, 2.25m, 6y
4 100-8420635 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	32	85	91 0	1.2cm, 2.05m, 5y
4 100-8420660 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	57	85	100 0	4.0cm, 4.7m, 9y
4 100-8420661 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	65	85	98 0	5.0cm, 4.0m, 10y
4 100-8420662 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	47	85	97 0	3.0cm, 3.2m, 9y
4 100-8420663 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	71	85	92 5	3.5cm, 4.8m, 10y
4 100-8420664 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	62	85	98 5	3.3cm, 4.4m, 9y
4 100-8420665 0		1984	CHAPAIS	QUE	CAN	49 22	74 02	411	S	48	85	93 5	3.4cm, 4.3m, 10y
4 100-8420666 0		1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S				
4 100-8420667 0		1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S				
4 100-8420668 0		1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S				
4 100-8420669 0		1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S				
4 100-8420670 0		1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S				
4 100-8420671 0		1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S				

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	GERM %	REMARKS
4 100-8420672 0	1984	GROSSE ROCHE	QUE	CAN	48 59	67 01	183	S	5	47	85	96.0	3 4cm, 4 3m, 9y
4 100-8420680 0	1984	GUEVILLON	QUE	CAN	49 07	77 00	76	S	5	34	85	99.5	1 3cm, 2 7m, 8y
4 100-8420681 0	1984	GUEVILLON	QUE	CAN	49 07	77 00	76	S	5	33	85	99.5	1 3cm, 2 5m, 7y
4 100-8420682 0	1984	GUEVILLON	QUE	CAN	49 07	77 00	76	S	5	39	85	100.0	1 9cm, 2 7m, 8y
4 100-8420683 0	1984	GUEVILLON	QUE	CAN	49 07	77 00	76	S	5	33	85	96.0	1 3cm, 2 55m, 8y
4 100-8420684 0	1984	GUEVILLON	QUE	CAN	49 07	77 00	76	S	5	32	85	96.0	1 3cm, 2 35m, 8y
4 100-8420685 0	1984	GUEVILLON	QUE	CAN	49 07	77 00	76	S	5	31	85	94.5	1 1-1 2cm, 7-8y
4 100-8420693 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	34	85	98.0	1 1cm, 2 0m, 6y
4 100-8420694 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	38	85	99.5	1 2cm, 2 25m, 6y
4 100-8420695 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	33	85	97.0	1 3cm, 2 1m, 6y
4 100-8420696 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	39	85	97.0	1 0cm, 2 1m, 5y
4 100-8420697 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	40	85	97.0	1 4cm, 2 5m, 6y
4 100-8420698 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	38	85	96.5	1 3cm, 2 15m, 6y
4 100-8420699 0	1984	VERS CHIBOUGANEAU	QUE	CAN	48 40	72 35	183	S	5	34	85	94.0	1 2cm, 2 25m, 6y
4 100-8420703 0	1984	MANIC	QUE	CAN	49 52	68 44	335	S	5	43	85	100.0	3 2cm, 3 5m, 9y
4 100-8420704 0	1984	MANIC	QUE	CAN	49 52	68 44	335	S	5	37	85	95.0	2 9cm, 3 1m, 9y
4 100-8420705 0	1984	MANIC	QUE	CAN	49 52	68 44	335	S	5	34	85	89.0	3 0cm, 2 9m, 8y
4 100-8420706 0	1984	MANIC	QUE	CAN	49 52	68 44	335	S	5	38	85	95.0	2 6cm, 2 95m, 8y
4 100-8420707 0	1984	MANIC	QUE	CAN	49 52	68 44	335	S	5	36	85	98.5	2 9cm, 3 2m, 10y
4 100-8420708 0	1984	MANIC	QUE	CAN	49 52	68 44	335	S	5	39	85	96.5	3 5-3 7cm, 10-11y
4 100-8420709 0	1984	NEW RICHMOND	QUE	CAN	48 25	65 39	229	S	5	64	85	95.0	1 3cm, 2 0m, 3y
4 100-8420710 0	1984	NEW RICHMOND	QUE	CAN	48 25	65 39	229	S	5	65	85	98.0	1 3cm, 1 7m, 3y
4 100-8420711 0	1984	NEW RICHMOND	QUE	CAN	48 25	65 39	229	S	5	57	85	98.5	1 4cm, 1 6m, 3y
4 100-8420712 0	1984	NEW RICHMOND	QUE	CAN	48 25	65 39	229	S	5	54	85	96.0	1 3cm, 1 6m, 3y
4 100-8420713 0	1984	NEW RICHMOND	QUE	CAN	48 25	65 39	229	S	5	56	85	91.5	1 4cm, 1 6m, 3y
4 100-8420714 0	1984	NEW RICHMOND	QUE	CAN	48 25	65 39	229	S	5	73	85	66.0	1 5-2 3cm, 4-5y
4 100-8420722 0	1984	VERENDRY	QUE	CAN	47 30	76 43	366	S	5	37	85	77.5	1 7cm, 3m, 7y
4 100-8420723 0	1984	VERENDRY	QUE	CAN	47 30	76 43	366	S	5	31	85	57.0	1 8cm, 3m, 7y
4 100-8420724 0	1984	VERENDRY	QUE	CAN	47 30	76 43	366	S	5	37	85	97.5	2 3cm, 3 7m, 9y
4 100-8420725 0	1984	VERENDRY	QUE	CAN	47 30	76 43	366	S	5	34	85	66.0	1 9-2 1cm, 7-8y
4 100-8420727 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	35	85	88.5	2 1cm, 2 6m, 7y
4 100-8420728 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	34	85	80.5	1 7cm, 2 1m, 7y
4 100-8420729 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	45	85	87.0	1 5cm, 2m, 7y
4 100-8420730 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	38	85	88.0	1 9cm, 2 4m, 7y
4 100-8420731 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	39	85	91.5	2cm, 2 5m, 7y
4 100-8420732 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	32	85	96.5	1 8cm, 2 4m, 8y
4 100-8420733 0	1984	ST MAURICE	QUE	CAN	47 14	72 51	152	S	5	37	85	92.0	1 8cm, 2 4m, 7y
4 100-8430739 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	27	85	32.0	7cm, 1 6m, 3y
4 100-8430760 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	26	85	34.0	6cm, 2 2m, 4y
4 100-8430761 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	25	85	48.0	5cm, 1 6m, 4y
4 100-8430762 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	33	85	97.0	6cm, 2 2m, 4y
4 100-8430763 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	28	85	63.0	9cm, 2 5m, 5y
4 100-8430764 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	33	85	53.5	9cm, 2 3m, 5y
4 100-8430765 0	1984	FRAZER LAKE	ONT	CAN	49 12	88 12	290	S	5	30	85	48.0	9cm, 2 2m, 5y
4 100-8430766 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	35	85	93.0	1 1cm, 2m, 7y
4 100-8430767 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	29	85	74.0	1 6cm, 2 5m, 9y
4 100-8430768 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	32	85	97.0	1 2cm, 2m, 7y
4 100-8430769 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	38	85	97.0	1 1cm, 1 7m, 6y
4 100-8430770 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	36	85	97.5	9cm, 2m, 7y
4 100-8430771 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	39	85	90.5	1 2cm, 2 5m, 8y
4 100-8430772 0	1984	PAWASHKAN LAKE	ONT	CAN	49 14	90 37	503	S	5	31	85	93.5	1cm, 2 2m, 8y
4 100-8430773 0	1984	NAPAWAMINIKAN RIVER	ONT	CAN	49 46	87 45	350	S	5	31	85	100.0	1 5cm, 2 5m, 10y
4 100-8430774 0	1984	NAPAWAMINIKAN RIVER	ONT	CAN	49 46	87 45	350	S	5	25	85	100.0	1 2cm, 2 3m, 11y
4 100-8430775 0	1984	NAPAWAMINIKAN RIVER	ONT	CAN	49 46	87 45	350	S	5	30	85	100.0	1 5cm, 3 4m, 12y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4 100-8430776.0	1984	NAMEWAMINIKAN RIVER	DNT	CAN	49.46	87.45	350	S	29	85	97.0	1.2cm, 2.2m, 10y	
4 100-8430777.0	1984	NAMEWAMINIKAN RIVER	DNT	CAN	49.46	87.45	350	S	30	85	91.0	1.7cm, 2.6m, 12y	
4 100-8430778.0	1984	NAMEWAMINIKAN RIVER	DNT	CAN	49.46	87.45	350	S	33	85	90.5	1.4cm, 2.1m, 11y	
4 100-8430779.0	1984	NAMEWAMINIKAN RIVER	DNT	CAN	49.46	87.45	350	S	36	84	96.0	2cm, 3.2m, 12y	
4 100-8430780.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	30	85	95.0	1.1cm, 2m, 11y	
4 100-8430781.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	34	85	93.0	1cm, 2.1m, 10y	
4 100-8430782.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	28	85	84.5	2cm, 2.6m, 9y	
4 100-8430783.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	33	85	90.5	1.7cm, 2m, 9y	
4 100-8430784.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	40	85	93.5	1.9cm, 2.4m, 10y	
4 100-8430785.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	37	85	96.5	1.4cm, 2.8m, 10y	
4 100-8430786.0	1984	PIC RIVER	DNT	CAN	49.22	85.59	350	S	26	85	88.5	1.3cm, 2m, 10y	
4 100-8430787.0	1984	RAITH	DNT	CAN	48.55	89.60	488	S	22	85	22.0	1.7cm, 2.6m, 8y	
4 100-8430788.0	1984	RAITH	DNT	CAN	48.55	89.60	488	S	20	85	55.5	1.2cm, 2.2m, 6y	
4 100-8430789.0	1984	RAITH	DNT	CAN	48.55	89.60	488	S	19	85	26.0	1cm, 2.6m, 6y	
4 100-8430790.0	1984	RAITH	DNT	CAN	48.55	89.60	488	S	29	85	92.5	1cm, 2.3m, 7y	
4 100-8430791.0	1984	RAITH	DNT	CAN	48.55	89.60	488	S	29	85	61.5	1.1-2cm, 6-9y	
4 100-8440845.0	1984	BOGOY CREEK	MAN	CAN	51.32	100.56	686	S	30	85	70.0		
4 100-8440846.0	1984	BOGOY CREEK	MAN	CAN	51.32	100.56	686	B(4)	32	85	73.5		
4 100-8440847.0	1984	BOGOY CREEK	MAN	CAN	51.32	100.56	686	B(7)	31	85	77.5		
4 100-8450515.0	1984	CANDLE LAKE	SASK	CAN	53.53	105.24	495	S	15	85	22.0	2.5-7.6cm, 91-2.4m	
4 100-8450532.0	1984	MCPHEE LAKE	SASK	CAN	53.52	105.98	549	S	21	85	32.0	1.8cm, 2.7m, 6y	
4 100-8450533.0	1984	MCPHEE LAKE	SASK	CAN	53.52	105.98	549	S	18	85	21.5	1.8cm, 3.1m, 7y	
4 100-8451475.0	1984	FORT A LA CORNE	SASK	CAN	53.24	104.42	450	B(3)	34	85	52.5	1.7cm, 2.4m, 5y	
4 100-8451477.0	1984	CANDLE LAKE	SASK	CAN	53.53	105.24	495	B(4)	21	85	45.0		
(4 300) ALNUS GLUTINOSA (black alder)													
4 300-7789210.0	1977	MAPBURG	DEU		50.40	9.10E	300	B	1.41	84	41.0		VIA DR STEENACKERS
4 300-7984670.0	1979	ST. JULIEN EN BORN	FRA		44.04	1.13E	22	N/A	93	84	92.5		VIA DR STEENACKERS
4 300-7984680.0	1979	FRAMBOIS 4	FRA		48.32	6.32E	250	N/A	1.70	84	97.5		VIA DR STEENACKERS
4 300-8181210.0	1981	CHEMNIGUSKAYA OBLAST	SUN		51.30	31.30E		B	1.53	84	39.5		
4 300-8181370.0	1981	ZOERSEL 3	BEL		51.15	4.40E		B(10)	1.82	84	51.5		VIA DR STEENACKERS
4 300-8181390.0	1981	VJHESOTA VODA - 3	BRG		25.40	42.50E	400	N/A	1.40	84	73.0		VIA DR STEENACKERS
4 300-8480964.0	1984	BENDERKA FOR., LITHUANIA	SUN		54.21	23.24E	110	B(3)	1.56	85	87.0		22cm, 18m, 40y
4 300-8480965.0	1984	KAINAS LAGOON, LITHUANIA	SUN		55.28	24.02E	52	B(5)	1.25	85	76.0		24cm, 19m, 50y
(4 380) ALNUS HIREUTA													
4 380-8380672.0	1983	CHANG-WEI, SHANTUNG PROV.	CHN		36.00	120.00E	300	N/A	1.25	85	25.5		
(4 400) ALNUS INCANA [grey (European) alder]													
4 400-7931390.0	1979	LAKE DORE	DNT	CAN	45.37	77.07	175	B	78	84	75.0		
4 400-7983140.0	1979	TARTU, ESTONIA	SUN		58.24	26.43E	50	S	92	84	90.0		10m, 10y
4 400-7983150.0	1979	SURJU FOR DIST ESTONIA	SUN		58.19	24.40E	20	S	62	84	37.0		10m, 10y
4 400-8130170.0	1981	LAKE DORE	DNT	CAN	45.37	77.07	175	B(3)	85	84	21.0		
(4 560) ALNUS NEPALENSIS													
4 560-8380675.0	1983	KUN-MING, YUNNAN PROV.	CHN		25.01	102.41E	1800	N/A	40	85	57.0		
(4 600) ALNUS RUBRA [red (Oregon) alder]													
4 600-8071150.0	1980	BOTANICAL BAY, VANC IS BC	CAN		48.28	124.25	50	B	52	84	65.0		

SEED LIST/LISTE DES SEMENCES										1000			YEAR		REMARKS
SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	TSTD	% GERM			
4. 500-8071170. 0		1980	SHAWNIGAN-RENFREN	BC	CAN	49 25	124 15	500	B	54	84	75. 0	VANC. ISLAND		
4. 500-8071180. 0		1980	SHAWNIGAN, VANCOUVER IS	BC	CAN	48 36	123 40	190	B	62	84	68. 0			
4. 500-8081990. 0		1980	SAINPOINT	ID	USA	48 22	116 45	945	S	56	84	55. 0			
4. 500-8082000. 0		1980	FORKS	WASH	USA	48 03	124 36	50	S	32	84	27. 5	VIA DR STEENACKERS		
4. 500-8082010. 0		1980	WIND RIVER EXP. FOREST	WASH	USA	45 46	121 55	360	S	60	84	92. 0			
4. 500-8082020. 0		1980	FORT BRAGG	CAL	USA	39 44	123 03		S	42	84	36. 5	VIA DR STEENACKERS		
4. 500-8181230. 0		1981	ALBION	CAL	USA	39 15	123 45		B	42	84	27. 0	VIA DR STEENACKERS		
4. 500-8370232. 0		1983	SPRUSTON ROAD	BC	CAN	49 03	123 56	107	S	65	84	41. 5	45cm, 31m, 55y		
4. 500-8370233. 0		1983	SPRUSTON ROAD	BC	CAN	49 03	123 56	107	S	46	84	27. 5	28cm, 25m, 55y		
4. 500-8370235. 0		1983	SPRUSTON ROAD	BC	CAN	49 03	123 56	107	S	64	84	60. 0	29cm, 28m, 45y		
4. 500-8370245. 0		1983	HORNE LAKE	BC	CAN	49 21	124 43	122	S	54	84	24. 0	22cm, 17m, 26y		
4. 500-8370245. 0		1983	HORNE LAKE	BC	CAN	49 21	124 43	122	S	52	84	41. 5	18cm, 16m, 23y		
4. 500-8370251. 0		1983	HORNE LAKE	BC	CAN	49 21	124 43	122	S	48	84	22. 0	21cm, 17m, 24y		
4. 500-8370252. 0		1983	HORNE LAKE	BC	CAN	49 21	124 43	122	S	60	84	63. 0	21cm, 20m, 26y		
4. 500-8370254. 0		1983	HORNE LAKE	BC	CAN	49 21	124 43	122	S	51	84	94. 5	24cm, 19m, 27y		
4. 500-8370256. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	67	85	90. 0	23cm, 18m, 20y		
4. 500-8370257. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	59	85	49. 5	25cm, 18m, 20y		
4. 500-8370258. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	63	85	94. 0	25cm, 18m, 22y		
4. 500-8370259. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	63	85	75. 0	21cm, 17m, 23y		
4. 500-8370260. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	69	85	70. 0	23cm, 18m, 21y		
4. 500-8370261. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	45	85	65. 0	26cm, 19m, 19y		
4. 500-8370262. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	83	85	88. 0	28cm, 21m, 26y		
4. 500-8370263. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	80	85	90. 5	26cm, 18m, 23y		
4. 500-8370264. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	84	85	86. 5	26cm, 17m, 32y		
4. 500-8370265. 0		1983	SALMON RIVER	BC	CAN	50 12	125 45	304	S	65	85	100. 0	29cm, 15m, 27y		
4. 500-8470545. 0		1984	TERRACE	BC	CAN	54 40	126 41	305	S	32	85	26. 5	9. 5cm, 6m, 10y		
4. 500-8470546. 0		1984	TERRACE	BC	CAN	54 40	126 41	305	S	76	85	76. 0	8cm, 5m, 9y		
4. 500-8470549. 0		1984	TERRACE	BC	CAN	54 40	126 41	305	S	44	85	24. 5	11cm, 6. 5m, 10y		
4. 500-8470555. 0		1984	TERRACE	BC	CAN	54 40	126 41	305	S	71	85	60. 0	9cm, 6m, 9y		
4. 500-8470566. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	B	54	85	72. 0	15cm, 10m, 13y		
4. 500-8470567. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	81	85	78. 0	14cm, 11m, 12y		
4. 500-8470568. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	53	85	92. 0	12cm, 12m, 8y		
4. 500-8470569. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	47	85	37. 0	9cm, 8. 5m, 8y		
4. 500-8470570. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	46	85	47. 5	12cm, 9. 5m, 9y		
4. 500-8470571. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	47	85	81. 0	9cm, 10m, 9y		
4. 500-8470572. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	62	85	89. 5	20cm, 14. 5m, 20y		
4. 500-8470573. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	47	85	45. 0	15cm, 17. 9m, 19y		
4. 500-8470574. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	60	85	79. 0	19cm, 16. 5m, 14y		
4. 500-8470576. 0		1984	KITIMAT	BC	CAN	54 15	128 30	60	S	56	85	47. 5	19cm, 9. 5m, 12y		
4. 500-8470577. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	B	42	85	45. 0	19cm, 8m, 15y		
4. 500-8470578. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	S	58	85	70. 0	16m, 11m, 12y		
4. 500-8470579. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	S	54	85	74. 5	23cm, 13m, 15y		
4. 500-8470580. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	S	31	85	22. 0	18cm, 8m, 9y		
4. 500-8470581. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	B	38	85	72. 5	13cm, 12m, 15y		
4. 500-8470582. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	B	58	85	57. 5	17cm, 12m, 11y		
4. 500-8470583. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	B	49	85	44. 5	17cm, 13m, 12y		
4. 500-8470584. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	S	50	85	62. 5	14cm, 10. 5m, 10y		
4. 500-8470585. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	S	74	85	66. 0	23cm, 15m, 16y		
4. 500-8470586. 0		1984	PORT HARDY	BC	CAN	50 37	127 15	37	S	70	85	80. 0	19cm, 11m, 11y		
4. 500-8470599. 0		1984	PRINCE RUPERT	BC	CAN	54 16	130 16	46	S	59	85	70. 0	15cm, 10m, 13y		
4. 500-8470600. 0		1984	PRINCE RUPERT	BC	CAN	54 16	130 16	46	S	42	85	58. 0	18cm, 10m, 16y		
4. 500-8470601. 0		1984	PRINCE RUPERT	BC	CAN	54 16	130 16	46	S	47	85	50. 5	14cm, 7. 5m, 13y		
4. 500-8470602. 0		1984	PRINCE RUPERT	BC	CAN	54 16	130 16	46	S	57	85	59. 0	15cm, 8m, 16y		
4. 500-8470603. 0		1984	PRINCE RUPERT	BC	CAN	54 16	130 16	46	S	30	85	44. 5	20cm, 12m, 16y		

SEED LIST/LISTE DES SEMENCES

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SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	FRV	CTRY	LAT	LONG	ELEV (m)	ELEV COLL TYPE	SEED HEIGHT	YEAR TSTD	% GERM	REMARKS
4 500-8470605 0		1984	PRINCE RUPERT	BC	CAN	54 15	130 16	45	S	40	85	52 0	18cm, 12m, 15y
4 500-8470606 0		1984	PRINCE RUPERT	BC	CAN	54 15	130 16	46	S	36	85	22 0	11cm, 9m, 9y
4 500-8470607 0		1984	PRINCE RUPERT	BC	CAN	54 15	130 16	46	S	58	85	75 5	15cm, 13m, 13y
4 500-8470608 0		1984	PRINCE RUPERT	BC	CAN	54 16	130 16	46	S	47	85	58 5	18cm, 18m, 16y
4 500-8471456 0		1984	NINETEEN CREEK	BC	CAN	48 48	124 07	160	B(15)	42	85	34 0	
4 500-8471468 0		1984	TERRACE	BC	CAN	54 40	126 41	305	B(7)	64	85	57 0	
1 4 700) ALNUS RUSSICA (speckled alder)													
4 700-7735800 0		1977	NIPISSING TOWNSHIP	ONT	CAN	46 04	79 29	200	B(4)	83	79	26 0	
4 700-7981860 0		1979	PENDESLOT RIVER	ME	USA	45 00	69 00	40	B(20)	59	84	40 0	3-5m, 5-6y
4 700-8310202 0		1983	EMMORE	PEI	CAN	46 35	64 03	10	B(45)	63	84	22 5	2-5cm, 3-4m
4 700-8310203 0		1983	MILLVALE	PEI	CAN	46 24	63 24	70	B(30)	85	84	29 0	2-6cm, 3-5m
4 700-8310204 0		1983	VALLEYFIELD	PEI	CAN	46 08	62 43	45	B(25)	78	84	24 0	4-6cm, 3-5m
4 700-8310240 0		1983	SHEDIAC	NB	CAN	46 14	64 35	15	B(20)	65	84	23 0	2-5cm, 3-6m
4 700-8310351 0		1983	SHEDIAC	NB	CAN	46 14	64 35	15	S	70	84	38 5	3cm, 4m, 6y
4 700-8310552 0		1983	SHEDIAC	NB	CAN	46 14	64 35	15	S	65	84	30 0	4cm, 5m, 12y
4 700-8330180 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	B(10)	67	84	37 0	4-10cm, 3-5m
4 700-8330181 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	75	84	39 5	6cm, 4m
4 700-8330182 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	79	84	69 5	6cm, 4m
4 700-8330183 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	78	84	86 5	6cm, 4m
4 700-8330185 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	81	84	62 5	4cm, 4m
4 700-8330186 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	61	84	30 5	4cm, 3 5m
4 700-8330187 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	04	84	68 5	5cm, 4m
4 700-8330188 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	85	84	57 0	3cm, 4m
4 700-8330189 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	63	84	27 0	4cm, 3 5m
4 700-8330190 0		1983	HWY 17 NEAR PEMBROKE	ONT	CAN	45 50	77 15	150	S	63	84	63 5	3cm, 4m
4 700-8330191 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	B(20)	61	84	44 0	4-10cm, 3-5m
4 700-8330192 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	77	84	34 5	6cm, 4m
4 700-8330193 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	01	84	80 5	5cm, 3 5m
4 700-8330195 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	83	84	50 5	6cm, 4m
4 700-8330196 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	67	84	25 5	6cm, 4m
4 700-8330197 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	79	84	40 5	5cm, 3 5m
4 700-8330198 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	70	84	50 5	7cm, 4m
4 700-8350200 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	71	84	47 5	6cm, 4m
4 700-8330201 0		1983	HWY 417 NEAR OTTAWA	ONT	CAN	45 20	76 30	75	S	77	84	58 0	6cm, 4m
4 700-8400650 0		1984	HWY 1 WEST OF HWY 403	NFLD	CAN	58 27	48 18	61	B(7)	93	85	84 0	
4 700-8400652 0		1984	GRAND FALLS	NFLD	CAN	49 00	55 35	122	B	80	85	70 0	8-9cm, 4 0-4 5m
4 700-8400653 0		1984	LAKE DOUGLAS	NFLD	CAN	48 30	56 40	305	B(7)	97	85	82 5	8-9cm, 4 0-4 5m
4 700-8400654 0		1984	BERRY HILL POND	NFLD	CAN	48 20	55 30	213	S	97	85	76 0	
4 700-8400655 0		1984	BERRY HILL POND	NFLD	CAN	48 20	55 30	213	S	02	85	75 5	
4 700-8400656 0		1984	BERRY HILL POND	NFLD	CAN	48 20	55 30	213	B(5)	87	85	56 5	7-8 5cm, 10-15y
4 700-8410744 0		1984	CORBERRIE	NS	CAN	44 13	65 56	76	S	74	85	38 5	2 1-4 2cm, 4 1-4 7m
4 700-8410745 0		1984	CORBERRIE	NS	CAN	44 13	65 56	76	B(3)	65	85	58 0	2 5-5 1cm, 3 5-6 4m
4 700-8410746 0		1984	VIEW LAKE	NS	CAN	44 32	65 21	168	S	64	85	58 0	3 4-5 1cm, 4 3-4 9m
4 700-8410747 0		1984	VIEW LAKE	NS	CAN	44 32	65 21	168	S	66	85	91 5	2-3 3cm, 2 6-4 1m
4 700-8410748 0		1984	VIEW LAKE	NS	CAN	44 32	65 21	168	B(2)	85	85	84 0	2-3 3cm, 2 7-5 2m
4 700-8410749 0		1984	VIEW LAKE	NS	CAN	45 52	63 54	15	S	51	85	46 5	2 3-3 7cm, 4-5m
4 700-8410750 0		1984	SHINIMICAS BRIDGE	NS	CAN	45 52	63 54	15	B(4)	77	85	94 0	1-3 5cm, 2 6-4 9m
4 700-8410751 0		1984	SHINIMICAS BRIDGE	NS	CAN	45 52	63 54	15	S	85	85	88 5	1 9-4 6cm, 3 2-4 9m
4 700-8410752 0		1984	QUEENS COUNTY	NB	CAN	45 57	65 45	15	S	81	85	95 5	2 8-4 1cm, 4 9-5 4m
4 700-8410753 0		1984	QUEENS COUNTY	NB	CAN	45 57	65 45	15	B(3)	81	85	88 0	1 1-4 7cm, 2 8-5 8m
4 700-8420616 0		1984	LABRIEVILLE	QUE	CAN	49 09	69 21	305	S	86	85	75 0	5 3cm, 4 1m, 18y

SEED LIST/LISTE DES SEMENCES

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SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	FROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4. 700-8420617	0	1984	LASRIEVILLE	QUE	CAN	49.09	69.21	305	B(6)	83	85	86.5	4. 3-5. 2cm, 17-18y
4. 700-8420618	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	58	85	38.5	2. 0cm, 3. 2m, 9y
4. 700-8420619	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	72	85	89.0	2. 1cm, 3. 1m, 8y
4. 700-8420620	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	76	85	65.0	2. 6cm, 4. 1m, 11y
4. 700-8420621	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	74	85	54.0	2. 6cm, 3. 35m, 9y
4. 700-8420622	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	78	85	66.0	2. 1cm, 3. 15m, 9y
4. 700-8420623	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	58	85	40.5	2. 2cm, 3. 1m, 9y
4. 700-8420624	0	1984	VAL DOR	QUE	CAN	48.25	79.05	274	S	67	85	75.0	2. 3cm, 3. 2m, 10y
4. 700-8420632	0	1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	63	85	21.0	5. 7cm, 6. 2m, 11y
4. 700-8420634	0	1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	95	85	87.5	7. 9cm, 6. 2m, 12y
4. 700-8420635	0	1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	70	85	61.5	4. 5cm, 5. 3m, 8y
4. 700-8420636	0	1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	77	85	49.5	6. 9cm, 6. 2m, 9y
4. 700-8420637	0	1984	PARISVILLE	QUE	CAN	46.33	72.06	30	S	97	85	94.5	9. 0cm, 7. 0m, 12y
4. 700-8420639	0	1984	ST AMABLE	QUE	CAN	45.38	73.20	46	S	86	85	70.0	4. 8cm, 4. 0m, 9y
4. 700-8420640	0	1984	ST AMABLE	QUE	CAN	45.38	73.20	46	S	84	85	87.0	8. 2cm, 7. 5m, 14y
4. 700-8420641	0	1984	ST AMABLE	QUE	CAN	45.38	73.20	46	B(5)	78	85	68.5	2. 6-8. 2cm, 7-16y
4. 700-8420642	0	1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	S	96	85	52.5	4. 2cm, 4. 1m, 10y
4. 700-8420643	0	1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	S	1.06	85	75.0	4. 5cm, 6. 9m, 13y
4. 700-8420645	0	1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	S	1.06	85	71.5	4. 4cm, 4. 3m, 13y
4. 700-8420646	0	1984	DRUMMONDVILLE	QUE	CAN	45.54	72.30	76	B(3)	73	85	58.0	4. 1-7. 0cm, 9-14y
4. 700-8420648	0	1984	ST THARCISUS	QUE	CAN	48.33	67.16	290	S	71	85	78.0	4. 9cm, 4. 2m, 12y
4. 700-8420650	0	1984	ST THARCISUS	QUE	CAN	48.33	67.16	290	S	94	85	87.5	4. 5cm, 5. 35m, 12y
4. 700-8420651	0	1984	ST THARCISUS	QUE	CAN	48.33	67.16	290	S	97	85	94.0	3. 9cm, 4. 8m, 8y
4. 700-8420652	0	1984	ST THARCISUS	QUE	CAN	48.33	67.16	290	S	76	85	70.5	3. 6cm, 4. 6m, 10y
4. 700-8420653	0	1984	ST THARCISUS	QUE	CAN	49.42	74.22	381	S	88	85	80.5	5. 0-5. 3cm, 12y
4. 700-8420654	0	1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	S	96	85	82.0	2. 7cm, 3. 10m, 12y
4. 700-8420655	0	1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	S	97	85	78.0	2. 6cm, 3. 0m, 13y
4. 700-8420658	0	1984	LAC DU MOULIN	QUE	CAN	49.42	74.22	381	B(2)	1.02	85	86.0	2. 9cm, 2. 9m, 12y
4. 700-8420673	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	98	85	76.5	2. 7-2. 8cm, 13y
4. 700-8420674	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	95	85	28.0	4. 5cm, 5. 2m, 13y
4. 700-8420675	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	74	85	82.5	2. 4cm, 2. 9m, 10y
4. 700-8420676	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	85	85	93.0	2. 3cm, 2. 8m, 10y
4. 700-8420677	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	81	85	94.0	4. 6cm, 5. 25m, 13y
4. 700-8420678	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	85	85	85.5	4. 3cm, 4. 9m, 12y
4. 700-8420679	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	80	85	92.5	4. 7cm, 5. 1m, 14y
4. 700-8420679	0	1984	AMDS	QUE	CAN	49.07	77.00	76	S	84	85	95.0	3. 3cm, 4. 1m, 12y
4. 700-8420686	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	79	85	80.0	2. 2cm, 2. 5m, 13y
4. 700-8420687	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	75	85	88.0	1. 9cm, 2. 7m, 11y
4. 700-8420688	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	80	85	91.5	1. 9cm, 2. 5m, 12y
4. 700-8420689	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	82	85	96.0	2. 1cm, 2. 25m, 12y
4. 700-8420690	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	72	85	91.0	2. 1cm, 2. 1m, 13y
4. 700-8420691	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	62	85	90.5	2. 1cm, 2. 25m, 12y
4. 700-8420692	0	1984	ST FEREO	QUE	CAN	47.41	71.13	747	S	65	85	86.5	1. 8cm, 2. 1m, 11y
4. 700-8420700	0	1984	MANICOUAGAN	QUE	CAN	49.49	68.44	259	S	70	85	87.0	3. 9cm, 4. 2m, 13y
4. 700-8420701	0	1984	MANICOUAGAN	QUE	CAN	49.49	68.44	259	S	88	85	69.0	3. 8cm, 4. 2m, 13y
4. 700-8420702	0	1984	MANICOUAGAN	QUE	CAN	49.49	68.44	259	B(5)	88	85	81.5	4. 2-5. 4cm, 17-19y
4. 700-8420715	0	1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	86	85	98.5	4. 9cm, 6. 1m, 14y
4. 700-8420716	0	1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	87	85	98.0	4. 1cm, 5. 4m, 13y
4. 700-8420717	0	1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	97	84	100.0	3. 8cm, 4. 9m, 13y
4. 700-8420718	0	1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	87	85	96.0	3. 7cm, 5. 0m, 13y
4. 700-8420719	0	1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	S	1.08	85	96.0	4. 5cm, 6. 1m, 14y
4. 700-8420720	0	1984	LAC SYLANS	QUE	CAN	47.19	76.53	366	B(2)	1.12	85	97.0	3. 3-3. 9cm, 12-13y
4. 700-8420726	0	1984	VERONIQUE	QUE	CAN	46.30	74.59	259	B(7)	68	85	93.0	4. 8-5. 7cm, 12-19y
4. 700-8420734	0	1984	GRANDE ANSE	QUE	CAN	47.07	72.55	122	S	1.11	85	89.0	5-6. 5m, 16y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4 700-8420735 0		1984	GRANDE ANSE	QUE	CAN	47 07	72 55	122 S	S	98	85	97 S	4 5cm, 6 2m, 16y
4 700-8420736 0		1984	GRANDE ANSE	QUE	CAN	47 07	72 55	122 S	S	64	85	97 S	4 9cm, 5 1m, 15y
4 700-8420737 0		1984	GRANDE ANSE	QUE	CAN	47 07	72 55	122 S	S	1 09	85	98 S	4 6cm, 6 1m
4 700-8420738 0		1984	GRANDE ANSE	QUE	CAN	47 07	72 55	122 S	S	84	85	100 0	5 1cm, 6 8m, 18y
4 700-8420739 0		1984	GRANDE ANSE	QUE	CAN	47 07	72 55	122 S	B(2)	50	85	100 0	4 9cm, 16-17y
4 700-8430792 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	70	85	91 S	4 6cm, 6 6m, 13y
4 700-8430793 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	98	85	92 S	2 8cm, 3 6m, 8y
4 700-8430794 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	64	85	82 0	1 9cm, 2 8m, 8y
4 700-8430795 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	71	85	33 0	3 1cm, 4 5m, 13y
4 700-8430796 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	66	85	55 0	5 8cm, 3 4m, 19y
4 700-8430797 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	78	85	84 S	3 1cm, 3 8m, 16y
4 700-8430798 0		1984	SPRUCE RIVER	ONT	CAN	49 08	89 19	457 S	S	77	85	79 0	3 6m, 5m, 16y
4 700-8430799 0		1984	HAZELWOOD	ONT	CAN	49 08	90 38	488 S	S	66	85	46 0	1 9cm, 2 7m, 7y
4 700-8430800 0		1984	HAZELWOOD	ONT	CAN	49 08	90 38	488 S	S	95	85	72 S	3 1cm, 4 1m, 8y
4 700-8430801 0		1984	HAZELWOOD	ONT	CAN	49 08	90 38	488 S	S	69	85	23 0	3 6m, 3 6m, 7y
4 700-8430802 0		1984	HAZELWOOD	ONT	CAN	49 08	90 38	488 S	S	65	85	43 0	2 8cm, 3 5m, 11y
4 700-8430804 0		1984	HAZELWOOD	ONT	CAN	49 08	90 38	488 S	S	74	85	92 0	2 6cm, 4m, 9y
4 700-8430805 0		1984	HAZELWOOD	ONT	CAN	49 08	90 38	488 S	S	77	85	83 0	2 6cm, 3 5m, 10y
4 700-8430806 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	67	85	61 0	2 6cm, 3 5m, 15y
4 700-8430807 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	86	85	94 S	2 5cm, 4 3m, 12y
4 700-8430808 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	95	85	95 S	2 6cm, 4m, 12y
4 700-8430809 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	92	85	30 S	1 7cm, 3 2m, 15y
4 700-8430810 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	92	85	30 S	2 3cm, 4 1m, 12y
4 700-8430811 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	69	85	68 0	2 6cm, 3 8m, 18y
4 700-8430812 0		1984	BEARDMORE	ONT	CAN	49 41	87 41	335 S	S	46	85	42 S	2 5cm, 3 2m, 14y
4 700-8430814 0		1984	CARAMAT	ONT	CAN	49 33	86 09	350 S	S	79	85	91 0	3 6m, 5 1m, 13y
4 700-8430815 0		1984	CARAMAT	ONT	CAN	49 33	86 09	350 S	S	87	85	69 0	2 5cm, 4 2m, 13y
4 700-8430816 0		1984	CARAMAT	ONT	CAN	49 33	86 09	350 S	S	1 00	85	82 S	1 1cm, 4 5m, 11y
4 700-8430817 0		1984	CARAMAT	ONT	CAN	49 33	86 09	350 S	S	71	85	87 S	2 8cm, 5 1m, 10y
4 700-8430818 0		1984	CARAMAT	ONT	CAN	49 33	86 09	350 S	S	1 03	85	96 0	2 6cm, 2 5m, 13y
4 700-8430819 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	49	85	81 0	2 7cm, 3 5m, 8y
4 700-8430820 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	73	84	96 S	8 2cm, 6 7m, 21y
4 700-8430821 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	65	85	78 0	7 5cm, 7m, 19y
4 700-8430823 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	71	85	63 0	6 5cm, 6m, 16y
4 700-8430824 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	87	85	68 0	6 8cm, 6 2m, 17y
4 700-8430825 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	78	85	82 S	8 5cm, 8 6m, 25y
4 700-8430826 0		1984	DOG RIVER	ONT	CAN	48 55	89 60	488 S	S	60	85	87 0	7 5cm, 7m, 21y
4 700-8430827 0		1984	CARNARVON	ONT	CAN	45 02	78 50	305 B(7)	B(7)	1 00	85	90 S	3 8 6cm, 10-13y
4 700-8430828 0		1984	CARNARVON	ONT	CAN	45 03	76 04	122 B(7)	B(7)	78	85	40 S	3 8 8 3cm, 10-16y
4 700-8430829 0		1984	FRANKTON	ONT	CAN	44 57	77 46	335 B(7)	B(7)	94	85	90 S	4 8 8 3cm, 10-20y
4 700-8430830 0		1984	MARSBORA	ONT	CAN	44 28	77 46	122 B(7)	B(7)	88	85	95 S	3 8 7cm, 9-21y
4 700-8430831 0		1984	JUNCTION HWY 60	ONT	CAN	45 28	78 14	335 B(7)	B(7)	97	85	90 S	2 5 5 5cm, 7-15y
4 700-8430832 0		1984	WHITE LAKE	ONT	CAN	45 22	76 32	183 S	S	86	85	83 S	6 4cm, 5 5m, 8y
4 700-8430833 0		1984	WHITE LAKE	ONT	CAN	45 22	76 32	183 S	S	1 00	85	93 S	5 4cm, 5 6m, 12y
4 700-8430834 0		1984	WHITE LAKE	ONT	CAN	45 22	76 32	183 S	B(4)	1 04	85	88 0	5 7cm, 5 3m, 21y
4 700-8430835 0		1984	FOXBORO	ONT	CAN	44 15	77 25	91 B(7)	B(7)	91	85	83 0	4 8 8 3cm, 11-28y
4 700-8430837 0		1984	COLBORNE	ONT	CAN	44 02	77 54	122 B(7)	B(7)	85	85	97 0	4 4 5 7cm, 9-13y
4 700-8430838 0		1984	OMENEZ	ONT	CAN	44 18	78 27	244 B(7)	B(7)	97	85	68 S	2 5 5 7cm, 7-13y
4 700-8430839 0		1984	RENFREW	ONT	CAN	45 20	77 02	305 S	S	82	85	86 0	4 4 5 7cm, 9-12y
4 700-8430840 0		1984	RENFREW	ONT	CAN	45 20	77 02	305 S	S	93	85	94 S	5 7cm, 5m, 14y
4 700-8430841 0		1984	RENFREW	ONT	CAN	45 20	77 02	305 S	S	94	85	100 0	4 8cm, 4 4m, 12y
4 700-8430842 0		1984	RENFREW	ONT	CAN	45 20	77 02	305 S	S	91	85	97 S	7 4cm, 5 6m, 20y

SEED LIST/LISTE DES SEMENCES																
SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV COLL (m)	ELEV TYPE	1000 SEED HEIGHT	YEAR TSTD	% GERM	REMARKS			
4. 700-6430E42 0	1984	REMFREW	ONT CAN	CAN	45	20	77.02	305	S	83	85	82.0	3.5cm, 3.9m, 15y			
4. 700-6430E44 0	1984	REMFREW	ONT CAN	CAN	45	20	77.02	305	B(2)	85	85	95.5	4.4-7.6cm, 12-19y			
4. 700-6450A94 0	1984	FORT A LA CORNE	SASK CAN	CAN	53	24	104.43	450	S	90	85	27.0	3.6cm, 4m, 14y			
4. 700-6450B00 0	1984	LARDIGE	SASK CAN	CAN	54	48	109.17	381	S	65	85	65.0	3.9cm, 4.3m, 15y			
4. 700-6450S01 0	1984	LARDIGE	SASK CAN	CAN	54	48	105.17	381	S	54	85	34.0	3.6cm, 4.3m, 16y			
4. 700-6450S02 0	1984	LARDIGE	SASK CAN	CAN	54	48	109.17	381	B(5)	55	85	31.5	3.4-3.8cm, 12-15y			
4. 700-6451A65 0	1984	MUSSEN BAY	SASK CAN	CAN	52	48	101.47	351	B(7)	58	85	21.5				
(4. 600) ALNUS SINUATA (white alder)																
4. 800-7971E40 0	10585	00	1979	MCHELDRIK PASS	BC	CAN	54	50	126.45	1190	B(20)	84	84	84	0	3-8cm, 1-5m
4. 800-8071E10 0	1980	CPANDROOK	BC CAN	CAN	49	35	117.05	640	B	26	84	35.0				
4. 800-8370E06 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	B(25)	47	84	91.5	3-7cm, 2-5m			
4. 800-8370E10 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	B(40)	40	85	68.5	5-8cm, 2-5m			
4. 800-8370E13 0	1983	CHINA NOSE MT	BC CAN	CAN	54	27	126.08	1430	B(30)	44	85	47.0	2-6cm, 2-3m			
4. 800-8370E14 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	B(50)	38	85	69.5	2-3cm, 1-3m			
4. 800-8370E17 0	1983	COLD CREEK	BC CAN	CAN	50	49	120.07	1310	B(40)	44	85	65.5	1-1.5cm, 2-7m			
4. 800-8370E19 0	1983	ADAMS PLATEAU	BC CAN	CAN	51	06	119.33	1280	B(40)	42	85	39.5	2-10cm, 1-6m			
4. 800-8370E20 0	1983	ROSEB PASS	BC CAN	CAN	50	39	117.52	507	B(50)	40	85	53.5	2-8cm, 1-4m			
4. 800-8370E22 0	1983	GALENA BAY	BC CAN	CAN	50	15	117.52	507	B(20)	38	85	57.5	2-5cm, 1-3m			
4. 800-8370E29 0	1983	HORE SLIDE	BC CAN	CAN	49	16	121.15	762	B(30)	52	83	71.5	2-5cm, 1-4m			
4. 800-8370E42 0	1983	GREEN MT	BC CAN	CAN	49	03	124.01	1100	B(40)	68	85	87.0	1-7cm, 1-4m			
4. 800-8370E44 0	1983	SPOAT LAKE	BC CAN	CAN	49	18	125.04	640	B(45)	49	85	29.5	1-7cm, 1-4m			
4. 800-8370E55 0	1983	MCHAY LAKE	BC CAN	CAN	49	45	125.17	914	B(20)	39	84	31.5	1-6cm, 1-4m			
4. 800-8370E66 0	1983	ROBERTS LAKE	BC CAN	CAN	50	13	125.30	366	B(35)	36	84	20.5	1-5cm, 1-4m			
4. 800-8370E77 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	43	84	79.0	SILT LOAM			
4. 800-8370E78 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	39	84	79.0	SILT LOAM			
4. 800-8370E79 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	55	84	73.5	SILT LOAM			
4. 800-8370E80 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	35	84	52.0	SILT LOAM			
4. 800-8370E81 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	42	84	81.0	SILT LOAM			
4. 800-8370E82 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	37	84	54.5	SILT LOAM			
4. 800-8370E83 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	38	84	51.0	SILT LOAM			
4. 800-8370E84 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	38	84	81.0	SILT LOAM			
4. 800-8370E85 0	1983	DEASE LAKE	BC CAN	CAN	58	45	130.03	869	S	44	84	59.0	SILT LOAM			
4. 800-8370E86 0	1983	DEASE LAKE	BC CAN	CAN	58	00	130.02	915	S	29	84	43.5	ON STEEP HILL			
4. 800-8370E97 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	31	84	47.5	ON STEEP HILL			
4. 800-8370E98 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	34	84	42.0	ON STEEP HILL			
4. 800-8370E99 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	33	84	72.0	ON STEEP HILL			
4. 800-8370S00 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	38	84	74.0	ON STEEP HILL			
4. 800-8370S01 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	43	84	62.0	ON STEEP HILL			
4. 800-8370S02 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	38	84	63.5	ON STEEP HILL			
4. 800-8370S03 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	30	84	71.5	ON STEEP HILL			
4. 800-8370S04 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	23	84	30.5	ON STEEP HILL			
4. 800-8370S05 0	1983	STIKINE RIVER	BC CAN	CAN	58	00	130.02	915	S	47	84	79.0	ON STEEP HILL			
4. 800-8370S17 0	1983	CHINA NOSE SUMMIT	BC CAN	CAN	54	27	126.08	1430	S	37	85	75.0	GRAVEL, FAIR SITE			
4. 800-8370S25 0	1983	CHINA NOSE SUMMIT	BC CAN	CAN	54	27	126.08	1430	S	45	85	89.5	GRAVEL, FAIR SITE			
4. 800-8370S28 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	35	85	81.0	SANDY GRAVEL			
4. 800-8370S30 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	62	85	60.5	SANDY GRAVEL			
4. 800-8370S31 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	40	85	79.5	SANDY GRAVEL			
4. 800-8370S32 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	48	85	71.5	SANDY GRAVEL			
4. 800-8370S33 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	46	85	82.0	SANDY GRAVEL			
4. 800-8370S35 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	42	85	80.5	SANDY GRAVEL			
4. 800-8370S36 0	1983	VANDERHOOF	BC CAN	CAN	53	56	123.49	1287	S	43	85	76.5	SANDY GRAVEL			

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4. 800-8370358	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	44	85	60.0	GRAVEL LOAM
4. 800-8370359	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	57	85	59.0	GRAVEL LOAM
4. 800-8370360	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	47	85	98.0	GRAVEL LOAM
4. 800-8370361	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	52	85	70.0	GRAVEL LOAM
4. 800-8370362	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	42	85	71.0	GRAVEL LOAM
4. 800-8370363	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	44	85	60.5	GRAVEL LOAM
4. 800-8370364	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	41	85	71.5	GRAVEL LOAM
4. 800-8370365	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	49	85	50.0	GRAVEL LOAM
4. 800-8370366	0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	S	36	85	56.5	GRAVEL LOAM
4. 800-8370377	0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	57	85	70.0	GRAVEL, 30% SLOPE
4. 800-8370378	0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	46	85	74.0	GRAVEL, 30% SLOPE
4. 800-8370379	0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	55	85	80.5	GRAVEL, 30% SLOPE
4. 800-8370380	0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	52	85	66.5	GRAVEL, 30% SLOPE
4. 800-8370381	0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	42	85	53.0	GRAVEL, 30% SLOPE
4. 800-8370382	0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	S	43	85	64.0	GRAVEL, 30% SLOPE
4. 800-8370389	0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	49	85	61.0	ROCKY CLAY LOAM
4. 800-8370390	0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	38	85	60.0	ROCKY CLAY LOAM
4. 800-8370391	0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	62	85	70.5	ROCKY CLAY LOAM
4. 800-8370393	0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	50	85	88.0	ROCKY CLAY LOAM
4. 800-8370396	0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	S	42	85	64.5	ROCKY CLAY LOAM
4. 800-8370407	0	1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	40	85	78.0	GRAVEL, POOR SITE
4. 800-8370413	0	1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	63	85	94.5	GRAVEL, POOR SITE
4. 800-8370414	0	1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	36	85	61.5	GRAVEL, POOR SITE
4. 800-8370416	0	1983	GALENA BAY	BC	CAN	50.35	117.52	607	S	42	85	84.0	GRAVEL, POOR SITE
4. 800-8370427	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	40	85	58.0	GRAVEL, POOR SITE
4. 800-8370459	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	44	85	51.0	SANDY SILT
4. 800-8370470	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	64	85	74.5	SANDY SILT
4. 800-8370471	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	52	85	66.0	SANDY SILT
4. 800-8370472	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	42	85	67.0	SANDY SILT
4. 800-8370473	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	48	85	58.5	SANDY SILT
4. 800-8370474	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	49	85	67.5	SANDY SILT
4. 800-8370475	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	48	85	77.5	SANDY SILT
4. 800-8370476	0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	S	40	85	81.5	SANDY SILT
4. 800-8370477	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	64	85	90.0	SANDY LOAM
4. 800-8370478	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	63	85	63.5	SANDY LOAM
4. 800-8370479	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	58	85	59.0	SANDY LOAM
4. 800-8370480	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	84	85	79.5	SANDY LOAM
4. 800-8370481	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	64	85	59.5	SANDY LOAM
4. 800-8370482	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	77	85	81.5	SANDY LOAM
4. 800-8370483	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	66	85	68.0	SANDY LOAM
4. 800-8370484	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	70	85	92.0	SANDY LOAM
4. 800-8370485	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	50	84	52.5	SANDY LOAM
4. 800-8370486	0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	65	85	76.0	SANDY LOAM
4. 800-8370487	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	76	84	85.0	ROCKY LOAM
4. 800-8370488	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	60	85	68.0	ROCKY LOAM
4. 800-8370489	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	73	85	86.0	ROCKY LOAM
4. 800-8370490	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	64	84	89.5	ROCKY LOAM
4. 800-8370491	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	52	85	81.5	ROCKY LOAM
4. 800-8370492	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	39	85	53.0	ROCKY LOAM
4. 800-8370493	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	38	85	64.0	ROCKY LOAM
4. 800-8370495	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	51	85	75.5	ROCKY LOAM
4. 800-8370496	0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	80	85	84.0	ROCKY LOAM

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
4. 800-8370497	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	92	83	90.0	ROCKY LOAM
4. 800-8370498	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	49	85	59.5	ROCKY LOAM
4. 800-8370499	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	39	85	47.5	ROCKY LOAM
4. 800-8370500	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	46	85	68.5	ROCKY LOAM
4. 800-8370501	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	43	85	81.5	ROCKY LOAM
4. 800-8370502	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	58	85	71.0	ROCKY LOAM
4. 800-8370503	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	52	85	70.5	ROCKY LOAM
4. 800-8370504	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	46	85	72.5	ROCKY LOAM
4. 800-8370505	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	55	83	81.0	ROCKY LOAM
4. 800-8370506	0	1983	SPROAT LAKE	BC	CAN	49 18	125 04	640	S	53	85	81.0	ROCKY LOAM
4. 800-8370507	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	42	84	57.5	ROCKY LOAM
4. 800-8370508	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	56	84	50.5	ROCKY LOAM
4. 800-8370509	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	54	84	48.0	ROCKY LOAM
4. 800-8370510	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	43	84	43.5	ROCKY LOAM
4. 800-8370511	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	41	84	39.0	ROCKY LOAM
4. 800-8370512	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	32	84	30.5	ROCKY LOAM
4. 800-8370513	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	40	84	38.0	ROCKY LOAM
4. 800-8370514	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	35	84	21.0	ROCKY LOAM
4. 800-8370515	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	41	84	20.8	3-5cm, 2-4m
4. 800-8370516	0	1983	MCKAY LAKE	BC	CAN	49 45	125 17	914	S	29	84	23.8	2-7cm, 1-3m
4. 800-8370517	0	1983	ROBERTS LAKE	BC	CAN	50 13	125 30	366	S				
4. 800-8370518	0	1983	ROBERTS LAKE	BC	CAN	50 13	125 30	366	S				
4. 800-8370519	0	1983	ROBERTS LAKE	BC	CAN	50 13	125 30	366	S				
4. 800-8370520	0	1983	ROBERTS LAKE	BC	CAN	50 13	125 30	366	S				
4. 800-8370521	0	1983	GOLDEN	BC	CAN	51 30	117 20		B100				
4. 800-8370522	0	1983	VALEMOUNT	BC	CAN	52 50	119 15	850	B100				

(4 900) ALNUS TENUIFOLIA (mountain alder)

4. 700-8360537	0	1983	HINTON	ALTA	CAN	53 25	117 45		B(20)	54	84	28.5	10cm, 8-10m
4. 700-8360538	0	1983	FT ASSINIBOINE	ALTA	CAN	54 30	114 50		B	67	84	37.0	10-20cm, 6-7m
4. 700-8360540	0	1983	FT ASSINIBOINE	ALTA	CAN	54 30	114 50		B(20)	50	84	32.5	10-12cm, 5-6m
4. 700-8360542	0	1983	WANDERING RIVER	ALTA	CAN	55 30	112 30		B(50)	50	84	33.0	5-6cm, 2-4m
4. 700-8360543	0	1983	EDSON	ALTA	CAN	53 35	116 30		B	50	84	28.0	10-12cm, 5-6m
4. 700-8370209	0	1983	DEASE LAKE	BC	CAN	58 32	130 00	817	B(25)	75	84	74.5	5-15cm, 2-7m
4. 700-8370211	0	1983	ISKUT	BC	CAN	57 53	130 00	1033	B(32)	79	85	66.5	6-12cm, 6-8m
4. 700-8370212	0	1983	HOUSTON	BC	CAN	54 29	126 13	533	B(25)	66	85	31.0	2-20cm, 3-6m
4. 700-8370215	0	1983	EDSTAIL	BC	CAN	53 57	123 28	1152	B(27)	67	84	92.0	2-20cm, 2-10m
4. 700-8370221	0	1983	THREE VALLEY GAP	BC	CAN	50 59	118 33	518	B#	48	84	36.0	4-10-1, 2-10cm, 3-7m
4. 700-8370291	0	1983	DEASE LAKE	BC	CAN	58 32	130 00	817	S	76	85	72.0	SILT LOAM
4. 700-8370292	0	1983	DEASE LAKE	BC	CAN	58 32	130 00	817	S	67	85	98.0	SILT LOAM
4. 700-8370294	0	1983	DEASE LAKE	BC	CAN	58 32	130 00	817	S	64	85	80.5	SILT LOAM
4. 700-8370295	0	1983	DEASE LAKE	BC	CAN	58 32	130 00	817	S	67	85	85.0	SILT LOAM
4. 700-8370308	0	1983	ISKUT	BC	CAN	57 53	130 00	1033	S	67	85	49.5	LOAMY SOIL
4. 700-8370311	0	1983	ISKUT	BC	CAN	57 53	130 00	1033	S	87	85	77.0	LOAMY SOIL
4. 700-8370312	0	1983	ISKUT	BC	CAN	57 53	130 00	1033	S	74	85	64.0	LOAMY SOIL
4. 700-8370315	0	1983	ISKUT	BC	CAN	57 53	130 00	1033	S	91	85	57.0	LOAMY SOIL
4. 700-8370316	0	1983	ISKUT	BC	CAN	57 53	130 00	1033	S	88	85	51.5	LOAMY SOIL
4. 700-8370337	0	1983	EDSTAIL	BC	CAN	53 57	123 28	1152	S	62	84	45.5	PEAT, FAIR GROWTH
4. 700-8370356	0	1983	CACHE CREEK	BC	CAN	50 59	121 28	541	S	57	85	46.0	GOOD SITE QUALITY
4. 700-8370400	0	1983	THREE VALLEY GAP	BC	CAN	50 59	118 33	518	S	42	84	35.5	BOG, WET SITE
4. 700-8370401	0	1983	THREE VALLEY GAP	BC	CAN	50 59	118 33	518	S	35	84	25.5	BOG, WET SITE
4. 700-8370539	0	1983	VALEMOUNT	BC	CAN	52 50	119 15	850	B(50)	58	84	40.5	3-10cm, 2-8m

(B 100) BETULA ALLEGHANIENSIS (yellow birch)

B 100-6730530	0	1965	PETAWANA NAT	ONT	CAN	45 56	77 33	200	S	93	85	25.0	
B 100-6730580	0	1967	K105K	ONT	CAN	46 10	78 30	335	S	62	82	31.8	64cm, 23m, 235-250y
B 100-6730510	0	1967	K105K	ONT	CAN	46 10	78 30	335	S	1.11	80	71.8	64cm, 19m

SEED LIST/LISTE DES SEMENCES													
SEED BANK NUMBER	NURSERY LABEL	YEAR COLLECTED	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	GERM %	REMARKS
B 100-6730330 0	1967 *1059		DNT CAN 46 10 76 30	DNT	CAN	46 10	76 30	335	S	1.14	84	58 0	53cm, 20m
B 100-6730330 0	1967 *1059		DNT CAN 46 10 76 30	DNT	CAN	46 10	76 30	335	S	1.06	80	60.4	
B 100-6730340 0	1967 FANCAKE RIVER		DNT CAN 47 02 84 38	DNT	CAN	47 02	84 38	329	S	0.83	84	48.5	
B 100-6730350 0	1967 FANCAKE RIVER		DNT CAN 47 02 84 38	DNT	CAN	47 02	84 38	335	S	0.65	84	74.0	
B 100-6730360 0	1967 FANCAKE RIVER		DNT CAN 47 02 84 38	DNT	CAN	47 02	84 38	335	S	0.76	85	74.5	
B 100-6730450 0	1967 FETAKAWA NAT. FOR		DNT CAN 45 57 77 28	INST	CAN	45 57	77 28	210	S	0.75	82	41.5	26cm, 17m, 107-110y
B 100-6731920 0	1970 SAULT STE. MARIE		DNT CAN 46 31 84 20	DNT	CAN	46 31	84 20	N/A	N/A	0.88	84	47.0	
B 100-7030630 0	1970 PEMROKE AREA		DNT CAN 45 49 77 07	DNT	CAN	45 49	77 07	150	S	1.56	84	65.0	
B 100-7030640 0	1970 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.29	84	31.0	
B 100-7030650 0	1970 FETAKAWA NAT. FOR		DNT CAN 46 00 77 25	INST	CAN	46 00	77 25	150	S	1.16	84	52.0	
B 100-7030670 0	1970 PEMROKE		DNT CAN 45 49 77 07	DNT	CAN	45 49	77 07	N/A	N/A	1.64	84	23.0	
B 100-7030680 0	1970 PEMROKE		DNT CAN 45 49 77 07	DNT	CAN	45 49	77 07	S	S	1.47	85	63.0	
B 100-7030690 0	1970 PEMROKE		DNT CAN 45 49 77 07	DNT	CAN	45 49	77 07	S	S	1.17	84	23.0	
B 100-7030900 0	1970 ALGONGUIN PARK		DNT CAN 45 45 79 00	DNT	CAN	45 45	79 00	S	S	0.94	84	66.0	SAND LK RD
B 100-7030910 0	1970 ALGONGUIN PARK		DNT CAN 45 45 79 00	DNT	CAN	45 45	79 00	S	S	0.94	84	74.0	SAND LK RD
B 100-7030920 0	1970 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.24	85	67.0	
B 100-7030930 0	1970 E. OF ALGONGUIN PK GATE		DNT CAN 45 33 78 12	DNT	CAN	45 33	78 12	S	S	1.08	85	33.5	
B 100-7030940 0	1970 E. OF ALGONGUIN PK GATE		DNT CAN 45 33 78 12	DNT	CAN	45 33	78 12	S	S	1.62	84	28.0	
B 100-7030960 0	1970 CENTRAL RESEARCH FOREST		DNT CAN 45 24 75 33	DNT	CAN	45 24	75 33	70	S	1.43	84	91.0	
B 100-7130940 0	1971 E. OF ALGONGUIN PK GATE		DNT CAN 48 33 78 12	DNT	CAN	48 33	78 12	N/A	N/A	1.13	85	35.5	
B 100-7434290 0	1971 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	0.92	84	82.0	
B 100-7434300 0	1974 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.13	84	85.0	
B 100-7434310 0	1974 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.32	85	66.5	
B 100-7434520 0	1974 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.50	84	83.0	
B 100-7434530 0	1974 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.35	84	78.0	
B 100-7434540 0	1974 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	1.38	84	34.0	
B 100-7434830 0	1974 WHITNEY		DNT CAN 45 25 78 16	DNT	CAN	45 25	78 16	460	S	1.00	84	69.0	51cm, 17m
B 100-7434860 0	1974 WHITNEY		DNT CAN 45 25 78 16	DNT	CAN	45 25	78 16	460	S	1.38	84	68.0	64cm, 18m
B 100-7434740 0	1974 WHITNEY		DNT CAN 45 25 78 16	DNT	CAN	45 25	78 16	460	S	1.07	84	73.0	56cm, 12m
B 100-7434910 0	1974 WHITNEY		DNT CAN 45 25 78 16	DNT	CAN	45 25	78 16	460	S	1.69	84	88.0	
B 100-7434930 0	1974 WHITNEY		DNT CAN 45 25 78 16	DNT	CAN	45 25	78 16	460	N/A	1.19	79	71.3	
(B 300) BETULA OCCIDENTALIS (water (black) birch)													
B 300-7474240 0	1974 HEDLEY		BC CAN 49 15 120 00	BC	CAN	49 15	120 00	460	S	32	79	73.5	8cm, 5m
(B 500) BETULA Papyrifera (white (paper) birch)													
B 500-7520430 0	1979 PARC DE LA VERENDRYE		QUE CAN 46 49 76 08	QUE	CAN	46 49	76 08	335	S	47	85	35.0	24cm, 18m
B 500-7520450 0	1979 PARC DE LA VERENDRYE		QUE CAN 46 49 76 08	QUE	CAN	46 49	76 08	335	S	45	85	32.5	14cm, 18m
B 500-7520460 0	1979 PARC DE LA VERENDRYE		QUE CAN 46 49 76 08	QUE	CAN	46 49	76 08	335	S	72	85	55.0	11cm, 12m
B 500-7520470 0	1979 PARC DE LA VERENDRYE		QUE CAN 46 49 76 08	QUE	CAN	46 49	76 08	335	S	48	85	58.0	12cm, 14m
B 500-7520490 0	1979 PARC DE LA VERENDRYE		QUE CAN 46 49 76 08	QUE	CAN	46 49	76 08	335	S	36	85	43.5	18cm, 16m
B 500-7530250 0	1979 FETAKAWA NAT. FOR		DNT CAN 46 00 77 26	INST	CAN	46 00	77 26	150	S	31	79	72.7	30cm, 14m
B 500-7540270 0	1975 SANDY LANDS FOR. RESERVE		MAN CAN 49 20 96 18	MAN	CAN	49 20	96 18	370	B(2)	27	84	46.0	15-18cm, 6-18m
B 500-7540310 0	1975 AGASSIZ FOR. RESERVE		MAN CAN 50 00 96 15	MAN	CAN	50 00	96 15	460	B(2)	38	84	72.0	5-25cm, 5-15m
B 500-7540320 0	1975 AGASSIZ FOR. RESERVE		MAN CAN 50 00 96 15	MAN	CAN	50 00	96 15	460	B(2)	30	84	40.0	5-25cm, 5-15m
B 500-7571380 0	1975 HOPE		BC CAN 49 15 121 30	BC	CAN	49 15	121 30	30	S	47	85	58.5	
B 500-7732000 0	1977 RAMSEY LAKE		DNT CAN 46 30 81 00	DNT	CAN	46 30	81 00	250	B	35	84	80.0	
B 500-8360429 0	1983 FORT MCMURRAY		ALTA CAN 57 05 111 35	ALTA	CAN	57 05	111 35	305	N/A	18	84	31.5	
(B 600) BETULA PENDULA (weeping) birch)													
B 600-7984730 0	1979 HANAU 5 SEED ORCHARD		DEU 50 08 8 52E	DEU	CAN	50 08	8 52E	110	S	18	85	35.5	

SEED LIST/LISTE DES SEMENCES										1000		YEAR		REMARKS
SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	SEED %	YEAR	YEAR	
										TD	GERM	TSTD	GERM	
B. 500-6181020 0	1981	MOS1LEVSKAYA OBLAST	SUN	54.00	30.00E	B	18	84	54.0					
B. 500-6181030 0	1981	KARELSKAYA, ASSR	SUN	65.00	35.00E	B	25	84	75.0					
B. 500-6181040 0	1981	KARELSKAYA, ASSR	SUN	65.00	35.00E	B	20	84	66.0					
B. 500-6181050 0	1981	KARELSKAYA, ASSR	SUN	65.00	35.00E	B	26	84	75.0					
B. 500-6181060 0	1981	KOSTROMSKAYA OBLAST	SUN	57.30	41.00E	B	18	84	44.0					
B. 500-6260573 0	1982	KRONBERG 2 SEED ORCHARD	DEU	50.10	8.31E	N/A	20	85	91.5					
B. 500-6260574 0	1982	USINGEN 3 SEED ORCHARD	DEU	50.17	8.36E	S	18	85	72.5					
B. 500-6260575 0	1982	PHINELAND PALATINATE	DEU	50.51	7.00E	N/A	27	85	47.0					
B. 500-6260576 0	1982	GRODZIEC	POL	52.12	16.21E	N/A	20	85	90.0					
B. 500-6280377 0	1982	KRONBERG 1 SEED ORCHARD	DEU	50.10	8.31E	S	14	85	72.5					
B. 500-6480036 0	1984	LOCH RANNOCH	SCO	56.40	4.35	S	34	84	57.5					FROM F. B. GREER
B. 500-6480990 0	1984	BLAIR ATHOLL	SCO	56.40	4.35	S	25	85	47.5					
(B. 650) BETULA PLATYPHYLLA														
B. 650-6360665 0	1983	PAO-CHI, SHENSI PROV.	CHN	35.00	107.00E	1500	N/A	16	85	28.0				
B. 650-6460987 0	1984	NEI-LUNGKIANG PROVINCE	CHN	47.00	129.00E	N/A	32	85	98.0					
(B. 800) BETULA PUBESCENS (downy birch)														
B. 800-7663900 0	1976	TARTU REGN (AARDLA) ESTON	SUN	58.32	26.46E	70	B	21	79	79.8				
B. 800-7984740 0	1979	DANNORF 5 SEED ORCHARD	DEU	52.31	10.56E	60	S	29	85	94.0				
B. 800-7984750 0	1979	DANNORF 7 SEED ORCHARD	DEU	52.31	10.56E	60	N/A	31	85	77.5				
B. 800-7984760 0	1979	DANNORF 12 SEED ORCHARD	DEU	52.31	10.56E	60	S	27	85	89.5				
B. 800-7984770 0	1979	DANNORF 17 SEED ORCHARD	DEU	52.31	10.56E	60	S	23	85	93.0				
B. 800-7984780 0	1979	DANNORF 18 SEED ORCHARD	DEU	52.31	10.56E	60	S	33	85	67.0				
(B. 900) BETULA VERRUCOSA (European white birch)														
B. 900-7663890 0	1976	MANTRA FOREST, ESTONIA	SUN	59.10	24.46E	80	B	21	79	79.9				
(10 200) CARPINUS CAROLINIANA (blue-beech, hornbeam)														
10. 200-8430044 0	1984	CHARLESTON LAKE	ONT	CAN	44.31	76.01	120	B(5)	22	29	84	82	7	3-10cm, 3-8m
(12 300) CATALPA SPECIOSA (catalpa)														
12. 300-6330639 0	1983	HALDIMAND	ONT	CAN	43.00	79.50	B(10)	17	49	84	74	0		
(20 200) FAGUS GRANDIFOLIA (American beech)														
20. 200-8430039 0	1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	S	192	25	84	93	0	45cm, 23m, 95y
20. 200-8430041 0	1984	ALGONQUIN PARK	ONT	CAN	45.17	78.11	490	S	223	04	84	70	0	45cm, 15m
(21 100) FRAXINUS AMERICANA (white ash)														
21. 100-7732920 0	10439	00 1977 RINDEAU PROV. PARK	ONT	CAN	42.18	81.51	170	S	41	81	84	38	6	
21. 100-7733170 0	10464	00 1977 NIAGARA-ON-THE-LAKE	ONT	CAN	43.16	79.04	75	S	43	58	84	32	0	
21. 100-7733300 0	10477	00 1977 TURNBERRY TOWNSHIP	ONT	CAN	43.55	81.19	300	S	53	12	84	52	0	
21. 100-7733330 0	10480	00 1977 TURNBERRY TOWNSHIP	ONT	CAN	43.55	81.19	300	S	57	26	84	61	3	
21. 100-7733360 0	10483	00 1977 DUNGANNON	ONT	CAN	43.52	81.35	244	S	53	14	84	28	0	
21. 100-7733380 0	10485	00 1977 DUNGANNON	ONT	CAN	43.52	81.35	244	S	57	99	84	54	7	
21. 100-7733420 0	10489	00 1977 TARA	ONT	CAN	44.25	81.12	244	S	44	47	84	62	7	
21. 100-7733430 0	10490	00 1977 TARA	ONT	CAN	44.25	81.12	244	S	51	11	84	46	7	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
21 100-7733490 0	10492 00	1977	TARA	CAN	44 26	81 12	244	S	49.54	84	37.3	
21 100-7733780 0	10525 00	1977	SIBBALT	CAN	44 17	79 14	213	S	47.20	84	32.0	

(21 150) FRAXINUS CHINENSIS

SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
21 150-8480988 0	1984	PEKING MUNICIPALITY	CHN	40 00	116 00E	42	N/A		26.69	85	82.5	

(21 900) FRAXINUS PENNSYLVANICA (red ash)

SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
21 500-7733940 0	10343 00	1977	ROBS TOWNSHIP	CAN	45 41	76 43	90	S	34.97	84	21.0	3m
21 500-7733990 0	10546 00	1977	OSGOODE TOWNSHIP	CAN	45 13	75 34	90	S	47.26	84	56.0	
21 500-7734010 0	10548 00	1977	OSGOODE TOWNSHIP	CAN	45 13	75 34	90	S	47.32	84	51.0	
21 500-7734020 0	10549 00	1977	DRUMMOND TOWNSHIP	CAN	44 58	76 20	150	S	38.82	84	55.5	
21 500-7734040 0	10551 00	1977	DRUMMOND TOWNSHIP	CAN	44 58	76 20	150	S	49.38	84	62.0	
21 500-7734050 0	10552 00	1977	DRUMMOND TOWNSHIP	CAN	44 58	76 20	150	S	35.56	84	57.0	
21 500-7734070 0	10554 00	1977	ROXBOROUGH TOWNSHIP	CAN	45 12	74 55	90	S	56.67	84	60.5	17m
21 500-7734090 0	10556 00	1977	ROXBOROUGH TOWNSHIP	CAN	45 12	74 55	90	S	50.02	84	49.0	
21 500-7734150 0	10563 00	1977	WILLIAMSBURG TOWNSHIP	CAN	44 50	75 11	60	S	37.52	84	32.0	
21 500-7734230 0	10570 00	1977	SOPERTON	CAN	44 37	76 03	90	S	37.70	84	55.0	
21 500-7734270 0	10574 00	1977	ERNESTOWN TOWNSHIP	CAN	44 10	76 48	80	S	35.92	84	70.0	
21 500-7734290 0	10576 00	1977	ERNESTOWN TOWNSHIP	CAN	44 10	76 48	80	S	27.70	84	57.5	
21 500-7734310 0	10578 00	1977	ERNESTOWN TOWNSHIP	CAN	44 10	76 48	80	S	44.12	84	53.0	
21 500-7734400 0	10588 00	1977	ELZEVIR TOWNSHIP	CAN	44 34	77 16	190	S	30.38	84	70.0	
21 500-7734410 0	10589 00	1977	ELZEVIR TOWNSHIP	CAN	44 34	77 16	190	S	25.73	84	57.0	
21 500-7734470 0	10594 00	1977	RONDEAU PROV. PARK	CAN	42 07	81 51	160	S	27.58	84	29.3	
21 500-7734480 0	10595 00	1977	RONDEAU PROV. PARK	CAN	42 07	81 51	160	S	35.14	84	63.0	
21 500-7734490 0	10596 00	1977	RONDEAU PROV. PARK	CAN	42 07	81 51	160	S	24.53	84	30.0	
21 500-7734580 0	10605 00	1977	BLEINHEIM	CAN	42 19	81 57	160	S	50.94	84	46.5	
21 500-7734660 0	10619 00	1977	NORWICH	CAN	42 59	80 33	213	S	36.92	84	54.0	
21 500-7734730 0	10620 00	1977	FORT DOVER	CAN	42 51	80 10	213	S	39.68	84	40.0	
21 500-7734790 0	10626 00	1977	NIAGARA-ON-THE-LAKE	CAN	43 14	79 10	76	S	34.08	84	44.0	
21 500-7734830 0	10630 00	1977	WAINFLEET, NEWARK PARK	CAN	42 56	79 23	244	S	36.71	84	48.0	
21 500-7734880 0	10635 00	1977	WESTOVER	CAN	43 20	80 05	244	S	26.07	84	63.0	
21 500-7734890 0	10636 00	1977	WESTOVER	CAN	43 20	80 05	244	S	27.60	84	35.0	
21 500-7734950 0	10642 00	1977	WINGHAM	CAN	43 55	81 23	305	S	38.92	85	46.0	
21 500-7735060 0	10643 00	1977	HEAFORD	CAN	44 05	80 31	183	S	36.12	84	62.0	
21 500-7735070 0	10654 00	1977	HEAFORD	CAN	44 05	80 31	183	S	33.02	85	32.0	
21 500-7735140 0	10661 00	1977	TINY MARSH	CAN	44 34	79 56	213	S	21.10	84	43.5	
21 500-7735170 0	10664 00	1977	TINY MARSH	CAN	44 35	79 56	213	S	34.89	84	65.3	
21 500-7735190 0	10666 00	1977	STOFFVILLE	CAN	43 57	79 14	213	S	41.45	84	47.0	
21 500-7736000 0	10698 00	1977	CUMBERLAND	CAN	45 31	75 25	91	S	38.78	85	32.0	
21 500-7736040 0	10702 00	1977	CUMBERLAND	CAN	45 31	75 25	91	S	29.59	84	79.0	
21 500-8335071 0	1983	CITY OF THOROLD	CAN	43 07	79 22	51	S	44.32	84	51.0	26m, 18m	

(28 100) LARIX DECIDUA (European larch)

SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
28 100-7282160 0	1972	SABINDV	CSK	49 05	20 40E	550	B		4.41	78	52.0	
28 100-7584720 0	1975	FOV DYSTRICA	CSK	49 07	18 26E	500	B		3.24	83	21.0	
28 100-7687590 0	1976	HUSTVA	CSK	48 42	19 57E	300	B		4.44	83	26.0	
28 100-7983390 0	1979	CHOCEN	CSK	50 00	14 18E	280	B		3.86	79	41.0	
28 100-8380648 0	1983	MLADA BOLESNAV, BREZNO	CSK	50 30	15 00E	270	N/A		5.52	84	59.0	FROM K. VANCURA
28 100-8380648 0	1983	CESSKY KRUMLOV, CHVALESTIN	CSK	48 50	14 10E	520	N/A		6.33	84	48.0	FROM K. VANCURA

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER NURSERY YEAR SEED WEIGHT YEAR %

SEED COLL. NURSEY YEAR SEED WEIGHT YEAR %

26 100-6360630 0 1983 544-EC, LETOVICE CSK 49 60 16.50E 440 N/A 5.73 84 59.5 FROM K. VANCURA

(26 300) LARIX Gmelini (Sakhalin larch)
 26 300-7195500 0 1971 HELING-KIANG PROV. CHN 47 00 129.00E B 4.28 83 86.5
 26 300-6081120 0 1980 KIRIN PROVINCE CHN 44 00 126.00E B 6.52 84 58.0
 26 300-6081830 0 1980 YAKUTSKAYA ASSR SUN 42 00 13.00E B 3.08 84 47.0
 26 300-6380678 0 1983 HU-LUN-PEI-ERH CHN 30 00 124.00E 200 N/A 4.98 85 89.0

(26 350) LARIX Gmelini var. OLGENSIS
 26 350-6081130 0 1980 KIRIN PROVINCE CHN 44 00 126.00E B 5.00 83 57.0
 26 350-6180860 0 1981 KIRIN PROVINCE CHN 44 00 126.00E B 4.50 83 54.0

(26 400) LARIX LARICINA (Amurack, eastern larch)
 26 400-6730210 0 1967 PETAWAMA NAT FOR. ONT CAN 45 58 77 26 180 N/A 1.53 84 60.0
 26 400-7031510 0 1970 BISSETT CREEK ONT CAN 46 13 78 01 171 S 2.35 84 96.0
 26 400-7031540 0 1970 BISSETT CREEK ONT CAN 46 13 78 01 171 S 2.83 84 96.5
 26 400-7031560 0 1970 SUPPLE LAKE ONT CAN 45 49 77 18 187 S 2.26 84 67.0
 26 400-7031570 0 1970 SUPPLE LAKE ONT CAN 45 49 77 18 187 S 2.22 84 25.5
 26 400-7031580 0 1970 PETAWAMA NAT FOR. ONT CAN 45 58 77 25 168 B 1.91 84 61.0
 26 400-7031590 0 1970 PETAWAMA NAT FOR. ONT CAN 45 58 77 25 168 S 2.07 84 77.5
 26 400-7031610 0 1970 PETAWAMA NAT FOR. ONT CAN 45 58 77 25 168 S 2.47 84 69.5
 26 400-7930130 0 1979 BOECAYGEON ROAD ONT CAN 45 00 78 45 480 S 2.10 83 80.0
 26 400-7930170 0 1979 BOECAYGEON ROAD ONT CAN 45 00 78 45 480 S 2.10 83 80.0
 26 400-7930280 0 1979 CORNHALL DIST. (60-6200) ONT CAN 45 12 75 04 80 B 2.15 83 70.5
 26 400-7930290 0 1979 ROBERTSON LAKE ONT CAN 45 12 76 36 275 B 2.80 83 84.0
 26 400-7930300 0 1979 OXFORD TOWNSHIP ONT CAN 44 55 75 39 90 B 2.40 83 86.0
 26 400-7930310 0 1979 CAPLESDAD SPRINGS ONT CAN 45 22 75 28 B(29) 2.30 83 84.0
 26 400-7930320 0 1979 GLOUCESTER TOWNSHIP ONT CAN 45 22 75 30 B(15) 2.30 83 60.0
 26 400-7930760 0 1979 MURRAY TOWNSHIP ONT CAN 44 12 77 44 120 D(B) 2.10 83 77.0
 26 400-7931570 0 1979 IGNACE TOWNSHIP ONT CAN 49 25 91 40 450 S 2.00 83 89.0
 26 400-7931590 0 1979 IGNACE TOWNSHIP ONT CAN 49 25 91 40 450 S 1.60 83 97.0
 26 400-7931640 0 1979 IGNACE TOWNSHIP ONT CAN 49 25 91 40 450 S 1.80 84 93.0
 26 400-8223500 0 1982 CAPLETON DISTRICT ONT CAN 45 08 76 09 2.30 85 64.0

(26 700) LARIX OCCIDENTALIS (western larch)
 26 700-8470085 0 1984 FLATHEAD VALLEY BC CAN 49 04 114 24 1500 S 3.49 85 60.0 43 2cm, 22.6m

(26 720) LARIX OLGENSIS
 26 720-6480985 0 1984 KIRIN PROVINCE CHN 43 00 126.00E N/A 5.14 85 71.0

(26 800) LARIX SIBIRICA (Siberian larch)
 26 800-7155580 0 1984 00 1971 INDIAN HEAD SASK CAN 50 31 103 41 590 B 11.18 84 71.0 11-31cm, 19-23m, 61y

(31 695) PAULOWNIA FARCESII
 31 695-8480984 0 1984 KIANGSU PROVINCE CHN 32 00 120.00E N/A 28 85 82.5

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER NURSERY YEAR COLL PROVENANCE PROV CTRY LAT LONG ELEV COLL TYPE 1000 SEED WEIGHT YEAR TSTD GERM REMARKS

(32 100) PICEA ABIES (Norway spruce)

32 100-6730670 0	1967	PETAWAMA NAT.	FOR INST	CAN	46 00	77 25	150	B	11.95	83	78.5	
32 100-6730880 0	1967	PETAWAMA NAT.	FOR INST	CAN	46 00	77 25	150	B	8.70	83	87.0	
32 100-6980270 0	1968	IVANTJARN		SWE	60 48	16 45E	240	B	6.65	83	85.5	
32 100-6880280 0	1968	CENTRAL FINLAND		FIN	62 00	24 00E		B	5.22	83	34.5	
32 100-7363260 0	1973	COSNA FOR DIST.		ROM	27 00	45 00E		B	7.38	83	76.5	
32 100-7363270 0	1973	MOLDOVITA DIST.		ROM	46 50	27 00E		B	7.75	83	72.7	
32 100-7486620 0	1974	PRIENU, LITHUANIAN SSR		SUN	54 12	23 51E	107	B	7.01	83	77.0	49cm, 36m, 150y
32 100-7486030 0	1974	VILNIJUS, LITHUANIAN SSR		SUN	54 48	25 18E	150	S	6.84	83	61.3	38cm, 31m, 90y
32 100-7581500 0	1975	TARTU RES FOR ESTONIAN		SUN	58 22	26 46E	60	B	6.25	83	91.0	
32 100-7885990 0	1978	VILJANDI NR. 99 ESTONIA		SUN	58 15	25 15E	120	S	7.89	83	79.0	
32 100-7886790 0	1978	LENINGRAD OBLAST		SUN	60 00	31 00E		B	6.16	83	78.0	
32 100-7886800 0	1978	PSKOV OBLAST		SUN	57 00	27 00E		B	6.67	83	67.0	
32 100-7886810 0	1978	ARKHANGEL'SK OBLAST		SUN	68 00	45 00E		B	4.79	83	91.8	
32 100-7886820 0	1978	VOLOGDA OBLAST		SUN	58 00	40 00E		B	5.69	83	71.7	
32 100-7886830 0	1978	KOSTROMA OBLAST		SUN	57 00	42 00E		B	4.94	83	70.3	
32 100-7886840 0	1978	KALININ OBLAST		SUN	57 00	37 00E		B	7.12	83	92.1	
32 100-7886850 0	1978	KALUGA OBLAST		SUN	53 00	36 00E		B	6.46	83	68.8	
32 100-7984100 0	1979	YAROSLAVSKA OBLAST		SUN	57 00	39 00E		B	5.19	83	76.5	
32 100-7984110 0	1979	KOSTROMSKAYA OBLAST		SUN	58 00	41 00E		B	5.03	83	71.0	
32 100-8181010 0	1981	KALUZHKAJA OBLAST		SUN	54 00	35 00E		B	6.04	83	61.5	
32 100-8380651 0	1983	BUCHLOVICE, ROSTIN		CSK	49 20	17 40E	450	N/A	7.98	84	80.5	FROM K. VANCURA
32 100-8380652 0	1983	HARRACHOV, VITKOVICE		CSK	50 80	15 40E	850	N/A	8.48	84	69.5	FROM K. VANCURA
32 100-8380653 0	1983	ZVESTOVICE		CSK	49 60	14 30E	600	N/A	7.26	84	83.5	FROM K. VANCURA
32 100-8480952 0	1984	AMOT		SWE	61 00	16 30E	250	N/A	5.02	85	84.0	
32 100-8480953 0	1984	OVANAKER HOHYREN		SWE	61 15	15 45E	200	N/A	5.30	85	44.5	

(32 400) PICEA ENGELMANNII (Engelmann spruce)

32 400-7161950 0	1971	HIGHWOOD SUMMIT		ALTA	CAN	50 20	114 30	2225	B	1.88	83	40.5	15m
32 400-8470992 0	1984	BASTON MOUNTAIN		BC	CAN	50 52	119 09	1600	B(50)	2.13	85	79.0	
32 400-8470993 0	1984	ADAM'S LAKE		BC	CAN	51 30	119 30	1400	B(12)	2.06	85	77.5	

(32 500) PICEA GLAUCA (white spruce)

32 500-0024370 0	8604 00	1955	ANGUS	ONT	CAN	44 15	79 55	220	N/A	2.66	83	35.3	
32 500-0024560 0	8002 00	1956	LAKE ST. PATRICK	GUE	CAN	46 18	77 19	304	B	2.05	83	39.4	
32 500-0024590 0	8623 00	1956	ALGONQUIN PARK	ONT	CAN	45 34	78 36	426	S	1.97	83	91.0	
32 500-0024500 0	8624 00	1956	MAYNODD	ONT	CAN	45 14	77 56	394	N/A	2.22	83	39.5	
32 500-0024620 0	8626 00	1956	MENALLY LAKE	GUE	CAN	46 32	76 50	243	N/A	2.12	83	35.0	
32 500-0024660 0	8629 00	1936	MANITOULIN IS.	ONT	CAN	45 50	82 55	205	N/A	2.17	83	51.0	
32 500-0024590 0	8632 00	1956	AYLMER LAKE	GUE	CAN	45 59	71 22	304	S	2.30	83	58.5	
32 500-0024720 0	8005 00	1956	PRICE	GUE	CAN	48 36	68 07	304	S	1.84	83	38.0	
32 500-0024770 0	8639 00	1956	ASHLEY MINES (WIGWAG LK)	ONT	CAN	48 00	81 00	365	S	1.78	83	36.0	
32 500-0024840 0	8645 00	1956	MITCHINAMEKUS L	GUE	CAN	47 23	75 09	396	S	1.77	83	36.0	
32 500-0024850 0	8646 00	1956	LAC SIMARD	GUE	CAN	47 32	78 37	274	S	2.02	83	50.0	
32 500-0025560 0	8652 00		N. SEAL CREEK	MAN	CAN	56 54	92 51	30	S	2.07	83	33.0	
32 500-0026940 0	8657 00	1960	ACADIA FOR. EXP. STA.	NB	CAN	46 00	66 21	76	S	2.26	83	65.5	
32 500-0028700 0	8661 00	1959	KAPUSKASING	ONT	CAN	48 55	82 47	259	S	2.08	83	34.8	
32 500-0028950 0	8662 00		GRAND PILES	GUE	CAN	46 45	73 05	365	S	2.23	83	47.0	
32 500-0051930 0	8676 00		WESTMEATH TOWNSHIP	ONT	CAN	45 50	76 50	121	S	2.05	83	55.0	ST. 1601
32 500-5310010 0	8693 00	1953	KLONDYKE ROAD	PEI	CAN	46 25	62 28	60	S	2.46	83	60.1	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER NURSERY YEAR COLL PROVENANCE PROV CTRY LAT LONG ELEV COLL TYPE SEED HEIGHT 1000 YEAR % REMARKS

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV COLL (m)	COLL TYPE	SEED HEIGHT	1000 YEAR %	REMARKS	
32 500-5620220 0	8616 00	1956	CASEY	QUE	CAN	47 53	74 11		N/A	1.65	83	39.5	
32 500-5810010 0	8694 00	1958	GYPSSUM MINES	NS	CAN	44 59	44 04	30	N/A	2.10	83	86.0	
32 500-6030480 0		1960	PETAHAWA NAT.	ONT	CAN	45 58	77 24	160	N/A	1.90	83	67.5	
32 500-6530740 0		1965	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.90	83	41.2	ST 1851
32 500-6530760 0		1965	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.40	83	84.9	ST 1854
32 500-6531000 0		1965	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.25	83	43.5	ST 1853
32 500-6630010 0		1966	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	N/A	2.94	83	69.5	
32 500-6630520 0		1966	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	N/A	3.24	83	88.0	ST 1861
32 500-6632390 0		1966	PETAHAWA NAT.	ONT	CAN	45 58	77 24	160	S	2.32	84	75.0	
32 500-6730660 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.73	83	53.5	ST 1622
32 500-6730670 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.92	83	53.5	ST 1624
32 500-6730680 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.69	83	89.0	ST 1625
32 500-6730690 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.10	83	96.0	ST 1746
32 500-6730700 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.47	83	66.0	ST 1747
32 500-6730710 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.10	83	68.0	ST 1750
32 500-6730740 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.95	83	79.0	ST 1832
32 500-6730750 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.99	83	80.0	ST 1854
32 500-6730760 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.01	83	63.5	ST 1862
32 500-6730830 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.19	83	77.5	
32 500-6731020 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.78	83	87.6	ST 1853
32 500-6731030 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.28	83	76.0	ST 1856
32 500-6731050 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.64	83	89.5	ST 1859
32 500-6731060 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.53	83	90.0	ST 1864
32 500-6731110 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	1.53	83	37.0	ST 1865
32 500-6731120 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.44	83	96.5	ST 1756
32 500-6731180 0		1967	PETAHAWA NAT.	ONT	CAN	46 00	77 20	182	S	2.56	83	82.5	ST 1757
32 500-6800190 0	8007 00	1968	GANDER	ONT	CAN	46 31	84 20		N/A	2.10	83	88.5	
32 500-7000790 0	8080 00	1970	GRAND FALLS	NFLD	CAN	48 57	54 45	91	B	2.71	83	37.5	
32 500-7000790 0	8096 00	1970	GRAND LAKE	NFLD	CAN	48 55	55 51	106	B	2.76	83	96.5	3-13m, 15-48y
32 500-7010750 0	8095 00	1970	ACADIA FOR EXP STA	NFLD	CAN	48 53	57 36	45	B	2.28	83	93.0	10-25cm, 3-8m, 15y
32 500-7011120 0	8119 00	1970	HARBOUR CENTRE	NB	CAN	46 00	66 21	76	N/A	2.33	84	93.0	
32 500-7011150 0	8101 00	1970	ST ANN'S	NS	CAN	45 47	61 56	91	N/A	2.20	83	95.5	
32 500-7011160 0	8004 00	1970	ST ANN'S	NS	CAN	46 14	60 37	137	B	2.48	83	85.0	15-30cm, 11m, 70y
32 500-7011170 0	8148 00	1970	BASE GAGETOWN	NS	CAN	45 57	61 18	167	B	2.50	83	69.0	18cm, 39-47y
32 500-7020760 0	8041 00	1970	ST ELZEAR	NB	CAN	45 32	66 21	167	N/A	2.13	83	92.0	
32 500-7020770 0	8042 00	1970	LAC LA TORTUE	QUE	CAN	46 39	72 36	131	S	2.08	83	96.5	18cm, 15m, 70y
32 500-7020800 0	8103 00	1970	WATOPEKA FOREST	QUE	CAN	45 35	71 54	213	S	2.62	83	95.5	18cm, 12m, 40y
32 500-7020810 0		1970	MOBURN	QUE	CAN	45 18	70 53	853	S	2.89	83	95.5	20cm, 14m, 70y
32 500-7030550 0	8713 01	1970	SEACHBURG	ONT	CAN	45 45	76 50	137	S	2.44	84	33.0	ST 2451
32 500-7030560 0	8713 02	1970	SEACHBURG	ONT	CAN	45 45	76 50	137	S	2.47	83	89.5	ST 2452
32 500-7030640 0	8713 03	1970	SEACHBURG	ONT	CAN	45 45	76 50	137	S	2.27	83	96.0	ST 2460
32 500-7030670 0	8714 01	1970	ALICE	ONT	CAN	45 45	77 18	182	S	2.55	83	92.5	ST 2463
32 500-7030700 0	8714 03	1970	ALICE	ONT	CAN	45 45	77 18	182	S	2.55	83	95.5	ST 2466
32 500-7030730 0	8714 05	1970	ALICE	ONT	CAN	45 45	77 18	182	S	2.01	83	95.5	ST 2466
32 500-7030740 0	8143 00	1970	CUSHMANS	ONT	CAN	45 45	77 18	182	S	3.20	83	88.5	ST 2469
32 500-7031130 0		1970	RANJICK MINE	ONT	CAN	49 10	81 15	265	N/A	2.22	83	63.0	
32 500-7061820 0	8160 00	1970	NORDEGG	ONT	CAN	47 15	83 35	228	B	2.21	83	71.5	18-24m, 90-140y
32 500-7061830 0		1970	ROCKY MTN HOUSE	ALTA	CAN	52 11	116 00	1924	N/A	2.70	78	87.0	
32 500-7063220 0	8314 00	1970	SLAVE LAKE	ALTA	CAN	52 35	115 15	762	N/A	2.60	84	85.0	
32 500-7072020 0	8159 00	1970	SUNDOWN CREEK	ALTA	CAN	55 14	114 36	510	B	2.32	83	42.4	
32 500-7073740 0	8217 00	1970	PAPROTT LAKE	BC	CAN	55 20	120 40	1127	N/A	2.11	83	38.0	
32 500-7073760 0	8219 00	1970	GARDEN CR	BC	CAN	54 11	126 40	823	B	1.83	83	42.7	
32 500-7073760 0		1970	GARDEN CR	BC	CAN	55 15	123 05	914	B	2.00	83	45.7	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT (gsm)	YEAR ESTD	% GERM	REMARKS
32 500-7073800 C	8223 00	1970	MCDAME POST	QC	CAN	59 10	125 15	762	B	1.91	83	47.5	
32 500-7073820 C	8225 00	1970	FORT FRASER	BC	CAN	53 52	124 37	762	B	1.79	83	33.5	
32 500-7073830 C	8226 00	1970	LOWER POST	BC	CAN	59 55	128 30	640	B	1.79	83	35.3	
32 500-7100490 0	8171 00	1971	FASADENA	WFLD	CAN	45 01	57 37	45	N/A	3.01	83	68.2	
32 500-7130500 0		1971	ALICE	ONT	CAN	45 45	77 18	182	N/A	2.70	83	94.0	
32 500-7130510 0		1971	ALICE	ONT	CAN	45 45	77 18	182	N/A	2.58	83	47.8	
32 500-7130560 C		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.48	83	99.0	
32 500-7130570 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	N/A	2.69	83	88.5	
32 500-7130580 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	N/A	2.63	83	95.5	
32 500-7130590 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	N/A	2.50	83	99.5	
32 500-7130600 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	B	2.36	83	56.0	
32 500-7130610 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.50	83	68.0	
32 500-7130620 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.89	83	98.0	
32 500-7130630 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.23	83	97.0	
32 500-7130640 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.50	83	97.4	
32 500-7130650 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	3.21	83	95.0	
32 500-7130660 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	1.92	83	98.0	
32 500-7130670 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.15	83	87.0	
32 500-7130680 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	N/A	2.27	83	90.5	
32 500-7130700 0		1971	WHITNEY	ONT	CAN	45 31	78 15	457	B(2)	2.49	83	81.0	
32 500-7132350 0	8214 01	1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.19	83	70.7	
32 500-7132360 0	8214 03	1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.78	83	78.5	
32 500-7132440 0	8214 09	1971	WHITNEY	ONT	CAN	45 31	78 15	457	S	2.82	83	99.0	
32 500-7132450 0	8016 01	1971	TROUT CREEK, GURD TWP	ONT	CAN	45 59	79 27	335	S	2.41	83	91.5	29cm, 11m, 28y
32 500-7132460 0	8016 02	1971	TROUT CREEK, GURD TWP	ONT	CAN	45 59	79 27	335	S	3.34	83	94.0	32cm, 12m, 31y
32 500-7132470 0	8016 03	1971	TROUT CREEK, GURD TWP	ONT	CAN	45 59	79 27	335	S	3.54	83	72.5	36cm, 13m, 27y
32 500-7132520 0	8016 08	1971	TROUT CREEK, GURD TWP	ONT	CAN	45 59	79 27	335	S	3.33	83	85.5	38cm, 12m
32 500-7132540 0	8016 10	1971	TROUT CREEK, GURD TWP	ONT	CAN	45 59	79 27	335	S	2.45	83	93.0	29cm, 15m, 29y
32 500-7132550 0	8153 01	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.14	83	96.0	
32 500-7132560 0	8153 02	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.05	83	100.0	
32 500-7132570 0	8153 03	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.27	83	92.0	
32 500-7132580 0	8153 04	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.60	83	82.0	
32 500-7132590 0	8153 05	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.34	83	93.0	
32 500-7132620 0	8153 08	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.04	83	92.0	
32 500-7132630 0	8153 09	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	2.22	83	71.5	
32 500-7132640 0	8153 10	1971	BIG JOCKO RIVER	ONT	CAN	46 36	79 10	504	S	3.48	83	90.0	
32 500-7132650 0	8019 01	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.44	83	59.5	31cm, 23m, 65y
32 500-7132660 0	8019 02	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.27	83	78.5	46cm, 24m, 53y
32 500-7132670 0	8019 03	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.33	83	94.5	33cm, 21m, 48y
32 500-7132690 0	8019 05	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.91	83	97.5	34cm, 23m, 78y
32 500-7132700 0	8019 06	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.08	83	62.5	
32 500-7132710 0	8019 07	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	1.88	83	99.5	
32 500-7132720 0	8019 08	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.18	83	92.0	
32 500-7132730 0	8019 09	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.10	83	50.0	
32 500-7132740 0	8019 10	1971	RUTHERGLEN, CALVIN TWP	ONT	CAN	46 17	79 04	228	S	2.39	83	94.0	
32 500-7132790 0	8020 05	1971	ESTAIRE, SERVOS TWP	ONT	CAN	46 14	80 43	213	S	2.26	83	94.0	
32 500-7132810 0	8020 07	1971	ESTAIRE, SERVOS TWP	ONT	CAN	46 14	80 43	213	S	1.58	83	93.5	
32 500-7132840 0	8037 01	1971	SEARCHMONT	ONT	CAN	46 44	83 56	365	S	2.72	83	98.5	
32 500-7132870 0	8037 04	1971	SEARCHMONT	ONT	CAN	46 44	83 56	365	S	2.52	83	99.0	
32 500-7132980 0	8039 08	1971	NANA	ONT	CAN	47 55	84 45	304	S	2.11	83	48.0	
32 500-7133000 0	8045 01	1971	BOUCHARD LAKE	ONT	CAN	48 47	85 30	457	S	2.34	83	99.0	
32 500-7133010 0	8045 02	1971	BOUCHARD LAKE	ONT	CAN	48 47	85 30	457	S	2.34	83	92.5	
32 500-7133040 0	8045 05	1971	BOUCHARD LAKE	ONT	CAN	48 47	85 30	457	S	1.59	83	88.5	
32 500-7133050 0	8045 06	1971	BOUCHARD LAKE	ONT	CAN	48 47	85 30	457	S	2.37	83	98.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-7133040 0	8045 07	1971	BOUCHARD LAKE	DNT	CAN	48 47	85 30	457 8	S	1.71	83	98.5	
32 500-7133070 0	8045 08	1971	BOUCHARD LAKE	DNT	CAN	48 47	85 30	457 8	S	1.60	83	86.0	
32 500-7133110 0	8087 03	1971	PIDGEON RIVER	DNT	CAN	48 01	89 39	304 8	S	1.94	83	59.5	
32 500-7133160 0	8087 08	1971	PIDGEON RIVER	DNT	CAN	48 01	89 39	304 8	S	1.85	83	54.5	
32 500-7133180 0	8088 02	1971	SHEBANDOWAN	DNT	CAN	48 37	90 11	457 8	S	2.74	83	94.5	
32 500-7133190 0	8088 03	1971	SHEBANDOWAN	DNT	CAN	48 37	90 11	457 8	S	1.92	83	85.5	
32 500-7133210 0	8088 05	1971	SHEBANDOWAN	DNT	CAN	48 37	90 11	457 8	S	2.10	83	66.5	
32 500-7133220 0	8088 06	1971	SHEBANDOWAN	DNT	CAN	48 37	90 11	457 8	S	1.47	83	78.5	
32 500-7133230 0	8089 01	1971	EVA LAKE	DNT	CAN	48 37	90 11	457 8	S	1.70	83	69.5	
32 500-7133260 0	8089 04	1971	EVA LAKE	DNT	CAN	48 40	91 25	426 8	S	1.98	83	77 0	
32 500-7133280 0	8089 06	1971	EVA LAKE	DNT	CAN	48 40	91 25	426 8	S	1.54	83	87 0	
32 500-7133290 0	8089 07	1971	EVA LAKE	DNT	CAN	48 40	91 25	426 8	S	2.10	83	92 5	
32 500-7133300 0	8056 01	1971	NIPIGON	DNT	CAN	49 12	88 13	228 8	S	1.54	83	98 5	
32 500-7133400 0	8097 01	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	2.67	83	96 5	
32 500-7133410 0	8097 02	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	2.67	83	96 5	
32 500-7133420 0	8097 03	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.88	83	95 5	
32 500-7133430 0	8097 04	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.64	83	90 0	
32 500-7133440 0	8097 05	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.92	83	76 5	
32 500-7133450 0	8097 06	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.64	83	99 0	
32 500-7133460 0	8097 07	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.63	83	90 5	
32 500-7133470 0	8097 08	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.84	83	89 5	
32 500-7133480 0	8097 09	1971	FINLAND	DNT	CAN	48 57	93 56	365 8	S	1.87	83	98 0	
32 500-7133490 0	8097 10	1971	FINLAND	DNT	CAN	49 30	94 04	335 8	S	2.16	83	90 5	
32 500-7133500 0	8098 01	1971	STOIX NARROWS	DNT	CAN	48 57	93 56	365 8	S	2.14	83	69 0	
32 500-7133510 0	8098 02	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.17	83	96 5	
32 500-7133520 0	8098 03	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.09	83	82 0	
32 500-7133530 0	8098 04	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.52	83	98 0	
32 500-7133540 0	8098 05	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.73	83	92 0	33cm, 15m
32 500-7133550 0	8098 06	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.01	83	78 5	34cm, 17m
32 500-7133560 0	8098 07	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	1.92	83	83 5	
32 500-7133580 0	8098 09	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.11	83	85 0	24cm, 20m
32 500-7133590 0	8098 10	1971	STOIX NARROWS	DNT	CAN	49 30	94 04	335 8	S	2.50	83	63 5	36cm, 18m
32 500-7133610 0	8099 02	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	1.87	83	77 5	27cm, 20m
32 500-7133620 0	8099 03	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	2.36	83	90 0	29cm, 18m
32 500-7133630 0	8099 04	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	1.89	83	88 5	35cm, 20m
32 500-7133640 0	8099 05	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	2.28	83	99 0	20m
32 500-7133650 0	8099 06	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	1.43	83	95 0	
32 500-7133660 0	8099 07	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	1.70	83	94 0	
32 500-7133670 0	8099 08	1971	KENDRA	DNT	CAN	49 45	94 36	365 8	S	2.08	83	69 5	
32 500-7133700 0	8100 01	1971	RAINY LAKE	DNT	CAN	48 42	93 03	335 8	S	2.00	83	35 0	
32 500-7133710 0	8100 02	1971	RAINY LAKE	DNT	CAN	48 42	93 03	335 8	S	2.12	83	68 5	
32 500-7133720 0	8100 03	1971	RAINY LAKE	DNT	CAN	48 42	93 03	335 8	S	1.86	83	37 5	
32 500-7133730 0	8100 04	1971	RAINY LAKE	DNT	CAN	48 42	93 03	335 8	S	2.93	83	98 5	
32 500-7133750 0	8106 03	1971	CAMP ROBINSON	DNT	CAN	50 10	93 15	365 8	S	2.75	83	67 5	32cm, 18m, 80y
32 500-7133850 0	8107 01	1971	STOIX LOOKOUT	DNT	CAN	50 07	91 50	381 8	S	2.57	83	51 0	26cm, 16m
32 500-7133910 0	8108 01	1971	EAR FALLS	DNT	CAN	50 40	93 12	365 8	S	2.27	83	64 0	26cm, 16m
32 500-7133920 0	8108 02	1971	EAR FALLS	DNT	CAN	50 40	93 12	365 8	S	2.32	83	91 5	29cm, 17m, 64y
32 500-7133930 0	8108 03	1971	EAR FALLS	DNT	CAN	51 02	93 48	365 8	S	2.35	83	91 0	24cm, 16m
32 500-7134050 0	8109 05	1971	RED LAKE	DNT	CAN	49 30	89 03	274 8	S	1.79	83	97 5	21m, 50+m
32 500-7134100 0	8057 01	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274 8	S	2.49	83	73 5	
32 500-7134110 0	8057 02	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274 8	S	2.25	83	93 5	
32 500-7134120 0	8057 03	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274 8	S	2.10	83	94 0	
32 500-7134130 0	8057 04	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274 8	S	2.25	83	96 0	
32 500-7134140 0	8057 05	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274 8	S				

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-7134150 0	8057 06	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274	S	1.72	83	95 0	
32 500-7134160 0	8057 07	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274	S	2.05	83	95 5	
32 500-7134170 0	8057 08	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274	S	2.25	83	94 0	
32 500-7134180 0	8057 09	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274	S	1.73	83	94 0	
32 500-7134190 0	8057 10	1971	BLACK STURGEON LAKE	DNT	CAN	49 30	89 03	274	S	1.77	83	82 0	
32 500-7135330 0	8046 01	1971	CLUTE TOWNSHIP	DNT	CAN	49 05	81 15	289	N/A	2.25	83	67 5	
32 500-7136210 0	1971	REEVES TWP., FOLEYET	DNT	CAN	48 15	82 00			N/A	1.94	83	80 0	
32 500-7151000 0	8134 01	1971	CANDLE LAKE	SASK	CAN	53 55	104 50	502	S	2.28	83	75 0	20-24m, 70-100y
32 500-7151010 0	8135 00	1971	MEADOW LAKE	SASK	CAN	53 50	108 40	640	B	2.13	83	82 5	17-20m, 50-70y
32 500-7230710 0	1972	PETAHAWA NAT. FOR	INST	CAN	46 00	77 20	182	S	2.82	83	99 5		
32 500-7230730 0	1972	PETAHAWA NAT. FOR	INST	CAN	46 00	77 20	182	S	2.35	83	50 5		
32 500-7230770 0	1972	SAND L. ROAD	DNT	CAN	45 50	77 20	182	S	2.77	83	93 0		
32 500-7230780 0	1972	PETAHAWA NAT. FOR	INST	CAN	45 50	77 20	182	S	3.64	83	58 5		
32 500-7230790 0	1972	PETAHAWA NAT. FOR	INST	CAN	45 50	77 20	182	S	2.59	83	96 5		
32 500-7230800 0	1972	SAND L. ROAD	DNT	CAN	45 50	77 20	182	S	2.52	83	92 5		
32 500-7230810 0	1972	SAND L. ROAD	DNT	CAN	46 00	77 20	182	S	2.98	83	88 0	30cm, 9m	
32 500-7230820 0	1972	PETAHAWA NAT. FOR	INST	CAN	46 00	77 20	182	S	3.45	83	100 0		
32 500-7230830 0	1972	BEACHBURG	DNT	CAN	45 45	76 50	137	N/A	3.02	83	95 5		
32 500-7230850 0	1972	BEACHBURG	DNT	CAN	45 45	76 50	137	S	2.93	83	90 0	25cm, 12m	
32 500-7230860 0	1972	BEACHBURG	DNT	CAN	45 45	76 50	137	S	2.41	83	85 0	48cm, 18m	
32 500-7230870 0	1972	PETAHAWA NAT. FOR	INST	CAN	46 00	77 20	182	B	2.89	83	82 5	15-20cm, 9-12m	
32 500-7230880 0	1972	PETAHAWA NAT. FOR	INST	CAN	46 00	77 20	182	S	2.76	83	96 5	53cm, 12m	
32 500-7230890 0	8319 01	1972	DAVIS MILLS	DNT	CAN	45 45	77 15	152	S	2.83	83	86 0	53cm, 20m
32 500-7230900 0	1972	BIGGAR LAKE	DNT	CAN	45 52	77 30	243	S	2.78	83	64 5		
32 500-7230970 0	1972	BEACHBURG	DNT	CAN	45 45	77 10	152	S	3.22	83	90 5	25cm, 9m	
32 500-7231050 0	8029 06	1972	RANKIN	DNT	CAN	45 45	77 10	152	S	2.71	83	85 0	
32 500-7231140 0	8027 04	1972	IRVINE CREEK	DNT	CAN	45 00	77 17	300	S	3.32	83	86 5	
32 500-7231160 0	8027 06	1972	IRVINE CREEK	DNT	CAN	45 00	77 17	300	S	2.69	83	92 5	
32 500-7231230 0	8027 13	1972	IRVINE CREEK	DNT	CAN	45 00	77 17	300	B131	2.02	83	96 5	
32 500-7231270 0	1972	APSELY	DNT	CAN	44 45	78 08	365	N/A	2.05	83	83 5		
32 500-7232640 0	8021 07	1972	MAIRN TOWNSHIP	DNT	CAN	46 30	81 41	243	S	2.07	83	85 0	
32 500-7330600 0	8110 03	1973	NEEDLE LAKE	DNT	CAN	49 57	92 31	396	S	2.14	83	53 0	
32 500-7330650 0	8068 06	1973	UPSALA	DNT	CAN	49 04	90 31	487	S	2.22	83	55 0	
32 500-7330670 0	8068 08	1973	UPSALA	DNT	CAN	49 04	90 31	487	S	2.15	83	33 0	
32 500-7330680 0	8068 09	1973	UPSALA	DNT	CAN	49 04	90 31	487	S	1.97	83	43 0	
32 500-7331060 0	8113 03	1973	UCHI LAKE	DNT	CAN	50 48	93 08	381	S	2.18	83	79 0	
32 500-7333330 0	8114 00	1973	EAF FALLS	DNT	CAN	50 42	93 22	381	B	2.16	83	81 0	
32 500-7333340 0	8115 00	1973	RED LAKE, DOME TWP.	DNT	CAN	51 06	93 46	396	B	2.40	83	95 0	
32 500-7333350 0	8102 00	1973	WHITE DDD FALLS	DNT	CAN	50 07	94 52	350	S	2.11	83	98 0	
32 500-7341270 0	8131 00	1973	BERNIC L.	MAN	CAN	50 25	95 36	274	B	2.14	84	86 5	46cm, 14m
32 500-7341280 0	8128 00	1973	ANGLE INLET	MAN	CAN	49 19	95 20	335	B	2.11	83	98 0	34cm, 14m
32 500-7341290 0	8129 00	1973	WEST HAHK L.	MAN	CAN	49 47	95 15	335	B	2.14	84	86 5	38cm, 15m
32 500-7430410 0	8024 02	1974	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	160	S	3.35	85	94 4	42cm, 20m
32 500-7430420 0	8024 03	1974	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	160	S	2.58	85	93 0	39cm, 12m
32 500-7430430 0	8024 04	1974	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	160	S	2.57	85	95 0	46cm, 22m
32 500-7430450 0	8024 06	1974	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	160	S	2.00	85	99 5	32cm, 15m
32 500-7430450 0	8024 07	1974	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	160	S	2.47	85	98 5	41cm, 17m
32 500-7430450 0	8024 11	1974	PETAHAWA NAT. FOR	INST	CAN	45 58	77 24	160	S	2.66	84	94 5	43cm, 15m
32 500-7430500 0	8024 11	1974	PETAHAWA NAT. FOR	INST	CAN	46 00	77 26	160	S	1.91	84	96 0	27cm, 14m
32 500-7430540 0	8155 01	1974	DOUGLAS	DNT	CAN	45 30	77 01	121	S	1.93	83	44 0	33cm, 17m
32 500-7430570 0	8155 04	1974	DOUGLAS	DNT	CAN	45 30	77 01	121	S	2.57	85	95 0	47cm, 21m
32 500-7430580 0	8155 05	1974	DOUGLAS	DNT	CAN	45 30	77 01	121	S	2.00	85	99 5	
32 500-7430590 0	8155 06	1974	DOUGLAS	DNT	CAN	45 33	77 00	121	S	2.47	85	98 5	
32 500-7430600 0	8155 07	1974	DOUGLAS	DNT	CAN	45 33	77 00	121	S	2.66	84	94 5	
32 500-7430610 0	8155 08	1974	DOUGLAS	DNT	CAN	45 33	77 00	121	S	1.91	84	96 0	
32 500-7430630 0	8155 10	1974	DOUGLAS	DNT	CAN	45 33	77 00	121	S	2.43	83	94 0	
32 500-7430630 0	8155 10	1974	DOUGLAS	DNT	CAN	45 33	77 00	121	S	2.87	83	36 0	

SEED LIST/LISTE DES SÉANCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV CTRY	LAT	LONG	ELEV COLL (m)	COLL TYPE	SEED WEIGHT	YEAR TSTD	%	REMARKS
32 500-7430660 0	8155 13	1974	DOUGLAS	ONT CAN	45 38	77 04	152	S	2.64	83	94 0	37cm, 12m
32 500-7430710 0	8028 05	1974	RENFREW	ONT CAN	45 28	76 44	121	S	2.31	85	74 5	22cm, 9m
32 500-7430750 0	8028 09	1974	RENFREW	ONT CAN	45 28	76 44	121	S	2.39	85	94 0	36cm, 10m
32 500-7430790 0	8028 13	1974	RENFREW	ONT CAN	45 28	76 44	121	S	2.79	83	98 0	22cm, 11m
32 500-7430830 0	8028 15	1974	RENFREW	ONT CAN	45 28	76 44	121	S	3.34	83	94 0	24cm, 11m
32 500-7430870 0	8032 01	1974	ANTRIM	ONT CAN	45 19	76 11	121	S	2.59	83	97 0	27cm, 9m
32 500-7430910 0	8032 03	1974	ANTRIM	ONT CAN	45 19	76 11	121	S	2.11	85	90 5	41cm, 12m
32 500-7430950 0	8032 05	1974	ANTRIM	ONT CAN	45 19	76 11	121	S	2.73	85	73 1	38cm, 12m
32 500-7430990 0	8025 01	1974	BANCROFT	ONT CAN	45 06	77 98	361	S	2.25	85	84 0	25cm, 9m
32 500-7431030 0	8025 02	1974	BANCROFT	ONT CAN	45 06	77 98	361	S	1.74	83	82 0	28cm, 14m
32 500-7431070 0	8025 04	1974	BANCROFT	ONT CAN	45 06	77 58	361	S	1.83	85	94 0	35cm, 15m
32 500-7431110 0	8025 05	1974	BANCROFT	ONT CAN	45 06	78 02	396	S	1.95	85	89 0	44cm, 27m
32 500-7431150 0	8025 07	1974	BANCROFT	ONT CAN	45 06	78 02	396	S	1.87	84	94 5	48cm, 24m
32 500-7431190 0	8025 08	1974	BANCROFT	ONT CAN	45 06	78 02	396	S	1.77	85	94 0	45cm, 30m
32 500-7431230 0	8025 09	1974	BANCROFT	ONT CAN	45 06	78 02	396	S	2.57	84	90 0	41cm, 23m
32 500-7431270 0	8025 10	1974	BANCROFT	ONT CAN	45 06	78 02	396	S	3.22	85	96 5	51cm, 24m
32 500-7431310 0	8211 01	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.80	85	92 0	53cm, 15m
32 500-7431350 0	8211 02	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.35	85	83 0	34cm, 17m
32 500-7431390 0	8211 03	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.35	85	83 0	34cm, 17m
32 500-7431430 0	8211 04	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.15	75	69 5	56cm, 18m
32 500-7431470 0	8211 05	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.29	85	98 0	32cm, 21m
32 500-7431510 0	8211 06	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.31	83	86 0	42cm, 20m
32 500-7431550 0	8211 07	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.35	83	90 0	49cm, 17m
32 500-7431590 0	8211 08	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.98	83	96 0	39cm, 20m
32 500-7431630 0	8211 09	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.18	85	75 5	30cm, 20m
32 500-7431670 0	8211 10	1974	APSLEY, ANSTROTHER TWP	ONT CAN	44 55	78 04	365	S	2.59	85	75 5	30cm, 20m
32 500-7431710 0	8210 02	1974	SILVER LAKE	ONT CAN	44 49	76 41	182	S	2.64	85	96 5	39cm, 18m
32 500-7431750 0	8210 00	1974	SILVER LAKE	ONT CAN	44 49	76 41	182	S	2.06	85	92 5	32cm, 10m
32 500-7431790 0	8210 00	1974	SILVER LAKE	ONT CAN	44 49	76 41	182	S	2.57	83	96 0	28cm, 12m
32 500-7431830 0	8210 00	1974	SILVER LAKE	ONT CAN	44 49	76 41	182	B(10)	2.20	85	89 5	9-18m
32 500-7431870 0	8015 47	1974	WHITNEY	ONT CAN	44 49	76 41	182	S	2.71	83	99 0	26cm, 17m
32 500-7431910 0	8015 01	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.17	85	98 0	54cm, 20m
32 500-7431950 0	8015 03	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.73	85	68 5	37cm, 20m
32 500-7431990 0	8015 04	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.22	85	95 5	48cm, 19m
32 500-7432030 0	8015 05	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.94	85	91 0	45cm, 20m
32 500-7432070 0	8015 06	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.15	85	97 5	35cm, 15m
32 500-7432110 0	8015 07	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.33	83	98 0	38cm, 17m
32 500-7432150 0	8015 08	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.34	85	98 5	32cm, 17m
32 500-7432190 0	8015 09	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.63	85	95 5	34cm, 17m
32 500-7432230 0	8015 09	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.97	85	100 0	26cm, 9m
32 500-7432270 0	8015 10	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.67	83	98 0	50cm, 14m
32 500-7432310 0	8015 11	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.17	85	96 5	38cm, 18m
32 500-7432350 0	8015 12	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.09	83	100 0	33cm, 18m
32 500-7432390 0	8015 13	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.77	85	94 5	37cm, 15m
32 500-7432430 0	8015 14	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.42	83	94 0	37cm, 15m
32 500-7432470 0	8015 15	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.00	85	94 0	30cm, 15m
32 500-7432510 0	8015 16	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.31	83	100 0	38cm, 20m
32 500-7432550 0	8015 17	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.94	85	97 0	45cm, 24m
32 500-7432590 0	8015 18	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.41	83	100 0	40cm, 18m
32 500-7432630 0	8015 19	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.59	85	84 5	42cm, 20m
32 500-7432670 0	8015 20	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.99	85	93 0	36cm, 20m
32 500-7432710 0	8015 21	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.73	83	97 0	25cm, 17m
32 500-7432750 0	8015 22	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	2.53	85	99 5	41cm, 17m
32 500-7432790 0	8015 24	1974	WHITNEY	ONT CAN	45 32	78 16	396	S	1.96	85	46 5	40cm, 17m

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PRDV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-7431520 0	8015 25	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.25	85	96.0	40cm, 20m
32 500-7431530 0	8015 26	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.28	83	100.0	30cm, 17m
32 500-7431540 0	8015 27	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.76	85	96.5	40cm, 18m
32 500-7431550 0	8015 28	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.29	83	98.0	43cm, 17m
32 500-7431560 0	8015 29	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	3.43	83	100.0	48cm, 20m
32 500-7431570 0	8015 30	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.72	83	100.0	51cm, 18m
32 500-7431580 0	8015 31	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.22	85	93.0	61cm, 20m
32 500-7431590 0	8015 32	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	1.94	85	84.5	
32 500-7431600 0	8015 33	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.34	85	96.0	
32 500-7431610 0	8015 34	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.18	83	100.0	30cm, 11m
32 500-7431620 0	8015 35	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.20	85	87.9	29cm, 14m
32 500-7431630 0	8015 36	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.02	83	100.0	41cm, 17m
32 500-7431640 0	8015 37	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.32	85	98.0	23cm, 14m
32 500-7431650 0	8015 38	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	1.86	83	100.0	46cm, 18m
32 500-7431660 0	8015 39	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.15	85	94.5	37cm, 21m
32 500-7431670 0	8015 40	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.19	83	100.0	33cm, 18m
32 500-7431680 0	8015 41	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.37	83	100.0	29cm, 15m
32 500-7431690 0	8015 42	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.90	85	92.5	38cm, 17m
32 500-7431700 0	8015 43	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.98	83	100.0	29cm, 17m
32 500-7431710 0	8015 44	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.90	85	92.5	38cm, 17m
32 500-7431720 0	8015 45	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	1.98	83	100.0	46cm, 17m
32 500-7431730 0	8015 46	1974	WHITNEY	DNT	CAN	45 32	78 16	396	S	2.21	85	93.5	43cm, 17m
32 500-7431860 0	8026 13	1974	BEACHBURG	DNT	CAN	45 44	76 51	152	S	2.31	83	100.0	51cm, 20m
32 500-7431910 0	8024 16	1974	PETAWAMA NAT	INST	CAN	45 59	77 27	182	S	3.72	85	97.0	27cm, 8m
32 500-7431930 0	8024 18	1974	PETAWAMA NAT	FOR	CAN	45 58	77 25	160	S	2.38	85	75.5	24cm, 12m
32 500-7431950 0	8024 20	1974	PETAWAMA NAT	FOR	CAN	45 58	77 25	160	S	2.13	85	91.4	56cm, 21m
32 500-7431960 0	8024 21	1974	PETAWAMA NAT	FOR	CAN	45 58	77 25	160	S	1.94	85	92.5	31cm, 15m
32 500-7431970 0	8024 22	1974	PETAWAMA NAT	FOR	CAN	45 58	77 25	160	S	2.33	85	78.0	56cm, 17m
32 500-7431980 0	8024 23	1974	PETAWAMA NAT	FOR	CAN	45 58	77 25	160	S	1.90	85	85.3	46cm, 14m
32 500-7431990 0	8024 24	1974	PETAWAMA NAT	FOR	CAN	45 58	77 25	160	S	2.22	83	93.0	36cm, 16m
32 500-7434280 0		1974	SWASTIKA, BURT TWP	INST	CAN	48 01	80 20	300	S	2.59	85	95.5	33cm, 20m
32 500-7434290 0		1974	GEORGIAN BAY	DNT	CAN	46 14	80 43	213	N/A	2.10	83	82.0	
32 500-7434320 0		1974	SERVOS TOWNSHIP	DNT	CAN	46 14	80 43	213	N/A	2.60	83	87.0	
32 500-7434420 0	8049 02	1974	CLUTE TOWNSHIP	DNT	CAN	49 10	81 14	289	N/A	1.91	83	84.0	
32 500-7434480 0	8049 08	1974	CLUTE TOWNSHIP	DNT	CAN	49 10	81 14	269	N/A	2.32	83	99.0	
32 500-7434950 0		1974	PETAWAMA NAT	FOR	CAN	46 00	77 20	182	S	3.08	83	91.0	
32 500-7435490 0	8050 00	1974	WHITE RIVER	DNT	CAN	48 33	85 12	450	S	2.17	83	58.0	ST 1866 X 1865
32 500-7435550 0	8017 02	1974	MCKELLAR	DNT	CAN	45 35	79 52	275	S	2.59	83	79.0	
32 500-7435570 0	8017 03	1974	MCKELLAR	DNT	CAN	45 35	79 52	275	S	1.94	83	87.0	
32 500-7435630 0	8239 00	1974	DORSET	DNT	CAN	45 16	78 58	335	S	2.35	83	84.0	
32 500-7435690 0	8239 03	1974	DORSET	DNT	CAN	45 16	78 58	335	S	2.83	83	69.0	
32 500-7435700 0	8239 04	1974	DORSET	DNT	CAN	45 16	78 58	335	S	2.35	83	95.0	
32 500-7435750 0	8031 02	1974	MATTAPAN TOWNSHIP	DNT	CAN	46 23	78 54	305	S	1.88	83	49.0	
32 500-7435840 0	8038 02	1974	ENGLEHART	DNT	CAN	47 52	79 55	215	S	2.79	83	44.0	
32 500-7435850 0	8038 03	1974	ENGLEHART	DNT	CAN	47 52	79 55	215	S	2.59	84	33.5	
32 500-7435870 0	8038 04	1974	ENGLEHART	DNT	CAN	47 52	79 55	215	S	2.13	83	73.0	
32 500-7435890 0	8038 05	1974	ENGLEHART	DNT	CAN	47 52	79 55	215	S	1.90	83	61.0	
32 500-7435900 0	8038 06	1974	ENGLEHART	DNT	CAN	47 52	79 55	215	S	2.02	83	71.0	
32 500-7435910 0	8038 07	1974	ENGLEHART	DNT	CAN	47 52	79 55	215	S	2.35	83	89.0	
32 500-7435920 0	8235 00	1974	DENTON TOWNSHIP	DNT	CAN	48 19	81 46	305	S	2.59	83	69.0	
32 500-7436010 0		1974	SOUTH RIVER	DNT	CAN	45 54	79 23	365	S	1.85	83	77.0	
32 500-7436050 0		1974	SOUTH RIVER	DNT	CAN	45 54	79 23	365	S	2.53	83	94.0	
32 500-7436070 0		1974	SOUTH RIVER	DNT	CAN	45 54	79 23	365	S	2.50	83	98.0	
32 500-7436100 0		1974	SOUTH RIVER	DNT	CAN	45 54	79 23	365	S	2.31	83	87.0	
										2.34	83	53.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TBTD	% GERM	REMARKS
32 500-7436210 0	8156 04	1974	SHANNONVILLE	DNT	CAN	44 14	77 15	90	N/A	1.72	83	79.0	
32 500-7436250 0	8013 02	1974	POLAND	DNT	CAN	45 03	76 35	245	B	2.75	83	85.0	
32 500-7436280 0	8013 04	1974	POLAND	DNT	CAN	45 03	76 35	245	S	2.25	83	71.0	
32 500-7436290 0	8013 05	1974	POLAND	DNT	CAN	45 03	76 35	245	S	2.24	84	60.0	
32 500-7436300 0	8013 06	1974	POLAND	DNT	CAN	45 03	76 35	245	S	1.92	83	91.0	
32 500-7436330 0	8209 01	1974	MARLBOROUGH TOWNSHIP	DNT	CAN	45 02	75 50	90	S	2.82	83	37.0	
32 500-7436340 0	8209 02	1974	MARLBOROUGH TOWNSHIP	DNT	CAN	45 02	75 50	90	S	1.80	83	54.0	
32 500-7436380 0	8209 04	1974	MARLBOROUGH TOWNSHIP	DNT	CAN	45 02	75 50	90	S	2.67	83	57.0	
32 500-7436390 0	8011 01	1974	HAVELOCK	DNT	CAN	44 26	77 50	180	N/A	2.67	84	54.0	
32 500-7436430 0	8044 09	1974	SHASTIKA, BURT TWP	DNT	CAN	48 02	80 22	300	S	2.24	83	77.0	
32 500-7466950 0	8142 00	1974	FOOTNER LAKE	ALTA	CAN	57 55	115 30	460	B	2.32	83	86.0	
32 500-7466960 0	8316 00	1974	SLAVE LAKE FOREST	ALTA	CAN	56 38	114 35	730	B	2.05	83	40.0	
32 500-7477170 0	8227 00	1974	CANYON LAKE	BC	CAN	53 01	123 12	1280	B	1.89	83	39.0	
32 500-7477190 0	8228 00	1974	STRATHNAVER	BC	CAN	53 18	122 12	1198	B	2.04	84	21.5	
32 500-7477200 0	8229 00	1974	UNITI CR	BC	CAN	53 08	122 03	945	D	1.87	83	69.0	
32 500-7477200 0	8230 00	1974	WILLIAMSON CR.	BC	CAN	49 17	118 53	671	B	2.18	83	61.0	
32 500-7477220 0	8232 00	1974	GREYBACK MTN	BC	CAN	49 36	119 17	1585	B	1.76	83	50.0	
32 500-7531530 0	8067 02	1975	MANITOUWADGE, STRUTHEM	DNT	CAN	48 43	85 52	335	S	3.41	83	100.0	
32 500-7531530 0	8067 03	1975	MANITOUWADGE, STRUTHEM	DNT	CAN	48 43	85 52	335	S	2.39	83	100.0	
32 500-7531530 0	8067 07	1975	MANITOUWADGE, STRUTHEM	DNT	CAN	48 43	85 52	335	S	2.66	85	93.0	
32 500-7531570 0	8066 02	1975	MANITOUWADGE	DNT	CAN	49 17	85 58	305	S	2.06	83	85.0	
32 500-7531620 0	8066 03	1975	MANITOUWADGE	DNT	CAN	49 17	85 58	305	S	2.03	84	92.5	
32 500-7531630 0	8066 08	1975	MANITOUWADGE	DNT	CAN	49 17	85 58	305	S	2.03	83	90.0	
32 500-7531680 0	8066 10	1975	MANITOUWADGE	DNT	CAN	49 17	85 58	305	S	2.84	83	94.0	
32 500-7531700 0	8065 03	1975	MANITOUWADGE	DNT	CAN	49 17	85 54	260	S	2.09	83	98.0	
32 500-7531760 0	8085 06	1975	MANITOUWADGE	DNT	CAN	49 17	85 54	260	S	3.40	83	97.0	
32 500-7531800 0	8085 10	1975	MANITOUWADGE	DNT	CAN	49 17	85 54	260	S	2.19	83	99.0	
32 500-7531810 0	8061 01	1975	CARAMAT	DNT	CAN	49 36	86 09	305	B	1.92	83	100.0	
32 500-7531820 0	8061 02	1975	CARAMAT	DNT	CAN	49 36	86 09	305	B	2.08	84	97.5	
32 500-7531830 0	8061 03	1975	CARAMAT	DNT	CAN	49 36	86 09	305	S	1.66	84	95.5	
32 500-7531840 0	8061 04	1975	CARAMAT	DNT	CAN	49 36	86 09	305	S	2.58	83	88.0	
32 500-7531880 0	8061 08	1975	CARAMAT	DNT	CAN	49 36	86 09	305	S	2.92	83	96.0	
32 500-7531890 0	8061 09	1975	CARAMAT	DNT	CAN	49 36	86 09	305	S	2.20	85	90.5	
32 500-7531970 0	8032 07	1975	WHITE RIVER	DNT	CAN	48 37	85 19	305	S	2.47	83	96.0	
32 500-7532030 0	8031 03	1975	ROBERT	DNT	CAN	48 42	85 35	305	S	2.48	83	69.0	
32 500-7532050 0	8031 06	1975	ROBERT	DNT	CAN	48 42	85 35	305	S	2.11	83	99.0	
32 500-7532090 0	8031 09	1975	ROBERT	DNT	CAN	48 42	85 35	305	S	2.52	84	97.5	
32 500-7532110 0	8064 01	1975	TERRACE BAY	DNT	CAN	48 47	87 07	200	S	2.30	83	95.0	
32 500-7532120 0	8064 02	1975	TERRACE BAY	DNT	CAN	48 47	87 07	200	S	2.38	83	52.0	
32 500-7532150 0	8064 05	1975	TERRACE BAY	DNT	CAN	48 47	87 07	200	S	2.23	84	89.0	
32 500-7532180 0	8064 08	1975	TERRACE BAY	DNT	CAN	48 47	87 07	200	S	1.93	83	100.0	
32 500-7532200 0	8064 10	1975	TERRACE BAY	DNT	CAN	48 47	87 07	200	S	3.10	83	91.0	
32 500-7532290 0	8081 09	1975	FALSE CREEK	DNT	CAN	49 52	86 52	365	S	2.05	83	90.0	
32 500-7532300 0	8081 10	1975	FALSE CREEK	DNT	CAN	49 52	86 52	365	S	2.20	83	100.0	
32 500-7532330 0	8062 03	1975	GREER ROAD	DNT	CAN	49 56	87 07	305	S	2.10	83	100.0	
32 500-7532380 0	8062 08	1975	GREER ROAD	DNT	CAN	49 56	87 07	305	S	1.87	83	97.0	
32 500-7532400 0	8062 09	1975	GREER ROAD	DNT	CAN	49 56	87 07	305	S	2.37	83	99.0	
32 500-7532420 0	8082 02	1975	BEARDMORE	DNT	CAN	49 53	88 00	365	S	2.17	83	100.0	
32 500-7532430 0	8082 03	1975	BEARDMORE	DNT	CAN	49 53	88 00	365	S	2.58	84	74.5	
32 500-7532490 0	8082 09	1975	BEARDMORE	DNT	CAN	49 53	88 00	365	S	1.88	83	100.0	
32 500-7532510 0	8060 01	1975	WANEIG LAKE	DNT	CAN	50 09	89 07	305	B	1.60	83	98.0	
32 500-7532520 0	8060 02	1975	WANEIG LAKE	DNT	CAN	50 09	89 07	305	S	1.96	83	98.0	
32 500-7532540 0	8060 04	1975	WANEIG LAKE	DNT	CAN	50 09	89 07	305	S	1.80	83	96.0	
32 500-7532550 0	8060 05	1975	WANEIG LAKE	DNT	CAN	50 09	89 07	305	S	2.28	83	98.0	

12-30m, 40-100y

25-36cm, 18-21m

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (M)	COLL T/PE	SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-7532570 0	8060 07	1975	WAMEIG LAKE	ONT	CAN	50 09	89 07	305	S	1 97	83	100 0	
32 500-7532590 0	8060 09	1975	WAMEIG LAKE	ONT	CAN	50 09	89 07	305	S	1 50	83	94 0	
32 500-7532600 0	8060 10	1975	WAMEIG LAKE	ONT	CAN	50 09	89 07	305	S	2 24	83	98 0	
32 500-7532610 0	8083 01	1975	KENOGAMI RIVER	ONT	CAN	49 55	86 29	305	S	1 94	83	98 0	9m
32 500-7532630 0	8083 03	1975	KENOGAMI RIVER	ONT	CAN	49 55	86 29	305	S	2 57	83	100 0	
32 500-7532650 0	8083 05	1975	KENOGAMI RIVER	ONT	CAN	49 55	86 29	305	S	1 83	83	100 0	
32 500-7532660 0	8083 06	1975	KENOGAMI RIVER	ONT	CAN	49 55	86 29	305	S	2 18	84	92 0	
32 500-7532670 0	8083 07	1975	KENOGAMI RIVER	ONT	CAN	49 55	86 29	305	S	2 04	84	95 5	
32 500-7532680 0	8083 08	1975	KENOGAMI RIVER	ONT	CAN	49 55	86 29	305	S	2 41	83	97 0	
32 500-7532730 0	8063 03	1975	PIC RIVER	ONT	CAN	48 42	86 15	240	S	2 86	85	92 5	
32 500-7532780 0	8063 08	1975	PIC RIVER	ONT	CAN	48 42	86 15	240	S	1 88	83	95 0	
32 500-7532820 0	8093 02	1975	MCKENZIE	ONT	CAN	48 33	88 58	275	S	1 90	85	36 0	
32 500-7533160 0	8069 08	1975	THIST LAKE	ONT	CAN	49 22	89 45	425	S	2 02	83	35 0	
32 500-7533180 0	8069 10	1975	THIST LAKE	ONT	CAN	49 22	89 45	425	S	2 19	84	89 5	
32 500-7533400 0	8065 03	1975	O'SULLIVAN LAKE	ONT	CAN	50 32	87 01	335	S	1 85	84	33 5	
32 500-7533410 0	8065 04	1975	O'SULLIVAN LAKE	ONT	CAN	50 32	87 01	335	S	1 95	84	59 0	
32 500-7533470 0	8076 01	1975	LONG LAKE	ONT	CAN	49 13	87 04	335	S	2 46	83	75 0	
32 500-7533500 0	8076 04	1975	LONG LAKE	ONT	CAN	49 13	87 04	335	S	2 82	83	80 0	
32 500-7533510 0	8076 05	1975	LONG LAKE	ONT	CAN	49 13	87 04	335	S	2 06	83	66 0	
32 500-7533520 0	8076 06	1975	LONG LAKE	ONT	CAN	49 13	87 04	335	S	2 10	83	70 0	
32 500-7533750 0	8047 19	1975	ARNOTT TOWNSHIP	ONT	CAN	49 37	84 35	275	S	2 82	83	85 0	
32 500-7533850 0	8075 10	1975	NAKINA	ONT	CAN	50 12	86 47	335	S	2 18	83	45 0	
32 500-7533920 0	8240 05	1975	PARKS LAKE	ONT	CAN	49 28	87 34	460	S	3 06	83	90 0	
32 500-7533950 0	8240 08	1975	PARKS LAKE	ONT	CAN	49 28	87 34	460	S	1 86	83	83 0	
32 500-7534070 0	8084 09	1975	SHABAQUA CORNERS	ONT	CAN	48 37	89 54	410	S	2 64	83	91 0	
32 500-7534130 0	8077 05	1975	ONAMHAN RIVER	ONT	CAN	50 02	87 39	305	S	2 30	84	46 0	
32 500-7534160 0	8077 08	1975	ONAMHAN RIVER	ONT	CAN	50 02	87 39	305	S	2 02	83	60 0	
32 500-7534180 0	8077 10	1975	ONAMHAN RIVER	ONT	CAN	50 02	87 39	305	S	1 93	83	74 0	
32 500-7534190 0	8043 01	1975	PAGMA	ONT	CAN	49 46	85 25	245	S	2 51	83	86 0	
32 500-7534210 0	8043 03	1975	PAGMA	ONT	CAN	49 46	85 25	245	S	2 48	83	91 0	
32 500-7534240 0	8043 06	1975	PAGMA	ONT	CAN	49 46	85 25	245	S	2 41	83	84 0	
32 500-7534260 0	8043 08	1975	PAGMA	ONT	CAN	49 46	85 25	245	S	2 32	83	85 0	
32 500-7534280 0	8043 10	1975	PAGMA	ONT	CAN	49 46	85 25	245	S	2 44	84	65 0	
32 500-7534290 0	8079 01	1975	JELLCODE	ONT	CAN	49 42	87 25	265	S	2 41	83	89 0	
32 500-7534310 0	8079 03	1975	JELLCODE	ONT	CAN	49 42	87 25	265	S	1 91	84	81 5	
32 500-7534350 0	8079 07	1975	JELLCODE	ONT	CAN	49 42	87 25	265	S	2 11	83	65 0	
32 500-7534370 0	8079 09	1975	JELLCODE	ONT	CAN	49 42	87 25	265	S	2 26	83	87 0	
32 500-7534450 0	8078 07	1975	AUDEN	ONT	CAN	50 09	87 53	335	S	1 90	83	52 0	
32 500-7534580 0	8090 00	1975	THUNDER BAY, BLAKE TWP	ONT	CAN	48 13	89 24	305	B	2 16	83	71 0	
32 500-7534590 0	8073 00	1975	THUNDER BAY MACMASTER TP	ONT	CAN	48 58	88 37	305	B	2 07	83	99 0	
32 500-7534620 0	8072 00	1975	THUNDER BAY, DGG RIVER	ONT	CAN	49 23	89 45	425	B	1 81	83	98 0	
32 500-7534630 0	8092 00	1975	GRAHAM	ONT	CAN	49 15	90 35	490	B	1 69	83	91 0	
32 500-7534640 0	8322 00	1975	THUNDER BAY	ONT	CAN	49 05	89 11	455	B	2 02	83	88 0	
32 500-7561460 0	8141 00	1975	ATHABASCA FOR.	ALTA	CAN	57 08	111 38	275	B	2 04	85	38 0	
32 500-7614220 0	8204 00	1976	PINEVALE	NS	CAN	45 29	41 58	150	N/A	2 39	85	47 5	
32 500-7614240 0	8206 00	1976	MCGRATH'S MTN.	NS	CAN	45 32	62 21	150	N/A	2 50	85	47 5	* 1 OR 2 TREES 25cm, 12m, 25y
32 500-7630720 0		1976	PETANAMA NAT. FOR	ONT	CAN	46 00	77 26	160	*	2 63	85	84 5	
32 500-7631090 0	8161 09	1976	ALICE	ONT	CAN	45 46	77 17	150	S	2 14	85	97 5	
32 500-7631110 0	8161 11	1976	ALICE	ONT	CAN	45 46	77 17	150	S	2 52	85	93 0	
32 500-7632000 0	8163 01	1976	LORRAINE TOWNSHIP	ONT	CAN	47 15	79 31	240	S	3 30	85	78 5	
32 500-7632200 0	8165 01	1976	PECK TOWNSHIP	ONT	CAN	45 29	78 45	460	S	2 57	85	88 5	
32 500-7632230 0	8165 04	1976	PECK TOWNSHIP	ONT	CAN	45 29	78 45	460	S	2 28	85	32 0	
32 500-7632240 0	8165 05	1976	PECK TOWNSHIP	ONT	CAN	45 29	78 45	460	S	3 22	85	51 0	
32 500-7632400 0	8167 01	1976	ARMOUR TOWNSHIP	ONT	CAN	45 37	79 25	300	S	2 09	85	71 0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-7632410 0	8167 00	1976	ARMOUR TOWNSHIP	ONT	CAN	45 37	79 25	300	S	2.85	85	97.0	
32 500-7632490 0	8167 10	1976	ARMOUR TOWNSHIP	ONT	CAN	45 37	79 25	300	S	2.06	85	90.0	
32 500-7632510 0	8168 02	1976	CHISHOLM TOWNSHIP	ONT	CAN	46 08	79 16	275	S	3.62	85	98.0	
32 500-7632560 0	8168 07	1976	CHISHOLM TOWNSHIP	ONT	CAN	46 08	79 14	275	S	2.65	85	95.5	
32 500-7632570 0	8168 08	1976	CHISHOLM TOWNSHIP	ONT	CAN	46 08	79 16	275	S	3.17	85	87.5	
32 500-7632590 0	8168 10	1976	CHISHOLM TOWNSHIP	ONT	CAN	46 08	79 16	275	S	2.96	85	89.4	
32 500-7632650 0	8157 06	1976	MATTAPAN TOWNSHIP	ONT	CAN	46 23	78 54	305	S	2.11	85	31.0	
32 500-7632680 0	8157 09	1976	MATTAPAN TOWNSHIP	ONT	CAN	46 23	78 54	305	S	2.06	85	88.5	
32 500-7632690 0	8157 10	1976	MATTAPAN TOWNSHIP	ONT	CAN	46 23	78 54	305	S	2.34	85	56.5	
32 500-7633050 0	8186 01	1976	BONFIELD TOWNSHIP	ONT	CAN	46 14	79 08	245	S	2.49	85	97.5	
32 500-7633070 0	8186 03	1976	BONFIELD TOWNSHIP	ONT	CAN	46 14	79 08	245	S	2.49	85	97.5	
32 500-7633080 0	8186 04	1976	BONFIELD TOWNSHIP	ONT	CAN	46 14	79 08	245	S	2.31	85	96.3	
32 500-7633140 0	8186 10	1976	BONFIELD TOWNSHIP	ONT	CAN	46 14	79 08	245	S	1.87	85	90.0	
32 500-7633160 0	8187 02	1976	BONMAN TOWNSHIP	ONT	CAN	46 14	79 08	245	S	2.79	85	96.5	
32 500-7633170 0	8187 03	1976	BONMAN TOWNSHIP	ONT	CAN	48 29	80 25	290	S	2.43	85	79.0	
32 500-7633180 0	8187 04	1976	BONMAN TOWNSHIP	ONT	CAN	48 29	80 25	290	S	2.94	85	96.0	
32 500-7633210 0	8187 07	1976	BONMAN TOWNSHIP	ONT	CAN	48 29	80 25	290	S	2.46	85	95.0	
32 500-7633220 0	8187 08	1976	BONMAN TOWNSHIP	ONT	CAN	48 29	80 25	290	S	2.32	85	83.0	
32 500-7633570 0		1976	SILVER LAKE	ONT	CAN	44 49	76 41	180	S	2.18	85	97.5	
32 500-7633590 0		1976	SILVER LAKE	ONT	CAN	44 49	76 41	180	S	2.68	85	92.0	46cm, 11m, 25-30y
32 500-7633640 0	8352 02	1976	FORESTER FALLS	ONT	CAN	45 41	76 48	140	S	3.17	85	90.0	20cm, dm, 18y
32 500-7633650 0	8352 03	1976	FORESTER FALLS	ONT	CAN	45 41	76 48	140	S	2.05	85	94.5	39cm, 12m, 50y
32 500-7633680 0	8353 01	1976	FORESTER FALLS	ONT	CAN	45 42	76 49	150	S	2.14	85	97.5	43cm, 12m, 45y
32 500-7634460 0		1976	CHALK RIVER, AECL	ONT	CAN	45 42	76 49	150	S	3.10	85	79.5	25cm, 10m, 27y
32 500-7655070 0	8357 00	1976	SIPANOK CH.	SASK	CAN	53 40	102 47	272	B	1.94	85	98.0	ST 1865
32 500-7655110 0	8361 00	1976	CHITEK LAKE	SASK	CAN	53 46	107 50	567	B	2.33	78	75.8	
32 500-7655120 0	8362 00	1976	MADGE LAKE	SASK	CAN	51 38	101 40	621	B	2.15	78	46.2	
32 500-7655140 0	8364 00	1976	PIMEI R.	SASK	CAN	53 30	102 55	509	B	2.57	78	74.2	
32 500-7655160 0	8134 02	1976	CANDLE LAKE	SASK	CAN	53 45	105 12	494	B	2.61	78	60.0	
32 500-7655170 0	8366 00	1976	DRE LAKE	SASK	CAN	54 42	107 16	485	N/A	2.08	78	39.0	
32 500-7665200 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	S	1.79	77	93.0	A F S # 0339
32 500-7665460 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	S	1.65	85	35.0	A F S # 0349
32 500-7665490 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	S	2.05	85	21.0	A F S # 0352
32 500-7665510 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	S	1.43	85	61.5	A F S # 0354
32 500-7665520 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	S	2.13	85	52.5	A F S # 0355
32 500-7665540 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	S	2.48	85	55.0	A F S # 0357
32 500-7669213 0		1976	PEACE RIVER FOREST	ALTA	CAN	57 18	114 32	549	B(24)	2.06	85	40.0	
32 500-7730440 0	8701 07	1977	PETAWAMA NAT. FOR	INST	ONT	45 59	77 25	170	S	2.08	83	100.0	
32 500-7730460 0		1977	PETAWAMA NAT. FOR	INST	ONT	45 59	77 25	160	B	2.08	83	95.0	
32 500-7730470 0		1977	PETAWAMA NAT. FOR	INST	ONT	45 58	77 25	160	S	2.58	83	88.0	
32 500-7730480 0		1977	PETAWAMA NAT. FOR	INST	ONT	45 59	77 25	160	S	2.00	83	89.0	
32 500-7730490 0		1977	PETAWAMA NAT. FOR	INST	ONT	45 59	77 25	160	S	2.41	83	88.0	
32 500-7730500 0		1977	PETAWAMA NAT. FOR	INST	ONT	45 59	77 25	170	S	1.71	83	94.0	
32 500-7730510 0		1977	PETAWAMA NAT. FOR	INST	ONT	46 00	77 26	170	B	2.30	83	90.0	
32 500-7730590 0	8701 07	1977	DAVPOINT TOWNSHIP	ONT	CAN	46 51	83 58	300	S	2.21	83	100.0	
32 500-7730960 0	8705 06	1977	PROCTOR TOWNSHIP	ONT	CAN	46 20	82 30	250	S	1.69	83	98.0	
32 500-7731060 0	8706 09	1977	TOWNSHIP 131	ONT	CAN	46 28	82 14	365	S	2.01	83	92.0	
32 500-7731100 0	8707 03	1977	DENISON TOWNSHIP	ONT	CAN	46 27	81 22	275	S	2.15	83	99.0	
32 500-7731120 0	8707 05	1977	DENISON TOWNSHIP	ONT	CAN	46 27	81 22	275	S	1.98	78	99.0	
32 500-7731140 0	8707 07	1977	DENISON TOWNSHIP	ONT	CAN	46 27	81 22	275	S	2.00	83	92.0	
32 500-7731150 0	8707 08	1977	DENISON TOWNSHIP	ONT	CAN	46 27	81 22	275	S	1.96	78	100.0	
32 500-7731260 0	8021 12	1977	NAIRN TOWNSHIP	ONT	CAN	46 19	81 39	215	S	2.13	83	99.0	
32 500-7731310 0	8021 17	1977	NAIRN TOWNSHIP	ONT	CAN	46 19	81 39	215	S	2.23	78	99.5	
32 500-7731600 0	8710 02	1977	DAHL TOWNSHIP	ONT	CAN	48 18	85 00	425	S	1.86	83	82.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PRDV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-7731620.0	8710.04	1977	DAHL TOWNSHIP	ONT	CAN	48.19	95.00	425	S	2.51	83	87.0	
32.500-7820730.0	8373.03	1976	THORNE TOWNSHIP	GUE	CAN	45.48	76.28	210	S	2.28	83	99.0	
32.500-7820740.0	8373.04	1976	THORNE TOWNSHIP	GUE	CAN	45.48	76.28	210	S	2.28	83	95.0	
32.500-7820750.0	8373.05	1976	THORNE TOWNSHIP	GUE	CAN	45.48	76.28	210	S	2.98	83	98.0	
32.500-7820760.0	8373.06	1976	THORNE TOWNSHIP	GUE	CAN	45.48	76.28	210	S	2.34	83	99.0	
32.500-7820890.0	8372.01	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	B	2.28	83	100.0	23-25cm, 12-17m
32.500-7820900.0	8372.02	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.33	83	100.0	
32.500-7820910.0	8372.03	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.87	83	100.0	
32.500-7820920.0	8372.04	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.31	83	100.0	
32.500-7820930.0	8372.05	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.63	83	100.0	
32.500-7820940.0	8372.06	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.88	83	100.0	
32.500-7820950.0	8372.07	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	3.52	83	100.0	
32.500-7820960.0	8372.08	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.68	83	100.0	
32.500-7820970.0	8372.09	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	3.01	83	100.0	
32.500-7820980.0	8372.10	1978	OTTER LAKE	GUE	CAN	45.51	76.26	200	S	2.78	83	98.0	
32.500-7830610.0			PETAWANA NAT.	FOR	INST	46.00	77.26	160	S	2.29	83	100.0	
32.500-7830820.0			PETAWANA NAT.	FOR	INST	46.00	77.26	160	S	2.61	83	97.0	
32.500-7830830.0			PETAWANA NAT.	FOR	INST	45.57	77.25	160	S	2.60	80	98.5	ST 2023
32.500-7830840.0			PETAWANA NAT.	FOR	INST	45.57	77.25	160	S	2.07	80	94.8	ST 2017
32.500-7831460.0			PETAWANA NAT.	FOR	INST	45.57	77.24	160	S	2.13	80	97.0	
32.500-7831470.0			PETAWANA NAT.	FOR	INST	45.57	77.24	160	S	2.30	80	96.0	
32.500-7831570.0			PETAWANA NAT.	FOR	INST	45.57	77.24	160	S	2.67	80	95.5	ST 1863
32.500-7831580.0			PETAWANA NAT.	FOR	INST	45.57	77.25	160	S	2.02	80	96.3	ST 2019
32.500-7933060.0	8772.04	1979	SOUTH NATION RIVER	ONT	CAN	45.33	75.03	61	S	2.76	83	51.0	
32.500-7933080.0	8772.06	1979	SOUTH NATION RIVER	ONT	CAN	45.33	75.03	61	N/A				
32.500-8200564.0			CORMACK	NFLD	CAN	49.20	57.19	90	B	2.88	85	88.0	
32.500-8200570.0			GOOSE BAY, LABRADOR	NFLD	CAN	53.20	60.10	10	B	2.19	85	90.0	
32.500-8200571.0			FRENCHMAN'S POND	NFLD	CAN	48.53	55.53	180	B	2.15	85	83.0	
32.500-8234400.0			PINE GRAFT ARB.	P N F 1	ONT	45.57	77.28	200	S	2.13	83	97.8	50cm, 20m, 65y
32.500-8234410.0			PINE GRAFT ARB.	P N F 1	ONT	45.57	77.28	200	S	1.89	83	92.0	50cm, 18m, 65y
32.500-8234420.0			PINE GRAFT ARB.	P N F 1	ONT	45.57	77.28	200	S	2.05	83	98.3	45cm, 16m, 55y
32.500-8234430.0			PINE GRAFT ARB.	P N F 1	ONT	45.57	77.28	200	S	2.78	83	93.2	52cm, 70y
32.500-8234440.0			PINE GRAFT ARB.	P N F 1	ONT	45.57	77.28	200	S	2.36	83	97.0	35cm, 14m, 55y
32.500-8234450.0			PINE GRAFT ARB.	P N F 1	ONT	45.57	77.28	200	S	2.30	83	99.7	18-20m, 50-70y
32.500-8234460.0			PETAWANA NAT.	FOR	INST	45.59	77.28	200	S	2.18	83	99.2	
32.500-8234470.0			PETAWANA NAT.	FOR	INST	45.59	77.28	200	S	2.33	83	99.7	
32.500-8234480.0			PETAWANA NAT.	FOR	INST	45.59	77.28	200	S	2.04	83	99.5	
32.500-8234490.0			PETAWANA NAT.	FOR	INST	45.59	77.28	200	S	2.04	85	93.5	
32.500-8234500.0			PETAWANA NAT.	FOR	INST	45.59	77.28	200	S	2.30	83	99.5	
32.500-8280560.0			TETLIN JUNCTION	ALAS	USA	63.19	142.38	495	S	2.04	85	93.5	
32.500-8280561.0			WILLOW ISLAND	ALAS	USA	64.41	148.12	125	S	2.04	85	63.0	
32.500-8280562.0			BONANZA CREEK	ALAS	USA	64.43	148.20	375	S	2.94	85	81.0	
32.500-8280563.0			GERSTLE RIVER	ALAS	USA	63.50	144.53	390	S	2.68	85	80.0	
32.500-8284650.0			WASHINGTON COUNTY	ME	USA	44.45	67.15	47	S	3.53	83	100.0	RECD FROM K. MALE
32.500-8400991.0			MICHAELS BROOK	NFLD	CAN	48.48	56.20	210	B	3.30	85	96.0	
32.500-8430101.0	21101.02	1994	MCHAB 10	ONT	CAN	45.28	76.27	129	S	1.89	85	97.5	ST 5036
32.500-8430104.0	21101.05	1984	MCHAB 10	ONT	CAN	45.28	76.27	129	S	1.78	85	97.5	ST 5039
32.500-8430106.0	21102.01	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	2.32	85	97.0	ST 5109
32.500-8430107.0	21102.02	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	2.04	85	98.5	ST 5110
32.500-8430108.0	21102.03	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.55	85	97.5	ST 5111
32.500-8430109.0	21102.04	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.27	85	96.5	ST 5112
32.500-8430111.0	21102.06	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.60	85	100.0	ST 5114
32.500-8430112.0	21102.07	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.79	85	98.0	ST 5115
32.500-8430113.0	21102.08	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.59	85	99.0	ST 5116
32.500-8430114.0	21102.09	1984	JONES 2	ONT	CAN	45.31	77.47	381	S	1.84	85	99.0	ST 5117

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PRDV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32. 500-8430115	0	21102.10	1984 JONES 2	ONT	CAN	45 31	77 47	381	S	2.07	85	99.0	ST 5118
32. 500-8430116	0	21103.01	1984 HORTON 2	ONT	CAN	45 27	76 42	194	S	1.85	85	99.5	ST 5119
32. 500-8430117	0	21103.02	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	1.65	85	81.5	ST 5120
32. 500-8430118	0	21103.03	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	2.06	85	99.0	ST 5121
32. 500-8430119	0	21103.04	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	2.25	85	99.5	ST 5122
32. 500-8430120	0	21103.05	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	2.13	85	95.0	ST 5123
32. 500-8430121	0	21103.06	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	2.29	85	94.5	ST 5124
32. 500-8430122	0	21103.07	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	1.46	85	95.0	ST 5125
32. 500-8430123	0	21103.08	1984 HORTON 2	ONT	CAN	45 27	76 42	154	S	1.67	85	99.5	ST 5126
32. 500-8430124	0	21104.01	1984 STAFFORD 5	ONT	CAN	45 45	77 03	137	S	1.77	85	95.0	ST 5103
32. 500-8430126	0	21104.03	1984 STAFFORD 5	ONT	CAN	45 45	77 03	137	S	1.94	85	98.5	ST 5105
32. 500-8430127	0	21104.04	1984 STAFFORD 5	ONT	CAN	45 45	77 03	137	S	1.90	85	98.5	ST 5106
32. 500-8430128	0	21104.05	1984 STAFFORD 5	ONT	CAN	45 45	77 03	137	S	1.61	85	99.5	ST 5107
32. 500-8430129	0	21104.06	1984 STAFFORD 5	ONT	CAN	45 45	77 03	137	S	1.63	85	94.0	ST 5108
32. 500-8430130	0	21105.01	1984 HORTON 4	ONT	CAN	45 27	76 36	144	S	2.05	85	95.0	ST 5041
32. 500-8430132	0	21106.01	1984 BROHLEY 5	ONT	CAN	45 37	76 56	152	S	2.22	85	91.5	ST 5004
32. 500-8430133	0	21106.02	1984 BROHLEY 5	ONT	CAN	45 37	76 56	152	S	2.45	85	99.0	ST 5005
32. 500-8430134	0	21106.03	1984 BROHLEY 5	ONT	CAN	45 37	76 56	152	S	1.44	85	98.0	ST 5006
32. 500-8430135	0	21107.01	1984 WILBERFORCE 15	ONT	CAN	45 33	77 04	152	S	1.99	85	98.0	ST 5030
32. 500-8430136	0	21107.02	1984 WILBERFORCE 15	ONT	CAN	45 33	77 04	152	S	1.57	85	98.0	ST 5031
32. 500-8430140	0	21108.02	1984 WILBERFORCE 14	ONT	CAN	45 33	77 05	168	S	1.57	85	94.5	ST 5023
32. 500-8430141	0	21108.03	1984 WILBERFORCE 14	ONT	CAN	45 33	77 05	168	S	2.35	85	97.5	ST 5024
32. 500-8430142	0	21108.04	1984 WILBERFORCE 14	ONT	CAN	45 33	77 05	168	S	1.69	85	97.5	ST 5025
32. 500-8430144	0	21108.06	1984 WILBERFORCE 14	ONT	CAN	45 33	77 05	168	S	2.52	85	97.0	ST 5027
32. 500-8430145	0	21108.07	1984 WILBERFORCE 14	ONT	CAN	45 33	77 05	168	S	1.89	85	98.0	ST 5028
32. 500-8430146	0	21108.08	1984 WILBERFORCE 14	ONT	CAN	45 33	77 05	168	S	1.29	85	96.0	ST 5029
32. 500-8430147	0	21109.01	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	2.09	85	99.5	ST 5053
32. 500-8430149	0	21109.03	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	2.82	85	99.5	ST 5055
32. 500-8430151	0	21109.05	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	2.30	85	100.0	ST 5057
32. 500-8430152	0	21109.06	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	1.42	85	94.5	ST 5058
32. 500-8430153	0	21109.07	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	1.45	85	93.0	ST 5059
32. 500-8430154	0	21109.08	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	1.85	85	99.5	ST 5060
32. 500-8430155	0	21109.09	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	1.51	85	99.0	ST 5061
32. 500-8430156	0	21109.10	1984 ADMASTON 9	ONT	CAN	45 27	76 48	152	S	1.61	85	99.5	ST 5062
32. 500-8430157	0	21110.01	1984 WILBERFORCE 11	ONT	CAN	45 34	77 09	183	S	2.52	85	97.0	ST 5018
32. 500-8430158	0	21110.02	1984 WILBERFORCE 11	ONT	CAN	45 34	77 09	183	S	2.06	85	92.5	ST 5019
32. 500-8430159	0	21110.03	1984 WILBERFORCE 11	ONT	CAN	45 34	77 09	183	S	1.90	85	97.0	ST 5020
32. 500-8430160	0	21110.04	1984 WILBERFORCE 11	ONT	CAN	45 34	77 09	183	S	2.22	85	98.0	ST 5021
32. 500-8430161	0	21112.01	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	1.90	85	98.5	ST 5073
32. 500-8430162	0	21112.02	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	1.87	85	84.5	ST 5074
32. 500-8430165	0	21112.05	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	1.48	85	94.0	ST 5077
32. 500-8430166	0	21112.06	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	1.90	85	97.0	ST 5078
32. 500-8430167	0	21112.07	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	2.20	85	99.5	ST 5079
32. 500-8430168	0	21112.08	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	2.20	85	97.0	ST 5080
32. 500-8430169	0	21112.09	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	1.80	85	99.5	ST 5081
32. 500-8430170	0	21112.10	1984 SOUTH ALGONA 6	ONT	CAN	45 31	77 12	244	S	1.90	85	100.0	ST 5082
32. 500-8430171	0	21113.01	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.30	85	98.0	ST 5083
32. 500-8430172	0	21113.02	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.68	85	97.0	ST 5084
32. 500-8430173	0	21113.03	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.65	85	99.0	ST 5085
32. 500-8430174	0	21113.04	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.73	85	97.0	ST 5086
32. 500-8430175	0	21113.05	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.55	85	97.5	ST 5087
32. 500-8430176	0	21113.06	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	2.03	85	98.0	ST 5088
32. 500-8430177	0	21113.07	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.95	85	96.5	ST 5089
32. 500-8430179	0	21113.09	1984 SOUTH ALGONA 7	ONT	CAN	45 31	77 14	229	S	1.65	85	100.0	ST 5090

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-8430180 0	21113 10	1984	SOUTH ALGDNA 7	DNT	CAN	45 31	77 14	229	S	1.65	85	97 0	ST 5092
32 500-8430181 0	21127 01	1984	ROSS 16	DNT	CAN	45 37	76 53	152	S	2.40	85	96 0	ST 4965
32 500-8430183 0	21127 03	1984	ROSS 16	DNT	CAN	45 37	76 53	152	S	2.13	85	96 5	ST 4968
32 500-8430184 0	21127 04	1984	ROSS 16	DNT	CAN	45 37	76 53	152	S	1.60	85	98 5	ST 4969
32 500-8430187 0	21127 07	1984	ROSS 16	DNT	CAN	45 37	76 53	152	S	2.45	85	98 5	ST 4972
32 500-8430190 0	21117 02	1984	ROSS 17	DNT	CAN	45 37	76 49	183	S	1.53	85	95 5	ST 4975
32 500-8430191 0	21117 03	1984	ROSS 17	DNT	CAN	45 37	76 49	183	S	1.68	85	94 0	ST 4974
32 500-8430192 0	21117 04	1984	ROSS 17	DNT	CAN	45 37	76 49	183	S	1.95	85	98 0	ST 4977
32 500-8430193 0	21117 05	1984	ROSS 17	DNT	CAN	45 37	76 49	183	S	1.90	85	98 5	ST 4978
32 500-8430196 0	21117 08	1984	ROSS 17	DNT	CAN	45 37	76 49	183	S	1.65	85	100 0	ST 4981
32 500-8430197 0	21119 01	1984	ROSS 19	DNT	CAN	45 34	76 50	168	S	1.98	85	99 0	ST 4982
32 500-8430198 0	21120 01	1984	ROSS 20	DNT	CAN	45 36	76 51	152	S	1.80	85	100 0	ST 4983
32 500-8430199 0	21120 02	1984	ROSS 20	DNT	CAN	45 36	76 51	152	S	1.50	85	99 5	ST 4984
32 500-8430200 0	21120 03	1984	ROSS 20	DNT	CAN	45 36	76 51	152	S	1.75	85	98 5	ST 4985
32 500-8430201 0	21120 04	1984	ROSS 20	DNT	CAN	45 36	76 51	152	S	1.40	85	97 0	ST 4986
32 500-8430202 0	21120 05	1984	ROSS 20	DNT	CAN	45 36	76 51	152	S	1.55	85	99 0	ST 4988
32 500-8430205 0	21120 08	1984	ROSS 20	DNT	CAN	45 36	76 51	152	S	1.40	85	99 0	ST 4991
32 500-8430215 0	21116 10	1984	ROSS 7	DNT	CAN	45 42	76 45	152	S	1.58	85	98 0	ST 4948
32 500-8430216 0	21125 01	1984	ROSS 11	DNT	CAN	45 42	76 47	128	S	1.78	85	99 5	ST 4949
32 500-8430218 0	21125 03	1984	ROSS 11	DNT	CAN	45 42	76 47	128	S	1.75	85	98 0	ST 4951
32 500-8430220 0	21125 05	1984	ROSS 11	DNT	CAN	45 42	76 47	128	S	1.85	85	96 0	ST 4953
32 500-8430221 0	21125 06	1984	ROSS 11	DNT	CAN	45 42	76 47	128	S	1.73	85	97 5	ST 4954
32 500-8430224 0	21125 09	1984	ROSS 11	DNT	CAN	45 42	76 47	128	S	2.25	85	97 5	ST 4958
32 500-8430225 0	21126 01	1984	ROSS 13	DNT	CAN	45 41	76 51	137	S	1.55	85	96 5	ST 4960
32 500-8430229 0	21126 05	1984	ROSS 13	DNT	CAN	45 41	76 51	137	S	1.93	85	100 0	ST 4961
32 500-8430230 0	21111 01	1984	ALICE 1	DNT	CAN	45 41	76 51	168	S	1.70	85	100 0	ST 4964
32 500-8430231 0	21111 02	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	1.93	85	97 5	ST 5063
32 500-8430232 0	21111 03	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	1.70	85	98 0	ST 5064
32 500-8430233 0	21111 04	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	2.20	85	98 0	ST 5065
32 500-8430234 0	21111 05	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	1.53	85	95 5	ST 5067
32 500-8430235 0	21111 06	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	1.88	85	99 0	ST 5068
32 500-8430236 0	21111 07	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	1.75	85	98 5	ST 5069
32 500-8430237 0	21111 08	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	1.55	85	99 5	ST 5070
32 500-8430238 0	21111 09	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	2.48	85	97 5	ST 5071
32 500-8430239 0	21111 10	1984	ALICE 1	DNT	CAN	45 48	77 15	168	S	2.89	85	83 0	ST 5072
32 500-8430246 0	21121 07	1984	HORTON 5	DNT	CAN	45 27	76 37	137	S	1.93	85	84 4	ST 5049
32 500-8430249 0	21122 01	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.95	85	99 5	ST 5093
32 500-8430250 0	21122 02	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	2.00	85	99 0	ST 5094
32 500-8430251 0	21122 03	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.55	85	98 0	ST 5095
32 500-8430252 0	21122 04	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.93	85	97 5	ST 5096
32 500-8430253 0	21122 05	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.90	85	99 5	ST 5097
32 500-8430255 0	21122 07	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.80	85	99 0	ST 5099
32 500-8430257 0	21122 09	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.73	85	66 5	ST 5101
32 500-8430258 0	21122 10	1984	MCHAB 7	DNT	CAN	45 28	76 30	114	S	1.65	85	98 0	ST 5102
32 500-8430261 0	21128 03	1984	BROWLEY 3	DNT	CAN	45 39	77 03	152	S	1.93	85	98 0	ST 4995
32 500-8430262 0	21128 04	1984	BROWLEY 3	DNT	CAN	45 39	77 03	152	S	1.58	85	100 0	ST 4996
32 500-8430265 0	21132 01	1984	STAFFORD 4	DNT	CAN	45 43	77 05	145	S	1.58	85	98 0	ST 5007
32 500-8430270 0	21132 02	1984	STAFFORD 4	DNT	CAN	45 43	77 05	145	S	1.83	85	99 0	ST 5008
32 500-8430271 0	21132 03	1984	STAFFORD 4	DNT	CAN	45 43	77 05	145	S	1.85	85	99 0	ST 5009
32 500-8430273 0	21132 05	1984	STAFFORD 4	DNT	CAN	45 43	77 05	145	S	1.80	85	100 0	ST 5011
32 500-8430274 0	21132 06	1984	STAFFORD 4	DNT	CAN	45 43	77 05	145	S	1.70	85	98 0	ST 5012
32 500-8430275 0	21132 07	1984	STAFFORD 4	DNT	CAN	45 43	77 05	145	S	1.63	85	99 5	ST 5014
32 500-8430277 0	21133 01	1984	PEMBROKE 2	DNT	CAN	45 49	77 04	114	S	2.70	85	93 0	ST 4816

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32 500-8430278 0	21133 02	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.80	85	98.0	ST 4817
32 500-8430279 0	21133 03	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.80	85	95.0	ST 4818
32 500-8430280 0	21133 04	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	2.60	85	99.5	ST 4819
32 500-8430281 0	21133 05	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.98	85	99.0	ST 4822 1ST COLL
32 500-8430282 0	21133 06	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.70	85	100.0	ST 4823
32 500-8430283 0	21133 07	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.69	85	96.0	ST 4824
32 500-8430284 0	21133 08	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.55	85	100.0	ST 4825
32 500-8430285 0	21133 09	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.68	85	100.0	ST 4826
32 500-8430286 0	21133 10	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	2.33	85	99.0	ST 4827
32 500-8430287 0	21133 11	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.43	85	95.0	ST 4828
32 500-8430288 0	21133 12	1984	PEMBROKE 2	ONT	CAN	45 49	77 04	114 5	S	1.43	85	95.0	ST 4829
32 500-8430289 0	21134 01	1984	PEMBROKE 3	ONT	CAN	45 48	77 03	114 5	S	1.83	85	98.5	ST 4832
32 500-8430291 0	21134 03	1984	PEMBROKE 3	ONT	CAN	45 48	77 03	114 5	S	2.00	85	100.0	ST 4830
32 500-8430292 0	21134 04	1984	PEMBROKE 3	ONT	CAN	45 48	77 03	114 5	S	1.83	85	98.5	ST 4832
32 500-8430303 0	21118 05	1984	PEMBROKE 4	ONT	CAN	45 47	77 03	137 5	S	1.30	85	99.0	ST 4833
32 500-8430304 0	21118 06	1984	PEMBROKE 4	ONT	CAN	45 47	77 04	137 5	S	1.80	85	98.5	ST 4847
32 500-8430307 0	21123 02	1984	WESTMEATH 4	ONT	CAN	45 47	77 04	137 5	S	2.28	85	71.0	ST 4848
32 500-8430308 0	21123 03	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	1.55	85	97.0	ST 4851
32 500-8430309 0	21123 04	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	2.13	85	98.0	ST 4852
32 500-8430310 0	21123 05	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	1.65	85	95.0	ST 4853
32 500-8430312 0	21123 07	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	2.16	85	98.0	ST 4854
32 500-8430313 0	21123 08	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	1.58	85	100.0	ST 4856
32 500-8430314 0	21123 09	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	2.30	85	99.0	ST 4857
32 500-8430316 0	21123 11	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	1.87	85	99.0	ST 4858
32 500-8430317 0	21123 12	1984	WESTMEATH 4	ONT	CAN	45 53	76 54	122 5	S	1.65	85	98.5	ST 4859
32 500-8430318 0	21130 01	1984	WESTMEATH 9	ONT	CAN	45 53	76 54	122 5	S	1.83	85	99.0	ST 4861
32 500-8430319 0	21130 02	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.65	85	98.5	ST 4862
32 500-8430321 0	21130 04	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	2.10	85	98.5	ST 4863
32 500-8430322 0	21130 05	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.80	85	100.0	ST 4865
32 500-8430323 0	21130 06	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.63	85	99.0	ST 4866
32 500-8430325 0	21130 08	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.63	85	98.0	ST 4867
32 500-8430326 0	21130 09	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.80	85	94.5	ST 4869
32 500-8430327 0	21130 10	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.95	85	97.5	ST 4870
32 500-8430328 0	21129 01	1984	WESTMEATH 9	ONT	CAN	45 51	76 47	122 5	S	1.95	85	96.5	ST 4871
32 500-8430330 0	21129 03	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	1.33	85	98.5	ST 4872
32 500-8430331 0	21129 04	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	1.80	85	97.0	ST 4874
32 500-8430332 0	21129 05	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	2.08	85	99.0	ST 4875
32 500-8430334 0	21129 07	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	2.03	85	100.0	ST 4876
32 500-8430335 0	21129 08	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	2.03	85	99.0	ST 4878
32 500-8430337 0	21129 10	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	1.50	85	99.0	ST 4879
32 500-8430339 0	21129 12	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	1.75	85	99.5	ST 4879
32 500-8430340 0	21129 13	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	1.83	85	99.5	ST 4881
32 500-8430341 0	21129 14	1984	WESTMEATH 10	ONT	CAN	45 52	76 47	107 5	S	2.38	85	96.5	ST 4883
32 500-8430342 0	21135 01	1984	WESTMEATH 12	ONT	CAN	45 52	76 47	107 5	S	2.43	85	99.0	ST 4884
32 500-8430347 0	21135 06	1984	WESTMEATH 12	ONT	CAN	45 50	76 50	122 5	S	1.79	85	98.0	ST 4885
32 500-8430349 0	21131 01	1984	WESTMEATH 13	ONT	CAN	45 50	76 50	122 5	S	2.05	85	99.0	ST 4886
32 500-8430350 0	21131 02	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	2.03	85	86.5	ST 4892
32 500-8430351 0	21131 03	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	1.62	85	100.0	ST 4896
32 500-8430353 0	21131 05	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	2.05	85	98.0	ST 4897
32 500-8430354 0	21131 06	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	1.45	85	98.5	ST 4898
32 500-8430358 0	21131 10	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	1.65	85	97.0	ST 4900
32 500-8430359 0	21131 11	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	1.40	85	98.5	ST 4901
32 500-8430360 0	21131 12	1984	WESTMEATH 13	ONT	CAN	45 50	76 53	122 5	S	2.10	85	99.0	ST 4906
32 500-8430361 0	21124 01	1984	WESTMEATH 14	ONT	CAN	45 52	76 53	137 5	S	1.85	85	99.0	ST 4907
				ONT	CAN	45 50	76 53	122 5	S	1.78	85	99.0	ST 4908
				ONT	CAN	45 52	76 53	137 5	S	2.08	85	99.0	ST 4909

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32.500-8430365.0	21124.05	1984	WESTMEATH 14	DNT	CAN	45.52	76.52	137.5	S	1.35	85	98.5	ST. 4915
32.500-8430366.0	21124.06	1984	WESTMEATH 14	DNT	CAN	45.52	76.52	137.5	S	2.08	85	98.0	ST. 4916
32.500-8430368.0	21124.08	1984	WESTMEATH 14	DNT	CAN	45.46	76.53	137.5	S	2.18	85	99.5	ST. 4918
32.500-8430369.0	21124.09	1984	WESTMEATH 14	DNT	CAN	45.46	76.53	137.5	S	1.65	85	99.0	ST. 4919
32.500-8430371.0	21124.11	1984	WESTMEATH 14	DNT	CAN	45.46	76.53	137.5	S	2.15	85	96.0	ST. 4921
32.500-8430373.0	21115.01	1984	WESTMEATH 20	DNT	CAN	45.44	76.59	137.5	S	1.63	85	95.5	ST. 4923
32.500-8430376.0	21115.04	1984	WESTMEATH 20	DNT	CAN	45.44	76.59	137.5	S	1.83	85	96.5	ST. 4926
32.500-8430377.0	21115.05	1984	WESTMEATH 20	DNT	CAN	45.44	76.59	137.5	S	1.55	85	98.0	ST. 4927
32.500-8430379.0	21115.07	1984	WESTMEATH 20	DNT	CAN	45.44	76.59	137.5	S	2.94	85	92.5	ST. 4929
32.500-8430383.0	21114.01	1984	WESTMEATH 21	DNT	CAN	45.44	77.00	168.5	S	1.85	85	95.5	ST. 4933
32.500-8430385.0	21114.03	1984	WESTMEATH 21	DNT	CAN	45.44	77.00	168.5	S	1.95	85	97.5	ST. 4935
32.500-8430386.0	21114.04	1984	WESTMEATH 21	DNT	CAN	45.44	77.00	168.5	S	1.65	85	98.5	ST. 4936
32.500-8430388.0	21114.06	1984	WESTMEATH 21	DNT	CAN	45.44	77.00	168.5	S	1.53	85	96.0	ST. 4938
32.500-8431427.0		1984	HEADQUARTERS RD., P.N.F.I	DNT	CAN	46.00	77.27	150.5	S	1.61	85	82.0	44cm, 19m
32.500-8431428.0		1984	HEADQUARTERS RD., P.N.F.I	DNT	CAN	46.00	77.27	150.5	S	1.65	85	63.9	53cm, 17.5m
32.500-8431429.0		1984	HEADQUARTERS RD., P.N.F.I	DNT	CAN	46.00	77.27	150.5	S	1.24	85	60.5	55cm, 19.5m
32.500-8431430.0		1984	UNIT CREEK RD., P.N.F.I	DNT	CAN	45.58	77.25	150.5	S	2.17	85	94.5	34cm, 18.5m
32.500-8431431.0		1984	UNIT CREEK RD., P.N.F.I	DNT	CAN	45.58	77.25	150.5	S	1.42	85	90.0	53cm, 25m
32.500-8431432.0		1984	UNIT CREEK RD., P.N.F.I	DNT	CAN	45.58	77.25	150.5	S	1.54	85	95.5	47cm, 22.5m
32.500-8431433.0		1984	PINE GRAFT ARBORETUM	DNT	CAN	45.58	77.24	160.5	S	1.80	85	98.0	55cm, 23.5m
32.500-8431434.0		1984	PINE GRAFT ARBORETUM	DNT	CAN	45.58	77.24	160.5	S	1.65	85	90.0	40cm, 17.5m
32.500-8431435.0		1984	PINE GRAFT ARBORETUM	DNT	CAN	45.58	77.24	160.5	S	1.38	85	79.0	52cm, 19m
32.500-8431436.0		1984	UNIT CREEK RD., P.N.F.I	DNT	CAN	45.58	77.25	150.5	S	1.74	85	83.1	
(32.600) PICEA GLEHNII (Sakhalin spruce)													
32.600-6981720.0		1969	HOKKAIDO PREFECTURE		JPN	43.25	144.06E	615	B	3.34	83	29.5	
(32.720) PICEA JEZOENSIS var. MICROSPERMA													
32.720-8380664.0		1983	ICHUN, HEILUNGIANG PROV.		CHN	47.00	129.00E	240	N/A	2.94	85	73.3	
(32.750) PICEA KORAIENSIS													
32.750-8380663.0		1983	ICHUN, HEILUNGIANG PROV.		CHN	47.00	129.00E	240	N/A	6.21	85	88.3	
32.750-8480977.0		1984	INNER MONGOLIA		CHN	40.00	110.00E		N/A	5.87	85	80.0	
32.750-8480978.0		1984	HEILUNGIANG PROVINCE		CHN	47.00	129.00E		N/A	6.05	85	91.0	
(32.800) PICEA KOYAMAE (Koyama spruce)													
32.800-7484360.0		1974	NAGANO PREFECTURE		JPN	35.50	138.13E	1660	B	4.65	83	57.5	39cm, 21m, 85y
(32.900) PICEA MARIANA (black spruce)													
32.900-5210560.0		1952	GEARY		NB	45.42	66.31	20	B	1.31	83	79.9	
32.900-5210560.0		1952	FARMINGTON		PEI	46.23	62.29	20	B	1.28	83	55.0	
32.900-5310590.0		1953	PRINCE WILLIAM STATION		NB	45.45	67.05	150	B	1.62	83	33.5	
32.900-5310540.0	7073.00	1953	ACADIA FOR. EXP. STA.		NB	45.59	66.14	45	N/A	1.39	83	56.5	
32.900-5310590.0		1953	CHIGNICTO GAME SANCTUARY		NS	45.30	64.28	45	B	1.55	83	62.5	
32.900-5910526.0		1959	BIG HOLE BROOK		NB	46.35	66.15	120	B	1.67	83	34.5	
32.900-6030270.0		1960	PETAHAWA NAT. FOR. INST.		DNT	45.58	77.29	200	N/A	.95	83	61.0	
32.900-6430210.0	7095.00	1964	ONTARIO SITE REGION 4E		DNT	47.00	80.00		B	1.06	83	100.0	LARGE ZONE
32.900-6430230.0		1964	ONTARIO SITE REGION 3W		DNT	47.00	90.00		B	.97	83	99.5	LARGE ZONE
32.900-6430240.0		1964	ONTARIO SITE REGION 4W		DNT	49.00	90.00		B	1.04	83	96.0	LARGE ZONE

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY YEAR COLL	PROVENANCE	PROV CTRY LAT LONG	ELEV COLL (m) TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
32. 900-6430250. 0	1964	ONTARIO SITE REGION 5S	ONT CAN 50.00 94.00	B	.99	83	99.5	LARGE ZONE
32. 900-6430260. 0	1964	ONTARIO SITE REGION 4S	ONT CAN 45.50 77.30	B	1.07	83	98.5	LARGE ZONE
32. 900-6480270. 0	7105. 00	ITASCA COUNTY	MINN USA 47.22 93.35	B (15)	1.25	83	73.0	
32. 900-6361040. 0	1965	WHITECOURT	ALTA CAN 53.45 115.43	B	1.32	84	55.0	
32. 900-6732320. 0	1967	RANGER LAKE	ONT CAN 46.46 83.26	B	.97	83	80.0	
32. 900-6791510. 0	1967	FORCUPINE MOUNTAIN	SASK CAN 52.30 101.43	B	1.04	83	64.5	
32. 900-7061100. 0	1970	FAWCETT LAKE	ALTA CAN 55.20 113.55	B	1.15	83	82.0	12-15m, 50-60y
32. 900-7126230. 0	1971	NORTH OF BAIE COMEAU	QUE CAN 50.20 68.40	B	1.37	85	99.0	
32. 900-7904710. 0	1979	SWIFT CURRENT	NFLD CAN 47.56 54.21	B	1.42	85	98.5	
32. 900-7904720. 0	1979	VICTORIA RIVER	NFLD CAN 48.34 56.48	B	1.34	85	95.0	
32. 900-8002040. 0	1980	SKIPPINS RIDGE	NFLD CAN 49.45 56.19	B	1.54	85	88.0	
32. 900-8002050. 0	1980	CARMANVILLE	NFLD CAN 49.21 54.16	B	1.46	85	92.5	
32. 900-8002060. 0	1980	INDIAN BAY	NFLD CAN 49.04 53.54	B	1.42	85	85.5	
32. 900-8002070. 0	1980	MINT BROOK	NFLD CAN 48.42 54.37	B	1.37	85	89.0	
32. 900-8120144. 0	1981	NORTHEAST OF CHIBOUGAMAU	QUE CAN 50.10 73.55	B	1.14	85	88.0	
32. 900-8120145. 0	1981	NORTH OF CHICOUTIMI	QUE CAN 49.90 71.15	B	1.24	85	94.0	
32. 900-8200554. 0	1982	GOOSE BAY, LABRADOR	NFLD CAN 53.17 60.23	B	1.32	85	96.5	
32. 900-8200565. 0	1982	CORMACK	NFLD CAN 49.22 57.18	B	1.59	85	96.5	
32. 900-8200566. 0	1982	EASTERN CHAIN LAKES	NFLD CAN 49.22 56.24	B	1.40	85	93.0	
32. 900-8200567. 0	1982	HEAD POND	NFLD CAN 48.53 55.50	B	1.53	85	95.0	
32. 900-8200568. 0	1982	BAIE VERTE JUNCTION	NFLD CAN 49.27 56.25	B	1.54	85	90.1	
32. 900-8200569. 0	1982	BURNT BERRY	NFLD CAN 49.28 56.13	B	1.61	85	96.0	
32. 900-8283280. 0	1982	HEARST	ONT CAN 49.41 83.40	N/A	.94	84	98.0	OLD & NEW CONES
32. 900-8310644. 0	1983	AUBURN	PEI CAN 46.17 62.55	B (20)	1.41	84	95.5	10-15cm, 6-10m, 42y
32. 900-8310645. 0	1983	CARDROSS	PEI CAN 46.16 62.38	B (50)	1.40	84	95.5	15-20cm, 12-15m, 65y
32. 900-8310646. 0	1983	HARHONY ROAD	PEI CAN 46.32 62.01	B (50)	1.60	85	98.0	10-15cm, 5-8m, 17y
32. 900-8360681. 0	1983	LOON LAKE	ALTA CAN 56.35 115.20	N/A	1.24	85	94.5	
32. 900-8360682. 0	1983	LESSER SLAVE LAKE	ALTA CAN 54.55 115.45	N/A	1.24	85	97.5	
32. 900-8431459. 0	1984	McGUIBBEN TOWNSHIP	ONT CAN 49.29 80.30	B (6)	.88	85	97.5	15cm, 15m, 150y
32. 900-8470097. 0	1984	TSDD CREEK	BC CAN 59.10 123.20	N/A	1.29	85	98.0	
(33. 350) PICEA PUNGENS var. GLAUCA (Colorado blue spruce)								
33. 350-82B5450. 0	1982	CLEAR CREEK, SANTA FE	NM USA 35.30 106.00	N/A	4.46	84	67.0	SUPERIOR XMAS TREE
(33. 400) PICEA RUBENS (red spruce)								
33. 400-5210520. 0	1952	SCOTT'S BAY	NS CAN 45.18 64.24	B	2.83	84	27.0	
33. 400-5310500. 0	1953	UPPER BLACKVILLE	NB CAN 46.39 69.51	B	2.32	84	74.0	
33. 400-5310510. 0	1953	BOYNE ROAD	NB CAN 45.33 66.31	B	2.43	83	95.5	
33. 400-5620010. 0	1956	LAKE EDWARD	QUE CAN 46.45 72.55	B	2.53	83	85.0	
33. 400-5620520. 0	1956	LAKE EDWARD	QUE CAN 46.45 72.55	B	2.45	83	90.0	
33. 400-5620580. 0	1956	VALCARTIER FOR EXP STA	QUE CAN 46.57 71.32	N/A	2.41	84	72.5	
33. 400-5910500. 0	1959	RENOUS-PLASTER ROCK HWY.	NB CAN 46.45 66.00	B	2.98	83	49.0	
33. 400-6010200. 0	1960	TIMBER LAKE	NS CAN 44.42 64.10	B	3.26	83	71.5	
33. 400-6110200. 0	1961	PROSSER BROOK	NB CAN 45.45 65.00	B	3.68	83	40.6	
33. 400-6210210. 0	1962	ACADIA FOR. EXP STA	NB CAN 46.00 66.25	N/A	2.40	83	52.8	
33. 400-6210220. 0	1962	ACADIA FOR. EXP STA	NB CAN 46.02 66.14	N/A	1.74	83	35.9	
33. 400-6230240. 0	1963	HUDSON PLACE, P. F. E. S.	ONT CAN 46.00 77.25	N/A	3.65	84	100.0	
33. 400-6380260. 0	3872. 00	ESSEX & CLINTON COUNTY	NY USA 44.30 73.90	B	4.00	83	56.1	
33. 400-8284660. 0	1982	PITSTON FARM	ME USA 45.45 69.45	N/A	3.08	83	53.0	RECD FROM K HALE
33. 400-8430954. 0	1984	BEAR POND ROAD	ONT CAN 45.02 77.19	B (5)	3.31	85	96.0	
33. 400-8430955. 0	1984	BEAR POND ROAD	ONT CAN 45.02 77.19	B (5)	3.12	85	98.0	21-23m, 75-139y
33. 400-8430956. 0	1984	BEAR POND ROAD	ONT CAN 45.02 77.19	B (5)	2.87	85	87.0	46cm, 21m, 106y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
33.400-8430957.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	3.79	85	81.5	46cm, 19m
33.400-8430958.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	1.98	85	95.5	POSSIBLE HYBRID
33.400-8430959.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.29	85	97.5	POSSIBLE HYBRID
33.400-8430960.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.43	85	99.0	43cm, 19m
33.400-8430961.0		1984	BEAR POND ROAD	ONT	CAN	45.02	77.19	320	B(5)	2.45	85	98.5	40cm, 17m, 116y
33.400-8430962.0		1984	ALGONGUIN PARK	ONT	CAN	45.17	78.11	490	B(5)	3.02	85	85.5	36cm, 20m, 112-125y
33.400-8430963.0		1984	ALGONGUIN PARK	ONT	CAN	45.17	78.11	490	B(5)	2.48	85	96.4	56cm, 21m, 210y
(33 450) PICEA SCHRENKIANA (Schrenk's spruce)													
33.450-8380669.0		1983	CHANG-CHI HUT, SINKIANG		CHN	44.00	89.00E	1000	N/A	7.62	85	70.3	
33.450-8480979.0		1984	SINKIANG-UICHUR PROVINCE		CHN	44.00	89.00E	1000	N/A	7.56	85	76.6	
(33 500) PICEA SITCHENSIS (sitka spruce)													
33.500-6680040.0		1966	PACIFIC COUNTY	WASH	USA	47.00	124.00		B	2.41	83	68.5	
33.500-6881030.0		1968	HOOJIAN	WASH	USA	47.05	124.03	6	S	2.28	85	47.0	61cm, 21m
33.500-6881140.0		1968	BROOKINGS	OR	USA	42.15	124.23	90	S	2.71	83	57.5	46cm, 19m
33.500-7073080.0		1970	WEDENE RIVER	BC	CAN	54.08	128.37	170	B	2.32	83	92.5	39-51m, 150-250y+
33.500-7073660.0		1970	USK FERRY	BC	CAN	54.38	128.24	140	B(21)	2.42	78	84.0	22-50m, 80-150y
33.500-7073870.0		1970	INVERNESS	BC	CAN	54.12	130.15	30	B(20)	2.48	78	84.5	24-43m, 60-250y
33.500-7073880.0		1970	LINK ROAD	BC	CAN	53.30	132.10	90	B	2.40	83	84.9	37-58m, 200y+
33.500-7073890.0		1970	SALMON BAY	BC	CAN	50.23	129.57		B	2.34	78	93.5	14-33m, 60-120y
33.500-7073900.0		1970	BIG GUALICUM RIVER	BC	CAN	49.23	124.37		B	2.44	83	96.5	19-39m, 40-80y
33.500-7073960.0		1970	KITWANGA	BC	CAN	53.10	127.52	670	B(16)	1.99	83	80.0	22-31m, 80-120y
33.500-7073970.0		1970	NOEICK, CHUCKWALLA RIVERS	BC	CAN	51.56	126.50	400	B(17)	2.15	83	41.0	27-91m, 80-400y
33.500-7073990.0		1970	DERRICK LAKE	BC	CAN	55.41	128.41	240	B(20)	1.69	83	85.5	29-46m, 150-200y
33.500-7074000.0		1970	CRANBERRY RIVER	BC	CAN	55.28	128.14	520	B(16)	1.75	83	92.0	19-41m, 100-200y
33.500-7074010.0		1970	FULMAR CREEK	BC	CAN	55.09	128.58	400	B(16)	2.29	83	94.0	37-46m, 150y
33.500-7074020.0		1970	GEDARVALE	BC	CAN	55.01	128.19	240	B(16)	2.22	83	93.0	18-37m, 100-200y
33.500-7074030.0		1970	PACIFIC	BC	CAN	54.46	128.15	110	S	2.13	83	77.2	64cm, 46m, 150y
33.500-7083840.0		1970	DUCK CREEK	ALAS	USA	58.23	134.35	30	B(20)	2.65	83	54.3	24-37m, 100y
33.500-7083890.0		1970	WARD LAKE	ALAS	USA	55.25	131.42	15	B	2.56	84	21.5	18-64m, 50-250y
33.500-7272010.0		1972	QUEEN CHARLOTTE ISLAND	BC	CAN	54.04	131.50	130	B	2.88	85	51.2	
33.500-7272290.0		1972	SOOKE #2 VANCOUVER IS.	BC	CAN	48.22	123.44	10	B	2.10	83	94.0	
33.500-7287290.0		1972	VALDEZ	ALAS	USA	61.07	146.16	90	B(5)	1.70	83	37.2	76-107cm, 30-46m
33.500-7575360.0		1975	PARKSVILLE	BC	CAN	49.10	124.50	75	B	2.57	83	72.5	
33.500-8370632.0		1983	KUMDIS CREEK	BC	CAN	53.42	132.09	10	B(3)	2.29	84	95.0	30-50m, 100y
(33 700) PICEA WILSONII													
33.700-8380674.0		1983	A-FA-TIBETAN, SZECHUAN P.		CHN	32.00	102.00E	3000	N/A	4.25	85	65.5	
33.700-8480980.0		1984	INNER MONGOLIA		CHN	40.00	111.00E		N/A	4.27	85	63.0	
(34 200) PINUS BANKSIANA (jack pine)													
34.200-5130010.0		1814	BARRY'S BAY	DNT	CAN	45.29	77.41		B	3.70	83	31.0	
34.200-5130020.0		1566	PETAHAWA NAT.	DNT	CAN	45.58	77.24	160	B	3.71	83	46.0	
34.200-5830260.0		1938	LAKE TRAVERSE, ALGON. PK	DNT	CAN	45.57	78.03		N/A	3.90	83	95.0	
34.200-6631610.0		1966	PETAHAWA NAT.	DNT	CAN	45.57	77.23	160	B(3)	3.78	84	91.5	
34.200-6750610.0		1967	PETAHAWA NAT.	DNT	CAN	45.55	77.55	170	B	3.26	84	75.5	
34.200-6730940.0		1967	DEEP RIVER	DNT	CAN	46.06	77.30		S	3.88	84	77.0	
34.200-6730950.0		1967	DEEP RIVER	DNT	CAN	46.06	77.30		S	3.15	84	64.0	
34.200-6730960.0		1967	DEEP RIVER	DNT	CAN	46.06	77.30		S	3.00	82	68.0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	ELEV COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
34, 200-6730980, 0		1967	DEEP RIVER	ONT	CAN	46, 06	77, 30		S	2, 64	84	72, 0	
34, 200-6730990, 0		1967	DEEP RIVER	ONT	CAN	46, 06	77, 30		S	2, 70	83	77, 0	
34, 200-6731770, 0		1967	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 57	77, 24	170	B	3, 30	84	74, 5	
34, 200-6830070, 0		1968	SIDUX LOOKOUT	ONT	CAN	50, 09	91, 48	360	B	3, 24	84	92, 0	15-18m, 70-80y
34, 200-6830070, 1		1968	SIDUX LOOKOUT	ONT	CAN	50, 09	91, 48	380	B	3, 33	84	63, 5	15-18m, 70-80y
34, 200-6830080, 0		1968	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 59	77, 18	145	B400	3, 25	82	95, 5	17-21m, 50-60y
34, 200-6830080, 1		1968	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 59	77, 18	145	B400	3, 25	82	93, 4	17-21m, 50-60y
34, 200-6830090, 0		1968	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 59	77, 18	145	B400	3, 40	83	96, 0	17-21m, 50-60y
34, 200-6830090, 1		1968	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 59	77, 18	145	B400	3, 20	83	84, 0	17-21m, 50-60y
34, 200-6951610, 0		1969	CANDLE LAKE	SASK	CAN	53, 55	105, 50	490	B	3, 29	84	93, 5	
34, 200-6951740, 0		1969	EMMA LAKE	SASK	CAN	53, 55	105, 50	490	B	3, 11	84	71, 5	
34, 200-7010380, 0		1970	GRAND LAKE	NB	CAN	45, 57	66, 04	30	B(15)	3, 52	85	95, 0	10-20cm
34, 200-7010500, 0		1970	SHINNICKBURN	NB	CAN	46, 30	66, 00	90	B(20)	3, 50	85	92, 0	11-12m, 40-50y
34, 200-7010500, 1		1970	SHINNICKBURN	NB	CAN	46, 30	66, 00	90	B(2)	3, 52	75	75, 5	11-12m, 40-50y
34, 200-7020460, 0		1970	CHURCH TOWNSHIP	QUE	CAN	46, 16	76, 13	240	S	3, 60	85	92, 5	25cm, 10m, 40y
34, 200-7020470, 0		1970	RIVIERE MANICOUAGAN	QUE	CAN	50, 10	68, 35	335	B(20)	3, 18	85	94, 0	13cm, 11m, 50y
34, 200-7030320, 0		1970	EVELYN TOWNSHIP	ONT	CAN	48, 40	81, 00	300	B(33)	3, 53	85	84, 0	FIRST KILN
34, 200-7030320, 1		1970	EVELYN TOWNSHIP	ONT	CAN	48, 40	81, 00	300	B(33)	3, 65	75	86, 0	SECOND KILN
34, 200-7030330, 0		1970	GREENLAW TOWNSHIP	ONT	CAN	47, 40	82, 47	410	B(5)	3, 28	85	87, 9	15-18m, 80-90y
34, 200-7030330, 1		1970	GREENLAW TOWNSHIP	ONT	CAN	47, 40	82, 47	410	B(5)	3, 32	84	43, 0	15-18m, 80-90y
34, 200-7030340, 0		1970	BAIN TOWNSHIP	ONT	CAN	49, 52	86, 24	320	B	3, 36	84	92, 5	FIRST KILN
34, 200-7030350, 0		1970	NIPICON	ONT	CAN	49, 11	88, 12	275	S	3, 30	84	90, 0	10m, 30y
34, 200-7030370, 0		1970	CLEARWATER BAY	ONT	CAN	49, 44	94, 49	400	B(3)	2, 94	84	92, 0	7-11m, 65-98y
34, 200-7030430, 0		1970	QUETICO PROV. PARK	ONT	CAN	48, 39	92, 14	400	B(20)	3, 25	84	96, 5	20-28cm, 21-23m, 78y
34, 200-7030430, 1		1970	QUETICO PROV. PARK	ONT	CAN	48, 39	92, 14	400	B(20)	3, 17	84	86, 5	SECOND KILN
34, 200-7030450, 0		1970	GIBI LAKE	ONT	CAN	49, 38	94, 12	370	B(5)	3, 03	84	97, 5	19-24m, 91-103y
34, 200-7030450, 1		1970	GIBI LAKE	ONT	CAN	49, 38	94, 12	370	B(5)	3, 01	84	89, 5	SECOND KILN
34, 200-7040360, 0		1970	LAKE ST MARTIN	MAN	CAN	51, 30	98, 20	335	B(7)	3, 41	84	89, 0	20-21m, 65-80y
34, 200-7040410, 0		1970	LAKE ST MARTIN	MAN	CAN	51, 30	98, 20	335	B(7)	3, 26	84	73, 0	SECOND KILN
34, 200-7040410, 1		1970	FLIN FLON	MAN	CAN	54, 40	101, 47	550	B(2)	3, 91	84	96, 0	15-19m, 49-72y
34, 200-7050390, 0		1970	LAC LA RONCE	SASK	CAN	55, 12	105, 18	370	B(5)	2, 94	84	71, 5	19-22m, 61-85y
34, 200-7050390, 1		1970	LAC LA RONCE	SASK	CAN	55, 12	105, 18	370	B(5)	2, 93	85	87, 0	SECOND KILN
34, 200-7050400, 0		1970	BIG RIVER	SASK	CAN	53, 44	107, 12	490	B(7)	4, 02	84	90, 5	10-12m, 47-50y
34, 200-7050400, 1		1970	BIG RIVER	SASK	CAN	53, 44	107, 12	490	B(7)	4, 16	84	69, 0	SECOND KILN
34, 200-7050400, 1		1971	NIMITZ TWP., CHAPLEAU	ONT	CAN	47, 40	83, 10	460	B	3, 16	79	61, 5	
34, 200-7130330, 0		1971	C.F.B. PETAWANA	ONT	CAN	45, 59	77, 21	145	B150	3, 50	84	88, 5	15-30cm, 15-18m
34, 200-7257430, 0		1972	MONTREAL LAKE	SASK	CAN	54, 16	105, 37	560	N/A	3, 31	84	55, 0	
34, 200-7257450, 0		1972	CANDLE LAKE	SASK	CAN	53, 45	105, 15		N/A	3, 32	84	24, 0	
34, 200-7257460, 0		1972	CHRISTOPHER LAKE	SASK	CAN	53, 34	105, 40		N/A	3, 86	84	56, 0	
34, 200-7330060, 0		1973	C.F.B. PETAWANA	ONT	CAN	45, 57	77, 22	150	B	3, 50	83	97, 0	FIRST KILN
34, 200-7330060, 1		1973	C.F.B. PETAWANA	ONT	CAN	45, 57	77, 22	150	B	3, 27	84	65, 0	SECOND KILN
34, 200-7331420, 0		1973	WELLS TOWNSHIP	ONT	CAN	46, 26	83, 23	220	B(25)	3, 09	84	96, 5	15-21m, 60+y
34, 200-7333410, 0		1973	AUDREY LAKE	ONT	CAN	49, 45	94, 10	460	B120	3, 02	84	96, 5	20-41cm
34, 200-7333680, 0		1973	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 57	77, 22	150	S	3, 60	84	96, 0	
34, 200-7333710, 0		1973	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 57	77, 22	150	S	3, 08	84	86, 0	
34, 200-7333730, 0		1973	PETAWANA NAT. FOR. INST.	ONT	CAN	45, 57	77, 22	150	S	3, 43	84	91, 0	
34, 200-7350080, 0		1973	LA LOCHE	SASK	CAN	56, 22	109, 12	520	B(6)	3, 39	79	67, 5	
34, 200-7350090, 0		1973	MEADOW LAKE	SASK	CAN	53, 54	108, 27	725	B	3, 30	84	85, 5	
34, 200-7350100, 0		1973	MONTREAL LAKE	SASK	CAN	54, 16	105, 37	560	B(7)	3, 36	84	86, 0	
34, 200-7350110, 0		1973	SOUTHERN	SASK	CAN	56, 16	103, 20	440	B(8)	2, 87	84	82, 0	
34, 200-7350120, 0		1973	PRINCE ALBERT	SASK	CAN	53, 14	105, 47	560	B(8)	3, 88	84	82, 0	
34, 200-7350130, 0		1973	HUDSON BAY	SASK	CAN	52, 50	102, 21	410	B(5)	3, 95	84	84, 5	
34, 200-7350140, 0		1973	LA RONCE	SASK	CAN	55, 27	104, 52	415	B(7)	2, 81	84	50, 5	
34, 200-7435330, 0		1974	SHASTIKA	ONT	CAN	47, 30	80, 00		N/A	3, 40	83	99, 0	

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
34.200-7530200.0	1975	C. F. B. PETAWAMA	DNT CAN	45.55	77.29	160	N/A	3.50	83	79.0			
34.200-7630000.0	1976	BRUCE PENINSULA	DNT CAN	45.11	80.32	200	N/A	3.00	84	99.0			
34.200-7827550.0	1978	POINTE A DAVID	QUE CAN	46.45	75.59	244	N/A	4.70	84	96.5			
34.200-7836330.0	1978	HAWK LAKE	DNT CAN	49.45	93.57	460	B	3.08	79	95.8			14-18m. 75-100y
34.200-7836340.0	1978	WELLS TOWNSHIP	DNT CAN	46.25	83.21	230	B	3.29	79	95.3			
34.200-7836350.0	9179.00	GARIBALDI TWP. S.P.A.	DNT CAN	47.14	81.14	380	B	3.17	79	96.8			
34.200-7931650.0	1979	C. F. B. PETAWAMA	DNT CAN	45.57	77.22	160	B	3.50	79	79.8			
34.200-8021950.0	1980	BRIAND	QUE CAN	46.54	76.02	5	S	3.90	84	92.5			15cm. 14m. 40y
34.200-8121300.0	1981	JOLIETTE COUNTY	QUE CAN	47.25	75.20	365	S	3.56	84	87.5			18cm. 16m. 45y
34.200-8130900.0	1981	C. F. B. PETAWAMA	DNT CAN	45.59	75.23	150	B	3.70	82	99.0			
34.200-8330001.0	1983	RENFREW COUNTY	DNT CAN	46.00	77.25	150	N/A	3.41	83	97.0			JEB3-02
34.200-8431460.0	1984	SE OF LONG LAKE	DNT CAN	44.47	79.28	229	B(5)	2.85	85	98.0			
(34.280) PINUS CARIBAEA var. CARIBAEA													
34.280-7866740.0	1978	MARBAJITAS PINAR DEL RIO	CUB CUB	22.00	84.00	B	B	14.40	83	45.0			
34.280-8180140.0	1981	BAHIA HONDA	CUB CUB	20.49	82.58	75	B(25)	15.48	84	74.5			25cm. 15m. 19y
(34.290) PINUS CARIBAEA var. HONDURENSIS													
34.290-8380660.0	1983	POPTUN	GTH	16.21	89.25	500	B150	18.22	84	77.0			
(34.410) PINUS CONTORTA var. CONTORTA (shore pine)													
34.410-7073220.0	1970	RICHMOND	BC CAN	49.10	123.10	35	B	2.67	84	93.0			
34.410-7272070.0	1972	TERRACE	BC CAN	54.52	128.47	150	B	2.49	85	68.5			NO KILN
34.410-7272070.1	1972	TERRACE	BC CAN	54.52	128.47	150	B	2.37	84	70.5			KILN
(34.430) PINUS CONTORTA var. LATIFOLIA (lodgepole pine)													
34.430-5890250.0	1958	CYPRESS HILLS PROV. PARK	SASK CAN	49.40	109.30	1220	B	5.89	83	28.0			
34.430-5960610.0	1959	ALLISON CREEK	BC CAN	49.30	120.30	N/A		3.56	83	74.0			CROW NEST'S PASS
34.430-6881120.0	1968	PRAIRIE CITY	OR USA	44.32	118.34	1500	S	4.50	83	97.0			30cm. 15m
34.430-7060480.0	1970	HINTON	ALTA CAN	53.14	117.26	1480	B	3.48	85	90.0			20-38cm. 12-18m
34.430-7060490.0	1970	KANANASKIS RES. FOREST	ALTA CAN	51.00	115.00	1370	B	4.43	85	75.2			FIRST KILN
34.430-7060490.1	1970	KANANASKIS RES. FOREST	ALTA CAN	51.00	115.00	1370	B	4.37	85	92.0			SECOND KILN
34.430-7160350.0	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	B(5)	3.39	83	89.0			25-29m. 123-145y
34.430-7160350.1	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	B(5)	3.30	85	88.0			SECOND KILN
34.430-7160360.0	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	N/A	3.37	85	85.0			FIRST KILN
34.430-7160360.1	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	N/A	3.41	85	86.0			SECOND KILN
34.430-7160370.0	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	N/A	2.80	85	96.0			FIRST KILN
34.430-7160380.0	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	N/A	3.73	85	75.5			FIRST KILN
34.430-7160390.0	1971	SWAN HILLS	ALTA CAN	54.34	115.29	950	N/A	5.08	85	96.5			FIRST KILN
34.430-7172000.0	1971	FORT ST. JAMES	BC CAN	54.30	124.15	840	B	2.79	85	69.0			
34.430-7172010.0	1971	JACOBIE CREEK	BC CAN	52.32	121.53	990	B	3.16	85	56.2			
34.430-7172020.0	1971	LAC LE JEUNE	BC CAN	50.30	120.36	1300	B	3.87	85	46.5			
34.430-7172030.0	1971	HAZELTON	BC CAN	55.15	127.30	530	B	2.74	85	71.5			
34.430-7172130.0	1971	CLEARWATER	BC CAN	51.40	119.56	530	B	3.48	85	80.0			
34.430-7172140.0	1971	HUDSON HOPE	BC CAN	56.03	121.52	530	B	3.12	85	94.0			
34.430-7186150.0	1971	LA VETA	COLD USA	37.35	105.13	3000	B(20)	5.20	83	86.0			10-40cm. 10-25y
34.430-7267340.0	1972	NORDEGG	ALTA CAN	52.30	116.15	1375	B	3.90	85	44.5			FIRST KILN
34.430-7272040.0	1972	HAZELTON	BC CAN	55.10	127.47	370	B	2.70	85	69.5			FIRST KILN
34.430-7272050.0	1972	MANSON CREEK	BC CAN	55.40	124.30	730	B	2.58	85	86.8			FIRST KILN
34.430-7272060.0	1972	JACOBIE CREEK	BC CAN	52.32	121.50	910	B	3.05	85	85.0			FIRST KILN

SEED LIST/LISTE DES SEMENCES										1000		YEAR %		REMARKS
SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	SEED TSTD	YEAR	% GERM	REMARKS
34. 430-7272280. 0		1972	MILE 101 ALASKA HIGHWAY	BC	CAN	56.45	121.44	880	B	3.27	76	80.5		
34. 430-7272290. 0		1972	ATLIN	BC	CAN	59.35	133.40	750	B	2.72	85	87.0		
34. 430-7272300. 0		1972	TAGISH LAKE	YT	CAN	60.14	134.24	780	B	2.76	85	86.5		
34. 430-7477340. 0		1974	FALKLAND	BC	CAN	50.31	119.40	1300	B	2.67	85	79.0		
34. 430-7477350. 0		1974	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	2.81	85	74.0		
34. 430-7575390. 0		1975	PINETAN	BC	CAN	50.43	119.57	1100	B	3.72	85	57.0		
34. 430-7575410. 0		1975	WATSON LAKE	YT	CAN	60.10	128.50	725	B	2.90	85	83.0		
34. 430-7665180. 0		1976	GRANDE PRAIRIE FOREST	ALTA	CAN	55.10	118.48		B	3.46	83	95.0	FIRST KILN	
34. 430-7665180. 1		1976	GRANDE PRAIRIE FOREST	ALTA	CAN	55.10	118.48		B	3.60	83	91.0	SECOND KILN	
34. 430-7678420. 0		1976	MOBERLY LAKE	BC	CAN	55.40	121.25	750	B	3.00	85	87.0		
34. 430-7678430. 0		1976	FRASER LAKE	BC	CAN	54.12	124.26	850	B	2.90	85	86.9		
34. 430-7678440. 0		1976	BABINE LAKE	BC	CAN	54.24	125.30	1000	B	2.60	85	76.2		
34. 430-7678450. 0		1976	BABINE LAKE	BC	CAN	55.00	124.35	820	B	3.20	78	96.0		
34. 430-7678460. 0		1976	BABINE LAKE	BC	CAN	56.43	121.50	950	B	3.30	78	95.5		
34. 430-7678470. 0		1976	WONWON	BC	CAN	53.40	122.57	820	B	2.90	78	93.5		
34. 430-7678480. 0		1976	BALDY HUGHES	BC	CAN	50.40	119.29	1100	B	3.00	78	78.5		
34. 430-7678490. 0		1976	PEMENT LAKE	BC	CAN	50.40	119.29	1100	B	2.70	83	100.0		
34. 430-7779220. 0		1977	NORTH RANCHERIA	YT	CAN	60.06	129.35	1008	B	2.70	78	77.2		
34. 430-7779227. 0		1977	TAGISH LAKE	YT	CAN	60.14	134.24	777	B	2.70	78	77.2		
34. 430-7779228. 0		1977	CHETWYND	BC	CAN	55.37	121.40	850	B	3.20	78	85.8		
34. 430-7779229. 0		1977	WONWON	BC	CAN	56.43	121.50	950	B	3.30	79	96.5		
34. 430-7779230. 0		1977	VALENDUNT	BC	CAN	52.50	119.13	850	B	3.10	78	96.0		
34. 430-7779231. 0		1977	TELKWA	BC	CAN	54.37	127.03	780	B	3.10	78	97.0		
34. 430-7779232. 0		1977	WONWON	BC	CAN	56.43	121.50	950	B	3.30	78	94.2		
34. 430-7779233. 0		1977	CANOL ROAD	YT	CAN	61.08	132.50	900	B	3.30	83	69.0		
34. 430-7779234. 0		1977	TESLIN	YT	CAN	60.18	132.45	700	B	3.10	78	89.8		
34. 430-7779235. 0		1977	CASSIAR	BC	CAN	56.02	129.00	780	B	3.40	78	95.5		
34. 430-7779236. 0		1977	BALDY HUGHES	BC	CAN	53.40	122.57	820	B	2.90	78	89.5		
34. 430-7779237. 0		1977	HILLISTON	BC	CAN	56.00	122.10	815	B	3.10	78	90.0		
34. 430-7779238. 0		1977	SUWANGA	YT	CAN	60.30	133.45	893	B	3.00	78	70.0		
34. 430-7779239. 0		1977	QUIET LAKE	YT	CAN	60.55	133.00	900	B	2.90	78	74.5		
34. 430-7779240. 0		1977	CARMACKS	YT	CAN	62.08	135.15	620	B	2.80	78	84.5		
34. 430-7779241. 0		1977	SIMPSON LAKE	YT	CAN	60.45	129.10	760	B	3.10	78	82.0		
34. 430-7779242. 0		1977	SINKUT MOUNTAIN	BC	CAN	60.20	134.30	950	B	3.10	78	82.7		
34. 430-7779244. 0		1977	NATION RIVER	BC	CAN	53.50	123.48	910	B	2.90	78	93.2		
34. 430-7779245. 0		1977	FORT ST. JAMES	BC	CAN	55.15	124.10	950	B	2.80	78	83.8		
34. 430-7779246. 0		1977	PRINCE GEORGE	BC	CAN	54.30	124.10	900	B	2.90	83	85.0		
34. 430-7779247. 0		1977	UPPER LIARD RIVER	BC	CAN	54.08	122.15	775	B	3.00	78	93.8		
34. 430-7779248. 0		1977	TESLIN	YT	CAN	60.10	128.50	700	B	3.10	78	83.0		
34. 430-7779249. 0		1977	MACKENZIE	BC	CAN	50.15	132.50	750	B	3.00	83	81.0		
34. 430-7779250. 0		1977	BABINE LAKE	BC	CAN	55.20	123.05	775	B	2.80	78	88.8		
34. 430-7779251. 0		1977	MOBERLY LAKE	BC	CAN	54.24	123.30	1000	B	2.52	83	92.0		
34. 430-7779254. 0		1977	PINK MOUNTAIN	BC	CAN	55.40	121.25	750	B	3.20	83	88.0		
34. 430-7877130. 0		1978	LONG LAKE	BC	CAN	57.00	122.40	1050	B	3.30	79	88.3		
34. 430-7877150. 0		1978	SUWANGA	YT	CAN	60.49	135.06	701	B	3.10	79	94.0		
34. 430-7877160. 0		1978	TAGISH	YT	CAN	60.30	133.45	893	B	2.80	83	76.0		
34. 430-7877170. 0		1978	CARMACKS	YT	CAN	62.08	135.15	620	B	3.10	83	77.0		
34. 430-7877180. 0		1978	SOYA LAKE	BC	CAN	59.50	129.00	780	B	3.00	79	89.8		
34. 430-7877190. 0		1978	TESLIN	YT	CAN	60.18	132.45	760	B	3.10	79	94.2		
34. 430-7974030. 0		1979	ANNIE LAKE	YT	CAN	60.25	134.50	800	B	3.00	79	89.5		

(34 440) PINUS CONTORTA var MURRAYANA

34. 440-6881130. 0

1968 CAMP NELSON

CAL USA 36.06 118.32 2160 5

5.90 83 47.0

91cm. 39m

SEED LIST/LISTE DES SEMENCES

1000
SEED
WEIGHT

SEED BANK NUMBER	MURSELY YEAR COLL	PROVENANCE	PRDV CTRY LAT LONG	ELEV COLL (m)	TYPE	SEED YEAR %	REMARKS
						TSTD GERH	
(34 500) PINUS DENSIFLORA (Japanese red pine)							
34 500-73B3200 0	1973	INATE PREFECTURE	JPN 39 40 141.10E 205 B			11 20 84 80 0	B-12cm, 3-4m, 16y
(34 659) PINUS KESIYA							
34 659-79B0470 0	1979	MAE SAIR	THA 19 00 98 45E 1050 N/A			20 22 84 93 5	
(34 700) PINUS KORAIENSIS (Korean pine)							
34 700-80B1920 0	1980	DAILING, HEILONGJIANG	CHN 47 00 127.00E 800 N/A			464 00 84 25 0	
(34 900) PINUS MONTICOLA [western white (silver) pine]							
34 900-7071810 0	1970	ADAMS LAKE	BC CAN 51 25 119.30 550 B			11 66 83 52 0	
34 900-7679212 0	1976	WEST ADAMS	BC CAN 50 53 119 46 686 N/A			17 11 84 56 0	
34 900-8370630 0	1983	ADAMS LAKE	BC CAN 51 30 119.33 1050 N/A			14 10 84 22 0	
(35 239) PINUS NIGRA var. KOEHLARE							
35 239-81B1290 0	1981	HALLE #504H SEED ORCHARD	BEL 50 44 4 14E			19 29 84 68 0	VIA DR NANSON
(35 260) PINUS OCCARPA							
35 260-77B9211 0	1977	TEMASCALTEPEC-TEJUPILCO	MEX 18 57 100.05 1675 B			24 20 83 88 0	
35 260-77B9212 0	1977	TLAPACOYAN VER.	MEX 17 03 99 58 1250 B			21 60 83 90 0	
35 260-8280546 0	1982	QUINQPE	HND 13 58 87 01 1400 B200			16 91 84 74 0	25-50cm, 15-30m
(35 600) PINUS PONDEROSA (western yellow) pine]							
35 600-7171920 0	1971	FALKLAND	BC CAN 50 30 119 33 685 B			49 27 83 85 0	
35 600-7172100 0	1971	PRITCHARD #1	BC CAN 50 46 119 47 490 B			51 64 83 92 0	
35 600-7172110 0	1971	PRITCHARD #2	BC CAN 50 46 119 47 655 B			45 94 83 69 0	
35 600-7172120 0	1971	PRITCHARD #3	BC CAN 50 46 119 47 640 B			50 50 83 84 0	
(35 900) PINUS RESINOSA (red (Norway) pine]							
35 900-5330590 0	1953	STURGEON FALLS	ONT CAN 46 22 79 55			8 62 83 31 0	
35 900-5780350 0	1957	DELTA COUNTY	MICH USA 46 00 87 00			8 57 83 92 0	
35 900-6030280 0	1960	P. N. F. I. CENTRE LK. PK	ONT CAN 45 57 77 30 300			8 40 83 94 0	
35 900-6630490 0	1966	C. F. B. PETAWANA	ONT CAN 46 01 77 21 175 B			9 61 79 92 6	
35 900-6632340 0	1966	PETAWANA NAT. FOR. INST.	ONT CAN 45 56 77 33 150 B			8 30 83 78 0	
35 900-6632360 0	1966	PETAWANA NAT. FOR. INST.	ONT CAN 45 58 77 24 160 N/A			9 35 83 55 0	
35 900-6730620 0	1967	PETAWANA NAT. FOR. INST.	ONT CAN 45 58 77 30 190 B			9 99 79 84 7	
35 900-6830600 0	1968	SIOUX LOOKOUT	ONT CAN 50 04 91 57 370 B			7 17 79 86 3	18-21m, 140-150y
35 900-6930240 0	1969	DRIFTWOOD PROV. PARK	ONT CAN 46 11 77 51 170 B			8 47 79 93 8	FIRST KILN
35 900-6931500 0	1969	HIGHVIEW	ONT CAN 45 58 77 19 120 B			8 90 83 100 0	FIRST KILN
35 900-6931510 0	1969	HIGHVIEW	ONT CAN 45 58 77 19 120 B			8 50 83 100 0	FIRST KILN
35 900-6931510 2	1969	HIGHVIEW	ONT CAN 45 58 77 19 120 B			8 60 83 100 0	THIRD KILN
35 900-6931520 0	1969	HIGHVIEW	ONT CAN 45 58 77 19 120 B			8 60 83 88 0	FIRST KILN
35 900-6931540 0	1969	C. F. B. PETAWANA	ONT CAN 45 58 77 19 120 B			9 45 79 98 2	FIRST KILN
35 900-6931540 2	1969	C. F. B. PETAWANA	ONT CAN 45 58 77 19 120 B			8 10 83 100 0	THIRD KILN
35 900-6931550 0	1969	C. F. B. PETAWANA	ONT CAN 45 58 77 19 120 B			8 95 79 99 8	FIRST KILN

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
35. 900-6931550. 2	1969	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	B	B	70	83	97. 0	THIRD KILN
35. 900-6931560. 0	1969	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	B	B	9. 00	79	97. 7	FIRST KILN
35. 900-6931570. 0	1969	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	B	B	8. 50	83	95. 0	THIRD KILN
35. 900-6931580. 1	1969	PETAWANA NAT. FOR	INST.	CAN	45. 58	77. 34	210	B	B	8. 55	79	99. 6	FIRST KILN
35. 900-6931580. 2	1969	PETAWANA NAT. FOR	INST.	CAN	45. 58	77. 34	210	B	B	9. 30	83	88. 0	SECOND KILN
35. 900-6931590. 0	1969	PETAWANA NAT. FOR	INST.	CAN	45. 58	77. 34	210	B	B	9. 40	83	100. 0	THIRD KILN
35. 900-7010280. 0	1970	BEAVER LAKE	DNT	CAN	44. 14	65. 20	140	B (10)	B	8. 50	79	99. 8	FIRST KILN
35. 900-7010310. 0	1970	TRACY	NS	CAN	45. 43	66. 42	60	B (5)	B	7. 98	84	98. 0	19-30cm, 9m, 20-30y
35. 900-7023040. 0	1970	NORMAY BAY	QUE	CAN	45. 32	76. 26	80	B	B	8. 45	84	98. 0	1st KILN, 15-38cm
35. 900-7030150. 0	1970	ALICE	DNT	CAN	45. 45	77. 19	150	B	B	8. 91	79	100. 0	
35. 900-7030170. 0	1970	C. F. B. PETAWANA	DNT	CAN	45. 59	77. 22	140	B	B	10. 77	84	51. 5	FIRST KILN
35. 900-7030180. 0	1970	C. F. B. PETAWANA	DNT	CAN	46. 00	77. 19	150	S	B	8. 52	84	98. 0	FIRST KILN
35. 900-7030190. 0	1970	C. F. B. PETAWANA	DNT	CAN	45. 59	77. 22	140	S	B	9. 36	84	99. 5	FIRST KILN
35. 900-7030200. 0	1970	A. E. C. L.	DNT	CAN	46. 01	77. 21	180	B (5)	B	9. 62	84	97. 5	FIRST KILN
35. 900-7030210. 0	1970	DRIFTWOOD PROV. PARK	DNT	CAN	46. 11	77. 51	150	S	B	9. 27	84	93. 5	FIRST KILN
35. 900-7030220. 0	1970	DRIFTWOOD PROV. PARK	DNT	CAN	46. 11	77. 51	150	S	B	7. 95	84	99. 0	FIRST KILN
35. 900-7030230. 0	1970	DRIFTWOOD PROV. PARK	DNT	CAN	46. 11	77. 51	150	S	B (3)	8. 10	84	94. 5	FIRST KILN
35. 900-7030240. 0	1970	DRIFTWOOD PROV. PARK	DNT	CAN	46. 11	77. 51	150	S	B	8. 80	83	100. 0	FIRST KILN
35. 900-7030250. 0	1970	ELDRIDGE TOWNSHIP	DNT	CAN	47. 00	79. 30	310	B	B	7. 77	85	99. 5	21-29m, 189y
35. 900-7030260. 0	1970	MACDIARMID	DNT	CAN	49. 18	88. 05	370	B	B	8. 00	79	98. 3	1st KL. 25-51cm, 105y
35. 900-7030270. 0	1970	AGAWA BAY	DNT	CAN	47. 20	84. 38	210	B (5)	B	8. 38	84	95. 5	10-15m, 40-70y
35. 900-7030290. 0	1970	ATIKOKAN	DNT	CAN	48. 58	91. 47	410	B (30)	B	8. 80	83	97. 0	27-31m, 85-95y
35. 900-7030300. 0	1970	FRENCH LAKE	DNT	CAN	48. 41	91. 47	440	B (45)	B	8. 73	84	99. 5	38-40m, 200-250y
35. 900-7030310. 0	1970	STONECLIFFE	DNT	CAN	46. 12	77. 98	210	B	B	7. 65	79	73. 5	
35. 900-7030320. 0	1970	STONECLIFFE	DNT	CAN	46. 12	77. 98	210	B	N/A	7. 61	79	78. 3	
35. 900-7232200. 0	1972	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	S	B	9. 10	83	98. 0	FIRST EXTRACTION
35. 900-7232220. 0	1972	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	B (3)	B	9. 60	83	100. 0	FIRST EXTRACTION
35. 900-7232230. 1	1972	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	B (3)	B	8. 85	85	93. 5	SECOND EXTRACTION
35. 900-7331400. 0	1973	C. F. B. PETAWANA	DNT	CAN	45. 58	77. 19	120	S	B	8. 07	84	98. 0	
35. 900-7807560. 0	1978	ROBSELS BROOK	NFLD	CAN	49. 14	56. 22	270	B	B	6. 82	83	59. 0	
35. 900-8300683. 0	1983	ALEXANDER BAY STATION	NFLD	CAN	48. 41	54. 05	120	B	B	7. 49	85	72. 0	
(36. 100) PINUS RIGIDA (pitch pine)													
36. 100-8430068. 0	1984	LONG MOUNTAIN	ONT	CAN	44. 29	76. 00	150	B (75)	B	8. 58	84	95. 0	
(36. 190) PINUS STROBIFORMIS (southwestern white pine)													
36. 190-8480008. 0	1984	LINCOLN NAT. FOREST	NM	USA	33. 00	105. 00			N/A	207. 98	84	69. 0	WEEVIL RESISTANT
(36. 200) PINUS STROBUS (eastern white (Meymouth) pine)													
36. 200-5920072. 0	1959	ST CHARLES DE MANDEVILLE	QUE	CAN	46. 17	73. 25	214	N/A	N/A	19. 73	84	50. 5	
36. 200-5930071. 0	2695. 00	P. N. F. I., SQUIRREL RD.	ONT	CAN	45. 53	77. 33	230	B	B	15. 43	84	79. 5	
36. 200-6080062. 0	2875. 00	HAYWARD, SAWYER CO.	WIS	USA	46. 00	91. 25			N/A	17. 85	84	23. 5	
36. 200-6120023. 0	3896. 00	CHICOUTIMI	QUE	CAN	48. 26	71. 04			N/A	14. 93	84	68. 0	LAKE ST JOHN
36. 200-6130022. 0	3785. 00	MONTGOMERY LK., P. N. F. I.	ONT	CAN	45. 56	77. 34			N/A	22. 00	84	85. 5	
36. 200-6630220. 0	1966	PETAWANA NAT. FOR	INST.	CAN	45. 59	77. 25	150	S	B	15. 79	80	86. 5	45cm, 29-31m
36. 200-6630250. 0	1966	C. F. B. PETAWANA	DNT	CAN	45. 55	77. 29	170	S	B	17. 13	85	78. 5	29cm, 22m, 82y
36. 200-6630280. 0	1966	C. F. B. PETAWANA	DNT	CAN	45. 55	77. 29	170	S	B	17. 41	82	98. 1	44cm, 24m, 80y
36. 200-6630290. 0	1966	C. F. B. PETAWANA	DNT	CAN	45. 55	77. 29	170	N/A	N/A	14. 75	85	54. 7	
36. 200-6630330. 0	1966	C. F. B. PETAWANA	DNT	CAN	45. 55	77. 29	170	S	B	16. 10	83	64. 0	60cm, 26m, 81y
36. 200-6630430. 0	1966	PETAWANA NAT. FOR	INST.	CAN	45. 56	77. 33	150	S	B	17. 54	83	60. 0	58cm, 28m, 96y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
36.200-6630440.0	1966	PETAWAHA NAT. FOR	ONT	CAN	45.56	77.33	150	S	15.05	83	65.0	60cm, 30m, 133y
36.200-6630470.0	1966	PETAWAHA NAT. FOR	ONT	CAN	45.56	77.33	150	S	13.70	78	31.5	76cm, 92y
36.200-6630480.0	1966	PETAWAHA NAT. FOR	ONT	CAN	45.56	77.33	150	B(10)	13.23	82	74.5	
6189.00	1966	PETAWAHA RIVER, P. N. F. 1	ONT	CAN	45.56	77.33	150	S	12.46	84	35.0	
6190.00	1966	P. N. F. 1, FUELWOOD AREA	ONT	CAN	45.00	77.30	200	B	13.71	84	26.5	
36.200-6632460.0	1967	PETAWAHA NAT. FOR	ONT	CAN	45.57	77.28	200	B	16.99	78	89.5	
36.200-6730090.0	1967	PETAWAHA NAT. FOR	ONT	CAN	45.57	77.28	200	N/A	18.60	83	39.0	31cm, 15m, 50y
36.200-6730110.0	1967	P. F. E. S. RACE HORSE RD.	ONT	CAN	45.55	77.27	150	N/A	26.30	83	95.0	40cm, 16m, 55y
36.200-6730120.0	1967	PETAWAHA NAT. FOR	ONT	CAN	45.57	77.28	200	N/A	16.85	78	37.0	31cm, 15m, 53y
36.200-6730130.0	1967	PETAWAHA NAT. FOR	ONT	CAN	45.57	77.28	200	N/A	15.30	78	65.5	26cm, 14m, 49y
36.200-6730170.0	1967	PETAWAHA NAT. FOR	ONT	CAN	45.56	77.33	152	N/A	20.54	78	76.0	34cm, 14m, 53y
36.200-6730190.0	1967	PETAWAHA NAT. FOR	ONT	CAN	45.57	77.28	200	N/A	19.25	78	80.0	
36.200-6731760.0	1967	PETAWAHA NAT. FOR	ONT	CAN	46.00	77.27	170	B	22.41	83	98.0	
36.200-7001210.0	1970	NEW DAY POND	NFLD	CAN	49.14	55.32	170	B(15)	17.21	78	73.0	31cm, 17-18m, 100y
36.200-7011270.0	1970	CAMBRIDGE TOWNSHIP	NB	CAN	45.50	66.05	60	B(5)	17.44	78	51.5	
36.200-7031230.0	1970	ATIKOKAN	ONT	CAN	48.38	92.14	400	N/A	11.65	78	67.5	27-30m, 135y
36.200-7031250.0	1970	ELDRIDGE TOWNSHIP	ONT	CAN	47.00	79.30	310	B	13.74	83	66.0	26-34m, 185y
36.200-7031280.0	1970	PARRY SOUND	ONT	CAN	45.20	79.58	210	B(3)	17.36	83	30.0	24-30m, 100-120y
36.200-7031290.0	1970	ANTLER LAKE	ONT	CAN	47.36	83.42	440	B(14)	14.29	78	70.5	24-34m, 150-200y
36.200-7031320.0	1970	PETAWAHA NAT. FOR	ONT	CAN	45.58	77.29	200	N/A	23.97	78	97.5	
36.200-7031340.0	1970	PETAWAHA NAT. FOR	ONT	CAN	45.58	77.29	200	N/A	14.77	78	78.0	
36.200-7031350.0	1970	PETAWAHA NAT. FOR	ONT	CAN	45.58	77.29	200	N/A	19.57	78	91.5	
36.200-7031370.0	1970	PETAWAHA NAT. FOR	ONT	CAN	45.53	77.30	200	B(2)	20.65	83	47.0	
36.200-7230010.0	1972	C. F. B. PETAWAHA	ONT	CAN	45.53	77.30	206	S	21.36	83	90.0	
36.200-7230020.0	1972	BIGGAR LAKE, PETAWAHA	ONT	CAN	45.59	77.25	170	N/A	17.90	83	42.0	
36.200-7230050.0	1972	PETAWAHA NAT. FOR	ONT	CAN	45.59	77.27	180	S	22.91	83	85.0	31cm, 21m
36.200-7230070.0	1972	C. F. B. PETAWAHA	ONT	CAN	45.53	77.30	200	S	14.35	83	82.0	
36.200-7230080.0	1972	PETAWAHA NAT. FOR	ONT	CAN	45.59	77.25	170	N/A	18.57	83	44.0	
36.200-7230090.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	S	19.14	83	92.0	
36.200-7230110.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(3)	20.99	83	96.0	
36.200-7230120.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	N/A	19.94	83	84.0	
36.200-7230130.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(3)	20.67	83	90.0	
36.200-7230140.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(2)	21.25	83	79.0	
36.200-7230150.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(2)	22.16	83	79.0	
36.200-7230170.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	S	20.10	83	64.0	
36.200-7230190.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	S	25.10	83	86.0	
36.200-7230200.0	1972	PETAWAHA NAT. FOR	ONT	CAN	45.55	77.25	170	B(4)	24.60	83	53.0	
36.200-7230220.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	S	20.40	83	88.0	
36.200-7230230.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(3)	23.37	83	92.0	
36.200-7230240.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	N/A	20.83	83	71.0	
36.200-7230250.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	S	22.19	83	96.0	
36.200-7230260.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(3)	24.05	83	86.0	
36.200-7230270.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(3)	20.52	83	99.0	
36.200-7230290.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	S	22.45	83	79.0	
36.200-7230300.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(2)	20.69	83	81.0	
36.200-7230310.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.55	77.25	170	S	27.50	83	98.0	
36.200-7230320.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.55	77.25	170	S	21.60	83	75.0	
36.200-7230340.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.55	77.25	170	S	16.80	83	55.0	
36.200-7230350.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.55	77.25	170	S	15.90	83	65.0	
36.200-7230370.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200	B(3)	22.10	83	82.0	
36.200-7230380.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.58	77.25	168	S	16.70	83	52.0	46cm, 25m
36.200-7230390.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.58	77.25	170	S	15.40	83	92.0	
36.200-7230400.0	1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	206	S	26.20	83	56.0	

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	SEED LIST/LISTE DES SEMENCES				ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
			PROV	CTRY	LAT	LONG						
36. 200-7230410. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200 S	18.10	83	58.0	
36. 200-7230420. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200 S	21.20	83	57.0	
36. 200-7230430. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200 S	17.10	83	83.0	
36. 200-7230440. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200 S	22.20	83	65.0	
36. 200-7230450. 0		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200 S	14.30	83	81.0	
36. 200-7230470. 5		1972	BIGGAR LAKE, C. F. B.	ONT	CAN	45.53	77.30	200 N/A	17.70	83	29.0	FIRST EXTRACTION
36. 200-7331450. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.53	77.30	206 N/A	19.30	83	82.0	
36. 200-7331460. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.26	180 N/A	16.20	83	97.0	
36. 200-7331470. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160 N/A	19.50	83	82.0	
36. 200-7331480. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160 N/A	13.70	83	84.0	
36. 200-7331490. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	160 N/A	19.80	83	97.0	
36. 200-7331500. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	160 S	10.80	83	62.0	
36. 200-7331510. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160 S	15.60	83	67.0	
36. 200-7331520. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.25	180 S	29.40	83	97.0	56cm, 27m
36. 200-7331530. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.26	180 B(2)	20.90	83	64.0	
36. 200-7331540. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160 S	16.40	83	56.0	
36. 200-7331550. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160 S	13.80	83	100.0	
36. 200-7331560. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.26	180 S	14.90	83	93.0	
36. 200-7331570. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.59	77.26	180 B(3)	15.17	83	81.0	
36. 200-7331580. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	46.00	77.25	160 N/A	20.60	83	76.0	
36. 200-7331590. 0		1973	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	77.24	160 S	16.50	83	95.0	
36. 200-7335940. 0		1977	TOWNSHIP 22. RANGE 11	ONT	CAN	46.54	83.48	430 S	11.40	78	69.0	
36. 200-7335950. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	14.10	78	91.0	
36. 200-7335960. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	12.85	78	90.0	
36. 200-7335990. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	13.28	78	89.5	
36. 200-733610. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	15.22	78	98.5	
36. 200-733650. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	11.34	83	32.0	
36. 200-733660. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	18.45	78	96.0	
36. 200-733670. 0		1977	BORDEN TOWNSHIP	ONT	CAN	47.53	83.10	400 S	14.88	78	97.5	
36. 200-733680. 0		1977	PAUDASH TOWNSHIP	ONT	CAN	47.16	81.45	400 S	13.37	78	88.0	91cm, 18m
36. 200-733690. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	16.88	78	98.5	66cm, 24m
36. 200-733700. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	15.99	78	99.5	
36. 200-733710. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	12.62	78	92.0	
36. 200-733720. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	12.09	78	98.0	
36. 200-733730. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	17.31	78	99.0	
36. 200-733740. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	15.88	78	91.0	
36. 200-733750. 0		1977	WALDIE TOWNSHIP	ONT	CAN	46.08	80.50	210 S	16.81	78	91.0	
36. 200-733760. 0		1977	MACAULEY TOWNSHIP	ONT	CAN	45.06	79.18	270 B*	16.76	78	98.5	B(10-15) 80cm, 25m
36. 200-733770. 0		1977	MARIA TOWNSHIP	ONT	CAN	46.00	78.09	290 B	15.08	78	97.0	
36. 200-7931210. 0		1979	DEEP RIVER	ONT	CAN	46.06	77.29	115 B(5)	19.71	83	100.0	
36. 200-7931230. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	20.83	83	98.0	
36. 200-7931240. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	20.93	83	100.0	
36. 200-7931250. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	18.37	83	97.0	
36. 200-7931260. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	16.03	83	100.0	
36. 200-7931270. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	19.20	83	100.0	
36. 200-7931280. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	17.76	83	99.0	
36. 200-7931290. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	16.04	83	95.0	
36. 200-7931300. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	15.62	83	100.0	
36. 200-7931310. 0		1979	CFB PETAHAWA	ONT	CAN	45.59	77.23	150 S	19.90	83	98.0	
36. 200-8100146. 0		1981	GREAT RATTILING BROOK	NFLD	CAN	45.59	77.23	150 S	20.32	83	100.0	46-56cm, 18-28m
36. 200-8233380. 0		1982	PETAHAWA NAT. FOR. INST.	ONT	CAN	45.58	55.32	30 B	20.68	85	88.5	
				ONT	CAN	45.58	77.29	200 B(4)	11.60	84	77.0	

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	SEED LIST/LISTE DES SEMENCES				ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
				SEED	CTRY	LAT	LONG						
(36.300) PINUS SYLVESTRIS (Scotch (Scots) pine)													
36.300-7081650.0		1970	ORLOVSK OBLAST	SUN	53.00	35.00E	B	6.82	84	85.0			
36.300-7081660.0		1970	KIEV OBLAST	SUN	50.00	30.00E	B	6.80	84	62.0			
36.300-7082000.0		1970	ELVA, ESTONIAN SSR	SUN	58.20	26.00E	B	5.80	83	80.0			
36.300-7181900.0		1971	VORU, ESTONIAN SSR	SUN	57.50	27.00E	B	6.00	83	73.0			
36.300-7181910.0		1971	VALGAMAA, ESTONIAN SSR	SUN	57.45	26.00E	B	6.30	83	83.0			
36.300-7333490.0		1973	THESSALON	CAN	46.15	53.24	S	9.80	83	100.0		V-1378	
36.300-7333500.0	9987.00	1973	ANGUS	CAN	44.19	79.53	S	1.65	84	74.5		V-1360-62	
36.300-7383420.0		1973	MURAT	FRA	45.06	2.15E	S	8.10	83	100.0		V-1133-62	
36.300-7383670.0		1973	MORAYSHIRE	SCO	57.33	3.29	S	7.10	83	84.0		ST. 3177-62	
36.300-7486670.0		1974	VILNIAUS, LITHUANIAN SSR	SUN	54.38	25.28E	B	6.60	84	57.0		45cm, 31m, 120y	
36.300-7486580.0		1974	JONAVOS, LITHUANIAN SSR	SUN	55.15	24.20E	B	6.37	84	78.0		42cm, 28m, 110y	
36.300-7486690.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	5.86	84	92.5			
36.300-7486700.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	5.77	84	52.0			
36.300-7486740.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	6.15	84	97.0			
36.300-7486760.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	6.12	84	78.5			
36.300-7486780.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	6.37	84	48.0			
36.300-7486790.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	5.43	84	87.0			
36.300-7486800.0		1974	KAUNO, LITHUANIAN SSR	SUN	54.45	24.05E	N/A	6.15	84	86.5			
36.300-7581490.0		1975	TARTU RES FOR ESTONIAN	SUN	58.22	26.40E	B	5.30	85	95.0			
36.300-8181100.0		1981	NOVOSIBIRSKAYA OBLAST	SUN	55.00	80.00E	B	6.82	84	78.5			
36.300-8181110.0		1981	MARIISKAYA OBLAST	SUN	56.00	47.00E	B	6.30	84	95.5			
36.300-8181120.0		1981	MARIISKAYA OBLAST	SUN	56.00	47.00E	B	6.55	84	90.0			
36.300-8181130.0		1981	TATARSKAYA, ASSR	SUN	53.00	50.00E	B	6.72	84	99.0			
36.300-8181140.0		1981	TATARSKAYA, ASSR	SUN	55.00	50.00E	B	7.02	84	85.0			
36.300-8181150.0		1981	VORONEZHSKAYA OBLAST	SUN	50.30	40.00E	B	8.60	84	92.0			
36.300-8181160.0		1981	ORLOVSKAYA OBLAST	SUN	52.30	37.00E	B	7.27	84	75.5			
36.300-8181170.0		1981	KIEVSKAYA OBLAST	SUN	50.30	30.30E	B	7.54	84	85.0			
36.300-8181180.0		1981	KRASNOYARSKY KRAI	SUN	60.00	90.00E	B	5.62	84	92.5			
36.300-8181190.0		1981	KALUZHKAYA OBLAST	SUN	54.00	35.00E	B	7.38	84	76.5			
36.300-8181200.0		1981	SMOLENSKAYA OBLAST	SUN	55.00	32.00E	B	7.33	84	94.0			
36.300-8181280.0		1981	GROENENDAAL #5028 SOR	BEL	50.50	4.21E	N/A	8.29	84	45.5		FROM K. VANCURA	
36.300-8380654.0		1983	LUTNA, OLESNA	CSK	50.10	13.70E	N/A	6.81	84	73.0		FROM K. VANCURA	
36.300-8380655.0		1983	LITOMERICE, ROUDNICE	CSK	50.30	14.20E	N/A	7.14	84	75.0		FROM K. VANCURA	
36.300-8380656.0		1983	KURIM, TISNOV	CSK	49.30	16.30E	N/A	5.51	84	78.5		FROM K. VANCURA	
36.300-8430094.0		1984	STURGEON LAKE PLAINS	ONT	46.01	77.25	S	6.48	85	97.0		V900 FROM SOC	
36.300-8430095.0		1984	STURGEON LAKE PLAINS	ONT	46.01	77.25	S	7.08	85	99.5		V612 FROM SOC	
36.300-8430096.0		1984	STURGEON LAKE PLAINS	ONT	46.01	77.25	S	7.36	85	97.5		V907 FROM SOC	
(36.350) PINUS SYLVESTRIS var. MONGOLICA													
36.350-7393100.0	9970.00	1973	HEILONGJIANG PROV.	CHN	46.00	126.00E	B	7.50	83	84.0			
36.350-8380670.0		1983	SUNG-HUA-CHIANG	CHN	46.00	127.00E	N/A	7.17	85	79.5			
36.350-8480976.0		1984	KIRIN PROVINCE	CHN	43.00	129.00E	N/A	6.31	85	26.6			
(36.370) PINUS SYLVESTRIS var. RIGENSIS													
36.370-0080001.0		1983	RIGA	SUN	56.53	24.08E	N/A	6.23	84	83.0		VIA VERSEPUY	
(36.600) PINUS THUNBERGII (Japanese black pine)													
36.600-7484340.0		1974	ADMORI PREFECTURE	JPN	40.47	140.20E	B	11.70	84	67.0		32cm, 16m, 51y	

SEED LIST/LISTE DES SEMENCES													
SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV COLL (m)	TYPE	1000 SEED WEIGHT	YEAR TSTD	% GERM	REMARKS
36. 600-6380673. 0		1983	CHANG-WEI, SHANTUNG	CHN		36. 00	120. 00E	100	N/A	10. 72	85	77. 2	
(36. 700) PINUS WALLICHIANA [Himalayan (Bhutan) pine]													
36. 700-8380659. 0		1983	SAGAIMATHA, JUNBESI FOR.	NPL		27. 34	86. 34E	2760	N/A	41. 96	84	91. 0	
(36. 950) PLADYCLADUS ORIENTALIS													
36. 950-8330018. 0		1983	N PELHAH TWP., FORTHILL	ONT	CAN	43. 02	79. 17	200	B(4)	20. 48	83	66. 0	EXOTIC, 6-10cm, 3-4m
(38. 600) POPULUS GRANDIDENTATA (largetooth aspen)													
38. 600-7830530. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 05	85	95. 5	20-30cm, 14-20m
38. 600-7830540. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 09	85	100. 0	
38. 600-7830550. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 08	85	96. 5	
38. 600-7830560. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 08	85	89. 0	
38. 600-7830570. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 09	85	96. 0	
(38. 800) POPULUS TREMULOIDES (trembling aspen)													
38. 800-7830430. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 11	85	61. 0	15-20cm, 12-18m
38. 800-7830440. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 12	85	74. 5	
38. 800-7830450. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 12	85	73. 0	
38. 800-7830460. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 07	85	71. 5	
38. 800-7830470. 0		1978	PETAHAWA NAT. FOR. INST.	ONT	CAN	46. 01	77. 25	150	N/A	. 07	85	56. 0	
(40. 200) PSEUDOTSUGA MENZIESII (douglas-fir)													
40. 200-6470290. 0		1964	QUESNEL	BC	CAN	53. 14	122. 30	820	B	9. 50	84	26. 5	
40. 200-6671200. 0		1966	ELK VALLEY VANCOUVER IS	BC	CAN	49. 45	125. 50	910	B	9. 57	83	48. 0	
40. 200-6772340. 0		1967	NELSON	BC	CAN	49. 30	117. 16	820	B	9. 36	83	65. 0	
40. 200-6772350. 0		1967	FRANKLIN RIVER	BC	CAN	49. 06	124. 46	150	B	8. 97	83	73. 0	
40. 200-6782360. 0		1967	PACKWOOD	WASH	USA	46. 34	121. 40	655	B	8. 58	83	23. 0	
40. 200-6871090. 0		1968	PINETAN	BC	CAN	50. 45	119. 55	840	B	10. 89	84	43. 5	
40. 200-6871100. 0		1968	SHUSHAP LAKE	BC	CAN	50. 55	119. 25	1070	B	10. 74	85	55. 4	
40. 200-6971750. 0		1969	HORSEFLY	BC	CAN	52. 18	121. 19	820	B(15)	8. 33	83	62. 0	30cm, 18m
40. 200-6981760. 0		1969	EUGENE	OR	USA	44. 01	123. 23	210	S	10. 97	83	64. 0	Bcm, 37m
40. 200-6981780. 0		1969	HAPPY CAMP	CAL	USA	41. 57	123. 30	975	S	12. 62	83	58. 0	
40. 200-6981790. 0		1969	COALDALE	CAL	USA	38. 20	105. 50	2300	B(30)	14. 06	83	76. 0	
40. 200-7172040. 0		1971	CLEAR CREEK	NM	USA	36. 03	106. 50	2870	B*	12. 41	83	80. 0	B(10-100)
40. 200-7175610. 0		1971	ADAMS LAKE	BC	CAN	51. 26	119. 28	330	B	8. 94	83	66. 0	
40. 200-7971820. 0		1979	HAT CREEK	BC	CAN	50. 51	121. 30	1000	B	12. 01	84	35. 5	
40. 200-8370637. 0		1983	THADDEUS LAKE	BC	CAN	51. 55	123. 40	1130	B(10)	10. 63	83	87. 0	6-18m, 50-200y
40. 200-8370638. 0		1983	THIRD LAKE	BC	CAN	49. 05	124. 19	250	B(10)	10. 39	84	97. 0	9-18m, 25-35y
40. 200-8370638. 0		1983	CASSIDY	BC	CAN	49. 02	123. 52	45	B(10)	9. 46	84	91. 0	7-15m, 35-50y
(40. 250) PSEUDOTSUGA MENZIESII var. GLAUCA (interior douglas-fir)													
40. 250-8285450. 0		1982	OTERO COUNTY	NM	USA	33. 00	105. 30		N/A	14. 40	84	78. 5	
40. 250-8480009. 0		1984	CLEAR CREEK	NM	USA	35. 30	106. 00		N/A	13. 29	84	86. 0	BLUE NEEDLES
(43. 800) ROBINIA PSEUDOACACIA (black locust)													
43. 800-8230250. 0		1982	LINCOLN TOWNSHIP	ONT	CAN	43. 10	79. 29	172	S	18. 70	83	83. 0	21cm, 11m, 34y

SEED LIST/LISTE DES SEMENCES

SEED BANK NUMBER	NURSERY YEAR NUMBER COLL	PROVENANCE	PRDV CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SEED WEIGHT	YEAR TSTD	%	REMARKS
43.800-8330025.0	1983	CHORLEY PK. TORONTO	ONT	CAN	43.41	79.23	122 B(3)	23.02	84	55.0	B-15cm, 4-13m
(44.920) SORBUS AMERICANA (American mountain ash)											
44.920-8430060.0	1984	INTERSECT'N HWY 127 & 60	ONT	CAN	45.29	78.11	400 B(3)	1.89	84	21.5	4cm, 4m
(46.200) THUJA OCCIDENTALIS (eastern white cedar)											
46.200-6030510.0	1960	PETAWAWA NAT. FDR.	ONT	CAN	45.55	77.28	180 N/A	1.56	84	48.0	RACE HORSE RAPIDS
46.200-8233290.0	23001.00	1982 GOLDEN LAKE RENFREW CO.	ONT	CAN	45.35	77.14	B	1.16	84	73.0	
(46.400) THUJA PLICATA (western red cedar)											
46.400-7272330.0	1972	#C-400, VANCOUVER IS.	BC	CAN	50.11	125.48	430 B	1.15	83	39.0	
46.400-7473130.0	1974	SHUSHAP LAKE	BC	CAN	50.53	119.22	400 B	1.06	83	50.0	
46.400-8370633.0	1983	LANTZVILLE	BC	CAN	49.14	124.00	90 B(6)	.88	84	41.0	25-30m, 60-90y
46.400-8370634.0	1983	YELLOW POINT	BC	CAN	49.03	123.48	61 B(15)	.90	84	40.5	15-23m, 35-80y
(48.100) TSUGA CANADENSIS (eastern hemlock)											
48.100-8430073.0	1984	ALGONGUIN PARK	ONT	CAN	45.17	78.11	490 S	2.78	84	90.5	43cm, 18m
48.100-8430074.0	1984	ALGONGUIN PARK	ONT	CAN	45.17	78.11	490 S	2.80	84	82.0	46cm, 23m
48.100-8430075.0	1984	DENBIGH	ONT	CAN	45.09	77.10	300 B(3)	3.13	84	66.0	35-45cm, 18m
(48.500) TSUGA MERTENSIANA (mountain hemlock)											
48.500-8270955.0	1982	SPRAT LAKE	BC	CAN	49.18	129.07	900 B(10)	2.14	85	65.0	40cm, 15-30m, 150y
48.500-8270956.0	1982	THEODOSIA	BC	CAN	50.10	126.30	1150 B(4)	2.38	85	32.0	30cm, 24m, 100y
(49.100) ULMUS AMERICANA (white (American) elm)											
49.100-7630520.0	1978	PEMBROKE	ONT	CAN	45.48	77.08	150 S	6.83	84	38.0	
49.100-8430032.0	1984	PEMBROKE	ONT	CAN	45.48	77.08	150 S	4.74	84	36.5	
49.100-8430033.0	1984	PEMBROKE	ONT	CAN	45.48	77.08	150 S	5.87	84	33.0	
(49.115) ULMUS GLABRA (Scotch elm)											
49.115-8580008.0	1985	HELSINKI	FIN	FIN	60.16	25.00E	B(25)	10.35	85	29.0	
(49.120) ULMUS LAEVIS (European white elm)											
49.120-8580009.0	1985	HELSINKI	FIN	FIN	60.16	25.00E	B(6)	6.37	85	60.0	

APPENDICES
ANNEXES

- A. Key for country codes
Code des pays

- B. Key for province and state
codes
Code des provinces et des
États américains

APPENDIX A
ANNEXE A

Key for country codes¹
Code des pays²

<u>Country Code</u> <u>Code des pays</u>	<u>Meaning</u> <u>Signification</u>
BEL	BELGIUM/BELGIQUE
BRG	BULGARIA/BULGARIE
CAN	CANADA
CHN	CHINA/CHINE
CSK	CZECHOSLOVAKIA/TCHÉCOSLOVAQUIE
CUB	CUBA
DEU	WEST GERMANY/RÉPUBLIQUE FÉDÉRALE D'ALLEMAGNE
FIN	FINLAND/FINLANDE
FRA	FRANCE
GTM	GUATEMALA
HND	HONDURAS
ITA	ITALY/ITALIE
JPN	JAPAN/JAPON
MEX	MEXICO/MEXIQUE
NPL	NEPAL/NÉPAL
POL	POLAND/POLOGNE
ROM	ROMANIA/ROUMANIE
SCO	SCOTLAND/ÉCOSSE
SUN	USSR/URSS
SWE	SWEDEN/SUÈDE
THA	THAILAND/THAÏLANDE
USA	UNITED STATES/ÉTATS-UNIS

¹From International Organization for Standardization (1981).

²De l'Organisation internationale de normalisation (1981).

APPENDIX B
ANNEXE B

Key for province and state codes
Code des provinces et des États américains

<u>Province and state code</u> <u>Code des provinces et des</u> <u>États américains</u>	<u>Meaning</u> <u>Signification</u>
ALAS	ALASKA
ALTA	ALBERTA
BC	BRITISH COLUMBIA/COLOMBIE- BRITANNIQUE
CAL	CALIFORNIA/CALIFORNIE
COLO	COLORADO
ID	IDAHO
MAN	MANITOBA
ME	MAINE
MICH	MICHIGAN
MINN	MINNESOTA
NB	NEW BRUNSWICK/NOUVEAU-BRUNSWICK
NFLD	NEWFOUNDLAND/TERRE-NEUVE
NM	NEW MEXICO/NOUVEAU-MEXIQUE
NS	NOVA SCOTIA/NOUVELLE-ÉCOSSE
NY	NEW YORK
ONT	ONTARIO
OR	OREGON
PEI	PRINCE EDWARD ISLAND/ÎLE-DU-PRINCE- ÉDOUARD
QUE	QUÉBEC
SASK	SASKATCHEWAN
WASH	WASHINGTON
WIS	WISCONSIN
YT	YUKON TERRITORY/TERRITOIRE DU YUKON

