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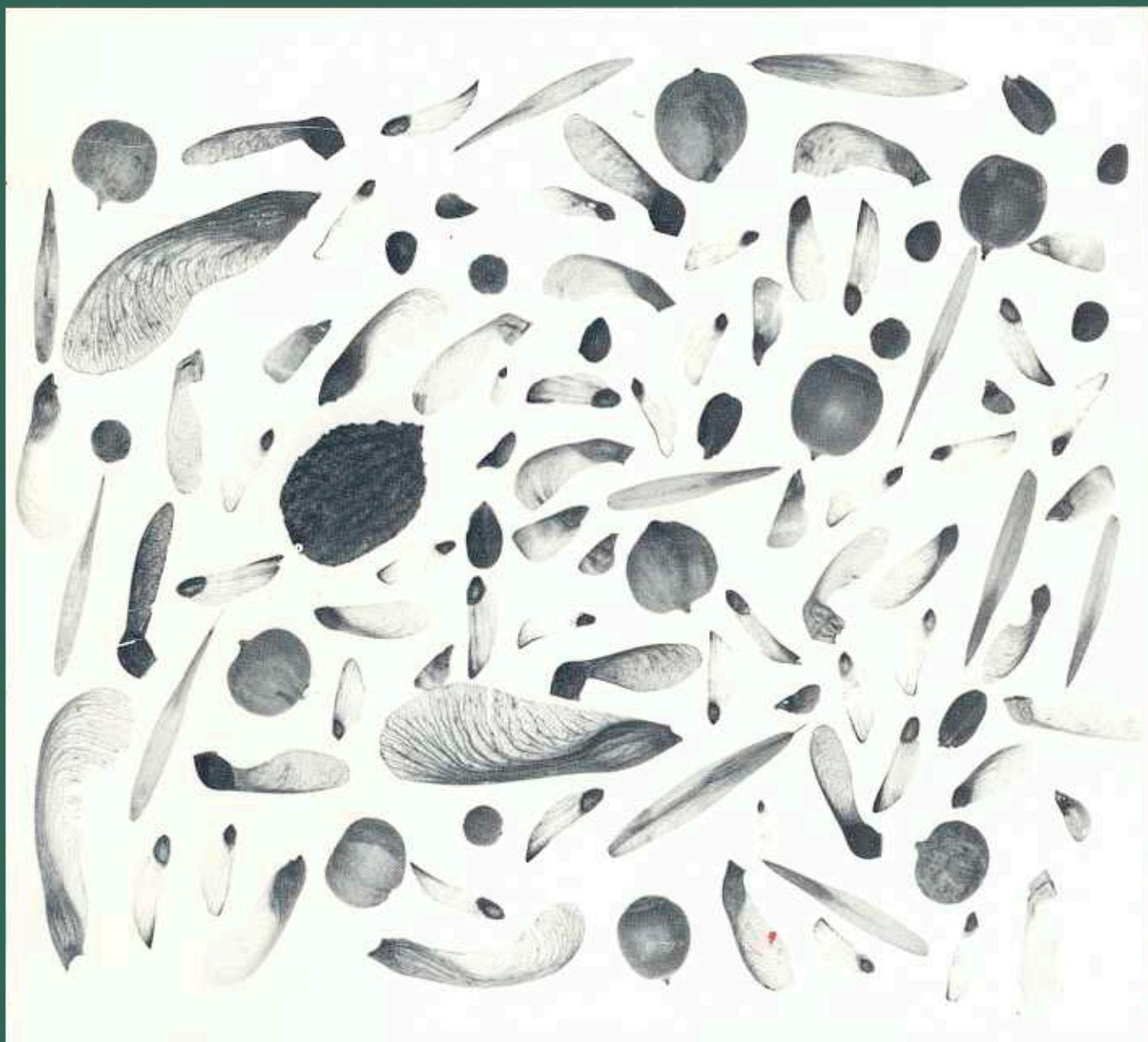
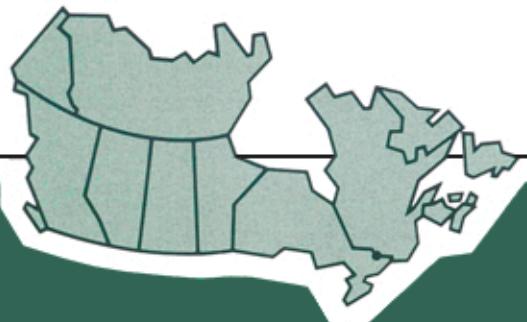
Service
canadien des
forêts

A List of Seed in the Canadian Forestry Service Seed Bank

Liste des semences de la banque de semences du service canadien des forêts

P.S. Janas

Information Report PI-X-39 E/F
Petawawa National Forestry Institute



AYSX

INSTITUT FORESTIER NATIONAL DE PETAWAWA

L'Institut forestier national de Petawawa (IFNP) a été créé le 1^{er} avril 1979, suite au fusionnement de la Station expérimentale forestière de Petawawa et de deux Instituts établis à Ottawa: celui de l'aménagement forestier et celui de la recherche sur les feux de forêt. En 1980, est venue s'y adjoindre la Direction de la statistique forestière et des systèmes.

Son mandat, comme celui des autres établissements du Service canadien des forêts, est de promouvoir une meilleure gestion et une utilisation plus rationnelle des ressources forestières du Canada, pour le bien économique et social de tous les Canadiens. En tant qu'Institut national, il doit s'attacher à des problèmes qui débordent le cadre régional ou qui nécessitent des compétences particulières de même qu'un équipement coûteux, non disponible aux installations régionales du Service canadien des forêts. La plupart du temps, ses recherches sont effectuées en étroite collaboration avec le personnel des centres régionaux ou des services forestiers des provinces.

L'institut mène en parallèle deux grands programmes de recherche:

RECHERCHES SUR LES FEUX ET EN TÉLÉDÉTECTION. D'immenses étendues de terres forestières productives sont ravagées chaque année au Canada par les feux de forêt. Les recherches portent sur le comportement des feux de forêt, sur de nouvelles méthodes pour les combattre. Elles s'attardent aussi à l'évaluation de matériel d'extinction et de retardateurs. Elles s'intéressent encore au développement de systèmes informatisés de défense contre les incendies, systèmes que ne tardent pas à utiliser les organismes qui, à travers le pays, luttent contre les feux. Quel est l'impact des feux de forêt sur l'environnement et l'économie et comment, en sylviculture, tirer parti du feu pour un aménagement intensif des forêts, demeurent aussi la préoccupation des chercheurs.

En télédétection, la recherche veut exploiter les récentes techniques aéroportées et spatiales. À cet égard, ARIES, le système de traitement des images numériques s'avère des plus intéressants.

AMÉNAGEMENT INTENSIF DES FORÊTS. Alors que le Canada accentue ses efforts d'aménagement forestier pour répondre à une hausse prévue de la demande de bois, le rôle de ce programme d'aménagement à l'Institut prendra de plus en plus d'importance. Nul doute qu'un vaste programme de régénération intensive va nécessiter un approvisionnement sûr en semences de haute qualité des espèces voulues. En vue de constituer un meilleur stock de matériel sur pied, des recherches pour l'amélioration génétique des arbres forestiers sont grandement souhaitables. Si l'utilisation accrue de toute la partie aérienne de l'arbre (la biomasse) reste un objectif à atteindre, il faudra cependant étudier avec soin son incidence sur l'environnement; et l'on devra faire de même pour toute autre forme d'aménagement intensif. Des méthodes bio-technologiques permettant d'accroître le rendement tout en maintenant la productivité sont aussi à l'étude.

Pour mener à bien ses programmes de recherche, l'Institut dispose d'une superficie forestière de 98 km² dans la partie ouest de la réserve militaire de Petawawa. Il conserve, depuis les années 20, les registres des expériences et depuis cette même époque ne cesse d'aménager des placettes d'échantillonnage. La forêt sert également de laboratoire pour les écoles de la région. De plus, un centre d'accueil reçoit des visiteurs tout au long de l'été.

La Direction de la statistique forestière et des systèmes (DSFS), établie à l'Institut, est chargée de recueillir et de publier les données sur les ressources forestières du Canada. L'entremise du comité de l'inventaire des forêts, formé de responsables du fédéral et des provinces, facilite grandement ses rapports avec les organismes forestiers provinciaux pour améliorer et uniformiser les données sur ces ressources.

Par l'intermédiaire du programme FORSTATS, qui implique tous les centres régionaux du Service canadien des forêts, la DSFS coordonne, au sein de ce Service, la cueillette et la publication de statistiques nationales sur les forêts du Canada.

À tous les cinq ans, elle publie un inventaire des forêts du Canada. Ce rapport officiel renseigne sur les lieu, superficie, espèces et état de nos forêts. Ses nombreux contacts avec les provinces visent aussi à réunir le plus de données possibles sur les perturbations survenues en forêt: feux, récoltes, insectes, maladies, et opérations d'aménagement. Ces données sont essentielles pour planifier des stratégies à même de favoriser l'aménagement de cette ressource naturelle renouvelable et combien importante.

LIST OF SEED IN THE
CANADIAN FORESTRY SERVICE
SEED BANK

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

P.S. Janas

Information Report

Rapport d'information

PI-X-39 (E/F)
1984

Petawawa National Forestry Institute
Canadian Forestry Service
Environment Canada

Institut forestier national de Petawawa
Service canadien des forêts
Environnement Canada

issued under the authority
of the Minister, Environment Canada

Publication autorisée par le ministre,
Environnement Canada

©Minister of Supply and Services Canada
1984
Catalogue No. Fo46-11/39-1984E
ISSN 0714-3354
ISBN 0-662-13356-0

©Ministre des Approvisionnements
et Services Canada 1984
Nº de catalogue Fo46-11/39-1984F
ISSN 0714-3354
ISBN 0-662-92736-2

Additional copies of this publication
can be obtained from:

Technical Information and Distribution
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Petawawa National Forestry Institute
Environment Canada
Chalk River, Ontario
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Manuscript approved for publication: 6 July 1984

Manuscrit approuvé pour publication: 6 juillet 1984

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 PS-X-13. Reference is made to the procurement of seed and to 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 Canadian Forestry Service regional research centres, provincial forest services, forest industries, and other federal agencies. Several were

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 recherche à la banque de semences du Service canadien des forêts, à l'Institut forestier national de Petawawa; il remplace le rapport d'information PS-X-13. Il indique aussi la façon de se les procurer et de maintenir leur qualité.

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 de l'IFNP qui obtient de différents organismes des graines d'essences très variées et de pays très divers veille à les garder dans des chambres frigorifiques. Ces semences d'arbres et arbustes forestiers indigènes et exotiques, le présent rapport montre comment les chercheurs, par l'intermédiaire de la banque de semences, peuvent se les procurer.

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 recherche régionaux du Service canadien des forêts, certains par les services forestiers provinciaux, les industries forestières

procured through exchange with foreign agencies or purchased from seed dealers in Canada and abroad.

The control of seed origin is maintained by collecting seed from natural stands at identified locations only or from planted trees of known origin. The seed bank now includes seed from trees that have been intensively selected over several generations for superior growth rate and form (e.g., *Larix spp.*). 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.

et des organismes fédéraux. Des lots 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. La banque de gènes contient actuellement des semences d'arbres qui ont fait l'objet d'une sélection intensive pendant plusieurs générations dans le but d'en améliorer la croissance et la forme (ex. *Larix spp.*). 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 obtenir un échantillon représentatif de l'ensemble des gènes de la 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, 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.

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 des 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 semences de la banque constituent entre autres, un matériel biologique de choix pour la recherche sur les provenances et dans plusieurs cas, ils ont été préparés en collaboration avec des généticiens du Service canadien des forêts.

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 has demonstrated the ability to retain viability over a number of years of storage in the facilities available are listed. Seed of those species that are difficult to store (e.g., Acer saccharinum, Fagus grandifolia, Juglans nigra, Populus deltoides, 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:

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

where q is amount of seed in grams.

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

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 sur la liste. Dans le cas d'espèces dont les semences sont difficiles à entreposer (ex. Acer saccharinum, Fagus grandifolia, Juglans nigra, Populus deltoides and 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 de Native Trees of Canada (Hosie 1979) 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:

$$q = \frac{(\text{masse de 1000 semences}) (\# \text{ semis})}{10 (\% \text{ germination})}$$

où q représente la quantité de semences en grammes.

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

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SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCE	NOMBRE DE LOTS DE SEMENCES PAR ESSENCE	NOMBRE DE SEEDLOTS PER SPECIES
ABIES ALBA (European silver fir)	2	2
ABIES BALSAMEA (balsam fir)	29	29
ABIES BALSAMEA var. PHANEROLEPIS	1	1
ABIES FIRMA (Japanese fir)	1	1
ABIES GRAMIFOLIA (strand fir)	1	1
ABIES LASIOCOPA (alpine fir)	5	5
ABIES NORIMANNIANA (Norway fir)	1	1
ACER JAPONICUM (Japanese maple)	1	1
ACER NEGUNDIO (Manitoba maple; boxelder)	2	2
ACER PLATANOIDES (Norway maple)	9	9
ACER PSEUDOPLATANUS (sycamore maple)	2	2
ACER RUBRUM (red (soft) maple)	71	71
ACER SACCHARUM (sugar (hard) maple)	8	8
AESCULUS HIPPOCASTANUM (common horsechestnut)	1	1
ALNUS CRISPRA (green alder)	18	18
ALNUS BLUTINOSA (black alder)	7	7
ALNUS INCANA (grey (European) alder)	5	5
ALNUS JAPONICA	1	1
ALNUS RUBRA (red (green) alder)	27	27
ALNUS SINUATA (silk alder)	34	34
ALNUS TENUEFOLIA (mountain alder)	149	149
BETULA ALLEGHANIENSIS (yellow birch)	60	60
BETULA OCCIDENTALIS (water (black) birch)	45	45
BETULA PAPYRIFERA (paper birch)	1	1
BETULA PENDULA (silver (weeping) birch)	39	39
BETULA POPULIFOLIA (sycamore birch)	4	4
BETULA PUBESCENS (downy birch)	1	1
BETULA VERMUCOSA (European white birch)	1	1
CARYA CORDIFORMIS (bitternut hickory)	2	2
CARYA GLabra (pignut hickory)	1	1
CARYA LACINIOSA (big shellbark hickory)	1	1
CARYA Ovata (shagbark hickory)	1	1
CATALPA SPECIOSA (catalpa)	1	1
CHAMAECYPARIS LAWSONIANA (Port-Orford-cedar)	1	1
FRAXINUS AMERICANA (white ash)	1	1
FRAXINUS PENNSYLVANICA (red ash)	92	92
GLEDTIA TRIACANTHOS (honey-locust)	1	1
KOELREUTERIA PANICULATA (golden rain tree)	1	1
LARIX DECIDUA (European larch)	14	14
LARIX DECIDUA var. POLONICA	1	1
LARIX EUROLEPIS (punkie larch)	5	5
LARIX Gmelini (Dahurian larch)	4	4
LARIX Gmelini var. JAPONICA	1	1
LARIX Gmelini var. OLGENSIS	2	2
LARIX Gmelini var. PRINCIPIS	2	2
LARIX LARicina (tamarack; eastern larch)	43	43

SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCES	NUMBER OF SEEDLOTS PER SPECIES	NUMBER OF LOTS DE SEMENCES PAR ESSENCE
LARIX LEPTOLEPIS (Japanese larch)	53	
LARIX OCCIDENTALIS (Western larch)	1	
LARIX POTANINI (Tibetan larch)	2	
LARIX SIBIRICA (Siberian larch)	10	
METASEQUOIA GYPTOSTROBOLOIDES (dawn redwood)	1	
PICEA ABIES (Norway spruce)	21	
PICEA ASPERATA (Dragon spruce) Chinese spruce)	1	
PICEA BICOLOR	1	
PICEA BRACHYTyla var. COMFLANTA	1	
PICEA ENGELMANNII (Engelmann spruce)	1	
PICEA GLAUCA (white spruce)	5	
PICEA GLENNII (Sakhalin spruce)	628	
PICEA KOIDZUMAE (Koyama spruce)	1	
PICEA LINIANGENSIS (Lihiang spruce)	1	
PICEA MARiana (black spruce)	1	
PICEA MEYERI	34	
PICEA OBOVATA (Siberian spruce)	1	
PICEA OMORIKA (Serbian spruce)	1	
PICEA ORIENTALIS (oriental spruce)	1	
PICEA PUNGENS var. GLAUCA (Colorado blue spruce)	1	
PICEA PURPUREA	4	
PICEA RUBENS (red spruce)	20	
PICEA SCHRENkIANA (Schrenk's spruce)	1	
PICEA Sitchensis (Sitka spruce)	1	
PICEA WILSONII	26	
PINUS BANKSIANA (Jack pine)	1	
PINUS CARIBaea VAR CARIBaea	84	
PINUS CONTORTA var. CONIFERA (shore pine)	1	
PINUS CONTORTA var. LATIFOLIA (lodgepole pine)	3	
PINUS CONTORTA var. MURRAYANA	03	
PINUS DENSIFLORA (Japanese red pine)	1	
PINUS ELLIOTTII (slash pine)	1	
PINUS FLEXILIS (limber (Rocky Mountain white) pine)	1	
PINUS HALEPENSIS (Aleppo pine)	1	
PINUS KOREANIa (Korean pine)	1	
PINUS MONTICOLA (western white (silver) pine)	3	
PINUS NIGRA (Austrian pine)	23	
PINUS NIGRA var. BANATICA	?	
PINUS NIGRA var. KOEKELARE	1	
PINUS DOCARPA	2	
PINUS PARVIFLORA (Japanese white pine)	1	
PINUS Ponderosa (Ponderosa (western yellow) pine)	5	
PINUS RESINOSA (red (Norway) pine)	4	
PINUS ROXBURGHII	1	
PINUS STROBUS (Eastern white (Massachusetts) pine)	135	
PINUS STROBUS VAR CHIAPENSIS	1	

SPECIES LIST/LISTE DES ESSENCES

SPECIES/ESSENCES
=====

	NUMBER OF SEEDLOTS PER SPECIES	NOMBRE DE LOTS DE SEMENCES PAR ESSENCE
PINUS SYLVESTRIS (Scots) pine]	49	49
PINUS SYLVESTRIS var. HONGOLICA	2	2
PINUS SYLVESTRIS var. RIGEHSIS	1	1
PINUS THUNBERGII (Japanese black pine)	1	1
PINUS WALLICHIANA (Himalayan (Bhutan) pine)	1	1
PLATYCLADUS ORIENTALIS	1	1
PLATANUS OCCIDENTALIS (American plane (sycamore))	1	1
PRUNUS SEROTINA (black cherry)	2	2
PSEUDOTSUGA MENZIESII (douglas-fir)	24	24
PSEUDOTSUGA SINENSIS (Chinese douglas-fir)	2	2
PTELEA TRIFOLIATA (chop-tree)	1	1
KORINA PSEUDOACACIA (black locust)	2	2
SEQUOIADENDRON GIGANTEUM (giant sequoia)	1	1
THUJA OCCIDENTALIS (eastern white cedar)	7	7
THUJA PLICATA (western red cedar)	7	7
TILIA AMERICANA (chasswood American linden)	6	6
TILIA CORDATA (small-leaved lime)	1	1
TILIA PLATYPHYLLIS (large-leaved lime)	3	3
TSUGA CANADENSIS (eastern hemlock)	6	6
TSUGA CHINENSIS VAR TCHEKIANGENSIS	1	1
TSUGA DIVERSIFOLIA (northern Japanese hemlock)	1	1
TSUGA FORESTII	1	1
TSUGA HETEROPHYLLA (western hemlock)	3	3
ULMUS AMERICANA (white (American) elm)	1	1

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

2133

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 récolte
PROV	<ul style="list-style-type: none"> Canadian province or American state (consult Appendix A for full name) Province canadienne ou Etat 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 récolte en degrés et minutes
LONG	<ul style="list-style-type: none"> Longitude of collection in degrees and minutes Longitude du lieu de récolte en degrés et minutes
ELEV	<ul style="list-style-type: none"> Elevation of collection in metres Altitude du lieu de 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 Types de récolte: 'S' signifie 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 croisement par pollinisation dirigée; 'SP' signifie autopollinisation; 'SQ' indique une récolte par des écureuils.

- | | |
|------------------|---|
| 1000 SEED WEIGHT | <ul style="list-style-type: none">. Average weight in grams of 1 000 seeds. Poids moyen de 1 000 semences en grammes |
| YEAR TSTD | <ul style="list-style-type: none">. Year of most recent germination test. Année du test de germination le plus récent |
| % GERM | <ul style="list-style-type: none">. Result from most recent germination test; if blank, no germination information is available. Résultat du plus récente test de germination; un espace inocupé signifie que l'on ne dispose pas de renseignements sur la germination |
| REMARKS | <ul style="list-style-type: none">. 'ST....' identifies select tree from which collection was made. 'V....' refers to PNFI clone number. 'ST....' identifie l'arbre sélectionné pour la récolte des semences. 'V....' renvoie au numéro de clone de l'IFNP |

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COL.	PROVENANCE	FROM	CTRY	LAT	LONG	FLEW	COLL (#)	SEED TYPE	WEIGHT	TEST	YEAR	%	REMARKS	
1,00-00B0006.0	1,00-03B0643.0	1963	GERARDIER	STATION	FRA	48.04	6.54E	N/A	43.96	84	3A.5	2R.5	UTA	UTA	UTA	UTA	
1,00-03B0643.0	1983	MARGERTHE KUHNATNS		STATION	FRA	45.00	3.30E	N/A	46.74	84	2R.5	VIA	VIA	VIA	VIA	VIA	
(1,300) ARIES ALBA (European silver fir)																	
1,300-6030290.0	5	96-60	1960	PEI, FOR, EXP.	ONT	CAN	45.58	77.24	1.60	N/A		7.54	R3	24.0			
1,300-6632380.0	5	179-66	1966	PEI, FOR, EXP.	ONT	CAN	45.58	77.24	1.60	B		10.06	R4	41.0			
1,300-7034170.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	65	S		6.83	R4	30.0	CRF+S, 0.41, 1.4cm, dm		
1,300-7034180.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S		7.82	R4	31.0	CRF+S, 0.42, 1.4cm, dm		
1,300-7034190.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	74	S		7.48	R4	59.0	CRF+S, 0.43, 1.4cm, dm		
1,300-7034200.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	68	S		7.73	R4	43.0	CRF+S, 0.44, 1.2cm, 9m		
1,300-7034220.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S		8.67	R4	51.0	CRF+S, 0.46, 1.2cm, 9m		
1,300-7034230.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S		8.76	R4	58.0	CRF+S, 0.47, 1.3cm, dm		
1,300-7034240.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	67	S		8.96	R4	27.0	CRF+S, 0.48, 1.2cm, dm		
1,300-7034250.0			1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45.25	75.34	65	S		8.47	R4	20.0	CRF+S, 0.49, 1.4cm, 7m		
1,300-7311350.0			1973	CAUDIA FOR., EXP., STA.	NR	CAN	46.00	66.15	120	N/A		8.48	R3	42.0			
1,300-7311360.0			1973	CAUDIA FOR., EXP., STA.	NR	CAN	46.00	66.15	120	N/A		7.90	R3	45.0			
1,300-7432000.0			1974	FFI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		9.09	R3	39.5	1.3cm, 1.1m		
1,300-7432010.0			1974	FFI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		8.44	R3	25.0	1.5cm, 1.3m		
1,300-7432030.0			1974	FFI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		10.10	R3	62.0	1.5cm, 1.1m		
1,300-7432040.0			1974	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		9.74	R3	34.2	1.9cm, 1.4m		
1,300-7432060.0			1974	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		8.06	R3	33.5	1.3cm, 0.9m		
1,300-7432080.0			1974	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		8.00	R3	78.5	1.0cm, 0.8m		
1,300-7832250.0			1978	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	R		13.20	R3	41.0			
1,300-7832260.0			1978	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	R		11.15	R3	69.0	61, 359.1		
1,300-7832270.0			1978	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		10.22	R3	81.0	61, 359.2		
1,300-7832280.0			1978	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		9.53	R3	43.0	61, 359.3		
1,300-7832290.0			1978	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		10.67	R3	43.0	61, 359.4		
1,300-7832300.0			1978	PEI, FOR, EXP., STATION	ONT	CAN	45.58	77.24	1.60	S		8.06	R3	31.5	61, 359.5		
1,300-7931160.0			1979	PEI, NAT, FOR, INSTIT.	ONT	CAN	45.58	77.28	1.60	S		9.86	R3	36.5			
1,300-7931180.0			1979	PEI, NAT, FOR, INSTIT.	ONT	CAN	45.58	77.28	1.60	S		9.82	R3	56.7			
1,300-7931190.0			1979	PEI, NAT, FOR, INSTIT.	ONT	CAN	45.58	77.28	1.60	S		9.72	R3	59.2			
1,300-7931200.0			1979	PEI, NAT, FOR, INSTIT.	ONT	CAN	45.58	77.28	1.60	S		9.74	R3	59.2			
1,300-82B4670.0			1982	PITTSTON FARM	ME	USA	45.45	69.45	N/A			10.18	R3	25.0			
(1,350) ARIES GAL SAKHEA VAR. PHANEROPHYLLIS																	
1,350-7003940.0			1970	GRAND FALLS	NFLD	CAN	48.55	55.53	110	R(2)		R.03	R3	47.5	1.5-2.5cm, 5-11m, 75g		
(1,450) ARIES FIRMA (Japanese fir)																	
1,450-7464380.0			1974	SHIZUOKA PREFECTURE	JPN	35.09	137.54	660	R		A.03	R3	21.57	R3	34.5	3.6cm, 7.3-24m, 1.0kg	
(1,500) ARIES GRANDIS (Swedish fir)																	
1,500-7473860.0			1974	VICTORIA	BC	CAN	48.29	123.26	90	R(3)		47.10	R3	28.0			

SEED LIST

SEEID	BANK NUMBER	NURSERY NUMBER	YEAR	PROV	CTRY	LAT	LONG	ELFO (m.)	CUL. TYPE	WEIGHT (g.)	TSTI	GFRN	1000 REMARKS
<i>{ 1,600) ARIES LASIONOTRAPA (alpine fir)</i>													
1,600-7473110,0	1974	HONGSHEE, HUINHAI	BC	CAN	51.05	116.35	1830	E	9.06	B3	52.5		
1,600-7473120,0	1974	SHUNSWAP LAKE	BC	CAN	50.58	119.30	1370	H	0.28	B3	54.0		
1,600-7473870,0	1974	HANNING FRY, PARK	BC	CAN	49.05	120.45	1220	S	7.36	B3	84.5	76cm+9m	
1,600-7472310,0	1974	HGTIL WRAY LAKE	BC	CAN	50.51	119.51	1448	H	0.00	B3	37.0		
1,600-7971630,0	1979	HEDSONS BAY MOUNTAIN	BC	CAN	54.47	127.15	1130	H(G)	0.34	B3	66.5	10-25cm+6-15m	
<i>{ 1,670) ARIES HIRTIFOLIATA (Northern fir)</i>													
1,670-0080007,0	1983	CHAROLLING MOUNTAINS	FRA	46.30	4.30E				N/A	46.74	B4	40.0	0IA. OF-RESERVE
<i>{ 2,290) ACER JAPANTINUS (Japanese maple)</i>													
2,290-03300074,0	1983	MOUNT PIASSANI CEMETERY	ONT	CAN	43.42	79.23	150	H(3)	3.5.7)	N/A			64% FRESH
2,350-03300024,0	1983	SHERWOOD PK, TORONTO	ONT	CAN	43.43	79.23	152	S	40.94	B4	10.7	12cm+6m	
2,350-03300032,0	1983	SHERWOOD PK, TORONTO	ONT	CAN	43.43	79.23	150	S	20.57	B4	30.6	13cm+6m	
<i>{ 2,350) ACER PLATANOIDES (Norway maple)</i>													
2,350-7230510,0	1972	OTTAWA	ONT	CAN	45.25	75.42		N/A			0.4		
2,350-7683970,0	1974	UTERSK ORLAST, U.S.S.R.	SUN	SUN	55.00	30.00E		S			**		
2,350-7684000,0	1976	UTERSK ORLAST, U.S.S.R.	SUN	SUN	55.00	30.00E		S			84		
2,350-B1B0990,0	1981	CHERKEZSKAYA OBL AST	SUN	SUN	44.00	42.00E		S			0.2%		
2,350-B1B1000,0	1981	UTERSK OBL AST	SUN	SUN	49.00	28.00E		S			0.4		
2,350-B330026,0	1983	SHEKWOOD PARK, TORONTO	ONT	CAN	43.43	79.23	150	H			94%		
2,350-B330137,0	1983	SHERWOOD PARK, TORONTO	ONT	CAN	43.43	79.23	150	S	36.9.27	B4		FRESH	
2,350-B330439,0	1983	SHERWOOD PARK, TORONTO	ONT	CAN	43.43	79.23	150	S	36.9.27	B4		FRESH	
2,350-B330641,0	1983	SHERWOOD PARK, TORONTO	ONT	CAN	43.43	79.23	150	S	36.9.27	B4		FRESH	
<i>{ 2,350) ACER PSEUDOPLATANUS (Sycamore maple)</i>													
2,350-8330072,0	1983	QUEEN'S PARK, TORONTO	ONT	CAN	43.40	79.23	107	S	546.00	B4	64.0	65cm+11m	
2,350-8330073,0	1983	QUEEN'S PARK, TORONTO	ONT	CAN	43.40	79.23	107	S	546.00	B4	28.0	50cm+10m	
<i>{ 2,600) ACER RUBrum (red maple)</i>													
2,600-7030010,0	1970	PETAWAWA	ONT	CAN	45.53	77.16	350	S	16.71	75	20.0		
2,600-7033120,0	1970	GREENWOOD	ONT	CAN	45.46	77.02	140	S			84		
2,600-7130010,0	1971	PET. FOR. STATION	ONT	CAN	45.60	77.25	150	R			10-22m, 30-50y		
2,600-7130100,0	1971	PETAWAWA	ONT	CAN	45.58	77.16	150	S			**		
2,600-7130120,0	1971	PETAWAWA	ONT	CAN	45.53	77.16	150	S			**		
2,600-7230500,0	1972	CENTRAL RESEARCH FOREST	ONT	CAN	45.24	75.33	20	S			**		
2,600-7430090,0	1974	PETAWAWA	ONT	CAN	45.25	77.16	110	S	31.00		33.0		
2,600-7530060,0	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	R			84		

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REF ID	BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	1000			ELEV. GULF (ft.)	SEED TYPE	YEAR TST	GERM %	REMARKS
					CTRY	LAT.	L.DNG.					
7-600-7530070-0	510461	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	S	75	62.0	15cm, 12m
2-600-7530080-0	510462	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	S	75.0	73.0	15cm, 11m
2-600-7530090-0	510463	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	S	**	**	15-20cm, 12m
2-600-7530100-0	510464	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	S	**	**	16cm, 14m
2-600-7530110-0	510465	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	S	**	**	JRCm, 13m
2-600-7530120-0	510466	1975	PET. FOR. EXP. STATION	ONT	CAN	46.05	77.25	120	R	34.77	84	5-20cm, 14m
2-600-7530130-0	510467	1975	CHALK RIVER	ONT	CAN	46.05	77.23	150	R	34.77	84	20cm, 8m
2-600-7530150-0	510469	1975	PETAWAWA	ONT	CAN	45.54	77.14	110	S	**	**	3-15cm, 3-14m
2-600-7530160-0	510470	1975	FORT FRANCIS	ONT	CAN	48.40	93.15	350	R(?)	**	**	3-15cm, 10-12m
2-600-7530180-0	510471	1975	KENDRA	ONT	CAN	49.38	93.50	380	B(10)	75	83.0	5-10cm, 75-100m
2-600-7530190-0	510472	1975	FORT FRANCIS	ONT	CAN	48.55	93.00	365	R(11)	75	80.0	11-15cm, 10-12m
2-600-7620390-0	1976	LAUREAT	QUE	CAN	45.57	76.22	230	R(2)	**	**	10cm, 12m	
2-600-7620400-0	1976	LAUREAT	QUE	CAN	46.02	76.18	240	S	**	**	10cm, 12m	
2-600-7630010-0	1976	PET. FOR. EXP. STATION	ONT	CAN	48.59	77.23	150	S	76	70.0		
2-600-7630020-0	1976	PET. FOR. EXP. STATION	ONT	CAN	45.59	77.23	150	S	76	72.0		
2-600-7630030-0	1976	PET. FOR. EXP. STATION	ONT	CAN	45.59	77.24	150	R	76	74.0		
2-600-7630040-0	1976	PET. FOR. EXP. STATION	ONT	CAN	45.57	77.24	160	R(2)	77	69.0		
2-600-7630060-0	1976	PET. FOR. EXP. STATION	ONT	CAN	45.59	77.25	170	S	**	**		
2-600-7630070-0	1976	PET. FOR. EXP. STATION	ONT	CAN	45.57	77.24	160	S	**	**		
2-600-7630100-0	1976	LONG BEACH	ONT	CAN	42.52	79.23	180	S	76	93.0	20cm, 15cm	
2-600-7630110-0	1976	LONG BEACH	ONT	CAN	42.52	79.23	180	R	76	93.0	15cm, 11m	
2-600-7630120-0	1976	LONG BEACH	ONT	CAN	42.52	79.23	180	R	76	93.0	20cm, 14m	
2-600-7630130-0	1976	LONG BEACH	ONT	CAN	42.52	79.23	180	R	76	93.0	30cm, 21m	
2-600-7630140-0	1976	LONG BEACH	ONT	CAN	42.52	79.23	180	S	**	**	16cm, 14m	
2-600-7630150-0	1976	LONG BEACH	ONT	CAN	42.52	79.23	180	S	**	**	20cm, 6m	
2-600-7630170-0	1976	PET. FOR. EXP. STATION	ONT	CAN	45.57	77.24	160	S	**	**		
2-600-7630180-0	1976	CHALK RIVER	ONT	CAN	46.03	77.23	150	S	**	**		
2-600-7630190-0	1976	CHALK RIVER	ONT	CAN	46.03	77.23	150	R	75	82.0		
2-600-7716320-0	510296	ACANTHA FOR. EXP. STA.	BB	CAN	46.00	66.22	75	R	77	75.0	15cm, 9m, 75%	
2-600-7716330-0	510295	ACANTHA FOR. EXP. STA.	BB	CAN	46.00	66.22	75	S	77	73.0	15cm, 11m, 75%	
2-600-7716340-0	510297	ACANTHA FOR. EXP. STA.	BB	CAN	46.00	66.22	75	S	77	73.0	15cm, 11m, 75%	
2-600-7722040-0	1977	LAUREAT	QUE	CAN	45.56	76.22	240	S	77	69.0		
2-600-7722041-0	1977	LAUREAT	QUE	CAN	45.56	76.22	240	R	77	73.0		
2-600-7723020-0	1977	LAUREAT	ONT	CAN	45.56	76.22	240	S	77	73.0		
2-600-7730030-0	1977	LAUREAT	ONT	CAN	42.44	81.00	230	S	77	24.0	20cm, 17m	
2-600-7730040-0	1977	LAUREAT	ONT	CAN	42.44	81.00	230	R	77	44.0	41cm, 15m	
2-600-7730050-0	1977	LAUREAT	ONT	CAN	42.44	81.00	230	S	77	71.0	30cm, 20m	
2-600-7730070-0	1977	LAUREAT	ONT	CAN	42.44	81.00	230	S	77	57.0	13cm, 9m	
2-600-7730080-0	1977	LAUREAT	ONT	CAN	42.44	81.00	230	S	77	67.0		
2-600-7730090-0	1977	OSAGA BEACH	ONT	CAN	44.32	80.0	80	S	77	76.0		
2-600-7730100-0	1977	OSAGA BEACH	ONT	CAN	44.32	80.0	80	S	77	76.0		
2-600-7730110-0	1977	ELKHORN	ONT	CAN	44.35	79.47	160	S	77	67.0		
2-600-7730120-0	1977	HUNTSVILLE	ONT	CAN	45.18	79.16	300	S	77	78.0		
2-600-7730140-0	1977	HUNTSVILLE	ONT	CAN	45.18	79.16	275	S	77	47.0		
2-600-7730150-0	1977	HUNTSVILLE	ONT	CAN	45.18	79.19	275	S	77	82.0		
2-600-7730160-0	1977	HUNTSVILLE	ONT	CAN	45.15	79.19	275	S	77	82.0		
2-600-7730020-0	1979	WATNE FET	ONT	CAN	42.48	79.23	175	S	79	78.0		

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	FILE#	CNTL	SEEN	YEAR TESTD	GERM %	REMARKS
2,600-7930030.0	1979 TERRA COTTA	1979	SEVERN BRIDGE	ONT	CAN	43.44	79.55	275	B(5)	79	84.5		
2,600-7930040.0	1979 SEVERN BRIDGE	1979	NAT. FOR. INSTIT.	ONT	CAN	44.45	79.18	230	B(5)	79	80.0		
2,600-7930050.0	1979 FFT.	1979	NAT. FOR. INSTIT.	ONT	CAN	45.59	77.26	170	B(5)	79	61.0		
2,600-7930060.0	1979 MARTIN RIVER	1979	NAT. FOR. INSTIT.	ONT	CAN	46.41	79.45	300	B(5)	79	34.0	ST. 37.4B 56.7B	
2,600-7930070.0	1979 FFT.	1979	NAT. FOR. INSTIT.	ONT	CAN	45.58	77.26	180	S	16.67	80	48.0	ST. 37.3B 7cm 7m
2,600-7930080.0	1979 FET.	1979	NAT. FOR. INSTIT.	ONT	CAN	45.59	77.26	380	S	14.24	80	83.0	ST. 37.3B 7cm 7m
2,600-7930090.0	1979 FFT.	1979	NAT. FOR. INSTIT.	ONT	CAN	45.58	77.26	180	B	3.79	80	84.3	7cm 9m
2,600-7930100.0	1979 FET.	1979	NAT. FOR. INSTIT.	ONT	CAN	45.59	77.25	170	S	6.4	68.0	8m	
2,600-7930110.0	1979 FFT.	1979	NAT. FOR. INSTIT.	ONT	CAN	45.59	77.25	170	S	8.4	73.3	1.2m	
2,600-7930070.0	1982 FFT.	1982	NAT. FOR. INSTIT.	ONT	CAN	45.59	77.24	150	B	8.7	75.5	RODENT DAMAGE	
2,600-B230080.0	1982 FFT.	1982	NAT. FOR. INSTIT.	ONT	CAN	46.00	77.25	160	B	8.2	73.5	RODENT DAMAGE	
2,600-B230090.0	1982 FFT.	1982	NAT. FOR. INSTIT.	ONT	CAN	46.00	77.26	150	B	8.5	67.0	RODENT DAMAGE	
2,600-B230100.0	1982 FFT.	1982	NAT. FOR. INSTIT.	ONT	CAN	46.00	77.25	150	B	8.2	73.5	RODENT DAMAGE	
2,600-B230110.0	1982 FFT.	1982	NAT. FOR. INSTIT.	ONT	CAN	46.00	77.24	150	B	8.2	73.5	RODENT DAMAGE	
(2,800) ACER SACCHARUM (common sugar maple)													
2,800-6730510.0	1967 KIOSK	1967	LAKE DORE	ONT	CAN	46.10	78.30	335	B	84			
2,800-6730520.0	1967 LAKE DORE	1967	ALGOMA PARK	ONT	CAN	45.36	77.06	150	B	84			
2,800-6730540.0	1974 CHALK RIVER	1974	CHALK RIVER	ONT	CAN	45.25	78.16	460	S	84			
2,800-6730640.0	1976 OMEGA SOUND	1976	OCEAN SOUND	ONT	CAN	46.05	77.23	150	S	8.6			
2,800-B23210.0	1982 PFI HORN TWP., FORT HORN	1982	PFI HORN TWP., FORT HORN	ONT	CAN	45.34	80.56	190	R(3)	84.78	84		
2,800-B2330022.0	1983 WELLAND	1983	WELLAND	ONT	CAN	43.02	79.17	190	R(3)	84.78	84		
2,800-B3330045.0	1983 NIAGARA DISTRICT	1983	NIAGARA DISTRICT	ONT	CAN	43.03	79.22	190	R(3)	87.20	84		
2,800-B3330077.0				ONT	CAN	43.00	79.30	190	R(3)	87.20	84		
(3,000) Aesculus Hippocastanum (common horse-chestnut)													
3,100-B330011.0	1983 QUEBEC	1983	QUEBEC	ONT	CAN	43.09	79.24	90	B(2)	7410.00	84	56.0	40-100cm+13-15m
(4,100) ALNUS GRISPA (green alder)													
4,100-7931400.0	1979 MINTT TWP.	1979	BLAUE LAKE FOREST	ONT	CAN	47.39	83.15	460	B(R)	79	88.2		
4,100-7961850.0	1979 MINTT TWP.	1979	STEVENSON LAKE	ONT	CAN	54.58	14.23	590	B(R)	84			
4,100-8130220.0	1983 TANTALON	1983	TANTALON	HS	CAN	45.41	77.36	180	B	1.6	84	9.0	
4,100-8310556.0	(NAC)	1983 TANTALON	1983 TANTALON	HS	CAN	44.42	63.52	99	B(30)	1.9	84	19.0	0.5-2cm+2-3m
4,100-8310558.0	(NAC)	1983 TANTALON	1983 TANTALON	HS	CAN	44.42	63.52	99	S	2.0	84	21.0	2cm+3m 5m
4,100-8310559.0	(NAC)	1983 TANTALON	1983 TANTALON	HS	CAN	44.42	63.52	99	S	1.9	84	19.5	1cm+3m 7m
4,100-8310560.0	(NAC)	1983 TANTALON	1983 TANTALON	HS	CAN	44.42	63.52	99	S	2.0	84	23.0	2cm+3m 5m
4,100-8310563.0	(NAC)	1983 YARMOUTH	1983 YARMOUTH	HS	CAN	43.55	66.55	30	S	2.0	84	20.0	3cm+3m 6m
4,100-8310564.0	(NAC)	1983 YARMOUTH	1983 YARMOUTH	HS	CAN	43.55	66.55	30	S	2.5	84	44.5	2cm+3m 4m
4,100-8310565.0	(NAC)	1983 YARMOUTH	1983 YARMOUTH	HS	CAN	43.55	66.55	30	S	3.4	84	51.5	3cm+2m 4m
4,100-8310566.0	(NAC)	1983 YARMOUTH	1983 YARMOUTH	HS	CAN	43.55	66.55	30	S	2.9	84	12.5	2cm+2m 5m
4,100-8310567.0	(NAC)	1983 YARMOUTH	1983 YARMOUTH	HS	CAN	43.55	66.55	30	S	2.2	84	13.0	2cm+3m 6m
4,100-8320054.0	(NAC)	1983 HTSSSISSEPPI RIVER	1983 HTSSSISSEPPI RIVER	QUE	CAN	48.49	64.52	76	B(35)	2.7	84	42.5	1-2cm+2-4m
4,100-8320555.0	(NAC)	1983 M155515PI RIVER	1983 M155515PI RIVER	QUE	CAN	48.49	64.53	130	B(25)	2.5	84	32.5	0.5-2cm+2-3m
4,100-8360544.0	(NAC)	1983 FUSION	1983 FUSION	ALTA	CAN	53.35	15.6-30	80	B(50)	2.5	84	32.5	3-7cm+3-3m
4,100-8360545.0	(NAC)	1983 FORT MCKMURRAY	1983 FORT MCKMURRAY	ALTA	CAN	56.30	112.10	80	B*	2.4	84	29.5	100cm+2-3m
4,100-8360546.0	(NAC)	1983 SUMMIT	1983 SUMMIT	ALTA	CAN	53.30	117.10	80	R	3.4	84	50.0	2-3cm+1-2m

SEED LIST

SEED BANK NUMBER	MURSERY NUMBER	YEAR COL.	PROVENANCE	PROV	CTRY	LAT	LONG	F/FU	COLL	SEED	YEAR	%
								(#)	TYPE	WEIGHT	TSTD	GERM
4. 100-B360547.0 (HAC)												
4. 300-AEANUS (LUTTNERUS) (black alder)												
4. 300-77B9300.0 S10961	1977 HAMBURG											
4. 300-7BB4440.0	1978 GDR KJY OBLAST											
4. 300-79B3170.0	1979 ORAOJE FOR DYST ESTONIA											
4. 300-79B3190.0	1979 HALIKA FOR DYST ESTONIA											
4. 300-B1B0890.0	1981 TURKEY											
4. 300-B1B210.0	1981 CHERNIGOVSKY OBL AST											
4. 300-B1B1220.0	1981 ZHITOMIRSKY OBL AST											
4. 400-AEANUS INCANG (Ferns) (Evergreen) #1d+3												
4. 400-76B3860.0 S10300	1976 TARTH REB. FIN. ESTONIA	SUN	58.22	26.46	R							
4. 400-79B31390.0 S10981	1977 ALF. NIRE	DNT	45.37	72.07	R							
4. 400-79B3146.0	1979 TAKTO, ESTONIA	SUN	58.24	26.43E	S							
4. 400-79B3150.0	1979 SUKJU FOR DYST ESTONIA	SUN	58.19	24.40E	S							
4. 400-B130170.0	1981 LANE NORF.	DNT	45.37	77.07	B(3)							
4. 500-AEANUS JAP (TA)												
4. 500-B1B0880.0	1991 HELDRECHTS	CHN	45.21	129.37E	R							
4. 600-AEANUS RUBRA (red) (Orestry) #1d+3												
4. 600-B071140.0	1980 BOUSER, VANDWIJK, TSJ. ANH BC	CAN	49.20	324.40	S							
4. 600-B071150.0	1980 BOTONIEN, HOY, YANG, TS BC	CAN	48.20	324.25	S							
4. 600-B071170.0	1980 SHAMNIKAN-REAH-REW BC	CAN	49.25	324.15	S							
4. 600-B071180.0	1980 SHAMNIKAN, VANCOUVER IS BC	CAN	48.36	123.40	S							
4. 600-B370230.0 (NGC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370231.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370232.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370233.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370234.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370235.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370239.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370241.0 (MAC)	1983 SPRINSTON ROAD BC	CAN	49.03	123.56	S							
4. 600-B370245.0 (MAC)	1983 HORNE LAKF BC	CAN	49.23	124.43	S							
4. 600-B370250.0 (MAC)	1983 HORNE, LAKF BC	CAN	49.23	124.43	S							
4. 600-B370251.0 (MAC)	1983 HORNE LAKF BC	CAN	49.23	124.43	S							
4. 600-B370252.0 (MAC)	1983 HORNE LAKF BC	CAN	49.23	124.43	S							
4. 600-B370254.0 (MAC)	1983 HORNE LAKF BC	CAN	49.23	124.43	S							
4. 600-B370256.0 (MAC)	1983 SALMON RIVER BC	CAN	50.52	125.45	S							
4. 600-B370257.0 (MAC)	1983 SALMON RIVER BC	CAN	50.12	125.45	S							
4. 600-B370258.0 (MAC)	1983 SALMON RIVER BC	CAN	50.12	125.45	S							
4. 600-B370259.0 (MAC)	1983 SALMON RIVER BC	CAN	50.12	125.45	S							
4. 600-B370260.0 (MAC)	1983 SALMON RIVER BC	CAN	50.12	125.45	S							
4. 600-B370261.0 (MAC)	1983 SALMON RIVER BC	CAN	50.12	125.45	S							

SEEN 1ST

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	FLFU (cm)	SEED (cm)	YEAR	Z.	REMARKS
4-600-8370262.0 (NAC)	1983 SAI MON RIVER	BC	CAN	50° 12'	125° 45'	304	S	.54	R4	65.5		
4-600-8370263.0 (NAC)	1983 SAI MON RIVER	BC	CAN	50° 12'	125° 45'	304	S	.54	R4	37.0	26cm, 17m, 32m	
4-600-8370264.0 (NAC)	1983 SAI MON RIVER	BC	CAN	50° 12'	125° 45'	304	S	.76	R4	55.0	26cm, 17m, 32m	
4-600-8370265.0 (NAC)	1983 SAI MON RIVER	BC	CAN	50° 12'	125° 45'	304	S	.52	R4	64.5	29cm, 15m, 27m	

{ 4,000) AT NUS RIVER (specied older)

4-700-7735800.0	1977 MIPPING TWP.	DNT	CAN	46° 04'	79° 29'	200	R(4)	.83	R4	76.0	
4-700-7981860.0	1979 PENSACOL RIVER	ME	USA	45° 00'	69° 00'	40	R(20)	.59	R4	40.0	3-5m, 5-6m
4-700-8130150.0	1981 PET. NAT. FOR. INSTIT.	ONT	CAN	45° 59'	77° 26'	180	R(5)	.82	R4	13.0	
4-700-8130190.0	1981 STEVENSON LAKE	ONT	CAN	45° 41'	77° 36'	180	R	.84	R4		
4-700-8310202.0	1983 FENMORE	PEI	CAN	46° 35'	64° 03'	10	R(45)	.63	R4	22.5	2-5cm, 3-4m
4-700-8310203.0	1983 KIL VALIE	PEI	CAN	46° 24'	63° 24'	70	R(30)	.85	R4	29.0	2-6cm, 3-5m
4-700-8310204.0	1983 WILLEYFIELD	PEI	CAN	46° 08'	62° 43'	45	R(25)	.78	R4	34.0	4-6cm, 3-5m
4-700-8310548.0	1983 SHENIOR	HR	CAN	66° 14'	64° 35'	15	R(20)	.67	R4	23.0	2-6cm, 3-5m
4-700-8310549.0	1983 SHEDDIEC	HR	CAN	46° 14'	64° 25'	15	R	.75	R4	14.5	3-6m, 4th, 6y
4-700-8310551.0	1983 SHEDDIEC	HR	CAN	46° 14'	64° 25'	15	R	.00	R4	38.5	3cm, 4th, 8y
4-700-8310552.0	1983 SHEDDIEC	HR	CAN	46° 14'	64° 25'	15	R	.70	R4	38.0	4cm, 5m, 7y
4-700-8310553.0	1983 SHEDDIEC	HR	CAN	46° 14'	64° 35'	15	R	.65	R4	30.0	3cm, 4th, 8y
4-700-8330100.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R(10)	.87	R4	37.0	4-50cm, 3-5m
4-700-8330101.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.75	R4	39.5	6cm, 4th
4-700-8330102.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.79	R4	69.5	6cm, 4th
4-700-8330103.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.78	R4	86.5	6cm, 4th
4-700-8330104.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.84	R4	81.0	5cm, 2.5m
4-700-8330105.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.84	R4	62.5	4cm, 4th
4-700-8330106.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.61	R4	30.5	4cm, 3.5m
4-700-8330107.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.04	R4	68.5	5cm, 4th
4-700-8330108.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.85	R4	57.0	3cm, 4th
4-700-8330109.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.63	R4	27.0	4cm, 3.5m
4-700-8330110.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 15'	150	R	.80	R4	63.5	3cm, 4th
4-700-8330111.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 30'	25	R(20)	.61	R4	44.0	4-50cm, 3-5m
4-700-8330112.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 30'	25	R	.77	R4	34.5	6cm, 4th
4-700-8330113.0	1983 HWY 17 NEAR PEMBROKE	ONT	CAN	45° 50'	77° 30'	25	R	.01	R4	80.5	5cm, 3.5m
4-700-8330114.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.85	R4	57.0	3cm, 4th
4-700-8330115.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.63	R4	17.5	7cm, 4th
4-700-8330116.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.83	R4	50.5	6cm, 4th
4-700-8330117.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.67	R4	25.5	6cm, 4th
4-700-8330118.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.79	R4	40.5	5cm, 3.5m
4-700-8330119.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.70	R4	50.5	7cm, 4th
4-700-8330200.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.64	R4	37.5	6cm, 4th
4-700-8330201.0	1983 HWY 17 NEAR OTTAWA	ONT	CAN	45° 20'	76° 30'	75	S	.71	R4	47.5	6cm, 4th
								.77	R4	58.0	6cm, 4th

{ 4,000) AT NUS STIKINE (sitka alder)

4-800-7971840.0	1979 MCKENRICK PASS	BC	CAN	54° 50'	126° 45'	110	R(20)	.83	R4	84.0	3-Rcm, 1.5m
4-800-8071210.0	1980 CRANBROOK	BC	CAN	49° 35'	117° 05'	640	R	.26	BA	31.0	
4-800-8330208.0	1983 NEASE LAKE	BC	CAN	58° 45'	130° 03'	869	R*	.47	R4	93.5	\$225, 5-7cm, 2-5m
4-800-83370209.0	1983 DFACE LAKE	BC	CAN	58° 32'	130° 00'	817	R*	.75	R4	74.5	\$225, 5-15m, 2-7m
4-800-83370210.0	1983 STIKINE RIVER	BC	CAN	58° 00'	130° 02'	915	R(40)	.47	R4	78.0	5-Rcm, 2.5m

SEE LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV.	CTRY.	LAT.	LONG.	FLD	COLL. (m)	TYPE	1000 SEEDS		YEAR TEST.	GERM.	REMARKS
											WEIGHT	TEST.			
4-R00-8370213.0 (NAC)	1983 CHINA NOSE HI. SUBMIT	RC	CAN	54,27	126.08	1430	R*	*31	R*	18.5	*304	*2-6cm	2-3m		
4-R00-8370214.0 (NAC)	1983 VANTERHOOF	RC	CAN	55,56	123.49	1287	R*	*34	R*	50.0	*504	*2-5cm	1-3m		
4-R00-8370217.0 (NAC)	1983 COLD CREEK	RC	CAN	50,49	120.07	1310	R(40)	*39	R*	59.0				1-10cm, 2-7m	
4-R00-8370219.0 (NAC)	1983 ADVMS PLATEAU	RC	CAN	55,06	119.33	1286	R*	*35	R*	43.0	*404	*2-10cm	1-4m		
4-R00-8370220.0 (NAC)	1983 ROGERS PASS	RC	CAN	51,19	117.34	1219	R*	*31	R*	37.5	*504	*2-8cm	1-4m		
4-R00-8370222.0 (NAC)	1983 GALINA BAY	RC	CAN	50,35	117.52	607	R*	*27	R*	29.0	*204	*2-5cm	>3m		
4-R00-8370229.0 (NAC)	1983 HOPE SLIDE	RC	CAN	49,16	121.15	762	R*	*41	R*	60.5	*304	*2-5cm	1-4m		
4-R00-8370242.0 (NAC)	1983 BREM HT.	RC	CAN	49,03	124.21	1100	R*	*49	R*	51.0	*404	*1-7cm	2-5m		
4-R00-8370243.0 (NAC)	1983 HT. ARROWSMITH	RC	CAN	49,14	124.36	1150	R*	*52	R*	72.5	*254	*2-6cm	2-5m		
4-R00-H370244.0 (NAC)	1983 SPRUIT LANE	BC	CAN	49,18	125.04	640	R*	*53	R*	64.5	*454	*1-7cm	1-4m		
4-R00-B370255.0 (NAC)	1983 MCKAY LANE	RC	CAN	49,45	125.17	914	B(20)	*39	R*	31.5				1-6cm, 1-4m	
4-R00-B370266.0 (NAC)	1983 ROBERTS LANE	RC	CAN	50,13	125.30	366	R*	*36	R*	20.5	*254	*1-5cm	1-4m		
4-R00-B370277.0 (NAC)	1983 DEAGE LANE	RC	CAN	58,45	130.03	130	R*	*43	R*	79.0	SILT	L OAM			
4-R00-B370278.0 (NAC)	1983 DEAGE LANE	RC	CAN	58,45	130.03	869	R*	*45	R*	78.0	SILT	L OAM			
4-R00-B370279.0 (NAC)	1983 DEAGE LANE	RC	CAN	58,45	130.03	869	R*	*39	R*	79.0	SILT	L OAM			
4-R00-B370280.0 (NAC)	1983 DEAGE LANE	RC	CAN	58,45	130.03	869	R*	*55	R*	74.5	SILT	L OAM			
4-R00-B370281.0 (NAC)	1983 DEAGE LANE	BC	CAN	58,45	130.03	869	R*	*35	R*	52.0	SILT	L OAM			
4-R00-B370282.0 (NAC)	1983 DEAGE LANE	BC	CAN	58,45	130.03	869	R*	*42	R*	81.0	SILT	L OAM			
4-R00-B370283.0 (NAC)	1983 DEAGE LANE	BC	CAN	58,45	130.03	869	R*	*37	R*	56.5	SILT	L OAM			
4-R00-B370284.0 (NAC)	1983 DEAGE LANE	BC	CAN	58,45	130.03	869	R*	*38	R*	51.0	SILT	L OAM			
4-R00-B370285.0 (NAC)	1983 DEAGE LANE	BC	CAN	58,45	130.03	869	R*	*38	R*	81.0	SILT	L OAM			
4-R00-B370286.0 (NAC)	1983 DEAGE LANE	BC	CAN	58,45	130.03	869	R*	*44	R*	59.0	SILT	L OAM			
4-R00-B370297.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.07	915	R*	*29	R*	43.5	ON STEP HILL				
4-R00-B370298.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*31	R*	47.5	ON STEP HILL				
4-R00-B370299.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*34	R*	42.0	ON STEP HILL				
4-R00-B370300.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*33	R*	64	ON STEP HILL				
4-R00-B370301.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*38	R*	74.0	ON STEP HILL				
4-R00-B370302.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*43	R*	63.0	ON STEP HILL				
4-R00-B370303.0 (NAC)	1983 STICKTIE RIVER	BC	CAN	58,00	130.02	915	R*	*38	R*	63.5	ON STEP HILL				
4-R00-B370304.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*30	R*	71.5	ON STEP HILL				
4-R00-B370305.0 (NAC)	1983 STICKTIE RIVER	RC	CAN	58,00	130.02	915	R*	*23	R*	30.5	ON STEP HILL				
4-R00-B370306.0 (NAC)	1983 STICKTIE RIVER	BC	CAN	58,00	130.02	915	R*	*47	R*	79.0	ON STEP HILL				
4-R00-B370312.0 (NAC)	1983 CHINA NOSE SUBMIT	BC	CAN	54,27	126.08	1430	R*	*31	R*	14.5	GRAVEL	F AIR SITE			
4-R00-B370313.0 (NAC)	1983 CHINA NOSE SUBMIT	BC	CAN	54,27	126.08	1430	R*	*30	R*	25.0	GRAVEL	F AIR SITE			
4-R00-B370319.0 (NAC)	1983 CHINA NOSE SUBMIT	BC	CAN	54,27	126.08	1430	R*	*38	R*	12.5	GRAVEL	F AIR SITE			
4-R00-B370320.0 (NAC)	1983 CHINA NOSE SUBMIT	BC	CAN	54,27	126.08	1430	R*	*36	R*	76.0	GRAVEL	F AIR SITE			
4-R00-B370321.0 (NAC)	1983 CHINA NOSE SUBMIT	BC	CAN	54,27	126.08	1430	R*	*36	R*	11.5	GRAVEL	F AIR SITE			
4-R00-B370322.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*34	R*	68.0	SANDY GRAVEL				
4-R00-B370323.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*32	R*	10.5	SANDY GRAVEL				
4-R00-B370325.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*33	R*	17.5	SANDY GRAVEL				
4-R00-B370326.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*36	R*	69.5	SANDY GRAVEL				
4-R00-B370327.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*41	R*	93.5	SANDY GRAVEL				
4-R00-B370328.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*42	R*	71.0	SANDY GRAVEL				
4-R00-B370329.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*45	R*	84.0	SANDY GRAVEL				
4-R00-B370330.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*45	R*	84.0	SANDY GRAVEL				
4-R00-B370331.0 (NAC)	1983 VANTERHOOF	BC	CAN	53,56	123.49	1287	R*	*45	R*	39.5	SANDY GRAVEL				

SFLD	RANK	NUMBER	NURSER	YEAR	PROVENANCE	PROV	CTRY	LOT	LONG	LAT	TYPE	SEED	YEAR	Z	REMARKS
1000	FL/FU	CNT	FL/FU	1000	FL/FU	CNT									
4,00-B-370335,0	(NAD)	1983	VANDEPHOOF	BC	CAN	53,56	123,49	1287	S	*42	84	77,5	SANDY GRAVEL		
4,00-B-370336,0	(NAD)	1983	VANDEPHOOF	BC	CAN	53,56	123,49	1287	S	*34	84	86,0	SANDY GRAVEL		
4,00-B-370337,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*25	84	25,0	GRAVEL LOAM		
4,00-B-370358,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*43	84	58,0	GRAVEL LOAM		
4,00-B-370359,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*55	84	55,0	GRAVEL LOAM		
4,00-B-370360,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*46	84	80,0	GRAVEL LOAM		
4,00-B-370361,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*40	84	42,5	GRAVEL LOAM		
4,00-B-370362,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*28	84	35,5	GRAVEL LOAM		
4,00-B-370363,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*38	84	23,5	GRAVEL LOAM		
4,00-B-370364,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*40	84	72,5	GRAVEL LOAM		
4,00-B-370365,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*47	84	43,5	GRAVEL LOAM		
4,00-B-370366,0	(NAD)	1983	COLD CREEK	BC	CAN	50,49	120,07	1310	S	*37	84	70,0	GRAVEL LOAM		
4,00-B-370367,0	(NAD)	1983	ADAMS PI AT+AI	BC	CAN	51,06	119,33	1280	S	*24	84	11,0	GRAVEL LOAM		
4,00-B-370368,0	(NAD)	1983	ADAMS PI AT+AI	BC	CAN	51,06	119,33	1280	S	*34	84	52,0	GRAVEL LOAM		
4,00-B-370369,0	(NAD)	1983	ADAMS PI AT+AI	BC	CAN	51,06	119,33	1280	S	*36	84	34,0	GRAVEL LOAM		
4,00-B-370370,0	(NAD)	1983	ADAMS PI AT+AI	BC	CAN	51,06	119,33	1280	S	*59,5	84	59,5	GRAVEL LOAM		
4,00-B-370371,0	(NAD)	1983	ADAMS PI AT+AI	BC	CAN	51,06	119,33	1280	S	*49	84	24,5	GRAVEL LOAM		
4,00-B-370372,0	(NAD)	1983	ADAMS PI AT+AI	BC	CAN	51,06	119,33	1280	S	*43	84	69,0	GRAVEL LOAM		
4,00-B-370383,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,06	119,33	1280	S	*38	84	22,5	GRAVEL LOAM		
4,00-B-370385,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,06	119,33	1280	S	*32	84	24,5	GRAVEL LOAM		
4,00-B-370387,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,06	119,33	1280	S	*38	84	14,0	GRAVEL LOAM		
4,00-B-370388,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,06	119,33	1280	S	*35	84	32,5	ROCKY CLAY LOAM		
4,00-B-370389,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*47	84	59,5	ROCKY CLAY LOAM		
4,00-B-370390,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*38	84	49,0	ROCKY CLAY LOAM		
4,00-B-370391,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*45	84	25,5	ROCKY CLAY LOAM		
4,00-B-370392,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*31	84	33,0	ROCKY CLAY LOAM		
4,00-B-370393,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*32	84	38,0	ROCKY CLAY LOAM		
4,00-B-370394,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*35	84	34,5	ROCKY CLAY LOAM		
4,00-B-370395,0	(NAD)	1983	ROGERS PASS	BC	CAN	51,19	117,34	1219	S	*40	84	63,5	ROCKY CLAY LOAM		
4,00-B-370396,0	(NAD)	1983	ROGERS PASS	BC	CAN	50,35	117,52	607	S	*39	84	78,5	GRAVEL POOR SITE		
4,00-B-370397,0	(NAD)	1983	ROGERS PASS	BC	CAN	50,35	117,52	607	S	*37	84	32,5	GRAVEL POOR SITE		
4,00-B-370409,0	(NAD)	1983	GAL FMA RAY	BC	CAN	50,35	117,52	607	S	*36	84	18,5	GRAVEL POOR SITE		
4,00-B-370412,0	(NAD)	1983	GAL FMA RAY	BC	CAN	50,35	117,52	607	S	*28	84	12,0	GRAVEL POOR SITE		
4,00-B-370413,0	(NAD)	1983	GAL FMA RAY	BC	CAN	50,35	117,52	607	S	*37	84	54,5	GRAVEL POOR SITE		
4,00-B-370414,0	(NAD)	1983	GAL FMA RAY	BC	CAN	50,35	117,52	607	S	*42	84	79,0	GRAVEL POOR SITE		
4,00-B-370415,0	(NAD)	1983	GAL FMA RAY	BC	CAN	49,16	121,15	762	S	*36	84	13,0	GRAVEL POOR SITE		
4,00-B-370416,0	(NAD)	1983	GAL FMA RAY	BC	CAN	49,16	121,15	762	S	*50	84	53,5	GRAVEL POOR SITE		
4,00-B-370417,0	(NAD)	1983	FHOENIX	BC	CAN	49,05	118,35	1219	S	*36	84	59,5	SANDY SILT		
4,00-B-370449,0	(NAD)	1983	PHOENIX	BC	CAN	49,05	118,35	1219	S	*31	84	12,0	CLAY LOAM		
4,00-B-370452,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*42	84	54,5	SANDY SILT		
4,00-B-370453,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*37	84	30,5	SANDY SILT		
4,00-B-370454,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*48	84	59,5	SANDY SILT		
4,00-B-370455,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*50	84	74,5	SANDY SILT		
4,00-B-370471,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*36	84	33,5	SANDY SILT		
4,00-B-370472,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*42	84	66,0	SANDY SILT		
4,00-B-370473,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*48	84	59,5	SANDY SILT		
4,00-B-370474,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*50	84	74,5	SANDY SILT		
4,00-B-370475,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*47	84	70,5	SANDY SILT		
4,00-B-370476,0	(NAD)	1983	HOPE SLIDE	BC	CAN	49,16	121,15	762	S	*39	84	81,0	SANDY SILT		
4,00-B-370477,0	(NAD)	1983	GREEN MOUNTAIN	BC	CAN	49,03	124,7	1300	S	*43	84	29,5	SANDY LOAM		

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL.	PROVENANCE	PROV.	CTRY.	LAT.	LONG.	FLU. COL.		TYPE	WEIGHT	YEAR	TEST	PER%	REMARKS
									1000	500						
4-R00-837047B,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*62	R4	74.5	SANDY	LOAM		
4-R00-8370479,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*57	R4	58.0	SANDY	LOAM		
4-R00-8370480,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*50	R4	49.0	SANDY	LOAM		
A-R00-8370481,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*68	R4	69.0	SANDY	LOAM		
4-R00-8370482,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*55	R4	48.5	SANDY	LOAM		
4-R00-8370483,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*72	R4	76.0	SANDY	LOAM		
4-R00-8370484,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*44	R4	47.0	SANDY	LOAM		
4-R00-8370485,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*50	R4	57.5	SANDY	LOAM		
4-R00-8370486,0	(NAC)	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	S	*63	R4	82.5	SANDY	LOAM		
4-R00-8370487,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*74	R4	85.0	ROCKY	LOAM		
4-R00-8370488,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*61	R4	74.5	ROCKY	LOAM		
4-R00-8370489,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*70	R4	87.0	ROCKY	LOAM		
4-R00-8370490,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*40	R4	75.0	ROCKY	LOAM		
4-R00-8370491,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*64	R4	89.5	ROCKY	LOAM		
4-R00-8370492,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*54	R4	82.0	ROCKY	LOAM		
4-R00-8370493,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*42	R4	85.0	ROCKY	LOAM		
4-R00-8370494,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*36	R4	78.0	ROCKY	LOAM		
4-R00-8370495,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*40	R4	75.0	ROCKY	LOAM		
4-R00-8370496,0	(NAC)	1983	HT.	ARROWSMITH	BC	49.14	124.36	1150	S	*49	R4	74.0	ROCKY	LOAM		
4-R00-8370497,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*64	R4	61.5	ROCKY	LOAM		
4-R00-8370498,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*74	R4	76.5	ROCKY	LOAM		
4-R00-8370499,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*73	R4	73.0	ROCKY	LOAM		
4-R00-8370500,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*47	R4	56.5	ROCKY	LOAM		
4-R00-8370501,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*43	R4	68.5	ROCKY	LOAM		
4-R00-8370502,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*77	R4	79.5	ROCKY	LOAM		
4-R00-8370503,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*43	R4	80.5	ROCKY	LOAM		
4-R00-8370504,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*49	R4	71.5	ROCKY	LOAM		
4-R00-8370505,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*44	R4	67.5	ROCKY	LOAM		
4-R00-8370506,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*56	R4	80.5	ROCKY	LOAM		
4-R00-8370507,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*53	R4	87.5	ROCKY	LOAM		
4-R00-8370508,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*30	R4	11.0	ROCKY	LOAM		
4-R00-8370509,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*42	R4	57.5	ROCKY	LOAM		
4-R00-8370510,0	(NAC)	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	S	*56	R4	50.5	ROCKY	LOAM		
4-R00-8370511,0	(NAC)	1983	MICKAY LAKE	BC	CAN	49.45	125.17	914	S	*35	R4	26.0	ROCKY	LOAM		
4-R00-8370512,0	(NAC)	1983	MICKAY LAKE	BC	CAN	49.45	125.17	914	S	*34	R4	37.0	ROCKY	LOAM		
4-R00-8370513,0	(NAC)	1983	MICKAY LAKE	BC	CAN	49.45	125.17	914	S	*56	R4	48.0	ROCKY	LOAM		
4-R00-8370514,0	(NAC)	1983	MICKAY LAKE	BC	CAN	49.45	125.17	914	S	*54	R4	41.0	ROCKY	LOAM		
4-R00-8370515,0	(NAC)	1983	MICKAY LAKE	BC	CAN	49.45	125.17	914	S	*54	R4	43.5	ROCKY	LOAM		
4-R00-8370516,0	(NAC)	1983	MICKAY LAKE	BC	CAN	49.45	125.17	914	S	*43	R4	43.5	ROCKY	LOAM		
4-R00-8370517,0	(NAC)	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	*41	R4	30.5	ROCKY	LOAM		
4-R00-8370521,0	(NAC)	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	*32	R4	38.0	ROCKY	LOAM		
4-R00-8370522,0	(NAC)	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	*40	R4	41.0	ROCKY	LOAM		
4-R00-8370523,0	(NAC)	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	*29	R4	17.5	ROCKY	LOAM		
4-R00-8370524,0	(NAC)	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	S	*35	R4	21.0	ROCKY	LOAM		
4-R00-8370525,0	(NAC)	1983	GOALFIND	BC	CAN	51.30	125.30	366	S	*41	R4	70.0	(100) 3-5cm 2-4m			
4-R00-8370535,0	(NAC)	1983	VAL FOUNT	BC	CAN	52.50	125.30	366	S	*29	R4	73.0	(100) 4-7cm 1-3m			

(4,900) ALNUS TENUIFOLIA (mountain alder)

4,900-8071200,0

1980 CRANBROOK

+4.7 R4 22.0

SEED LIST

SEED BANK NUMBER	NURSERY COLL.	PROVENANCE	YEAR	TYPE	FIFU (ft.)		TYPE	WEIGHT (lb.)	SEED TEST	YEAR	REMARKS
					LIGHT	DARK					
4,900-8360537,0 (HAC)	1983 HINTON	ALTA CAN	53,25	117,45	R(20)	*54	R4	28,5	100%	8-10m	
4,900-8360538,0 (HAC)	1983 FT. ASSINIBOINE	ALTA CAN	54,30	114,50	R	*67	R4	37,0	10-20cm	*~7m	
4,900-8360540,0 (HAC)	1983 FT. ASSINIBOINE	ALTA CAN	54,30	114,50	R(20)	*50	R4	32,5	10-12cm	*5-6m	
4,900-8360542,0 (HAC)	1983 WINDFIRE RIVER	ALTA CAN	75,20	112,30	R(50)	*50	R4	33,0	5-8cm	*7-8m	
4,900-8360543,0 (HAC)	1983 ERSON	ALTA CAN	53,35	116,30	R	*50	R4	28,0	10-12cm	*5-6m	
4,900-8370211,0 (HAC)	1983 TSUKI	RC	64,54	130,00	R(32)	*87	R4	82,5	6-12cm	*6-8m	
4,900-8370212,0 (HAC)	1983 HOUSTON	RC	64,29	126,13	R(25)	*78	R4	35,0	2-20cm	*3-6m	
4,900-8370215,0 (HAC)	1983 BOBTAIL	HC	53,57	123,28	R*	*67	R4	52,0	*127,2	*2-20cm	*7-10m
4,900-8370216,0 (HAC)	1983 CACHE CREEK	RC	50,59	121,28	R(20)	*54	R4	43,5	5-10cm	*3-10m	
4,900-8370218,0 (HAC)	1983 LOUIS CREEK	RC	40,51	120,00	R(45)	*57	R4	10,0	5-15cm	*5-10m	
4,900-8370221,0 (HAC)	1983 THREE VALLEY G&P	RC	50,59	118,34	R*	*48	R4	36,0	*140+	*2-10cm	*3-7m
4,900-8370224,0 (HAC)	1983 HOUSTON	BC	54,29	126,13	R(32)	*58	R4	11,0	SANDY	ROCK	BROWN
4,900-8370269,0 (HAC)	1983 DEASE LAKE	BC	54,29	126,13	R(32)	*59	R4	11,5	SANDY	ROCK	BROWN
4,900-8370270,0 (HAC)	1983 HOUSTON	BC	54,29	126,13	R(32)	*53	R4	13,0	SANDY	ROCK	BROWN
4,900-8370271,0 (HAC)	1983 HOUSTON	BC	54,29	126,13	R(32)	*54	R4	13,0	SANDY	ROCK	BROWN
4,900-8370275,0 (HAC)	1983 HOUSTON	BC	54,29	126,13	R(32)	*53	R4	17,0	SANDY	ROCK	BROWN
4,900-8370287,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*74	R4	94,0	SILT LOAM		
4,900-8370288,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*67	R4	81,0	SILT LOAM		
4,900-8370289,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*80	R4	78,0	SILT LOAM		
4,900-8370290,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*61	R4	63,5	SILT LOAM		
4,900-8370291,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*77	R4	70,0	SILT LOAM		
4,900-8370292,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*70	R4	91,5	SILT LOAM		
4,900-8370293,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*44	R4	30,0	SILT LOAM		
4,900-8370294,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*64	R4	92,0	SILT LOAM		
4,900-8370295,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*67	R4	78,5	SILT LOAM		
4,900-8370296,0 (HAC)	1983 DEASE LAKE	BC	58,32	130,00	R(17)	*61	R4	74,5	SILT LOAM		
4,900-8370307,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*66	R4	78,0	LOAMY SOTL		
4,900-8370308,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*71	R4	60,5	LOAMY SOTL		
4,900-8370309,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*63	R4	62,0	LOAMY SOTL		
4,900-8370310,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*53	R4	36,0	LOAMY SOTL		
4,900-8370311,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*82	R4	61,5	LOAMY SOTL		
4,900-8370312,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*73	R4	63,5	LOAMY SOTL		
4,900-8370313,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*69	R4	71,0	LOAMY SOTL		
4,900-8370314,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*79	R4	64,5	LOAMY SOTL		
4,900-8370315,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*81	R4	57,0	LOAMY SOTL		
4,900-8370316,0 (HAC)	1983 ISKU	RC	57,53	130,00	R(33)	*94	R4	40,5	LOAMY SOTL		
4,900-8370337,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*62	R4	45,5	PEAT	FAIR GROWTH	
4,900-8370338,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*91	R4	59,5	PEAT	FAIR GROWTH	
4,900-8370339,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*66	R4	64,5	PEAT	FAIR GROWTH	
4,900-8370340,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*76	R4	70,0	PEAT	FAIR GROWTH	
4,900-8370341,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*74	R4	62,0	PEAT	FAIR GROWTH	
4,900-8370342,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*63	R4	79,0	PEAT	FAIR GROWTH	
4,900-8370343,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*74	R4	57,0	PEAT	FAIR GROWTH	
4,900-8370344,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*68	R4	51,5	PEAT	FAIR GROWTH	
4,900-8370345,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*76	R4	39,0	PEAT	FAIR GROWTH	
4,900-8370346,0 (HAC)	1983 BOBTAIL	RC	53,57	123,28	R(52)	*68	R4	31,5	PEAT	FAIR GROWTH	
4,900-8370347,0 (HAC)	1983 CACHE CREEK	RC	50,59	121,28	R(54)	*59	R4	50,5	GOOD SITE QUALITY		
4,900-8370348,0 (HAC)	1983 LOUIS CREEK	RC	40,51	120,00	R(26)	*30	R4	12,0	LOAM	FAIR SITE	
4,900-8370349,0 (HAC)	1983 LOUIS CREEK	RC	40,51	120,00	R(26)	*39	R4	12,5	LOAM	FAIR SITE	
4,900-8370350,0 (HAC)	1983 LOUIS CREEK	RC	40,51	120,00	R(26)	*54	R4	15,0	LOAM	FAIR SITE	

SEED BANK NUMBER	NURSERY COLI	YEAR	PROVENANCE	PROV	CTRY	LAT	LONG	FLD	COLL.	SEED	YEAR	REMARKS
					(m)	TYPE	(m)	(m)	TYPE	WEIGHT	2	GEFO
4,900-8370397,0 (HAC)	1983 THREE VALLEY GAP	1983	VALLEY GAP	BC	CAN	50,59	118,33	518	S	.49	R4	2B,0
4,900-8370398,0 (HAC)	1983 THREE VALLEY GAP	1983	VALLEY GAP	BC	CAN	50,59	118,33	518	S	.44	R4	25,0
4,900-8370400,0 (HAC)	1983 THREE VALLEY GAP	1983	VALLEY GAP	BC	CAN	50,59	118,33	518	S	.47	R4	35,5
4,900-8370401,0 (HAC)	1983 THREE VALLEY GAP	1983	VALLEY GAP	BC	CAN	50,59	118,33	518	S	.35	R4	25,5
4,900-8370404,0 (HAC)	1983 THREE VALLEY GAP	1983	VALLEY GAP	BC	CAN	50,59	118,33	518	S	.42	R4	10,5
4,900-8370417,0 (HAC)	1983 NAKUSP	1983	NAKUSP	BC	CAN	50,18	117,50	468	S	.41	R4	10,5
4,900-8370418,0 (HAC)	1983 NAKUSP	1983	NAKUSP	BC	CAN	50,18	117,50	468	S	.42	R4	12,0
4,900-8370419,0 (HAC)	1983 NAKUSP	1983	NAKUSP	BC	CAN	50,18	117,50	468	S	.60	R4	44,5
4,900-8370425,0 (HAC)	1983 NAKUSP	1983	NAKUSP	BC	CAN	52,50	119,15	R(50)	S	.63	R4	12,5
4,900-8370539,0 (HAC)	1983 VALFHORN	1983	VALFHORN	BC	CAN	52,50	119,15	R(50)	S	.58	R4	40,5
										3-10cm+2-8m		
0,100-5030060,0	1950 ANGUS	1950	ANGUS	ONT	CAN	44,19	79,54	N/A		**	R4	10,0
0,100-5030060,0	1958 P.F.F. S. BREAKSTAD RD	1958	P.F.F. S. BREAKSTAD RD	ONT	CAN	45,59	77,26	N/A		94	R4	57,0
0,100-5030060,0	1966 PET. FOR. EXP. STATION	1966	PET. FOR. EXP. STATION	ONT	CAN	45,56	77,33	200	S	.93	R4	43,0
0,100-6-6720440,0	1967 HARRINGTON	1967	HARRINGTON	QUE	CAN	45,51	74,38	R(10)		74	R4	6,0cm+23m+250m
0,100-6730280,0	1967 KIOSK	1967	KIOSK	ONT	CAN	46,10	78,30	325	S	.62	R4	31,8
0,100-6730290,0	1967 KIOSK	1967	KIOSK	ONT	CAN	46,10	78,30	325	S	.43m+23m+250m	R4	24,0
0,100-6730300,0	1967 KIOSK	1967	KIOSK	ONT	CAN	46,10	78,30	325	S	.92	R4	56cm+23m
0,100-6730310,0	1967 KIOSK	1967	KIOSK	ONT	CAN	46,10	78,30	325	S	R0	R4	6,4cm+1,9m
0,100-6730320,0	1967 KIOSK	1967	KIOSK	ONT	CAN	46,10	78,30	325	S	1,14	R4	5,3cm+20m
0,100-6730330,0	1967 KIOSK	1967	KIOSK	ONT	CAN	46,10	78,30	325	S	1,06	R4	60,4
0,100-6730340,0	1967 PANCAKE RIVER	1967	PANCAKE RIVER	ONT	CAN	47,02	84,38	325	S	74	R4	20,0
0,100-6730350,0	1967 PANCAKE RIVER	1967	PANCAKE RIVER	ONT	CAN	47,02	84,38	325	S	84	R4	78,0
0,100-6730360,0	1967 PANCAKE RIVER	1967	PANCAKE RIVER	ONT	CAN	47,02	84,38	325	S	74	R4	78,0
0,100-6730370,0	1967 PANCAKE RIVER	1967	PANCAKE RIVER	ONT	CAN	47,02	84,38	325	S	74	R4	77,0
0,100-6730380,0	1967 PANCAKE RIVER	1967	PANCAKE RIVER	ONT	CAN	47,02	84,38	325	S	74	R4	62,0
0,100-6730450,0	1967 PET. FOR. EXP. STATION	1967	PET. FOR. EXP. STATION	ONT	CAN	45,53	77,28	210	S	.75	R4	41,5
0,100-6731920,0	1967 SULF STE. HORNIE	1967	SULF STE. HORNIE	ONT	CAN	46,31	84,20	N/A	R4	47,0	R4	47,0
0,100-6B20230,0	1968 GASSFF PENINSULA	1968	GASSFF PENINSULA	QUE	CAN	49,13	65,27	90	R4	53,0	1,3cm+9m	
0,100-7030820,0	1970 PEHRIDGE	1970	PEHRIDGE	ONT	CAN	46,00	77,25	S	R4	R4	R4	R4
0,100-7030920,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	46,00	77,25	S	R4	R4	R4	R4
0,100-7030840,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	46,00	77,25	S	R4	R4	R4	R4
0,100-7030910,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	46,00	77,25	S	R4	R4	R4	R4
0,100-7030920,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	46,00	77,25	S	R4	R4	R4	R4
0,100-7030930,0	1970 PEHRIDGE	1970	PEHRIDGE	ONT	CAN	45,49	77,07	S	R4	R4	R4	R4
0,100-7030940,0	1970 PEHRIDGE	1970	PEHRIDGE	ONT	CAN	45,49	77,07	S	R4	R4	R4	R4
0,100-7030950,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	45,45	79,00	S	R4	R4	R4	R4
0,100-7030960,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	45,45	79,00	S	R4	R4	R4	R4
0,100-7030970,0	1970 PET. FOR. EXP. STATION	1970	PET. FOR. EXP. STATION	ONT	CAN	45,45	79,00	S	R4	R4	R4	R4
0,100-7130940,0	1971 PET. FOR. EXP. STATION	1971	PET. FOR. EXP. STATION	ONT	CAN	45,36	78,12	N/A	R4	R4	R4	R4
0,100-7434390,0	1974 PET. FOR. EXP. STATION	1974	PET. FOR. EXP. STATION	ONT	CAN	45,36	78,12	N/A	R4	R4	R4	R4
0,100-7434400,0	1974 PET. FOR. EXP. STATION	1974	PET. FOR. EXP. STATION	ONT	CAN	45,36	78,12	N/A	R4	R4	R4	R4

SEFD LIST

SEFD BANK NUMBER	YEAR	COLL.	PROVENANCE	PROU	CTRY	LAT	LONG	FLFU (COL)		SEEI	YEAR	REMARKS
								(ft.)	TYPE	W+ LTHI	TESTI	GENR
B-100-7434510.0	1974	PEY, FOR, EXP.	STATION	ONT	CAN			5	S	R4	R3.0	**
B-100-7434520.0	1974	PEY, FOR,	STATION	ONT	CAN			5	S	1.3%	R4	7R.0
B-100-7434530.0	1974	PEY, FOR,	STATION	ONT	CAN			5	S	1.3%	R4	34.0
B-100-7434540.0	1974	PEY, FOR,	STATION	ONT	CAN			5	S	1.0%	R4	69.0
B-100-7434550.0	1974	WHITNEY		ONT	CAN	45.25	70.16	5	S	R4	68.0	51cm, 17m
B-100-7434560.0	1974	WHITNEY		ONT	CAN	45.25	70.16	5	S	R4	68.0	64cm, 18m
B-100-7434740.0	1974	WHITNEY		ONT	CAN	45.25	70.16	5	S	R4	74.0	56cm, 17m
B-100-7434910.0	1974	WHITNEY		ONT	CAN	45.25	70.16	5	S	R4	88.0	
B-100-7434920.0	1974	WHITNEY		ONT	CAN	45.25	70.16	5	S	R4	17.0	
(B-300) BETULA OCCIDENTALIS (water blank) (bare) 1												
8,300-7474240.0	1974	HETLEY	White (over) birch	BC	CAN	49.35	120.00	460	S	.32	79	73.5; Rem*5m
(B-500) BETULA PAPYRIFERA (white) birch												
8,500-6430350.0	1964	P.F.E.S.	ORANGE ROAD	ONT	CAN	45.57	77.25		N/A			**
8,500-6630540.0	1966	P.F.E.S.	STATION	ONT	CAN	46.00	77.26	150	S	.28	70	
8,500-6731940.0	1967	P.F.F.S.	RACE HORSE RD.	ONT	CAN	45.55	77.27		N/A			**
8,500-6731950.0	1967	P.F.F.S.	RACE HORSE RD.	ONT	CAN	45.55	77.27		N/A			**
8,500-6731960.0	1967	P.F.F.S.	RACE HORSE RD.	ONT	CAN	45.55	77.27		N/A			**
8,500-6830170.0	1968	ONTARIO		ONT	CAN	45.57	77.33	210	N/A	.35	70	
8,500-7031060.0	1970	ALGONQUIN PARK		ONT	CAN	45.52	77.34	210	S	70	66.0	
8,500-7031700.0	1970	ALGONQUIN PARK		ONT	CAN	48.56	66.06	345	S			18cm, 12m, 50m
8,500-7520360.0	1975	MONT ALBERT, GASPE		QUE	CAN	48.56	66.06	345	S			20cm, 17m, 50m
8,500-7520370.0	1975	MONT ALBERT, GASPE		QUE	CAN	48.56	66.06	345	S			30cm, 12m, 50m
8,500-7520380.0	1975	MONT ALBERT, GASPE		QUE	CAN	48.56	66.06	345	S			70cm, 12m, 70m
8,500-7520400.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520410.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520420.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520430.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520450.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520460.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520470.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7520490.0	1975	PARC DE LA VERENDRYE		QUE	CAN	46.49	76.08	335	S			
8,500-7530250.0	1975	PET, FOR, EXP.	STATION	ONT	CAN	46.00	77.26	150	S	.31	79	72.7
8,500-7540270.0	1975	SANDY LANDS FOR, RESERVE	HAN	HAN	CAN	49.20	96.18	370	R(2)			30cm, 14m
8,500-7540280.0	1975	SANDY LANDS FOR, RESERVE	HAN	HAN	CAN	49.20	96.18	370	B(2)	.29	R4	46.0
8,500-7540290.0	1975	REFLET FOR, RESERVE	HAN	HAN	CAN	50.30	96.25	460	S			15-18cm, 6-18m
8,500-7540310.0	1975	AGASSIZ FOR, RESERVE	HAN	HAN	CAN	50.00	96.15	460	B(2)	.38	R4	72.0
8,500-7540320.0	1975	AGASSIZ FOR, RESERVE	HAN	HAN	CAN	50.00	96.15	460	R(2)		R4	40.0
8,500-7571370.0	1975	HOPE		EC	CAN	49.15	121.30	30	S			
8,500-7571380.0	1975	HOPE		EC	CAN	49.15	121.30	30	S			
8,500-7571390.0	1975	HOPE		EC	CAN	49.15	121.30	30	S			
8,500-7571400.0	1975	HOPE		EC	CAN	49.15	121.30	30	S			
8,500-7571410.0	1975	HOPE		EC	CAN	49.15	121.30	30	S			
8,500-7571420.0	1977	WARTON		ONT	CAN	44.47	81.00	180	B(5)			10-15cm, 5-15m
8,500-7731990.0	1977	RAMSEY LAKE		ONT	CAN	46.30	81.00	250	R	.35	R4	80.0

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	FL EG (m.)	COL I (m.)	SFFD WFTGH	YEAR %	REMARKS		
8,500-77718B0,0	1977	HOPF	BC	CAN	49°15'	121,30	30	B(2)				20-44°W, 18-24N			
8,500-7771890,0	1977	HOPE	BC	CAN	49°15'	121,30	30	B(2)				20-46°W, 18-24N			
8,500-7771900,0	1977	HOPE	BC	CAN	49°15'	121,30	30	S							
8,500-7771930,0	1977	HOPE	BC	CAN	49°15'	121,30	30	S							
8,500-7771940,0	1977	HOPF	BC	CAN	49°15'	121,30	30	S							
8,500-B360629,0	1983	FORT MURRAY	ALTA CAN	57,05'	131,35	305	N/A	N/A	31,5						
(B,600) BETULA PENTHALA Tsvilov (weevined) birch															
8,600-B101030,0	1981	KAREI SKAYA, USSR	SUN	65°,00'	35,00E		R					R	75,0		
8,600-B101040,0	1981	KAREI SKAYA, USSR	SUN	65°,00'	35,00E		R					R	66,0		
8,600-B101050,0	1981	KAREI SKAYA, USSR	SUN	65°,00'	35,00E		R					R	75,0		
8,600-B101060,0	1981	KOSTROVSKAYA (BIA) EST	SUN	57,30	41,00E		R					R	96,0		
(B,700) BETULA POPULIFOLIA (paper birch)															
8,700-7631040,0	1970	OTTAWA	ONT CAN	45,24	75,33	70	R					R	11,0		
(B,800) BETULA PINESCENS (downy birch)															
8,800-7683900,0	1976	TARTU REGN (Northern) ESTONIA	SUN	58,22	26,46E	70	R					R	79,0		
(B,900) BETULA UVRUCOSA (European white birch)															
8,900-0080005,0	1976	MAHTRA FOREST, ESTONIA	FRA									R	30,5	UTA (ERESPIV)	
8,900-7693890,0	1977	FRANCE	SUN	59,10	24,46E	R0	R					R	79,9		
(11,200) CARYA CORNUIFORMIS (bitternut hickory)															
11,200-0330014,0	1983	FONTHILL	ONT CAN	43,02	79,17	190	S						40°W, 110°E		
(11,250) CARYA GLabra (sweetnut hickory)															
11,250-0330012,0	1983	FONTHILL	ONT CAN	43,02	79,17	190	S						55°W, 110°E		
(11,300) CARYA LACINTOSA (big shellbark hickory)															
11,300-B320070,0	1983	WEST LINCOLN	ONT CAN	42,56	79,38		R						35°W, 110°E		
(11,600) CARYA DUMTA (shagbark hickory)															
11,600-0330013,0	1983	FONTHILL	ONT CAN	43,02	79,17	190	S						40°W, 110°E		
(12,300) CATALPA SPECIOSA (catalpa)															
12,300-03300639,0	1983	HALDINGEN	ONT CAN	43,00	79,50										
(15,100) CHAMAECYPARIS LAWSONIANA (Port Orford cedar)															
15,100-0080001,0		FRANCE	FRA											UTA (ERESPIV)	

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL	PROV/NAME	PROV	CTRY	LAT	LONG	FL/FU		TYPE	W/T/H/T	STH	GFM	REMARKS
									(#)	(#)					
(21-100) FRAXINUS AMERICANA (white ash)															
21-100-5630560-0	S1056	1956	WODERKE RB.	P,F,E,S,	INT	CAN	45° 59'	77° 26'	N/A						
21-100-7433330-0		1974	CHENNAUX		INT	CAN	45° 35'	76° 41'	90	S	54,30				15cm. E
21-100-7433350-0		1974	CHENNAUX		INT	CAN	45° 35'	76° 41'	90	S	83,10				6cm. E
21-100-7433370-0		1974	CHENNAUX		INT	CAN	45° 35'	76° 41'	90	S	54,50				9cm. E
21-100-7725390-0	S10608	1972	ROUGE RIVER		INT	CAN	45,51	74,36	180	S					
21-100-7725420-0	S10608	1977	ROUGE RIVER		INT	CAN	45° 50'	74,36	305	S					
21-100-7725440-0	S10691	1977	ROUGE RIVER		INT	CAN	45° 43'	74,42	180	S					
21-100-7732550-0	S10402	1977	ROSS TWP.		INT	CAN	45° 35'	76,41	110	S					
21-100-7732680-0	S10415	1977	RAMSAY TWP.		INT	CAN	45,10	76,17	170						
21-100-7732710-0	S10418	1977	CARP RTG&F		INT	CAN	45,22	76,02	120	S					
21-100-7732730-0	S10420	1977	CARP RTG&F		INT	CAN	45,22	76,02	120	S					
21-100-7732750-0	S10422	1977	CORNWALL TWP.		INT	CAN	45,09	74,51	90	S					
21-100-7732790-0	S10426	1977	KILLBEAR PROV. PARK		INT	CAN	45,21	80,12	180	S					
21-100-7732860-0	S10427	1977	KILLBEAR PROV. PARK		INT	CAN	45,21	80,12	180	S					
21-100-7732870-0	S10430	1977	KILLBEAR PROV. PARK		INT	CAN	45,21	80,12	180	S					
21-100-7732880-0	S10433	1977	HARVEY TWP.		INT	CAN	44,40	78,21	300	S					
21-100-7732880-0	S10435	1977	HARVEY TWP.		INT	CAN	44,40	78,21	300	S					
21-100-7732890-0	S10436	1977	RONDFAU PROV. PARK		INT	CAN	42,1R	81,51	170	R					
21-100-7732900-0	S10437	1977	RONDFAU PROV. PARK		INT	CAN	42,1R	81,51	170	S					
21-100-7732920-0	S10439	1977	RONDFAU PROV. PARK		INT	CAN	42,1R	81,51	170	R					
21-100-7733080-0	S10440	1977	BURFORD TWP.		INT	CAN	42,59	80,38	240	S					
21-100-7733100-0	S10455	1977	WINNIHAN TWP.		INT	CAN	42,58	80,28	240	S					
21-100-7733110-0	S10458	1977	WINNIHAN TWP.		INT	CAN	42,56	80,26	230	S					
21-100-7733120-0	S10459	1977	WINNIHAN TWP.		INT	CAN	42,53	80,22	230	S					
21-100-7733130-0	S10460	1977	WOODHOUSE TWP.		INT	CAN	42,49	80,16	200	S					
21-100-7733160-0	S10463	1977	NIAGARA-ON-THE-LAKE		INT	CAN	43,16	79,04	75	S					
21-100-7733170-0	S10464	1977	NIAGARA-ON-THE-LAKE		INT	CAN	43,16	79,04	75	S					
21-100-7733180-0	S10465	1977	NIAGARA-ON-THE-LAKE		INT	CAN	43,16	79,04	75	S					
21-100-7733190-0	S10466	1977	NIAGARA-ON-THE-LAKE		INT	CAN	43,16	79,04	75	S					
21-100-7733200-0	S10467	1977	NIAGARA-ON-THE-LAKE		INT	CAN	43,16	79,04	75	S					
21-100-7733210-0	S10468	1977	NIAGARA-ON-THE-LAKE		INT	CAN	43,16	79,04	75	S					
21-100-7733220-0	S10469	1977	FORT FRIE		INT	CAN	42,50	78,50	170	R					
21-100-7733230-0	S10470	1977	BEVERLY TWP.		INT	CAN	43,20	80,05	275	S					
21-100-7733260-0	S10473	1977	BLAINE TWP.		INT	CAN	43,1R	80,3%	300	S					
21-100-7733290-0	S10476	1977	TURNBERRY TWP.		INT	CAN	43,55	81,19	300	S					
21-100-7733300-0	S10477	1977	TURNBERRY TWP.		INT	CAN	43,55	81,19	300	S					
21-100-7733310-0	S10480	1977	TURNBERRY TWP.		INT	CAN	43,55	81,19	300	S					
21-100-7733350-0	S10482	1977	TURNBERRY TWP.		INT	CAN	43,55	81,19	300	S					
21-100-7733360-0	S10483	1977	BURGHANON		INT	CAN	43,52	81,35	244	S					
21-100-7733370-0	S10484	1977	BURGHANON		INT	CAN	43,52	81,35	244	S					
21-100-7733380-0	S10485	1977	BURGHANON		INT	CAN	43,52	81,35	244	S					
21-100-7733390-0	S10486	1977	BENMILLER		INT	CAN	43,36	81,37	244	S					
21-100-7733410-0	S10488	1977	BENMILLER		INT	CAN	43,34	81,36	244	S					
21-100-7733420-0	S10489	1977	TARA		INT	CAN	44,26	81,12	244	S					
21-100-7733430-0	S10490	1977	TARA		INT	CAN	44,26	81,12	244	S					
21-100-7733450-0	S10492	1977	TARA		INT	CAN	44,26	81,12	244	S					

SEEN LIST

SPED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG (m)	ELEV (m)	COLL. TYPE	WEIGHT	YEAR 2 GERM.	REMARKS
21,100-7733510-0	S1049R	1977	BONINOR	ONT	CAN	44.31	80.45	244	S			
21,100-7733520-0	S10499	1977	COLDWATER	ONT	CAN	44.42	79.38	213	S			
21,100-7733550-0	S20502	1977	BLUEWATER BEACH	ONT	CAN	44.37	79.58	213	S			
21,100-7733560-0	S10503	1977	BLUEWATER BEACH	ONT	CAN	44.37	79.58	213	S			
21,100-7733570-0	S10504	1977	BLUEWATER BEACH	ONT	CAN	44.37	79.58	213	S			
21,100-7733580-0	S10505	1977	BLUEWATER BEACH	ONT	CAN	44.37	79.58	213	S			
21,100-7733590-0	S10506	1977	BLUEWATER BEACH	ONT	CAN	44.37	79.58	213	S			
21,100-7733600-0	S10507	1977	TERRA NOVA	ONT	CAN	44.14	80.03	274	S			
21,100-7733630-0	S10510	1977	TERRA NOVA	ONT	CAN	44.14	80.03	274	S			
21,100-7733650-0	S10512	1977	TERRA NOVA	ONT	CAN	44.14	80.03	274	S			
21,100-7733670-0	S10514	1977	TERRA NOVA	ONT	CAN	44.14	80.03	274	S			
21,100-7733680-0	S10515	1977	STOFFFVILLE	ONT	CAN	44.03	79.16	335	S			
21,100-7733690-0	S10516	1977	STOFFFVILLE	ONT	CAN	43.59	79.15	305	S			
21,100-7733700-0	S10517	1977	STOFFFVILLE	ONT	CAN	43.58	78.53	213	S			
21,100-7733720-0	S10518	1977	STOFFFVILLE	ONT	CAN	44.01	79.09	305	S			
21,100-7733730-0	S10520	1977	STOFFFVILLE	ONT	CAN	44.01	79.09	305	S			
21,100-7733760-0	S10523	1977	SIBBOLT	ONT	CAN	44.17	79.22	213	S			
21,100-7733770-0	S10524	1977	SIBBOLT	ONT	CAN	44.17	79.14	213	S			
21,100-7733780-0	S10525	1977	SIBBOLT	ONT	CAN	44.17	79.14	213	S			
21,100-7733790-0	S10526	1977	ELIZABETHVILLE	ONT	CAN	44.03	78.26	213	S			
21,100-7733800-0	S10527	1977	ELIZABETHVILLE	ONT	CAN	44.03	78.26	213	S			
21,100-7733820-0	S10529	1977	ELIZABETHVILLE	ONT	CAN	44.03	78.26	213	S			
21,100-7733830-0	S10530	1977	ELIZABETHVILLE	ONT	CAN	44.00	78.26	152	S			
21,100-7733840-0	S10531	1977	ELIZABETHVILLE	ONT	CAN	43.59	78.21	213	S			
21,100-7733850-0	S10532	1977	RICE LAKE	ONT	CAN	44.14	78.08	213	S			
21,100-7733860-0	S10533	1977	RICE LAKE	ONT	CAN	44.14	78.08	213	S			
21,100-7733870-0	S10534	1977	RICE LAKE	ONT	CAN	44.15	78.06	213	S			
21,100-7733880-0	S10535	1977	RICE LAKE	ONT	CAN	44.15	78.06	213	S			
21,100-7733890-0	S10536	1977	RICE LAKE	ONT	CAN	44.16	78.05	213	S			
21,100-7733940-0	S10541	1977	CHALK RIVER	ONT	CAN	45.59	77.26	163	S			
21,100-7733950-0	S10542	1977	CHAIN RIVER	ONT	CAN	45.59	77.26	163	S			
21,100-7735950-0	S10693	1977	CUMBERLAND	ONT	CAN	45.33	75.23	30	S			
21,100-7735960-0	S10694	1977	CUMBERLAND	ONT	CAN	45.31	75.23	30	S			
21,100-7735970-0	S10695	1977	CUMBERLAND	ONT	CAN	45.31	75.23	30	S			
21,500-7734050-0	S10696	1977	CUMBERLAND	ONT	CAN	45.31	75.23	30	S			
21,500-7734060-0	S10553	1977	DEHND TWP.	ONT	CAN	44.58	76.20	150	S			
(21,500) FRAXINUS PENNSYLVANICA (red ash)												
21,500-7733950-0	S10543	1977	ROSS TWP.	ONT	CAN	45.41	76.43	90	S	34.97	84	21.0
21,500-7733970-0	S10544	1977	OSGOODE TWP.	ONT	CAN	45.13	75.34	90	S			
21,500-7733980-0	S10545	1977	OSGOODE TWP.	ONT	CAN	45.13	75.34	90	S	38.66	84	10.7
21,500-7733990-0	S10546	1977	OSGOODE TWP.	ONT	CAN	45.13	75.34	90	S			
21,500-7734000-0	S10547	1977	OSGOODE TWP.	ONT	CAN	45.13	75.34	90	S	47.26	84	56.0
21,500-7734010-0	S10548	1977	OSGOODE TWP.	ONT	CAN	45.13	75.34	90	S			
21,500-7734020-0	S10549	1977	DRUMHOLD TWP.	ONT	CAN	44.58	76.20	150	S			
21,500-7734030-0	S10550	1977	DRUMHOLD TWP.	ONT	CAN	44.58	76.20	150	S	41.18	84	38.7
21,500-7734040-0	S10551	1977	DRUMHOLD TWP.	ONT	CAN	44.58	76.20	150	S	49.38	84	62.0
21,500-7734050-0	S10552	1977	DRUMHOLD TWP.	ONT	CAN	44.58	76.20	150	S	37.56	84	57.0
21,500-7734060-0	S10553	1977	DRUMHOLD TWP.	ONT	CAN	44.58	76.20	150	S			

SEEN LIST

SEED BANK NUMBER	YEAR GOL.	PROVENANCE	PRTY	CTRY	LAT	LONG	FLU COLI		YEAR SEEN	% TESTD	GENE
							(m)	TYPE			
21*500-7734070*0	SI0554	1977 ROXBOROUGH Twp.	OINT	CAN	45°12'	74°51'	90	S	56,67	R4	61.3
21*500-7734080*0	SI0575	1977 ROXBOROUGH Twp.	OINT	CAN	45°12'	74°51'	90	S			
21*500-7734090*0	SI0576	1977 ROXBOROUGH Twp.	OINT	CAN	45°12'	74°51'	90	S			
21*500-7734100*0	SI0577	1977 ROXBOROUGH Twp.	OINT	CAN	45°12'	74°51'	90	S			
21*500-7734120*0	SI0579	1977 WILLIAMSBURG Twp.	OINT	CAN	44°50'	75°11'	80	S			
21*500-7734140*0	SI0561	1977 WILLIAMSBURG Twp.	OINT	CAN	44°50'	75°11'	80	S			
21*500-7734150*0	SI0562	1977 WILLIAMSBURG Twp.	OINT	CAN	44°50'	75°11'	80	S			
21*500-7734160*0	SI0563	1977 WILLIAMSBURG Twp.	OINT	CAN	44°50'	75°11'	80	S			
21*500-7734210*0	SI0568	1977 OXFORD Twp.	OINT	CAN	44°52'	75°40'	90	S			
21*500-7734220*0	SI0569	1977 SOPERTON	OINT	CAN	44°37'	76°03'	90	S			
21*500-7734230*0	SI0570	1977 SOPERTON	OINT	CAN	44°37'	76°03'	90	S			
21*500-7734240*0	SI0571	1977 SOPERTON	OINT	CAN	44°37'	76°03'	90	S			
21*500-7734250*0	SI0572	1977 SOPERTON	OINT	CAN	44°37'	76°03'	90	S			
21*500-7734270*0	SI0574	1977 ERNESTOWN Twp.	OINT	CAN	44°10'	76°48'	80	S			
21*500-7734280*0	SI0575	1977 ERNESTOWN Twp.	OINT	CAN	44°10'	76°48'	80	S			
21*500-7734290*0	SI0576	1977 ERNESTOWN Twp.	OINT	CAN	44°10'	76°48'	80	S			
21*500-7734310*0	SI0578	1977 ERNESTOWN Twp.	OINT	CAN	44°10'	76°48'	80	S			
21*500-7734350*0	SI0582	1977 AMELIA TASHBURN Twp.	OINT	CAN	44°05'	77°16'	80	S			
21*500-7734360*0	SI0583	1977 AMELIA TASHBURN Twp.	OINT	CAN	44°05'	77°16'	80	S			
21*500-7734390*0	SI0584	1977 ELIZA TASHBURN Twp.	OINT	CAN	44°34'	77°16'	150	S			
21*500-7734400*0	SI0587	1977 ELIZA TASHBURN Twp.	OINT	CAN	44°34'	77°16'	150	S			
21*500-7734410*0	SI0588	1977 ELIZA TASHBURN Twp.	OINT	CAN	44°34'	77°16'	150	S			
21*500-7734420*0	SI0589	1977 KILLBEAR PROV. PARK	OINT	CAN	45°21'	80°12'	180	S			
21*500-7734430*0	SI0590	1977 KILLBEAR PROV. PARK	OINT	CAN	45°21'	80°12'	180	S			
21*500-7734440*0	SI0591	1977 KILLBEAR PROV. PARK	OINT	CAN	45°21'	80°12'	180	R			
21*500-7734450*0	SI0592	1977 KILLBEAR PROV. PARK	OINT	CAN	45°23'	80°32'	180	S			
21*500-7734470*0	SI0594	1977 RONDÉAU PROV. PARK	OINT	CAN	42°07'	81°53'	180	S			
21*500-7734480*0	SI0595	1977 RONDÉAU PROV. PARK	OINT	CAN	42°07'	81°53'	180	S			
21*500-7734490*0	SI0596	1977 RONDÉAU PROV. PARK	OINT	CAN	42°07'	81°53'	180	S			
21*500-7734510*0	SI0598	1977 CATERO	OINT	CAN	42°44'	81°54'	210	S			
21*500-7734520*0	SI0599	1977 KINGSCOURT	OINT	CAN	42°56'	81°57'	210	R			
21*500-7734530*0	SI0600	1977 KINGSCOURT	OINT	CAN	42°56'	81°57'	210	S			
21*500-7734560*0	SI0603	1977 KINGSCOURT	OINT	CAN	42°56'	81°57'	210	S			
21*500-7734580*0	SI0605	1977 NORWICH	OINT	CAN	42°59'	80°33'	213	S			
21*500-7734600*0	SI0607	1977 NORWICH	OINT	CAN	42°59'	80°33'	213	S			
21*500-7734610*0	SI0608	1977 PORT BURWELL	OINT	CAN	42°53'	80°49'	210	S			
21*500-7734620*0	SI0609	1977 PORT BURWELL	OINT	CAN	42°43'	80°49'	210	S			
21*500-7734750*0	SI0622	1977 NIAGARA-ON-THE-LAKE	OINT	CAN	43°34'	79°10'	76	S			
21*500-7734760*0	SI0623	1977 NIAGARA-ON-THE-LAKE	OINT	CAN	43°14'	79°10'	76	S			
21*500-7734780*0	SI0625	1977 NIAGARA-ON-THE-LAKE	OINT	CAN	43°14'	79°10'	76	S			
21*500-7734790*0	SI0626	1977 NIAGARA-ON-THE-LAKE	OINT	CAN	43°14'	79°10'	76	S			
21*500-7734820*0	SI0629	1977 WHALEFT, NEWARK PARK	OINT	CAN	42°56'	79°23'	6	S			
21*500-7734830*0	SI0630	1977 WHALEFT, NEWARK PARK	OINT	CAN	42°56'	79°23'	6	S			
21*500-7734840*0	SI0631	1977 WHALEFT, NEWARK PARK	OINT	CAN	42°49'	79°23'	6	S			
21*500-7734880*0	SI0635	1977 WESTOVER	OINT	CAN	43°20'	80°05'	244	S			

1000
FLU COLI
(%)
TYPE
WFLIGHT
18m
REMARKS

SEED LIST

SEED BANK NUMBER	NURSERY COLL	YEAR	PROVENANCE	PROV	CTRY	LAT	LONG	ELFU COLL (m)	SEED WEIGHT (g/m)	YEAR Z	STL#	REMARKS
21,500-7734890.0	\$10636	1977	WESTOVER	ONT	CAN	43,20	80,05	244	5			
21,500-7734900.0	\$10637	1977	WASHINGTON	ONT	CAN	43,17	80,34	244	5			
21,500-7734910.0	\$10638	1977	WASHINGTON	ONT	CAN	43,17	80,34	244	5			
21,500-7734920.0	\$10639	1977	WASHINGTON	ONT	CAN	43,17	80,34	244	5			
21,500-7734930.0	\$10642	1977	WINGHAM	ONT	CAN	43,55	81,23	305	5			
21,500-7734940.0	\$10645	1977	WINGHAM	ONT	CAN	43,55	81,23	305	5			
21,500-7735000.0	\$10648	1977	BOGNER	ONT	CAN	44,31	80,47	244	5			
21,500-7735020.0	\$10649	1977	BOGNER	ONT	CAN	44,31	80,47	244	5			
21,500-7735030.0	\$10650	1977	BEAUFORD	ONT	CAN	44,35	80,31	183	5			
21,500-7735040.0	\$10651	1977	BEAUFORD	ONT	CAN	44,35	80,31	183	5			
21,500-7735050.0	\$10652	1977	BEAUFORD	ONT	CAN	44,35	80,31	183	5			
21,500-7735060.0	\$10653	1977	BEAUFORD	ONT	CAN	44,35	80,31	183	5			
21,500-7735070.0	\$10654	1977	BEAUFORD	ONT	CAN	44,35	80,31	183	5			
21,500-7735080.0	\$10655	1977	COLDWATER	ONT	CAN	44,43	79,37	183	5			
21,500-7735090.0	\$10656	1977	COLDWATER	ONT	CAN	44,43	79,37	183	5			
21,500-7735100.0	\$10657	1977	COLDWATER	ONT	CAN	44,43	79,37	183	5			
21,500-7735110.0	\$10658	1977	COLDWATER	ONT	CAN	44,43	79,37	183	5			
21,500-7735120.0	\$10659	1977	COLDWATER	ONT	CAN	44,43	79,37	183	5			
21,500-7735140.0	\$10661	1977	TINY MARSH	ONT	CAN	44,36	79,56	213	5			
21,500-7735170.0	\$10664	1977	TINY MARSH	ONT	CAN	44,36	79,56	213	5			
21,500-7735190.0	\$10666	1977	STOUTFUTILE	ONT	CAN	43,57	79,14	213	5			
21,500-7735200.0	\$10667	1977	STOUTFUTILE	ONT	CAN	43,57	79,14	213	5			
21,500-7735210.0	\$10668	1977	STOUTFUTILE	ONT	CAN	43,57	79,14	213	5			
21,500-7735220.0	\$10669	1977	GAMBRIIDGE	ONT	CAN	44,31	79,10	213	5			
21,500-7735230.0	\$10670	1977	GAMBRIIDGE	ONT	CAN	44,31	79,10	213	5			
21,500-7735270.0	\$10674	1977	CANTON	ONT	CAN	43,59	78,21	152	5			
21,500-7735280.0	\$10675	1977	CANTON	ONT	CAN	43,59	78,21	152	5			
21,500-7736000.0	\$10698	1977	CUMBERLAND	ONT	CAN	45,31	75,25	91	5			
21,500-7736010.0	\$10699	1977	CUMBERLAND	ONT	CAN	45,31	75,25	91	5			
21,500-7736030.0	\$10701	1977	CUMBERLAND	ONT	CAN	45,31	75,25	91	5			
21,500-7736040.0	\$10702	1977	CUMBERLAND	ONT	CAN	45,31	75,25	91	5			
21,500-B3300071.0		1983 CITY OF THOROLD		ONT	CAN	43,07	79,22	8	84	51,0	26cm + 1 fm	
(23,400) GLEBITSIA TRIACANTHOS (Chokeberry-leaved)												
23,400-7237420.0		1972 UPLAND AIRPORT, ONTARIO	ONT	CAN	45,20	75,39	100	5		RA	AR, O	
(27,400) KOELRUTERIA PANICULATA (Golden rain tree)												
27,400-B3300021.0		1983 UTHLAND - 666, CANADA	ONT	CAN	43,09	79,23	90	5	170,32	RA	3,3,0	25cm, 6m
(28,100) LARIX DECIDUA (European larch)												
28,100-6781670.0		1967 JÄGERSBORG	DKK	DKK	55,45	12,30E		R	5,69	76	3B, 0	
28,100-7286160.0		1972 SÄFJÖN	CSK	CSK	49,05	20,40E	650	R	4,41	78	52,0	
28,100-7485230.0	S 9462	1974 FARUS, RAVNSHOLT	DKK	DKK	55,49	12,23E		R	6,81	78	36,0	THROUW, 41, FS
28,100-7485240.0		1974 JÄGERSBORG	DKK	DKK	55,45	12,30E		R	6,92	76	38,0	IM-RØDVÆN, SJØFJÆN
28,100-7687350.0		1975 FOU SYSTRICA	CSK	CSK	49,07	18,26E	500	R	5,24	83	21,0	
		1976 HUUSTA	CSK	CSK	48,42	19,57E	800	R	4,44	83	26,0	

SEEN LIST

SEEN	BANK	HUNTER	YEAR	PROVENANCE	PROV.	CTRY	LAT.	LONG.	FLW COL.	SEED	YEAR	%
								(in)	TYPE	WEIGHT	STN	GERH
28,100-76B7600,0	S	99B8	1976	U.S.S.R.		CSK	48.29	19.38E	500	R	5.45	83
28,100-77B9170,0	S	99B9	1977	HEDZYLESTIE FOR THSP		POL	50.15	16.30E	500	R	6.20	83
28,100-78B6560,0			1978	RAJEC		CSK	49.25	16.39E	550	R	5.07	20.0
28,100-78B6670,0			1978	NIZNY, SLAVKOV		CSK	48.43	20.56E	550	R	4.69	53.0
28,100-78B6680,0			1978	U.PAN		CSK	50.02	14.55E	600	R	3.34	50.0
28,100-78B6760,0			1978	FOR DIST RYTSYCA		POL	50.16	16.37E	500	R(10)	4.50	61.0
28,100-79B3980,0			1979	CHOCH		CSK	50.00	16.18E	260	R	5.86	31.0
28,100-79B3990,0			1979	RUD		CSK	50.00	16.54E	550	B	5.74	41.0
(28,150) LARIX GENEV. var. POLONICA												32.0
28,150-77B9330,0			1977	FOR DIST SIGULDA		POL	51.05	20.00E	300	R		
(28,200) LARIX FLUORESC. (Danheld larch)												
28,200-72B5630,0	S	99B0	1972	HOL BOK		DHK	56.33	10.19E		CP	2.66	18.0
28,200-74B5270,0			1974	JAP. BUCKEYB		DEU	52.50	9.00E		B	5.11	50.0
28,200-74B5290,0			1974	FÆRFOLDEN		DHK	56.28	8.17E		CP	8.25	19.0
28,200-74B5320,0			1974	KLØSTERHEUFN		DHK	56.30	8.20E		B	7.72	6.0
28,200-76B280,0			1976	TÄRTO, ESTOIAN SSR		SUN	58.23	26.49E		B	7.60	31.0
(28,300) LARIX GENEV. (Dehurian larch)												
28,300-71B5500,0	S	99B3	1971	HF-LUNG-KIANG PROV.		CHN	47.00	129.00E		R		86.5
28,300-76B7900,0			1976	TARTU, ESTOIAN SSR		SUN	58.23	26.49E		R	5.88	42.6
28,300-80B1120,0			1980	KIRTH PROVINC		CHN	44.00	126.00E		B		58.0
28,300-80B1830,0			1980	YAKUTSKAYA, ASSR		SUN	62.00	13.00E		B	3.08	47.0
(28,320) LARIX GENEV. var. JAPONICA												
28,320-76B7870,0			1976	TÄRTO, ESTOIAN SSR		SUN	58.23	26.49E		B		1. KURENSTS
(28,350) LARIX GENEV. var. OLGENSIS												
28,350-80B1130,0			1980	KIRTH PROVINC		CHN	44.00	126.00E		R	5.00	57.0
28,350-81B0B60,0			1981	KIRTH PROVINC		CHN	44.00	126.00F		B	4.50	54.0
(28,370) LARIX GENEV. var. PRINCIPIS												
28,370-78B6970,0			1978	NU-TING-SAN-SHT PROV.		CHN	31.00	118.00F		B	5.09	26.0
28,370-79B3330,0			1979	SHENSI		CHN	36.00	116.00E		B	5.4	42.0
(28,400) LARIX LARICINA (Chammarack, eastern larch)												
28,400-6730210,0	S	8529	1967	PEI FOR. EXP. STATION		ONT	45.58	77.26	160	H/4	1.53	76
28,400-68011B0,0	S	8530	1968	NORTH POND		NFLD	48.50	54.44		B	1.91	25.0
28,400-7021B0,0	S	8531	1970	BERTHIER DIVISION		QUE	46.15	73.15		B	2.00	76.4
28,400-7021B90,0	S	8532	1970	I.A. MOLINE		QUE	47.40	70.70		R	2.11	76
28,400-7021B90,0	S	8533	1970	PREISSAC		QUE	48.30	78.15		R	2.18	81.5

REF ID: L1ST

SEFTON BANK NUMBER	NURSERY	YEAR	COLL.	PROVENANCE	PROV.	CTRY.	LAT.	LONG.	FL.FW. (ML.)		SEED	YEAR	2 YTH. GERM.	REMARKS
									(in)	TYPE				
28.500-6681900.0	S 8909	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	0.36	77	45.5	TOKACHI DIST.			
28.500-6681910.0	S 8910	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.75	77	45.5	TOKACHI DIST.			
28.500-6681920.0	S 8911	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.57	77	53.0	TOKACHI DIST.			
28.500-6681930.0	S 8912	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.48	77	60.5	TOKACHI DIST.			
28.500-6681940.0	S 8913	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.64	77	70.0	TOKACHI DIST.			
28.500-6681950.0	S 8914	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.69	77	74.0	TOKACHI DIST.			
28.500-6681960.0	S 8915	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.74	77	75.5	TOKACHI DIST.			
28.500-6681970.0	S 8916	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.42	77	67.0	TOKACHI DIST.			
28.500-6681980.0	S 8917	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.48	77	48.0	TOKACHI DIST.			
28.500-6681990.0	S 8918	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.62	77	59.5	TOKACHI DIST.			
28.500-6682000.0	S 8919	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.36	77	58.0	TOKACHI DIST.			
28.500-6682010.0	S 8920	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.00E	N/A	4.67	77	69.5	TOKACHI DIST.			
28.500-6682030.0	S 8921	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.38	77	51.5	TOKACHI DIST.			
28.500-6682040.0	S 8922	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.46	77	53.5	TOKACHI DIST.			
28.500-6682050.0	S 8923	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.38	77	67.0	TOKACHI DIST.			
28.500-6682060.0	S 8924	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.54	77	70.5	TOKACHI DIST.			
28.500-6682070.0	S 8925	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.61	77	66.0	TOKACHI DIST.			
28.500-6682080.0	S 8926	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.61	77	69.0	TOKACHI DIST.			
28.500-6682090.0	S 8927	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.81	77	63.5	TOKACHI DIST.			
28.500-6682100.0	S 8928	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.52	77	51.5	TOKAIGAWA DIST.			
28.500-6682110.0	S 8929	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.46	77	57.5	TOKAIGAWA DIST.			
28.500-6682120.0	S 8930	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.32	77	52.0	TOKAIGAWA DIST.			
28.500-6682130.0	S 8931	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.38	77	59.5	TOKAIGAWA DIST.			
28.500-6682140.0	S 8932	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.50	77	57.0	TOKAIGAWA DIST.			
28.500-6682150.0	S 8933	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.44	77	63.0	TOKAIGAWA DIST.			
28.500-6682160.0	S 8934	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.37	77	36.5	TOKAIGAWA DIST.			
28.500-6682170.0	S 8935	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.42	77	51.0	TOKAIGAWA DIST.			
28.500-6682180.0	S 8936	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.53	77	54.0	TOKAIGAWA DIST.			
28.500-6682190.0	S 8937	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.62	77	59.0	TOKAIGAWA DIST.			
28.500-6682200.0	S 8938	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.75	77	63.0	TOKAIGAWA DIST.			
28.500-6682210.0	S 8939	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.63	77	72.5	TOKAIGAWA DIST.			
28.500-6682230.0	S 8941	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.48	77	53.5	TOKAIGAWA DIST.			
28.500-6682240.0	S 8942	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.60	77	68.0	TOKAIGAWA DIST.			
28.500-6682250.0	S 8943	1966	HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A	4.66	77	44.0	TOKAIGAWA DIST.			
28.500-6980500.0	S 8951	1971	CEN. HOKKAIDO, HONSHU	JPN	35.00	136.00E	R	4.15	B	9.5				
28.500-6980510.0	S 8952	1969	HOKKAIDO PREFECTURE	DEU	54.47	9.27E	N/A	5.51	76	80.0	NO. 615			
28.500-7081670.0	S 8953	1970	HAGANO PREFECTURE	JPN	36.00	138.00E	B	5.42	76	97.8	NO. 601			
28.500-7182050.0	S 8954	1971	GIHHO PREFECTURE	JPN	36.30	139.00E	B	4.37	76	57.5	KUASHIROYAMA			
28.500-7182060.0	S 8955	1971	GIHHO PREFECTURE	JPN	36.30	139.00E	R	3.93	76	72.5	MIZUNOTO			
28.500-7182070.0	S 8956	1971	TOCHIGI PREFECTURE	JPN	36.40	140.00E	R	5.33	76	64.5	YOSHIMURA			
28.500-7485200.0	S 8957	1974	C.E. FLensburg	DEU	54.47	9.27E	N/A	5.51	76	80.0	NO. 615			
28.500-7487120.0	S 8958	1974	YAMAGAISHI PREFECTURE	JPN	35.20	138.43E	R	3.70	77	50.5				
28.500-7487140.0	S 8961	1974	NAGANO PREFECTURE	JPN	36.23	138.22E	R	3.03	77	32.5				
28.500-7687890.0	28.700-7473050.0	1976	TARTU, ESTONIAN SSR	SUN	58.23	26.49E	R	6.09	R	20.0				

(28,700) LARIX OCCIDENTALIS (western larch)

28.700-7473050.0

1974 JOHNSTONE CR. FROU, PARK BC CAN 49.03 119.03 BRC R

3.38 76 76.0

18-23m, 35-40y

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLI	PERFORMANCE	PROV	CTRY	LAT	LNG	FLEV	COLL.	SEEN	YEAR	Z	REMARKS
(2B,750) LARIX POTANINI (Tibetan larch)														
2B,750-7BB69B0,0	1978 SHILO-JIN, SZECHUAN PROV	1978	CHN	30,00	107,00E				N/A	2,72	83	29,0		
2B,750-7BB3340,0	1979 SZECHUAN	1979	CHN	30,00	107,00E				B	2,80	H3	29,0		
(2B,800) LARIX SIBIRICA (Siberian larch)														
2B,800-71556B0,0	1973 INDIAN HEAD	1973	INDIAN HEAD		SASK	CAN	50,31	103,41	590	H	31,18	H4	21,0	
2B,800-76B7B40,0	1976 TARTU, ESTONIAN SSR	1976	TARTU, ESTONIAN SSR		SUN	58,23	26,49E		B	34,30	H3	25,0	L,	SUKACZEWITI
2B,800-76B7B50,0	1976 PILKALAU, ESTONIAN SSR	1976	PILKALAU, ESTONIAN SSR		SUN	59,04	23,54F		B	10,40	H3	1,0,0	I,	SUKACZEWITI
2B,800-76B7B60,0	1976 KAMBI, ESTONIAN SSR	1976	KAMBI, ESTONIAN SSR		SUN	58,10	26,51E		B	11,40	H3	24,0	L,	SUKACZEWITI
2B,800-76B7B70,0	1976 AZEFILLOUSK	1976	AZEFILLOUSK		SUN	52,40	58,30E	900	B	13,10	H3	36,0	I,	SUKACZEWITI
2B,800-77B9A20,0	1977 TUANQOU OBLAST	1977	TUANQOU OBLAST		SUN	56,30	42,00E	900	B	10,50	H3	32,0		
2B,800-7BB6BB0,0	1978 BASHKIR, ASSR	1978	BASHKIR, ASSR		SUN	55,00	55,00F		B	13,5B	H3	44,0		
2B,800-7BB6B90,0	1978 KASHOVYARSKY KRAY	1978	KASHOVYARSKY KRAY		SUN	55,00	55,00E		B	10,50	H3	19,0		
2B,800-89B1B20,0	1981 TUANQOU RAYA OBLAST	1981	TUANQOU RAYA OBLAST		SUN	55,00	95,00F		B	8,26	H3	70,0		
2B,800-81B1230,0					SUN	57,00	42,30E		B	9,38	H3	49,0		
(30,400) METASEQUIA GLYPTOSTROBOIDES (dwarf redwood)														
30,400-7BB61450,0	1978 HUPEH	1978	HUPEH		CHN	30,30	109,00E	1000	N/A	1,66	**			
(32,100) PICEA ARIES (Norway spruce)														
32,100-6730B70,0	1967 PER, FOR, EXP, STATION	1967	PER, FOR, EXP, STATION		ONT	CAN	46,00	72,25		B	11,95	H3	78,5	
32,100-6730B80,0	1967 PER, FOR, EXP, STATION	1967	PER, FOR, EXP, STATION		ONT	CAN	46,00	72,25		B	10,20	H3	67,0	
32,100-6731B30,0	1968 IVAN JARU	1968	IVAN JARU		ONT	CAN	46,00	72,25			11,24	H3	54,6	
32,100-68B0270,0	1968 CENTRAL FINLAND	1968	CENTRAL FINLAND		SWE	60,48	16,45F	240	R	6,65	H3	65,5		
32,100-68B0280,0	1968 COSHO FOR DIST.	1968	COSHO FOR DIST.		FIN	62,00	24,00E		B	5,22	H3	34,5		
32,100-73B3260,0	1973 HOLDOVITA DIST.	1973	HOLDOVITA DIST.		ROM	27,00	45,00E		R	7,38	H3	76,5		
32,100-73B3270,0	1974 PRIENI, LITHUANIAN SSR	1974	PRIENI, LITHUANIAN SSR		RUM	54,12	27,00F		B	7,25	H3	72,7		
32,100-74B6B20,0	1974 VILNAUS, LITHUANIAN SSR	1974	VILNAUS, LITHUANIAN SSR		SUN	54,48	73,51F	107	S	7,01	H3	77,0		49cm+346+50w
32,100-74B6B30,0	1975 TARTU RES FOR ESTONIAN SSR	1975	TARTU RES FOR ESTONIAN SSR		SUN	54,48	25,18E	150	S	6,04	H3	61,3		38cm+31w+90w
32,100-75B150,0	1978 VILJANDI NC, 98 ESTONIA	1978	VILJANDI NC, 98 ESTONIA		SUN	58,22	26,48E	60	R	6,25	H3	91,0		
32,100-78B5990,0	1979 PEKNO OBLAST	1979	PEKNO OBLAST		SUN	58,15	25,17E	120	S	7,89	H3	79,0		32cm+33w+85w
32,100-78B6790,0	1979 PELKNU OBLAST	1979	PELKNU OBLAST		SUN	60,00	31,00E		R	6,16	H3	78,0		
32,100-78B6800,0	1978 ARKHANGEL'SK OBL AST	1978	ARKHANGEL'SK OBL AST		SUN	57,00	27,00E		U	6,62	H3	67,0		
32,100-78B6810,0	1978 VOLGDA OBL AST	1978	VOLGDA OBL AST		SUN	68,00	45,00E		R	4,79	H3	51,6		
32,100-78B6820,0	1978 KOSTROVA OBL AST	1978	KOSTROVA OBL AST		SUN	58,00	40,00E		R	5,69	H3	71,7		
32,100-78B6830,0	1978 KALININ OBL AST	1978	KALININ OBL AST		SUN	57,00	42,00E		R	4,94	H3	70,3		
32,100-78B6840,0	1978 KALUGA OBL AST	1978	KALUGA OBL AST		SUN	57,00	37,00E		R	7,12	H3	92,1		
32,100-78B6850,0	1979 YAROSLAVSKA OBLAST	1979	YAROSLAVSKA OBLAST		SUN	53,00	36,00E		R	6,46	H3	68,0		
32,100-79B410,0	1979 KOSTROVSKAYA OBLAST	1979	KOSTROVSKAYA OBLAST		SUN	57,00	39,00E		R	5,19	H3	76,5		
32,100-79B411,0	1981 KOLYUCHKAYA OBLAST	1981	KOLYUCHKAYA OBLAST		SUN	58,00	41,00E		B	5,03	H3	72,0		
32,100-81B101,0					SUN	54,00	35,00E		R	6,04	H3	61,5		
(32,150) PICEA ASPENIFERA (dragon spruce; Chinese spruce)														
32,150-7BB6950,0	1978 LI-HSIEN, SZECHUAN PROV	1978	LI-HSIEN, SZECHUAN PROV		CHN	31,40	102,45E	3000	N/A	6,61	R4	84,0		

SEED LIST

SEED BANK NUMBER	YEAR	PROVENANCE	PROV	CTRY	LAT	LONG	ELFTV (ft.)	COL. (m)	SEED TYPE	WEIGHT	TEST %	YEAR	Z	REMARKS
32,200-748350,0	1974	YAMASHI PREFECTURE	JPN	35.25	136.43	3500	R	B,63	75	7),5	26in. 120-150g.			
(32,290) PICEA HICOLOR	1978	WU-TIEN HSIEH MOUNTAINS	CHN	31.00	106.00E	2400	R	3,B7	B4	3B,6				
32,290-788530,0	(32,400) PICEA FUGELHANNI (Finsbann spruce)													
32,400-716150,0	1971	HIGHWOOD SUMMIT	ONT	45.07	77.28	365	N/A	2,44	70	35,0				
32,400-7186160,0	1971	HUNGRY HORSE	ONT	45.15	79.55	220	N/A	2,66	93	35,3				
32,400-7186170,0	1971	STANLEY	ONT	45.22	77.19	304	B	2,05	93	39,4				
32,400-7186180,0	1971	LARHATIE MOUNTAINS	ONT	44.18	78.36	426	S	3,97	93	91,0				
32,400-7679130,0	1976	TEMEY	ONT	45.14	77.56	394	N/A	2,23	93	39,5				
32,500-0019460,0	1953	DEFINISH	ONT	45.34	77.56	394	N/A	2,12	93	35,0				
32,500-0024370,0	1955	ANGUS	ONT	45.32	76.30	243	N/A	2,17	93	51,0				
32,500-0024560,0	1955	LAKE ST. PATRICK	ONT	45.50	82.55	205	N/A	2,30	93	58,5				
32,500-0024590,0	1956	AL BROWNEH PARK	ONT	45.59	71.22	304	S	1,84	83	38,0				
32,500-0024600,0	1956	MORNTHOOTH	ONT	45.36	68.07	304	S	1,78	83	36,0				
32,500-0024620,0	1956	HORNALLY LAKE	ONT	45.00	81.00	365	S	1,77	83	36,0				
32,500-0024660,0	1956	MANITOONISH IS.	ONT	45.23	75.09	396	S	2,02	83	50,0				
32,500-0024690,0	1956	AYLER LAKE	ONT	45.32	78.37	274	S	2,07	83	33,0				
32,500-0024740,0	1956	PRICE	ONT	45.59	71.51	304	S	2,36	83	38,0				
32,500-0024720,0	1956	ASHLEY MINES (WIGWAG LK)	ONT	45.59	71.22	304	S	1,84	83	38,0				
32,500-0024770,0	1956	DIADE LAKES	ONT	45.32	72.45	365	S	1,78	83	36,0				
32,500-0024840,0	1956	HITCHINGHAM KINS L.	ONT	45.23	75.09	396	S	1,77	83	36,0				
32,500-0024850,0	1956	LAC SIMONE	ONT	45.32	78.37	274	S	2,02	83	50,0				
32,500-0024850,0	1956	W. SEAU CREEK	MAN	56.56	92.51	304	S	2,07	83	33,0				
32,500-0025150,0	1960	ACANTA FOR. EXP. STA.	MB	46.00	66.21	76	S	2,36	83	65,5				
32,500-0026940,0	1960	DAULIE LAKES	BC	54.32	122.45	686	S	2,05	84	34,8				
32,500-0028420,0	1959	KAPUSKASING	ONT	48.51	B2.47	259	S	2,08	83	34,8				
32,500-0028700,0	1964	GRAND PILES	ONT	48.45	73.05	735	S	2,23	83	42,0				
32,500-0028950,0	1962	FORT SMITH	NTW	46.02	111.58	182	S	2,05	83	57,0	ST. 1401			
32,500-0031530,0	1947-2	WESTBATH TH. T.	ONT	45.50	76.50	121	S	2,05	83	57,0				
32,500-008064,0	1953	YOUNG CRK RD	ONT	46.00	77.30	6	1,98	84	30,0					
32,500-00310010,0	1953	KI-OMUYKE ROAD	PEI	46.25	62.20	60	S	2,46	83	60,1				
32,500-0040650,0	1956	CASEY	NUF	47.53	74.11	N/A	1,45	83	35,5					
32,500-0051530,0	1960	GYSUH MINES	NS	44.59	64.04	30	N/A	2,10	83	66,0				
32,500-0030480,0	1960	FOR. EXP. STATION	ONT	45.58	77.24	160	N/A	1,90	83	67,5				
32,500-0030340,0	1964	FOR. EXP. STATION	ONT	45.58	77.24	160	N/A	1,98	84	30,0				
32,500-003020,0	1965	FOR. EXP. STATION	ONT	46.00	77.20	182	S	2,42	83	41,2	ST. 1757			
32,500-003020,0	1965	FOR. EXP. STATION	ONT	46.00	77.20	182	S	2,90	83	41,2	ST. 1651			
32,500-003020,0	1965	FOR. EXP. STATION	ONT	46.00	77.20	182	S	2,40	83	64,9	ST. 1654			
32,500-003020,0	1965	FOR. EXP. STATION	ONT	46.00	77.20	182	S	2,24	83	45,5	ST. 1480			
32,500-003020,0	1965	FOR. EXP. STATION	ONT	46.00	77.20	182	S	2,25	83	45,5	ST. 1453			

SEED LIST

SEED	RANK	NUMBER	NURSERY COLL.	YEAR	PROVENANCE	PROV	CTRY	LAT	LONG	FLPL	COLL	SEED	YEAR	% TESTD	GERM	REMARKS
								(°)	(m)	TYPE						
32,500-66630010,0	1966	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	N/A	2,94	83	69,5			
32,500-66630020,0	1966	PEI.	FOR, EXP.	STATION	ONT	CAN	46,00	77,20	182	N/A	3,24	83	88,0	ST, 1861		
32,500-6630020,0	1966	PEI.	FOR, EXP.	STATION	ONT	CAN	46,00	77,20	182	S	3,11	88		ST, 1861		
32,500-6631040,0	1966	PET.	FOR, EXP.	STATION	OHT	CAN	45,00	77,20	182	S	3,13	88		ST, 1861		
32,500-6632390,0	1966	PET.	FOR, EXP.	STATION	OHT	CAN	45,58	77,24	180	S	3,23	84	75,0	ST, 1861		
32,500-6730660,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	75,5	ST, 1861		
32,500-6730670,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	75,5	ST, 1861		
32,500-6730680,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	75,5	ST, 1861		
32,500-6730690,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	75,5	ST, 1861		
32,500-6730700,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	75,5	ST, 1861		
32,500-6730710,0	1967	PEI.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	68,0	ST, 1862		
32,500-6730740,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	67,8	ST, 1861		
32,500-6730750,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	75,0	ST, 1862		
32,500-6730760,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	89,0	ST, 1862		
32,500-6730800,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	96,0	ST, 1746		
32,500-6730830,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	66,0	ST, 1747		
32,500-6731000,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	63,5	ST, 1862		
32,500-6731020,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	77,5	ST, 1862		
32,500-6731030,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	97,6	ST, 1862		
32,500-6731050,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	96,5	ST, 1862		
32,500-6731060,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	96,5	ST, 1862		
32,500-6731110,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	96,5	ST, 1862		
32,500-6731120,0	1967	PET.	FOR, EXP.	STATION	OHT	CAN	46,00	77,20	182	S	3,23	83	96,5	ST, 1862		
32,500-6731130,0	1967	SAULT ST. MARIE	OHT	STATION			46,31	84,20	N/A	N/A	2,28	83	96,5	ST, 1862		
32,500-6800190,0	1968	GANDER	NFLN	CAN	AB, 57	54,45	91				1,64	83	89,5	ST, 1859		
32,500-7000780,0	1968		NFLD	CAN	AB, 55	53,51	106	R			1,53	83	90,0	ST, 1864		
32,500-7000790,0	1968		NFLD	CAN	AB, 54	52,36	45	B			1,53	83	37,0	ST, 1865		
32,500-7011120,0	1968		NFLD	CAN	54,20	60,25	30	N/A			2,44	83	96,5	ST, 1856		
32,500-7011130,0	1968		NFLN	CAN	46,31	84,20	182	S			2,54	83	62,5	ST, 1857		
32,500-7011140,0	1968		NFLN	CAN	48,57	54,45	91	R			2,40	83	60,5	ST, 1856		
32,500-7011150,0	1968		NFLN	CAN	48,55	53,51	106	R			2,40	83	77,5	ST, 1857		
32,500-7011160,0	1968		NFLN	CAN	48,54	52,36	45	B			3,20	83	94,5	ST, 1857		
32,500-7011170,0	1968		NFLN	CAN	54,20	60,25	30	N/A			2,35	83	92,0	ST, 1857		
32,500-7010750,0	1968	ACADIA FOR. EXP., STA.	OHT	CAN	46,00	66,21	74	N/A			2,10	83	60,5	ST, 1856		
32,500-7011120,0	1969		OUE	CAN	45,47	61,56	91	N/A			2,21	83	37,5	ST, 1856		
32,500-7011130,0	1969		OUE	CAN	46,16	60,37	137	R			2,28	83	96,5	3-13m* 15-4Bg		
32,500-7011140,0	1969		OUE	CAN	45,57	61,18	167	B			2,60	83	69,0	15-30cm* 11m* 70m		
32,500-7011150,0	1969		OUE	CAN	45,32	66,21	167	N/A			2,13	83	92,0	1Bcm* 39-47m		
32,500-7020760,0	1969		OUE	CAN	48,15	65,27	185	S			2,34	83	64,5	1Bcm* 15m* 70m		
32,500-7020770,0	1969		OUE	CAN	46,39	72,36	131	S			2,20	83	95,5	1Bcm* 15m* 70m		
32,500-7020800,0	1969		OUE	CAN	45,31	73,54	213	S			2,62	83	95,5	1Bcm* 12m* 40m		
32,500-7020810,0	1969		OUE	CAN	45,18	70,53	873	S			2,89	83	95,5	20cm* 14m* 70m		
32,500-7030550,0	1970		OUE	CAN	45,45	76,50	332	S			2,44	84	33,0	ST, 2451		
32,500-7030560,0	1970		OUE	CAN	45,45	76,50	137	S			2,47	83	89,5	ST, 2452		
32,500-7030740,0	1970		OUE	CAN	47,15	83,35	228	R			2,27	83	96,0	ST, 2460		
32,500-7030640,0	1970		OUE	CAN	52,11	116,00	1524	N/A			2,55	83	93,5	ST, 2463		
32,500-7030670,0	1970		OUE	CAN	52,35	115,15	762	N/A			2,60	83	92,5	20cm* 14m* 70m		
32,500-7030700,0	1970		OUE	CAN	53,14	114,36	610	R			2,32	83	62,4	ST, 2469		
32,500-7030730,0	1970		OUE	CAN	55,20	116,40	1327	N/A			2,11	83	38,0	ST, 2469		
32,500-7031130,0	1970		OUE	CAN	49,10	91,15	265	N/A			2,23	83	65,0			
32,500-7061820,0	1970		OUE	CAN	52,11	116,00	1524	N/A			2,27	83	91,5	1B-24m 90-140m		
32,500-7061830,0	1970		OUE	CAN	52,11	116,00	1524	N/A			2,70	83	87,0			
32,500-7061840,0	1970		OUE	CAN	52,11	116,00	1524	N/A			2,60	83	82,5			
32,500-7063220,0	1970		OUE	CAN	52,11	116,00	1524	N/A			2,32	83	62,4			
32,500-70702020,0	1970		OUE	CAN	52,11	116,00	1524	N/A			2,11	83	38,0			

SEED TEST

SEED BANK NUMBER	NURSERY	YEAR	PROVENANCE	PROV	CTRY	LAT	LONG	FLEU	COLL.	SEED	YEAR	Z	WEIGHT	TSTH	GERM	REMARKS
(in)	(in)							(in)	(in)							
32,500-7073740-0	S 8217	1970	FARROTT L.H.	RC	CAN	54.11	126.40	823	R	1.83	R3	42.7				
32,500-7073760-0	S 8219	1970	GAGNON CP.	BC	CAN	52.15	123.05	914	R	2.00	R3	45.7				
32,500-7073800-0	S 8223	1970	KCDAHE POST	BC	CAN	59.10	129.15	762	R	1.91	R3	42.5				
32,500-7073820-0	S 8225	1970	FORT FRASER	BC	CAN	51.52	124.37	762	R	1.79	R3	35.5				
32,500-7073830-0	S 8226	1970	LOWER POST	BC	CAN	59.55	128.30	640	R	1.79	R3	35.5				
32,500-7100450-0	S 6171	1971	PASAFINA	NFLD	CAN	49.04	57.37	n/a	n/a	3.01	R3	98.2				
32,500-7130500-0	1971	ALICE		ONT	CAN	45.45	77.18	182	n/a	2.70	R3	94.0				
32,500-7130510-0	1971	ALICE		ONT	CAN	45.45	77.18	182	n/a	2.28	R3	47.8				
32,500-7130540-0	1971	ALICE		ONT	CAN	45.45	77.18	182	n/a	3.36	R3	48.4				
32,500-7130550-0	1971	ALICE		ONT	CAN	45.45	77.18	182	n/a	2.24	R3	73.0				
32,500-7130560-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.48	R3	95.0				
32,500-7130570-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.69	R3	98.6				
32,500-7130580-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.63	R3	96.5				
32,500-7130590-0	1971	WHITEH		ONT	CAN	45.31	78.15	457	S	2.50	R3	98.5				
32,500-7130600-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.36	R3	96.0				
32,500-7130610-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	R	2.50	R3	68.0				
32,500-7130620-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.09	R3	98.0				
32,500-7130630-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.23	R3	97.0				
32,500-7130640-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.90	R3	97.4				
32,500-7130650-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	3.21	R3	95.0				
32,500-7130660-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	1.92	R3	98.0				
32,500-7130670-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	7.15	R3	87.0				
32,500-7130680-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	S	2.27	R3	90.5				
32,500-7130700-0	1971	WHITEH		ONT	CAN	45.33	78.15	457	R	2.49	R3	81.0				
32,500-7132350-0	S 8214-1	1971	WHITEH	ONT	CAN	45.33	78.15	457	R	2.39	R3	78.5				
32,500-7132360-0	S 8214-3	1971	WHITEH	ONT	CAN	45.33	78.15	457	S	2.39	R3	70.7				
32,500-7132370-0	S 8016-2	1971	TROUT CREEK	RNU	CAN	45.59	79.27	335	S	3.54	R3	72.5				
32,500-7132420-0	S 8016-3	1971	TROUT CREEK	RNU	CAN	45.59	79.27	335	S	3.34	R3	87.5				
32,500-7132470-0	S 8016-8	1971	TROUT CREEK	RNU	CAN	45.59	79.27	335	S	2.60	R3	82.0				
32,500-7132520-0	S 8016-10	1971	TROUT CREEK	RNU	CAN	45.59	79.27	335	S	2.45	R3	93.0				
32,500-7132540-0	S 8016-10	1971	TROUT CREEK	RNU	CAN	46.36	79.10	304	S	2.14	R3	96.0				
32,500-7132550-0	S 8153-1	1971	BIG JACKO RIVER	ONT	CAN	45.59	79.27	304	S	2.41	R3	93.5				
32,500-7132560-0	S 8153-2	1971	BIG JACKO RIVER	ONT	CAN	46.36	79.10	304	S	2.05	R3	100.0				
32,500-7132570-0	S 8153-3	1971	BIG JACKO RIVER	ONT	CAN	46.36	79.10	304	S	3.34	R3	94.0				
32,500-7132580-0	S 8153-4	1971	BIG JACKO RIVER	ONT	CAN	46.36	79.10	304	S	2.27	R3	92.0				
32,500-7132590-0	S 8153-5	1971	BIG JACKO RIVER	ONT	CAN	46.36	79.10	304	S	2.60	R3	92.0				
32,500-7132620-0	S 8019-3	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.36	79.04	228	S	2.34	R3	93.0				
32,500-7132630-0	S 8153-9	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.22	R3	92.0				
32,500-7132640-0	S 8153-10	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.33	R3	94.5				
32,500-7132650-0	S 8019-1	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.91	R3	97.5				
32,500-7132660-0	S 8019-2	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.09	R3	62.5				
32,500-7132670-0	S 8019-3	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	1.89	R3	99.5				
32,500-7132690-0	S 8019-5	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.18	R3	92.0				
32,500-7132700-0	S 8019-6	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.10	R3	50.0				
32,500-7132710-0	S 8019-7	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.39	R3	94.0				
32,500-7132720-0	S 8019-8	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.18	R3	92.0				
32,500-7132730-0	S 8019-9	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.10	R3	50.0				
32,500-7132740-0	S 8019-10	1971	RUTHERGLEN	CAL OTH TR.	CAN	46.17	79.04	228	S	2.39	R3	94.0				

SEED LIST

SEED BANK NUMBER	NUMBER	YEAR	FOLI.	PROVENANCE	PROV	CTRY	LAT.	LONG.	FLD	COL.	TYPE	WEIGHT	TSTH	GER	%	YEAR	SEED	REMARKS
32,500-7132790-0	6	1971	RO20-5	ESTATE, SERVOS Tp.	ONT	CAN	46° 3' 4	80° 43'	213	S	2,26	83	94,0					
32,500-7132810-0	8	1971	RO20-7	ESTATE, SERVOS Tp.	ONT	CAN	46° 3' 4	80° 43'	213	S	1,58	83	93,5					
32,500-7132840-0	5	1971	RO37-1	SEARCH6047	ONT	CAN	46° 4'	83° 54'	63	S	2,72	83	98,5					
32,500-7132870-0	5	1971	RO37-4	SEARCH6047	ONT	CAN	46° 4'	83° 56'	365	S	2,52	83	79,0					
32,500-7132900-0	9	1971	RO39-8	MOMA	ONT	CAN	47° 55'	84° 45'	304	S	2,41	83	48,0					
32,500-7133010-0	6	1971	RO45-1	ROUCHARD LAKE	ONT	CAN	48° 47'	85° 30'	457	S	2,16	83	99,0					
32,500-7133010-0	5	1971	RO45-2	ROUCHARD LAKE	ONT	CAN	48° 47'	85° 30'	457	S	2,34	83	92,5					
32,500-7133040-0	5	1971	RO45-5	ROUCHARD LAKE	ONT	CAN	48° 47'	85° 30'	457	S	1,59	83	BR,5					
32,500-7133050-0	5	1971	RO45-6	ROUCHARD LAKE	ONT	CAN	48° 47'	85° 30'	457	S	2,37	83	98,0					
32,500-7133060-0	5	1971	RO45-7	ROUCHARD LAKE	ONT	CAN	48° 47'	85° 30'	457	S	1,71	83	58,5					
32,500-7133070-0	6	1971	RO45-8	ROUCHARD LAKE	ONT	CAN	48° 47'	85° 30'	457	S	1,60	83	B6,0					
32,500-7133110-0	5	1971	RO87-3	PINEFON RIVER	ONT	CAN	48° 01'	89° 39'	304	S	1,94	83	59,5					
32,500-7133160-0	5	1971	RO87-8	PINEFON RIVER	ONT	CAN	48° 01'	89° 39'	304	S	1,65	83	54,5					
32,500-7133180-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 37'	90° 11'	457	S	2,24	83	94,5					
32,500-7133190-0	6	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 37'	90° 11'	457	S	1,92	83	85,5					
32,500-7133210-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 37'	90° 11'	457	S	2,10	83	66,5					
32,500-7133220-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 37'	90° 11'	457	S	2,34	83	98,5					
32,500-7133230-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 40'	91° 25'	426	S	1,42	83	76,5					
32,500-7133260-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 40'	91° 25'	426	S	1,70	83	69,5					
32,500-7133280-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 40'	91° 25'	426	S	1,91	83	77,0					
32,500-7133290-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 40'	91° 25'	426	S	1,54	83	87,0					
32,500-7133300-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 42'	91° 25'	426	S	2,10	83	92,5					
32,500-7133400-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,54	83	90,5					
32,500-7133410-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	2,67	83	96,5					
32,500-7133420-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,96	83	95,5					
32,500-7133430-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,91	83	87,0					
32,500-7133440-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,64	83	90,0					
32,500-7133450-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,92	83	76,5					
32,500-7133460-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,64	83	99,0					
32,500-7133470-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,63	83	93,0					
32,500-7133480-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,84	83	89,5					
32,500-7133490-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	1,87	83	90,0					
32,500-7133500-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	48° 57'	93° 56'	365	S	2,16	83	90,5					
32,500-7133510-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,14	83	69,0					
32,500-7133520-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,17	83	96,5					
32,500-7133530-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,09	83	87,0					
32,500-7133540-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,22	83	63,5					
32,500-7133550-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,73	83	77,5					
32,500-7133560-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,01	83	74,5					
32,500-7133570-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	1,92	83	88,5					
32,500-7133580-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,11	83	85,0					
32,500-7133590-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,50	83	76,5					
32,500-7133600-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,29	83	97,0					
32,500-7133610-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,36	83	90,0					
32,500-7133620-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	1,89	83	BR,5					
32,500-7133630-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,40	83	99,0					
32,500-7133640-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	1,78	83	76,5					
32,500-7133650-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,08	83	99,0					
32,500-7133660-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,36	83	94,0					
32,500-7133670-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	1,91	83	74,5					
32,500-7133680-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,11	83	85,0					
32,500-7133690-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,50	83	63,5					
32,500-7133700-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,29	83	97,0					
32,500-7133710-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,36	83	95,0					
32,500-7133720-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	1,70	83	94,0					
32,500-7133730-0	5	1971	SH-BNDMAN	SH-BNDMAN	ONT	CAN	49° 30'	94° 04'	335	S	2,08	83	69,5					

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROVENANCE	PROV	CTRY	LAT	LONG	FILE#	CULI (in)	SEED WEIGHT	YEAR	%	REMARKS
32,500-7133710,0	S 8100-2	1971	RAINY LAKE	ONT	CAN	48,42	93,03	335	S	2.00	83	35.0	
32,500-7133720,0	S 8100-3	1971	RAINY LAKE	ONT	CAN	48,42	93,03	335	S	2.12	83	68.5	
32,500-7133730,0	S 8100-4	1971	RAINY LAKE	ONT	CAN	48,42	93,03	335	S	1.86	83	37.5	
32,500-7133740,0	S 8104-3	1971	CAMP RABBITSON	ONT	CAN	50,10	93,15	365	S	2.53	83	98.5	32cm+16m+80%
32,500-7133780,0	S 8107-1	1971	STOIX LONCOL	ONT	CAN	50,07	91,50	381	S	2.75	83	67.5	
32,500-7133860,0	S 8108-1	1971	EAR FALLS	ONT	CAN	50,40	93,12	365	S	2.57	83	51.0	26cm+16m
32,500-7133910,0	S 8108-1	1971	EAR FALLS	ONT	CAN	50,40	93,12	365	S	2.77	83	64.0	26cm+16m
32,500-7133920,0	S 8108-2	1971	EAR FALLS	ONT	CAN	50,40	93,12	365	S	2.32	83	93.5	29cm+17m+6.4%
32,500-7133930,0	S 8108-3	1971	EAR FALLS	ONT	CAN	51,02	93,48	365	S	2.35	83	91.0	24cm+16m
32,500-7134050,0	S 8109-5	1971	RED LAKE	ONT	CAN	49,70	99,03	274	S	1.79	83	97.5	21m+50cm
32,500-7134100,0	S 8057-1	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	1.49	83	73.5	
32,500-7134100,0	S 8057-2	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	2.26	83	93.5	
32,500-7134110,0	S 8057-3	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	2.10	83	99.0	
32,500-7134120,0	S 8057-3	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	2.27	83	96.0	
32,500-7134130,0	S 8057-4	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	1.72	83	95.0	
32,500-7134140,0	S 8057-5	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	2.05	83	95.5	
32,500-7134150,0	S 8057-6	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	2.25	83	94.0	
32,500-7134160,0	S 8057-7	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	1.74	83	94.0	
32,500-7134170,0	S 8057-8	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	1.77	83	82.0	
32,500-7134180,0	S 8057-9	1971	BLACK STURGEON LAKE	ONT	CAN	49,30	99,03	274	S	2.23	83	49.5	
32,500-7134190,0	S 8057-10	1971	BLACK STURGEON LAKE	ONT	CAN	49,05	81,15	289	N/A	1.94	83	80.0	
32,500-7135630,0	S 8060-1	1971	CLUTE TV.	ONT	CAN	48,15	62,00	N/A		2.28	83	75.0	20-24m+70-100%
32,500-7136210,0	S 8133-1	1971	REFUG TWP. FOLLYTT	ONT	CAN	51,05	104,50	507	H	2.13	83	17-20m+50-70%	
32,500-7151000,0	S 8134-1	1971	GUTHL LAKE	SASK	CAN	53,50	108,40	640	H	2.07	83	66.0	
32,500-7151010,0	S 8135	1971	HFADOW LAKE	SASK	CAN	52,51	108,29	426	S	2.82	83	99.5	
32,500-7151030,0	S 8136	1971	RUFFALO MARSHES	ONT	CAN	46,00	77,20	182	S	2.35	83	50.5	
32,500-7230710,0	1972	FET, FOR, EXP, STATION	ONT	CAN	46,00	77,20	182	N/A	2.44	83	87.0		
32,500-7230730,0	1972	FET, FOR, EXP, STATION	ONT	CAN	45,50	77,20	182	N/A	2.44	83	93.0		
32,500-7230750,0	1972	FET, FOR, EXP, STATION	ONT	CAN	46,00	77,20	182	N/A	2.44	83	93.0		
32,500-7230770,0	1972	SANI I. ROAD	ONT	CAN	45,50	77,20	182	S	2.64	83	58.5		
32,500-7230780,0	1972	FET, FOR, EXP, STATION	ONT	CAN	46,00	77,20	182	S	2.39	83	96.5		
32,500-7230790,0	1972	SANI I. ROAD	ONT	CAN	45,50	77,20	182	S	2.52	83	92.5		
32,500-7230800,0	1972	SANI I. ROAD	ONT	CAN	46,00	77,20	182	S	2.94	83	100.0	30cm+9m	
32,500-7230810,0	1972	FET, FOR, EXP, STATION	ONT	CAN	45,45	76,50	137	N/A	3.45	83	95.5		
32,500-7230820,0	1972	BEAUCHURG	ONT	CAN	45,45	76,50	137	N/A	3.02	83	97.5		
32,500-7230830,0	1972	BEAUCHURG	ONT	CAN	45,45	76,50	137	S	2.80	83	99.5	39cm+14m	
32,500-7230840,0	1972	BEAUCHURG	ONT	CAN	45,45	76,50	137	S	2.93	83	90.0	25cm+12m	
32,500-7230850,0	1972	BEAUCHURG	ONT	CAN	45,45	77,15	152	S	2.41	83	85.0	48cm+16m	
32,500-7230860,0	1972	BEAUCHURG	ONT	CAN	45,52	77,30	243	S	2.78	83	64.5	53cm+12m	
32,500-7230870,0	1972	BEAUCHURG	ONT	CAN	45,52	77,30	243	S	2.69	83	90.5	25cm+9m	
32,500-7230880,0	1972	FET, FOR, EXP, STATION	ONT	CAN	45,45	77,10	152	S	2.71	83	85.0		
32,500-7230890,0	1972	FET, FOR, EXP, STATION	ONT	CAN	45,45	77,17	300	S	3.32	83	86.5		
32,500-7230900,0	1972	FET, FOR, EXP, STATION	ONT	CAN	45,45	77,17	300	S	2.69	83	92.5		
32,500-7230910,0	1972	FET, FOR, EXP, STATION	ONT	CAN	45,45	78,08	365	N/A	2.90	83	96.5		
32,500-7231140,0	S 8027-4	1972	TRUEF CREEK	ONT	CAN	45,45	78,08	365	N/A	2.02	83	94.5	
32,500-7231160,0	S 8027-6	1972	TRUEF CREEK	ONT	CAN	45,45	78,17	300	S	2.74	83	86.5	
32,500-7231230,0	S 8037-13	1972	TRUEF CREEK	ONT	CAN	45,00	77,17	300	R(3)	3.04	83	92.5	
32,500-7230980,0	1972	APSLLEY	ONT	CAN	44,45	78,08	365	N/A	2.02	83	94.5		
32,500-7231260,0	1972	APSLLEY	ONT	CAN	44,45	78,08	365	N/A	2.02	83	94.5		
32,500-7231270,0	1972	APSLLEY	ONT	CAN	44,45	78,08	365	N/A	2.02	83	94.5		

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR GROWN	PRODUCT NAME	PROV.	CTRY.	LAT.	LONG.	FLNU COLL. (#)	COLL. TYPE	SEED #	YEAR TESTED	GERM.	REMARKS
32,500-7232090,0	S 8021-7	1972	PFT, FOR, EXP, STATION	ONT	CAN	46,00	77,20	182	S	2,5B	4,8		
32,500-7232640,0	S 8114	1972	HORN TP.	ONT	CAN	46,20	81,41	243	S	2,35	8,3		
32,500-7330600,0	S 8110-3	1973	NEFTE LAKF	ONT	CAN	49,57	92,31	396	S	2,07	8,3		
32,500-7330620,0	S 8110-5	1973	NEFTE L AKF	ONT	CAN	49,57	92,31	396	S	3,63	8,4		
32,500-7330850,0	S 8068-6	1973	UPSAKA	ONT	CAN	49,04	90,31	487	S	2,16	8,3		
32,500-7330870,0	S 8068-8	1973	UPSAKA	ONT	CAN	49,04	90,31	487	S	2,22	8,3		
32,500-7330880,0	S 8068-9	1973	UPSAKA	ONT	CAN	49,04	90,31	487	S	2,15	8,3		
32,500-7331660,0	S 8113-3	1973	UCHI LAKE	ONT	CAN	50,48	93,08	381	S	1,97	8,3		
32,500-7333330,0	S 8114	1973	FAE FALLS	ONT	CAN	50,42	93,22	391	R	2,22	8,3		
32,500-7333340,0	S 8115	1973	REF. LAKE, DOME TP.	ONT	CAN	51,06	93,46	396	B	2,18	8,3		
32,500-7333500,0	S 8102	1973	WHITE RING FALLS	ONT	CAN	50,07	94,52	350	R	2,16	8,3		
32,500-7341260,0	S 8130	1973	RIVERTON	ONT	CAN	51,00	97,00	213	R	2,52	7,6		
32,500-7341270,0	S 8131	1973	REFUG. L.	ONT	CAN	50,25	95,36	274	R	2,40	8,3		
32,500-7341280,0	S 8129	1973	ANGLE TNL.F	ONT	CAN	49,19	95,20	335	H	2,11	8,3		
32,500-7341290,0	S 8129	1973	W.F.T. HAWK L.	ONT	CAN	49,47	95,15	335	R	2,14	8,3		
32,500-7342210,0	S 8716-2	1973	N.W. DUCK HI.	ONT	CAN	51,45	101,12	620	N/A	2,24	8,3		
32,500-7342240,0	S 8716-5	1973	N.W. DUCK HI.	ONT	CAN	51,45	101,12	670	N/A	2,36	8,3		
32,500-7350190,0	S 8024-1	1973	HEAVY LAKE	SASK	CAN	54,10	101,19	N/A		2,38	8,4		
32,500-7430410,0	S 8024-2	1974	PFT. FOR, EXP, STATION	ONT	CAN	46,00	77,26	160	S	2,35	7,6	46cm+14m	
32,500-7430420,0	S 8024-3	1974	PFT. FOR, EXP, STATION	ONT	CAN	46,00	77,26	160	S	1,91	7,7	34cm+14m	
32,500-7430430,0	S 8024-4	1974	PET. FOR, EXP, STATION	ONT	CAN	46,00	77,26	160	S	1,83	7,8	38cm+15m	
32,500-7430450,0	S 8024-6	1974	PET. FOR, EXP, STATION	ONT	CAN	46,00	77,26	160	S	2,17	9B,7	42cm+20m	
32,500-7430460,0	S 8024-7	1974	PET. FOR, EXP, STATION	ONT	CAN	45,58	77,24	160	S	2,50	7,5	39cm+17m	
32,500-7430500,0	S 8024-11	1974	PET. FOR, EXP, STATION	ONT	CAN	46,00	77,26	160	S	1,93	8,3		
32,500-7430540,0	S 8155-1	1974	DOUGLAS	ONT	CAN	45,30	77,01	121	S	2,57	7,7	46cm+22m	
32,500-7430560,0	S 8155-3	1974	DOUGLAS	ONT	CAN	45,30	77,01	121	S	2,26	83	85,0	30cm+17m
32,500-7430570,0	S 8155-4	1974	DOUGLAS	ONT	CAN	45,30	77,01	121	S	2,00	77	97,5	32cm+15m
32,500-7430580,0	S 8155-5	1974	DOUGLAS	ONT	CAN	45,30	77,01	121	S	2,47	7,7	69,0	
32,500-7430590,0	S 8155-6	1974	DOUGLAS	ONT	CAN	45,35	77,00	121	S	2,66	7,7	94,0	43cm+15m
32,500-7430600,0	S 8155-7	1974	DOUGLAS	ONT	CAN	45,35	77,00	121	S	1,91	7,7	94,0	27cm+14m
32,500-7430610,0	S 8155-8	1974	DOUGLAS	ONT	CAN	45,35	77,00	121	S	2,43	83	94,0	33cm+17m
32,500-7430620,0	S 8155-9	1974	DOUGLAS	ONT	CAN	45,35	77,00	121	S	2,39	7,7	97,5	39cm+19m
32,500-7430630,0	S 8155-10	1974	DOUGLAS	ONT	CAN	45,35	77,00	121	S	2,87	83	47cm+21m	
32,500-7430650,0	S 8155-12	1974	DOUGLAS	ONT	CAN	45,38	77,04	152	S	2,46	7,8	24cm+12m	
32,500-7430660,0	S 8155-13	1974	DOUGLAS	ONT	CAN	45,38	77,04	152	S	2,86	83	94,0	37cm+12m
32,500-7430670,0	S 8028-1	1974	REFEFU	ONT	CAN	45,28	76,38	121	S	2,21	75	92,5	46cm+16m
32,500-7430700,0	S 8028-4	1974	REFEFU	ONT	CAN	45,28	76,38	121	S	1,99	75	98,5	47cm+19m
32,500-7430720,0	S 8028-5	1974	REFEFU	ONT	CAN	45,28	76,44	121	S	2,31	71	97,5	27cm+9m
32,500-7430750,0	S 8028-9	1974	REFEFU	ONT	CAN	45,28	76,44	121	S	2,39	75	96,5	36cm+18m
32,500-7430760,0	S 8028-10	1974	REFEFU	ONT	CAN	45,28	76,44	121	S	2,19	75	99,5	41cm+12m
32,500-7430790,0	S 8028-13	1974	REFEFU	ONT	CAN	45,19	76,11	121	S	2,07	75	96,0	30cm+15m
32,500-7430800,0	S 8028-14	1974	REFEFU	ONT	CAN	45,19	76,11	121	S	2,79	83	98,0	22cm+11m
32,500-7430810,0	S 8028-15	1974	REFEFU	ONT	CAN	45,28	76,44	121	S	3,34	83	94,0	24cm+11m
32,500-7430830,0	S 8028-16	1974	REFEFU	ONT	CAN	45,28	76,44	121	S	2,59	84	97,0	27cm+9m
32,500-7430850,0	S 8028-17	1974	ASTREH	ONT	CAN	45,19	76,11	121	S	2,39	75	99,5	41cm+12m
32,500-7430860,0	S 8028-18	1974	ASTREH	ONT	CAN	45,19	76,11	121	S	2,11	75	97,0	41cm+15m
32,500-7430870,0	S 8028-19	1974	ASTREH	ONT	CAN	45,19	76,11	121	S	2,31	75	97,0	39cm+12m
32,500-7430890,0	S 8025-1	1974	BONCROFT	ONT	CAN	45,06	77,58	381	S	2,25	77	97,5	25cm+9m
32,500-7430950,0	S 8025-2	1974	BONCROFT	ONT	CAN	45,06	77,58	381	S	1,94	83	92,0	28cm+14m
32,500-7430970,0	S 8025-4	1974	BONCROFT	ONT	CAN	45,06	77,58	381	S	1,83	75	99,5	35cm+15m

SEEN LIST

SEEID	BANK NUMBER	YEAR	COL.	PROVENANCE	PROV	CTRY	LAT	LONG	FLFLU	COLI	SEEID	YEAR	TEST	GERM	REMARKS
						(in)	(in)	(in)	TYPF	(in)					
32-500-7430980,0	S 8025-5	1974	BANCROFT		ONT	45.06	78.02	39.6	S	1.95	77	97.5	44cm, 27m		
32-500-7431000,0	S 8025-7	1974	BANCROFT		ONT	45.06	78.02	39.6	S	1.87	77	89.0	48cm, 24m		
32-500-7431010,0	S 8025-8	1974	BANCROFT		ONT	45.06	78.02	39.6	S	1.77	77	94.5	45cm, 30m		
32-500-7431020,0	S 8025-9	1974	BANCROFT		ONT	45.06	78.02	39.6	S	2.52	77	BB.5	41cm, 23m		
32-500-7431030,0	S 8025-10	1974	BANCROFT		ONT	45.06	78.02	39.6	S	3.22	75	93.5	51cm, 24m		
32-500-7431040,0	S 8025-11	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	34.5	S	2.00	75	93.4	53cm, 15m		
32-500-7431050,0	S 8025-12	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.35	75	84.7	54cm, 17m		
32-500-7431060,0	S 8025-13	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.15	75	68.5	55cm, 18m		
32-500-7431070,0	S 8025-14	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.29	75	94.0	32cm, 21m		
32-500-7431080,0	S 8025-15	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.31	83	86.0	42cm, 20m		
32-500-7431090,0	S 8025-16	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.35	83	90.0	49cm, 17m		
32-500-7431100,0	S 8025-17	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.58	83	96.0	39cm, 20m		
32-500-7431110,0	S 8025-18	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.18	83	98.0	35cm, 18m		
32-500-743120,0	S 8025-19	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.59	75	86.0	30cm, 20m		
32-500-743130,0	S 8025-20	1974	APSLFY, ANSTROTHER TP.		ONT	44.55	78.04	36.5	S	2.64	75	90.5	39cm, 18m		
32-500-743130,0	S 8025-21	1974	SILVER LAKE		ONT	44.49	76.43	102	S	2.06	77	87.0	32cm, 10m		
32-500-743130,0	S 8025-22	1974	SILVER LAKE		ONT	44.49	76.43	102	S	2.26	77	92.5	28cm, 20m		
32-500-7431230,0	S 8025-23	1974	SILVER LAKE		ONT	44.49	76.43	102	S	2.55	83	96.0	26cm, 12m		
32-500-7431240,0	S 8025-24	1974	SILVER LAKE		ONT	44.49	76.43	102	S	2.20	77	81.0	9-18m		
32-500-7431250,0	S 8025-25	1974	SILVER LAKE		ONT	44.49	76.43	102	S	2.71	83	99.0	26cm, 17m		
32-500-7431260,0	S 8025-26	1974	SILVER LAKE		ONT	44.49	76.43	102	S	2.17	77	96.0	54cm, 20m		
32-500-7431270,0	S 8025-27	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.73	74	99.2	37cm, 20m		
32-500-7431280,0	S 8025-28	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.73	74	99.2	32cm, 12m		
32-500-7431290,0	S 8025-29	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.55	83	96.0	40cm, 15m		
32-500-7431300,0	S 8025-30	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.20	77	87.0	45cm, 20m		
32-500-7431310,0	S 8025-31	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.94	77	97.5	35cm, 15m		
32-500-7431320,0	S 8025-32	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.15	74	100.0	50cm, 14m		
32-500-7431330,0	S 8025-33	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.35	83	98.0	39cm, 17m		
32-500-7431340,0	S 8025-34	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.34	74	99.2	32cm, 12m		
32-500-7431350,0	S 8025-35	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.63	77	99.0	34cm, 15m		
32-500-7431360,0	S 8025-36	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.97	74	99.7	26cm, 9m		
32-500-7431370,0	S 8025-37	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.67	63	98.0	50cm, 15m		
32-500-7431380,0	S 8025-38	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.17	74	98.5	38cm, 14m		
32-500-7431390,0	S 8025-39	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.09	83	100.0	34cm, 15m		
32-500-7431400,0	S 8025-40	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.77	74	97.5	37cm, 15m		
32-500-7431410,0	S 8025-41	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.42	83	94.0	37cm, 15m		
32-500-7431420,0	S 8025-42	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.00	74	98.2	36cm, 20m		
32-500-7431430,0	S 8025-43	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.31	83	100.0	38cm, 20m		
32-500-7431440,0	S 8025-44	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.53	74	98.5	41cm, 17m		
32-500-7431450,0	S 8025-45	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.96	74	98.5	40cm, 17m		
32-500-7431460,0	S 8025-46	1974	WHITEY		ONT	45.32	76.16	39.6	S	3.00	83	100.0	42cm, 20m		
32-500-7431470,0	S 8025-47	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.25	74	98.5	40cm, 17m		
32-500-7431480,0	S 8025-48	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.99	74	99.2	36cm, 20m		
32-500-7431490,0	S 8025-49	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.53	83	97.0	25cm, 17m		
32-500-7431500,0	S 8025-50	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.94	74	98.5	45cm, 24m		
32-500-7431510,0	S 8025-51	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.41	83	100.0	40cm, 17m		
32-500-7431520,0	S 8025-52	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.42	83	95.0	42cm, 20m		
32-500-7431530,0	S 8025-53	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.00	74	98.2	36cm, 20m		
32-500-7431540,0	S 8025-54	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.53	83	97.0	41cm, 17m		
32-500-7431550,0	S 8025-55	1974	WHITEY		ONT	45.32	76.16	39.6	S	1.96	74	98.5	40cm, 17m		
32-500-7431560,0	S 8025-56	1974	WHITEY		ONT	45.32	76.16	39.6	S	3.00	83	100.0	42cm, 20m		
32-500-7431570,0	S 8025-57	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.28	83	100.0	30cm, 17m		
32-500-7431580,0	S 8025-58	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.26	74	98.4	40cm, 18m		
32-500-7431590,0	S 8025-59	1974	WHITEY		ONT	45.32	76.16	39.6	S	2.49	83	98.0	43cm, 17m		
32-500-7431600,0	S 8025-60	1974	WHITEY		ONT	45.32	76.16	39.6	S	3.43	83	100.0	40cm, 20m		

SELF.	BANK	NUMBER	YEAR	NURSERY	NUMBER	PROV	CTRY	LAT	LONG	FLEW	COLL	SEED	YEAR	%	REMARKS
										(m)	TYPE	WEIGHT	BTW	GFRM	
32,500-7431570-0	S	8015-30	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,72	83	100,0	51cm, 1m
32,500-7431580-0	S	8015-31	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,22	74	93,5	64cm, 2m
32,500-7431590-0	S	8015-32	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	1,94	74	99,3	
32,500-7431600-0	S	8015-33	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,34	74	98,0	
32,500-7431610-0	S	8015-34	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,18	83	100,0	70cm, 1.1m
32,500-7431620-0	S	8015-35	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,20	**	97,8	79cm, 1.4m
32,500-7431630-0	S	8015-36	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,02	83	100,0	41cm, 1.2m
32,500-7431640-0	S	8015-37	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,32	74	98,6	23cm, 1.4m
32,500-7431650-0	S	8015-38	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	1,86	83	100,0	46cm, 1.8m
32,500-7431660-0	S	8015-39	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,15	74	99,5	37cm, 2.1m
32,500-7431670-0	S	8015-40	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,19	83	100,0	35cm, 1.8m
32,500-7431680-0	S	8015-41	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	1,93	74	95,3	25cm, 1.5m
32,500-7431690-0	S	8015-42	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,37	83	100,0	29cm, 1.7m
32,500-7431700-0	S	8015-43	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,90	73	99,7	38cm, 1.7m
32,500-7431710-0	S	8015-44	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	1,98	83	100,0	46cm, 1.7m
32,500-7431720-0	S	8015-45	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,21	73	99,5	43cm, 1.7m
32,500-7431730-0	S	8015-46	1974	WHITEY		ONT	CAN	45.32	78.16	396	S	2,31	83	100,0	51cm, 2.0m
32,500-7431740-0	S	8026-1	1974	FORESTERS FAILS		ONT	CAN	45.41	76.48	1,37	S	2,55	77	98,0	41cm, 1.4m
32,500-7431750-0	S	8026-2	1974	FORESTERS FAILS		ONT	CAN	45.41	76.48	1,37	S	3,21	77	98,5	28cm, 1.1m
32,500-7431760-0	S	8026-3	1974	FORESTERS FAILS		ONT	CAN	45.41	76.48	1,37	S	2,35	77	94,5	66cm, 1.6m
32,500-7431770-0	S	8026-13	1974	BEACHBURG		ONT	CAN	45.41	76.51	1,52	S	2,32	75	99,0	27cm, 8m
32,500-7431B90-0	S	8026-14	1974	PET. FOR EXP. STATION		ONT	CAN	46.00	77.26	170	N/A	3,11	**		Exp. 194-0-1
32,500-7431910-0	S	8024-16	1974	PET. FOR EXP. STATION		ONT	CAN	45.59	77.27	182	S	3,70	77	87,5	29cm, 1.2m
32,500-7431930-0	S	8024-18	1974	PET. FOR EXP. STATION		ONT	CAN	45.59	77.27	182	S	2,13	77	100,0	56cm, 2.1m
32,500-7431950-0	S	8024-20	1974	PET. FOR EXP. STATION		ONT	CAN	45.58	77.25	160	S	1,94	77	95,0	51cm, 1.5m
32,500-7431960-0	S	8024-21	1974	PET. FOR EXP. STATION		ONT	CAN	45.58	77.25	160	S	2,34	77	93,0	56cm, 1.7m
32,500-7431970-0	S	8024-22	1974	PET. FOR EXP. STATION		ONT	CAN	45.58	77.25	160	S	1,90	77	97,0	46cm, 1.4m
32,500-7431980-0	S	8024-23	1974	PET. FOR EXP. STATION		ONT	CAN	45.58	77.25	160	S	2,22	83	93,0	36cm, 1.6m
32,500-7431990-0	S	8024-24	1974	PET. FOR EXP. STATION		ONT	CAN	45.58	77.25	160	S	2,59	77	93,5	35cm, 2.0m
32,500-7433830-0	S	2447	1974	PET. FOR EXP. STATION		ONT	CAN	46.00	77.26	170	N/A	3,53	84	24,0	
32,500-7433840-0	S	1974	1974	PET. FOR EXP. STATION		ONT	CAN	46.00	77.26	170	H/H	3,06	**		
32,500-7433850-0	S	1974	1974	PET. FOR EXP. STATION		ONT	CAN	46.00	77.26	170	H/H	2,56	**		
32,500-7434290-0	S	1974	1974	SWEATINA, BURT TWP.		ONT	CAN	48.01	80.20	300	S	2,13	83	82,0	
32,500-7434320-0	S	1974	1974	SWEATINA, SERVUS TWP.		ONT	CAN	48.14	80.43	713	N/A	2,59	83	87,0	
32,500-7434420-0	S	8049-2	1974	CLIFF TWP.		ONT	CAN	48.14	80.43	N/A		1,91	83	84,0	
32,500-7434460-0	S	8049-8	1974	CLIFF TWP.		ONT	CAN	49.10	81.14	289	N/A	3,32	83	99,0	
32,500-7434480-0	S	8050	1974	WHITE RIVER		ONT	CAN	46.00	77.27	810	N/A	3,08	93	91,0	
32,500-7434490-0	S	8017-2	1974	MCNEIL LAK		ONT	CAN	46.00	77.20	192	S	2,17	83	58,0	ST.1966 X 1965
32,500-7434560-0	S	8017-3	1974	MCNEIL LAK		ONT	CAN	45.35	79.52	225	S	1,94	82,0		
32,500-7434570-0	S	8239	1974	DORSET		Ont	CAN	45.35	79.52	225	S	2,35	83	84,0	ST.1966 X 1953
32,500-7435690-0	S	8239-3	1974	DORSET		Ont	CAN	45.16	78.58	335	S	2,83	83	69,0	ST.1966 X 1953
32,500-7435700-0	S	8239-4	1974	DORSET		Ont	CAN	45.16	78.58	335	S	2,35	83	95,0	ST.1966 X 1953
32,500-7435750-0	S	8031-2	1974	HATHORN Twp.		Ont	CAN	46.23	78.54	345	S	1,88	83	49,0	
32,500-7435840-0	S	8036-2	1974	ENGLISH HORN		Ont	CAN	47.52	79.55	245	S	2,79	83	44,0	
												2,59	83	75,5	

SEED LIST

SEED	RANK	NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	FL.FV		YEAR SEED	YEAR WITH	GERM	REMARKS
										(m)	TYPE				
32,500-7435850-0	S	F038-3	1974	ENGLEHART	OHT	CAN	47.52	79.51	215	S	2.43	83	73.0		
32,500-7435870-0	S	6038-4	1974	ENGLEHART	OHT	CAN	47.52	79.55	215	S	1.90	83	61.0		
32,500-7435890-0	S	E038-5	1974	ENGLEHART	OHT	CAN	47.52	79.51	215	S	2.02	83	71.0		
32,500-7435900-0	S	F038-6	1974	ENGLEHART	OHT	CAN	47.52	79.51	215	S	2.35	83	89.0		
32,500-7435910-0	S	E038-7	1974	ENGLEHART	OHT	CAN	47.52	79.51	215	S	2.59	83	69.0		
32,500-7435920-0	S	R235	1974	BENTON TP.	OHT	CAN	48.19	81.46	345	R	1.85	83	77.0		
32,500-7436010-0			1974	SOUTH RIVER	OHT	CAN	45.54	79.23	345	S	2.55	83	94.0		
32,500-7436060-0			1974	SOUTH RIVER	OHT	CAN	45.54	79.23	345	S	2.59	83	98.0		
32,500-7436070-0			1974	SOUTH RIVER	OHT	CAN	45.54	79.23	345	S	3.31	83	87.0		
32,500-7436210-0	S	8156-4	1974	SHAWNEEVILLE	OHT	CAN	45.54	79.23	345	S	2.34	83	53.0		
32,500-7436260-0	S	R6013-2	1974	POLAROID	OHT	CAN	45.03	76.35	245	S	3.72	83	79.0		
32,500-7436280-0	S	R6013-4	1974	POLAND	OHT	CAN	45.03	76.35	245	S	2.75	83	85.0		
32,500-7436290-0	S	R6013-5	1974	POLAND	OHT	CAN	45.03	76.35	245	S	2.24	83	91.0		
32,500-7436300-0	S	R6013-6	1974	POLAND	OHT	CAN	45.03	76.35	245	S	1.92	83	73.0		
32,500-7436330-0	S	R6019-3	1974	HARIBOROUGH TP.	OHT	CAN	45.02	75.50	90	S	3.82	83	73.0		
32,500-7436340-0	S	R6209-2	1974	HARIBOROUGH TP.	OHT	CAN	45.02	75.50	90	S	1.80	83	54.0		
32,500-7436360-0	S	R6209-4	1974	HARIBOROUGH TP.	OHT	CAN	45.02	75.50	90	S	2.25	83	71.0		
32,500-7436390-0	S	R611-1	1974	HARIBOROUGH TP.	OHT	CAN	45.02	75.50	90	S	2.67	83	57.0		
32,500-7436410-0	S	R611-3	1974	HARIBOROUGH TP.	OHT	CAN	45.02	75.50	90	S	2.67	83	73.0		
32,500-7436630-0	S	R604-9	1974	SUMSTICKA, BIRK TP.	OHT	CAN	48.02	80.22	300	S	2.29	83	77.0		
32,500-7436850-0	S	R604-6-2	1974	GIBBIEY TP.	OHT	CAN	49.30	82.15	245	S	2.24	83	77.0		
32,500-7436910-0	S	R6053-2	1974	FRASERDALE	OHT	CAN	49.50	81.31	245	S	3.8	83	44.0		
32,500-74477200-0	S	R142	1974	FOOTER LAKE	ALTA	CAN	52.55	145.30	460	R	2.32	83	86.0		
32,500-74666950-0	S	R316	1974	SILVER LAKE FOREST	ALTA	CAN	56.38	144.35	730	R	2.05	83	40.0		
32,500-7466960-0	S	R227	1974	CANYON LK,	BC	CAN	53.01	143.12	1200	R	1.89	83	39.0		
32,500-7477170-0	S	R228	1974	STRATHMORE	BC	CAN	53.16	122.12	1150	R	2.04	83	44.0		
32,500-7477180-0	S	R229	1974	UNITI CR.	BC	CAN	53.08	122.08	945	R	1.87	83	69.0		
32,500-74772200-0	S	R230	1974	WILLIAMS CR.	BC	CAN	49.17	118.54	621	R	2.18	83	61.0		
32,500-7477220-0	S	R232	1974	GREYWICK CR.,	BC	CAN	49.36	119.17	1585	R	1.76	83	50.0		
32,500-7531520-0	S	R062-2	1975	MONTOMIANGE, STRUHETI	OHT	CAN	48.43	85.52	335	S	3.41	83	100.0		
32,500-7531530-0	S	R067-3	1975	MONTOMIANGE, STRUHETI	OHT	CAN	48.43	85.52	335	S	2.39	83	100.0		
32,500-7531570-0	S	R067-7	1975	MONTOMIANGE, STRUHETI	OHT	CAN	48.43	85.52	335	S	2.66	83	94.5		
32,500-7531620-0	S	R066-2	1975	MONTOMIANGE	OHT	CAN	49.17	85.58	305	S	2.06	83	87.0		
32,500-7531630-0	S	R066-3	1975	MONTOMIANGE	OHT	CAN	49.17	85.58	305	S	3.40	83	97.0		
32,500-7531660-0	S	R066-8	1975	MONTOMIANGE	OHT	CAN	49.17	85.54	260	S	2.19	83	99.0		
32,500-7531810-0	S	R066-9	1975	CARAHAT	OHT	CAN	49.36	86.09	305	S	1.92	83	100.0	12-30m+40-100%	
32,500-7531820-0	S	R061-2	1975	CARAHAT	OHT	CAN	49.36	86.09	305	S	2.08	83	97.5		
32,500-7531830-0	S	R061-3	1975	CARAHAT	OHT	CAN	49.36	86.09	305	S	1.66	83	88.0		
32,500-7531840-0	S	R061-4	1975	CARAHAT	OHT	CAN	49.36	86.09	305	S	2.58	83	88.0		
32,500-7531850-0	S	R085-6	1975	CARAHAT	OHT	CAN	49.36	86.09	305	S	2.52	83	96.0		
32,500-7531860-0	S	R085-10	1975	CARAHAT	OHT	CAN	49.36	86.09	305	S	2.20	83	96.0		
32,500-7531870-0	S	R061-1	1975	CARAHAT	OHT	CAN	48.37	85.19	305	S	2.47	83	96.0		
32,500-7532030-0	S	R051-3	1975	HOBHIT	OHT	CAN	48.42	85.31	305	S	2.48	83	69.0		
32,500-7532060-0	S	R051-6	1975	HOBHIT	OHT	CAN	48.42	85.37	305	S	2.41	83	69.0		

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL.	PROVENANCE	LAT.	LONG.	ELEV. (m)	COLL. TYPF	SEED WEIGHT	YEAR	% REFL.	REMARKS
32,500-7532090.0	S-8051-9	1975	HOBERT	ONT CAN	48° 42'	86° 35'	305	S	2.52	*4		
32,500-7532110.0	S-8064-1	1975	TERRACE RAY	ONT CAN	48° 47'	87° 07'	200	S	2.30	B3	95.0	
32,500-7532120.0	S-8064-2	1975	TERRACE RAY	ONT CAN	48° 47'	87° 07'	200	S	2.38	B3	52.0	
32,500-7532150.0	S-8064-5	1975	TERRACE RAY	ONT CAN	48° 47'	87° 07'	200	S	2.23			
32,500-7532180.0	S-8064-8	1975	TERRACE RAY	ONT CAN	48° 47'	87° 07'	200	S	1.93	B3	100.0	
32,500-7532200.0	S-8064-10	1975	TERRACE RAY	ONT CAN	48° 47'	87° 07'	200	S	3.10	B3	91.0	
32,500-7532290.0	S-8081-9	1975	FALSE CREEK	ONT CAN	49° 52'	86° 52'	365	S	2.05	B3	90.0	
32,500-7532300.0	S-8081-10	1975	FALSE CREEK	ONT CAN	49° 52'	86° 52'	365	S	2.20	B3	100.0	
32,500-7532330.0	S-8062-3	1975	GREFR ROAD	ONT CAN	49° 56'	87° 07'	305	S	2.10	B3	100.0	
32,500-7532380.0	S-8062-8	1975	GREFR ROAD	ONT CAN	49° 56'	87° 07'	305	S	1.87	B3	97.0	
32,500-7532400.0	S-8062-10	1975	GREFR ROAD	ONT CAN	49° 56'	87° 07'	305	S	2.37	B3	99.0	
32,500-7532420.0	S-B0R2-2	1975	REARDMORE	ONT CAN	49° 35'	88° 00'	365	S	2.17	B3	100.0	
32,500-7532430.0	S-B0R2-3	1975	REARDMORE	ONT CAN	49° 35'	88° 00'	365	S	2.58	B3	95.0	
32,500-7532490.0	S-B0R2-9	1975	REARDMORE	ONT CAN	49° 33'	88° 00'	365	S	1.88	B3	100.0	
32,500-7532510.0	S-B060-1	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	R	1.60	B3	98.0	
32,500-7532520.0	S-B060-2	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	S	1.96	B3	98.0	
32,500-7532540.0	S-B060-4	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	S	1.80	B3	96.0	
32,500-7532550.0	S-B060-5	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	S	2.28	B3	98.0	
32,500-7532570.0	S-B060-7	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	S	1.97	B3	100.0	
32,500-7532590.0	S-B060-9	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	S	1.90	B3	94.0	
32,500-7532600.0	S-B060-10	1975	WAMEIG LAKE	ONT CAN	50° 09'	89° 07'	305	S	2.24	B3	98.0	
32,500-7532610.0	S-B0B3-3	1975	KENOGAMI RIVER	ONT CAN	49° 51'	86° 29'	305	S	1.94	B3	98.0	
32,500-7532630.0	S-B0B3-3	1975	KENOGAMI RIVER	ONT CAN	49° 51'	86° 29'	305	S	2.37	B3	100.0	
32,500-7532650.0	S-B0B3-5	1975	KENOGAMI RIVER	ONT CAN	49° 51'	86° 29'	305	S	1.83	B3	100.0	
32,500-7532670.0	S-B0B3-6	1975	KENOGAMI RIVER	ONT CAN	49° 55'	86° 29'	305	R	2.18			
32,500-7532670.0	S-B0B3-7	1975	KENOGAMI RIVER	ONT CAN	49° 53'	86° 29'	305	S	2.06			
32,500-7532680.0	S-B0B3-8	1975	KENOGAMI RIVER	ONT CAN	49° 55'	86° 29'	305	S	2.41	F3	97.0	
32,500-7532730.0	S-B063-3	1975	PIC RIVER	ONT CAN	49° 42'	86° 15'	240	S	2.86			
32,500-7532780.0	S-B063-8	1975	PIC RIVER	ONT CAN	48° 42'	86° 15'	240	S	1.88	B3	95.0	
32,500-7532820.0	S-B093-2	1975	MCKENZIE	ONT CAN	49° 33'	88° 58'	225	S	1.90			
32,500-7532860.0	S-B093-6	1975	MCKENZIE	ONT CAN	48° 33'	88° 58'	225	S	2.27	B3	85.5	
32,500-7532860.0	S-B069-R	1975	MCKENZIE	ONT CAN	49° 45'	89° 45'	425	S	2.02	F3	43.0	
32,500-7533160.0	S-B069-R	1975	TWIST LAKE	ONT CAN	49° 22'	89° 45'	425	S	2.19			
32,500-7533180.0	S-B069-R-1	1975	TWIST LAKE	ONT CAN	49° 22'	89° 45'	425	S	2.86			
32,500-7533400.0	S-B065-3	1975	O'SULLIVAN LAKE	ONT CAN	50° 32'	87° 01'	335	S	1.85	B3	75.0	
32,500-7533410.0	S-B065-4	1975	O'SULLIVAN LAKE	ONT CAN	50° 32'	87° 01'	335	S	1.95			
32,500-7533470.0	S-B076-1	1975	1.006 LAKE	ONT CAN	49° 13'	87° 04'	335	S	2.46	B3	75.0	
32,500-7533470.0	S-B076-4	1975	1.006 LAKE	ONT CAN	49° 13'	87° 04'	335	S	2.82	B3	60.0	
32,500-7533500.0	S-B076-5	1975	1.006 LAKE	ONT CAN	49° 13'	87° 04'	335	S	2.08	B3	45.0	
32,500-7533510.0	S-B076-5	1975	1.006 LAKE	ONT CAN	49° 26'	87° 34'	460	S	3.06	B3	90.0	
32,500-7533520.0	S-B240-8	1975	PARKS LAKE	ONT CAN	49° 26'	87° 34'	460	S	1.86	B3	83.0	
32,500-7533640.0	S-B047-R	1975	ARNOTT TP.	ONT CAN	48° 37'	88° 54'	410	S	2.64	B3	91.0	
32,500-7533750.0	S-B047-R	1975	ARNOTT TP.	ONT CAN	50° 02'	87° 39'	305	S	2.30	B3	85.0	
32,500-7533850.0	S-B075-J-10	1975	HAKIHA	ONT CAN	50° 02'	87° 39'	305	S	2.02	B3	60.0	
32,500-7533850.0	S-B075-J-10	1975	HAKIHA	ONT CAN	50° 02'	87° 39'	305	S	1.87	B3	74.0	
32,500-7533950.0	S-B240-8	1975	PARKS LAKE	ONT CAN	49° 46'	88° 54'	410	S	2.51	B3	86.0	
32,500-7534070.0	S-B084-9	1975	SHABIGUUS COHABKS	ONT CAN	48° 37'	88° 54'	410	S	2.10	B3	70.0	
32,500-7534130.0	S-B077-5	1975	S. O'HABIN RIVER	ONT CAN	50° 02'	87° 39'	305	S	2.50	B3	26.0	
32,500-7534160.0	S-B077-8	1975	S. O'HABIN RIVER	ONT CAN	50° 02'	87° 39'	305	S	2.30	B3	76.0	
32,500-7534180.0	S-B077-10	1975	S. O'HABIN RIVER	ONT CAN	50° 02'	87° 39'	305	S	2.02	B3	60.0	
32,500-7534190.0	S-B043-1	1975	PAGUA	ONT CAN	49° 46'	88° 54'	410	S	1.87	B3	74.0	

SEED TEST

SEED	RANK	NUMBER	NURSERY	YEAR	COLI	PROVENANCE	PROD	CTRY	LAT	LONG	ELEV		COLL.	TYPE	WEIGHT	TEST	YEAR	SEED	GERM	REMARKS
											(ft)									
32,500-7534210.0	5	8043-3	1975	PAGNA	OHT	CAN	49,46	85,25	245	S	2,49	83	91,0							
32,500-7534240.0	5	8043-6	1975	PAGNA	OHT	CAN	49,46	85,25	245	S	2,41	83	94,0							
32,500-7534260.0	5	8043-8	1975	PAGNA	OHT	CAN	49,46	85,25	245	S	2,39	83	85,0							
32,500-7534280.0	5	8043-10	1975	PAGNA	OHT	CAN	49,46	85,25	245	S	2,41	84	89,0							
32,500-7534290.0	5	8079-1	1975	JET LICHIE	OHT	CAN	49,42	87,25	365	S	2,41	83	89,0							
32,500-7534310.0	5	8079-3	1975	JET LICHIE	OHT	CAN	49,42	87,25	365	S	2,41	83	85,0							
32,500-7534350.0	5	8079-7	1975	JET LICHIE	OHT	CAN	49,42	87,25	365	S	2,26	83	87,0							
32,500-7534370.0	5	8079-9	1975	JET LICHIE	OHT	CAN	50,09	87,53	335	S	1,90	83	52,0							
32,500-7534450.0	5	F078-7	1975	AUBURN	OHT	CAN	48,13	89,24	305	R	2,16	83	71,0							
32,500-7534580.0	5	8090	1975	THUNDER RAY *	OHT	CAN	48,58	88,37	305	B	2,07	83	99,0							
32,500-7534590.0	5	8073	1975	THUNDER RAY HINCHASTER TP	OHT	CAN	49,42	89,45	425	R	1,81	83	98,0							
32,500-7534620.0	5	8072	1975	THUNDER RAY * MNG RTUER	OHT	CAN	49,23	89,45	425	R	1,69	83	93,0							
32,500-7534630.0	5	8092	1975	GRANOH	OHT	CAN	49,15	90,35	490	R	2,02	83	98,0							
32,500-7534640.0	5	8322	1975	THUNDER RAY	OHT	CAN	49,05	89,11	455	R	2,04	83	80,0							
32,500-7534650.0	5	8141	1975	ATHABASCA FOR.	AT,TB	CAN	57,08	111,38	225	R	2,39	77	76,5							
32,500-7614220.0	5	H204	1976	PINE NEEDLE	NS	CAN	45,29	63,58	150	N/A	2,39	77	61,0	* 1 OR 2 TREES						
32,500-7614240.0	5	8206	1976	ACGRATH'S RIN*	NS	CAN	45,72	62,21	150	N/A	2,39	77	61,0							
32,500-7630720.0	5		1976	FET, FOR, F&F, STATION	OHT	CAN	46,00	72,26	160	R	2,63	76	96,0							
32,500-7631010.0	5	8161-1	1976	ALICE	OHT	CAN	45,46	77,17	150	S	2,10	76	95,0							
32,500-7631020.0	5	8161-2	1976	ALICE	OHT	CAN	45,46	77,17	150	S	2,49	76	96,0							
32,500-7631030.0	5	8161-3	1976	ALICE	OHT	CAN	45,46	72,17	150	S	2,26	76	96,0							
32,500-7631070.0	5	8161-7	1976	ALICE	OHT	CAN	45,46	77,17	150	S	2,38	76	96,0							
32,500-7631090.0	5	8161-9	1976	ALICE	OHT	CAN	45,46	77,17	150	S	2,14	76	95,0							
32,500-7631110.0	5	8161-11	1976	ALICE	OHT	CAN	45,46	77,17	150	S	2,53	76	92,5							
32,500-7632000.0	5	8163-1	1976	LORRAINE TP.	OHT	CAN	47,15	79,31	240	S	3,30	76	97,0							
32,500-7632200.0	5	8163-3	1976	PECK TP.	OHT	CAN	45,29	78,45	460	S	2,57	76	86,5							
32,500-7632220.0	5	8165-3	1976	PECK TP.	OHT	CAN	45,29	78,45	460	S	2,65	76	80,0							
32,500-7632230.0	5	8165-4	1976	PECK TP.	OHT	CAN	45,29	78,45	460	S	2,28	76	99,5							
32,500-7632240.0	5	8165-5	1976	PECK TP.	OHT	CAN	45,29	78,45	460	S	3,27	76	80,0							
32,500-7632280.0	5	8165-9	1976	PECK TP.	OHT	CAN	45,29	78,45	460	S	2,49	76	93,5							
32,500-7632400.0	5	8167-1	1976	ASHOK TP.	OHT	CAN	45,37	79,25	300	S	2,09	76	94,5							
32,500-7632410.0	5	8167-2	1976	ASHOK TP.	OHT	CAN	45,37	79,25	300	S	2,85	76	92,5							
32,500-7632490.0	5	8167-10	1976	ASHOK TP.	OHT	CAN	45,37	79,25	300	S	2,06	76	90,5							
32,500-7632500.0	5	8168-2	1976	CHIMOLH TP.	OHT	CAN	46,08	79,16	225	S	3,62	76	100,0							
32,500-7632560.0	5	8168-7	1976	CHIMOLH TP.	OHT	CAN	46,08	79,16	275	S	2,65	77	95,5							
32,500-7632570.0	5	8168-R	1976	CHIMOLH TP.	OHT	CAN	46,08	79,16	275	S	3,17	77	75,0							
32,500-7632590.0	5	8168-10	1976	CHIMOLH TP.	OHT	CAN	46,08	79,16	275	S	2,96	77	91,5							
32,500-7632650.0	5	8157-6	1976	MITTAWON TP.	OHT	CAN	46,23	78,54	305	S	2,11	77	100,0							
32,500-7632680.0	5	8157-9	1976	MITTAWON TP.	OHT	CAN	46,23	78,54	305	S	2,06	77	98,5							
32,500-7632690.0	5	8157-10	1976	MITTAWON TP.	OHT	CAN	46,23	78,54	305	S	2,34	77	97,0							
32,500-7633050.0	5	8186-1	1976	BONFIELD TP.	OHT	CAN	46,14	79,08	245	S	2,49	77	98,0							
32,500-7633070.0	5	8186-3	1976	BONFIELD TP.	OHT	CAN	46,14	79,08	245	S	2,33	77	97,5							
32,500-7633080.0	5	8186-4	1976	BONFIELD TP.	OHT	CAN	46,14	79,08	245	S	1,82	77	98,0							
32,500-7633140.0	5	8186-10	1976	BONFIELD TP.	OHT	CAN	46,14	79,08	245	S	2,79	77	99,0							
32,500-7633160.0	5	8187-2	1976	BONFIELD TP.	OHT	CAN	48,29	80,25	290	S	2,06	77	97,0							
32,500-7633170.0	5	8187-3	1976	BONFIELD TP.	OHT	CAN	48,29	80,25	290	S	2,54	77	95,0							
32,500-7633180.0	5	8187-4	1976	BONFIELD TP.	OHT	CAN	48,29	80,25	290	S	2,46	77	99,0							
32,500-7633210.0	5	8187-7	1976	BONFIELD TP.	OHT	CAN	48,29	80,25	290	S	2,32	77	85,0							
32,500-7633220.0	5	8187-R	1976	BONFIELD TP.	OHT	CAN	48,29	80,25	290	S	2,16	77	98,5							

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV. (m)	GNDL TYPE	SEED	WEIGHT (g)	YEAR %	STH GERM	REMARKS
32,500-7633570,0	1976 SILVER LAKE	ONT CAN	44° 49'	76° 41'	180	S	2,68	77	87.0	4.6cm, 11m, 25-30y				
32,500-7633570,0	1976 SILVER LAKE	ONT CAN	44° 49'	76° 41'	180	S	3,17	77	96.5	20cm, 6m, 1R				
32,500-7633570,0	1976 FORESTER FALLS	ONT CAN	45° 41'	76° 48'	140	S	2,05	77	98.0	39cm, 12m, 50y				
32,500-7633570,0	1976 FORESTER FALLS	ONT CAN	45° 41'	76° 48'	140	S	2,14	77	99.5	4.3cm, 12m, 45y				
32,500-7633570,0	1976 FORESTER FALLS	ONT CAN	45° 41'	76° 48'	140	S	2,06	77	99.5	4.4cm, 15m, 45y				
32,500-7633570,0	1976 FORESTER FALLS	ONT CAN	45° 41'	76° 48'	140	S	1,88	77	99.0	25cm, 10m, 27y				
32,500-7633570,0	1976 FORESTER FALLS	ONT CAN	45° 42'	76° 49'	150	S	3,10	78	84.5	4.8cm, 15m, 60y				
32,500-7633570,0	1976 FORESTER FALLS	ONT CAN	45° 42'	76° 49'	150	S	2,90	77	99.0	4.8cm, 15m, 60y				
32,500-7633440,0	1976 CHILK RIVER, OFCL	ONT CAN	46° 01'	77° 26'	145	S	1,94	77	98.5	51+1065				
32,500-7633440,0	1976 PET. FOR. EXP. STATION	ONT CAN	46° 00'	77° 27'	120	S	2,61	77	95.0					
32,500-7655070,0	1976 SIANOK CH.	SASK CAN	53° 40'	102° 47'	272	R	2,33	78	75.0					
32,500-7655110,0	1976 CHILK R. LK.	SASK CAN	53° 46'	107° 50'	567	R	2,15	76	46.2					
32,500-7655110,0	1976 CHILK R. LK.	SASK CAN	53° 46'	107° 50'	567	R	2,57	78	74.2					
32,500-7655110,0	1976 CHILK R. LK.	SASK CAN	53° 46'	107° 50'	567	R	2,61	78	60.0					
32,500-7655140,0	1976 FWEI R.	SASK CAN	52° 30'	102° 55'	509	R	2,08	78	39.0					
32,500-7655160,0	1976 CANNIE LK.	SASK CAN	53° 45'	105° 12'	494	R	2,08	78	39.0					
32,500-7655170,0	1976 BORE LK.	SASK CAN	54° 42'	107° 16'	485	R	2,08	78	39.0					
32,500-7665200,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,79	77	93.0	A,F,S,* 0.33%				
32,500-7665210,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,24	77	94.4	A,F,S,* 0.33%				
32,500-7665220,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,08	77	97.0	A,F,S,* 0.33%				
32,500-7665230,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	3,01	77	89.5	A,F,S,* 0.33%				
32,500-7665240,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,62	77	62.0	A,F,S,* 0.33%				
32,500-7665250,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,97	77	62.0	A,F,S,* 0.340				
32,500-7665260,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,08	77	96.0	A,F,S,* 0.340				
32,500-7665270,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,97	77	89.3	A,F,S,* 0.342				
32,500-7665280,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,04	77	77.0	A,F,S,* 0.343				
32,500-7665290,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,60	77	97.3	A,F,S,* 0.344				
32,500-7665300,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,40	77	95.7	A,F,S,* 0.345				
32,500-7665310,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,72	77	92.9	A,F,S,* 0.346				
32,500-7665320,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,86	77	65.0	A,F,S,* 0.359				
32,500-7665330,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,03	77	80.0	A,F,S,* 0.360				
32,500-7665340,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,65	77	74.0	A,F,S,* 0.361				
32,500-7665350,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,42	77	74.6	A,F,S,* 0.362				
32,500-7665360,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,01	77	90.5	A,F,S,* 0.363				
32,500-7665370,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,23	77	92.0	A,F,S,* 0.364				
32,500-7665380,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,11	77	89.5	A,F,S,* 0.365				
32,500-766539,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,45	77	74.0	A,F,S,* 0.366				
32,500-766540,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,13	77	97.6	A,F,S,* 0.367				
32,500-766541,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,97	77	77.0	A,F,S,* 0.348				
32,500-766542,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,65	77	85.0	A,F,S,* 0.349				
32,500-766543,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,19	77	91.0	A,F,S,* 0.351				
32,500-766544,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,05	77	74.0	A,F,S,* 0.352				
32,500-766545,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,43	77	90.8	A,F,S,* 0.354				
32,500-766546,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,13	77	66.0	A,F,S,* 0.355				
32,500-766547,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	1,47	77	92.0	A,F,S,* 0.356				
32,500-766548,0	1976 PEACE RIVER FOREST	ALTA CAN	57° 18'	114° 32'	349	R	2,48	77	95.9	A,F,S,* 0.357				

SEED TEST

SEED BANK NUMBER	NURSERY COL.	YEAR	PROVENANCE	PROV.	CTRY	LAT.	LONG.	FLFL FOLI.		FLFL FOLI.		TYPE	WEIGHT	STND	GERM	REMARKS
								SEED	SEED	SEED	SEED					
32,500-7655500.0		1976	PEACE RIVER FOREST	ALTA	CAN	57°18'	114°37'	549	S	2,12	77	66.7				
32,500-7730440.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°59'	77°25'	170	S	2,08	83	100.0				
32,500-7730450.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°59'	77°25'	160	S	2,49	78	99.5				
32,500-7730450.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°59'	77°25'	160	R	2,08	83	95.0				
32,500-7730470.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°58'	77°25'	160	S	2,58	83	88.0				
32,500-7730480.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°59'	77°25'	160	S	2,00	83	92.0				
32,500-7730490.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°59'	77°25'	160	S	2,41	83	88.0				
32,500-7730500.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	45°59'	77°25'	170	S	1,71	83	94.0				
32,500-7730510.0		1977	PEI, FOR, EXP, STATION	ONT	CAN	46°00'	77°26'	170	R	2,30	83	90.0				
32,500-7730520.0	S 8701-7	1977	DAWSON TP.	ONT	CAN	46°51'	83°58'	300	S	2,21	83	100.0				
32,500-7730560.0	S 8705-6	1977	PROCTOR TP.	ONT	CAN	46°20'	82°30'	250	S	1,69	83	98.0				
32,500-7731060.0	S 8706-9	1977	TP., 135	ONT	CAN	46°28'	82°34'	365	S	2,01	83	97.0				
32,500-7731100.0	S 8707-3	1977	ENTON TP.	ONT	CAN	46°27'	81°22'	275	S	2,15	83	99.0				
32,500-7731120.0	S 8707-5	1977	ENTON TP.	ONT	CAN	46°27'	81°22'	275	S	1,98	78	99.0				
32,500-7731140.0	S 8707-7	1977	ENTON TP.	ONT	CAN	46°27'	81°22'	275	S	2,00	83	92.0				
32,500-7731150.0	S 8707-8	1977	ENTON TP.	ONT	CAN	46°27'	81°22'	275	S	1,96	78	100.0				
32,500-7731240.0	S 8721-12	1972	HAIRY TP.	ONT	CAN	46°19'	81°39'	215	S	2,13	83	99.0				
32,500-7731310.0	S 8721-17	1977	HAIRY TP.	ONT	CAN	46°19'	81°39'	215	S	2,23	78	99.5				
32,500-7731600.0	S 8721-2	1977	DOHL TP.	ONT	CAN	48°18'	85°00'	425	S	1,86	83	82.0				
32,500-7731620.0	S 8710-4	1977	FISH TP.	ONT	CAN	48°18'	85°00'	425	S	2,51	83	87.0				
32,500-7731730.0	S 8737-3	1978	THORPE TP.	ONT	CAN	45°46'	76°28'	210	S	2,28	83	99.0				
32,500-7820740.0	S 8737-4	1978	THORPE TP.	ONT	CAN	45°48'	76°28'	210	S	2,28	83	95.0				
32,500-7820750.0	S 8737-5	1978	THORPE TP.	ONT	CAN	45°48'	76°28'	210	S	2,98	83	98.0				
32,500-7820760.0	S 8737-6	1978	THORPE TP.	ONT	CAN	45°48'	76°28'	210	S	2,36	83	99.0				
32,500-7731620.0	S 8737-9	1978	THORPE TP.	ONT	CAN	45°48'	76°28'	210	S	2,94	83	99.0				
32,500-7820790.0	S 8737-9	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	P	2,28	83	100.0				
32,500-7820890.0	S 8737-2	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,33	83	100.0				
32,500-7820900.0	S 8737-2	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,33	83	100.0				
32,500-7820910.0	S 8737-2-3	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,87	83	100.0				
32,500-7820920.0	S 8737-2-4	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,31	83	100.0				
32,500-7820930.0	S 8737-2-5	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,63	83	100.0				
32,500-7820940.0	S 8737-2-6	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,68	83	100.0				
32,500-7820950.0	S 8737-2-7	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	3,52	83	100.0				
32,500-7820960.0	S 8737-2-8	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,68	83	100.0				
32,500-7820970.0	S 8737-2-9	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	2,68	83	100.0				
32,500-7820980.0	S 8737-2-10	1978	OTTER LAK.	ONT	CAN	45°51'	76°26'	200	S	3,01	83	100.0				
32,500-7830810.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	46°00'	77°26'	160	S	2,29	83	100.0						
32,500-7830820.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	46°00'	77°26'	160	S	2,61	83	97.0						
32,500-7830830.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	45°57'	77°25'	160	S	2,60	80	98.5	ST, 2023					
32,500-7830840.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	45°57'	77°25'	160	S	2,07	80	94.8	ST, 2017					
32,500-7831460.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	45°57'	77°24'	160	S	2,13	80	97.0						
32,500-7831470.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	45°57'	77°24'	160	S	2,30	80	96.0						
32,500-7831570.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	45°57'	77°24'	160	S	2,67	80	95.5	ST, 1863					
32,500-7831580.0	1978 PEI, FOR, EXP, STATION	ONT	CAN	45°57'	77°25'	160	S	2,02	80	96.3	ST, 2019					
32,500-7933030.0	S 8772-1	1979	SOUTH NATION RIVER	ONT	CAN	45°33'	75°03'	61	S	2,95	88					
32,500-7933060.0	S 8772-4	1979	SOUTH NATION RIVER	ONT	CAN	45°33'	75°03'	61	S	2,76	83	51.0				
32,500-7933070.0	S 8772-5	1979	SOUTH NATION RIVER	ONT	CAN	45°34'	75°03'	61	N/A	2,60	83					
32,500-7933080.0	S 8772-6	1979	SOUTH NATION RIVER	ONT	CAN	45°33'	75°03'	61	N/A	2,75	83	75.0				
32,500-8234400.0	1982 PINE GRAFT ARB, PH-1	ONT	CAN	45°57'	77°28'	200	S	2,13	83	97.8						
32,500-8234410.0	1982 PINE GRAFT ARB, PH-1	ONT	CAN	45°57'	77°28'	200	S	1,89	83	92.0						

SEED LIST

SEED RANK NUMBER	NURSERY NUMBER	YEAR	CULT.	PROVENANCE	PROV.	CTRY	LAT.	LONG.	ELEV.		SEED WEIGHT (kg)	1000 STU.	YEAR	REF.
									TYPE	FEET				
32,500-B234420,0	1982 PINE GRAFT ARB., PBFT	1982	PINE GRAFT ARB., PBFT	ONT	CAN	45.5/	77.2R	200	S	2,05	R3	98.3	45cm, 1.6m, 55m	
32,500-B234430,0	1982 PINE GRAFT ARB., PBFT	1982	PINE GRAFT ARB., PBFT	ONT	CAN	45.5/	77.2R	200	S	2,22	R3	97.0	25cm, 1.4m, 35m	
32,500-B234440,0	1982 PINE GRAFT ARB., PBFT	1982	PINE GRAFT ARB., PBFT	ONT	CAN	45.5/	77.2R	200	S	2,78	R3	93.2	52cm, 70m	
32,500-B234450,0	1982 PINE GRAFT ARB., PBFT	1982	PINE GRAFT ARB., PBFT	ONT	CAN	45.5/	77.2R	200	S	2,36	R3	97.0	35cm, 1.6m, 75m	
32,500-B234460,0	1982 PFT, NAT. FOR. INSTIT.	1982	PFT, NAT. FOR. INSTIT.	ONT	CAN	45.5/	77.2R	200	S	2,30	R3	99.7	18-20m, 50-70m	
32,500-B234470,0	1982 PFT, NAT. FOR. INSTIT.	1982	PFT, NAT. FOR. INSTIT.	ONT	CAN	45.5/	77.2R	200	S	2,18	R3	99.2		
32,500-B234480,0	1982 PFT, NAT. FOR. INSTIT.	1982	PFT, NAT. FOR. INSTIT.	ONT	CAN	45.5/	77.2R	200	S	2,35	R3	99.3		
32,500-B234490,0	1982 PFT, NAT. FOR. INSTIT.	1982	PFT, NAT. FOR. INSTIT.	ONT	CAN	45.5/	77.2R	200	S	2,06	R3	99.5		
32,500-B234500,0	1982 PFT, NAT. FOR. INSTIT.	1982	PFT, NAT. FOR. INSTIT.	ONT	CAN	45.5/	77.2R	200	S	2,30	R3	99.5		
32,500-B234510,0	1982 WASHINGTON COUNTY	1982	WASHINGTON COUNTY	PE	USA	44.45	67.45	6		3,53	R3	60.0	REF ID: FKO1 h, HOF	
(32,600) PICEA GLUMLI (Sakhalin)														
32,600-6981720,0	1969 HOKKAIDO PREFECTURE	1969	HOKKAIDO PREFECTURE	JP-N	JPN	43.25	144.06E	615	B	3,36	R3	25.5		
(32,800) PICEA KOREANA (Korean Spruce)														
32,800-7484350,0	1974 NGANDO PREFECTURE	1974	NGANDO PREFECTURE	JP-N	JPN	35.50	139.13E	1660	B	4,65	R3	52.5	39cm, 21m, 87m	
(32,850) PICEA LUCHANGENSIS (Liaotung Spruce)														
32,850-8283330,0	1962 YUNNAN PROVINCE	1962	YUNNAN PROVINCE	CHN	CN	25.00	100.0F			N/A	R3	75.7		
(32,900) PICEA MORTLAND (Black Spruce)														
32,900-5210560,0	1952 BEARY	1952	BEARY	BB	CAN	45.42	66.31	20	B	1,31	R3	29.9		
32,900-5210590,0	1952 FARNINGTON	1952	FARNINGTON	PTI	CAN	46.23	62.29	20	B	1,20	R3	75.0		
32,900-5310520,0	1953 PRITCH MULLEN STATION	1953	PRITCH MULLEN STATION	BB	CAN	45.45	67.05	150	B	1,62	R3	33.5		
32,900-5310540,0	1953 ACADIA FOR. EXP. STA.	1953	ACADIA FOR. EXP. STA.	BB	CAN	45.59	66.14	45	B	1,39	R3	56.5		
32,900-5410550,0	1953 CHIGNECTO FOREST SANCTUARY	1953	CHIGNECTO FOREST SANCTUARY	BB	CAN	45.30	64.28	45	B	1,55	R3	62.5		
32,900-5910520,0	1959 BIG HOLE BROWN	1959	BIG HOLE BROWN	BB	CAN	46.35	66.15	120	B	1,67	R3	34.5		
32,900-6030270,0	1960 PFT, FOR. EXP. STATION	1960	PFT, FOR. EXP. STATION	ONT	CAN	45.93	77.29	200	B	1,95	R3	61.0		
32,900-6430210,0	1966 ONTARIO SITE REGION 4F	1966	ONTARIO SITE REGION 4F	ONT	CAN	47.00	80.00		B	1,06	R3	100.0	LARGE 200F	
32,900-6430220,0	1966 ONTARIO SITE REGION 3E	1966	ONTARIO SITE REGION 3E	ONT	CAN	50.00	80.00		B	1,02	R3	100E	LARGE 200E	
32,900-6430230,0	1966 ONTARIO SITE REGION 3M	1966	ONTARIO SITE REGION 3M	ONT	CAN	50.00	90.00		B	1,97	R3	99.5	LARGE 200H	
32,900-6430240,0	1966 ONTARIO SITE REGION 4W	1966	ONTARIO SITE REGION 4W	ONT	CAN	49.00	90.00		B	1,04	R3	96.5	LARGE 200F	
32,900-6430250,0	1966 ONTARIO SITE REGION 5S	1966	ONTARIO SITE REGION 5S	ONT	CAN	50.00	94.00		B	1,99	R3	99.5	LARGE 200E	
32,900-6430260,0	1967 RDO 1 ANE	1967	RDO 1 ANE	ONT	CAN	45.50	77.30		B	1,07	R3	98.5	LARGE 200E	
32,900-6480270,0	1964 ITASCA COUNTY	1964	ITASCA COUNTY	MIN	USA	47.22	93.35	610	B	1,25	R3	74.0		
32,900-6561040,0	1965 WHITECOURT	1965	WHITECOURT	ALTA	CAN	54.45	115.45	760	B	1,32	R3	44.5		
32,900-6730630,0	1967 PFT, FOR. EXP. STATION	1967	PFT, FOR. EXP. STATION	ONT	CAN	45.59	77.26	175	B	1,30	R3	96.0		
32,900-6730640,0	1967 RANGER LAKE	1967	RANGER LAKE	ONT	CAN	54.52	93.39	350	B	1,94	R3	99.5		
32,900-6732320,0	1967 FORESTIE MOUNTAIN	1967	FORESTIE MOUNTAIN	SASK	CAN	46.46	63.26	365	B	1,97	R3	80.0		
32,900-6751610,0	1970 ALGONQUIN PARK	1970	ALGONQUIN PARK	ONT	CAN	52.30	101.43	600	B	1,04	R3	84.5		
32,900-7031490,0	1970 ALGONQUIN PARK	1970	ALGONQUIN PARK	ONT	CAN	45.50	77.30	230	B	1,31	R3	89.0		
32,900-7031500,0	1970 FAUCET 1 LAKE	1970	FAUCET 1 LAKE	ALTA	CAN	55.20	103.55	640	B	1,35	R3	97.7	12-15m, 50-60m	
32,900-7061100,0	1974 PFT, FOR. EXP. STATION	1974	PFT, FOR. EXP. STATION	ONT	CAN	45.59	77.26	125	S	1,74	R3	99.0	18cm, 1.6m	
32,900-7433140,0	1974 PFT, FOR. EXP. STATION	1974	PFT, FOR. EXP. STATION	ONT	CAN	45.59	77.26	175	S	1,03	R3	99.0		

REF ID LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	FLFLW	FLFLW	SEED	SEED	YEAR	%	REMARKS
								(m)	TYPE	WEIGHT	TEST	TEST	GERH		
32,900-7433160,0	1974 PFT, FOR, EXP, STATION	1974	DAN	45°59'	77°26'	S			N/A	1.14	8%				
32,900-7433170,0	1974 PFT, FOR, EXP, STATION	1974	DAN	45°59'	77°26'	S			N/A	1.01	8%				25cm, 22m
32,900-7433180,0	1974 PFT, FOR, EXP, STATION	1974	DAN	45°59'	77°26'	S			N/A	1.14	8%				
32,900-7433210,0	1974 PFT, FOR, EXP, STATION	1974	DAN	45°59'	77°26'	S			N/A	1.26	8%				
32,900-8130010,0	1981 SITE REGION 34	1981	DAN	45°58'	77°25'	S			N/A	1.26	8%				
32,900-8130040,0	1982 HEART	1982	DAN	45°49'	83°40'	N/A			N/A	1.00	0				
32,900-8283280,0	1983 AURUM	1983	PEI	46°17'	62°51'	N/A			N/A	0.94	83	90,0			
32,900-8310644,0	1983 CARRIERS	1983	PEI	46°16'	62°38'	N/A			N/A	0.94	83	90,0			
32,900-8310645,0	1983 HARMONY ROAD	1983	PEI	46°32'	62°01'	N/A			N/A	0.94	83	90,0			
32,900-8310646,0	(32,950) PICEA HYBRIDI								N/A	0.94	83	90,0			
32,950-7886020,0	1978 SHANXI	1978	CHN	38°50'	112°10E	2000	N/A		N/A	6.45	R4	69,0			
33,100) PICEA OBONIWA (Silverleaf spruce)															
33,100-77B9410,0	1977 KASHMIR, ACSR	1977	SIN	66°00'	124°00E	N			N	6.12	R3	21,5			
(33,200) PICEA OBONIWA (Silverleaf spruce)															
33,200-74B5390,0	1974 WEST GERMANY	1974	DEU			N/A			N/A	3.53	R3	58,7			
(33,250) PICEA ORIFOLIA (oriental spruce)															
33,250-0QB0003,0	1983 TURKEY	1983	TUR			N/A			N/A	7.01	R4	78,5	VIA AIRSHIP		
(33,350) PICEA PUNGENS var. GLAUCA (Colorado blue spruce)															
33,350-69B1810,0	1969 VIA SCHÜNBACHER	1969	USA			N/A			N/A	4.39	R4	88,0			
33,350-69B1820,0	1966 VIA SCHÜNBACHER	1966	USA			N/A			N/A	5.05	R3	60,5			
33,350-74B5400,0	1974 STATE OF COLORADO	1974	COLD USA			B			N/A	4.46	R4	67,0	SUPERIOR XMAS TREE		
33,350-R7B5450,0	1982 CLEAR GREEK, SANTA FE	1982	NN	056	35°30'	106°00'	N/A								
(33,380) PICEA PURPUREA															
33,380-7BB6960,0	1978 LI-HSIEN, SZYUZHAN PROV	1978	CHN	31°40'	102°48E	3700	R		N/A	3.67	R4	80,0			
(33,400) PICEA RUBENS (red spruce)															
33,400-0020620,0	1956 WINDSOR HILLS	1956	QUE	46°24'	66°59'	N/A			N/A	2.98	R4	62,0			
33,400-5210500,0	1952 MAPADOGAN	1952	NB	46°24'	66°59'	R			N/A	3.48	R4	20,0			
33,400-5210520,0	1952 SCOTTS BAY	1952	NB	45°10'	64°24'	R			N/A	2.83	R4	27,0			
33,400-5210530,0	1952 COBERRIE	1952	NB	46°13'	65°57'	R			N/A	2.77	R4	16,0			
33,400-5310500,0	1953 HEPFER FLAGNOVILLE	1953	NB	46°39'	65°51'	30	R		N/A	2.32	R4	74,0			
33,400-5310510,0	1953 BOYNE ROAD	1953	NB	45°34'	66°31'	B			N/A	2.43	R3	95,5			
33,400-5620010,0	1956 LAKÉ EDWARD	1956	QUE	46°45'	72°55'	300	B		N/A	2.58	R3	85,0			
33,400-5620020,0	1956 LAKE EDMUND	1956	QUE	46°45'	72°55'	300	R		N/A	2.45	R3	90,0			
33,400-5620030,0	1956 VILFÄRTTER FOR EXP STA	1956	QUE	46°57'	71°32'	215	N/A		N/A	2.41	R4	72,5			

SEEN TEST

NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV	CTRY	LAT.	LONG.	ELFU (m)	COLL. (m)	TYPE	SEED TESTH	YEAR GERM.	1000 WEIGHT	REMARKS
33,400-5910500,0	1959	RENDS-PLASTER ROCK HLY.	NR	CAN	46.45	66.00	R	2.98	R	49.0			
33,400-6010200,0	1960	TIMBER LAKE	NS	CAN	44.42	64.10	R	3.26	R	71.5			
33,400-6110200,0	1961	PROSSER BROOK	NB	CAN	45.45	65.00	R	3.68	R	40.6			
33,400-6210210,0	1962	ACADIA FOR. EXP. STA.	NB	CAN	46.00	66.25	N/A	2.40	R	52.8			
33,400-6210220,0	1962	ACADIA FOR. EXP. STA.	NB	CAN	46.02	66.14	N/A	1.74	R	35.9			
33,400-6230240,0	1962	HUDSON PLATE, P.F.F.S.	ONT	CAN	46.00	77.25	N/A	3.65	R	100.0			
33,400-6310250,0	1963	MILLSTRAW LAKE	NB	CAN	47.41	66.05	22%	R	1.49	74	94.7		
33,400-6380260,0	1963	ESSEX & CLINTON COUNTY	NY	USU	46.30	73.30	R	4.00	R	83	56.1		
33,400-6410200,0	1964	GREEN RIVER	NB	CAN	47.36	68.17	R	2.61	R	97.0			
33,400-7023050,0	1970	FOSSENWOLD	QUE	CAN	46.52	75.37	B	3.86	R	64.0			
33,400-82B4660,0	1982	PITTSTON FARM	PE	USU	45.45	69.45	N/A	3.08	R	53.0	REC'D FROM K. HALE		
(33,450) PICEA SCHNEIDERIANA (Schneid.) (var. spicata)													
33,450-74B7300,0	1974	PRZYBYLA SK.			50.0	42.20	70.10E	2000	R	R, 4H	R	77.4	
(33,500) PICEA SITCHENIS (Sibir.) (spicata)													
33,500-66BB0040,0	1966	PACTETTE LD.		WASH USA	47.00	124.00	R	2.61	R	48.5			
33,500-68BB1020,0	1968	FORKS		WASH USA	48.04	124.18	140	5	2.39	77	50.0	76cm, 24m	
33,500-68BB1030,0	1968	HOUTJAH		WASH USA	47.05	124.03	A	5	2.28	77	61.5	61cm, 21m	
33,500-68BB1040,0	1968	NEGANTHIE		OR USA	45.49	123.46	50	5	2.15	77	102cm, 37m		
33,500-68BB1140,0	1968	BRODICTUGS		OR USA	42.15	124.23	90	5	2.11	63	67.5	46cm, 17m	
33,500-68BB1140,0	1970	MEDENE RIVER		BC CAN	56.08	128.37	170	B	2.32	83	97.5	39-51m, 150-250m	
33,500-7073080,0	1970	USK FERRY		BC CAN	54.38	128.24	140	R(23)	2.42	78	64.0	72-50m, 80-150m	
33,500-7073960,0	1970	TRUHLÍČEKES		RC CAN	54.12	130.45	30	R(20)	2.42	76	84.5	74-43m, 60-200m	
33,500-7073870,0	1970	LIND ROAD		BC CAN	53.30	132.10	90	R	2.40	83	64.9	37-56m, 200+4	
33,500-7073880,0	1970	SALMON RAY		BC CAN	50.23	125.57	R	2.34	78	93.5	1.4-3.3m, 60-120+		
33,500-7073900,0	1970	BIG QUALICUM RIVER		BC CAN	49.23	124.37	R	2.44	R	96.5	1.9-39m, 40-80+		
33,500-7073960,0	1970	KITMONGA		BC CAN	55.10	127.52	670	R(16)	1.99	63	80.0	22-31m, 80-120+	
33,500-7073970,0	1970	HOTICK, CHUKWALIA RIVERS		BC CAN	51.56	126.50	400	R(17)	2.15	83	41.0	27-91m, 80-400+	
33,500-7073980,0	1970	HOLBERG		BC CAN	50.36	128.06	320	R	2.14	KK			
33,500-7073990,0	1970	DERRICK LAKE		BC CAN	53.41	128.41	240	R(20)	1.69	R	95.5	29-46m, 150-200+	
33,500-7074000,0	1970	GRANBERRY RIVER		BC CAN	55.28	128.14	520	R(16)	1.25	R	92.0	1.9-41m, 100-200+	
33,500-7074010,0	1970	FILIBAR CREEK		BC CAN	55.09	128.58	400	R(16)	2.29	R	94.0	3.7-4.6m, 150+	
33,500-7074020,0	1970	CEDARVALLE		BC CAN	55.01	128.19	240	R(16)	2.22	R	93.0	1.8-37m, 100-200+	
33,500-7074030,0	1970	PACIFIC		BC CAN	54.46	128.15	130	S	2.13	R	77.2	6.5cm, 46m, 170+	
33,500-7074040,0	1970	DUCK CREEK		ALAS USA	56.22	134.35	30	R(20)	2.65	R	54.3	24-37m, 100+	
33,500-7074050,0	1970	WIRD LAKE		ALAS USA	55.25	131.42	15	R	2.56	77	80.5	18-64m, 50-250+	
33,500-72272010,0	1972	CHARLOTTE ISLAND		BC CAN	54.04	131.50	150	R	2.88	R	51.7		
33,500-72272250,0	1972	QUEEN #2 VANCOUVER IS.		BC CAN	48.22	123.44	10	R	2.10	R	94.0		
33,500-72B7290,0	1972	961 DEZ		ALAS USA	63.17	146.16	90	R(5)	1.20	R	33.2	76-107cm, 30-46m	
33,500-72B7290,0	1975	PARKSVILLE		BC CAN	49.10	124.30	75	R	2.57	R	72.5		
33,500-7575380,0	1983	KINNIS CREEK		BC CAN	53.42	137.09	10	R(3)	2.29	R	95.0	30-50m, 100+	
(33,700) PICEA MITSCH													
33,700-7686940,0	1978	LI-HSIEN, SZE-THUEN PRTV		CHN	31.40	107.4RF	3000	R/4	5.09	R	92.0		
(34,200) PINUS BANKSIANA (Jack Pine)													
34,200-5130010,0	1951	RARRY'S BAY		CHN	45.29	77.41						37.70	83.31.0

SEED LIST

SEED BANK NUMBER	YEAR	NURSERY	CNTL.	FREQUENCY	PROV	CTRY	LAT	LONG	EL. ELEV.	GHTL.	TYPE	WEIGHT	TESTD.	SEED	YEAR	Z.	REMARKS
34+200-5130020.0	5 1566-51	1951	PFT.	FOR, EXP.	STATION	ONT	45°58'	77°24'	160	R	3.73	.83	46.0				
34+200-5B30260.0		1958	LAKE TRAVERSE	ALGON., PK	ONT	CAN	45°57'	78°03'	M/H		3.90	B3	95.0				
34+200-66331610.0		1966	PFT.	FOR, EXP.	STATION	ONT	45°57'	77°23'	160	RC3)	3.78	B3	BB.5				
34+200-6730610.0		1967	PFT.	FOR, EXP.	STATION	ONT	45°55'	77°35'	170	R	3.26	75	82.5				
34+200-6730940.0		1967	DEEP RIVER		ONT	CAN	46°06'	77°30'	S		3.88	75	76.0				
34+200-6730950.0		1967	DEEP RIVER		ONT	CAN	46°06'	77°30'	S		3.15	75	92.0				
34+200-6730960.0		1967	DEEP RIVER		ONT	CAN	46°06'	77°30'	S		3.00	82	88.0				
34+200-6730970.0		1967	DEEP RIVER		ONT	CAN	46°06'	77°30'	S		75	B2.5					
34+200-6830080.0		1967	DEEP RIVER		ONT	CAN	46°06'	77°30'	S		2.64	75	B3.0				
34+200-6730990.0		1967	DEEP RIVER		ONT	CAN	46°06'	77°30'	S		2.70	B3	72.0				
34+200-6731720.0		1967	PET.	FOR, EXP.	STATION	ONT	45°57'	77°24'	170	R	3.30	75	85.0				
34+200-6B30070.0		1968	SIOUX LOOKOUT		ONT	CAN	50°09'	91°48'	380	R	3.24	75	15-18m, 70-80+				
34+200-6B30070.1		1968	SIOUX LOOKOUT		ONT	CAN	50°09'	91°48'	380	B	3.33	75	B2.0	15-18m, 70-80+			
34+200-6B30080.0		1968	PFT.	FOR, EXP.	STATION	ONT	45°59'	77°18'	145	B400	3.25	B2	95.5	17-21m, 50-60+			
34+200-6B30080.1		1968	PFT.	FOR, EXP.	STATION	ONT	45°59'	77°18'	145	B400	3.25	B2	93.4	17-21m, 50-60+			
34+200-6B30090.0		1968	PFT.	FOR, EXP.	STATION	ONT	45°59'	77°18'	145	B400	3.40	B3	96.0	17-21m, 50-60+			
34+200-6B30090.1		1968	PFT.	FOR, EXP.	STATION	ONT	45°59'	77°18'	145	B400	3.20	B3	94.0	17-21m, 50-60+			
34+200-6B31610.0		1969	CANOE LAKE		SASK	CAN	53°50'	105°00'	490	R	3.28	75	96.5				
34+200-6B31610.0		1969	CANOE LAKE		SASK	CAN	53°55'	105°50'	490	R	3.11	75	74.5				
34+200-6B31610.0		1970	GRAND LAKES		NH	CAN	45°57'	66°04'	90	B(15)	3.52	75	97.0				
34+200-6B31610.0		1970	SHI-NICKERBORN		NH	CAN	46°30'	66°00'	90	B(20)	3.50	75	97.5				
34+200-7010500.1		1970	SHI-NICKERBORN		NH	CAN	46°30'	66°00'	90	H(2)	3.52	75	75.5				
34+200-7020440.0		1970	THURFISH TWP.		QUE	CAN	46°36'	76°13'	240	S	3.60	75	11-12m, 40-50+				
34+200-7020440.2		1970	THURFISH TWP.		QUE	CAN	46°36'	76°13'	240	S	3.68	75	69.5	25cm, 9m, 40+			
34+200-7020470.0		1970	RIVETER MOUNTAIN		QUE	CAN	50°10'	68°35'	820		3.18	75	96.5	13cm, 11m, 50+			
34+200-7030320.0		1970	FOOT-IN TWP.		ONT	CAN	48°40'	81.00	300	B(35)	3.53	75	88.0	FIRST KILN			
34+200-7030320.1		1970	FOOT-IN TWP.		ONT	CAN	48°40'	81.00	300	B(34)	3.65	75	86.0	SECOND KILN			
34+200-7030330.0		1970	GREENAWAY TWP.		ONT	CAN	47°40'	82°47'	410	R(5)	3.28	75	84.0	15-18m, 80-90+			
34+200-7030330.1		1970	GREENAWAY TWP.		ONT	CAN	47°40'	82°47'	410	B(5)	3.32	75	51.5	15-18m, 80-90+			
34+200-7030340.0		1970	FOOT-IN TWP.		ONT	CAN	49°52'	86°24'	320	R	3.36	75	87.0	FIRST KILN			
34+200-7030340.1		1970	FOOT-IN TWP.		ONT	CAN	49°52'	86°24'	320	R	3.37	75	53.5	SECOND KILN			
34+200-7030350.0		1970	KIPIGON		ONT	CAN	49°33'	88°12'	275	S	3.30	75	90.5	10m, 30m			
34+200-7030350.1		1970	GRIT LAKE		ONT	CAN	49°11'	88°12'	275	S	3.50	75	66.5	SECOND KILN			
34+200-7030370.0		1970	CLEARWATER RGY		ONT	CAN	49°44'	94°49'	400	B(3)	2.94	75	93.5	7-11m, 65-98+			
34+200-7030370.1		1970	CLEARWATER RGY		ONT	CAN	49°44'	94°49'	400	R(3)	3.04	75	96.0	SECOND KILN			
34+200-7030430.0		1970	QUESTICO PROV. PARK		ONT	CAN	52°39'	92°14'	400	B(20)	3.25	75	97.5	20-28m, 21-23m, 70m			
34+200-7030430.1		1970	QUESTICO PROV. PARK		ONT	CAN	52°39'	92°14'	400	B(20)	3.17	75	72.0	SECOND KILN			
34+200-7030450.0		1970	GRIT LAKE		ONT	CAN	49°38'	94°12'	370	B(7)	3.03	75	97.5	19-24m, 93-103+			
34+200-7030450.1		1970	GRIT LAKE		ONT	CAN	49°38'	94°12'	370	B(5)	3.01	75	85.0	SECOND KILN			
34+200-7031800.0	\$ 7466	1970	C.F.B. PETAWAWA		ONT	CAN	52°37'	101.09	670	S	3.37	81	98.0				
34+200-7040360.0		1970	LAKE ST. MORTON		ONT	CAN	51°30'	98°20'	335	B(7)	3.41	75	77.5				
34+200-7040360.1		1970	LAKE ST. MORTON		ONT	CAN	51°30'	98°20'	335	B(7)	3.26	75	61.5	SECOND KILN			
34+200-7040410.0		1970	FLIN FLIN		MN	CAN	54°40'	101.47	550	B(2)	3.91	75	93.0	15-19m, 45-72+			
34+200-7040410.1		1970	FLIN FLIN		MN	CAN	54°40'	101.47	550	B(2)	3.89	75	85.5	SECOND KILN			
34+200-7040420.0		1970	FLIN FLIN		MN	CAN	52°37'	101.09	670	S	3.97	75	94.0	18-21m, 60-80+			
34+200-7040420.1		1970	FLIN FLIN		MN	CAN	52°32'	101.09	670	S	3.86	75	50.0	SECOND KILN			
34+200-7050390.0		1970	LAC LA RONGE		SASK	CAN	55°32'	105.18	370	B(5)	2.94	75	84.0	19-22m, 61-85+			
34+200-7050390.1		1970	LAC LA RONGE		SASK	CAN	55°12'	105.18	370	B(5)	2.93	75	80.0	SECOND KILN			
34+200-7050400.0		1970	BIG RIVER		SASK	CAN	53°44'	107.12	490	B(7)	4.02	75	88.5	10-12m, 47-50+			

SEED BANK NUMBER	HIBERNY NUMBER	YEAR GOL.	PROVENANCE	PROV	CTRY	LAT	LONG	ELEV (m)	CUL. TYPE	SEED WEIGHT	YEAR TESTD	GERH	REMARKS
34,200-7050400,1		1970	RIG RIVER	SASK	CAN	53,44	107,12	490	R(7)	4,16	75	70,5	SECOND KILN
34,200-7130320,0	1971	NIMITZ TWP., CHAPEAU	ONT	CAN	47,40	83,10	460	B	3,16	79	61,5	15-30cm + 15-18m	
34,200-7130330,0	1971	C.F.B. PETAWABO	ONT	CAN	45,59	77,21	145	B(50)	3,50	79	95,0		
34,200-7257430,0	1972	MONTRÉAL, LAKE	SASK	CAN	50,16	105,37	560	N/A	3,31	84	55,0		
34,200-7257450,0	1972	CANOLF LAKES	SASK	CAN	53,45	105,15	N/A	N/A	3,32	84	24,0		
34,200-7257460,0	1972	CHRISTOPHER LAKE	SASK	CAN	53,34	105,40	N/A	N/A	3,06	84	56,0		
34,200-7257460,0	1973	C.F.B. PETAWABO	ONT	CAN	45,57	77,22	150	B	3,50	83	97,0	FIRST KILN	
34,200-7330600,0	1973	C.F.B. PETAWABO	ONT	CAN	45,57	77,22	150	R	3,27	79	93,5	SECOND KILN	
34,200-7330600,1	1973	MELLIS TWP.	ONT	CAN	46,26	83,23	220	R(25)	3,09	75	97,7	15-21m + 60+9	
34,200-7331420,0	1973	AUDREY LAKE	ONT	CAN	49,45	94,10	460	B*	3,02	74	94,7	8(120) + 20-41cm	
34,200-7333410,0	1973	PET. FOR. EXP., STATION	ONT	CAN	45,57	77,22	150	S	3,60	79	98,0		
34,200-7333680,0	1973	PET. FOR. EXP., STATION	ONT	CAN	45,57	77,22	150	S	3,37	79	98,5		
34,200-7333690,0	1973	PET. FOR. EXP., STATION	ONT	CAN	45,57	77,22	150	S	3,00	83	93,0		
34,200-7333700,0	1973	PEI, FOR. EXP., STATION	ONT	CAN	45,57	77,22	152	S	3,00	83	93,0		
34,200-7333710,0	1973	PEI, FOR. EXP., STATION	ONT	CAN	45,57	77,22	150	S	3,08	75	99,0		
34,200-7333720,0	1973	PEI, FOR. EXP., STATION	ONT	CAN	45,57	77,22	150	S	3,33	75	99,5		
34,200-7333730,0	1973	PEI, FOR. EXP., STATION	ONT	CAN	45,57	77,22	150	S	3,43	75	92,0		
34,200-7350080,0	1973	MEADOW LAKE	SASK	CAN	56,22	109,42	520	B(6)	3,39	79	67,5		
34,200-7350090,0	1973	MONTREAL, LAKE	SASK	CAN	53,56	100,27	725	B	3,30	75	67,5		
34,200-7350100,0	1973	MONTREAL, LAKE	SASK	CAN	54,16	105,37	560	R(7)	3,36	75	92,0		
34,200-7350110,0	1973	SOLIHULL	SASK	CAN	56,16	103,20	440	R(B)	2,07	75	89,5		
34,200-7350120,0	1973	FRANCIE ALBERT	SASK	CAN	53,14	105,47	560	R(B)	3,00	75	87,0		
34,200-7350126,0	1973	HOLDSON RIVER	SASK	CAN	52,50	102,21	410	B(5)	3,95	75	92,0		
34,200-7350130,0	1973	LA RONGE	SASK	CAN	75,27	104,52	415	R(7)	2,81	75	85,5		
34,200-7350140,0	1973	SWASTIKA	ONT	CAN	47,30	80,00	N/A	N/A	3,40	83	99,0		
34,200-7435330,0	1978	C.F.B. PETAWABO	ONT	CAN	45,93	72,29	160	N/A	3,50	83	79,0		
34,200-7530200,0	1978	BRUCE PINEWOOD	ONT	CAN	45,33	80,32	200	N/A	3,00	84			
34,200-7630000,0	1978	FORTINIE & DAVID	QUE	CAN	46,45	75,51	244	N/A	4,70	84	96,5		
34,200-7827550,0	1978	HOWE LAKE	ONT	CAN	49,45	93,57	460	R	3,08	79	95,0	14-18m + 75-100m	
34,200-7836370,0	1978	WELLS TWP.	ONT	CAN	46,25	83,21	230	R	3,29	79	97,3		
34,200-7836340,0	1978	GIRIBOLD TWP., S.P.A.	ONT	CAN	47,14	81,14	380	R	3,12	79	96,0		
34,200-7836350,0	1979	C.F.B. PETAWABO	ONT	CAN	45,57	77,22	160	R	3,50	79	79,8		
34,200-7931650,0	1980	RELAND	QUE	CAN	46,54	76,02	S	3,90	68	92,5	15cm + 1.8m + 40+		
34,200-8121300,0	1981	JOLLETTE COUNTY	QUE	CAN	47,25	75,20	365	S	3,56	84	87,5	18cm + 1.6m + 45+	
34,200-8130900,0	1981	C.F.B. PETAWABO	ONT	CAN	45,59	75,23	150	R	3,70	82	99,0		
(34,200) PINUS CASTANEA VAR. CARIBEA													
34,200-7886740,0	1978	MORRITAS FIRAR RFL. RIO	CUB		22,00	84,00			R	14,40	R	45,0	
(34,410) PINUS CINTORTA VAR. CINTORTA (shore pine)													
34,410-7073220,0	1970	RICHWOOD	BC	CAN	49,10	123,10	3%	R	2,67	75	93,5		
34,410-7227220,0	1972	TERRACE	BC	CAN	54,52	128,47	150	R	2,49	76	74,0	NO KILN	
34,410-7227220,1	1972	TERRACE	BC	CAN	54,52	128,47	150	R	2,37	76	74,5		
(34,430) PINUS CINTORTA VAR. LATIFOLIA (old-growth pine)													
34,430-5950250,0	1958	CYPRESS HILLS FOREST PARK	SASK	CAN	49,40	109,30	120,30	R	5,69	R	78,0		
34,430-5960310,0	1959	ALLISON TRAIL	BC	CAN	49,30	120,30	N/A	R	5,16	R	74,0	CRIM HESTER PHSS	

SEEN LIST

SEEN	BANK NUMBER	NURSERY NUMBER	YEAR	PROVINCIAL	FROM	CTRY	LAT	LONG	FLU	COL.	SEED	YEAR	TESTED	GENA	REMARKS
34-430-5970620-0	1959	WHITEHORSE	YI	CAN	60°47'		135°07'		N/A		3.31	W			
34-430-6881120-0	1968	FRASER CITY	OR	CAN	44°32'		118°34'		S		4.50	R	97.0		
34-430-7040480-0	1970	HILLTOP	ALTA	CAN	53°14'		117°26'		R		3.48	R	93.8	20-38cm 12-15m	
34-430-7060490-0	1970	KAMINSKIS RES.	FOREST	ALTA	CAN	51°00'		115°00'		R		4.43	R	86.5	FIRST KILN
34-430-7050490-1	1970	KAMINSKIS RES.	FOREST	ALTA	CAN	51°00'		115°00'		R		4.37	R	83.5	SECOND KILN
34-430-7160350-0	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		3.39	R	89.0	25-29m 123-145m	
34-430-7160350-1	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		3.30	R	91.0	SECOND KILN	
34-430-7160360-0	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		3.37	R	99.5	FIRST KILN	
34-430-7160360-1	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		3.41	R	92.8	SECOND KILN	
34-430-7160370-0	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		2.80	R	95.0	FIRST KILN	
34-430-7160370-1	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		2.82	R	91.5	SECOND KILN	
34-430-7160380-0	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		3.73	R	97.5	FIRST KILN	
34-430-7160380-1	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		3.81	R	83.5	SECOND KILN	
34-430-7160390-0	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		5.08	R	98.5	FIRST KILN	
34-430-7160390-1	1971	MORHT HILLS	ALTA	CAN	54°34'		115°29'		B(C)		5.10	R	81.0	SECOND KILN	
34-430-7172000-0	1971	FORT ST. JAMES	BC	CAN	54°30'		124°15'		R		2.79	R	93.5		
34-430-7172010-0	1971	JOGGLE CREEK	BC	CAN	52°32'		121°53'		R		3.16	R	85.5		
34-430-7172020-0	1971	LAC LE JEUNE	BC	CAN	50°30'		120°36'		R		3.87	R	77.5		
34-430-7172030-0	1971	HOTEL TOW	BC	CAN	55°15'		122°30'		R		2.74	R	74.0		
34-430-7172130-0	1971	LEAFWATER	BC	CAN	51°40'		119°56'		R		3.48	R	92.5		
34-430-7172140-0	1971	HOLDOM HOPE	BC	CAN	56°03'		121°52'		R		3.12	R	95.2		
34-430-7186150-0	1971	LA MONTA	COL	OSA	37°35'		105°13'		R(B(20))		5.20	R	86.0	10-40cm 10-25m	
34-430-72267340-0	1972	NORFEGG	ALTA	CAN	52°30'		116°15'		R		3.90	R	84.0		
34-430-7272040-0	1972	HOTEL TOW	BC	CAN	51°10'		122°47'		R		2.70	R	71.0	FIRST KILN	
34-430-7272050-0	1972	HOMSON CREEK	BC	CAN	55°10'		122°47'		R		2.70	R	56.5	SECOND KILN	
34-430-7272050-1	1972	HOMSON CREEK	BC	CAN	55°40'		124°30'		R		2.58	R	68.5	FIRST KILN	
34-430-7272060-0	1972	JETOBIE CREEK	BC	CAN	52°32'		121°50'		R		2.26	R	75.0	SECOND KILN	
34-430-7272060-1	1972	JETOBIE CREEK	BC	CAN	52°32'		121°50'		R		3.05	R	74.5	FIRST KILN	
34-430-7272200-0	1972	JOHNSTON LAKE	BC	CAN	56°45'		121°44'		R		3.02	R	89.5		
34-430-7272200-0	1972	JOHNSTON LAKE	BC	CAN	59°35'		135°40'		R		3.22	R	80.5		
34-430-7272200-0	1972	JOHNSTON LAKE	YI	CAN	60°14'		134°24'		R		2.72	R	85.5		
34-430-72272300-0	1972	TAGISH LAKE	BC	CAN	50°35'		119°40'		R		2.67	R	73.0		
34-430-7477340-0	1974	FALKLAND	YI	CAN	60°10'		130°00'		R		2.67	R	75.0		
34-430-7477350-0	1974	FOOTLAKES RIVER	BC	CAN	60°10'		128°50'		R		2.67	R	81.3		
34-430-7575390-0	1975	PINEFALL	BC	CAN	50°43'		119°57'		R		2.70	R	90.0		
34-430-7575410-0	1975	WATSON LAKE	YI	CAN	60°10'		128°50'		R		2.90	R	77.2		
34-430-7678440-0	1976	GRANDE PLATEAU FOREST	ALTA	CAN	53°10'		118°48'		R		2.90	R	92.3		
34-430-7678450-0	1976	GRANDE PLATEAU FOREST	BC	CAN	55°46'		121°25'		R		3.46	R	95.0	SECOND KILN	
34-430-7678460-0	1976	HOBKIRY LAKE	BC	CAN	54°12'		124°26'		R		3.00	R	93.5		
34-430-7678480-0	1976	FRASER LAKE	BC	CAN	50°40'		119°29'		R		2.60	R	78.5		
34-430-7678490-0	1976	HOBKIRY LAKE	BC	CAN	52°30'		116°15'		R		4.00	R	84.0		
34-430-7678490-0	1976	WORNON	BC	CAN	55°00'		126°35'		R		3.20	R	96.0		
34-430-7678490-1	1976	WORNON	BC	CAN	56°43'		121°50'		R		3.30	R	95.5		
34-430-7678490-1	1976	WORNON	BC	CAN	53°40'		122°57'		R		2.90	R	93.5		
34-430-778430-0	1976	FERMI LAKE	BC	CAN	50°40'		119°29'		R		3.00	R	78.5		
34-430-778440-0	1976	FERMI LAKE	ALTA	CAN	52°30'		116°15'		R		2.60	R	84.0		
34-430-778440-0	1976	FERMI LAKE	YI	CAN	60°06'		129°35'		R		2.70	R	100.0		
34-430-777940-0	1977	NORTH RONCHERIA	YI	CAN	60°14'		134°24'		R		2.70	R	77.2		
34-430-777940-0	1977	TAGISH LAKE	BC	CAN	57°33'		121°40'		R		3.20	R	85.8		
34-430-777940-0	1977	THE WYN	BC	CAN	57°33'		121°40'		R		3.20	R	85.8		

SEED LIST

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SEED	RANK	NURSERY NUMBER	YEAR	COLL.	PROVENANCE	FROM	CTRY	LAT.	LONG.	FEU	FOLI	SEED	YEAR	%
										(#)	TYPE	WEIGHT	SEED	GERM.
34,430-7779490,0		1972 MONCHON		BT	CAN	56,45	121,44	884	8	3,30	79	96,5		
34,430-7779500,0		1977 VAN FLOUWY		BT	CAN	52,50	139,13	870	B	3,10	78	96,0		
34,430-7779510,0		1977 TFL KWA		BT	CAN	54,37	127,03	780	B	3,10	78	97,0		
34,430-7779520,0		1977 WOKOMOR		BT	CAN	56,43	121,50	950	B	3,30	78	94,2		
34,430-7779530,0		1977 CANON ROAD		BT	CAN	61,08	132,50	900	B	3,30	83	69,0		
34,430-7779540,0		1977 TESLIN		BT	CAN	60,18	132,45	700	B	3,10	78	89,8		
34,430-7779550,0		1977 GASTINEAU		BT	CAN	56,02	129,00	780	B	3,40	78	95,5		
34,430-7779560,0		1977 BOUY HUSSES		BT	CAN	54,40	122,57	820	B	2,90	78	H9,5		
34,430-7779570,0		1977 MULI STOH		BT	CAN	56,00	125,10	815	B	3,10	78	90,0		
34,430-7779580,0		1977 SOUARE		BT	CAN	60,30	134,45	873	B	3,00	78	70,0		
34,430-7779590,0		1977 QUIET LAK		BT	CAN	60,55	133,00	900	B	2,90	78	74,5		
34,430-7779600,0		1977 CARMACKS		BT	CAN	62,08	135,15	620	B	2,80	78	84,5		
34,430-7779610,0		1977 STIMPSON LAKE		BT	CAN	60,45	129,10	760	B	3,10	78	B2,0		
34,430-7779620,0		1977 TAGISH		BT	CAN	60,30	134,30	850	B	3,10	78	B2,7		
34,430-7779630,0		1977 FINLAY MOUNTAIN		BT	CAN	53,20	123,48	910	B	2,90	78	93,2		
34,430-7779640,0		1977 MADDON RIVER		BT	CAN	55,15	124,10	970	B	2,80	78	H3,8		
34,430-7779650,0		1977 FORT ST. JAMES		BT	CAN	54,30	124,10	900	B	2,90	78	85,0		
34,430-7779660,0		1977 FRINCE GEORGE		BC	CAN	54,08	122,15	775	B	3,00	78	93,8		
34,430-7779670,0		1977 FRENCH ISLAND RIVER		BT	CAN	60,10	128,50	700	B	3,10	78	B3,0		
34,430-7779680,0		1977 FLK MOUNTAIN		BT	CAN	60,15	132,50	750	B	3,00	83	B1,0		
34,430-7779690,0		1977 HACHEMIE		BT	CAN	55,20	123,05	725	B	2,80	78	H6,8		
34,430-7779700,0		1977 HEDRIE LAKE		BT	CAN	54,24	125,30	4,000	B	2,50	83	92,0		
34,430-7779710,0		1977 HOFFELY LAKE		BT	CAN	55,40	121,27	750	B	3,20	83	HR,0		
34,430-7779720,0		1977 HUSKEE LAKE		BT	CAN	57,20	120,43	1,000	B	3,20	79	85,3		
34,430-7779740,0		1977 FLK MOUNTAIN		BT	CAN	57,00	122,40	1,050	B	3,30	79	BB,3		
34,430-7877130,0		1978 HOBIG LAKE		YI	CAN	60,49	135,06	701	B	3,10	79	94,0		
34,430-7877150,0		1978 SOUTHEAST		BT	CAN	60,30	133,45	873	B	2,80	83	76,0		
34,430-7877160,0		1978 TADSI BH		YI	CAN	60,30	134,30	850	B	3,10	83	77,0		
34,430-7877170,0		1978 CARMACKS		YI	CAN	62,08	131,15	620	B	3,00	79	89,8		
34,430-7877180,0		1978 KOYA LAK		BT	CAN	59,30	129,00	780	B	3,10	79	96,2		
34,430-7877190,0		1978 TESLIN		YI	CAN	60,18	132,45	700	B	3,00	83	77,0		
34,430-7974030,0		1979 ANGLE LAK		YI	CAN	60,25	134,50	800	B	3,00	79	89,5		
34,440 P. THUS CONFORTA var. MURRAYAN														
34,440-6BB1430,0		1968 CAMPSIDE		BT	USA	36,06	118,32	7460	S	5,90	R3	87,0	91cm+30m	
(34,500) PINUS DENSIFLORA (Japanese red pine)		1973 WHITE PINECONE		BT	USA	39,40	141,10E	205	B	11,20	R4	80,0	R-12cm+3-4m+16m	
(34,553) PINUS ELIOTII (Massachusetts white)		1975 GEORGIA		BT	USA	36,06	118,52	130	R	110,80	R3	19,0	25-51cm+6-7m	
(34,600) PINUS FLIXILLIS (Rocky Mountain white)		1976 GOLDEN		PA	30,15	67,00E	5000	H4	67,10	R3	84,0			
(34,650) PINUS HALIFENSIS (Acadia pine)		1978 FISHIN QUETTA		PA	38,00	118,52	130	R	110,80	R3	19,0			

SEED TEST

SEED BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROV/MANUF.	CTRY	LAT	LONG	FL/FU (m)	TH/L (m)	SEED WEIGHT (g)	YEAR TEST	SEED TEST GROWTH
(34,700) PINUS KOREANUS (Korean pine)											
34,900-77B92B0+0	1977	U.677E5K		CHN	47,15	134,35E	100	8	485,00	88	
34,900-BQB1220+0	1978	HEILONGJIANG P. NANCHUKIA		CHN	48,00	125,00E	N/A	N/A	413,20	88	
34,900-BQB1220+0	1980	BALING, HETIANG		CHN	47,00	127,00F	N/A	N/A	464,00	88	5,3

(34,900) PINUS MONICOLA (western white fir/white pine)

34,900-7071B10+0	1970	ATLANTIC LAKE	BC	CAN	51,25	119,30	550	R	11,66	88	
34,900-7473900+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	R	30-35cm, 9-12m, 70+		
34,900-7473910+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	S			
34,900-7473920+0	1976	UANC0109ER TSJ,60H	BC	CAN	48,43	123,51	580	S			
34,900-7473930+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	590	S			
34,900-7473940+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	S			
34,900-7473950+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	S			
34,900-7473960+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	S	17,40		
34,900-7473970+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	S	18,10	88	
34,900-7473980+0	1974	UANC0109ER TSJ,60H	BC	CAN	48,43	123,52	580	S			
34,900-7473990+0	1974	HUNTING PROV., PARK	BC	CAN	49,10	120,54	1130	S			
34,900-7474000+0	1974	HUNTING PROV., PARK	BC	CAN	49,10	120,54	1130	S			
34,900-7474010+0	1974	HUNTING PROV., PARK	BC	CAN	49,10	120,54	1130	S			
34,900-7474020+0	1974	HUNTING PROV., PARK	BC	CAN	49,10	120,54	1130	S			
34,900-7474030+0	1974	HUNTING PROV., PARK	BC	CAN	49,10	120,54	1130	S			
34,900-7474040+0	1974	HUNTING PROV., PARK	BC	CAN	49,10	120,54	1130	S			
34,900-7474050+0	1974	ROGER'S PASS	BC	CAN	51,30	117,18	1080	R			
34,900-7474060+0	1974	ROGER'S PASS	BC	CAN	51,30	117,18	1080	S			
34,900-7474120+0	1974	ROGER'S PASS	BC	CAN	51,30	117,18	1080	S			
34,900-7477320+0	1974	ADAMS LAKE	BC	CAN	51,25	119,30	200	R	15,80	88	
34,900-7679320+0	1976	WEST ADAMS	BC	CAN	50,54	119,46	686	N/A	17,11	88	
34,900-8370630+0	1983	ADAMS LAKE	BC	CAN	51,30	119,38	1050	N/A	34,10	88	

(35,200) PINUS NIGRA (Austrian pine)

35,200-7485410+0	1974	AUSTRIA	AUT						18,96	R, 300,0	
35,200-8330037,0	1983	SHERWOOD PARK	BC	BC	47,43	79,23	350	R	30,66	R, 54,0	PLANTATION FORTRESS
(35,230) PINUS NIGRA var. BONITA											
35,230-7485340+0	1974	BAILE HERCULANE	ROU	44,50	22,30F	675	R		19,28	78, 91,0	
(35,235) PINUS NIGRA var. KOEKELARE											
35,235-8181290+0	1981	HOLL 4504H SEED ORCHARD	BEI	50,44	4,14E		N/A		19,28	88, 68, 0	VIA DR. VANSON
(35,260) PINUS OCARPA											
35,260-7789310+0	1977	THASAI THPEC-TE JUPTLC	HEX	18,57	100,05	1675	R		24,20	R, 3	88, 0

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COUNTRY	PROV	CITY	LAT	LONG	FLU COL.	SEED (m)	YEAR	REMARKS
								TYPE	WEIGHT	TEST	
35,600-7171920,0	1971 FAIRFIELD	BC	CAN	50°30'	119°35'	88%	R	49.27	R3	95.0	
35,600-7172100,0	1971 FRITHMARD 41	BC	CAN	50°46'	119°47	88%	R	51.64	R3	97.0	
35,600-7172110,0	1971 FRITHMARD 42	BC	CAN	50°46'	119°47	85%	R	45.94	R3	69.0	
35,600-7172120,0	1971 FRITHMARD 43	BC	CAN	50°46'	119°47	84%	R	50.50	R3	86.0	
35,600-7272150,0	1972 FAIRFIELD	BC	CAN	50°30'	119°35'	88%	R/H	46.89	R3	51.0	
35,400-7393210,0	1973 NAGANO PREFECTURE	JPN	35°52'	137°40E	900	S	114.86	R4	35.2m+100+35%		
35,600-7393210,0	1973 NAGANO PREFECTURE (Japanese white pine)	JPN	35°52'	137°40E	900	S	114.86	R4	35.2m+100+35%		
35,900-5335050,0	1953 STURGEON FALLS	ONT	CAN	46°22'	79°55'	H/A	R,62	R3	31.0		
35,900-5778030,0	1957 DELTA COUNTY	HIGH	USA	46°00'	87.00	H/A	R,57	R3	92.0		
35,900-6030200,0	1960 CERIFICE LAKE PARK, FFFS	ONT	CAN	47°57'	77.30	200	R/4	R,40	R3	94.0	
35,900-6630490,0	1966 C.F.B. PETAWAHA	ONT	CAN	46°01'	77.21	175	R	9.61	R3	79	
35,900-6630490,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45°36'	77.34	R	R,30	R3	78.0		
35,900-6630490,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45°58'	77.24	160	H/A	9.35	R3	75.0	
35,900-6632560,0	1967 SORRY FOR. EXP. STATION	ONT	CAN	46°02'	73.07	B	R,58	R3	31.0		
35,900-6723090,0	1967 SPOOK LOOKOUT	ONT	CAN	45°58'	77.30	190	R	9.99	R3	84.7	
35,900-6820040,0	1968 STICKWOOD PROV. PARK	ONT	CAN	50°04'	91.57	170	R	7.17	R3	86.3	18-21m+140-170m
35,900-6939240,0	1969 STICKWOOD PROV. PARK	ONT	CAN	46°11'	77.51	170	R	8.47	R3	93.8	
35,900-6939240,0	1969 HIGHFIELD	ONT	CAN	45°58'	77.49	120	B	8.90	R3	100.0	FIRST KILN
35,900-6931500,0	1969 HIGHFIELD	ONT	CAN	45°58'	77.49	120	R	8.50	R3	100.0	FIRST KILN
35,900-6931500,0	1969 HIGHFIELD	ONT	CAN	45°58'	77.49	120	R	8.60	R3	100.0	THIRD KILN
35,900-6931500,0	1969 HIGHFIELD	ONT	CAN	45°58'	77.49	120	R	8.60	R3	100.0	SECOND KILN
35,900-6931500,0	1969 HIGHFIELD	ONT	CAN	45°58'	77.49	120	R	8.00	R3	48.0	THIRD KILN
35,900-6931500,0	1969 C.F.B. PFTAMADA	ONT	CAN	45°58'	77.49	120	B	9.45	R3	99.2	FIRST KILN
35,900-6931500,0	1969 C.F.B. PFTAMADA	ONT	CAN	45°58'	77.49	120	R	8.30	R3	100.0	THIRD KILN
35,900-6931500,0	1969 C.F.B. PFTAMADA	ONT	CAN	45°58'	77.49	120	R	8.95	R3	99.8	FIRST KILN
35,900-6931500,0	1969 C.F.B. PFTAMADA	ONT	CAN	45°58'	77.49	120	R	8.70	R3	97.0	THIRD KILN
35,900-6931500,0	1969 C.F.B. PFTAMADA	ONT	CAN	45°58'	77.49	120	R	9.00	R3	97.2	FIRST KILN
35,900-6931500,0	1969 C.F.B. PFTAMADA	ONT	CAN	45°58'	77.49	120	R	8.50	R3	93.0	THIRD KILN
35,900-6931540,2	1969 PEI. FOR. EXP. STATION	ONT	CAN	45°58'	77.49	120	R	8.55	R3	99.6	FIRST KILN
35,900-6931540,2	1969 PEI. FOR. EXP. STATION	ONT	CAN	45°58'	77.34	210	R	9.30	R3	88.0	SECOND KILN
35,900-6931540,2	1969 PEI. FOR. EXP. STATION	ONT	CAN	45°58'	77.34	210	R	9.40	R3	100.0	THIRD KILN
35,900-6931550,0	1969 PEI. FOR. EXP. STATION	ONT	CAN	45°58'	77.34	210	R	8.50	R3	99.8	FIRST KILN
35,900-6931550,0	1970 BEAUF. LAKES	HS	CAN	44°14'	65.20	140	B(10)	7.58	R3	98.0	15-30cm+9m+20-30m
35,900-6931550,0	1970 BEAUF. LAKES	HS	CAN	45°43'	66.42	60	R(5)	R,40	R3	100.0	1st KILN+15-30m
35,900-6931570,0	1970 TRACY	NB	CAN	45°43'	76.26	B	R,45	76	R3	98.0	
35,900-6931580,1	1970 MORTGAY RAY	ONT	CAN	45°37'	76.19	150	R	8.91	R3	100.0	
35,900-6931580,1	1970 ALICE	ONT	CAN	45°45'	77.19	140	S	10.27	R3	99.0	FIRST KILN
35,900-6931580,2	1970 C.F.B. PETAWAHA	ONT	CAN	45°59'	77.22	140	S	10.27	R3	100.0	FIRST KILN
35,900-6931580,2	1970 C.F.B. PETAWAHA	ONT	CAN	46°06'	72.19	150	S	8.52	R3	98.5	FIRST KILN
35,900-6931580,2	1970 C.F.B. PETAWAHA	ONT	CAN	45°59'	77.22	140	S	9.36	R3	99.5	FIRST KILN
35,900-6931580,2	1970 C.F.B. PETAWAHA	ONT	CAN	46.01	77.21	180	R(5)	9.62	R3	98.0	FIRST KILN

SEED TEST

SEED BANK NUMBER	NURSERY NAME	YEAR	PROVENANCE	PROV.	CTRY	LAT	LONG	ELFTU (m)	CHL (m)	TYPE	1000 SEED		YEAR 2	TETHI PERCENT	REMARKS
											WEIGHT	WEIGHT			
35, 900-7030210,0	1970 DRIFFLEWOOD FOREST, PARK	ONT	CAN	46,11	77,51	150	S	9,27	76	99,5	FIRST KILN				
35, 900-7030220,0	1970 DRIFFLEWOOD FOREST, PARK	ONT	CAN	46,11	77,51	150	S	7,51	76	98,5	FIRST KILN				
35, 900-7030230,0	1970 DRIFFLEWOOD FOREST, PARK	ONT	CAN	46,11	77,51	150	B(7)	8,10	76	99,5	FIRST KILN				
35, 900-7030240,0	1970 DRIFFLEWOOD FOREST, PARK	ONT	CAN	46,11	77,51	150	S	8,80	R3	100,0	FIRST KILN				
35, 900-7030250,0	1970 ELKHORNIDGE TWP.	ONT	CAN	47,00	79,30	150	R	7,77	77	99,5	21-29m+18.5				
35, 900-7030260,0	1970 HOGGENDAARD	ONT	CAN	49,1B	80,05	170	B	8,00	79	98,3	1st 25-51cm+107m				
35, 900-7030270,0	1970 HOGGENDAARD	ONT	CAN	47,20	84,39	210	B(5)	8,38	76	98,5	10-15m+40-70m				
35, 900-7030290,0	1970 ATTKIGAN	ONT	CAN	48,58	91,47	410	B(30)	B,R0	R3	97,0	27-31m+85-95m				
35, 900-7030300,0	1970 FRENCH LANE	ONT	CAN	48,4	91,42	410	B(45)	B,73	76	99,0	38-40m+200-250m				
35, 900-7030310,0	1970 STONECLIFFE	ONT	CAN	46,12	77,58	210	H/A	7,65	79	73,5					
35, 900-7030320,0	1970 STONECLIFFE	ONT	CAN	46,12	77,58	210	H/A	7,61	79	78,3					
35, 900-7232200,0	1972 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	S	9,10	B3	98,0	FIRST EXTRACTON				
35, 900-7232210,0	1972 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	S	8,10	B3	99,0	FIRST EXTRACTON				
35, 900-7232220,0	1972 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	B(3)	9,80	R3	100,0	FIRST EXTRACTON				
35, 900-7232230,1	1972 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	B(3)	B,R5	76	95,0	SECOND EXTRACTON				
35, 900-7331380,0	1973 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	B(3)	7,55	R3	98,5	ST.2951				
35, 900-7331390,0	1973 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	S	7,81	R3	98,0					
35, 900-7331400,0	1973 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	S	8,07	R3	98,0					
35, 900-7331410,0	1973 C.F.R. PELHAMM	ONT	CAN	45,58	77,19	120	S	R,40	R3	97,0					
35, 900-72934010,0	1979 DEEP RIVER	ONT	CAN	46,06	77,29	140	R	9,16	R3	94,0					
35, 900-R031770,0	1980 DEEP RIVER	ONT	CAN	46,06	77,29	140	R	9,90	R3	84,0					
(36,100) PINUS RIGIDA (Pitch pine)															
36, 100-7235660,0	1972 MORTON	ONT	CAN	44,30	76,10	110	R	7,98	R4	93,0					
36, 100-7235670,0	1972 MORTON	ONT	CAN	44,30	76,10	110	B(40)	R,94	R4	96,0					
36, 100-73R3310,0	1973 ADIRONDACK MOUNTAINS	NY	USA	44,00	74,00	110	R	B,90	R3	70,0					
36, 100-7434940,0	1974 MORTON	ONT	CAN	44,30	76,10	110	R	R,40	R3	86,0					
(36,150) PINUS ROXBURGHIANA															
36, 150-7BB0660,0	1978 GHORAK GUL	P&K	PAK	34,35	73,32F	1200	H/A	94,R0	R4	97,0					
(36,200) PINUS strobus Eastern white (Weymouth pine)															
36, 200-6630210,0	1966 PET. FOR. EXP. STATION	ONT	CAN	48,59	77,25	150	S	15,10	R2	17,9					
36, 200-6630220,0	1966 PET. FOR. EXP. STATION	ONT	CAN	48,59	77,25	150	S	15,79	R0	84,5					
36, 200-6630230,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,59	77,25	150	S	14,13	76	94,5					
36, 200-6630240,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,58	77,27	150	S	19,72	76	97,5					
36, 200-6630250,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,55	77,29	170	S	17,13	76	97,0					
36, 200-6630270,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,55	77,29	170	S	12,93	76	97,0					
36, 200-6630280,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,55	77,29	170	S	17,41	R2	98,1					
36, 200-6630290,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,55	77,29	170	N/A	14,25	76	79,0					
36, 200-663030,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,55	77,29	170	S	3,6,10	R3	64,0					
36, 200-6630370,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,56	77,33	150	S	20,98	72	96,2					
36, 200-6630420,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,56	77,33	150	S	19,12	R2	34,0					
36, 200-6630430,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,56	77,33	150	S	17,54	R3	60,0					
36, 200-6630440,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,56	77,33	150	S	15,05	R3	65,0					
36, 200-6630470,0	1966 PET. FOR. EXP. STATION	ONT	CAN	45,56	77,33	150	S	13,70	R3	31,5					

SFFU BANK NUMBER	NURSERY NUMBER	YEAR COLL.	PROVENANCE	PROV.	CTRY.	LAT.	LONG.	FLEW	CUL.	SEED (m)	YHR.	2	REMARKS
								TYPE	WEIGHT	TSTD.	GFRH		
36,200-6631700-0		1966	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°33'	150	B(10)	13,23	R2	74,5	
36,200-6631710-0		1966	FET, FOR, EXP., RIVER	ONT	CAN	45°56'	77°34'	150		6		84	
36,200-6631720-0		1966	PETAWAHO RIVER	ONT	CAN	45°56'	77°33'	150		6		84	
36,200-6631730-0		1966	PETAWAHO RIVER	ONT	CAN	45°56'	77°33'	150		6		84	
36,200-6631740-0		1966	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°34'	150		6		84	
36,200-6631750-0		1966	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°34'	150		6		84	
36,200-6631760-0		1966	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°33'	150		6		84	
36,200-6631790-0		1966	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°33'	150		6		84	
36,200-6631800-0		1966	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°33'	150		6		84	
36,200-6730070-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°57'	77°28'	200	H/A	18,60	R3	39,0	
36,200-6730090-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°57'	77°28'	200	H/A	20,93	R3	31,0	
36,200-6730100-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°57'	77°28'	200	H/A	26,30	R3	31,0	
36,200-6730110-0		1967	P.F. F.S. RACE HORSE RD.	ONT	CAN	45°57'	77°27'	200	H/A	40,85	R3	40,5	
36,200-6730120-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°57'	77°28'	200	H/A	37,0	R3	31,0	
36,200-6730130-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°57'	77°28'	200	H/A	45,30	R3	26,5	
36,200-6730170-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°56'	77°33'	152	H/A	20,54	R3	34,0	
36,200-6730190-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45°57'	77°28'	200	H/A	19,25	R3	30,0	
36,200-6731100-0		1967	FET, FOR, EXP., STATION	ONT	CAN	46,00	77°27'	170	H/A	22,41	R3	58,0	
36,200-6731160-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45,59	75,25	170	H/A				
36,200-6732010-0		1967	FET, FOR, EXP., STATION	ONT	CAN	45,59	75,25	170	H/A				
36,200-6732010-0		1967	FET, FOR, EXP., STATION	ONT	CAN	49,14	55,32	R(15)					
36,200-7011210-0		1970	NEW BOY FISH	ONT	CAN	45,50	66,05	A(5)					
36,200-7011220-0		1970	CAMBRIDGE Twp.	ONT	CAN	49,39	92,14	400	H/A	17,44	R3	62,5	
36,200-70311230-0		1970	ATLANTIC	ONT	CAN	47,00	79,30	310	B	13,74	R3	52,5	
36,200-70311250-0		1970	EL DORADO Twp.	ONT	CAN	49,16	88,09	340	S	18,10	R3	93,4	
36,200-70311260-0		1970	HUCHARIAID	ONT	CAN	45,20	79,58	210	B(3)	17,36	R3	30,0	
36,200-70311280-0		1970	PARRY SOUND	ONT	CAN	47,36	83,42	450	R(4)	14,29	R3	24,30	
36,200-70311290-0		1970	ABLER LKE	ONT	CAN	45,58	77,29	200	H/A	28	R3	20,5	
36,200-70311300-0		1970	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,29	200	S	23,30	R3	52,0	
36,200-70311320-0		1970	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,29	200	H/A	18,38	R3	93,5	
36,200-70311330-0		1970	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,29	200	H/A	23,97	R3	97,5	
36,200-70311340-0		1970	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,29	200	H/A	14,61	R3	78,0	
36,200-70311350-0		1970	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,29	200	H/A	19,57	R3	91,5	
36,200-70311370-0		1970	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,29	200	H/A	20,65	R3	47,0	
36,200-72300110-0		1972	C.F.B. PELHAM	ONT	CAN	45,53	77,30	R(2)					
36,200-72300120-0		1972	RIGGAR LKE, FEI LAKE	ONT	CAN	45,58	77,30	206	S				
36,200-72300130-0		1972	PET, FOR, EXP., STATION	ONT	CAN	45,59	77,25	170	H/A	17,90	R3	42,0	
36,200-72300150-0		1972	FET, FOR, EXP., STATION	ONT	CAN	45,58	77,30	180	S	22,91	R3	85,0	
36,200-72300160-0		1972	C.F.B. PELHAM	ONT	CAN	45,53	77,30	200	S	14,35	R3	82,0	
36,200-72300170-0		1972	FET, FOR, EXP., STATION	ONT	CAN	45,53	77,30	170	H/A	18,57	R3	44,0	
36,200-72300180-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	S	19,14	R3	92,0	
36,200-72300190-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	B(2)	21,25	R3	79,0	
36,200-7230100-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	B(2)	22,16	R3	79,0	
36,200-7230110-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	S	20,10	R3	64,0	
36,200-7230120-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	S	25,10	R3	86,0	
36,200-7230130-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,25	170	B(4)	24,60	R3	55,0	
36,200-7230140-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	S	20,40	R3	88,0	
36,200-7230150-0		1972	RIGGAR LKE, C.F.B.	ONT	CAN	45,53	77,30	200	R(3)	23,37	R3	97,0	

SEED LIST

SEED BANK NUMBER	YEAR	NURSERY COLL.	PROVENANCE	PROV	CTRY	LAT	LONG	TYPE	ELFU FULL (m)		YEAR	MIGHT RATIO (GFNN)	REMARKS
									SEEH	1000			
36,200-7230240,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	9/4	20.83	R3	71.0	
36,200-7230250,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	23.39	R3	96.0	
36,200-7230260,0	1972	BIGGOR LAKE*	C.F.R.	ONI	CAN	45.53	71.30	200	R(3)	24.05	R3	86.0	
36,200-7230270,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	R(3)	20.52	R3	99.0	
36,200-7230280,0	1972	BIGGOR LAKE*	C.F.R.	ONI	CAN	45.53	71.30	200	S	22.00	R3	83.0	FACB*20m
36,200-7230290,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	22.45	R3	29.0	
36,200-7230300,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	B(2)	20.69	R3	B1.0	
36,200-7230310,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.25	170	S	27.50	R3	98.0	
36,200-7230320,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.25	170	S	21.60	R3	78.0	
36,200-7230340,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.25	170	S	14.80	R3	55.0	
36,200-7230350,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.25	170	S	15.90	R3	65.0	
36,200-7230360,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	19.87	R3	74.0	
36,200-7230370,0	1972	BIGGOR LAKE*	C.F.R.	ONI	CAN	45.53	71.30	200	B(3)	22.10	R3	82.0	
36,200-7230380,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.58	71.25	160	S	16.70	R3	52.0	-4.6cm*75cm
36,200-7230390,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.58	71.25	170	S	15.40	R3	92.0	
36,200-7230400,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	26.20	R3	56.0	
36,200-7230410,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	18.10	R3	65.0	
36,200-7230420,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	21.20	R3	57.0	
36,200-7230430,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	17.10	R3	83.0	
36,200-7230440,0	1972	BIGGOR LAKE*	C.F.R.	ONI	CAN	45.53	71.30	200	S	22.20	R3	45.0	
36,200-7230450,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	S	14.30	R3	81.0	
36,200-7230470,0	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	H/H	17.70	R3	29.0	FIRST FIXATION
36,200-7230470,5	1972	BIGGOR LAKE*	C.F.B.	ONI	CAN	45.53	71.30	200	H/H	19.30	R3	82.0	
36,200-7230480,0	1972	PFT FOR EXP. STATION	ONI	ONI	CAN	45.54	71.25	170	S	**		97.0	10cm*14m
36,200-7331450,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.26	180	H/H	16.20	R3	97.0	
36,200-7331460,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	46.00	71.25	160	H/H	19.50	R3	R2.0	
36,200-7331470,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.24	160	H/H	13.70	R3	R4.0	
36,200-7331480,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.25	160	H/H	19.80	R3	97.0	
36,200-7331490,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.25	160	S	10.80	R3	62.0	
36,200-7331500,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.24	160	S	15.60	R3	67.0	FACB*77m
36,200-7331510,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.25	180	S	25.40	R3	97.0	
36,200-7331520,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.24	160	H/H	20.50	R3	64.0	
36,200-7331530,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.24	160	S	16.40	R3	56.0	
36,200-7331540,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.24	160	S	13.80	R3	100.0	
36,200-7331550,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.26	180	S	14.90	R3	93.0	
36,200-7331560,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	45.59	71.26	180	R(3)	15.17	R3	81.0	
36,200-7331570,0	1973	PFT FOR EXP. STATION	ONI	ONI	CAN	46.00	71.25	160	H/H	20.60	R3	76.0	
36,200-7331580,0	1977	BORDEN TWP.	ONI	ONI	CAN	45.59	71.24	160	S	16.50	R3	95.0	
36,200-7331590,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	11.40	R3	69.0	
36,200-733540,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	13.40	R3	32.0	
36,200-7733560,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	18.21	R3	92.0	
36,200-7733570,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	20.04	R3	93.5	
36,200-7733580,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	18.45	R3	96.0	
36,200-7733590,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	14.88	R3	97.5	
36,200-773560,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	14.88	R3	97.5	
36,200-7735610,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	14.88	R3	97.5	
36,200-7735620,0	1977	BORDEN TWP.	ONI	ONI	CAN	47.53	71.10	400	S	14.88	R3	97.5	

SEED BANK NUMBER	NURSERY NUMBER	PROVENANCE	PROV.	CTRY.	LAT.	LONG.	FLEU	EDLL	SEFD	YEAR	%
COLL.				(°)	TYPE	(°)	WEIGHT	WEIGHT	TYPE	WEIGHT	PERCENT
36,200-7735670,0	1977 PAULISH TWP.	ONT	CAN	47,16	B1,45	AOD	S	13,37	78	88,0	91cm + 1m
36,200-7735680,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	R	16,88	78	98,5	66cm + 24m
36,200-7735690,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	R	15,99	78	99,5	
36,200-7735700,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	R	12,62	78	97,0	
36,200-7735710,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	R	12,09	78	98,0	
36,200-7735720,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	R	17,31	78	99,0	
36,200-7735730,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	S	15,88	78	91,0	
36,200-7735740,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	R	16,R1	78	91,0	
36,200-7735750,0	1977 WAI DTE TWP.	ONT	CAN	46,08	R0,50	210	S	19,95	78	98,0	
36,200-7735760,0	1977 WAI DTE TWP.	ONT	CAN	45,06	79,18	270	R4	16,76	78	98,5	R(10-17) 80cm, 25m
36,200-7735790,0	1977 HERTA TWP.	ONT	CAN	46,00	78,09	290	B	15,08	78	97,0	
36,200-7931210,0	1979 BEER RJER	ONT	CAN	46,06	77,29	115	R(5)	19,71	R3	100,0	
36,200-7931220,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	S	20,R3	R3	98,0	46-56cm + 18-78m
36,200-7931230,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	R	20,R3	R3	100,0	
36,200-7931240,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	S	18,37	R3	97,0	
36,200-7931250,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	R	16,03	R3	100,0	
36,200-7931260,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	S	19,20	R3	100,0	
36,200-7931270,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	R	17,76	R3	99,0	
36,200-7931280,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	S	16,04	R3	95,0	
36,200-7931290,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	R	15,62	R3	100,0	
36,200-7931300,0	1979 CFB PETAWAWA	ONT	CAN	45,59	77,23	150	S	19,30	R3	99,0	
36,200-7931310,0	1979 PETAWAWA NAT'L INSTIT.	ONT	CAN	45,59	77,23	150	S	20,32	R3	100,0	
36,200-9233380,0	1982 PET. NAT'L INSTIT.	ONT	CAN	45,59	77,29	290	R(4)	11,60	R3	77,0	
(36,220) PINUS STROBUS L. THIERS 16											
36,220-7687790,0	1976 THIERSCAN VEN.	HFX	19,53	97,45	78%	H/H	19,00	R3	14,0		
(36,300) PINUS SYLVESTRIS (Scots) VEN											
36,300-6731840,0	1967 PET. FOR. EXP. STATION	ONT	CAN	45,58	77,24	160	R	6,40	R3	94,0	
36,300-6980220,0	1968 TIGER JER	SKB	AO,40	16,45E	740	R	7,14	R3			
36,300-7081640,0	1970 QOROKEH	SUB	52,00	40,00E	R	6,98	71	96,3			
36,300-7081650,0	1970 OBL'CUK OB LAST	SUB	53,00	35,00E	R	6,82	R4	R5,0			
36,300-7081660,0	1970 KIEV OB LAST	SUB	50,00	30,00E	R	6,80	R4	62,0			
36,300-7082000,0	1970 EL'QAR ESTONIAN SSR	SUB	50,20	26,00E	R	5,80	R3	80,0			
36,300-7181600,0	1971 YURU, ESTONIAN SSR	SUB	52,50	27,00E	R	6,00	R3	73,0			
36,300-7181910,0	1971 VOLGOMA, ESTONIAN SSR	SUB	52,45	26,00E	R	6,30	R3	R3,0			
36,300-7333130,0	1972 LINISAY	ONT	CAN	44,21	7R,44	S	R,00	R3	100,0	9-13/5	
36,300-7333140,0	1973 THESALON	ONT	CAN	46,15	R3,24	S					
36,300-7333500,0	1973 ANGMS	ONT	CAN	44,19	79,53	S					
36,300-7333510,0	1973 THESALON	ONT	CAN	46,15	R3,24	S					
36,300-7383420,0	1973 MURAT	ENG	45,06	2,15F	S						
36,300-7383426,0	1973 THEFTORD CHASE FOREST	ENG	52,30	4,30E	S						
36,300-7383440,0	1973 NORWICH	SCO	57,33	3,29	S						
36,300-7384550,0	1973 HORSHAM	SCO	57,34	3,29	S						
36,300-7384560,0	1973 HORSHAM	SCO	57,34	3,29	S						
36,300-7384570,0	1973 HORSHAM	SCO	57,34	3,29	S						
36,300-7384580,0	1973 HORSHAM	SCO	57,34	3,29	S						

SECOND EXTRACT
ST+295
ST+295
ST+295
ST+295

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	CULT.	PROVENANCE	FROM	CTRY	LAT	LONG	FLFLU		SEED (kg)	YEAR (%)	TEST (%)	GERM (%)	REMARKS
									(m)	TYPE					
36,300-74B3670,0	1973 MORASHIRE	1973	MORASHIRE	SIC	57° 33'	SIC	3° 29'	S	7.10	B3	84.0	ST. 2967			
36,300-74B6670,0	1974 ULMAS, LITHUANIAN SSR	1974	ULMAS, LITHUANIAN SSR	SUN	54° 38'	SUN	25° 28E	100	S	6.60	57.0	45cm, 31m, 120w			
36,300-74B6680,0	1974 IDNAUS, LITHUANIAN SSR	1974	IDNAUS, LITHUANIAN SSR	SUN	55° 15'	SUN	24° 20E	110	S	6.37	B4	78.0	42cm, 28m, 110w		
36,300-74B6690,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	5.86	7.6	97.5			
36,300-74B670,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	5.77	7.6	96.0			
36,300-74B6710,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	5.76	7.6	97.0			
36,300-74B6720,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	7.02	**				
36,300-74B6730,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	7.21	**				
36,300-74B6740,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	6.15	7.6	99.5			
36,300-74B6750,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	6.57	7.6	94.5			
36,300-74B6760,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	6.12	7.6	96.0			
36,300-74B6770,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	6.46	7.6	98.5			
36,300-74B6780,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	6.37	7.6	96.0			
36,300-74B6790,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	5.43	7.6	94.0			
36,300-74B6800,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	6.15	7.6	99.0			
36,300-74B6810,0	1974 KAUNO, LITHUANIAN SSR	1974	KAUNO, LITHUANIAN SSR	SUN	54° 45'	SUN	24° 05E	100	N/A	7.71	7.6	94.0			
36,300-74B7360,0	1974 TURKEY	1974	TURKEY	TUR	N/A	N/A	N/A	N/A	N/A	8.20	B3	85.0			
36,300-75B1490,0	1975 TARTU REE FOR ESTONIAN OBLAST	1975	TARTU REE FOR ESTONIAN OBLAST	SUN	58° 22'	SUN	26° 40E	60	R	5.30	7/	90.0			
36,300-81B1100,0	1981 NOUDSBIRSKAYA OBLAST	1981	NOUDSBIRSKAYA OBLAST	SUN	55° 00'	SUN	80° 00E	N/A	R	6.82	**	91.0			
36,300-8-B1110,0	1981 KARITSKAYA OBLAST	1981	KARITSKAYA OBLAST	SUN	56° 00'	SUN	47° 00E	R	6.30	**	96.0				
36,300-81B1120,0	1981 MARYSKAYA OBLAST	1981	MARYSKAYA OBLAST	SUN	56° 00'	SUN	47° 00F	R	6.55	**	95.0				
36,300-81B1130,0	1981 TATARSKAYA ASSR	1981	TATARSKAYA ASSR	SUN	57° 00'	SUN	50° 00E	R	6.72	**	99.0				
36,300-81B1140,0	1981 VORONEZHSKAYA OBLAST	1981	VORONEZHSKAYA OBLAST	SUN	55° 00'	SUN	50° 00F	R	7.02	**	95.0				
36,300-81B1150,0	1981 ORLOVSKAYA OBLAST	1981	ORLOVSKAYA OBLAST	SUN	50° 30'	SUN	40° 00E	R	8.60	**	97.0				
36,300-81B1160,0	1981 KIEVSKAYA OBLAST	1981	KIEVSKAYA OBLAST	SUN	52° 30'	SUN	37° 00E	R	7.27	**	89.0				
36,300-81B1170,0	1981 KRASNOYARSKY KRAY	1981	KRASNOYARSKY KRAY	SUN	50° 30'	SUN	30° 30F	H	7.54	**	95.0				
36,300-81B1180,0	1981 KALININSKAYA OBLAST	1981	KALININSKAYA OBLAST	SUN	50° 00'	SUN	30° 00F	B	5.62	**	97.0				
36,300-81B1190,0	1981 SHOLHINSKAYA OBLAST	1981	SHOLHINSKAYA OBLAST	SUN	54° 00'	SUN	35° 00E	B	7.38	**	95.0				
36,300-81B1200,0	1981 GRODNOVSKAYA OBLAST	1981	GRODNOVSKAYA OBLAST	SUN	55° 00'	SUN	32° 00F	B	7.34	**	99.0				
36,300-81B1280,0	1981 KIRYL'IA	1981	KIRYL'IA	BFL	50° 50'	BFL	4.21E	H/A	R	8.79	R4	45.5			
(36,350) PINUS SYLVESTRIS var. KONGOLICA															
36,350-7393100,0	1970 PINUS THUNBECKII	1973	HEILONGJIANG PROV.	CHN	46° 00'	CHN	126° 00F	N/A	B	7.50	B3	84.0			
36,350-82BA6B0,0	1982 PINUS THUNBECKII	1982	HEILONGJIANG PROV.	CHN	48° 00'	CHN	125° 00E	N/A	5.65	B3	95.0	VIA DR. MURPHY			
(36,370) PINUS SYLVESTRIS var. RIGENSIS															
36,370-0080001,0	1983 RIGEN	1983	RIGEN	SUN	56° 53'	SUN	74° 04E	N/A	6.73	B4	83.0	VIA DR. MURPHY			
(36,600) PINUS THUNBECKII (Japanese black pine)															
36,600-74B4340,0	1974 AOKIJI PREFECTURE	1974	AOKIJI PREFECTURE	JPN	40° 47'	JPN	140° 20F	60	R	11.70	R4	67.0	32cm, 160+514		
(36,700) PINUS WILLEMIAE (Chinese black pine)															
36,700-0080002,0	1983 HIMALAYA	1983	HIMALAYA	N/A	N/A	N/A	N/A	N/A	42.12	R4	64.5	VIA DR. MURPHY			
(36,950) PLADYCLANIUS ORIENTALIS															
36,950-8330018,0	1983 N PELIKH TWP., FOMIHLI DNT	1983	N PELIKH TWP., FOMIHLI DNT	CAN	43.07	CAN	79.17	200	R(4)	20.4R	R3	66.0	EXOTIC, 6-10cm, 3-4m		

SEED LIST

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SEED BANK NUMBER	NURSERY NUMBER	YEAR	PROV	CTRY	LAT	LONG	FL/FU	COL	SEED	YEAR	Z.	REMARKS
				(in)	(in)	(in)	(in)	(in)	WEIGHT	TSTD	GERM	
(37,200) PLATANUS OCCIDENTALIS American plane (sycomore)												
37,200-B330642.0	1983 NIAGARA FALLS TWP.	ONT	CAN	43.03	79.08	B(10)	2.86	R4	12.0	70-40cm, R-15m, 50g.		
39,800-B3300015.0	1983 FONTHILL	ONT	CAN	43.01	79.18	S	97.6%	R4				FR100Z, 50cm, 15m
39,800-B330027.0	1983 SHERWOOD PK, TORONTO	ONT	CAN	43.43	79.23	S	127.4%	R4				FR100Z, 30cm, 12m
(40,200) PSEUDOTSUGA MENZELII (Douglas-fir)												
40,200-6470290.0	1964 QUEENSL	RC	CAN	73.14	122.30	R	9.50	75	85.6			
40,200-6671200.0	1966 EIK VOLLEY QUANDIQUER IS.	BC	CAN	49.45	125.50	R	9.57	R3	48.0			
40,200-6772340.0	1967 HELSON	RC	CAN	49.30	117.16	R	9.36	R3	65.0			
40,200-6772350.0	1967 FRANKLIN RIVER	RC	CAN	49.06	124.46	R	8.97	R3	73.0			
40,200-6782360.0	1967 PACKWOOD	WASH USA	USA	46.34	121.40	R	8.58	R3	23.0			
40,200-6782360.0	1968 FINE TAN	RC	CAN	50.45	119.35	R	10.89	R1	89.0			
40,200-6871090.0	1968 SHUSHWAP LAKE	RC	CAN	50.55	119.25	R	10.74	R1	88.5			
40,200-6871100.0	1969 HORSEFLY	BC	CAN	52.18	121.19	R	8.35	R3	62.0			
40,200-6971750.0	1969 EUGENE	OR USA	USA	44.01	123.23	S	10.97	R3	64.0			30cm, 1.8m
40,200-6981760.0	1969 HAPPY CAMP	CAI USA	USA	41.77	123.30	S	12.62	R3	58.0			8cm, 37m
40,200-6981770.0	1969 COALHOLE	CON USA	USA	38.20	105.50	B(50)	14.06	R3	76.0			
40,200-6981780.0	1969 CLEAR CREEK	NM USA	USA	36.03	106.50	B	12.41	R3	80.0			B(10-100)
40,200-6981790.0	1970 HADAHAT SUMMIT-VAN IS.	BC CAN	CAN	48.46	123.35	R	7.93	R4	85.0			
40,200-7072010.0	1971 ANGUS LAKE	BC CAN	CAN	51.26	119.28	R	8.94	R3	67.0			
40,200-7172040.0	1971 HOT CREEK	RC CAN	CAN	50.51	121.30	R	12.01	R3	52.7			
40,200-7175610.0	1973 JOHNSON LAKE	BC CAN	CAN	53.10	121.30	R	11.42	R3	27.0			
40,200-7373390.0	1973 GOLDEN	BC CAN	CAN	51.26	117.03	R	9.28	R3	26.0			
40,200-7373400.0	1976 ROCKY/CLEARWATER FOREST	AL TA CAN	CAN	52.10	116.24	S	6.20	**				SECOND KILN
40,200-7664150.1	1976 ROCKY/CLEARWATER FOREST	AL TA CAN	CAN	52.10	116.24	S	6.50	**				FIRST KILN
40,200-7664160.1	1979 THÄNEUS LAKE	BC CAN	CAN	52.10	116.24	S	5.25	**				FIRST KILN
40,200-7971820.0	1979 THROTHY LAKE	RC CAN	CAN	51.55	123.40	R	10.63	R3	91.0			6-18m, 50-200g
40,200-7973970.0	1983 THIRD LAKE	BC CAN	CAN	49.05	121.20	R	**					
40,200-8370637.0	1983 GASSITY	RC CAN	CAN	49.02	123.52	R	10.39	R4	97.0			9-18m, 25-35g
40,200-8370638.0	1983 GASSITY	RC CAN	CAN	49.02	123.52	R	9.46	R4	91.0			7-15m, 35-50g
(40,400) PSEUDOTSUGA RIMENSIS (Chinese fir-larch-pine)												
40,400-B283360.0	1982 KUI-CHAN PROVINCE	CHN	CHN	26.00	112.00E	1400	N/A	27.05	R4	22.0		
40,400-B283370.0	1982 SUNG-RIF-HSIEN HUNAN	CHN	CHN	26.02	112.00E	1400	N/A	27.05	R4	.1		
(40,500) PTELÉA TRIFOLIATA (Jack-forest)												
40,500-B330640.0	1983 FONTHILL	ONT	CAN	43.02	79.17	I	36.33	R4	15.5			HEAVY CROP
43,800-B330250.0	1982 TWP OF LINCOLN	ONT	CAN	43.10	79.29	I	18.70	R3	83.0	21cm, 11m, 34g		

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR CULT.	PROVENANCE	PROV	CTRY	LAT.	LONG.	FL/FU (COLL. (#))	TOLL.	SEED WEIGHT/ TYPE	YEAR TSTD	GERM	REMARKS
43,800-8330025,0		1983	CHORLEY FKR, TORONTO	ONT	CAN	43,41	79,23	122, R(3)	24,02	R4	55,0	R-15cm, 4-1.3m	
44,870-81B1310,0		1981	CALIFORNIA	CAI	USA			N/A	6,09	R4	76,5		
(46,200) THUJA OCCIDENTALIS (eastern white cedar)													
46,200-5830370,0	5 71-58	1958	P.F.F. & RESIN, AREA	ONT	CAN	46,00	77,27	N/A			84	48,0	RACE HORSE RAFTS
46,200-6030510,0	8 101-60	1960	FOR. EXP. STA.	ONT	CAN	45,55	77,28	N/A			84	83	
46,200-6730570,0		1967	LAKE DORE	ONT	CAN	45,32	77,07	175	B		1,15	12,0	
46,200-6731850,0		1967	PEL. FOR. EXP.	ONT	CAN	46,00	77,25	150	R		1,08	8,8	
46,200-7034350,0		1970	CRF ARBORETUM, OTTAWA	ONT	CAN	45,24	75,33	78	S		88		
46,200-8130230,0		1981	LAKE DORE	ONT	CAN	45,37	77,07	175	R(5)		87	83	13,0
46,200-8233290,0	S 23001	1982	GOLDEN LANE, RENFREW CO., ONT	ONT	CAN	45,35	77,14	B			1,16	84	73,0
(46,400) THUJA PLICATA (western red cedar)													
46,400-6581170,0	S 6093	1965	FRIEST RIVER, N. MNDN	TD	USA	48,20	116,50	660	N/A		88		
46,400-7272310,0		1972	CONJUCHAN LAKE, JS.	BC	CAN	48,50	124,00	75	R		1,22	83	19,0
46,400-7272330,0		1972	BC-400, VANCOUVER IS.	BC	CAN	50,11	125,48	430	R		1,15	83	39,0
46,400-7473000,0		1974	PINNING POINT, PARK	BC	CAN	49,10	120,55	1000	R(5)		88		
46,400-7473130,0		1974	SHUSHWAP 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	R(6)		88	84	41,0
46,400-8370634,0		1983	YEWLOW POINT	BC	CAN	49,03	123,48	61	B(15)		,90	84	40,5
(47,100) TILIA AMERICANA (American Linden)													
47,100-6430310,0		1964	LAKE DORE	ONT	CAN	45,38	77,04	B			xx		
47,100-6430380,0	S 228-64	1964	LAKE DORE, SOUTH SIDE	ONT	CAN	45,38	77,04	N/A			xx		
47,100-7031680,0		1970	CENTRE LAKE	ONT	CAN	45,57	77,30	S			xx		
47,100-7033180,0		1970	PEL. FOR. EXP. STATION	ONT	CAN	46,00	77,26	170	N/A		xx		
47,100-7034340,0		1970	CRYSTAL RAY, OTTAWA	ONT	CAN	45,22	75,52	65	S		123,35	xx	
47,100-8330010,0		1983	NIAGARA-ON-THE-LAKE	ONT	CAN	43,15	79,04	N/A			xx		
(47,300) TILIA CORNUTA (small-leaved lime)													
47,300-8232090,0		1982	OTTAWA	ONT	CAN	45,25	25,42	N/A			xx		
(47,450) TILIA PLATYPHYLLOS (large-leaved lime)													
47,450-8330009,0		1983	FONTHILL, ONR OFFICE	ONT	CAN	43,02	79,17	190	S		xx		
47,450-8330068,0		1983	PLEASANT CEMETERY	ONT	CAN	43,42	79,23	150	S		xx		
47,450-8330069,0		1983	MI. PLEASANT CEMETERY	ONT	CAN	43,42	79,23	150	S		xx		
(48,100) TSUGA CANADENSIS (eastern hemlock)													
48,100-64930310,0		1989	KIOSK	ONT	CAN	46,02	78,44	370	S		2,96	83	7,0
48,100-64930330,0		1969	KIOSK	ONT	CAN	46,02	78,44	370	S		2,11	83	7,0

SEED LIST

SEED BANK NUMBER	NURSERY NUMBER	YEAR	COLL	PROVENANCE	PROV	CTRY	LAT	LONG (°)	EL EV (m)	COLL.	SEED WEIGHT	TSTH	GERM	REMARKS
		1969	KIOSK		DNT	CAN	46°02'	78.44	370	S	3.29	83	68.0	
4B, 100-6930380,0		1969	KIOSK		DNT	CAN	46°02'	78.44	370	S	2.96	83	15.0	
4B, 100-6930410,0		1969	KIOSK		DNT	CAN	45°28'	77.17	240	S	3.67	83	B.0	
4B, 100-6930560,0		1969	CORPHAC		DNT	CAN	45°22'	78.16	460	R(10)	2.76	83	45.0	
4B, 100-R030660,0		1980	GLYDE TWP.											
(4B, 252) TSUGA CHINENSIS VAR TCHIKIANGENSIS														
4B, 252-B2B3300,0		1982	HUANG HIAN-LIU PROV.			CHN					N/a	2.23	84	6.0
(4B, 300) TSUGA DIVERSIFOLIA (Northern Japanese Hemlock)														
4B, 300-74B3B20,0		1974	GUANG PREFECTURE		JPN	36°30'	138.22F	1800	S		2.87	75	19.5	22cm, 18m, 100+
(4B, 350) TSUGA FORTICISSIMA														
4B, 350-B2B3310,0		1982	LI R., SU-TSUAN PROV.			CHN					N/a	4.25	84	20.0
(4B, 400) TSUGA HETEROPHYLLA (Glossy hemlock)														
4B, 400-7272030,0		1972	QUEEN CHARLOTTE ISLANDS		BC	CAN	51°35'	132.20	75	R	1.50	83	20.0	
4B, 400-7272260,0		1972	SODIE, VANDQUFER TS.		BC	CAN	48°22'	123.44	4	R	2.32	83	20.0	
4B, 400-7477330,0		1974	PARKSVILLE		BC	CAN	49.10	124.30	75	R	2.22	76	86.3	
(49, 100) ULMUS AMERICANA (White American Elm)														
49, 100-7830520,0		1978	FFORDKE		DNT	CAN	45.48	77.08	150	S	8.4	38.0		

APPENDICES
ANNEXES

- A. Key for Country Codes
Code des pays
- B. Key for province codes
Code des provinces

APPENDIX A
ANNEXE A

Key for country codes
Code des pays¹

<u>Country Code</u> <u>Code des pays</u>	<u>Meaning</u> <u>Signification</u>
AUT	AUSTRIA/AUTRICHE
BEL	BELGIUM/BELGIQUE
CAN	CANADA
CHN	CHINA/CHINE
CSK	CZECHOSLOVAKIA/TCHÉCOSLOVAQUIE
CUB	CUBA
DEU	WEST GERMANY/RÉPUBLIQUE FÉDÉRALE D'ALLEMAGNE
DNK	DENMARK/DANEMARK
ENG	ENGLAND/ANGLETERRE
FIN	FINLAND/FINLANDE
FRA	FRANCE
JPN	JAPAN/JAPON
MEX	MEXICO/MEXIQUE
PAK	PAKISTAN
POL	POLAND/POLOGNE
ROM	ROMANIA/ROUMANIE
SCO	SCOTLAND/ÉCOSSE
SUN	USSR/URSS
SWE	SWEDEN/SUÈDE
TUR	TURKEY/TURQUIE
USA	UNITED STATES/ÉTAS-UNIS

¹from International Organization for Standardization (1981).

APPENDIX B
ANNEXE B

Key for province and state codes
Code des provinces et des Etats Américains

<u>Province code</u> <u>Code des provinces</u>	<u>Meaning</u> <u>Signification</u>
ALAS	ALASKA
ALTA	ALBERTA
BC	BRITISH COLUMBIA/COLOMBIE-BRITANNIQUE
CAL	CALIFORNIA
COLO	COLORADO
GA	GEORGIA
ID	IDAHO
MAN	MANITOBA
ME	MAINE
MICH	MICHIGAN
MINN	MINNESOTA
MONT	MONTANA
NB	NEW BRUNSWICK/NOUVEAU-BRUNSWICK
NFLD	NEWFOUNDLAND/TERRE-NEUVE
NM	NEW MEXICO
NS	NOVA SCOTIA/NOUVELLE-ÉCOSSE
NWT	NORTHWEST TERRITORIES/TERRITOIRES DU NORD-OUEST
NY	NEW YORK
ONT	ONTARIO
OR	OREGON
PEI	PRINCE EDWARD ISLAND/ÎLE-DU-PRINCE-ÉDOUARD
QUE	QUÉBEC
SASK	SASKATCHEWAN
WASH	WASHINGTON
WYO	WYOMING
YT	YUKON TERRITORY/TERRITOIRE DU YUKON

PETAWAWA NATIONAL FORESTRY INSTITUTE

The Petawawa National Forestry Institute (PNFI) was formed on April 1, 1979, as the result of an amalgamation of the Petawawa Forest Experiment Station with the Ottawa-based Forest Management and Forest Fire Research Institutes. The Forestry Statistics and Systems Branch was established at PNFI in 1980.

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. Because it is a national institute, particular emphasis is placed on problems that transcend regional boundaries or that require special expertise and expensive 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.

Research at the Institute is in two main areas:

FIRE RESEARCH AND REMOTE SENSING. Every year in Canada large areas of productive forest are destroyed by fire. Research concentrates on studies of forest fire behaviour, the development of new methods of fire control, the evaluation of fire-fighting equipment and retardants, and the development of computerized fire management systems that are rapidly finding applications with fire-fighting agencies across the country. The environmental and economic impact of forest fires and the use of fire as a silvicultural tool for intensive forest management are also studied.

In remote sensing, investigations are made into the application of modern satellite and airborne remote sensing systems to forestry problems. In this respect, the ARIES digital image analysis system is proving invaluable.

INTENSIVE FOREST MANAGEMENT. As Canada moves into more intensive management of its forest to meet expected increases in demand for this vital resource, the role of this program will become increasingly important. An extensive reforestation program will require a steady supply of high-quality seed of the desired species. Improved growing stock, obtained through tree breeding and forest genetics research, is highly desirable. Increased emphasis is being placed on using the entire above-ground portion of the tree (biomass), but the effect on the environment of this and other forms of intensive management has to be carefully monitored. Biotechnological methods of improving yield while maintaining site productivity are being investigated.

In support of its research programs, the Institute has at its disposal a 98 km² area of forest in the western part of the Petawawa military reserve. Records of experiments and sample plots have been maintained since the 1920s. The forest also serves as a field laboratory for students from local schools, and a visitor centre is operated during the summer months.

The operations of PNFI also includes THE FORESTRY STATISTICS AND SYSTEMS BRANCH (FSSB) which is responsible for the acquisition and publication of national information on the forests of Canada. Through the Canadian Forest Inventory Committee, which is comprised of provincial and federal forestry officials, the FSSB works in close cooperation with provincial forest agencies to improve and standardize the information available on Canada's forest resources.

Through the FORSTATS program, which involves all regional establishments of the Canadian Forestry Service, the FSSB coordinates the acquisition and publication within the CFS of national statistics on the forests of Canada.

Every five years, the FSSB publishes Canada's Forest Inventory; the official report on the location, extent, species, and condition of the forest resource. In addition, the FSSB is working closely with the provinces to expand the information available on changes to the forest from fire, harvesting, insects, and disease and from forest management activities. This information is essential to the development of sound policies for the improved management of this important and renewable natural resource.