

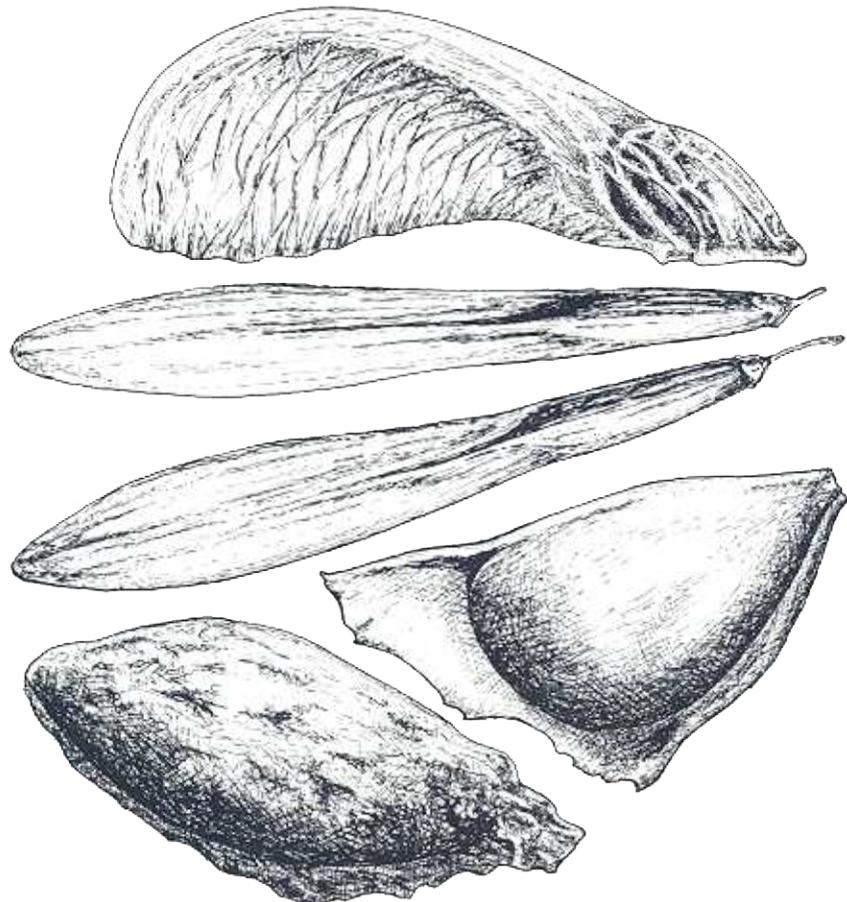


## 1991 Seed List Forestry Canada National Seed Bank

B.S.P. Wang and B. Kelley  
Petawawa National Forestry Institute • Information Report PI-X-109E/F

## Liste des semences forestières - 1991 : Banque nationale de semences de Forêts Canada

B.S.P. Wang et B. Kelley  
Institut forestier national de Petawawa • Rapport d'information PI-X-109E/F



**1991 SEED LIST: FORESTRY CANADA NATIONAL SEED BANK/  
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BANQUE NATIONALE DE SEMENCES DE FORÊTS CANADA**

B.S.P. Wang and/et B. Kelley

Information Report/Rapport d'information PI-X-109E/F  
Petawawa National Forestry Institute/Institut forestier national de Petawawa  
Forestry Canada/Forêts Canada  
1992

©Minister of Supply and Services Canada 1992  
Catalogue No. Fo46-11/109-1992  
ISBN 0-662-58756-1  
Printed in Canada

Copies of this publication may be obtained free of charge  
from the following address:

Forestry Canada  
National Publications Distribution Centre  
Petawawa National Forestry Institute  
Chalk River, Ontario K0J 1J0

Telephone: (613) 589-2880

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N° de catalogue Fo46-11/109-1992  
ISBN 0-662-58756-1  
Imprimé au Canada

Il est possible d'obtenir sans frais des exemplaires de cette  
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Forêts Canada  
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Chalk River (Ontario) K0J 1J0

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165, rue Hôtel-de-Ville  
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CANADIAN CATALOGUING IN PUBLICATION DATA

Petawawa National Forestry Institute

Seed list, Forestry Canada National Seed Bank =  
Liste des semences forestières, Banque nationale  
de semences de Forêts Canada

1991.  
(Information report ; PI-X-109E/F)  
Text in English and French.  
Includes bibliographical references.  
Key title: Seed list, Forestry Canada National  
Seed Bank.  
ISSN 1188-4150  
DSS cat. no. Fo46-11/109

1. Trees — Seeds — Catalogs. 2. Petawawa  
National Forestry Institute — Catalogs.  
I. Title. II. Title: Liste des semences  
forestières, Banque nationale de semences de  
Forêts Canada. III. Series: Information report  
(Petawawa National Forestry Institute) ; PI-X-109E/F.

DONNÉES DE CATALOGAGE AVANT PUBLICATION (CANADA)

Institut forestier national de Petawawa

Seed list, Forestry Canada National Seed Bank =  
Liste des semences forestières, Banque nationale  
de semences de Forêts Canada

1991.  
(Rapport d'information ; PI-X-109E/F)  
Texte en anglais et en français.  
Comprend des références bibliographiques.  
Key title: Seed list, Forestry Canada National  
Seed Bank.  
ISSN 1188-4150  
N° de cat. MAS Fo46-11/109

1. Arbres — Semences — Canada — Catalogues.  
2. Institut forestier national de Petawawa —  
Catalogues. I. Titre. II. Titre: Liste  
des semences forestières, Banque nationale de  
semences de Forêts Canada. III. Coll.: Rapport  
d'information (Institut forestier national de  
Petawawa) ; PI-X-109E/F.

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## ABSTRACT

Information is given on the native and exotic forest tree and shrub seed available for research purposes from the Forestry Canada Seed Bank at the Petawawa National Forestry Institute. It supersedes Forestry Canada's Information Report PI-X-58E/F. Reference is made to the procurement of seed and the maintenance of seed quality.

## RÉSUMÉ

Ce rapport fournit des renseignements sur les semences d'arbres et arbustes, indigènes ou exotiques, que l'on peut se procurer pour fins de recherches à la Banque de semences de Forêts Canada, à l'Institut forestier national de Petawawa. Le présent document succède au rapport d'information PI-X-58E/F. La façon de procurer les semences et de maintenir leur qualité est indiquée.



## 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 and biotechnology 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. This report supersedes Information Report PI-X-58E/F (Janas 1985).

## SEED PROCUREMENT

The seedlots described in the attached list have been procured in several ways. Some collections were made by PNFI staff and others by cooperators in the Forestry Canada regional research centres, provincial forest services, forest industries, and other federal agencies. Some seedlots were procured through exchange with foreign agencies or purchased from seed dealers in Canada and abroad.

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

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

## SEED QUALITY

Proper control of seed quality will minimize confounding effects 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 careful handling and curing of cones and fruit, as well as 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 Forestry Canada's regional research centres across Canada.

## INTRODUCTION

Comme la recherche forestière est une activité de longue haleine et souvent coûteuse, il importe que seules les semences d'origine et de qualité connues servent aux essais sur les espèces, à l'amélioration génétique des arbres, aux études en biotechnologie et aux autres expériences de nature sylvicole. Pour ce faire, le Centre national de semences forestières à l'IFNP (Institut forestier national de Petawawa) veille à garder des semences dans les chambres frigorifiques et obtient de différents organismes des graines d'essences très variées et de pays très divers. Le présent rapport montre comment les chercheurs, par l'intermédiaire de la Banque de semences, peuvent se procurer ces semences d'arbres et arbustes forestiers indigènes ou exotiques. Ce document succède à l'édition antérieure (PI-X-58E/F; Janas, 1985).

## OBTENTION DES SEMENCES

Les lots de semences décrits dans la liste ci-jointe ont été obtenus de plusieurs façons. Quelques-uns ont été fournis par l'IFNP, d'autres par des collaborateurs des centres de recherches régionaux de Forêts Canada ou des services forestiers provinciaux, des industries forestières et d'autres organismes fédéraux. Quelques lots proviennent des échanges avec des organismes étrangers ou bien furent achetés des commerçants aux marchés canadiens et internationaux.

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

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

## QUALITÉ DES SEMENCES

Un contrôle adéquate 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

## 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, we list only those that have seeds with a demonstrated ability to retain viability over a number of years of storage in the facilities available. Seeds that are difficult to store (e.g., *Acer saccharinum*, *Juglans nigra*, and *Quercus* spp.) can be provided by special collection upon request. The list is arranged in alphabetical order by genus, species, and variety. Nomenclature is based on Native Trees of Canada (Hosie 1979) for native species and, as far as possible, the Manual of cultivated trees and shrubs hardy in North America (Rehder 1940) for exotic species. The abbreviation for country of origin was based on the ISI codes (1981).

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 numbers of seedlings to be raised. The required amount of seeds will be calculated and despatched accordingly. Alternative selections should also be provided.

## ACKNOWLEDGMENTS

We thank Mr. E.L. Gilchrist, technician in charge of seed collection and processing, for his assistance and cooperation, and many cooperators in Canada and abroad for seed procurement.

de semences forestières, on exerce ce contrôle de manière soucieuse dès la récolte, en le poursuivant tout au long du processus de manutention, de traitement et de soins des cônes, des semences ou des fruits (Wang, 1973). Les lots de la Banque de semences constituent entre autre un matériel biologique de choix pour la recherche sur les provenances. Dans plusieurs cas, ils ont été préparés en collaboration avec des généticiens des centres de recherches de Forêts Canada à travers le pays.

## UTILISATION DE LA LISTE DES SEMENCES

Les essences dont les semences sont en banque apparaissent dans la section «Liste des essences», chacune ayant son 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 (par ex. *Acer saccharinum*, *Juglans nigra* et *Quercus* spp.) une récolte spéciale pourra être faite sur demande. Les semences sont d'abord classées par ordre alphabétique selon le genre, l'espèce et la variété. La nomenclature adoptée est celle des Arbres indigènes du Canada (Hosie, 1980) en ce qui concerne les espèces indigènes et, dans la mesure du possible, celle du Manual of cultivated trees and shrubs hardy in North America (Rehder, 1940) pour les espèces exotiques. Pour les abréviations des noms de pays d'origine on s'est servi des codes des noms de pays établis par l'Organisation internationale de la normalisation (ISO, 1981).

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 les «Abréviations pour la liste des semences») ainsi que sa latitude, sa longitude et son altitude. Lorsqu'il 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 le nombre de semis que l'on veut faire croître. Ensuite, nous calculerons le nombre correspondant de semences qui en est nécessaire.

Veuillez aussi spécifier d'autres choix au cas où certains lots seraient épuisés.

#### REMERCIEMENTS

Nous remercions vivement M. E.L. Gilchrist, technicien chargé de collecte et de traitement de graines, pour son aide et coopération, de même que les nombreux coopérants au Canada et à l'étranger qui ont contribué à la collection de semences forestières.

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**Species listing/Liste des essences**

## Species List/Liste des essences

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
<i>Abies alba</i>	European silver fir	sapin blanc	2
<i>Abies amabilis</i>	amabilis (Pacific silver) fir	sapin gracieux	3
<i>Abies balsamea</i>	balsam fir	sapin beaumier	33
<i>Abies fraseri</i>	Fraser fir	sapin de Fraser	1
<i>Abies grandis</i>	grand fir	sapin grandissime	8
<i>Abies homolepis</i>	Nikko fir	sapin de Nikko (sapin à courtes feuilles)	1
<i>Abies lasiocarpa</i>	alpine fir	sapin subalpin	8
<i>Abies nephrolepis</i>	east Siberian fir	sapin de Sibérie orientale	1
<i>Abies sachalinensis</i>	Sachalin fir	sapin de Sakhalin	2
<i>Abies veitchii</i>	veitch fir	sapin de Veitch	2
<i>Acer barbinerve</i>			1
<i>Acer ginnala</i>	amur maple	érable ginnala	1
<i>Acer glabrum</i> var. <i>douglasii</i>	douglas maple	érable nain	3
<i>Acer macrophyllum</i>	bigleaf (Oregon) maple	érable grandifolié	4
<i>Acer mono</i>	painted mono maple	érable coloré	1
<i>Acer negundo</i>	Manitoba maple; box-elder	érable négundo	2
<i>Acer pensylvanicum</i>	striped maple; moosewood	érable de Pennsylvanie	3
<i>Acer platanoides</i>	Norway maple	érable de Norvège (érable platanoïde)	5
<i>Acer pseudoplatanus</i>	sycamore maple	érable sycomore	2
<i>Acer pseudosieboldianum</i>			1
<i>Acer rubrum</i>	red (soft) maple	érable rouge	42
<i>Acer saccharum</i>	sugar (hard) maple	érable à sucre	2
<i>Acer spicatum</i>	mountain maple	érable à épis	4
<i>Acer tataricum</i>	Tatarian maple	érable de Tartarie	1
<i>Acer tegmentosum</i>			1
<i>Acer ukurunduense</i>			1
<i>Alnus cordata</i>	Italian alder	aulne d'Italie	3
<i>Alnus cremastogyne</i>			1
<i>Alnus crispa</i>	American green alder	aulne vert d'Amérique	44
<i>Alnus firma</i> Sieb. et Zucc.			2
<i>Alnus glutinosa</i>	black alder	verne (aulne noir)	11
<i>Alnus hirsuta</i>	Manchurian alder	aulne de Mandchourie	2
<i>Alnus hirsuta</i> turcz. var. <i>microphylla</i> Nakai			1
<i>Alnus incana</i>	grey (European) alder	aulne blanc	4
<i>Alnus japonica</i>			1
<i>Alnus jorullensis</i>			1
<i>Alnus nepalensis</i>			1
<i>Alnus rubra</i>	red (Oregon) alder	aulne rouge	60
<i>Alnus rugosa</i>	speckled alder	aulne rugueux	48
<i>Alnus sinuata</i>	sitka alder	aulne de sitka	23
<i>Alnus tenuifolia</i>	mountain alder	aulne à feuilles minces	14
<i>Alnus viridis</i>	green alder	aulne vert (aulne des Alpes)	3
<i>Austrocedrus chilensis</i>	Chilian cedar	cèdre du Chili	3
<i>Betula alleghaniensis</i>	yellow birch	bouleau jaune	45
<i>Betula kirghisorum caucasus</i>			1
<i>Betula lenta</i>	cherry birch	bouleau flexible	1
<i>Betula occidentalis</i>	water (black) birch	bouleau fontinal (bouleau d'eau)	2
<i>Betula papyrifera</i>	white (paper) birch	bouleau à papier	24
<i>Betula pendula</i>	silver (weeping) birch	bouleau pleureur	19
<i>Betula platyphylla</i>	Asian (Japanese) white birch	bouleau à larges feuilles	2
<i>Betula populifolia</i>	grey birch	bouleau gris	1
<i>Betula pubescens</i>	downy birch	bouleau pubescent	7
<i>Betula raddeana caucasus</i>			1
<i>Caragana arborescens</i>	Siberian pea-shrub; pea-tree	arbre aux pois	4
<i>Carpinus caroliniana</i>	blue-beech; hornbeam	charme de Caroline (charme d'Amérique)	2
<i>Carya cordiformis</i>	bitternut hickory	caryer cordiforme	1
<i>Carya glabra</i>	pignut hickory	caryer glabre	2
<i>Carya ovata</i>	shagbark hickory	caryer ovale	2

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
<i>Catalpa speciosa</i>	catalpa	catalpa	1
<i>Cercis canadensis</i>	redbud	gainier rouge (gainier du Canada)	1
<i>Chacaya trinervis</i>			1
<i>Chamaecyparis lawsoniana</i>	Port-Orford-cedar; lawson cypress	cyprès de Lawson	1
<i>Chamaecyparis nootkatensis</i>	yellow cypress; Alaska cedar	cyprès jaune	2
<i>Fagus grandifolia</i>	American beech	hêtre à grandes feuilles (hêtre d'Amérique)	6
<i>Fagus sylvatica</i>	European beech	hêtre européen (fayard)	1
<i>Fitzroya cupressoides</i>	Patagonian cypress	cyprès de Patagonie (Alerce)	1
<i>Fraxinus americana</i>	white ash	frêne blanc (d'Amérique)	73
<i>Fraxinus chinensis</i>	Chinese ash	frêne de Chine	1
<i>Fraxinus excelsior</i>	European ash	grand frêne	2
<i>Fraxinus nigra</i>	black (swamp) ash	frêne noir	9
<i>Fraxinus pennsylvanica</i>	red ash	frêne rouge	70
<i>Juglans cinerea</i>	butternut	noyer cendré	3
<i>Juglans nigra</i>	black walnut	noyer noir	2
<i>Juniperus communis</i>	common juniper	genévrier commun	2
<i>Juniperus virginiana</i>	eastern red cedar; juniper	genévrier rouge	4
<i>Koelreuteria paniculata</i>	goldenrain tree	arbre à vernis de Chine (arbre à pluie d'or)	1
<i>Keteleeria chien-peii flous</i>			1
<i>Larix decidua</i>	European larch	mélèze d'Europe	13
<i>Larix decidua</i> var. <i>sudetica</i>			1
<i>Larix eurolepis</i>	Dunkeld larch	mélèze de Dunkeld	6
<i>Larix gmelini</i>	Dahurian larch	mélèze de Dahurie	5
<i>Larix laricina</i>	tamarack; eastern larch	mélèze laricin (ou d'Amérique)	21
<i>Larix leptolepis</i>	Japanese larch	mélèze du Japon	11
<i>Larix occidentalis</i>	western larch	mélèze occidental	2
<i>Larix sibirica</i>	Siberian larch	mélèze de Sibérie	1
<i>Liriodendron tulipifera</i>	tulip-tree; yellow poplar	tulipier d'Amérique	2
<i>Magnolia acuminata</i>	cucumber-tree	magnolier acuminé	1
<i>Maytenus boaria</i>			2
<i>Nothofagus dombeyi</i>	Dombey's southern beech	merisier du Chili	3
<i>Nothofagus nervosa</i>			2
<i>Nothofagus obliqua</i>	roble beech	roble	3
<i>Nothofagus pumilio</i>	lenga; roble blanco		1
<i>Ostrya virginiana</i>	ironwood; hop-hornbeam	ostryer de Virginie	2
<i>Paulownia fargesii</i>	Farges paulownia	paulownia de Farges	1
<i>Picea abies</i>	Norway spruce	épinette (épicéa) de Norvège	49
<i>Picea asperata</i>	dragon spruce; Chinese spruce	épicéa de Chine	1
<i>Picea engelmannii</i>	Engelmann spruce	épinette (épicéa) d'Engelmann	7
<i>Picea glauca</i>	white spruce	épinette blanche (épicéa blanc)	772
<i>Picea glehnii</i>	Sakhalin spruce	épinette (épicéa) de Sakhaline	1
<i>Picea jezoensis</i>	Hondo (Yeddo) spruce	épicéa de Yédo	1
<i>Picea jezoensis</i> var. <i>microsperma</i>			1
<i>Picea koraiensis</i> ( <i>Picea koyamai</i> )	Koyama spruce	épinette (épicéa) de Koyama	3
<i>Picea mariana</i>	black spruce	épinette noire (épicéa noir)	67
<i>Picea omorika</i>	Serbian spruce	épicéa de Serbie	1
<i>Picea orientalis</i>	oriental spruce	épicéa d'Orient	1
<i>Picea pungens</i> var. <i>glauca</i>	Colorado blue spruce	épinette (épicéa) du Colorado	3
<i>Picea rubens</i>	red spruce	épinette (épicéa) rouge	28
<i>Picea schrenkiana</i>	Schrenk's spruce	épinette (épicéa) de Schrenk	2
<i>Picea sitchensis</i>	Sitka spruce	épinette (épicéa) de Sitka	28
<i>Picea wilsonii</i>	Wilson spruce	épinette (épicéa) de Wilson	1

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
<i>Pinus albicaulis</i>	whitebark (scrub) pine	pin albicaule	2
<i>Pinus banksiana</i>	jack pine	pin gris	51
<i>Pinus bungeana</i>	lacebark pine	pin Napoléon (pin à écorce en dentelles)	1
<i>Pinus caribaea</i> var. <i>caribaea</i>	Caribbean pine	pin des Caraïbes	2
<i>Pinus caribaea</i> var. <i>hondurensis</i>			1
<i>Pinus cembra</i>	Swiss stone pine (Arolla pine)	Arolle (pin cembro)	4
<i>Pinus cembra</i> var. <i>sibirica</i>	Siberian Swiss stone pine	pin cembro de Sibérie	2
<i>Pinus contorta</i> var. <i>contorta</i>	shore pine	pin torde	3
<i>Pinus contorta</i> var. <i>latifolia</i>	lodgepole pine	pin lodgepole	61
<i>Pinus contorta</i> var. <i>murrayana</i>			1
<i>Pinus coulteri</i>	big-cone (Coulter) pine	pin de Coulter (pin à gros cônes)	1
<i>Pinus densata</i>			1
<i>Pinus densiflora</i>	Japanese red pine	pin rouge du Japon	4
<i>Pinus elliotii</i>	slash pine (American pitch pine)	pitchpin américain	1
<i>Pinus halepensis</i>	Aleppo pine (Jerusalem pine)	pin d'Alep (pin de Jérusalem)	1
<i>Pinus heldreichii</i> var. <i>leucodermis</i>			1
<i>Pinus kesiya</i>			2
<i>Pinus koraiensis</i>	Korean pine	pin de Corée	1
<i>Pinus lambertiana</i>	sugar pine	pin à sucre (pin de Lambert)	1
<i>Pinus merkusii</i>			2
<i>Pinus monticola</i>	western white (silver) pine	pin argenté	10
<i>Pinus mugo</i> var. <i>pumilio</i>			1
<i>Pinus mugo</i> var. <i>rostrata</i>	tree Swiss pine	pin à crochets	1
<i>Pinus muricata</i>	bishop pine	pin de Bishop (pin de Californie)	1
<i>Pinus nigra</i>	Austrian pine	pin d'Autriche	8
<i>Pinus nigra</i> var. <i>koekelare</i>			1
<i>Pinus oocarpa</i>			3
<i>Pinus pumila</i>	dwarf Siberian pine	pin nain de Sibérie	2
<i>Pinus resinosa</i>	red (Norway) pine	pin rouge (pin d'Amérique)	40
<i>Pinus rigida</i>	pitch pine	pin rigide	47
<i>Pinus roxburghii</i>	long-leaved Indian pine, chir pine	pin asiatique à longues aiguilles (pin Emodi)	1
<i>Pinus sibirica</i>			4
<i>Pinus strobus</i>	southwestern white pine		1
<i>Pinus strobus</i> var. <i>chiapensis</i>	eastern white (Weymouth) pine	pin blanc	102
<i>Pinus sylvestris</i>	Scotch (Scots) pine	pin sylvestre	52
<i>Pinus sylvestris</i> var. <i>mongolica</i>			4
<i>Pinus sylvestris</i> var. <i>rigensis</i>	Riga pine	pin de Riga	1
<i>Pinus tabulaeformis</i>	Chinese pine	pin de Chine	2
<i>Pinus thunbergii</i>	Japanese black pine	pin noir du Japon	3
<i>Pinus wallichiana</i>	Himalayan (Bhutan) pine	pin de l'Himalaya (pin du Bhoutan)	3
<i>Platycladus orientalis</i>			1
<i>Platanus occidentalis</i>	American plane (sycamore)	platane occidental	1
<i>Populus deltoides</i> var. <i>occidentalis</i>	plains cottonwood		2
<i>Populus grandidentata</i>	largetooth aspen	peuplier à grands dents	5
<i>Populus tremuloides</i>	trembling aspen	peuplier faux-tremble	6
<i>Prunus avium</i>	mazzard	merisier (cerisier des oiseaux)	1
<i>Prunus pensylvanica</i>	pin cherry	petit merisier	1
<i>Prunus serotina</i>	black cherry	cerisier tardif	3
<i>Pseudotsuga menziesii</i>	douglas-fir	douglas taxifolié (sapin de Douglas)	11
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	interior douglas-fir	douglas bleu (sapin bleu de Douglas)	7
<i>Ptelea trifoliata</i>	hop-tree	ptélée trifolié	1

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
<i>Rhamnus frangula</i>	glossy buckthorn	bourgène, nerprun noir (nerprun bourdaine)	1
<i>Robinia pseudoacacia</i>	black locust	acacia blanc (robinier faux acacia)	4
<i>Sabin chinensis</i>			
<i>Sambucus nigra</i>	European elder	sureau noir (sureau d'Europe)	1
<i>Sambucus racemosa</i>	European red elder	sureau rouge	1
<i>Schinus patagonicus</i>			
<i>Sequoiadendron giganteum</i>	giant sequoia	séquoiadendron (séquoia géant de Californie)	1
<i>Sorbus americana</i>	American mountain ash	sorbier d'Amérique	1
<i>Sorbus aucuparia</i>	European mountain ash; Rowan tree	sorbier des oiseleurs	1
<i>Thuja occidentalis</i>	eastern white cedar	thuya occidental	16
<i>Thuja plicata</i>	western red cedar	thuya géant	5
<i>Tilia americana</i>	basswood; American linden	tilleul d'Amérique	5
<i>Tilia x euchlora</i>	Crimean linden	tilleul de Crimée	1
<i>Tsuga canadensis</i>	eastern hemlock	pruche du Canada	10
<i>Tsuga heterophylla</i>	western hemlock	pruche occidentale	4
<i>Tsuga mertensiana</i>	mountain hemlock	pruche subalpine (pruche/tsuga de Mertens)	4
<i>Ulmus americana</i>	white (American) elm	orme (blanc) d'Amérique	6
<i>Ulmus glabra</i>	Scotch elm	orme de montagne	1
<i>Ulmus laevis</i>	European white elm	orme diffus (lisse)	1
<i>Viburnum opulus</i>	European cranberry	viorne obier	1

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

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**LEGEND FOR PNFI SEED LIST/  
ABRÉVIATIONS POUR LA LISTE DES SEMENCES DE L'IFNP**

Column Name/ Nom de la colonne	Meaning/ Signification
SEED BANK NUMBER	<ul style="list-style-type: none"> <li>• Seed bank number assigned to an individual seedlot by the National Tree Seed Centre</li> <li>• Numéro assigné à un lot de semences en banque par le Centre national de semences forestières</li> </ul>
YEAR COLL	<ul style="list-style-type: none"> <li>• Year of collection</li> <li>• Année de la récolte</li> </ul>
PROVENANCE	<ul style="list-style-type: none"> <li>• Usually the name of the nearest identifiable geographic location to a collection site</li> <li>• Habituellement, le nom de l'endroit géographique identifiable situé le plus près du lieu de la récolte</li> </ul>
PV	<ul style="list-style-type: none"> <li>• Canadian province or American state (consult Appendix B for full name)</li> <li>• Province canadienne ou État américain (consulter l'annexe B pour le nom complet)</li> </ul>
CTRY	<ul style="list-style-type: none"> <li>• Official country code (see Appendix A)</li> <li>• Code officiel du pays (voir l'annexe A)</li> </ul>
LAT	<ul style="list-style-type: none"> <li>• Latitude of collection in degrees and minutes</li> <li>• Latitude du lieu de la récolte en degrés et minutes</li> </ul>
LONG	<ul style="list-style-type: none"> <li>• Longitude of collection in degrees and minutes</li> <li>• Longitude du lieu de la récolte en degrés et minutes</li> </ul>
ELEV	<ul style="list-style-type: none"> <li>• Elevation of collection in metres</li> <li>• Altitude du lieu de la récolte en mètres</li> </ul>
COLL TYPE	<ul style="list-style-type: none"> <li>• 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; 'SQ' indicates squirrel collection (pertaining to <i>Pinus rigida</i>); N/A: not applicable</li> <li>• Type de récolte : 'S' signifie la récolte sur un seul arbre; 'B' indique une récolte générale ou en grande quantité sur plus d'un arbre, ( ) indique le nombre d'arbres sur lesquels on a récolté les semences; 'SQ' indique une récolte par des écureuils (en cas de <i>Pinus rigida</i>); N/A : veut dire «sans objet»</li> </ul>
1000 SdWt	<ul style="list-style-type: none"> <li>• Average weight in grams of 1000 seeds</li> <li>• Poids moyen (en grammes) de 1000 semences</li> </ul>
YEAR TEST	<ul style="list-style-type: none"> <li>• Year of most recent germination test</li> <li>• Année du test de germination le plus récent</li> </ul>
% GERM	<ul style="list-style-type: none"> <li>• Result from most recent germination test; if blank, no germination information is available</li> <li>• Résultat du test de germination le plus récent; un espace vide signifie que l'on ne dispose pas de renseignements sur la germination</li> </ul>
A.F.E.S.	<ul style="list-style-type: none"> <li>• Acadia Forest Experiment Station</li> <li>• Station d'expérimentation forestière</li> </ul>
P.N.F.I.	<ul style="list-style-type: none"> <li>• Petawawa National Forestry Institute</li> <li>• Institut forestier national de Petawawa (IFNP)</li> </ul>
C.F.B.	<ul style="list-style-type: none"> <li>• Canadian Forces Base</li> <li>• Base des Forces canadiennes</li> </ul>
SPECIES	<ul style="list-style-type: none"> <li>• Species code</li> <li>• Code d'essence</li> </ul>

Column Name/ Nom de la colonne	Meaning/ Signification
<b>REMARKS/REMARQUES</b>	
PL	<ul style="list-style-type: none"> <li>• indicates seed collected from planted tree source is given if available</li> <li>• signifie que les graines sont obtenues d'un arbre planté; la source est donnée si elle est disponible</li> </ul>
First kiln = Étuve - une fois	<ul style="list-style-type: none"> <li>• seed extracted after cones processed in kiln one time</li> <li>• signifie que les graines sont extraites après que les cônes eurent été traités une fois en étuve</li> </ul>
Second kiln = Étuve - deux fois	<ul style="list-style-type: none"> <li>• seed extracted after cones processed in kiln twice</li> <li>• signifie que les graines sont extraites après que les cônes eurent été traités deux fois en étuve</li> </ul>
Third kiln = Étuve - trois fois	<ul style="list-style-type: none"> <li>• seed extracted after cones processes in kiln three times</li> <li>• signifie que les graines sont extraites après que les cônes eurent été traités trois fois en étuve</li> </ul>
GPC	<ul style="list-style-type: none"> <li>• gene pool conservation</li> <li>• conservation des pools géniques</li> </ul>
RF	<ul style="list-style-type: none"> <li>• reserved in the freezer</li> <li>• conservé au congélateur</li> </ul>
INT. SP	<ul style="list-style-type: none"> <li>• introduced species</li> <li>• essences étrangères</li> </ul>
RSB	<ul style="list-style-type: none"> <li>• reserved in the Seed Bank on special request</li> <li>• réservé dans la Banque de semences forestières, disponible sur demande spéciale</li> </ul>
Imp., Improved	<ul style="list-style-type: none"> <li>• improved species</li> <li>• essence améliorée</li> </ul>
Mostly hybrid	<ul style="list-style-type: none"> <li>• mostly hybrid species</li> <li>• essences hybrides en majorité</li> </ul>
New cones	<ul style="list-style-type: none"> <li>• new cones</li> <li>• jeunes cônes</li> </ul>
Old cones	<ul style="list-style-type: none"> <li>• old cones</li> <li>• cônes mûrs</li> </ul>



## Seed List/Liste des semences

SEED BANK NUMBER	YEAR GILL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COL TYPE	1000 SEED TEST	YEAR TEST	GERM %	REMARKS
<b>SPECIES 1,100 ABIES ALBA (European silver fir)</b>												
B0006,0	1983	BERARDIER MARGERIDE	FRA	FRA	48°04'	6°53'E	N/A	40,52	1991	23.5		
B380643,0	1983	MOUNTAINS	FRA	FRA	45°00'	3°30'E	N/A	43,95	1990	18.5		
<b>SPECIES 1,200 ABIES AMABILIS (Cannabina) (Pacific silver fir)</b>												
8370636,0	1983	TAYLOR RIVER	BC	CAN	49°19'	125°28'	250 m(10)	25,96	1990	20.5		
8570209,0	1985	VALENTINE	BC	CAN	49°37'	121°05'	N/A	47,80	1990	46.5		
8871104,0	1988	FALL LAKES	BC	CAN	49°37'	121°05'	D	44,84	1991	59.2		
<b>SPECIES 1,300 ABIES BALANSIA (Balansa fir)</b>												
6632380,0	1966	P.N.F.I.	ON	CAN	45°58'	77°24'	160	3	9,18	1990	13.8	
7034180,0	1970	OTTAWA	ON	CAN	45°25'	75°34'	67	5	7,82	1984	31.0	
7034190,0	1970	OTTAWA	ON	CAN	45°25'	75°34'	74	5	7,48	1988	41.5	
7034230,0	1970	OTTAWA	ON	CAN	45°25'	75°34'	67	5	8,76	1988	44.2	
7034240,0	1970	OTTAWA	ON	CAN	45°25'	75°34'	67	5	8,96	1988	27.0	
7034250,0	1970	OTTAWA	ON	CAN	45°25'	75°34'	65	5	8,03	1990	19.0	
7311350,0	1973	A.F.E.S.	NB	CAN	46°00'	66°15'	120	N/A	8,30	1990	54.0	
7311360,0	1973	A.F.E.S.	NB	CAN	46°00'	66°15'	120	N/A	8,74	1990	72.5	
7432000,0	1974	P.N.F.I.	ON	CAN	45°58'	77°24'	160	8	9,56	1990	60.2	
7432010,0	1974	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	9,62	1990	32.0	
7432030,0	1974	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	10,57	1990	70.8	
7432060,0	1974	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	8,28	1990	30.8	
7432080,0	1974	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	7,23	1991	67.5	
7932260,0	1978	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	10,29	1990	77.0	
7832280,0	1978	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	9,23	1990	84.5	
7832290,0	1978	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	10,67	1990	60.5	
7832300,0	1978	P.N.F.I.	ON	CAN	45°58'	77°24'	160	5	8,60	1986	40.0	
7931180,0	1979	P.N.F.I.	ON	CAN	45°59'	77°28'	180	5	10,40	1986	80.0	
7931200,0	1979	P.N.F.I.	ON	CAN	45°59'	77°28'	180	5	9,95	1990	56.2	
8205950,0	1982	NOEL PAUL BROOK	NF	CAN	48°32'	66°37'	330	B	9,01	1989	51.2	
850010B,0	1985	BAY D'ESPoir	NF	CAN	47°57'	55°36'	150	B	9,88	1991	43.5	
8510221,0	1985	BT. ANDREW'S	NS	CAN	45°36'	61°52'	B	8,32	1990	48.0		
8800429,0	1988	BAY D'ESPoir	NF	CAN	47,66	55,52	200	B	9,14	1989	83.0	
8800430,0	1988	RONDICKTON	NF	CAN	50,59	56,14	100	B	8,32	1989	56.2	
880431,0	1988	PORT BAUNDERS	NF	CAN	50,25	57,15	110	B	7,31	1989	25.7	
8900432,0	1988	MICHAEL'S BROOK	NF	CAN	48,46	56,19	230	B	7,83	1989	80.5	
9130076,0	1991	DEEP RIVER	ON	CAN	46,05	77,28	3	4,56				
9130077,0	1991	P.N.F.I.	ON	CAN	45,58	77,24	5	6,72				
9130078,0	1991	P.N.F.I.	ON	CAN	45,58	77,25	5	7,21				
9130079,0	1991	P.N.F.I.	ON	CAN	45,58	77,26	5	7,70				
9130080,0	1991	P.N.F.I.	ON	CAN	45,58	77,24	5	7,16				
9130081,0	1991	P.N.F.I.	ON	CAN	45,58	77,25	5	8,18				
9130082,0	1991	P.N.F.I.	ON	CAN	45,58	77,24	5	6,90				
<b>SPECIES 1,470 ABIES FRASERI (Fraser fir)</b>												
8285440,0	1982	JACKSON COUNTY	NC USA		35,15	83,15	N/A		7,28	1986	48.0	
<b>SPECIES 1,500 ABIES GRANDIS (grand fir)</b>												

SEEDBANK NUMBER	YEAR	COLL PROVENANCE	PV	CTRY	LAT	LONG (°)	ELEV (m)	COLL TYPE	1000 Sdwt.	YEAR TEST	Z GERH	REMARKS
7473B60+0	1974	VICTORIA	BC	CAN	48°29'	123.26	90	B(3)	23.95	1986	13.0	
8470994+0	1984	IRON RIVER	BC	CAN	49°45'	125.00	25	B(50)	20.20	1985	61.7	
8570210+0	1985	CEDAR	BC	CAN	49.07	123.52	N/A	18.03	1986	21.0		
8570211+0	1985	RAINBRIDGE LAKE	BC	CAN	49.31	124.51	N/A	18.70	1986	56.5		
8570212+0	1985	BUCKLEY BAY	BC	CAN	50.05	125.21	N/A	30.31	1986	55.0		
8871099+0	1988	MENZIES BAY	BC	CAN	49.03	123.50	B	18.06	1990	85.5		
8871100+0	1988	YELLOW POINT	BC	CAN	49.32	124.50	B	20.87	1990	75.0		
8871101+0	1988	BUCKLEY BAY	BC	CAN	49.32	124.50	B	17.86	1990	67.5		
SPECIES	1,560	ABIES HOMOLEPIS (NIKKO FIR)										
8181585+0	1981	NAGANO PREFECTURE	JPN		36.10	137.40E	1350	N/A	14.68	1990	19.0	
SPECIES	1,600	ABIES LASIOCarpa (alpine fir)										
7473110+0	1974	MONASHEE MOUNTAINS	BC	CAN	51.05	118.35	1830	B	9.93	1986	50.0	
7473120+0	1974	SHUSWAP LAKE	BC	CAN	50.58	119.30	1370	B	10.72	1986	61.0	
7477310+0	1974	MC CALLUM RAY LAKE	RC	CAN	50.51	119.51	1440	B	10.60	1986	33.5	
7971836+0	1979	HUDSON'S BAY MOUNTAIN	BC	CAN	54.45	127.15	1130	B(6)	10.89	1990	60.5	
82270557+0	1982	DUCK LAKE	BC	CAN	49.07	124.39	1130	B(10)	13.24	1990	33.3	
8570213+0	1985	GRAFFUNDER LAKES	BC	CAN	N/A	N/A	N/A	B.63	1986	44.5		
8570214+0	1985	GRAFFUNDER LAKES	BC	CAN	N/A	N/A	N/A	14.49	1986	34.5		
8570215+0	1985	GRAFFUNDER LAKES	BC	CAN	N/A	N/A	N/A	8.30	1986	31.0		
SPECIES	1,650	ABIES NEPHROLEPTIS										
8380662+0	1983	YICHUN, HEILONGJIANG PROV	CHN		47.00	129.00E	250	N/A	8.26	1985	46.5	
SPECIES	1,700	ABIES SACHALINENSIS (Sachalin fir)										
7980035+0	1979	HOKKAIDO PREFECTURE	JPN		42.49	142.23E	380	N/A	1.00	1986	64.0	
7980036+0	1979	HOKKAIDO PREFECTURE	JPN		42.49	142.24E	380	N/A	0.63	1986	34.0	
SPECIES	1,900	ABIES VEITCHII (veitch fir)										
7985037+0	1979	YAMANASHI PREFECTURE	JPN		35.24	138.44E	1420	N/A	11.22	1986	69.0	
7985038+0	1979	NAGANO PREFECTURE	JPN		35.32	137.30E	2200	N/A	0.92	1986	76.1	
SPECIES	2,050	ACER BARBIERUE										
8980158+0	1989	NOVOSIBIRSK	SUN		55.04	83.05E	B		41.88		PL	
SPECIES	2,150	ACER GINNALA (canar maple)										
8980151+0	1989	NOVOSIBIRSK	SUN		55.04	83.05E	B		21.43		PL	
SPECIES	2,210	ACER GLAERIUM var. DOUGLASII (Douglas maple)										
8471440+0	1984	HANNING PROV. PARK	BC	CAN	49.13	120.58	760	S	48.44	1985	0.1	
8471441+0	1984	HANNING PROV. PARK	BC	CAN	49.13	120.58	760	S	55.53	1985	0.1	
8471442+0	1984	HANNING PROV. PARK	BC	CAN	49.13	120.58	760	S	50.43	1985	0.1	

SEEDBANK NUMBER	YEAR	COLL PROVENANCE	PV	CTRY	LAT	LONG (°)	ELEV (m)	COLL TYPE	1000 Sdwt	YEAR TEST	% GERM	REMARKS
<b>SPECIES 2,300 ACER MACROPHYLLUM (bigleaf maple)</b>												
8470086.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	130.58			
8471437.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	114.33	1985	12.0	
8471438.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	133.84	1985	0.1	
8471439.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	181.29	1985	0.1	
<b>SPECIES 2,340 ACER MONO</b>												
8980152.0	1989	NURSKOYE	SUN	SUN	50.21	138.06E	8		48.70			
<b>SPECIES 2,350 ACER NEUNUND (Manitoba maple/bone-elder)</b>												
8330024.0	1983	TORONTO	ON	CAN	43.43	79.23	152	S	49.25	1986	39.5	
8330032.0	1983	TORONTO	ON	CAN	43.43	79.23	150	S	70.57	1986	58.5	
<b>SPECIES 2,450 ACER PENSYLVATICUM (trined maple/moonwood)</b>												
8430049.0	1984	DENBIGH	ON	CAN	45.09	77.10	300	B(2)	37.75	1986	83.0	
8830132.0	1988	P.N.F.I.	ON	CAN	45.59	77.33	300	B(2)	34.79			
8930024.0	1989	P.N.F.I.	ON	CAN	45.59	77.33	300	S	26.48			
<b>SPECIES 2,500 ACER PLATANOIDES (Norway maple)</b>												
8180990.0	1981	KARACHAYEV-CHERKESKAYA	SUN	SUN	44.00	42.00E	8		143.63	1985	41.0	
8330026.0	1983	TORONTO	ON	CAN	43.43	79.23	156	S	169.27	1984	8.0	PL
8330139.0	1983	TORONTO	ON	CAN	43.43	79.23	156	S	161.93	1984	49.3	PL
83300641.0	1983	TORONTO	ON	CAN	43.43	79.23	156	S	197.20	1984	17.3	PL
8580092.0	1985	HELSINKI	FIN	FIN	60.06	25.00E	R(45)		101.80	1986	71.0	
<b>SPECIES 2,550 ACER PSEUDOPLATANUS (sycamore maple)</b>												
83300073.0	1983	TORONTO	ON	CAN	43.40	79.23	107	S	112.94	1984	28.0	PL
8580168.0	1985	HUNTERS-SUR-SAULX-FOR.	FRA	FRA	48.34	52.21E	300	N/A	69.00			
<b>SPECIES 2,570 ACER PSEUDOSIBILITANUM</b>												
88801097.0	1988	SHKOTOVA	SUN	SUN	43.22	132.14E	8		41.06			
<b>SPECIES 2,600 ACER RUBRUM Cred (soft) maple</b>												
7530070.0	1973	CHALK RIVER	ON	CAN	46.05	77.23	150	S	14.19	1991	0.1	
7530080.0	1975	CHALK RIVER	ON	CAN	46.05	77.23	150	S	11.52	1991	0.5	
7530090.0	1975	CHALK RIVER	ON	CAN	46.05	77.23	150	S	9.71	1991	0.1	
7530120.0	1975	P.N.F.I.	ON	CAN	46.00	77.25	120	S	10.43	1991	0.1	
7530180.0	1975	KENDRA	ON	CAN	49.38	93.50	380	B(10)	11.92	1990	19.2	
7620400.0	1976	LAUREAT	PD	CAN	46.02	76.18	240	S	19.34	1991	1.0	
7630010.0	1976	P.N.F.I.	ON	CAN	45.59	77.23	150	S	13.37	1991	0.1	
7630030.0	1976	P.N.F.I.	ON	CAN	45.59	77.24	150	S	14.17	1991	0.1	
7630060.0	1976	P.N.F.I.	ON	CAN	45.59	77.25	170	S	17.96	1990	1.0	
7630170.0	1976	P.N.F.I.	ON	CAN	45.57	77.24	160	S	12.24	1991	0.1	
7630190.0	1976	CHALK RIVER	ON	CAN	46.03	77.23	150	S	14.77	1991	1.0	
7720400.0	1977	LAUREAT	PD	CAN	45.56	76.22	240	S	17.11	1991		

SEEDBANK NUMBER	YEAR GROW.	PROVENANCE	PV	CTRY	LAT	LONG (W)	ELEV (m)	COLL TYPE	1000 Sdwt.	TEST	YEAR GERM	REMARKS	
7720410.0	1977	LAUREAT	PA	CAN	45.56	76.22	240	B	11.66	1991	0.1		
7730110.0	1977	ELMVALE	ON	CAN	44.35	79.47	180	S	13.05	1991	0.1		
7930020.0	1979	MAINFLEET	ON	CAN	42.48	79.23	175	B(5)	12.65	1991	6.5		
7930030.0	1979	TERRA COTTA	DN	CAN	43.44	79.55	275	B(5)	12.16	1991	8.5		
7930040.0	1979	SEVERN BRIDGE	DN	CAN	44.43	79.18	210	B(5)	12.55	1991	6.2		
7930050.0	1979	P.N.F.I.	DN	CAN	45.59	77.26	170	B(5)	9.88	1991	3.0		
7930070.0	1979	P.N.F.I.	DN	CAN	45.58	77.25	180	S	13.90	1991	0.1		
7930080.0	1979	P.N.F.I.	DN	CAN	45.59	77.26	180	S	12.46	1991	0.1		
7930100.0	1979	P.N.F.I.	DN	CAN	45.59	77.25	170	S	14.66	1991	15.3		
7930110.0	1979	P.N.F.I.	ON	CAN	45.59	77.25	170	S	13.42	1991	43.5		
8230070.0	1982	P.N.F.I.	ON	CAN	45.59	77.24	150	S	10.92	1990	64.0		
8230100.0	1982	P.N.F.I.	ON	CAN	46.00	77.25	150	S	8.13	1990	18.5		
8430013.0	1984	P.N.F.I.	ON	CAN	46.00	77.25	150	S	11.82	1991	70.5		
8430014.0	1984	P.N.F.I.	ON	CAN	46.00	77.24	150	S	7.86	1991	47.5		
8430015.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	14.48	1991	45.2		
8430016.0	1984	P.N.F.I.	ON	CAN	45.59	77.25	180	S	14.44	1991	62.8		
8430017.0	1984	P.N.F.I.	ON	CAN	45.59	77.27	190	S	13.05	1990	88.0		
8430018.0	1984	P.N.F.I.	ON	CAN	45.59	77.27	190	S	7.89	1991	15.6		
8430019.0	1984	P.N.F.I.	ON	CAN	45.59	77.24	150	S	14.47	1991	55.8		
8430020.0	1984	CHALK RIVER	ON	CAN	46.04	77.24	150	S	13.08	1990	42.0		
8430021.0	1984	CHALK RIVER	ON	CAN	46.04	77.25	150	S	16.08	1990	54.2		
8430022.0	1984	CHALK RIVER	ON	CAN	46.04	77.26	150	S	11.00	1990	86.0		
8430024.0	1984	LOON LAKE	ON	CAN	44.55	79.25	215	S	14.75	1991	61.2		
8430025.0	1984	SITE REGION 62	ON	CAN	45.59	77.24	150	S	N/A	14.71	1990	56.5	
82730159.0	1987	P.N.F.I.	ON	CAN	45.59	77.25	150	S	13.23	1991	91.2		
8730160.0	1987	P.N.F.I.	ON	CAN	45.59	77.25	150	S	11.95	1990	60.5		
8730161.0	1987	CHALK RIVER	ON	CAN	46.04	77.25	150	S	10.56	1991	72.5		
87300008.0	1989	DEEP RIVER	ON	CAN	46.06	77.30	150	S	10.01	1991	24.2		
8930009.0	1989	P.N.F.I.	ON	CAN	46.00	77.24	150	S	12.14	1991	51.5		
8930010.0	1989	DEEP RIVER	ON	CAN	46.06	77.30	150	S	6.75	1991	39.0		
SPECIES	7,800	ACER SACCHARUM (Sugar maple)											
8630162.0	1986	GALDENTIA	ON	CAN									
8830273.0	1988	PELHAM	ON	CAN	43.04	79.21	190	S	74.56	1997	36.0		
SPECIES	2,900	ACER SPICATUM (Mountain maple)											
8430042.0	1984	P.N.F.I.	ON	CAN	45.59	77.25	150	S	17.45	1985	18.5		
8430043.0	1984	CHARLESTON LAKE	ON	CAN	44.31	76.01	120	B(2)	14.93	1986	76.0		
8930025.0	1989	P.N.F.I.	ON	CAN	45.59	77.25	150	S	17.05				
8930026.0	1989	P.N.F.I.	ON	CAN	45.59	77.25	150	S	16.89				
SPECIES	2,910	ACER TATARICUM (Tatarian maple)											
8980156.0	1989	NOVOSIBIRSK	SUN		55.04	83.05E	B		26.71				
SPECIES	2,920	ACER TEMENTOSUM (Korean maple)											
8980153.0	1989	NOVOSIBIRSK	SUN		55.04	83.05E	B		29.76				
SPECIES	2,940	ACER LIKURUNDENSE											

SPECIES	STREETBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	(m)	TYPE	Sdwt.	1000	YEAR	GERM	REMARKS	
7983300.0	1979	NAPOLI, CAMPANIA	USA	40.39	14.30E	700	B	2.63	1989	0,1						
8082030.0	1980	NUVOSTIRISK	ITA	50.47	3.53E	N/A	S	2.51	1988	15,8						
8181340.0	1981	GERAARDSBERGEN	REL					3.55	1988	51,0	PL					
SPECIES	4.050	ALNUS CORDATA (Italian alder)														
3380676.0	1983	F-PIN, SICHUAN PROVINCE	CHN	29.00	104.00E	355	N/A	0.57	1989	7,8						
SPECIES	4.100	ALNUS CRISPRA (green alder)														
7931400.0	1979	NIMITZ TOWNSHIP	ON	47.38	83.15	460	B	0.29	1989	32,2						
8310205.0	1983	RIVERDALE	PE	46.14	63.22	135	B(12)	0.24	1989	7,0						
8310206.0	1983	IONA	PE	46.05	62.48	45	B100	0.22	1985	2,0						
8310207.0	1983	MOUNT ROYAL	PE	46.40	64.15	20	B(30)	0.24	1985	13,0						
8310894.0	1983	TANTALLON	NS	44.42	63.52	99	B(35)	0.18	1989	9,0						
8310895.0	1983	YARMOUTH	NS	43.55	66.05	31	B(30)	0.26	1989	28,3						
8320554.0	1983	MISSISSIPPI RIVER	PQ	48.50	64.52	76	B(35)	0.29	1989	46,8						
8320555.0	1983	MISSISSIPPI RIVER	PQ	48.50	64.53	129	B(25)	0.24	1989	30,0						
8360544.0	1983	EDSON	AB	53.35	116.30	B(50)	0.25	1988	34,2							
8360545.0	1983	FORT MCHURRAY	AB	56.30	112.10	B(100)	0.27	1989	21,5							
8360546.0	1983	OBED SUMMIT	AB	53.30	117.10	B(75)	0.35	1989	50,2							
8360547.0	1983	FORT ASSINIBOINE	AB	54.30	114.50	B(50)	0.35	1988	44,8							
8400852.0	1984	GRAND FALLS	NF	49.00	55.35	122	B(6)	0.37	1990	71,5						
8400853.0	1984	CARMANAILE	NF	49.25	54.20	13	B(7)	0.40	1990	74,8						
8400859.0	1984	FLAT BAY	NF	48.18	58.36	61	S	0.51	1980	60,0						
8400860.0	1984	FLAT BAY	NF	48.18	58.36	61	B(8)	0.46	1989	71,8						
8411712.0	1984	AMHERST	NB	45.53	64.16	30	B(5)	0.37	1989	75,0						
8421686.0	1984	LAURENTIDE PROV. PARK	PQ	47.44	70.44	762	B(5)	0.36	1989	52,8						
8421687.0	1984	CHARNY	PQ	46.43	71.17	61	B(5)	0.38	1989	62,2						
8421713.0	1984	BERSIMIS	PQ	49.15	69.32	274	B(7)	0.37	1989	72,2						
8421714.0	1984	REMIGNY	PQ	47.47	79.15	274	B(7)	0.36	1989	67,2						
8421715.0	1984	CHAPAI'S	PQ	49.22	74.02	411	B(7)	0.42	1989	83,0						
8421716.0	1984	GROSSE ROCHE	PQ	48.59	67.01	183	B(6)	0.57	1989	89,0						
8421717.0	1984	QUEVILLON	PQ	49.06	77.07	76	B(7)	0.32	1989	64,2						
8421718.0	1984	ST. MAURICE	PQ	47.14	72.51	152	B(7)	0.37	1989	69,8						
8421719.0	1984	VERENDRYE	PQ	47.30	76.43	366	B(7)	0.36	1989	45,5						
8421720.0	1984	NEW RICHMOND	PQ	48.25	65.39	229	B(7)	0.60	1989	79,5						
8421721.0	1984	HANTS	PQ	49.52	68.44	335	B(6)	0.37	1989	76,5						
8421722.0	1984	CHIBOUGAMAU	PQ	48.40	72.35	183	B(7)	0.37	1989	86,5						
8421723.0	1984	SABARD	PQ	48.00	70.04	213	B(5)	0.32	1989	72,2						
8421724.0	1984	TADOUSSAC	PQ	48.08	69.41	46	B(5)	0.46	1989	66,2						
8421725.0	1984	ST. HONORE	PQ	48.31	71.04	152	B(5)	0.39	1989	74,8						
8431686.0	1984	FRAZER LAKE	ON	49.12	88.12	290	B	0.26	1989	36,5						
8431689.0	1984	NAKASHAMINKAN LAKE	ON	49.14	90.37	503	B(7)	0.35	1989	54,5						
8431690.0	1984	NAMEWA MININKAN RIVER	ON	49.44	87.45	350	B(7)	0.31	1989	28,8						
8431691.0	1984	PIC RIVER	ON	49.22	85.59	350	B(7)	0.31	1989	71,8						
8431692.0	1984	RAITH	ON	48.55	90.00	486	B(7)	0.25	1989	14,0						
8441693.0	1984	BOGGY CREEK	MB	51.32	100.56	686	B(13)	0.33	1989	51,0						
8451474.0	1984	HUDSON BAY	SK	52.47	101.47	361	B(5)	0.25	1989	8,5						

SEEDBANK NUMBER	YEAR	COLL PROVENANCE	PV	CTRY	LAT	LONG	ELFU (m)	COLL TYPE	1000 Sdwt	YEAR	%	REMARKS	
8451694.0	1984	MEADOW LAKE	SK	CAN	54.16	108.16	465	B(6)	0.25	1989	16.5		
8451695.0	1984	CANDLE LAKE	SK	CAN	53.53	105.24	495	B(5)	0.21	1989	27.0		
8451696.0	1984	LARONGE	SK	CAN	54.48	105.18	404	B(7)	0.18	1989	5.0		
8451697.0	1984	FORT A LA CORNE	SK	CAN	53.24	104.43	450	B(6)	0.25	1989	7.0		
8451698.0	1984	MCPHEE LAKE	SK	CAN	53.52	105.58	549	B(2)	0.20	1989	12.0		
SPECIES	4.170	ALNUS FIRMA SIEB. ET ZUCC.											
0082228.0	1980	KOCHI PREFECTURE	JPN	JPN	32.49	132.49E	100	N/A	1.22	1986	88.0		
0481652.0	1984	SHIGA PREFECTURE	JPN	JPN	34.58	136.00E	260	N/A	1.01	1986	80.5		
SPECIES	4.300	ALNUS BLUTINOSA (black alder)											
11800017.0		KIN-KAJANI, PUROLA	FIN					N/A	1.11	1988	24.0		
7983180.0	1979	HALLIKU FOR DIS ESTONIYA	SUN		58.45	27.00E		B	1.21	1986	3.5		
79B4470.0	1979	ST. JULIEN-EN-BORN	FRA		44.04	1.13E		22	0.93	1988	58.0		
79B4480.0	1979	FRAMBOIS 4	FRA		48.32	6.32E		250	N/A	1.70	1988	69.5	
81000890.0	1981	TURKEY	TUR					N/A	0.98	1980	27.5		
81B1210.0	1981	CHERNAKOVSKAYA OBLAST	SUN		51.30	31.30E		S	1.53	1988	0.5		
81B1320.0	1981	ZOERSEL 3	BEL		51.15	4.40E		B(10)	1.82	1988	43.5		
01B1380.0	1981	JORSTAD, SNASA DISTRICT	NOR		64.12	12.13E		30	S	1.11	1988	31.2	
03B1390.0	1981	VONEGOVA VODA - 3	BRG		25.40	42.50E		400	N/A	1.40	1988	69.2	
04B0964.0	1984	BENDERKA FOR., LITVA SSR	SUN		54.21	23.24E		110	B(3)	1.56	1985	67.0	
05B0199.0	1985	SEED ORCHARD-S21AB550001	SWE					B	1.38	1990	81.3	PL - SOUTHERN SWEDEN	
SPECIES	4.380	ALNUS HIRSUTA											
03B0672.0	1983	CH'ANG-WEI, SHANDONG PROV	CHN		36.00	120.00E	500	N/A	1.20	1989	20.0		
06B0511.0	1986	CH'ANG-WEI, SHANDONG PROV						R/A	1.23	1990	76.0		
SPECIES	4.390	ALNUS HIRSUTA TURCZ var. MICROPHYLLA MAKAI											
8101586.0	1981	IWATE PREFECTURE	JPN		39.46	141.08E	190	N/A	0.63	1990	10.0	PL	
SPECIES	4.400	ALNUS INCANA Esrey (European) alder											
11B0020.0		KIL KOLARI	SWE		59.30	13.20E		N/A	0.27	1989	0.1		
76B3860.0	1976	TARTU RES. FOR, ESTONIYA	SUN		58.22	26.46E		70	B	0.60	1989	1.3	
79B3140.0	1979	TARTU, ESTONIYA S.S.R.	SUN		58.24	26.43E		50	S	0.92	1984	90.0	I. MILLER+RSB
79B3150.0	1979	SIRJU FOR DIST ESTONIYA	SUN		58.19	24.40E		70	S	0.70	1989	0.2	
SPECIES	4.500	ALNUS JAPONICA											
84B1653.0	1984	TOKYO PREFECTURE	JPN		35.19	139.17E	210	N/A	3.09	1986	43.0		
SPECIES	4.520	ALNUS JORDULLENSIS											
86B0290.0	1986	CUENCA RIOBLANCA	COL		5.085	75.28		N/A	0.34	1990	23.0		
SPECIES	4.560	ALNUS NEPALENSIS											
86B0513.0	1986		CHN		25.00	102.00E	2000	N/A	0.39	1987	91.0		

SEEDBANK NUMBER	YEAR	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt.	YEAR TEST	GERM	REMARKS
SEEDS 4,600	ALNUS RIBRA Tred (Norway) alder											
B071150.0	1980	BOTANICAL BAY	BC	CAN	48.28	124.25	50	B	0.52	1988	53.0	
B071180.0	1980	SHAWNIGAN	BC	CAN	48.36	123.40	190	B	0.62	1988	33.5	
B081980.0	1980	JUNEAU	AK	USA	58.23	134.30	3	B(5)	0.51	1984	15.0	
B081990.0	1980	SANDPOINT	ID	USA	48.22	116.45	945	S	0.56	1988	13.0	
B082000.0	1980	FORKS	WA	USA	48.03	124.36	50	S	0.32	1988	26.2	
B082010.0	1980	WIND RIVER EXP. FOREST	WA	USA	45.46	121.55	360	S	0.60	1988	93.2	
B082020.0	1980	FORT BRAGG	CA	USA	39.44	123.03	5	S	0.41	1991	31.0	
B0824510.0	1982	ROBERT'S LAKE	BC	CAN	50.15	125.25	350	B*	0.67	1991	44.0	B(10-20)
B0824520.0	1982	PRINCE RUPERT	BC	CAN	54.20	130.09	8	B	0.78	1991	33.2	
B0824530.0	1982	MASSET, O.C.I.	BC	CAN	54.03	132.04	8	B	0.70	1991	7.8	
B0820230.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.29	1990	4.0	
B370231.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.30	1990	35.0	
B370232.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.65	1988	43.5	
B370233.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.46	1988	26.0	
B370234.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.47	1988	17.2	
B370235.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.60	1990	25.2	
B370239.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.41	1988	10.8	
B370241.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.38	1990	7.0	
B370245.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.47	1990	17.5	
B370250.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.52	1988	36.8	
B370251.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.48	1988	27.2	
B370252.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.49	1990	42.5	
B370254.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.59	1990	41.5	
B370257.0	1983	SALMON RIVER	BC	CAN	50.12	126.45	304	S	0.63	1990	95.2	
B370258.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.45	1990	60.2	
B370261.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.03	1990	77.0	
B370262.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.80	1990	0.1	
B370263.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.84	1990	86.0	
B370264.0	1983	SALMON RIVER	BC	CAN	54.15	125.45	304	S	0.56	1990	12.8	
B370686.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	R(2)				
B470545.0	1984	TERRACE	BC	CAN	54.40	128.41	305	S	0.37	1991	0.1	
B470549.0	1984	TERRACE	BC	CAN	54.40	128.41	305	S	0.37	1990	0.9	
B470555.0	1984	TERRACE	BC	CAN	54.40	128.41	305	S	0.71	1990	0.2	
B470564.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.54	1990	0.4	
B470567.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.81	1990	0.5	
B470569.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.44	1990	46.5	
B470570.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.46	1990	36.5	
B470572.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.62	1990	82.0	
B470573.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.43	1990	55.5	
B470574.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.60	1990	15.5	
B470577.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.37	1990	30.0	
B470578.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.55	1990	63.0	
B470579.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.54	1990	66.2	
B470580.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.30	1990	0.2	
B470581.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.38	1985	72.5	
B470582.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.60	1990	69.2	
B470583.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.47	1990	52.8	
B470584.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.53	1990	63.8	
B470585.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.70	1990	74.0	
B470586.0	1984	KITIMAT	BC	CAN	50.37	127.15	37	S	0.70	1990	80.2	
B470599.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.59	1990		

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG (°)	ELFU (m)	GULL (m)	1000 Sdwt.	TEST	GERM	% REMARKS
8470600-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.38	1990	52.5	
8470601-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.54	1990	54.2	
8470602-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.43	1990	28.5	
8470603-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.28	1990	33.2	
8470604-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.28	1990	17.0	
8470607-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.57	1990	0.9	
8470608-0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	5	0.42	1990	50.5	
8471466-0	1984	NINETEEN GREEK	BC	CAN	48.48	124.07	160	B(15)	0.42	1990	0.5	
8471467-0	1984	SKEENA RIVER	BC	CAN	54.19	129.20	20	B(8)	0.32	1990	2.0	
SPECIES	4,700	ALNUS RUGOSA (speckled alder)										
79B1B60-0	1979	PENOBSCOT RIVER	ME	USA	45.00	69.00	40	B(20)	0.62	1989	42.2	
8130150-0	1981	P.N.F.T.	ON	CAN	45.59	77.26	180	B(5)	0.74	1990	4.0	
8310202-0	1983	FINMORE	PE	CAN	46.35	64.03	10	B(45)	0.71	1989	18.5	
8310203-0	1983	MILLEVALE	PE	CAN	46.24	63.24	70	B(30)	0.79	1989	18.5	
8310204-0	1983	VALLEYFIELD	PE	CAN	46.08	62.43	45	B(25)	0.85	1989	30.0	
8310876-0	1983	SHEDIAC	NB	CAN	46.14	64.36	15	B(24)	0.67	1989	1.6	
8330892-0	1983	OTTAWA	ON	CAN	45.20	76.30	75	B(29)	0.62	1989	20.0	
8330893-0	1983	PEMBROKE	ON	CAN	45.50	77.15	150	B(19)	0.72	1989	24.3	
8400850-0	1984	ST. GEORGE'S	NF	CAN	48.18	58.27	61	B(7)	0.91	1989	65.0	
8400852-0	1984	GRAND FALLS	NF	CAN	49.00	75.35	172	B	0.83	1989	27.2	
8400853-0	1984	LAKE DOUGLAS	NF	CAN	48.30	56.40	305	B(7)	1.02	1989	41.0	
8401702-0	1984	BERRY HILL POND	NF	CAN	48.20	55.30	213	B(7)	0.99	1989	53.0	
8411499-0	1984	VIEW LAKE	NS	CAN	44.32	65.21	168	B(5)	0.69	1989	57.5	
8411700-0	1984	CORBERRIE	NS	CAN	44.13	65.56	76	B(4)	0.76	1989	29.0	
8411705-0	1984	QUEEN'S COUNTY	NB	CAN	45.57	65.45	15	B(5)	0.86	1989	43.0	
8411706-0	1984	SHINTIMICAS BRIDGE	NB	CAN	45.52	63.54	15	B(5)	0.70	1989	34.0	
8421672-0	1984	VERDNIQUE	PQ	CAN	46.30	74.60	259	B(7)	0.72	1989	88.2	
8421672-0	1984	LA BREVILLE	PQ	CAN	49.09	69.21	303	B	0.94	1989	57.0	
8421677-0	1984	ST. FERFOL	PQ	CAN	47.41	71.13	747	B(7)	0.73	1989	66.0	
8421678-0	1984	HANICOUADAN	PQ	CAN	49.49	68.44	259	B(7)	0.76	1989	56.5	
8421682-0	1984	GRANDE-ANSE	PQ	CAN	47.07	72.55	122	B(7)	0.92	1989	85.8	
8421683-0	1984	LAC AYLAM	PQ	CAN	47.19	76.33	366	B(7)	0.96	1989	83.2	
8421703-0	1984	DEMMONDVILLE	PQ	CAN	45.54	72.30	76	B(6)	0.94	1989	44.0	
8421704-0	1984	ST. THARCISIUS	PQ	CAN	48.33	67.16	290	B(7)	0.81	1989	57.0	
8421707-0	1984	PARISVILLE	PQ	CAN	46.32	72.06	30	B(6)	0.75	1989	50.2	
8421708-0	1984	CLOUTIER	PQ	CAN	48.00	79.05	274	B(6)	0.67	1989	36.0	
8421709-0	1984	AMOS	PQ	CAN	49.07	77.00	76	B(7)	0.77	1989	51.0	
8421710-0	1984	LAC DU MOULIN	PQ	CAN	49.42	74.27	381	B(5)	0.78	1989	39.5	
8430827-0	1984	CARNARVON	ON	CAN	45.02	78.50	305	S	0.83	1985	82.0	
8430829-0	1984	BANCROFT	ON	CAN	44.58	77.46	335	B(7)	1.00	1989	36.0	
8430831-0	1984	JUNCTION HWY 60 AND 127	ON	CAN	45.26	78.14	335	B(7)	0.96	1989	69.5	
8430832-0	1984	COLBURN	ON	CAN	44.02	77.54	122	B(7)	0.86	1989	95.2	
8430833-0	1984	OFFNEE	ON	CAN	44.18	78.28	244	B(7)	0.98	1989	48.0	
8430843-0	1984	DACRE	ON	CAN	45.20	77.02	305	S	0.83	1985	82.0	
8431673-0	1984	CARAHAT	ON	CAN	49.33	86.09	350	B(6)	0.82	1989	61.2	
8431674-0	1984	DOG RIVER	ON	CAN	48.51	90.00	488	B(7)	0.74	1989	39.0	
8431675-0	1984	WHITE RIVER	ON	CAN	45.22	76.32	183	B(7)	0.98	1989	51.5	
8431676-0	1984	DACRE	ON	CAN	45.08	77.02	305	B(6)	0.88	1989	52.2	
8431680-0	1984	HAZLWOOD	ON	CAN	49.08	80.37	488	B(6)	0.72	1989	36.0	
8431681-0	1984	SPRUCE RIVER	ON	CAN	49.08	89.19	437	B(7)	0.72	1989	56.0	
8431685-0	1984	BEARDMORE	ON	CAN	49.41	87.41	335	R(7)	0.78	1989	50.0	

SEEDBANK NUMBER	YEAR	CULT.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL. TYPE	1000 SEEDS.	TEST	YEAR	% GERM.	REMARKS
79721B40.0	1979	HICKENDRICK PASS	BC	CAN	54.50	126.45	1190	B(20)	0.33	1990	87.0			
8021210.0	1980	CRANBROOK	BC	CAN	49.35	117.05	640	B	0.29	1990	31.0			
80B1960.0	1980	MENDENHALL VALLEY	AK	USA	58.24	134.34	15	B	0.25	1988	4.2			
80B1970.0	1980	SHANDPOINT	JD	USA	48.22	116.45	1350	S	0.34	1988	2.0			
81B1320.0	1981	ARCATA	CA	USA	40.54	124.05	1500	B	0.29	1990	20.0			
8370224.0	1983	WHITEWATER	BC	CAN	49.27	117.11	1128	B	0.27	1984	5.5	B(40+)		
8370535.0	1983	GOLDEN	BC	CAN	51.30	117.20	8	B	0.41	1990	50.0	B(100)		
8370536.0	1983	VALEmount	BC	CAN	52.30	119.15	850	B	0.29	1990	22.7	B(100)		
8370886.0	1983	M. ARROWSMITH	BC	CAN	49.14	124.36	1150	S	0.52	1989	1.0			
8370887.0	1983	SPROUT LAKE	BC	CAN	49.18	125.04	640	B	0.32	1989	20.2			
8370888.0	1983	MCKAY LAKE	BC	CAN	49.45	125.12	914	B(26)	0.54	1989	54.5			
8370889.0	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	B(45)	0.37	1989	26.5			
8370890.0	1983	PHOENIX	BC	CAN	49.05	118.35	1219	B(50)	0.36	1990	15.5			
8370891.0	1983	DEASE LAKE	BC	CAN	58.45	130.03	849	B	0.49	1989	BB.2			
8370896.0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	B	0.68	1989	B1.0			
8370897.0	1983	GALENA BAY	BC	CAN	50.35	117.52	607	B*	0.38	1989	44.0	B(20+)		
8370898.0	1983	HOPE RIDGE	BC	CAN	49.16	121.15	762	B*	0.51	1989	33.5	B(30+)		
8370899.0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	B*	0.45	1989	50.2	B(40+)		
8370900.0	1983	VANDERHOOF	BC	CAN	53.56	123.49	1267	B*	0.38	1989	51.2	R(50+)		
8370901.0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	B*	0.37	1989	22.8	B(50+)		
8370902.0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	B*	0.41	1989	20.0	B(40+)		
8370903.0	1983	CHATHA NOSE SUMMIT	BC	CAN	54.27	126.08	1430	B	0.42	1989	4B.0			
8370904.0	1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	B(46)	0.44	1989	BB.0			
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SPECIES	4.800	ALNUS BIMINUTA (white alder)												
8071200.0	1980	CRANBROOK	BC	CAN	49.30	117.47	712	B	0.56	1989	0.2			
8360537.0	1983	WANDERING RIVER	AB	CAN	53.25	117.45	117	B(20)	0.55	1989	25.5			
8360542.0	1983	EDSON	AB	CAN	55.20	112.30	1250	B	0.57	1989	39.2			
8360543.0	1983	FT. ASSINIBOINE	AB	CAN	53.35	116.30	114.50	B(40)	0.52	1989	23.5			
8360885.0	1983	VALEMOUNT	BC	CAN	52.50	119.15	850	B(50)	0.60	1989	24.8			
8370539.0	1983	LOUIS CREEK	BC	CAN	50.51	120.00	726	B*	0.61	1989	48.0			
8370875.0	1983	CACHE CREEK	BC	CAN	50.59	121.28	541	B*	0.48	1990	6.2	B(50+)		
8370876.0	1983	BOBTAIL	BC	CAN	53.57	123.28	1152	B	0.70	1989	4B.0			
8370877.0	1983	ISKUT	BC	CAN	57.53	130.00	1033	B	0.71	1989	66.0			
8370880.0	1984	HOUSTON	BC	CAN	54.29	126.13	533	B*	0.82	1989	55.0	B(30+)		
8370881.0	1983	THREE VALLEY GAP	BC	CAN	50.59	118.33	518	B*	0.40	1989	4.5	B(40+)		
8370882.0	1983	BLUEBERRY GREEN	BC	CAN	49.18	117.47	884	B*	0.54	1989	1.8	B(25+)		
8370883.0	1984	DEASE LAKE	BC	CAN	58.32	130.00	817	B	0.72	1989	25.5	B(30+)		
SPECIES	4.900	ALNUS TENUIFOLIA (mountain alder)												
8071200.0	1980	CRANBROOK	BC	CAN	49.30	117.47	712	B	0.56	1989	0.2			
8360537.0	1983	WANDERING RIVER	AB	CAN	53.25	117.45	117	B(20)	0.55	1989	25.5			
8360542.0	1983	EDSON	AB	CAN	55.20	112.30	1250	B	0.57	1989	39.2			
8360543.0	1983	FT. ASSINIBOINE	AB	CAN	53.35	116.30	114.50	B(40)	0.52	1989	23.5			
8360885.0	1983	VALEMOUNT	BC	CAN	52.50	119.15	850	B(50)	0.60	1989	24.8			
8370539.0	1983	LOUIS CREEK	BC	CAN	50.51	120.00	726	B*	0.48	1990	6.2	B(50+)		
8370875.0	1983	CACHE CREEK	BC	CAN	50.59	121.28	541	B*	0.54	1989	13.5	B(20+)		
8370876.0	1983	BOBTAIL	BC	CAN	53.57	123.28	1152	B	0.70	1989	4B.0			
8370877.0	1983	ISKUT	BC	CAN	57.53	130.00	1033	B	0.71	1989	66.0			
8370880.0	1984	HOUSTON	BC	CAN	54.29	126.13	533	B*	0.82	1989	55.0	B(30+)		
8370881.0	1983	THREE VALLEY GAP	BC	CAN	50.59	118.33	518	B*	0.40	1989	4.5	B(40+)		
8370882.0	1983	BLUEBERRY GREEN	BC	CAN	49.18	117.47	884	B*	0.54	1989	1.8	B(25+)		
8370883.0	1984	DEASE LAKE	BC	CAN	58.32	130.00	817	B	0.72	1989	25.5	B(30+)		
SPECIES	4.950	ALNUS VIRIDIS												

SEEDBANK NUMBER	YEAR	COLL. PROVENANCE	PV	CTRY	LAT	LONG (m)	TYPE	ELEV (m)	COLL TEST	1000 Swt	YEAR TEST	% GERM	REMARKS
9080229.0	1990	SRIU		RUM	45.27	26,06E	B	0.38	1991	1986	38.0		
9080230.0	1990	RETEZAT		RDM	45.21	22,52E	B	0.53					
9080231.0	1990	SINAIA DISTRICT		RDM	45.22	25,30E	B	0.26	1991	1986	21.5		
SPECIES	7,800	AUSTROCEDRUS CHILENSIS											
8690126.0	1986	MES DE MARZO	ARG					N/A	4.05	1986	25.0		
8690127.0	1986	MES DE MARZO	ARG					N/A	3.33	1986	21.5		
8780165.0	1987	EL BOLSON, RID NEGRO	ARG	42,00S	71,35	300	N/A	4.80					
SPECIES	B,100	BETULA ALLEGHANIENSIS (yellow birch)											
6630530.0	1966	P.N.F.I.	ON	CAN	45.56	77.33	S	0.87	1990	47.0			
6730310.0	1967	ALGONQUIN PARK	ON	CAN	46.10	78.30	S	1.11	1990	52.8			
6730320.0	1967	ALGONQUIN PARK	ON	CAN	46.10	78.30	S	1.23	1990	43.2			
6730340.0	1967	PANCAKE RIVER	ON	CAN	47.02	84.38	S	0.83	1988	40.8			
6730360.0	1967	PANCAKE RIVER	ON	CAN	47.02	84.38	S	0.77	1990	71.5			
6731920.0	1967	SAULT ST. MARIE	ON	CAN	46.31	84.20	N/A	0.90	1990	16.0			
7030820.0	1970	PEMBROKE	ON	CAN	45.49	77.07	S	1.53	1990	71.8			
7030840.0	1970	P.N.F.I.	ON	CAN	46.00	77.26	S	1.22	1990	0.1			
7030850.0	1970	P.N.F.I.	ON	CAN	46.00	77.25	S	1.09	1990	5.8			
7030880.0	1970	PEMBROKE	ON	CAN	45.49	77.07	S	1.42	1990	81.2			
7030890.0	1970	PEMBROKE	ON	CAN	45.49	77.07	S	1.10	1991	0.4			
7030900.0	1970	ALGONQUIN PARK	ON	CAN	45.45	79.00	S	0.87	1991	28.0			
7030910.0	1970	ALGONQUIN PARK	ON	CAN	45.45	79.00	S	0.87	1991	38.8			
7030920.0	1970	P.N.F.I.	ON	CAN	46.00	77.26	S	1.15	1990	46.5			
7030930.0	1970	ALGONQUIN PARK	ON	CAN	45.33	78.12	S	1.04	1991	3.0			
7030940.0	1970	ALGONQUIN PARK	ON	CAN	45.33	78.12	S	1.54	1990	1B.2			
7030950.0	1970	OTTAWA	ON	CAN	45.24	75.33	S	1.38	1991	76.0			
7033170.0	1970	ALGONQUIN PARK	ON	CAN	46.00	77.26	N/A	1.45	1990	64.8			
7130940.0	1971	P.N.F.I.	ON	CAN	46.00	77.26	N/A	1.15	1991	3.2			
7433790.0	1971	P.N.F.I.	ON	CAN	46.00	77.26	S	0.95	1991	BB.5			
7434400.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	S	1.12	1989	77.2			
7434510.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	S	1.24	1990	64.0			
7434520.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	S	1.31	1990	28.0			
7434530.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	S	1.41	1990	57.2			
7434540.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	S	1.63	1990	0.1			
7434550.0	1974	WHITNEY	ON	CAN	45.25	78.16	S	0.94	1990	6.0			
7434560.0	1974	WHITNEY	ON	CAN	45.25	78.16	S	1.34	1990	13.0			
7434740.0	1974	WHITNEY	ON	CAN	45.25	78.16	S	1.23	1989	39.5			
7434910.0	1974	WHITNEY	ON	CAN	45.25	78.16	S	1.07	1991	61.5			
7434920.0	1974	WHITNEY	ON	CAN	45.25	78.16	S	1.69	1984	88.0			
7434930.0	1974	WHITNEY	ON	CAN	45.25	78.16	S	0.63	1990	20.0			
8500107.0	1985	BAY D'ESPOIR	NF	CAN	47.51	55.42	S	1.27	1990	0.15			
8800428.0	1988	BAY D'ESPOIR	NF	CAN	47.57	55.48	S	0.75	1990	40.5			
8930035.0	1989	P.N.F.I.	ON	CAN	46.00	77.26	S	1.40	1989	42.0			
8930036.0	1989	CORMHAC	ON	CAN	45.28	77.18	S	1.44	1989	46.8			
8930037.0	1989	P.N.F.I.	ON	CAN	46.00	77.26	S	1.28	1989	80.0			
8930038.0	1989	P.N.F.I.	ON	CAN	46.00	77.24	S	1.26	1989	56.8			
8930039.0	1989	P.N.F.I.	ON	CAN	46.00	77.26	S	0.79	1989	25.2			
8930040.0	1989	P.N.F.I.	ON	CAN	46.00	77.26	S	0.99	1989	50.2			
9130055.0	1991	P.N.F.I.	ON	CAN	46.00	77.25	S	1.89					
9130056.0	1991	P.N.F.I.	ON	CAN	46.00	77.24	S	1.06					

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	FLEV (m)	COLL TYPE	1000 Sdwt.	TEST	YEAR % GERM	REMARKS	
9130057.0	1991	P.N.F.I.		ON	CAN	46.00	77.26	S		1.14				
9130058.0	1991	P.N.F.I.		ON	CAN	46.00	77.26	S		1.15				
9130059.0	1991	P.N.F.I.		ON	CAN	46.00	77.25	S		0.80				
9130060.0	1991	CHALK RIVER		ON	CAN	46.03	77.22	S		0.85				
SPECIES	A.200	BETULA KIRGHISORUM CAUCASUS												
8680291.0	1986	EDINBURGH		SCO		55.57	3.13	N/A		0.24	1990	28.5	POSSIBLE HYBRID	
SPECIES	B.210	BETULA LENTA (cherry birch)												
8530012.0	1985	JORDAN HARBOUR	ON	CAN	43.11	79.19	BB	N/A		0.26	1985	20.0	GPC-IRF	
SPECIES	B.300	BETULA OCCIDENTALIS Counter (black) birch												
0570218.0	1985	SALMON ARM	BC	CAN	50.41	119.17	N/A			0.28	1990	80.2		
0570219.0	1985	ADAMS LAKE	BC	CAN	50.58	119.41	B			0.49	1990	32.8		
SPECIES	B.500	BETULA PAPYRIFERA (white paper) birch												
7520370.0	1975	HONT ALBERT	PO	CAN	48.56	66.04	365	S		0.43	1986	0.1		
7520410.0	1973	PARC DE LA VERENDRYE	PO	CAN	46.49	76.08	335	S		0.56	1990	0.1		
7520420.0	1975	PARC DE LA VERENDRYE	PO	CAN	46.49	76.08	335	S		0.30	1990	0.1		
7520490.0	1973	PARC DE LA VERENDRYE	PO	CAN	46.49	76.08	335	S		0.36	1985	43.5		
7530250.0	1975	P.N.F.I.	ON	CAN	46.00	77.26	150	S		0.31	1990	0.7		
7540270.0	1973	SANDY LANDS FOR. RESERVE	HR	CAN	49.20	96.18	370	S		0.25	1989	6.8		
7540320.0	1975	ABASSIT FOREST RESERVE	MB	CAN	50.00	96.15	460	B(2)		0.30	1990	1.0		
7731990.0	1977	WILTON	ON	CAN	44.47	81.00	180	R(5)		0.18	1990	0.1		
7732000.0	1977	RAMSEY LAKE	ON	CAN	46.30	81.00	250	B		0.35	1990	0.5		
8360629.0	1983	FORT MCMURRAY	AB	CAN	57.03	111.35	305	N/A		0.18	1989	0.1		
8411503.0	1984	A.F.E.S.	NR	CAN	46.00	68.18	100	S		0.25	1991	15.2		
8700207.0	1982	GRAND FALLS HOUSE	NF	CAN	48.50	55.20	90	B		0.26	1990	23.8		
9130035.0	1991	ALICE	ON	CAN	45.45	77.08	5			0.23				
9130036.0	1991	JACKS LAKES	ON	CAN	45.42	77.30	5			0.43				
9130037.0	1991	P.N.F.I.	ON	CAN	45.59	77.26	5			0.37				
9130038.0	1991	P.N.F.I.	ON	CAN	46.00	77.25	5			0.29	1991	30.5		
9130039.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	B(3)			0.35				
9130040.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	S			0.42	1991	54.5		
9130041.0	1991	P.N.F.I.	ON	CAN	46.00	77.25	S			0.28				
9130042.0	1991	P.N.F.I.	ON	CAN	45.58	77.28	S			0.51				
9130043.0	1991	P.N.F.I.	ON	CAN	46.00	77.26	S			0.34				
9130044.0	1991	P.N.F.I.	ON	CAN	45.58	77.27	S			0.23	1991	22.2		
9130045.0	1991	P.N.F.I.	ON	CAN	45.58	77.26	B(3)			0.28				
9130046.0	1991	P.N.F.I.	ON	CAN	45.58	77.27	S			0.34				
SPECIES	B.600	BETULA PENDULA (silver weeping) birch												
80005.0			FRA			59.10	24.46E	BB	N/A		0.12	1988	B.5	
7683890.0	1976	MAHTRA FOREST, ESTONIA	SUN								0.22	1990	36.0	
7984730.0	1979	HANAU 5 SEED ORCHARD	DEU								0.18	1990	0.5	PL
8181020.0	1981	HOTILEVSKAYA OBLAST	SUN								0.18	1991	0.5	
8181030.0	1981	KAREL'SKAYA A.S.S.R.	SUN								0.26	1990	10.0	
8181040.0	1981	KAREL'SKAYA A.S.S.R.	SUN								0.20	1990	16.2	

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG (°m)	ELEV (m)	COLL TYPE	1000 Sdwt	TST	YEAR	%	GERM	REMARKS	
8181050.0	1981	KAREL SKAYA A.S.S.R.	SUN	65.00	35.00E	B	0.26	1984	75.0							
8181060.0	1981	KOSTROHNSKAYA OBLAST	SUN	57.30	41.00E	B	0.18	1984	46.0							
8280573.0	1982	KRONBERG 2 SEED ORCHARD	DEU	50.10	8.31E	N/A	0.20	1991	95.2	PL						
8280574.0	1982	USINGEN 3 SEED ORCHARD	DEU	50.17	8.36E	420	0.18	1991	60.0	PL						
8280575.0	1982	RHINELAND PALATINATE	DEU	50.51	7.00E	200	0.27	1990	44.5	PL						
8280576.0	1982	GRODZISK	POL	52.12	16.21E	90	0.20	1991	55.2							
8280577.0	1982	KRONBERG 1 SEED ORCHARD	DEU	50.10	8.31E	200	0.14	1991	87.2	PL						
8480036.0	1984	LOCH RANNOCH	SCO	56.40	4.35	250	0.25	1991	0.1							
8580183.0	1985	CAIRNDOW, ARGYLL	SCO	56.16	4.55	S	0.16	1990	3.8							
8580184.0	1985	CAIRNDOW, ARGYLL	SCO	56.16	4.55	S	0.06	1991	0.5							
8580185.0	1985	CAIRNDOW, ARGYLL	SCO	56.16	4.55	S	0.32	1991	74.0							
8680140.0	1986	FASHALY FOREST	SCO	56.43	3.47	N/A	0.17	1991	0.2							
8780180.0	1987	BLAIR ATHOLL	SCO	56.46	3.51	B(5)	0.18	1990	1.0							
8880275.0	1988	BLAIR ATHOLL	SCO	56.46	3.51	S	0.17	1989	0.8							
SPECIES	B.650	BETULA PLATYPHYLLA														
8380665.0	1983	PAO-CHI, SHAANXI PROV.	CHN	35.00	107.00E	1500	N/A	0.16	1991	13.2						
840987.0	1984	HEILONGJIANG PROVINCE	CHN	47.00	127.00E	N/A	0.30	1989	43.5							
SPECIES	B.700	BETULA POPULIFOLIA (grey birch)														
7031040.0	1970	OTTAWA	ON CAN	45.24	75.33	70	S	0.09	1991	7.2						
SPECIES	B.800	BETULA PUBESSENS (downy birch)														
11180021.0		KILPISJARVI	SWE	69.00	20.45E	N/A	0.30	1989	29.0							
7681900.0	1976	TARTU, ESTONIYA S.S.R.	SUN	58.22	26.46E	70	0.20	1989	25.5							
7984740.0	1979	DANNDORF 5 SEED ORCHARD	DEU	52.31	10.56E	60	0.29	1990	47.8	PL						
7984750.0	1979	DANNDORF 7 SEED ORCHARD	DEU	52.31	10.56E	60	0.31	1990	89.2	PL						
7984760.0	1979	DANNDORF 12 SEED ORCHARD	DEU	52.31	10.56E	60	0.22	1990	14.2	PL						
7984770.0	1979	DANNDORF 17 SEED ORCHARD	DEU	52.31	10.56E	60	0.23	1990	27.0	PL						
7984780.0	1979	DANNDORF 18 SEED ORCHARD	DEU	52.31	10.56E	60	0.33	1990	0.2	PL						
SPECIES	B.850	BETULA RADDEANA CAUCASUS														
B6R0297.0	1986	EDINBURGH	SCO	55.57	3.13	N/A	0.29	1990	3.2	POSSIBLE HYBRID						
SPECIES	9.100	CARAGANA ARBORESCENS (siberian pea-shrub; pea-tree)														
7634710.0	1976	P.N.F.J.	ON CAN	46.00	77.26	150	B	27.06	1984	0.1						
7634750.0	1976	OTTAWA	ON CAN	45.20	75.41	91	N/A	26.76	1984	0.1						
6730176.0	1987	P.N.F.I.	ON CAN	46.00	77.26	R	23.27	1987	85.2	PL						
8751126.0	1987		SK CAN			B	24.96									
SPECIES	10.200	CARPINIUS CAROLINIANA (blue-beech; hornbeam)														
B430044.0	1984	CHARLESTON LAKE	ON CAN	44.31	76.01	120	B(5)	22.29	1984	R2.7						
B431611.0	1984	TRENTON	ON CAN	44.07	77.36	90	S	16.48	1986	3.5						
SPECIES	11.200	CARYA CORDIFORMIS (bitternut hickory)														
9030003.0	1990	FORESTER'S FALLS	ON CAN	45.41	76.43	90	R	24.68								

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELFU (m.)	COLL TYPE	1000 Sdwt.	YEAR TEST	% GERM	REMARKS
SPECIES 11.250		CARYA GLABRA (pignut hickory)										
8430070.0 1984	FONTHILL	ON CAN	43.03	79.19	246	B(2)	2507.76					
8530081.0 1985	FONTHILL	ON CAN	43.05	79.15	5		2354.52					
SPECIES 11.600	CARYA OVATA (shagbark hickory)											
7437510.0 1974	WALINGHAM	ON CAN										
8430066.0 1984	FONTHILL	ON CAN	42.59	79.22	175	B(2)	N/A					
SPECIES 12.300	CATALPA SPECIOSA (catalpa)											
8130639.0 1983	HALDIMAND	ON CAN	43.00	79.50	B(10)		17.49	1984	76.0	PL		
SPECIES 14.200	GERCIS CANADENSIS (Redbud)											
80178.0	USA											
SPECIES 14.600	CHACAYA TRINERVIS											
8780168.0 1987	FL BOLSON, RIO NEGRO	ARG	41.30S	71.34	450	N/A	2.37					
SPECIES 15.100	CHAMAECYPARIS LAWSONIANA (Port-Orford-cedar)											
80004.0	FRA											
SPECIES 15.200	CHAMAECYPARIS NOOTKATENSIS (yellow cypress) Alaska cedar)											
8570216.0 1985	MANAIHO RIVER TATORUS	BC CAN	49.06	123.53	N/A		5.52	1986	53.5			
8570217.0 1985	SPARTON LAKE	BC CAN			N/A		3.89	1986	55.0			
SPECIES 20.200	FAGUS GRANDIFOLIA (American beech)											
87730177.0 1987	P.N.F.T.	ON CAN	46.00	77.27	180	S	151.65	1987	63.0			
87730178.0 1987	P.N.F.T.	ON CAN	46.00	77.27	180	S	196.35	1987	9.0			
8830126.0 1988	P.N.F.T.	ON CAN	46.00	77.26	S		201.00					
8830127.0 1988	P.N.F.T.	ON CAN	45.58	77.26	S		105.4					
8830129.0 1988	P.N.F.T.	ON CAN	45.58	77.32	S		184.42					
8830130.0 1988	P.N.F.T.	ON CAN	45.58	77.32	S		201.88					
SPECIES 20.400	FAGUS SYLVATICA (European beech)											
8980095.0 1989	ENRIO DISTRICT	SWE	57.41	15.00E	250	B	163.81					
SPECIES 20.700	FITZROYA CUPRESSOIDES (Patagonian cypress)											
8780166.0 1987	FL BOLSON, RIO NEGRO	ARG	41.5BS	71.35	280	N/A	0.90					
SPECIES 21.100	FRAXINUS AMERICANA (white ash)											
5630560.0 1956	P.N.F.T.	ON CAN	45.59	77.26	180	N/A						
7433330.0 1974	CHENAUX	ON CAN	45.35	76.41	90	S	54.30					
7433350.0 1974	CHENAUX	ON CAN	45.35	76.41	90	S	63.10					

SEEDBANK NUMBER	YEAR	PROVENANCE	PU	CTRY	LAT	LONG (°)	TYPE	COLL	1000 Sdwt	TEST	% GERM	% REMARKS
743370.0	1974	CHENAUX	ON	CAN	45.35	76.41	90	S	54.50			
725390.0	1977	ROUGE RIVIERE	PG	CAN	45.51	74.36	180	S				
723550.0	1977	ROSS TOWNSHIP	ON	CAN	45.35	76.41	110	S				
7732680.0	1977	RAMSAY TOWNSHIP	ON	CAN	45.10	76.17	150	N/A				
7732710.0	1977	DARP RIDGE	ON	CAN	45.22	76.02	120	S	59.96			
7732750.0	1977	CORNWALL TOWNSHIP	ON	CAN	45.09	74.51	90	S	54.84			
7732800.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	59.04			
7732860.0	1977	HARVEY TOWNSHIP	ON	CAN	44.40	78.21	300	S				
7732890.0	1977	RONDEAU PROV. PARK	ON	CAN	42.16	81.51	170	S	45.58			
7733110.0	1977	WINDHAM TOWNSHIP	ON	CAN	42.56	80.26	230	S				
7733120.0	1977	WINDHAM TOWNSHIP	ON	CAN	42.53	80.22	230	S				
7733130.0	1977	WOODHOUSE TOWNSHIP	ON	CAN	42.49	80.16	200	S				
7733160.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S	55.04			
7733170.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S	43.58	1984	32.0	
7733180.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S	57.23	1984	22.7	
7733200.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S				
7733220.0	1977	FORT ERIE	ON	CAN	42.50	78.50	170	S	62.51	1984	14.7	
7733230.0	1977	BEVERLY TOWNSHIP	ON	CAN	43.20	80.05	275	S	69.30			
7733260.0	1977	BLENHEIM TOWNSHIP	ON	CAN	43.18	80.35	300	S				
7733290.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.35	81.19	300	S				
7733300.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.55	81.19	300	S	53.12	1984	52.0	
7733330.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.35	81.19	300	S	57.26	1984	61.3	
7733350.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.55	81.19	300	S				
7733360.0	1977	BLUNDANON	ON	CAN	43.52	81.35	244	S	53.14	1984	28.0	
7733380.0	1977	BLUNDANON	ON	CAN	43.52	81.35	244	S	57.99	1984	54.7	
7733190.0	1977	BENMILLER	ON	CAN	43.36	81.37	244	S				
7733400.0	1977	BENMILLER	ON	CAN	43.34	81.36	244	S	62.32	1984	17.5	
7733420.0	1977	TURNBERRY TOWNSHIP	ON	CAN	44.26	81.12	244	S	45.48	1984	62.2	
7733430.0	1977	TARA	ON	CAN	44.26	81.12	244	S	51.11	1984	46.7	
7733450.0	1977	TARA	ON	CAN	44.26	81.12	244	S	49.54	1984	37.3	
7733151.0	1977	BOONDR	ON	CAN	44.31	80.45	244	S				
7733570.0	1977	BLUEWATER BEACH	ON	CAN	44.37	79.58	213	S	43.37			
7733580.0	1977	BLUEWATER BEACH	ON	CAN	44.37	79.58	213	S	52.86	1984	18.7	
7733590.0	1977	BLUEWATER BEACH	ON	CAN	44.37	79.58	213	S				
7733600.0	1977	TERRA NOVA	ON	CAN	44.34	80.03	274	S				
7733630.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733650.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733670.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733680.0	1977	SIBBALT	ON	CAN	44.03	79.16	335	S				
7733690.0	1977	SIBBALT	ON	CAN	44.17	79.14	213	S				
7733700.0	1977	SIBBALT	ON	CAN	44.17	79.14	213	S				
7733720.0	1977	SIBBALT	ON	CAN	43.58	78.55	305	S				
7733740.0	1977	SIBBALT	ON	CAN	44.01	79.09	305	S				
7733750.0	1977	SIBBALT	ON	CAN	44.01	79.09	305	S				
7733770.0	1977	SIBBALT	ON	CAN	44.17	79.22	213	S				
7733780.0	1977	ELIZABETHVILLE	ON	CAN	44.01	78.26	152	S				
7733830.0	1977	ELIZABETHVILLE	ON	CAN	44.00	78.25	213	S				
7733840.0	1977	ELIZABETHVILLE	ON	CAN	43.59	78.21	91	S				
7733850.0	1977	RICE LAKE	ON	CAN	44.14	78.08	213	S				
7733860.0	1977	RICE LAKE	ON	CAN	44.14	78.08	213	S				

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PU	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt	TEST	% GERM	REMARKS	
7733870.0	1977	RICE LAKE	ON	CAN	44.15	78.06	213	S					
7733880.0	1977	RICE LAKE	ON	CAN	44.15	78.06	213	S					
7733890.0	1977	RICE LAKE	ON	CAN	44.16	78.05	213	S					
7735950.0	1977	CUMBERLAND	ON	CAN	45.31	75.23	30	S					
7735960.0	1977	CUMBERLAND	ON	CAN	45.31	75.23	30	S					
7739266.0	1977	CORNHALL TOWNSHIP	ON	CAN	45.09	74.51	90	B(2)					
9130013.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	5				45.13		
9130014.0	1991	LAKE DORE	ON	CAN	45.35	77.04	5				41.53		
9130015.0	1991	CORMAC	ON	CAN	45.29	77.26	5				42.22		
9130016.0	1991	CHALK RIVER	ON	CAN	46.03	77.22	5				58.25		
9130017.0	1991	CORMAC	ON	CAN	45.29	77.26	5				37.99		
9130018.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	5				48.32		
9130019.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	5				57.34		
9130020.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	5				40.92		
9130021.0	1991	LAKE DORE	ON	CAN	45.35	77.04	5				52.36		
9130022.0	1991	CHALK RIVER	ON	CAN	46.03	77.22	5				59.74		
9130062.0	1991	MATNFLEET	ON	CAN	43.00	79.28	180	B			22.14		
SPECIES	21.150	FRAXINUS CHINENSIS											
8380668.0	1983	BEIJING MUNICIPALITY	CHN		40.00	116.00E	42	N/A			30.16	1985	71.5
SPECIES	21.200	FRAXINUS EXCELSIOR (European ash)											
8580107.0	1985	GRAFTING CHEMIN FOREST	FRA		48.11	5.35E	350	N/A			59.87		
8880707.0	1988	SUINHULT DISTRICT	SWE		57.45	15.25E	230	B(10)			74.40		
SPECIES	21.400	FRAXINUS NIORA black (swamp) ash											
5630570.0	1956	P.N.F.I.	ON	CAN	46.00	77.27	150	S			69.64	1984	0.1
5930660.0	1959	P.N.F.I.	ON	CAN	45.56	77.33	180	N/A			83.26	1984	0.1
8830125.0	1988	CARIBOU CREEK	ON	CAN	45.10	77.30	8(2)				61.74		
9130028.0	1991	P.N.F.I.	ON	CAN	46.00	77.26	5				67.94		
9130029.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	5				69.60		
9130030.0	1991	CHALK RIVER	ON	CAN	46.02	77.30	5				67.00		
9130031.0	1991	P.N.F.I.	ON	CAN	46.00	77.27	5				64.19		
9130032.0	1991	P.N.F.I.	ON	CAN	46.00	77.26	5				55.92		
9130033.0	1991	P.N.F.I.	ON	CAN	46.00	77.26	B(3)				62.83		
SPECIES	21.500	FRAXINUS PENNSYLVANICA (red ash)											
7733970.0	1977	OBOGOOE TOWNSHIP	ON	CAN	45.13	75.34	90	S			37.27	1986	46.0
7733990.0	1977	OBOGOOE TOWNSHIP	ON	CAN	45.13	75.34	90	S			47.26	1984	56.0
7734000.0	1977	OBOGOOE TOWNSHIP	ON	CAN	45.13	75.34	90	S			42.87	1986	23.5
7734010.0	1977	OBOGOOE TOWNSHIP	ON	CAN	45.13	75.34	90	S			47.32	1984	51.0
7734020.0	1977	DRUMMOND TOWNSHIP	ON	CAN	44.58	76.20	150	S			38.82	1984	55.5
7734040.0	1977	DRUMMOND TOWNSHIP	ON	CAN	44.58	76.20	150	S			49.38	1984	62.0
7734050.0	1977	DRUMMOND TOWNSHIP	ON	CAN	44.58	76.20	150	S			35.56	1984	57.0
7734070.0	1977	ROXBOROUGH TOWNSHIP	ON	CAN	45.12	74.55	90	S			56.67	1984	60.5
7734080.0	1977	ROXBOROUGH TOWNSHIP	ON	CAN	45.12	74.55	90	S			31.93	1986	29.0
7734090.0	1977	ROXBOROUGH TOWNSHIP	ON	CAN	45.12	74.55	90	S			50.02	1984	49.0
7734150.0	1977	WILLIAMSBURG TOWNSHIP	ON	CAN	44.50	75.11	80	S			37.52	1984	32.0
7734160.0	1977	WILLIAMSBURG TOWNSHIP	ON	CAN	44.50	75.11	80	S			40.31	1984	43.0

SEEDBANK NUMBER	YEAR Cult.	PROVENANCE	PV	CTRY	LAT	LONG (°)	ELEV COLL (m)	COLL TYPE	1000 Sdwt.	YEAR TEST	% BERN	REMARKS
7734210.0	1977	OXFORD TOWNSHIP	ON	CAN	44.52	75.40	90	S	33.98	1986	53.0	
7734230.0	1977	SOPERTON	ON	CAN	44.37	76.03	90	S	37.70	1984	55.0	
7734240.0	1977	SOPERTON	ON	CAN	44.37	76.03	90	S	39.85	1984	16.5	
7734270.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	35.92	1984	20.0	
7734280.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	27.70	1984	57.5	
7734290.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	44.12	1984	53.0	
7734310.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	30.38	1984	70.0	
7734460.0	1977	ELZEVIR TOWNSHIP	ON	CAN	44.34	77.16	150	S	25.73	1984	57.0	
7734491.0	1977	ELZEVIR TOWNSHIP	ON	CAN	44.34	77.16	150	S	27.58	1984	29.3	
7734492.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	41.29	1986	30.5	
7734493.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	38.27	1986	18.0	
7734494.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	41.10	1986	33.5	
7734495.0	1977	RONDÉAU PROV. PARK	ON	CAN	42.07	81.51	180	S	35.14	1984	63.0	
7734496.0	1977	RONDÉAU PROV. PARK	ON	CAN	42.07	81.51	180	S	24.53	1984	30.0	
7734497.0	1977	RONDÉAU PROV. PARK	ON	CAN	42.07	81.51	180	S	30.94	1984	46.5	
7734520.0	1977	KINGSCOURT	ON	CAN	42.56	81.57	210	S	29.76	1986	47.3	
7734530.0	1977	KINGSCOURT	ON	CAN	42.56	81.57	210	S	28.12	1986	11.0	
7734560.0	1977	KINGSCOURT	ON	CAN	42.56	81.57	210	S	35.67	1986	39.5	
7734580.0	1977	BLAINEHILL	ON	CAN	42.19	81.57	180	S	38.92	1984	54.0	
7734600.0	1977	FORT BURWELL	ON	CAN	42.41	80.49	210	S	51.68	1985	23.0	
7734620.0	1977	FORT BURWELL	ON	CAN	42.41	80.49	210	S	37.93	1986	26.5	
7734660.0	1977	NORWICH	ON	CAN	42.59	80.33	213	S	39.68	1984	45.4	
7734730.0	1977	FORT DOVER	ON	CAN	42.51	80.10	213	S	39.08	1984	58.7	
7734750.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.14	79.10	76	S	53.55	1986	53.5	
7734780.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.14	79.10	76	S	38.13	1986	21.0	
7734790.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.14	79.10	76	S	34.08	1984	44.0	
7734830.0	1977	WAINFLEET	ON	CAN	42.86	79.23	9	S	36.71	1984	48.0	
7734880.0	1977	WESTOVER	ON	CAN	43.20	80.05	244	S	26.07	1984	63.0	
7734890.0	1977	WESTOVER	ON	CAN	43.20	80.05	244	S	27.60	1984	35.0	
7734910.0	1977	WASHINGTON	ON	CAN	43.17	80.34	274	S	37.30	1986	26.0	
7735010.0	1977	BODNOR	ON	CAN	44.31	80.47	244	S	47.36	1986	24.5	
7735020.0	1977	BODNOR	ON	CAN	44.31	80.47	244	S	31.40	1986	24.0	
7735030.0	1977	BEAUFORD	ON	CAN	44.35	80.32	183	S	33.45	1986	16.0	
7735040.0	1977	BEAUFORD	ON	CAN	44.35	80.32	183	S	36.19	1986	58.5	
7735050.0	1977	BEAUFORD	ON	CAN	44.35	80.31	183	S	34.62	1986	24.0	
7735060.0	1977	BEAUFORD	ON	CAN	44.35	80.31	183	S	36.12	1984	62.0	
7735070.0	1977	BEAUFORD	ON	CAN	44.35	80.31	183	S	33.02	1985	32.0	
7735100.0	1977	COLDWATER	ON	CAN	44.43	79.37	183	S	36.28	1986	5.5	
7735110.0	1977	COLDWATER	ON	CAN	44.43	79.37	183	S	57.52	1986	22.5	
7735140.0	1977	TINY MARSH	ON	CAN	44.36	79.56	213	S	21.10	1984	43.5	
7735170.0	1977	TINY MARSH	ON	CAN	44.36	79.56	213	S	34.88	1984	65.3	
7735190.0	1977	STOUFFVILLE	ON	CAN	43.57	79.14	213	S	41.45	1984	51.6	
7735200.0	1977	STOUFFVILLE	ON	CAN	43.57	79.14	213	S	36.78	1985	32.0	
7735220.0	1977	GAMEBRIDGE	ON	CAN	44.31	79.10	213	S	30.38	1986	20.0	
7735230.0	1977	GAMEBRIDGE	ON	CAN	44.31	79.10	213	S	31.41	1986	8.5	
7735280.0	1977	CANTON	ON	CAN	43.59	78.21	152	S	33.19	1986	15.5	
7736000.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	38.78	1985	32.0	
7736100.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	25.74	1986	27.0	
7736030.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	23.94	1986	40.0	
7736040.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	29.59	1984	79.0	
7739262.0	1977	OXFORD TOWNSHIP	ON	CAN	44.52	75.40	90	S	34.52	1986	32.5	
7739263.0	1977	WINGHAM	ON	CAN	43.55	81.23	305	E(4)	35.66	1986	36.5	
7739264.0	1977	TINY MARSH	ON	CAN	44.36	79.56	213	E(3)	35.98	1986	46.5	

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt	TEST GERM	% REMARKS
8330071.0	1983	THOROLD	ON	CAN	43.07	79.22	6	44.32	1984	51.0	
9130023.0	1991	PETAWAWA POINT	ON	CAN	45.55	77.15	5	39.44			
9130024.0	1991	PETAWAWA POINT	ON	CAN	45.55	77.15	5	59.68			
9130026.0	1991	CORMAC	ON	CAN	45.28	77.27	5	50.46			
9130027.0	1991	LAKE DORE	ON	CAN	45.36	77.04	5	50.37			
SPECIES	26,200	JUGLANS CINEREA (butternut)									
8430059.0	1984	FONTHILL	ON	CAN	43.04	79.20	205 (3)		7722.25		
8430065.0	1984	FORESTERS FALLS	ON	CAN	45.42	76.42	150	S			
9030042.0	1990	PEMBROKE	ON	CAN	45.49	77.07	110	S	10407.85		
SPECIES	26,400	JUGLANS NIGRA (black walnut)									
9030012.0	1990	WESTMEATH	ON	CAN	45.50	76.54	110	S			
9030041.0	1990	PERTH	ON	CAN	44.54	76.15	5		15189.47		
SPECIES	27,250	JUNIPERUS COMMUNIS (common Juniper)									
8930637.0	1989	CHALK RIVER	ON	CAN	46.03	77.22	5				
8930638.0	1989	CHALK RIVER	ON	CAN	46.03	77.22	5				
SPECIES	27,300	JUNIPERUS VIRGINIANA (eastern red cedar)									
8430004.0	1984	TRENTON	ON	CAN	44.08	77.35	75	S	12.68	1985	2.5
8431612.0	1984	BELLEVILLE	ON	CAN	44.10	77.25	90	S	11.60		
8431613.0	1984	BELLEVILLE	ON	CAN	44.11	77.22	90	S	13.23		
8431614.0	1984	BELLEVILLE	ON	CAN	44.10	77.25	90	S	13.73		
SPECIES	27,400	KOELREUTERIA PANICULATA (golden rain tree)									
8330021.0	1983	VINELAND	ON	CAN	43.09	79.23	90	S	156.32	1983	13.0 PL
SPECIES	27,600	KETTERERIA CHIEN-PETI FLOW									
7887020.0	1978	CHING-YEN, GUIZHOU PROV,	CHN		29.45	104.04E	1200	N/A	71.87	1984	0.1
SPECIES	28,100	LARIX DECIDUA (European larch)									
1180015.0		JAEGEBSBORG HEON FBI	DNK		55.49	12.23E	N/A		5.52	1989	46.2
7485230.0	1974	FARUM, RAUNSHOLT	DNK		55.49	12.30E	B	6.71	1989	28.0	PL-IMPROVED ALPS
7485240.0	1974	JAEGERSBORG	DNK		55.45	12.30E	B	7.28	1988	7.5	PL-IMPROVED SUDETAN
7485280.0	1974	EURUP, BUNDESSTR.	DEU				N/A	5.67	1988	42.5	PL -INT, SP, HYBRIDS
7289170.0	1977	MEDZYLESEJE FOR, JNSP.	POL		50.15	16.30E	500	B	5.87	1989	4.0
7983980.0	1979	CHOCHEN	CSK		50.00	16.18E	280	B	6.11	1989	32.0
7981990.0	1979	RUDA	CSK		50.00	16.54E	550	B	5.99	1989	42.0
8380649.0	1983	CESKY KRUMLOV, CHVALSINY	CSK		48.48	14.10E	520	N/A	6.33	1988	52.5
8380650.0	1983	RAJEC, LETOVICE	CSK		49.60	16.50E	440	N/A	5.73	1988	20.0
85310192.0	1985	OTTAWA	ON		45.19	75.38	100 (8)		5.44	1986	49.0
8580206.0	1985	TYN N, BEC+, FRENETAT	CSK		49.32	17.37E	320	B	5.33	1986	52.5
8580207.0	1985	BRNICKO, ZABREH	CSK		49.54	17.00E	420	B	5.06	1986	61.5
8580208.0	1985	ALBRECHTICE	CSK		50.10	17.33E	600		6.34	1986	48.0

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG (m)	ELEV Sdwt.	COLL TYPE	1000 TEST	YEAR TEST	% GERM	REMARKS
SPECIES 28.170	LARIX DECIDUA var. SUDETICA											
1180012.0	LITOUVEL, USQV	DNK					340	N/A	5.18	1989	21.2	
SPECIES 28.200	LARIX EUROLEPIS (Dunkeld larch)	DNK										
72005630.0	1972 HOLBAEK	DNK	56.33	10.19E	CP				3.50	1988	50.0	PL - IMP. JAP X ALPS
7485250.0	1974 JAP. BRAAK	DEU			B				4.97	1988	36.5	PL - HOSTLY HYBRIDS
7485260.0	1974 EURO., BUDINGEN	DEU			B				5.67	1988	6.0	PL -HOSTLY HYBRIDS
7485290.0	1974 FARFOLDEN	DNK	56.28	8.17E	CP				8.25	1988	13.0	PL - ALPS X JAP
7485320.0	1974 KLOSTERHEDEH	DNK	56.30	8.20E	B				7.72	1988	5.5	PL
7687820.0	1976 CATEGORY 3	DEU			B				5.93	1990	16.2	PL
SPECIES 28.300	LARIX BHELINI (Dahurian larch)	DNK										
7195500.0	1971 HEILONGJIANG PROVINCE	CHN	47.00	127.00E	B				4.28	1986	78.0	
7687900.0	1976 TARITI, ESTONIYA S.S.R.	SUN	58.23	26.49E	B				5.85	1988	40.0	
8081830.0	1980 YAKUTSKAYA A.S.S.R.	SUN	62.00	13.00E	B				3.62	1988	80.0	
9380678.0	1983 HU-LUN-PEI-ERH	CIN	50.00	124.00E	200	N/A			4.64	1989	84.5	
9481647.0	1984 AMUR, HEILONGJIANG PROV.	CHN	52.45	123.12E	N/A				4.32	1986	61.5	
SPECIES 28.400	LARIX LARICINA (tarasacki eastern larch)	DN										
7031510.0	1970 BISSETT CREEK	CAN	46.13	79.01	171	3			2.47	1988	71.2	
7031540.0	1970 BISSETT CREEK	ON	46.13	78.01	171	5			2.91	1988	91.8	
7031560.0	1970 SUPPLE LAKE	CAN	45.49	77.18	187	5			2.36	1988	10.0	
7031570.0	1970 SUPPLE LAKE	ON	45.49	77.18	187	5			2.22	1988	3.5	
7031580.0	1970 P.N.F.I.	ON	45.58	77.25	168	5			1.99	1988	22.8	
7031610.0	1970 P.N.F.I.	ON	45.58	77.25	168	5			2.54	1988	40.5	
7031620.0	1970 P.N.F.I.	ON	45.58	77.25	168	5			2.46	1988	19.0	
7031630.0	1970 SUPPLE LAKE	ON	45.49	77.18	187	5			1.74	1988	9.5	
7B31590.0	1978 P.N.F.I.	ON	45.50	77.24	160	N/A			1.80	1990	11.0	
7930150.0	1979 BORCAYGEON ROAD	ON	45.00	78.00	480	5			1.99	1989	97.3	
7930170.0	1979 BORCAYGEON ROAD	ON	45.00	78.46	480	5			2.03	1989	57.5	
7930280.0	1979 CORNWALL DIST. (60-6200)	ON	45.12	75.04	BO	B			2.15	1989	67.0	OMNR-RBR
7930290.0	1979 ROBERTSON LAKE	ON	45.12	76.36	275				2.66	1989	80.0	
7930310.0	1979 CARLSBAD SPRINGS	ON	45.22	75.28	R(25)				2.30	1990	79.5	
7930320.0	1979 BRUCESTER TOWNSHIP	ON	45.22	75.30	R(15)				2.30	1990	84.2	
7930350.0	1979 IONAGE TOWNSHIP	ON	49.25	91.40	450	5			1.84	1989	81.0	
7931590.0	1979 IONACE TOWNSHIP	ON	49.25	91.40	450	5			1.59	1989	72.0	
8233200.0	1982 CARELTON DISTRICT	ON	45.08	76.09	S				2.30	1990	3.0	
8820310.0	1988 ALBANEL	PO	48.53	72.27	S				2.62	1989	91.5	
8930635.0	1989 P.N.F.I.	ON	45.59	77.27	S				1.78	1990	68.0	
8930636.0	1989 P.N.F.I.	ON	45.58	77.27	S				2.22	1990	71.2	
SPECIES 28.500	LARIX LEPTOLEPIS (Japanese larch)	DNK										
1180011.0	SOESTRUP, F40D	DNK										
6682240.0	1966 HOKKAIDO PREFECTURE	JPN	43.00	141.30E	N/A				4.16	1989	1.0	PL
6682481.0	1966 TOKACHI DIST., HOKKAIDO	JPN	43.00	141.30E	B				5.48	1990	0.1	PL
6980500.0	1969 CENTRAL HONSHU	JPN	35.00	136.00E	B				4.18	1989	1.0	
7487514.0	1974 NAGANO PREFECTURE	JPN	35.47	137.52E	1700	N/A			3.53	1989	32.5	
7487515.0	1974 NAGANO PREFECTURE	JPN	36.23	138.32E	1750	N/A			4.09	1989	9.8	

SEEDBANK NUMBER	YEAR	COLL. PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Swt.	YEAR TEST	% GERM	REMARKS
74B7251.6, 0	1974	NAGANO PREFECTURE	JPN	35.55	138.18E	1700	N/A	4.21	1989	1.0		
74B7517.0	1974	GUNMA PREFECTURE	JPN	35.52	137.32E	1650	N/A	3.98	1989	20.5		
74B7518.0	1974	GUNMA PREFECTURE	JPN	36.27	138.23E	1800	N/A	3.57	1989	34.2		
76B7890.0	1976	TARTU, ESTONIA S.S.R.	SIN	58.23	26.49E	B	6.09	1984	20.8			
8530182.0	1985	BURRITS RAPIDS	DN	CAN	44.59	75.49	107 B(25)	4.63	1990	70.8	PL.	
SPECIES	28,700	LARIX OCCIDENTALIS (western larch)										
8470997.0	1984	FLATHEAD VALLEY	BC	CAN	49.04	114.24	1500	S	3.14	1990	20.5	
8470999.0	1984	FLATHEAD VALLEY	BC	CAN	49.04	114.24	1500	S	3.95	1990	16.0	
SPECIES	28,800	LARIX SIBIRICA (Siberian larch)										
85B0240.0	1985	KRAENZYARSKY KRAY	BUN				B	7.20	1990	76.2		
SPECIES	29,100	LIRIODENDRON TULIPIFERA (tulip-tree; yellow poplar)										
7932800.0	1978	FONTHILL	ON	CAN	43.02	79.17	215	N/A	43.33	1984	0.1	
8530067.0	1985	ARNER	ON	CAN	42.01	82.49	S	31.96	1985	6.5		
SPECIES	29,480	MAGNOLIA ACUMINATA (cucumber-tree)										
8430063.0	1984	PELHAM	ON	CAN	43.01	79.20	193	S	92.55			
SPECIES	30,200	MAYTENUS BOARIA										
8690129.0	1986	MES DE MARZO	ARG				N/A	19.55	1986	5.0		
87B0169.0	1987	EL BOLSÓN, RÍO NEGRO	ARG				N/A	23.25				
SPECIES	30,712	NOTHOFAGUS DOMEYI										
8690128.0	1986	MES DE MARZO	ARG				N/A	2.57	1986	7.0		
87B0171.0	1987	EL BOLSÓN, RÍO NEGRO	ARG				N/A	2.15	1987	5.0		
87B0172.0	1987	EL BOLSÓN, RÍO NEGRO	ARG				N/A	2.16	1987	15.5		
SPECIES	30,718	NOTHOFAGUS NERVOSEA										
87B0174.0	1987	S. M. ANDER, NEUQUEN	ARG	40.10S	71.20	1200	N/A	10.77	1987	77.0		
8791125.0			ARG				N/A	12.02				
SPECIES	30,720	NOTHOFAGUS OBLIQUE (oble beech)										
7993290.0	1979	NEUQUEN	ARG	38.00S	70.00		S	7.48	1985	19.5		
87B0173.0	1987	S. M. ANDES, NEUQUEN	ARG	40.10S	71.20	1200	N/A	7.01	1987	9.5		
8791124.0			ARG				N/A	6.61				
SPECIES	30,730	NOTHOFAGUS PUMILIO (clenstal; robe blanco)										
8190140.0	1981	TIERRA DEL FUEGO	ARG	54.00S	68.00		S	25.19	1984			
SPECIES	31,300	DETRYA VIRGINIANA (ironwood; hop-hornbeam)	DN	CAN	46.00	77.26	150	S	19.56	1985	0.1	

SEEDBANK NUMBER YEAR COLL. PROVENANCE PV CTRY LAT LONG ELEV COLL TYPE Sdwt TEST % GFRH REMARKS  
B430083.0 1984 F.N.F.I. ON CAN 46.00 77.26 150 H 20.24 1985 0.1

SPECIES 31.695 PAULOWNIA FARGESII

SPECIES	32.100	PICEA ABIES (Norway spruce)	CHN	32.00	120.00E	N/A	0.28	1985	82.5
6220010.0	1962	PRJECELY PLANTATIONS	PD	EON	59.48	12.34E	300	B	9.68 1989
6480280.0	1966	BRUKSFRO, GUNNARSKOG	SWE	SUE	59.48	12.34E	300	B	5.64 1990
67B1B10.0	1967	BRUKSFRO, GUNNARSKOG	SWE	SUE	59.48	12.34E	300	B	5.26 1987
68B0270.0	1968	TUANTJARN	SWE	SUE	60.48	16.45E	240	B	6.65 1991
68B0280.0	1968	CENTRAL FINLAND	FIN	FIN	62.00	24.00E	240	B	5.01 1989
73B3260.0	1973	GOSHA FOREST DISTRICT	ROM	ROM	27.00	45.00E	0	B	6.92 1989
74B6820.0	1974	PRIENI, LITUJA S.S.R.	SUN	SUN	54.12	23.51E	107	S	6.67 1989
74B6830.0	1974	VILNIUS, LITUJA S.S.R.	SUN	SUN	54.48	25.18E	150	S	6.84 1991
75B1500.0	1975	TARTU, ESTONIJA S.S.R.	SUN	SUN	58.22	26.46E	60	B	5.90 1989
79B6810.0	1978	ARCHANGEL'SKAYA OBLAST	SUN	SUN	65.45	43.14E	0	B	4.55 1989
78B6820.0	1978	VOLODODSKAYA OBLAST	SUN	SUN	59.11	38.00E	0	B	5.57 1989
78B6830.0	1978	KOSTROMSKAYA OBLAST	SUN	SUN	57.00	42.00E	0	B	4.95 1989
78B6840.0	1978	HALINOMSKAYA OBLAST	SUN	SUN	57.00	37.00E	0	B	6.90 1989
79B4110.0	1979	KOSTROMSKAYA OBLAST	SUN	SUN	58.00	41.00E	0	B	5.03 1987
79B5014.0	1979	RENNINGSTORP SEED ORCH.	SWE	SWE	0	0	0	B	55.8 PI.
80B2223.0	1980	UVLEDY, DOMAZLICE	CSK	CSK	49.24	12.48E	600	B	6.67 1986
80B2224.0	1980	KRALIU HOZDO, NYRSKO	CSK	CSK	49.14	13.10E	700	R	7.11 1990
80B2225.0	1980	LANY, NASKURSKY	CSK	CSK	49.43	15.56E	700	B	7.64 1990
80B2226.0	1980	HORNÍ BEČVA, RDZNIV	CSK	CSK	49.26	18.19E	680	B	7.40 1990
80B2227.0	1980	STARE HAMRY, OSTRAVICE	CSK	CSK	49.32	18.24E	740	B	6.86 1990
91B1010.0	1981	KALUZH'KAYA OBLAST	SUN	SUN	54.00	35.00E	0	B	5.89 1989
91B1574.0	1981	HORNÝ REJSTEJN, KASPERSKE	CSK	CSK	49.08	13.30E	740	B	6.86 1990
91B1575.0	1981	STRATNY, VIMPERK	CSK	CSK	49.55	13.43E	920	B	7.56 1990
91B1576.0	1981	CES, ZLEBY, PRACHATICE	CSK	CSK	49.53	13.48E	880	B	7.62 1990
91B1577.0	1981	HUTE, ROZMITAL P. T.	CSK	CSK	49.35	13.50E	0	B	7.45 1990
91B1578.0	1981	ULTAVA, CES, KRUMLOV	CSK	CSK	48.44	14.22E	780	B	7.46 1990
91B1579.0	1981	PROZDANY, PELHRIMOV	CSK	CSK	49.20	15.12E	710	B	7.06 1990
91B1580.0	1981	CIKHLA, NOVE MESTO	CSK	CSK	49.40	15.58E	730	B	7.39 1990
91B1581.0	1981	HERALEC, NOVE MESTO	CSK	CSK	49.41	16.00E	750	A	7.39 1990
91B1582.0	1981	DESTNE, DPOCNO	CSK	CSK	50.18	16.22E	900	B	7.81 1990
91B1583.0	1981	RICKY, RYCHNOV N. K.	CSK	CSK	50.13	16.29E	840	B	7.19 1986
91B1584.0	1981	NETRICHOV, BRUNTAL	CSK	CSK	49.50	17.26E	680	B	7.05 1986
92B6124.0	1982	VITKU KAMEN, VYSIĆ FROD	CSK	CSK	48.38	14.10E	860	B	7.53 1986
93B0651.0	1983	BUCHLOVICE, ROSTIN	CSK	CSK	49.20	17.40E	450	N/A	7.98 1986
93B0653.0	1983	ZVESTOVICE	CSK	CSK	49.60	14.30E	600	N/A	8.60 1986
94B0952.0	1984	O. AHOT	SWE	SWE	61.00	16.30E	250	N/A	4.69 1989
94B1410.0	1984	SEED ORCHARD-S21P8420002	SWE	SWE	48.59	18.35E	1740	B	10.29 1991
85B0283.0	1985	JAVORINKA	CSK	CSK	48.46	19.16E	1100	R	7.16 1991
85B0294.0	1985	LIUPCA, SLOVENSKA	CSK	CSK	47.44	25.24E	900	B	7.26 1991
85B0352.0	1985	MOLDOVITA	ROM	ROM	54.45	23.47E	140	B	7.39 1991
87B0777.0	1987	PRIFNALI, LITHUANIAN SSR	SUN	SUN	54.45	23.47E	0	B	7.39 1989

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PU	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SHUT	TEST	% GERM	REMARKS
87800778.0	1987	ROKTSKIS, LITHUANIAN SSR	SUN	55.50	25.20E	130	B	7,66	1989	40.0			
87800779.0	1987	KATLU-RUDA, LITHUANIAN SSR	SUN	54.25	23.35	120	B	7.54	1989	34.8			
8781128.0	1987	GOR ANSBERG	SWE	60.31	14.09E	275	B	5.38	1990	90.0			
8881180.0	1988	GRAVITA	ROM	45.10	22.10E	820	B	6.01	1991	40.0			
SPECIES	32,150	PICEA ASPERATA (dragon spruce) Chinese spruce)											
7886950.0	1978	LI-HSIEN, SZECHUAN PROV.	CHN	31.40	102.48E	3000	N/A	6.61	1984	84.0			
SPECIES	32,400	PICEA ENGELMANNII (Engelmann spruce)											
5980069.0	1971	CACHE NATIONAL FOREST	USA	42.00	113.30	B(50)		4.28	1989	30.5			
7161950.0	1971	HIGHWOOD SUMMIT	AB CAN	50.20	114.30	B(15)		1.88	1987	31.0			
7186160.0	1971	HUNGRY HORSE	MT USA	48.21	113.58	B(15)		2.50	1987	14.0			
8470992.0	1984	MASTION MOUNTAIN	BC CAN	50.52	119.09	B(50)		2.13	1990	66.0			
8470993.0	1984	ADAHS LAKE	BC CAN	51.30	119.30	B(12)		2.06	1990	55.0			
8572251.0	1985	NEWINGTON CREEK	BC CAN	49.15	116.70	B*		1.94	1990	98.0	B(30+)		
8871105.0	1988	AINSLEY CREEK	BC CAN	50.02	121.22	B*		2.21	1990	86.0	B(150+)		
SPECIES	32,500	PICEA GLAUCA (white spruce)											
243560.0	1956	LAKE ST. PATRICK	PO CAN	46.18	77.19	304	B	2.04	1987	25.0			
24690.0	1956	AYLER LAKE	PO CAN	45.59	71.22	304	S	2.32	1987	59.2			
24720.0	1956	PRICE	PO CAN	48.36	68.07	304	S	1.89	1987	44.8			
24770.0	1956	ASHLEY HINE	ON CAN	48.00	81.00	365	S	1.80	1987	27.2			
24840.0	1956	HITCHINAMEKUS LAKE	PO CAN	47.23	75.09	396	S	1.76	1987	24.5			
24850.0	1956	LAC SIMARD	PO CAN	47.32	78.37	274	S	2.00	1987	44.8			
26940.0	1960	A.F.E.S.	NR CAN	46.00	66.21	76	S	2.46	1987	63.2			
28700.0	1959	KAPUSKASING	ON CAN	48.55	82.47	259	S	2.22	1987	13.8			
2B950.0		GRANDES-PILES	PO CAN	46.43	73.05	365	S	2.45	1983	47.0			
51930.0		WESTMEATH TOWNSHIP	ON CAN	45.50	76.50	121	S	2.17	1987	60.2			
1130023.0	1953	ACROSS CANADA	ON CAN	45.50					2.23	1989	86.8		
5310010.0	1953	KLONDYKE ROAD	PE CAN	46.25	62.28	60	S	2.46	1987	41.0			
5530010.0	1955	ANGUS	ON CAN	44.15	79.55	220	N/A	2.69	1990	11.5			
5620220.0	1956	CASEY	PO CAN	47.53	74.31	N/A		1.65	1987	10.2			
5620290.0	1956	MHNALAY LAKE	PO CAN	46.32	76.30	243	N/A	2.12	1987	16.8			
5630260.0	1956	ALGOONOUTIN PARK	ON CAN	45.34	78.36	426	S	1.97	1987	76.5			
5630270.0	1956	HAYNOOTH	ON CAN	45.14	77.56	394	N/A	2.12	1990	10.8			
5630300.0	1956	HANITDOL IN ISLAND	ON CAN	45.50	82.55	205	N/A	2.11	1988	15.0			
5810010.0	1958	GYPSUM MINES	HS CAN	44.59	64.04	30	N/A	2.10	1987	71.2			
6030480.0	1960	F.N.F.I.	DN CAN	45.58	77.24	160	N/A	1.86	1990	28.8			
6430340.0	1964	P.N.F.I.	DN CAN	45.58	77.24	160	N/A	1.98	1990	0.4			
6530740.0	1965	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.76	1990	7.0			
6530760.0	1965	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.40	1987	50.5			
6531000.0	1965	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.14	1990	10.5			
6630010.0	1966	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	N/A	2.94	1990	28.8			
6630020.0	1966	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	N/A	3.24	1987	41.5			
6632390.0	1966	P.N.F.I.	ON CAN	45.58	77.24	160	S	1.98	1990	26.8			
6730660.0	1967	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.71	1990	30.2			
6730670.0	1967	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.92	1987	64.0			
6730680.0	1967	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.69	1987	83.8			
6730690.0	1967	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.10	1987	96.0			
6730700.0	1967	C.F.B. - BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.34	1986	39.2			

SEEDBANK NUMBER	YEAR GROW.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt.	YEAR TEST	GERM	% REMARKS
6730710.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.10	1987	70.0	
6730740.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.13	1990	43.5	
6730750.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.52	1990	65.8	
6730760.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.82	1990	56.5	
6730800.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.01	1987	15.2	
6730830.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	B	2.18	1988	79.8	
6731000.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.72	1989	85.5	
6731020.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.24	1989	BB.0	
6731030.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.59	1989	90.0	
6731050.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.53	1987	47.0	
6731060.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	1.51	1988	27.0	
6731110.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.44	1987	96.0	
6731120.0	1967	C.F.B. -	BURNT BRIDGE	ON CAN	46.00	77.20	182	S	2.47	1988	86.5	
6731800.0	1967	SAULT SITE. MARIE	ON CAN	46.31	84.20	N/A	N/A	2.05	1987	84.5		
6800190.0	1968	GANDER	NF CAN	48.57	54.45	91	B(10)	2.75	1970	10.0		
7000780.0	1970	GRAND FALLS	NF CAN	48.55	55.51	106	B(28)	2.76	1987	95.3		
7000790.0	1970	GRAND LAKE	NF CAN	48.53	57.36	45	B(32)	3.28	1987	BB.8		
7010750.0	1970	A.F.E.S.	NB CAN	46.00	66.21	76	N/A	2.33	1988	94.5		
7011120.0	1970	HARBOUR CENTRE	NS CAN	45.47	61.56	91	N/A	2.20	1987	90.0		
7011150.0	1970	ST. ANN'S	NS CAN	46.16	60.37	137	B(10)	2.41	1988	52.0		
7011160.0	1970	GLENGOE	NS CAN	45.57	61.19	167	B(7)	2.60	1987	63.2		
7011170.0	1970	DADETON	NB CAN	45.32	66.21	167	N/A	2.13	1987	91.0		
7020760.0	1970	ST. ELZEAR	PQ CAN	48.15	65.27	365	B(10)	2.35	1987	63.5		
7020770.0	1970	LAC-A-LA-TORTUE	PQ CAN	46.39	72.36	131	B(10)	2.08	1987	91.9		
7020800.0	1970	WATOPEKA FOREST	PQ CAN	45.35	71.54	243	B(5)	2.62	1987	01.8		
2030640.0	1970	BEACHBURG	ON CAN	45.40	76.47	137	S	2.27	1987	95.2		
2030670.0	1970	ALICE	ON CAN	45.45	77.18	182	S	2.55	1987	96.5		
2030700.0	1970	ALICE	ON CAN	45.45	77.18	182	S	2.03	1988	91.4		
2030730.0	1970	ALICE	ON CAN	45.45	77.18	182	S	3.20	1988	29.5		
2030740.0	1970	COCHRANE	ON CAN	49.10	81.15	265	N/A	2.22	1987	60.5		
7031130.0	1970	RANICK MINE	ON CAN	47.15	83.35	228	B(4)	2.21	1987	86.2		
7061820.0	1970	MORDEG	AB CAN	52.11	116.00	1372	N/A	2.20	1990	73.0		
7061830.0	1970	ROCKY MOUNTAIN HOUSE	AB CAN	52.35	115.15	762	N/A	2.60	1988	85.0		
7063220.0	1970	SLAVE LAKE	AB CAN	55.14	114.36	610	B	2.15	1988	0.2		
7072020.0	1970	SUNDOWN CREEK	BC CAN	55.20	120.40	1127	N/A	2.11	1987	39.2		
7073740.0	1970	PARROTT LAKES	BC CAN	54.11	126.40	823	B	1.92	1988	16.0		
2073760.0	1970	DAIGNON CREEK	BC CAN	55.15	123.05	914	B	2.00	1988	10.2		
7073800.0	1970	MCDAIME POST	BC CAN	59.10	129.15	762	B	1.97	1988	B.5		
7073820.0	1970	FORT FRASER	BC CAN	53.52	124.37	762	B	1.87	1988	8.2		
7073830.0	1970	LOWER POST	BC CAN	59.55	128.30	640	B	1.76	1988	17.0		
7100450.0	1971	PASADENA	NF CAN	49.01	57.37	45	N/A	2.91	1990	9.8		
7130500.0	1971	ALICE	ON CAN	45.45	77.18	182	N/A	2.65	1990	59.5		
7130510.0	1971	ALICE	ON CAN	45.45	77.18	182	N/A	2.18	1988	98.5		
7130560.0	1971	WHITNEY	ON CAN	45.31	78.15	457	S	2.50	1990	93.0		
7130570.0	1971	WHITNEY	ON CAN	45.31	78.15	457	N/A	2.69	1987	94.0		
7130580.0	1971	WHITNEY	ON CAN	45.31	78.15	457	S	2.61	1988	84.5		
7130590.0	1971	WHITNEY	ON CAN	45.31	78.15	457	N/A	2.50	1987	95.0		
7130600.0	1971	WHITNEY	ON CAN	45.31	78.15	457	N/A	2.36	1987	98.5		
7130610.0	1971	WHITNEY	ON CAN	45.31	78.15	457	B(4)	2.40	1990	62.0		
7130620.0	1971	WHITNEY	ON CAN	45.31	78.15	457	S	2.89	1987	95.2		
7130630.0	1971	WHITNEY	ON CAN	45.31	78.15	457	S	2.22	1987	92.5		
7130640.0	1971	WHITNEY	ON CAN	45.31	78.15	457	S	2.25	1987	80.2		
7130650.0	1971	WHITNEY	ON CAN	45.31	78.15	457	S	3.07	1989	94.0		

SEEDBANK NUMBER	YEAR END	PROVENANCE	FU	CTRY	LAT	LONG	FLFY (#)	COLL TYPE	1000 Sdwt	TEST	% DEBR	REMARKS
7130660-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	N/A	1.82	1988	94.0	
7130670-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	S	2.06	1988	2.8	
7130680-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	N/A	2.26	1988	0.6	
7130706-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	R(2)	2.49	1987	70.5	
7132350-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	S	2.10	1988	68.0	
7132380-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	S	2.82	1988	16.5	
7132440-0	1971	WHITNEY	DN	CAN	45.31	78.15	457	S	2.82	1988	91.0	
7132450-0	1971	TROUT GREEK	DN	CAN	45.59	79.27	335	S	2.39	1988	30.0	
7132460-0	1971	TROUT GREEK	DN	CAN	45.59	79.27	335	S	3.30	1988	72.5	
7132470-0	1971	TROUT GREEK	DN	CAN	45.59	79.27	335	S	3.49	1988	58.5	
7132520-0	1971	TROUT GREEK	DN	CAN	45.59	79.27	335	S	3.14	1988	10.2	
7132540-0	1971	TROUT GREEK	DN	CAN	45.59	79.27	335	S	2.33	1988	29.2	
7132550-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	2.01	1988	55.8	
7132560-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	1.99	1988	1.2	
7132570-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	2.16	1988	15.0	
7132580-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	2.40	1988	81.2	
7132590-0	1971	JOCJO RIVER	DN	CAN	46.36	79.10	304	S	2.27	1988	74.8	
7132620-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	1.93	1988	50.0	
7132630-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	2.19	1988	35.2	
7132640-0	1971	JOCKO RIVER	DN	CAN	46.36	79.10	304	S	3.38	1988	88.0	
7132650-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.47	1988	44.5	
7132660-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.20	1988	69.6	
7132670-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.28	1988	86.0	
7132690-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.86	1988	93.5	
7132700-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.05	1988	7.8	
7132710-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	1.80	1990	99.0	
7132720-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.18	1987	59.9	
7132730-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.10	1987	30.4	
7132740-0	1971	RUTHEROLEN	DN	CAN	46.17	79.04	228	S	2.36	1988	22.2	
7132790-0	1971	JOCKO RIVER	DN	CAN	46.14	80.43	213	S	2.21	1988	91.2	
7132810-0	1971	JOCKO RIVER	DN	CAN	46.14	80.43	213	S	1.54	1990	95.8	
7132840-0	1971	SEARCHMONT	DN	CAN	46.44	83.56	345	S	2.73	1988	69.0	
7132870-0	1971	SEARCHMONT	DN	CAN	46.44	83.56	345	S	2.46	1988	20.2	
7132980-0	1971	WAIA	DN	CAN	47.55	84.45	304	S	2.07	1988	29.0	
7133000-0	1971	BOUCHARD LAKE	DN	CAN	48.47	85.30	457	S	2.16	1987	97.8	
7133010-0	1971	BOUCHARD LAKE	DN	CAN	48.47	85.30	457	S	2.13	1988	50.2	
7133040-0	1971	BOUCHARD LAKE	DN	CAN	48.47	85.30	457	S	1.52	1988	44.5	
7133050-0	1971	BOUCHARD LAKE	DN	CAN	48.47	85.30	457	S	2.37	1987	96.2	
7133060-0	1971	BOUCHARD LAKE	DN	CAN	48.47	85.30	457	S	1.60	1988	2.5	
7133070-0	1971	BOUCHARD LAKE	DN	CAN	48.47	85.30	457	S	1.58	1988	26.5	
7133110-0	1971	PIGEON RIVER	DN	CAN	48.01	89.39	304	S	2.13	1988	38.0	
7133160-0	1971	PIGEON RIVER	DN	CAN	48.01	89.39	304	S	1.84	1988	19.3	
7133170-0	1971	SHEBANDOWAN	DN	CAN	48.37	90.11	457	S	2.70	1988	38.0	
7133190-0	1971	SHEBANDOWAN	DN	CAN	48.37	90.11	457	S	1.94	1988	17.8	
7133210-0	1971	SHEBANDOWAN	DN	CAN	48.37	90.11	457	S	2.05	1988	1.2	
7133220-0	1971	SHEBANDOWAN	DN	CAN	48.37	90.11	457	S	2.29	1988	56.2	
7133230-0	1971	EVA LAKE	DN	CAN	48.40	91.25	426	S	1.45	1988	19.3	
7133260-0	1971	EVA LAKE	DN	CAN	48.40	91.25	426	S	1.70	1988	21.0	
7133280-0	1971	EVA LAKE	DN	CAN	48.57	93.56	365	S	1.88	1988	11.5	
7133290-0	1971	EVA LAKE	DN	CAN	48.57	93.56	365	S	2.64	1990	94.2	
7133300-0	1971	MIPIGON	DN	CAN	49.12	88.13	228	S	2.03	1988	85.0	
7133400-0	1971	FINLAND	DN	CAN	48.57	93.56	365	S	1.54	1987	84.0	
7133410-0	1971	FINLAND	DN	CAN	48.57	93.56	365	S	2.64	1990	94.2	

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdut.	YEAR TEST	% GERM	REMARKS
7133420.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.88	1987	95.0	
7133430.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.64	1987	88.5	
7133440.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.86	1988	68.2	
7133450.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.64	1987	98.5	
7133460.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.63	1987	98.5	
7133470.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.78	1990	19.5	
7133480.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	1.87	1987	96.8	
7133490.0	1971	FINLAND		ON	CAN	48.57	93.56	365	S	2.16	1987	73.8	
7133500.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.05	1988	21.9	
7133510.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.17	1988	95.2	
7133520.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.01	1988	64.5	
7133530.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.13	1988	84.8	
7133540.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.67	1988	34.5	
7133550.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	1.94	1988	35.2	
7133560.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	1.88	1988	11.0	
7133580.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.07	1988	65.2	
7133590.0	1971	SIOUX NARROWS		ON	CAN	49.30	94.04	335	S	2.41	1988	25.5	
7133610.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	1.83	1988	56.5	
7133620.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	2.36	1987	88.5	
7133630.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	1.80	1988	47.8	
7133640.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	2.19	1988	93.5	
7133650.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	2.14	1988	93.5	
7133660.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	1.64	1988	86.0	
7133670.0	1971	KENORA		ON	CAN	49.45	94.36	365	S	1.70	1987	93.0	
7133700.0	1971	RAINY LAKE		ON	CAN	48.42	93.03	335	S	2.01	1988	28.0	
7133710.0	1971	RAINY LAKE		ON	CAN	48.42	93.03	335	S	1.95	1988	3.5	
7133720.0	1971	RAINY LAKE		ON	CAN	48.42	93.03	335	S	2.11	1988	17.8	
7133730.0	1971	RAINY LAKE		ON	CAN	48.42	93.03	335	S	1.87	1988	4.5	
7133780.0	1971	CAMP ROBBINS		ON	CAN	50.10	93.15	365	S	2.73	1988	48.8	
7133860.0	1971	SIOUX LOOKOUT		ON	CAN	50.07	91.50	381	S	2.66	1988	47.0	
7133940.0	1971	FAR FALLS		ON	CAN	50.40	93.12	365	S	2.57	1988	0.3	
7133920.0	1971	FAR FALLS		ON	CAN	50.40	93.12	365	S	2.24	1988	3.0	
7133930.0	1971	FAR FALLS		ON	CAN	50.40	93.12	365	S	2.32	1988	10.3	
7134050.0	1971	RED LAKE		ON	CAN	51.02	93.48	365	S	2.35	1987	72.1	
7134100.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	1.79	1987	89.5	
7134110.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	1.42	1990	72.0	
7134120.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	2.18	1988	29.0	
7134130.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	2.22	1988	54.1	
7134140.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	2.04	1990	50.0	
7134150.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	1.68	1990	88.5	
7134160.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	2.02	1988	58.0	
7134170.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	2.20	1988	10.8	
7134180.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	1.66	1988	83.0	
7134190.0	1971	BLACK STURGEON LAKE		ON	CAN	49.30	89.03	274	S	1.74	1988	78.0	
7135630.0	1971	CLIFTE TOWNSHIP		ON	CAN	49.05	81.15	289	N/A	2.21	1990	13.2	
7136210.0	1971	FOLEYET		ON	CAN	48.15	82.00	289	N/A	1.94	1987	77.8	
7151010.0	1971	MEADOW LAKE		SK	CAN	53.50	108.40	640	B(5)	2.15	1988	45.8	
7230770.0	1972	SAND L. ROAD		ON	CAN	45.50	77.20	182	S	2.65	1990	50.8	
7230780.0	1972	C.F.R. - BURNT BRIDGE		ON	CAN	46.00	77.20	182	S	3.64	1987	73.5	
7230790.0	1972	SAND LAKE ROAD		ON	CAN	45.50	77.20	182	S	2.37	1988	91.0	
7230800.0	1972	SAND LAKE ROAD		ON	CAN	45.50	77.20	182	N/A	2.51	1988	42.7	
7230810.0	1972	C.F.B. - BURNT BRIDGE		ON	CAN	46.00	77.20	182	S	2.94	1988	59.5	
7230820.0	1972	BEACHBURG		ON	CAN	45.45	76.50	137	N/A	3.39	1988	79.2	

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdut	YEAR TEST	Z BERT	REMARKS
72230830.0	1972	BEACHBURG	ON	CAN	45,45	76,50	137	N/A		3,02	1987	89,3	
72230850.0	1972	BEACHBURG	ON	CAN	45,45	76,50	137	S		2,89	1988	75,8	
72230860.0	1972	BEACHBURG	ON	CAN	45,45	76,50	150	S		2,38	1990	44,0	
72230870.0	1973	C.F.B. - BURNT BRIDGE	ON	CAN	46,00	77,20	150	S		2,88	1987	81,2	
72230880.0	1972	C.F.B. - BURNT BRIDGE	ON	CAN	46,00	77,20	182	S		2,64	1988	68,0	
72230890.0	1977	DAVIS MILLS	ON	CAN	45,45	77,15	152	S		2,74	1988	53,5	
72231050.0	1972	RANKIN	ON	CAN	45,45	77,10	152	S		3,22	1987	57,0	
72231140.0	1972	TRYTHE GREEK	ON	CAN	44,55	78,05	365	S		2,63	1988	65,8	
72231160.0	1972	IRVINE CREEK	ON	CAN	44,55	78,05	365	S		3,21	1988	27,5	
72231230.0	1972	TRYTHE CREEK	ON	CAN	44,55	78,05	365	B(3)		2,69	1987	82,5	
72231270.0	1972	APSLEY	ON	CAN	44,45	78,08	365	N/A		1,93	1988	89,5	
72232640.0	1972	NATRN TOWNSHIP	ON	CAN	46,20	81,41	243	S		2,31	1988	62,5	
72330690.0	1973	NEEDLE LAKE	ON	CAN	49,57	92,31	396	S		2,06	1990	45,8	
72330850.0	1973	UPSALA	ON	CAN	49,04	90,31	487	S		2,17	1988	6,2	
72331230.0	1973	UPSALA	ON	CAN	49,04	90,31	487	S		2,22	1988	18,0	
72330880.0	1973	UPSALA	ON	CAN	49,04	90,31	487	S		2,12	1988	6,0	
72331060.0	1973	ICHTY LAKE	ON	CAN	50,48	93,08	381	S		1,99	1988	18,7	
72333350.0	1973	EAR FALLS	ON	CAN	50,47	93,22	381	B		2,22	1987	82,8	
72333360.0	1973	RED LAKE	ON	CAN	51,06	93,46	396	S		2,17	1988	31,8	
72333370.0	1973	WHITE RIO FALLS	ON	CAN	50,07	94,52	350	B		2,16	1987	78,2	
72341260.0	1973	RIVERTON	MB	CAN	51,00	92,00	213	B		2,52	1988	16,0	
72341270.0	1973	BERNIE LAKES	MB	CAN	50,25	95,36	274	B		2,31	1990	96,0	
72341280.0	1973	ANGLE INLET	MB	CAN	49,19	95,20	335	B		2,11	1987	93,5	
72341290.0	1973	WEST HAWK LAKE	MB	CAN	49,42	95,15	335	B		2,14	1988	91,5	
72350190.0	1973	MEADOW LAKE	SK	CAN	54,10	108,19	N/A			2,18	1984	12,0	
74430410.0	1974	P.N.F.I.	ON	CAN	46,00	77,26	160	S		2,53	1988	88,2	
74430420.0	1974	P.N.F.I.	ON	CAN	46,00	77,26	160	S		2,08	1988	91,8	
74430430.0	1974	P.N.F.I.	ON	CAN	46,00	77,26	160	S		1,87	1988	96,2	
74430440.0	1974	P.N.F.I.	ON	CAN	46,00	77,26	160	S		2,24	1988	96,8	
74430450.0	1974	P.N.F.I.	ON	CAN	45,58	77,24	160	S		2,58	1985	93,0	
74430500.0	1974	P.N.F.I.	ON	CAN	46,00	77,26	160	S		2,07	1988	7,0	
74430540.0	1974	DOUGLAS	ON	CAN	45,30	77,01	121	S		2,57	1985	95,0	
74430570.0	1974	DOUGLAS	ON	CAN	45,30	77,00	121	S		2,01	1988	99,0	
74430580.0	1974	DOUGLAS	ON	CAN	45,30	77,01	121	S		2,31	1990	21,2	
74430590.0	1974	DOUGLAS	ON	CAN	45,33	77,00	121	S		2,95	1988	86,0	
74430600.0	1974	DOUGLAS	ON	CAN	45,33	77,00	121	S		2,66	1988	89,0	
74430570.0	1974	DOUGLAS	ON	CAN	45,33	77,00	121	S		2,24	1988	79,8	
74430610.0	1974	DOUGLAS	ON	CAN	45,33	77,00	121	S		2,02	1988	86,8	
74430650.0	1974	DOUGLAS	ON	CAN	45,33	77,00	121	S		2,40	1988	85,8	
74430660.0	1974	DOUGLAS	ON	CAN	45,38	77,04	152	S		2,07	1975	96,0	
74430670.0	1974	RENFREW	ON	CAN	45,28	76,38	121	S		2,80	1990	88,0	
74430680.0	1974	RENFREW	ON	CAN	45,28	76,44	121	S		3,46	1988	88,0	
74430710.0	1974	RENFREW	ON	CAN	45,28	76,44	121	S		2,69	1988	98,5	
74430750.0	1974	RENFREW	ON	CAN	45,19	76,11	121	S		2,32	1988	87,2	
74430810.0	1974	ANTRIM	ON	CAN	45,19	76,11	121	S		2,17	1988	93,0	
74430850.0	1974	ANTRIM	ON	CAN	45,19	76,11	121	S		2,85	1988	39,8	
74430870.0	1974	ANTRIM	ON	CAN	45,06	77,58	381	S		2,29	1988	87,2	
74430940.0	1974	BANCROFT	ON	CAN	45,06	77,58	381	S		1,99	1988	80,2	
74430950.0	1974	BANCROFT	ON	CAN	45,06	77,58	381	S		1,90	1988	94,8	
74430970.0	1974	BANCROFT	ON	CAN	45,06	78,02	394	S		1,96	1988	76,5	

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt	YEAR TEST	% GERM	REMARKS
7431000.0	1974	BANCROFT	ON CAN	45.06	78.07	396	S	1.87	1988	96.8			
7431010.0	1974	BANCROFT	ON CAN	45.06	78.02	396	S	1.72	1990	70.2			
7431020.0	1974	BANCROFT	ON CAN	45.06	78.02	396	S	2.57	1988	93.2			
7431030.0	1974	BANCROFT	ON CAN	45.06	78.02	396	S	3.37	1990	97.0			
7431040.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.80	1988	97.4			
7431050.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.47	1988	94.0			
7431060.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.14	1988	97.5			
7431070.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.32	1990	72.5			
7431080.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.39	1990	17.5			
7431090.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.40	1988	92.0			
7431100.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.57	1990	67.2			
7431110.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.23	1988	43.2			
7431120.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.62	1988	58.9			
7431130.0	1974	APSLEY	ON CAN	44.55	78.04	365	S	2.60	1988	98.0			
7431150.0	1974	SILVER LAKE	ON CAN	44.49	76.41	182	S	2.15	1988	92.0			
7431200.0	1974	SILVER LAKE	ON CAN	44.49	76.41	182	S	2.64	1988	72.7			
7431240.0	1974	SILVER LAKE	ON CAN	44.49	76.41	182	S (10)	2.20	1985	89.5			
7431250.0	1974	SILVER LAKE	ON CAN	44.49	76.41	182	S	2.77	1990	97.0			
7431260.0	1974	SILVER LAKE	ON CAN	44.49	76.41	182	S	2.17	1987	99.5			
7431270.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.82	1989	42.5			
7431280.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.63	1985	95.5			
7431300.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.94	1985	91.0			
7431310.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.21	1988	96.2			
7431320.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.36	1988	98.0			
7431330.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.38	1988	98.0			
7431340.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.09	1987	99.0			
7431350.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.77	1989	88.5			
7431360.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.42	1988	94.2			
7431370.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.67	1987	98.7			
7431380.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.12	1989	95.0			
7431390.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.09	1987	97.0			
7431400.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.41	1987	88.0			
7431410.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.06	1988	87.8			
7431420.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.31	1987	98.0			
7431430.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.94	1985	99.5			
7431440.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.41	1987	88.0			
7431450.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.25	1985	96.0			
7431460.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.47	1990	76.5			
7431470.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.97	1988	95.4			
7431480.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.76	1990	98.2			
7431490.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.53	1985	99.5			
7431510.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.98	1988	98.3			
7431520.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.67	1990	20.5			
7431530.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.22	1985	93.0			
7431540.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	1.95	1988	44.7			
7431550.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.32	1988	99.2			
7431560.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	3.44	1988	97.5			
7431570.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.18	1987	87.9			
7431580.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.20	1985	87.9			
7431590.0	1974	WHITEY	ON CAN	45.32	78.16	396	S	2.02	1987	99.0			

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Swt.	YEAR TEST	% GERM	REMARKS
7431640.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.32	1985	98.0	
7431650.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.85	1988	99.0	
7431660.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.15	1987	99.0	
7431670.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.19	1987	90.5	
7431680.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.93	1985	92.0	
7431690.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.32	1988	85.5	
7431700.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.90	1985	92.5	
7431710.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.98	1987	98.8	
7431720.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.31	1985	93.5	
7431730.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.31	1987	98.5	
7431860.0	1974	BEACHBURG	ON	CAN	45.44	76.51	152	S	2.32	1985	97.0	
7431910.0	1974	P.N.F.I.	ON	CAN	45.59	77.27	162	S	3.96	1988	71.0	
7431930.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.15	1985	91.4	
7431950.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	1.98	1988	53.0	
7431960.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.34	1988	67.8	
7431970.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	1.89	1988	57.2	
7431980.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.29	1988	89.2	
7431990.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.59	1985	95.5	
7434280.0	1974	SWASTIKA	ON	CAN	48.01	80.20	300	S	2.10	1988	26.7	
7434290.0	1974	GROVELTON	ON	CAN	44.53	75.34	N/A		2.44	1990	64.8	
7434320.0	1974	HERVOS TOWNSHIP	ON	CAN	46.14	80.43	213	N/A	1.82	1987	60.5	
7434420.0	1974	CLOTE TOWNSHIP	ON	CAN	49.10	81.14	289	N/A	2.26	1988	61.8	
7434480.0	1974	CLOTE TOWNSHIP	ON	CAN	49.10	81.14	289	N/A	3.08	1987	75.0	
7434490.0	1974	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	162	S	2.17	1988	16.8	
7435490.0	1974	WHITE RIVER	ON	CAN	48.33	85.12	450	B	2.85	1991	38.5	
7435550.0	1974	MICKELLAR	ON	CAN	45.35	79.52	275	S	1.90	1988	58.5	
7435570.0	1974	MICKELLAR	ON	CAN	45.35	79.52	275	S	2.43	1988	65.5	
7435630.0	1974	DORSET	ON	CAN	45.16	78.58	335	S	2.62	1988	60.2	
7435690.0	1974	DORSET	ON	CAN	45.16	78.58	335	S	2.27	1988	46.8	
7435700.0	1974	DORSET	ON	CAN	45.16	78.58	335	S	1.85	1988	14.2	
7435750.0	1974	HATTAWAN TOWNSHIP	ON	CAN	46.23	78.54	305	S	2.79	1988	10.2	
7435840.0	1974	INGLEHART	ON	CAN	47.52	79.55	215	S	2.39	1984	33.5	
7435850.0	1974	INGLEHART	ON	CAN	47.52	79.55	215	S	2.11	1988	36.3	
7435870.0	1974	INGLEHART	ON	CAN	47.52	79.55	215	S	1.82	1988	33.8	
7435890.0	1974	INGLEHART	ON	CAN	47.52	79.55	215	S	1.97	1988	21.2	
7435900.0	1974	INGLEHART	ON	CAN	47.52	79.55	215	S	2.29	1988	56.0	
7435910.0	1974	INGLEHART	ON	CAN	47.52	79.55	215	S	2.32	1989	2.0	
7435920.0	1974	DENTON TOWNSHIP	ON	CAN	48.19	81.40	335	S	2.51	1989	21.8	
7436010.0	1974	SOUTH RIVER	ON	CAN	45.54	79.23	365	S	1.85	1987	67.2	
7436060.0	1974	SOUTH RIVER	ON	CAN	45.54	79.23	365	S	2.53	1988	71.0	
7436070.0	1974	SOUTH RIVER	ON	CAN	45.03	76.35	245	S	2.50	1987	87.5	
7436210.0	1974	SHANNONVILLE	ON	CAN	45.03	76.35	245	S	2.24	1988	27.2	
7436260.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	1.88	1988	81.2	
7436280.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	2.92	1988	19.5	
7436290.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	1.83	1988	13.2	
7436300.0	1974	POLAND	ON	CAN	45.02	75.50	90	S	2.69	1988	10.8	
7436330.0	1974	MARLBOROUGH TOWNSHIP	ON	CAN	45.02	75.50	90	S	1.80	1988	19.0	
7436340.0	1974	MARLBOROUGH TOWNSHIP	ON	CAN	44.26	77.50	180	N/A	2.67	1988	15.8	
7436350.0	1974	HAVELOCK	ON	CAN	48.02	80.22	300	S	2.07	1988	83.8	
74366950.0	1974	FOOTNER LAKE	AB	CAN	57.55	115.30	460	B	2.26	1988	83.8	

SEEDBANK NUMBER	YEAR	PROVENANCE	PV	CTRY	LAT	LONG	COLL (m)	TYPE	1000 Swt.	TEST	YEAR	%	GERH	REMARKS
7466960.0	1974	SLAVE LAKE FOREST	AB	CAN	56.38	114.35	730	B	2.05	1987	35.5			
7466970.0	1974	GRANDE PRAIRIE	AB	CAN	55.35	118.18	640	N/A	2.22	1983	88.0			
7477170.0	1974	CANYON LAKE	BC	CAN	53.01	123.12	1280	B	1.81	1988	5.5			
7477180.0	1974	STRATHNAVER	BC	CAN	53.18	122.12	1150	B	2.04	1988	5.0			
7477200.0	1974	WILLIAMSON CREEK	BC	CAN	49.17	118.53	471	B	2.39	1988	32.0			
7477220.0	1974	GREYBACK MOUNTAIN	BC	CAN	49.36	119.17	1585	B	1.94	1988	28.9			
7531520.0	1975	HANITOUWADGE	ON	CAN	48.43	85.52	335	S	3.37	1988	99.8			
7531530.0	1975	HANITOUWADGE	ON	CAN	48.43	85.52	335	S	2.46	1988	86.8			
7531570.0	1975	HANITOUWADGE	ON	CAN	48.43	85.52	335	S	2.66	1985	93.0			
7531620.0	1975	HANITOUWADGE	ON	CAN	49.17	85.58	305	S	2.12	1988	72.2			
7531630.0	1975	HANITOUWADGE	ON	CAN	49.17	85.58	305	S	2.03	1988	94.0			
7531680.0	1975	HANITOUWADGE	ON	CAN	49.17	85.58	305	S	1.93	1988	70.8			
7531700.0	1975	HANITOUWADGE	ON	CAN	49.17	85.58	305	S	2.82	1989	60.2			
7531730.0	1975	HANITOUWADGE	ON	CAN	49.17	85.54	260	S	2.11	1988	92.2			
7531760.0	1975	HANITOUWADGE	ON	CAN	49.17	85.54	260	S	3.26	1988	89.2			
7531800.0	1975	HANITOUWADGE	ON	CAN	49.17	85.54	260	S	2.17	1989	93.5			
7531810.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	B	1.85	1990	46.0			
7531820.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	1.97	1989	94.8			
7531830.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	1.61	1989	92.2			
7531840.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	2.59	1988	92.2			
7531880.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	2.52	1988	88.9			
7531890.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	2.06	1988	82.5			
7531970.0	1975	WHITE RIVER	ON	CAN	40.37	85.19	305	S	2.53	1989	37.9			
7532030.0	1975	HOBERT	ON	CAN	48.42	85.35	305	S	2.48	1987	96.2			
7532040.0	1975	HOBERT	ON	CAN	48.42	85.35	305	S	2.19	1988	96.3			
7532090.0	1975	HOBERT	ON	CAN	48.42	85.35	305	S	2.52	1988	97.5			
7532110.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.30	1988	93.8			
7532120.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.33	1988	28.0			
7532150.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.23	1988	76.0			
7532160.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	1.93	1987	96.0			
7532200.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.09	1988	80.2			
75322790.0	1975	FALSE GREEK	ON	CAN	49.52	86.52	365	S	2.04	1988	97.2			
7532300.0	1975	FALSE CREEK	ON	CAN	49.52	86.52	365	S	2.04	1988	97.0			
7532330.0	1975	OFFALDTON	ON	CAN	49.56	87.07	305	S	2.15	1989	89.2			
7532380.0	1975	OFFALDTON	ON	CAN	49.56	87.07	305	S	1.86	1988	95.5			
7532400.0	1975	OFFALDTON	ON	CAN	49.56	87.07	305	S	2.35	1988	88.0			
7532420.0	1975	BEARDMORE	ON	CAN	49.33	88.00	365	R	2.19	1988	84.8			
7532430.0	1975	BEARDMORE	ON	CAN	49.33	88.00	365	R	2.58	1984	74.5			
7532490.0	1975	BEARDMORE	ON	CAN	49.33	88.00	365	S	1.87	1988	96.5			
7532510.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	1.64	1988	96.8			
7532520.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	1.94	1988	91.2			
7532540.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	2.24	1988	94.5			
7532610.0	1975	WAWEIG LAKE	ON	CAN	49.55	86.29	305	S	1.95	1988	97.5			
7532630.0	1975	KENDOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.57	1987	99.0			
7532650.0	1975	KENDOGAMI RIVER	ON	CAN	49.55	86.29	305	S	1.85	1988	65.8			
7532660.0	1975	KENDOGAMI RIVER	ON	CAN	49.55	86.29	305	S	1.91	1988	77.2			
7532670.0	1975	KENDOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.06	1988	83.0			
7532680.0	1975	KENDOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.41	1988	98.0			
7532230.0	1975	PIG RIVER	ON	CAN	48.42	86.15	240	S	2.86	1989	66.0			

SEEDBANK NUMBER:	YEAR:	COLL:	PROVENANCE:	PV:	CTRY:	LAT:	LONG:	(m)	TYPE:	1000 Sdwt:	COLL TEST:	YEAR:	GERM:	REMARKS
7532780.0	1975	PIC RIVER	ON	CAN	48,42	86.15	240	5	1.88	1987	96.5			
7532820.0	1975	HACKENZIE	ON	CAN	48,33	88.58	275	3	1.84	1989	7.0			
7533160.0	1975	TWIST LAKE	ON	CAN	49,22	89.45	425	5	2.00	1989	3.2			
7533180.0	1975	TWIST LAKE	ON	CAN	49,22	89.45	425	3	2.19	1988	29.3			
7533180.0	1975	D'SULLIVAN LAKE	ON	CAN	50,32	B7,01	335	6	1.95	1988	8.2			
7533180.0	1975	LONG LAKE	ON	CAN	49,13	B7,04	335	5	2.47	1988	29.5			
7533470.0	1975	LONG LAKE	ON	CAN	49,13	B7,04	335	5	2.85	1989	39.2			
7533500.0	1975	LONG LAKE	ON	CAN	49,13	B7,04	335	5	2.04	1988	22.5			
7533510.0	1975	LONG LAKE	ON	CAN	49,13	B7,04	335	5	2.10	1987	29.8			
7533520.0	1975	LONG LAKE	ON	CAN	49,37	84,35	275	5	2.82	1987	77.2			
7533550.0	1975	ARNOTT TOWNSHIP	ON	CAN	50,12	86,47	375	5	2.16	1988	7.5			
7533850.0	1975	HAKINA	ON	CAN	49,28	87,34	460	5	2.95	1987	88.6			
7533920.0	1975	PARKS LAKE	ON	CAN	49,28	87,34	460	5	1.79	1988	57.0			
7533950.0	1975	PARKS LAKE	ON	CAN	48,37	89,54	410	5	2.63	1989	75.2			
7534070.0	1975	SHABAGUA CORNERS	ON	CAN	50,02	87,39	305	5	2.21	1988	19.3			
7534130.0	1975	ONAMAHN RIVER	ON	CAN	50,02	87,39	305	5	1.96	1989	12.5			
7534160.0	1975	ONAMAHN RIVER	ON	CAN	50,02	87,39	305	5	1.82	1989	33.0			
7534180.0	1975	ONAMAHN RIVER	ON	CAN	49,46	85,25	245	5	3.52	1989	70.9			
7534190.0	1975	PAGWA	ON	CAN	49,46	85,25	245	5	2.41	1989	63.8			
7534210.0	1975	PAGWA	ON	CAN	49,46	85,25	245	5	2.38	1989	46.2			
7534240.0	1975	PAGWA	ON	CAN	49,46	85,25	245	5	2.27	1989	36.2			
7534260.0	1975	PAGWA	ON	CAN	49,42	87,25	365	5	2.46	1989	26.8			
7534280.0	1975	PAGWA	ON	CAN	49,46	85,25	245	5	2.39	1989	57.5			
7534290.0	1975	JELLICOE	ON	CAN	49,42	87,25	365	5	1.88	1989	9.0			
7534310.0	1975	JELLICOE	ON	CAN	49,42	87,25	365	5	2.09	1989	28.2			
7534350.0	1975	JELLICOE	ON	CAN	49,42	87,25	365	5	2.26	1987	76.5			
7534370.0	1975	JELLICOE	ON	CAN	50,09	87,53	335	5	1.88	1987	45.9			
7534450.0	1978	AUDEN	ON	CAN	48,13	89,24	305	B	2.17	1989	11.8			
7534580.0	1975	THUNDER BAY	ON	CAN	48,30	88,37	305	B	2.00	1987	92.0			
7534750.0	1975	THUNDER BAY	ON	CAN	49,23	89,43	425	B	1.79	1987	96.8			
7534620.0	1975	THUNDER BAY	ON	CAN	49,15	90,35	490	B	1.69	1987	79.2			
7534630.0	1975	ORAHAM	ON	CAN	49,05	89,11	455	B	2.01	1989	50.2			
7534640.0	1975	THUNDER BAY	AB CAN	CAN	52,08	111,38	275	B	1.96	1989	9.8			
7534640.0	1975	ATHABASCA FOREST	HS CAN	CAN	45,29	61,58	150	N/A	2.31	1989	19.0			
7534750.0	1975	PINEVALE	HS CAN	CAN	45,32	62,21	150	N/A	2.50	1985	47.5			
7534800.0	1976	MCGRATH S. MTN.	ON CAN	CAN	46,00	77,26	160	B(2)	2.59	1989	74.5			
7530720.0	1976	P.N.F.I.	ON CAN	CAN	45,46	77,17	150	S	2.24	1989	80.0			
7631090.0	1976	ALICE	ON CAN	CAN	45,46	77,17	150	S	2.53	1989	66.0			
7631100.0	1976	ALICE	ON CAN	CAN	47,15	79,31	240	S	3.35	1989	81.0			
7632000.0	1976	LORRAINE TOWNSHIP	ON CAN	CAN	45,37	79,25	300	S	2.61	1989	87.5			
7632200.0	1976	PECK TOWNSHIP	ON CAN	CAN	45,29	78,45	460	S	2.40	1989	3.0			
7632230.0	1976	PECK TOWNSHIP	ON CAN	CAN	46,08	79,16	275	S	3.74	1990	94.5			
7632240.0	1976	PECK TOWNSHIP	ON CAN	CAN	45,29	78,45	460	S	3.35	1989	8.2			
7632400.0	1976	BURK'S FALLS	ON CAN	CAN	45,37	79,25	300	S	2.17	1989	14.2			
7632410.0	1976	BURK'S FALLS	ON CAN	CAN	46,08	79,16	275	S	3.17	1985	07.5			
7632490.0	1976	BURK'S FALLS	ON CAN	CAN	45,37	79,25	300	S	2.95	1990	63.5			
7632510.0	1976	CHISHOLM TOWNSHIP	ON CAN	CAN	46,08	79,16	275	S	2.17	1989	90.0			
7632560.0	1976	CHISHOLM TOWNSHIP	ON CAN	CAN	46,08	79,16	275	S	2.74	1989	88.2			
7632570.0	1976	CHISHOLM TOWNSHIP	ON CAN	CAN	46,08	79,16	275	S	3.17	1985	07.5			
7632590.0	1976	CHISHOLM TOWNSHIP	ON CAN	CAN	46,08	79,16	275	S	3.10	1989	63.5			
7632650.0	1976	HATTAWAN TOWNSHIP	ON CAN	CAN	46,23	78,54	305	S	2.16	1989	4.0			
7632680.0	1976	HATTAWAN TOWNSHIP	ON CAN	CAN	46,23	78,54	305	S	2.18	1990	69.0			
7632690.0	1976	HATTAWAN TOWNSHIP	ON CAN	CAN	46,23	78,54	245	S	2.42	1989	2.0			
7633050.0	1976	BONFIELD TOWNSHIP	ON CAN	CAN	46,14	79,08	245	S	2.53	1989	71.5			

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	FLEV (m)	COLL TYPE	1000 Sdwt	TEST	YEAR COLL	GERM	REMARKS
7B20950.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	3.48	1990	95.0		
7B20960.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.68	1987	100.0		
7B20970.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	3.01	1987	99.0		
7B20980.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.86	1988	97.3		
7B30810.0	1978	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.33	1988	96.2		
7B30820.0	1978	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.58	1988	96.2		
7B30830.0	1978	P.N.F.I.	ON	CAN	45.57	77.25	160	S	2.60	1986	99.0		
7B30840.0	1978	P.N.F.I.	ON	CAN	45.57	77.25	160	S	2.07	1986	96.0		
7B31460.0	1978	P.N.F.I.	ON	CAN	45.57	77.24	160	S	2.13	1986	33.0		
7B31470.0	1978	P.N.F.I.	ON	CAN	45.57	77.24	160	S	2.33	1990	96.2		
7B31570.0	1978	P.N.F.I.	ON	CAN	45.57	77.24	160	S	2.71	1990	88.5		
7B31580.0	1978	P.N.F.I.	ON	CAN	45.57	77.25	160	S	2.02	1986	98.0		
7933060.0	1979	SOUTH NATION RIVER	ON	CAN	45.33	75.03	61	S	2.68	1989	33.5		
7933080.0	1979	SOUTH NATION RIVER	ON	CAN	45.33	75.03	61	N/A	2.56	1989	61.8		
7965049.0	1979	DF 110-16-5-79	AB	CAN	58.38	114.57	335	B	2.13	1991	92.5		
7965050.0	1979	DP 85-1-6-79	AB	CAN	56.23	118.05	762	B	2.16	1991	89.0		
B200564.0	1982	CORMACK	NF	CAN	49.20	57.19	90	B	2.08	1985	88.0		
B200570.0	1982	GOOSE BAY	NF	CAN	53.20	60.10	10	B	2.14	1990	91.5		
B200571.0	1982	FRENCHMAN'S POND	NF	CAN	48.53	55.53	180	B	2.05	1985	83.0		
B234400.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.13	1987	91.2		
B234410.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	1.89	1987	98.5		
B234470.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	1.99	1990	96.8		
B234480.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.79	1990	92.2		
B234490.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.36	1987	97.2		
B234495.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.25	1990	98.8		
B23450.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.18	1987	99.8		
B234470.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.33	1987	98.0		
B234480.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.06	1987	95.8		
B234490.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.30	1990	98.8		
B23450.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.15	1991	98.0		
B2266176.0	1982	DR 43-10-5-82	AB	CAN	52.43	115.40	1066	B	1.90	1985	57.3		
8280558.0	1982	MENTASTA PASS #1	AK	USA	62.56	143.30	690	S	2.18	1985	69.3		
8280559.0	1982	MENTASTA PASS #3	AK	USA	62.56	143.30	690	S	2.04	1985	93.5		
8280560.0	1982	TETLON JUNCTION	AK	USA	63.19	142.38	495	S	2.06	1985	63.0		
8280561.0	1982	WILLOW ISLAND	AK	USA	64.91	148.12	125	S	2.94	1985	81.0		
8280562.0	1982	BONANZA CREEK	AK	USA	64.43	148.20	275	S	2.68	1985	80.0		
8280563.0	1982	GERSTLE RIVER	AK	USA	63.80	144.53	390	S	3.53	1987	93.0		
8284450.0	1982	WASHINGTON COUNTY	AK	USA	44.45	67.15	6	S	2.12	1990	98.2		
8310058.0	1983	SCAL RIVER	PE	CAN					2.94	1990	90.8		
8310059.0	1983	FAXLEY RIVER	PE	CAN					3.30	1985	96.0		
8400991.0	1984	MICHAELS BROOK	HF	CAN	48.48	56.20	210	B	2.45	1986	89.0		
B411649.0	1984	MIDDLE MUSQUODDODIT	NS	CAN	45.02	63.09		B	2.28	1986	75.0		
8411650.0	1984	FOREST GLEN	NS	CAN	45.04	65.55		B	2.19	1985	98.5		
B430101.0	1984	HGNAB 10	ON	CAN	45.28	76.27	129	S	1.99	1985	97.5		
B430104.0	1984	MCNAB 10	ON	CAN	45.28	76.27	129	S	1.78	1985	97.5		
B430106.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	2.32	1985	97.0		
B430107.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	2.04	1985	98.5		
B430108.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.55	1985	97.5		
B430109.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.27	1985	96.5		
B430112.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.79	1985	98.0		
B430113.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.59	1985	99.0		
B430114.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.84	1985	99.0		
B430115.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	2.07	1985	99.0		

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt.	YEAR TEST	% GERM	REMARKS
7633070.0	1976	BONFIELD TOWNSHIP	ON CAN	46.14	79.08	245	S	2.39	1989	89.2			
7633080.0	1976	BONFIELD TOWNSHIP	ON CAN	46.14	79.08	245	S	1.92	1989	77.5			
7633140.0	1976	BONFIELD TOWNSHIP	ON CAN	46.14	79.08	245	S	2.79	1989	87.0			
7633160.0	1976	BOWMAN TOWNSHIP	ON CAN	48.29	80.25	290	S	2.50	1989	33.5			
7633170.0	1976	BOWMAN TOWNSHIP	ON CAN	48.29	80.25	290	S	2.61	1989	46.8			
7633180.0	1976	BOWMAN TOWNSHIP	ON CAN	48.29	80.25	290	S	2.50	1989	88.8			
7633210.0	1976	BOWMAN TOWNSHIP	ON CAN	48.29	80.25	290	S	2.32	1985	83.0			
7633220.0	1976	BOWMAN TOWNSHIP	ON CAN	48.29	80.25	290	S	2.16	1989	81.0			
7633570.0	1976	SILVER LAKE	ON CAN	44.49	76.41	180	S	2.71	1989	69.2			
7633590.0	1976	SILVER LAKE	ON CAN	44.49	76.41	180	S	3.27	1989	88.2			
7633640.0	1976	FORESTERS FALLS	ON CAN	45.41	76.48	140	S	2.05	1989	22.2			
7633650.0	1976	FORESTERS FALLS	ON CAN	45.41	76.48	140	S	2.20	1991	98.5			
7633680.0	1976	FORESTERS FALLS	ON CAN	45.42	76.49	150	S	3.15	1989	80.8			
7634460.0	1976	CHALK RIVER	ON CAN	46.01	77.26	145	S	1.96	1989	97.2			
7655070.0	1976	GIFANOK CH.	SK CAN	53.40	102.47	272	B	2.33	1986	46.5			
7655110.0	1976	CHITEK LAKE	SK CAN	53.46	107.50	567	B	2.15	1986	15.5			
7655120.0	1976	HADGE LAKE	SK CAN	51.38	101.40	621	B	2.57	1986	21.0			
7655140.0	1976	PIWEI RIVER	SK CAN	52.30	102.55	509	B	2.61	1989	0.1			
7655160.0	1976	RANDLE LAKE	SK CAN	53.45	105.17	494	S	2.04	1986	19.5			
7655170.0	1976	DORE LAKE	SK CAN	54.42	107.16	485	N/A	1.97	1989	0.1			
7665450.0	1976	PEACE RIVER FOREST	AB CAN	57.18	114.32	549	S	1.97	1985	21.0			
7665460.0	1976	PEACE RIVER FOREST	AB CAN	57.18	114.32	549	S	1.75	1989	9.5			
7665510.0	1976	PEACE RIVER FOREST	AB CAN	57.18	114.32	549	S	1.49	1989	19.2			
7665520.0	1976	PEACE RIVER FOREST	AB CAN	57.18	114.32	549	S	2.14	1990	19.0			
7665540.0	1976	PEACE RIVER FOREST	AB CAN	57.18	114.32	549	S	2.54	1990	12.5			
76669330.0	1976	PEACE RIVER FOREST	AB CAN	57.18	114.32	549	S (24)	2.09	1991	48.2			
7730440.0	1977	P.N.F.I.	ON CAN	45.59	77.25	170	S	2.19	1989	97.0			
7730420.0	1977	P.N.F.I.	ON CAN	45.59	77.25	160	S	2.65	1988	87.0			
7730480.0	1977	P.N.F.I.	ON CAN	45.59	77.25	160	S	2.05	1988	90.2			
7730490.0	1977	P.N.F.I.	ON CAN	45.59	77.25	160	S	2.54	1988	68.3			
7730500.0	1977	P.N.F.I.	ON CAN	45.59	77.25	170	S	1.75	1988	93.8			
7730510.0	1977	P.N.F.I.	ON CAN	46.00	77.26	170	S	2.42	1988	89.2			
7730590.0	1977	DAUMONT TOWNSHIP	ON CAN	46.51	83.58	300	S	2.21	1987	99.5			
77310960.0	1977	PROCTOR TOWNSHIP	ON CAN	46.20	82.30	250	S	1.71	1988	99.2			
7731060.0	1977	TOWNSHIP 131	ON CAN	46.28	82.14	368	S	2.07	1988	80.0			
7731100.0	1977	DENISON TOWNSHIP	ON CAN	46.27	81.22	278	S	2.23	1988	97.2			
7731120.0	1977	DENISON TOWNSHIP	ON CAN	46.27	81.22	275	S	2.11	1988	42.2			
7731140.0	1977	DENISON TOWNSHIP	ON CAN	46.27	81.22	275	S	2.07	1988	82.2			
7731150.0	1977	DENISON TOWNSHIP	ON CAN	46.27	81.22	275	S	1.96	1988	86.0			
7731240.0	1977	HATRN TOWNSHIP	ON CAN	46.19	81.39	215	S	2.21	1988	99.2			
7731310.0	1977	HATRN TOWNSHIP	ON CAN	46.19	81.39	215	S	2.23	1988	73.0			
7731400.0	1977	DAHL TOWNSHIP	ON CAN	48.18	85.00	425	S	1.89	1987	40.5			
7731620.0	1977	DAHL TOWNSHIP	ON CAN	48.18	85.00	425	S	2.59	1988	50.5			
7820230.0	1978	THORNE TOWNSHIP	PQ CAN	45.48	76.28	210	S	2.31	1988	99.8			
7820240.0	1978	THORNE TOWNSHIP	PQ CAN	45.48	76.28	210	S	2.33	1988	79.5			
7820250.0	1978	THORNE TOWNSHIP	PQ CAN	45.48	76.28	210	S	2.87	1987	98.0			
7820260.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.31	1987	99.2			
7820890.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.62	1990	95.5			
7820900.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.88	1987	98.8			
7820910.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.31	1988	99.8			
7820920.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.87	1987	98.0			
7820930.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.31	1987	99.2			
7820940.0	1978	OTTER LAKE	PQ CAN	45.51	76.26	200	S	2.88	1987	98.8			

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG (m)	ELEV (m)	TYPE	1000 SdWt	YEAR TEST	COLL TEST	GERM	Z REMARKS
B430116.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.85	1985	1985	99.5	
B430117.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.65	1985	1985	91.5	
B430118.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.06	1985	1985	99.0	
B430119.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.29	1990	1990	96.5	
B430120.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.13	1985	1985	95.0	
B430121.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.25	1990	1990	92.8	
B430122.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.46	1985	1985	95.0	
B430123.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.67	1985	1985	99.5	
B430124.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.77	1985	1985	95.0	
B430126.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.54	1985	1985	98.5	
B430127.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.50	1985	1985	88.5	
B430128.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.61	1985	1985	99.5	
B430129.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.63	1991	1991	87.5	
B430130.0	1984	HORTON 4	ON	CAN	45.27	76.36	145	S	2.05	1985	1985	95.0	
B430132.0	1984	BROMLEY 5	ON	CAN	45.37	76.56	152	S	2.22	1985	1985	91.5	
B430133.0	1984	BROMLEY 5	ON	CAN	45.37	76.56	152	S	2.45	1985	1985	99.0	
B430134.0	1984	BROMLEY 5	ON	CAN	45.37	76.56	152	S	1.44	1985	1985	98.0	
B430135.0	1984	WILBERFORCE 15	ON	CAN	45.33	77.04	152	S	1.99	1985	1985	98.0	
B430136.0	1984	WILBERFORCE 15	ON	CAN	45.33	77.04	152	S	1.57	1991	1991	99.5	
B430140.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.57	1985	1985	99.5	
B430141.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	2.35	1985	1985	97.5	
B430142.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.69	1985	1985	97.5	
B430144.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	2.52	1991	1991	96.2	
B430145.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.89	1991	1991	98.0	
B430146.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	2.29	1985	1985	96.0	
B430147.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	2.09	1985	1985	99.5	
B430152.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.42	1985	1985	94.5	
B430153.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.45	1985	1985	93.0	
B430154.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.85	1985	1985	99.5	
B430155.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.51	1985	1985	99.0	
B430156.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.61	1985	1985	99.5	
B430157.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	2.52	1985	1985	97.0	
B430158.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	2.06	1985	1985	92.5	
B430159.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	1.85	1985	1985	97.0	
B430160.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	2.23	1991	1991	96.8	
B430161.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.90	1985	1985	98.5	
B430162.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	2.20	1991	1991	99.8	
B430165.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.87	1991	1991	97.5	
B430166.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	2.06	1991	1991	98.5	
B430167.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.90	1991	1991	97.5	
B430168.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.68	1991	1991	97.8	
B430169.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.65	1991	1991	98.2	
B430170.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.80	1991	1991	95.8	
B430171.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.90	1991	1991	96.2	
B430172.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.30	1991	1991	97.5	
B430173.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.68	1991	1991	97.8	
B430174.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.90	1991	1991	97.5	
B430175.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.55	1991	1991	98.0	
B430176.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	2.40	1991	1991	97.7	
B430177.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.74	1991	1991	97.7	
B430178.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.55	1991	1991	97.5	
B430179.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.65	1991	1991	98.0	
B430180.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.12	244	S	1.65	1991	1991	98.2	
B430181.0	1984	ROSS 16	ON	CAN	45.37	76.53	157	S	2.40	1991	1991	97.7	

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	TYPE	COLL (m)	1000 Sdut	TTEST	YEAR GERM	% REMARKS
B430183J.0	1984	ROSS	16	ON	CAN	45.37	76.53	152	S	2.13	1991	95.0	
B430184J.0	1984	ROSS	16	ON	CAN	45.37	76.53	152	S	1.60	1991	96.3	
B430187J.0	1984	ROSS	16	ON	CAN	45.37	76.53	152	S	2.45	1991	99.2	
B430190J.0	1984	ROSS	17	ON	CAN	45.37	76.49	183	S	1.53	1991	97.5	
B430191J.0	1984	ROSS	17	ON	CAN	45.37	76.49	183	S	1.68	1991	91.0	
B430192J.0	1984	ROSS	17	ON	CAN	45.37	76.49	183	S	1.95	1991	98.5	
B430193J.0	1984	ROSS	17	ON	CAN	45.37	76.49	183	S	1.90	1991	99.7	
B430196J.0	1984	ROSS	17	ON	CAN	45.37	76.49	183	S	1.65	1991	98.5	
B430197J.0	1984	ROSS	19	ON	CAN	45.34	76.50	168	S	1.98	1991	99.0	
B430198J.0	1984	ROSS	20	ON	CAN	45.36	76.51	152	S	1.80	1991	96.5	
B430199J.0	1984	ROSS	20	ON	CAN	45.36	76.51	152	S	1.50	1991	98.2	
B430200J.0	1984	ROSS	20	ON	CAN	45.36	76.51	152	S	1.75	1991	97.8	
B430201J.0	1984	ROSS	20	ON	CAN	45.36	76.51	152	S	1.40	1985	97.0	
B430202J.0	1984	ROSS	20	ON	CAN	45.36	76.51	152	S	1.55	1991	78.5	
B430205J.0	1984	ROSS	20	ON	CAN	45.36	76.51	152	S	1.40	1991	99.2	
B430215J.0	1984	ROSS	7	ON	CAN	45.42	76.45	152	S	1.58	1991	98.7	
B430216J.0	1984	ROSS	11	ON	CAN	45.42	76.47	128	S	1.78	1991	98.2	
B430218J.0	1984	ROSS	11	ON	CAN	45.42	76.47	128	S	1.75	1991	97.8	
B430220J.0	1984	ROSS	11	ON	CAN	45.42	76.47	128	S	1.85	1991	98.2	
B430221J.0	1984	ROSS	11	ON	CAN	45.42	76.47	128	S	1.73	1991	97.5	
B430224J.0	1984	ROSS	11	ON	CAN	45.42	76.47	128	S	2.25	1991	98.0	
B430225J.0	1984	ROSS	13	ON	CAN	45.41	76.51	137	S	1.35	1991	94.2	
B430226J.0	1984	ROSS	13	ON	CAN	45.41	76.51	137	S	1.93	1991	98.2	
B430229J.0	1984	ROSS	13	ON	CAN	45.41	76.51	137	S	1.70	1991	98.2	
B430230J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.93	1991	94.8	
B430231J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.55	1985	97.5	
B430232J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.70	1991	96.5	
B430233J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	2.20	1991	99.0	
B430234J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.53	1991	94.5	
B430235J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.88	1991	98.5	
B430236J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.75	1991	97.8	
B430237J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	1.55	1991	99.2	
B430238J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	2.48	1991	98.5	
B430239J.0	1984	ALICE	1	ON	CAN	45.48	77.15	168	S	2.89	1991	82.5	
B430246J.0	1984	HORTON	S	ON	CAN	45.27	76.37	137	S	1.93	1991	88.0	
B430249J.0	1984	MCNAB	7	ON	CAN	45.28	76.30	114	S	1.95	1991	97.5	
B430250J.0	1984	MCNAB	7	ON	CAN	45.28	76.30	114	S	2.00	1985	99.0	
B430251J.0	1984	MCNAB	7	ON	CAN	45.28	76.30	114	S	1.55	1991	92.2	
B430252J.0	1984	MCNAB	7	ON	CAN	45.28	76.30	114	S	1.93	1991	99.2	
B430261J.0	1984	MCNAB	7	ON	CAN	45.43	77.03	145	S	1.70	1991	95.8	
B430253J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.58	1985	98.0	
B430255J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.80	1991	98.0	
B430257J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.85	1991	98.0	
B430271J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.73	1991	73.0	
B430273J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.65	1991	98.5	
B430274J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.93	1991	98.5	
B430269J.0	1984	STAFFORD	4	ON	CAN	45.43	77.05	145	S	1.70	1991	95.8	
B430270J.0	1984	PEMBROKE	2	ON	CAN	45.49	77.04	114	S	1.63	1991	99.8	
B430278J.0	1984	PEMBROKE	2	ON	CAN	45.49	77.04	114	S	2.70	1991	95.5	
B430279J.0	1984	PEMBROKE	2	ON	CAN	45.49	77.04	114	S	1.80	1991	99.0	

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt.	YEAR TEST	GERM	% REMARKS
B430280.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	2.60	1991	99.0
B430281.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.38	1991	98.0
B430282.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.70	1991	99.8
B430283.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.65	1991	98.2
B430284.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.75	1991	96.0
B430285.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.68	1991	97.0
B430286.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.45	1991	97.8
B430287.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	2.33	1991	98.5
B430288.0	1984	PEMBROKE	2	DN	CAN	45.49	77.04	114	S	1.43	1991	96.0
B430289.0	1984	PEMBROKE	3	DN	CAN	45.48	77.03	114	S	2.00	1991	96.0
B430291.0	1984	PEMBROKE	3	DN	CAN	45.48	77.03	114	S	1.83	1985	98.5
B430292.0	1984	PEMBROKE	3	DN	CAN	45.48	77.03	114	S	1.30	1991	99.0
B430303.0	1984	PEMBROKE	4	DN	CAN	45.47	77.04	137	S	1.80	1991	98.5
B430304.0	1984	PEMBROKE	4	DN	CAN	45.47	77.04	137	S	2.28	1991	76.0
B430307.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	1.55	1991	97.9
B430308.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	2.13	1991	95.5
B430309.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	1.65	1991	90.2
B430310.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	2.18	1991	97.5
B430312.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	1.58	1991	99.2
B430313.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	2.30	1991	96.8
B430314.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	1.65	1991	99.8
B430316.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	1.87	1991	97.0
B430317.0	1984	WESTMEATH	4	DN	CAN	45.53	76.54	122	S	1.83	1991	98.0
B430318.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.65	1991	97.5
B430319.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	2.10	1991	99.0
B430321.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.80	1991	97.0
B430322.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.63	1991	99.5
B430323.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.63	1991	95.5
B430325.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.80	1991	94.2
B430326.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.95	1991	98.0
B430327.0	1984	WESTMEATH	9	DN	CAN	45.51	76.47	122	S	1.95	1991	98.5
B430328.0	1984	WESTMEATH	10	DN	CAN	45.52	76.47	107	S	1.33	1991	96.5
B430330.0	1984	WESTMEATH	10	DN	CAN	45.52	76.47	107	S	1.80	1985	97.0
B430331.0	1984	WESTMEATH	10	DN	CAN	45.52	76.47	107	S	2.00	1985	99.0
B430332.0	1984	WESTMEATH	10	DN	CAN	45.52	76.47	107	S	2.03	1985	100.0
B430334.0	1984	WESTMEATH	10	DN	CAN	45.52	76.47	107	S	2.43	1991	97.8
B430342.0	1984	WESTMEATH	12	DN	CAN	45.50	76.50	122	S	1.78	1985	98.0
B430335.0	1984	WESTMEATH	12	DN	CAN	45.50	76.50	122	S	2.05	1985	99.0
B430337.0	1984	WESTMEATH	12	DN	CAN	45.50	76.50	122	S	1.65	1991	99.0
B430339.0	1984	WESTMEATH	12	DN	CAN	45.50	76.50	122	S	2.03	1985	86.5
B430340.0	1984	WESTMEATH	13	DN	CAN	45.50	76.53	172	S	2.38	1985	96.5
B430341.0	1984	WESTMEATH	13	DN	CAN	45.50	76.53	122	S	2.05	1985	98.0
B430342.0	1984	WESTMEATH	13	DN	CAN	45.50	76.53	122	S	1.45	1985	98.5
B430347.0	1984	WESTMEATH	13	DN	CAN	45.46	76.53	137	S	1.65	1991	99.0
B430349.0	1984	WESTMEATH	13	DN	CAN	45.44	76.59	137	S	2.15	1991	97.5
B430350.0	1984	WESTMEATH	13	DN	CAN	45.50	76.53	172	S	2.10	1985	99.0
B430351.0	1984	WESTMEATH	13	DN	CAN	45.50	76.53	122	S	1.85	1985	99.0
B430356.0	1984	WESTMEATH	14	DN	CAN	45.46	76.53	137	S	1.65	1991	99.0
B430371.0	1984	WESTMEATH	14	DN	CAN	45.46	76.53	137	S	2.15	1991	97.5
B430373.0	1984	WESTMEATH	20	DN	CAN	45.44	76.59	137	S	1.63	1985	98.5

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	FY	CTRY	LAT	LONG	ELEV. (m)	COLL. TYPE	1000 Sdut	TEST	YEAR	% GERM	REMARKS
8430376.0	1984	WESTMEATH	20	ON	CAN	45.44	76.59	137	S	1.83	1991	98.5		
8430377.0	1984	WESTMEATH	20	ON	CAN	45.44	76.59	137	S	1.55	1991	99.0		
8430379.0	1984	WESTMEATH	20	ON	CAN	45.44	76.59	137	S	2.94	1991	96.5		
8430383.0	1984	WESTMEATH	21	ON	CAN	45.44	77.00	168	S	1.85	1991	97.0		
8430385.0	1984	WESTMEATH	21	ON	CAN	45.44	77.00	168	S	1.95	1985	97.5		
8430386.0	1984	WESTMEATH	21	ON	CAN	45.44	77.00	168	S	1.53	1991	100.0		
8431427.0	1984	P.N.F.I.		ON	CAN	46.00	77.26	150	S	1.61	1985	82.0		
8431428.0	1984	P.N.F.I.		ON	CAN	46.00	77.26	150	S	1.65	1991	83.0		
8431429.0	1984	P.N.F.I.		ON	CAN	46.00	77.26	150	S	1.24	1991	61.8		
8431431.0	1984	P.N.F.I.		ON	CAN	45.58	77.25	150	S	1.42	1985	90.0		
8431432.0	1984	P.N.F.I.		ON	CAN	45.58	77.25	150	S	1.54	1985	95.5		
8431434.0	1984	P.N.F.I.		ON	CAN	45.58	77.24	160	S	1.65	1985	90.0		
8431435.0	1984	P.N.F.I.		ON	CAN	45.58	77.24	160	S	1.38	1991	85.0		
8431436.0	1984	P.N.F.I.		ON	CAN	45.58	77.25	150	S	1.74	1985	83.1		
8560053.0	1985	ROCKY DISTRICT		AB	CAN	52.14	115.18	1160	B(11)	2.01	1991	96.0		
8560054.0	1985	ROCKY DISTRICT		AB	CAN	52.14	115.18	1160	B(11)	2.37	1991	96.2		
8566232.0	1985	BB 30-5-5-85		AB	CAN	51.33	114.45	1219	B	1.74	1991	92.2		
8600517.0	1986	MICHAEL'S BROOK		NF	CAN	48.46	56.22	225	N	3.01	1987	87.3		
8670155.0	1986	PRINCE GEORGE		BC	CAN	52.50	125.00	2275			1991	97.2		
8800681.0	1988	BEAVERS COVE		NF	CAN	48.01	59.04	45	N	2.85	1989	78.3		
8800684.0	1988	LITTLE RAPIDS		NF	CAN	48.58	57.45	100	B	2.86	1989	84.8		
8800685.0	1988	CORMACK		NF	CAN	49.20	58.20	267	B	2.82	1989	84.0		
8800686.0	1988	BLACK BANK		NF	CAN	48.28	58.25	15	P	3.08	1989	82.2		
8800687.0	1988	ST. ANTHONY		NF	CAN	51.25	55.20	10	B	2.49	1989	80.8		
8800688.0	1988	MICHAEL'S BROOK		NF	CAN	48.46	56.19	300	B	2.65	1989	73.5		
8800689.0	1988	CAPE ST. GEORGE		NF	CAN	48.13	59.14	30	B	2.61	1989	73.0		
8800690.0	1988	MICHAEL'S BROOK		NF	CAN	48.46	56.19	300	B	2.72	1989	83.2		
8800691.0	1988	SOUTHWEST BROOK		NF	CAN	48.29	58.09	75	B	2.89	1989	85.2		
8800692.0	1988	CORMACK		NF	CAN	49.20	58.20	267	B	2.73	1989	76.3		
8800693.0	1988	NORTH HARBOUR		NF	CAN	48.95	57.38	75	B	2.76	1990	84.2		
8800694.0	1988	HILTON		NF	CAN	53.58	48.13	270	B	2.85	1989	72.5		
8800695.0	1988	GOOSE ARM		NF	CAN	49.18	59.35	900	B	2.94	1989	89.0		
8800696.0	1988	PORT SAUNDERS		NF	CAN	50.47	57.40	25	B	2.74	1989	82.5		
8800697.0	1988	SOUTHWEST BROOK		NF	CAN	48.29	58.08	75	B	2.92	1989	88.8		
8800698.0	1988	WOODY POINT		NF	CAN	49.25	57.55	100	B	3.04	1989	87.8		
8800699.0	1988	CORMACK		NF	CAN	49.20	58.20	267	B	2.85	1989	85.0		
8830282.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.11	1989	95.5		
8830283.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		1.98	1989	93.5		
8830284.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.26	1989	98.2		
8830285.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.42	1989	97.8		
8830286.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.12	1989	96.0		
8830287.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		1.88	1989	95.8		
8830288.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.06	1989	98.5		
8830289.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		3.19	1989	97.5		
8830290.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.37	1989	97.8		
8830291.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.20	1989	97.8		
8830292.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		2.45	1989	85.0		
8830293.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		1.60	1989	93.5		
8830294.0	1988	P.N.F.I.		ON	CAN	46.00	77.26	8		1.97	1989	72.0		
8830295.0	1988	P.N.F.I.		ON	CAN	46.00	77.25	8		2.13	1989	95.8		
8830296.0	1988	HARFORD		ON	CAN	45.08	76.27	R(5)		2.61	1989	90.2		

SPECIES 32,600 PICEA GLAUNII (Sakhalin Spruce)

SEEDBANK NUMBER	YEAR PROVENANCE	COLL PV	CTRY	LAT	LONG (°)	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	Z GERM	REMARKS
0380867.0	1983 HOKKAIDO PREFECTURE	JPN	42.50	142.22E	380	N/A	3.36	1989	90.0		
SPECIES 32,700	PICEA JEZOENSIS [Hondo (Yeddo) spruce]										
7789269.0	1977 HOKKAIDO PREFECTURE	JPN	43.45	143.10E	560	N/A	2.77	1989	68.5		
SPECIES 32,720	PICEA JEZOENSIS var. MICROSPERMA										
0380664.0	1983 YICHUN, HEILONGJIANG PROV	CIN	47.00	129.00E	240	N/A	2.94	1990	40.0		
B380663.0	1983 YICHUN, HEILONGJIANG PROV	CHN	47.00	129.00E	240	N/A	6.21	1990	88.0		
0480977.0	1984 INNER MONGOLIA PROV,	CHN	40.00	110.00E	N/A	N/A	5.87	1985	80.0		
0480978.0	1984 HEILONGJIANG PROV	CHN	47.00	127.00E	N/A	N/A	6.05	1990	88.5		
SPECIES 32,900	PICEA MARTIANA (black spruce)										
6751610.0	1967 PORCUPINE MOUNTAIN	DK CAN	52.30	101.43	600	B	1.10	1988	88.0		
723722.0	1973 OMHR SITE REGION 5300	ON CAN	55.57	115.57	670	B	0.95	1990	97.5		
7669448.0	1976 SWIFT CURRENT	AB CAN	54.56	120.0	120	B	1.28	1991	65.0		
790410.0	1979 SKIPPING RINGE	NF CAN	49.45	150	150	B	1.46	1991	94.5		
0002040.0	1980 CHARMANVILLE	NF CAN	49.21	54.16	70	B	1.54	1990	85.0		
0002050.0	1980 INDIAN BAY	NF CAN	49.04	53.54	60	B	1.46	1990	94.5		
0002060.0	1980 HANT BROOK	NF CAN	48.42	54.37	120	B	1.42	1990	B7.0		
0002070.0	1981 CHIBOUGAMAU	FQ CAN	50.10	73.55	375	B	1.37	1990	BB.0		
0120144.0	1981 CHICOUTIMI	FQ CAN	49.50	71.15	400	B	1.18	1989	B7.0		
0130010.0	1981 SITE REGION 34	ON CAN	N/A	N/A	N/A	N/A	1.24	1990	96.5		
0130040.0	1981 SITE REGION 34	ON CAN	N/A	N/A	N/A	N/A	0.93	1991	95.7		
0200554.0	1982 GOOSE BAY	NF CAN	53.17	60.25	10	B	1.32	1989	97.0		
0200565.0	1982 GORMACK	NF CAN	49.22	57.18	90	B	1.59	1990	97.5		
0200566.0	1982 EASTERN CHAIN LAKES	HF CAN	49.22	56.24	180	B	1.40	1989	93.0		
0200567.0	1982 HEAD POND	HF CAN	48.53	55.50	120	B	1.53	1990	93.5		
0200568.0	1982 BAIE VERTE JUNCTION	HF CAN	49.27	56.25	150	B	1.54	1990	91.8	RSB-CHFLIAK	
0200569.0	1982 BURNT BERRY	HF CAN	49.28	56.13	60	B	1.61	1990	97.0		
0233210.0	1982 CHAPLEAU	ON CAN	47.30	81.30	381	B	0.97	1991	100.0	NEW CONES	
0233230.0	1983 CHAPLEAU-HIGHLANDS	ON CAN	47.52	83.10	450	B150	0.87	1991	99.7	NEW CONES	
0233250.0	1983 CHAPLEAU-LOWLANDS	ON CAN	47.52	83.10	450	B150	0.87	1991	99.1	NEW CONES	
0233270.0	1982 HEARST	ON CAN	49.30	84.10	B	B	0.93	1991	99.0	NEW CONES	
0310644.0	1983 AUBURN	PE CAN	46.17	62.55	30	B(20)	1.35	1989	97.2		
0310645.0	1983 CARDROSS	PE CAN	46.16	62.39	45	B(50)	1.40	1988	97.2		
0310646.0	1983 SUMMERSIDE	PE CAN	46.32	64.01	30	B(50)	1.60	1988	98.8		
0430076.0	1984 COCHRANE-UPLANDS 1	ON CAN	49.24	80.18	B*	B*	0.97	1991	97.3	NEW CONES B(60-80)	
0430078.0	1984 COCHRANE-UPLANDS 2	ON CAN	49.16	80.28	B*	B*	0.97	1991	99.5	NEW CONES B(50-60)	
0430079.0	1984 COCHRANE-UPLANDS 2	ON CAN	49.16	80.28	B*	B*	0.93	1991	97.0	OLD CONES B(50-60)	
0430080.0	1984 COCHRANE-LOWLANDS 1 & 2	ON CAN	N/A	N/A	N/A	N/A	0.87	1991	98.5	NEW CONES	
0431459.0	1984 MCQUITTBREATH TOWNSHIP	ON CAN	49.24	80.30	B(6)	B(50)	0.88	1991	100.0		
0431504.0	1984 KAPASKASING DISTRICT	ON CAN	N/A	N/A	B	B	1.21	1991	83.8	FIRST KILN	
0431504.1	1984 KAPASKASING DISTRICT	ON CAN	N/A	N/A	B	B	1.18	1991	74.7	SECOND & THIRD KILNS	
0470097.0	1984 TSOO CREEK	BC CAN	59.10	123.20	350	N/A	1.25	1989	97.3		
0550171.0	1985 HIGHWAY 905	SK CAN	58.00	103.50	N/A	N/A	1.01	1990	100.0		

SEEDBANK NUMBER	YEAR	COLL. PROVENANCE	FV	CTRY	LAT	LONG (°)	ELEV (m)	TYPE	1000 Sdwt.	TEST	YEAR GERM	% REMARKS
8550173.0	1985	COMPLISSION BAY	SK	CAN	57.45	103.16	N/A	0.84	1990		99.0	
8550174.0	1985	HIDDEN BAY	SK	CAN	58.06	103.44	N/A	0.85	1990		98.0	
8550176.0	1985	WOLLASTON LAKE	SK	CAN	58.05	103.10	N/A	1.13	1990		99.0	
8550177.0	1985	URANIUM CITY #1	SK	CAN	59.34	108.38	N/A	1.01	1990		98.2	
8600518.0	1986	CORBACK	NF	CAN	49.20	57.20	B	1.59	1987		97.0	
8630180.0	1986	MEAGAMOU INDIAN RESERVE	ON	CAN	53.00	91.20	B	1.00	1990		98.0	RSB-BUREOSS
8731127.0	1987	HEARST	ON	CAN	50.08	83.50	B	0.90	1989		98.0	
8806179.0	1988	VALLEY BROOK	NF	CAN	48.52	56.05	B	1.49	1989		98.2	
BB00680.0	1988	MICHAEL'S BROOK	NF	CAN	48.46	56.20	B	1.52	1989		96.2	
BB00681.0	1988	ISLAND POND	NF	CAN	49.20	54.15	B	1.44	1989		90.0	
BB00682.0	1988	NAMBO	NF	CAN	48.50	54.05	B	1.38	1989		96.0	
BB10399.0	1988	BEAVER BROOK	NB	CAN	46.19	67.16	B	1.31	1989		97.2	
BB10399.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.51	1989		82.5	
BB10400.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.19	1989		98.5	
BB10401.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.82	1989		96.0	
BB10402.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.63	1989		98.0	
BB10403.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	2.11	1989		96.5	
BB10404.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.48	1989		98.0	
BB10405.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.32	1989		97.5	
BB10409.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.09	1989		96.0	
BB10410.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.54	1989		98.5	
BB10411.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	2.13	1989		97.2	
BB10412.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.7B	1989		99.0	
BB10414.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.86	1989		98.2	
BB10415.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	2.19	1989		93.5	
BB10416.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.86	1989		95.5	
BB10419.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.49	1989		97.5	
BB10421.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.50	1989		98.0	
BB10422.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.47	1989		98.5	
BB10423.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.85	1989		97.5	
BB10424.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.36	1989		99.0	
BB10425.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.53	1989		94.2	
BB10427.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	B	1.41	1989		99.5	
SPECIES	33,200	PICEA OMORIKA (Serbian spruce)										
7485190.0	1974		DEU									
SPECIES	33,250	PICEA ORIENTALIS (oriental spruce)										
-	80003.0	1983	TUR									
SPECIES	33,350	PICEA PINNENS var. GLAUCA (Colorado blue spruce)										
6080054.0		KATHAR FOREST	AZ	USA	36.37	112.15	N/A	4.05	1990		53.0	
6981820.0	1969	CLEAR CREEK, SANTA FE	NM	USA	35.30	106.00	N/A	4.39	1984		88.0	
8285450.0	1982	ROCKLAND	NY	USA	41.57	74.55	N/A	4.46	1990		60.5	
SPECIES	33,400	PICEA RUBENS (red spruce)										
20620.0	1956	WINDSOR MILLS	PQ	CAN	45.35	72.00	N/A	2.98	1988		73.2	
20630.0		FARNHAM	PQ	CAN	45.17	72.58	N/A	4.16	1989		91.8	
80610.0			NY	USA	41.57	74.55	N/A	3.40	1989		91.8	

SEEDBANK NUMBER	YEAR ENTD.	PROVENANCE	PV	CTRY	LAT	LONG (m)	TYPE	1000 S.DWT.	TEST	YEAR GERM	REMARKS
5210520.0	1952	SCOTS BAY	HS	CAN	45.18	64.24	B	2.79	1989	12.8	
5210530.0	1952	CORFERIE	NS	CAN	44.14	65.56	B	2.85	1989	13.0	
5310510.0	1953	BOYNE ROAD	HB	CAN	45.33	66.31	B	2.34	1989	94.5	
5380610.0	1956	ANDOPPA FOREST	NH	USA	46.45	72.55	300	B	3.87	1989	75.2
5620010.0	1956	LAC-EDOUARD	PQ	CAN	46.45	72.55	300	B	2.46	1987	83.2
5620520.0	1956	LAC-EDOUARD	PQ	CAN	46.57	71.32	215	N/A	2.45	1987	78.3
5620580.0	1956	A.F.E.S.	PQ	CAN	47.39	72.16	N/A	2.48	1989	85.0	
5620590.0	1956	LAC-EDOUARD	PQ	CAN	46.00	66.14	N/A	1.72	1989	29.2	
5910500.0	1959	RENDS-PLASTER ROCK HUT.	HB	CAN	46.45	66.00	B	2.95	1989	30.2	
6110200.0	1961	PROSSER BROOK	NB	CAN	45.45	65.00	B	3.44	1989	45.0	
6210210.0	1962	A.F.E.S.	HR	CAN	46.00	66.25	N/A	2.35	1987	58.0	
6210220.0	1962	A.F.E.S.	NB	CAN	46.02	66.14	N/A	1.72	1989	29.2	
6230240.0	1962	P.N.F.T.	ON	CAN	46.00	77.25	150	N/A	3.58	1989	94.0
6380260.0	1963	FARF & CLINTON COUNTY	NY	USA	44.30	73.30	B	3.07	1989	45.0	
6622370.0	1966	WINDSOR MILLS	PQ	CAN	45.35	72.00	N/A	2.98	1989	77.2	
02B4660.0	1982	PITTSTON FARM	ME	USA	45.45	69.45	N/A	3.08	1987	36.7	
0430954.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B(3)	3.31	1990	99.5
0430955.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B(2)	3.12	1990	98.2
0430956.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B	2.87	1990	77.2
0430957.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B	3.79	1990	81.0
0430958.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B	1.90	1990	99.2
0430959.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B	2.15	1990	99.2
0430960.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B	2.43	1990	98.0
0430961.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B	2.45	1990	98.5
0430962.0	1984	ALGONQUIN PARK	ON	CAN	45.17	78.11	490	R(3)	3.02	1990	98.2
SPECIES	33-450	PICEA SCHRENKIANA (Schrenk's spruce)									
0380669.0	1983	CH'ANG-CHI HUT, XINJIANG	CHN		44.00	89.00E	1000	N/A	7.62	1985	70.3
0480979.0	1984	XINJIANG YUNN PROVINCE	CHN		44.00	89.00E	1000	N/A	7.56	1990	56.5
SPECIES	33-500	PICEA STITCHENSIS (Sitka spruce)									
5580002.0		ULISBØL PLANTAGE	DNK		57.32	9.58E	N/A	2.27	1989	0.1	
5580004.0		TORNBY KLIT	DK				N/A	2.72	1989	1.5	HYBRID
5970590.0	1959	KALUM LAKE	BC	CAN			B	1.93	1989	13.2	
6680040.0	1966	PACIFIC COUNTY	WA	USA	47.00	124.00	B	2.61	1987	63.0	
6881020.0	1968	FORKS	WA	USA	48.04	124.18	140	6	2.38	1990	4.5
6881030.0	1968	HODUIM	WA	USA	47.05	124.03	6	2.20	1990	13.5	
6881040.0	1968	HEGANICUM	OR	USA	45.49	123.46	50	5	2.28	1988	4.5
6881140.0	1968	BRUCKINGS	OR	USA	42.15	124.23	90	5	2.47	1989	29.5
7073080.0	1970	WEDENE RIVER	BC	CAN	54.08	128.37	170	B	2.32	1987	90.8
7073860.0	1970	ISK FERRY	BC	CAN	54.38	128.24	140	B(21)	2.30	1989	91.2
7073870.0	1970	IVERNESS	BC	CAN	54.12	130.15	30	B(20)	2.38	1989	20.8
7073880.0	1970	LINK ROAD	BC	CAN	53.30	132.10	90	B	2.40	1987	91.8
7073890.0	1970	SALMON BAY	BC	CAN	50.23	125.57	R	2.23	1989	7.0	
7073900.0	1970	KIB QUALLICH RIVER	BC	CAN	49.23	124.37			2.44	1987	91.8
7073960.0	1970	KITWANGA	BC	CAN	55.10	127.52	670	B(16)	1.88	1989	50.8
7073970.0	1970	NOETICK, CHUCKWALLA RIVERS	BC	CAN	51.56	126.50	198	B(17)	2.18	1989	5.2
7073990.0	1970	DERRICK LAKE	BC	CAN	55.41	128.41	240	B(20)	1.65	1989	77.0
7074000.0	1970	CRANBERRY RIVER	BC	CAN	55.28	128.14	520	B(16)	1.65	1989	74.5
7074010.0	1970	FULMAR CREEK	BC	CAN	55.09	128.58	400	B(16)	2.11	1989	76.2
7074020.0	1970	CEDARVALE	BC	CAN	55.01	128.19	240	B(16)	2.11	1989	

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	FY	CTRY	LAT	LONG (°)	TYPE	1000 SdWt	TEST	% GERM	REMARKS
7074020.0	1970	PACIFIC GREEN	BC	CAN	54.46	128.15	B(25)	2.07	1989	77.0	
7093840.0	1970	DUCK WARD LAKE	OK	USA	58.22	134.35	B(20)	2.55	1989	21.8	
7063850.0	1970	QUEEN CHARLOTTE ISLAND	AK	USA	55.25	131.42	B	2.49	1989	4.5	
7272010.0	1972	NOOKE #2	BC	CAN	54.04	131.50	B	2.88	1990	50.8	
7272250.0	1972	VANCOUVER IS.	BC	CAN	48.22	123.44	B	2.08	1990	96.5	
7257290.0	1972	VALGEZ	AK	USA	61.07	146.16	B(5)	1.58	1989	1.8	
7575730.0	1975	PARKSVILLE	BC	CAN	49.10	124.30	B	2.57	1987	57.5	
8370632.0	1983	KHODIS GREEK	BC	CAN	53.42	132.09	B(3)	2.29	1988	94.2	
SPECIES	33,700	PICEA WILSONII									
0380674.0	1985	A-PA-TIBETAN, SICHUAN P.	CHN		32.00	102.00E	N/A	4.25	1985	66.2	
SPECIES	34,100	PINUS ALBICAULIS	Whitebark (scrub) Pine								
9761131.0			CAN	CAN					N/A		
88661177.0			AB	CAN					N/A		
SPECIES	34,200	PINUS BANKSIANA	(Jack pine)								
5130010.0	1951	BARRY'S BAY	ON	CAN	45.29	77.41	B	3.70	1987	23.5	
5830260.0	1958	LAKE TRAVERSE	ON	CAN	45.57	78.03	N/A	3.90	1987	88.5	
6730950.0	1967	DEEP RIVER	ON	CAN	46.06	77.30	S	3.15	1988	75.0	
6730960.0	1967	DEEP RIVER	ON	CAN	46.06	77.30	S	3.00	1986	91.0	
6730980.0	1967	DEEP RIVER	ON	CAN	46.06	77.30	S	3.63	1989	88.0	
6730990.0	1967	DEEP RIVER	ON	CAN	46.06	77.30	S	2.65	1989	86.5	
6830070.0	1968	SIOUT LOOKOUT	ON	CAN	50.09	91.48	B	3.24	1988	78.2	
6830070.1	1968	SIOUT LOOKOUT	ON	CAN	50.09	91.48	B	3.29	1987	49.0	
6830080.0	1968	C.F.B. - HIGHVIEW	ON	CAN	46.00	77.18	B	3.14	1990	93.0	
6830080.1	1968	C.F.B. - HIGHVIEW	ON	CAN	46.00	77.18	B	3.10	1989	89.0	
6951610.0	1969	CANDLE LAKE	SK	CAN	53.50	105.00	B	3.23	1989	92.0	
6951740.0	1969	EMMA LAKE	SK	CAN	53.55	105.50	B	3.13	1987	45.8	
7010500.1	1970	SHINNICKBURN	NB	CAN	46.30	66.00	B(2)	3.51	1989	75.0	
7020460.0	1970	CHURCH TOWNSHIP	PE	CAN	46.16	76.13	B	2.60	1990	90.5	
7020470.0	1970	RIVIERE MANICOUAGAN	PE	CAN	50.10	68.35	B(20)	3.18	1990	93.5	
7030320.0	1970	EVELYN TOWNSHIP	ON	CAN	48.40	81.00	B(33)	3.53	1985	84.0	
7030330.0	1970	GREENLAW TOWNSHIP	ON	CAN	47.40	82.47	B(5)	3.28	1990	65.5	
7030330.1	1970	GREENLOW TOWNSHIP	ON	CAN	47.40	82.47	B(5)	3.13	1989	39.5	
7030340.0	1970	BAIN TOWNSHIP	ON	CAN	49.52	86.24	B	3.36	1988	87.8	
7030350.0	1970	NIPIGON	ON	CAN	49.11	88.12	B	3.30	1988	89.5	
7030370.0	1970	CLEARWATER BAY	ON	CAN	49.44	94.49	B(3)	2.94	1988	92.0	
7030430.0	1970	QUETICO PROV. PARK	ON	CAN	48.39	92.14	B(20)	3.25	1988	99.0	
7030450.0	1970	BITI LAKE	ON	CAN	49.38	94.12	B(5)	3.03	1988	94.0	
7040360.0	1970	LAKE ST. MARTIN	BB	CAN	51.30	98.20	B	3.25	1990	88.0	
7050390.0	1970	LAC LA RONGE	SK	CAN	55.12	105.18	B(5)	2.94	1988	72.5	
7050400.0	1970	RIG RIVER	SK	CAN	53.44	107.12	B(7)	4.02	1988	81.8	
7257430.0	1972	MONTREAL LAKE	SK	CAN	54.16	105.37	N/A	3.38	1991	63.3	
7257450.0	1972	CANDLE LAKE	SK	CAN	53.45	105.15	N/A	3.04	1989	13.5	
7257460.0	1972	CHRISTOPHER LAKE	SK	CAN	53.34	105.40	N/A	3.28	1990	61.5	
7331300.0	1973	NICKLE TOWNSHIP	ON	CAN	49.10	85.40	N/A	3.30	1987	87.8	
7331420.0	1973	WELLS TOWNSHIP	ON	CAN	46.26	83.23	B(25)	3.09	1988	98.5	
7333410.0	1973	AUDREY LAKE	ON	CAN	49.45	94.10	B120	3.02	1988	92.6	
73333710.0	1973	C.F.B. - ORANGE ROAD	ON	CAN	45.57	77.22	150	3.08	1988	81.5	

SEEDBANK NUMBER	YEAR PROVENANCE	PV	CTRY	LAT	LONG (m)	TYPE	1000 Sdwt.	YEAR TEST	% GERM	REMARKS
7350080.0	1973 LA LOCHE	SK	CAN	56.22	109.12	B(6)	3.39	1988	16.5	
7350090.0	1973 MEADOW LAKE	SK	CAN	53.54	108.27	B	3.30	1988	88.0	
7350100.0	1973 MONTREAL LAKE	SK	CAN	54.16	105.37	B(7)	3.36	1988	74.2	
7350110.0	1973 SOUTHERN MONTREAL LAKE	SK	CAN	56.16	103.20	B(B)	2.85	1990	80.2	
7350120.0	1973 PRINCE ALBERT	SK	CAN	53.14	105.47	B(B)	3.88	1988	82.2	
7350130.0	1973 HUDSON BAY	SK	CAN	52.50	102.21	R(5)	3.95	1988	78.5	
7350140.0	1973 LA RONGE	SK	CAN	55.27	104.52	R(7)	2.94	1988	21.5	
7353330.0	1974 SWASTIKA	ON	CAN	47.30	80.00	N/A	3.19	1989	96.8	
7350260.0	1975 C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.29	N/A	3.50	1990	84.5	
78827550.0	1978 POINTE A DAVID	PQ	CAN	46.45	75.55	N/A	4.70	1988	98.8	
7836330.0	1978 HAWK LAKE	ON	CAN	49.45	93.57	B	3.08	1990	93.5	
7B36340.0	1978 WELLS TOWNSHIP	ON	CAN	46.25	83.21	B	3.29	1990	92.0	
7B36350.0	1978 GARIBALDI TOWNSHIP	ON	CAN	47.14	81.14	B	3.17	1990	94.8	
8021950.0	1980 BRIAND	PQ	CAN	46.54	76.02	S	3.90	1988	90.5	
8121300.0	1981 JULIETTE COUNTY	PQ	CAN	47.25	75.20	JAS	3.56	1984	87.5	
8233002.0	1983 P.N.F.I.	ON	CAN	46.00	77.25	N/A	4.42	1987	97.5	
B431460.0	1984 LONG LAKE	ON	CAN	44.47	79.26	B(5)	2.85	1990	98.0	
BB00172.0	1968 LABRADOR	NF	CAN		B		2.63	1988	63.0	
SPECIES	34,250 PINUS BUNGEANA (lacebark pine)									
B3B0677.0	1983 CHIN-NAN, SHANXI PROV.	CIN		35.00	111.00E	1000 N/A	112.38	1986	1.3	
SPECIES	34,280 PINUS CARIBaea var. CARIBaea									
7006740.0	1978 MARQUETAS PINAR DEL RIO	CUB		22.00	84.00	B	13.84	1989	30.5	
81B0140.0	1981 BAHIA HONDA	CUB		20.49	82.58	B(25)	15.14	1989	77.0	
SPECIES	34,290 PINUS CARIBaea var. HONDURENSIS									
B3B0660.0	1983 POPTUN	OTH		16.21	89.25	B150	17.91	1989	74.0	
SPECIES	34,300 PINUS Cembra var. (Swiss stone pine)									
8880297.0	1986 CARPATHIAN MOUNTAINS	SUN				B	261.90	1987	59.0	
8880298.0	1986 CARPATHIAN MOUNTAINS	SUN				B	305.82	1987	54.0	
8880299.0	1986 CARPATHIAN MOUNTAINS	SUN				B	305.10	1987	43.0	
8880300.0	1986 CARPATHIAN MOUNTAINS	SUN				B	315.46	1988	54.0	
SPECIES	34,310 PINUS Cembra var. SIBIRICA									
8181080.0	1981 NOVOSIBIRSKAYA OBLAST	SUN		55.00	80.00E	B	343.00	1984	21.3	
8181090.0	1981 TOMSKAYA OBL AST	SUN		58.00	80.00E	B	238.00	1984	13.5	
SPECIES	34,410 PINUS CONTORTA var. CONTORTA (shore pine)									
7073220.0	1970 RICHMOND	BC	CAN	49.10	123.10	33	2.67	1988	85.5	
7222070.0	1972 TERRACE	BC	CAN	54.52	128.47	150	2.33	1989	65.5	NO KILN
7222070.1	1972 TERRACE	BC	CAN	54.52	128.47	150	2.35	1989	56.2	KILN
SPECIES	34,430 PINUS CONTORTA var. LATIFOLIA (loddseole pine)									
5B50250.0	1958 CYPRESS HILLS PROV.	PARK	SK CAN	49.40	109.30	1220	B	5.89	1987	7.7

SEEDBANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELFU (a)	COLL. TYPE	1000 Sdwt.	TEST	YEAR %	GERM %	REMARKS
5960610.0	1959	ALLISON CREEK	BC	CAN	49.30	120.30	N/A	3.56	1.987	57.0				
6881120.0	1968	PRATRIE CITY	OR	USA	44.32	118.34	1500	S	4.50	1.987	91.7			
7060490.1	1970	KANAHASKIS RES. FOREST	AB	CAN	51.00	115.00	1370	B	4.37	1.989	89.7			SECOND KILN
7160350.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	R(5)	3.43	1.989	85.2			
7160360.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	3.32	1.989	58.0			FIRST KILN
7160370.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	2.80	1.989	92.5			FIRST KILN
7160380.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	3.67	1.989	93.8			FIRST KILN
7160390.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	4.89	1.989	89.8			FIRST KILN
7172000.0	1971	FORT ST. JAMES	BC	CAN	54.30	124.15	840	B	2.79	1.990	51.0			
7172010.0	1971	JACOBIE CREEK	BC	CAN	52.32	121.53	990	B	3.16	1.990	56.8			
7172020.0	1971	LAC LE JEUNE	BC	CAN	50.30	120.36	1300	B	3.87	1.990	39.8			
7172030.0	1971	HAZELTON	BC	CAN	55.15	127.30	750	B	2.74	1.990	46.2			
717230.0	1971	CLEARWATER	BC	CAN	51.40	119.56	530	B	3.48	1.990	58.0			
7122140.0	1971	HIBSON'S HOPP	BC	CAN	56.03	121.52	530	B	3.12	1.990	79.8			
7222040.0	1972	HAZELTON	BC	CAN	55.10	127.47	370	B	2.70	1.990	70.0			FIRST KILN
7222050.0	1972	MANSION CREEK	BC	CAN	55.40	124.30	730	B	2.58	1.990	67.0			FIRST KILN
7222060.0	1972	JACOBIE CREEK	BC	CAN	52.32	121.50	910	B	3.05	1.990	61.8			FIRST KILN
7222280.0	1972	MILE 101 ALASKA HIGHWAY	BC	CAN	56.45	121.44	880	B	3.27	1.986	86.0			
7222290.0	1972	ATLIN	BC	CAN	59.35	133.40	750	B	2.72	1.990	68.5			
7222300.0	1972	TAGISH LAKE	YT	CAN	60.14	134.24	780	B	2.76	1.990	54.8			
7247350.0	1974	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	2.72	1.989	61.8			
7557390.0	1975	PINETAN	BC	CAN	50.43	119.57	1100	B	3.72	1.985	57.0			
7557510.0	1975	WATSON LAKE	YT	CAN	60.10	128.50	725	B	2.90	1.985	83.0			
76265180.0	1976	ORANGE PRAIRIE FOREST	AB	CAN	55.10	118.46	8	B	3.46	1.987	87.5			
74278430.0	1976	FRASER LAKE	BC	CAN	54.12	124.26	850	B	2.90	1.990	79.0			
7628440.0	1976	RABINE LAKE	BC	CAN	54.24	125.30	1000	B	2.60	1.990	67.0			
76278450.0	1976	BABINE	BC	CAN	55.00	126.35	820	B	3.20	1.990	96.0			
7628460.0	1976	MONOWON	BC	CAN	56.43	121.50	950	B	3.30	1.990	86.0			
73278470.0	1976	BALDY HUGHES	BC	CAN	53.40	122.57	820	B	2.90	1.990	89.0			
76279160.0	1976	PEMENT LAKE	BC	CAN	50.40	119.29	1100	N/A	3.04	1.990	86.0			
7769720.0	1977	NORDREGG	AB	CAN	52.30	116.15	1375	B	4.00	1.990	52.5			
77279430.0	1977	NORTH RANCHERIA	YT	CAN	60.06	129.35	1008	B	2.70	1.990	82.5			
77279420.0	1977	TAGISH LAKE	YT	CAN	60.14	134.24	777	B	2.70	1.990	67.0			
77279480.0	1977	CHETWYND	BC	CAN	55.37	121.40	850	B	3.20	1.990	75.0			
77279490.0	1977	MONOWON	BC	CAN	56.45	121.44	884	B	3.30	1.990	88.5			
77279510.0	1977	TELKWA	BC	CAN	54.37	127.03	780	B	3.10	1.990	84.0			
77279520.0	1977	MONOWON	BC	CAN	56.43	121.50	950	B	3.30	1.990	85.0			
77279530.0	1977	CANOL ROAD	YT	CAN	61.08	132.50	900	B	3.30	1.990	73.0			
77279540.0	1977	TESLIN	YT	CAN	60.18	132.45	700	B	3.10	1.990	88.0			
77279550.0	1977	CASSSTAR	BC	CAN	59.17	129.50	760	B	3.40	1.990	91.0			
77279560.0	1977	WILLISTON	BC	CAN	56.00	122.10	815	B	3.10	1.990	93.0			
77279580.0	1977	SQUANGA	YT	CAN	60.30	133.45	853	B	3.00	1.990	55.0			
77279590.0	1977	QUIET LAKE	YT	CAN	62.08	132.50	900	B	3.09	1.990	68.0			
77279600.0	1977	CARHACKS	YT	CAN	62.08	135.15	620	B	2.88	1.990	70.0			
77279610.0	1977	SIMPSON LAKE	YT	CAN	60.45	129.10	760	B	3.07	1.990	78.0			
77279620.0	1977	TAGISH	YT	CAN	60.20	134.30	850	B	3.04	1.990	73.0			
77279640.0	1977	NATION RIVER	BC	CAN	55.15	124.10	950	B	2.74	1.990	79.5			
77279650.0	1977	FORT ST. JAMES	BC	CAN	54.30	124.10	900	B	2.79	1.989	71.2			
77279670.0	1977	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	2.90	1.990	80.0			
77279680.0	1977	TESLIN	YT	CAN	60.15	132.50	750	B	2.88	1.990	67.8			
77279700.0	1977	BABINE LAKE	BC	CAN	54.24	125.30	1000	B	2.52	1.987	83.2			
77279710.0	1977	Moberly Lake	BC	CAN	55.40	121.25	750	B	3.20	1.987	85.2			

SEED BANK NUMBER	YEAR	COLL.	PROVENANCE	PV	CTRY	LAT	LONG (E)	TYPE	1000 SdWt.	YEAR TEST	% GFRH	REMARKS	
7779740.0	1977	PINK MOUNTAIN	BC	CAN	51.00	122.40	1050	B	3.26	1989	87.0		
7877130.0	1978	LONG LAKE	YT	CAN	60.49	135.06	701	B	2.89	1989	86.0		
7877150.0	1978	SQUANGA	YT	CAN	60.30	133.45	853	B	2.76	1989	65.2		
7877160.0	1978	TAGISH	YT	CAN	60.20	134.30	850	B	2.96	1989	71.0		
7877170.0	1978	CARACKS	YT	CAN	62.08	135.15	620	B	3.00	1990	85.5		
7877190.0	1978	TESLIN	YT	CAN	60.18	132.45	700	B	2.84	1989	70.0		
7974030.0	1979	ANNIE LAKE	YT	CAN	60.25	134.50	800	B	3.00	1990	76.0		
8960096.0			AB	CAN				B	3.75	1991	91.0		
SPECIES	34.440	PINUS CONTORTA var. MURRAYANA											
6881130.0	1968	CAMP NELSON	CA	USA	36.06	118.32	2160	S	5.88	1989	28.2		
SPECIES	34.490	PINUS COULTERI blit-cone (Coastal) pine											
7887530.0	1987	CALIF. SEED ZONE 997	CA	USA	33.50	116.50	1667	N/A	278.53	1990	85.5		
SPECIES	34.495	PINUS DENSATA											
0380667.0	1983		CHN						N/A	12.30	1989	58.5	
SPECIES	34.500	PINUS DENSIFLORA (Japanese red pine)											
7383200.0	1973	IWATE PREFECTURE	JPN		39.40	141.10E	205	B	10.63	1984	80.0		
7383761.0	1973	IWATE PREFECTURE	JPN		39.03	141.05E	120	N/A	11.61	1989	91.0	PL	
74B7519.0	1974	IWATE PREFECTURE	JPN		39.15	141.23E	250	N/A	6.59	1989	48.2	PL	
0380868.0	1983	FUKUSHIMA PREFECTURE	JPN		37.34	140.50E	390	N/A	6.45	1986	88.5		
SPECIES	34.553	PINUS ELLIOTTII (slash pine)											
75R1510.0	1975		GA USA						N/A	36.21	1984	60.0	
SPECIES	34.650	PINUS HALPENSIS (Aleppo pine)											
78B0470.0	1978	PISHIN (QUTTA)	PAK		30.15	67.00E	1500	N/A	62.10	1987	67.5		
SPECIES	34.653	PINUS HELDREICHII var. LEUCODERMIS											
1180013.0		CRNA GORICA, NIKSIC	YUG						N/A	22.96	1986	59.5	
SPECIES	34.659	PINUS KESIYA											
79R0470.0	1979	HAE SAIR	THA		19.00	98.45E	1050	N/A	20.22	1988	93.0		
87B1130.0	1987	DOI INTHONON							N/A	23.61	1991	96.5	
SPECIES	34.700	PINUS KOREANIENSIS (Korean pine)											
8480972.0	1984	JILIN PROVINCE	CHN		43.00	126.00E		N/A	449.00	1985	22.7		
SPECIES	34.800	PINUS LAMBERTIANA (swamp pine)	DR USA						B				
7383320.0	1973												

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG (m)	ELEV COLL (m)	COLL TYPE	1000 Sdwt.	TEST	YEAR TEST	% GERM	REMARKS
SPECIES 34.820	PINUS HERKUTII												
83R0658.0	1983	NANG KHU	THA		14.43	103.30E	180	B(2)	20.01	1989	20.0		
86R0783.0	1986	TUNG PHAYA							39.09	1991	68.5		
SPECIES 34.900	PINUS MONTICOLA (western white (silver) pine)												
7071810.0	1970	ADAMS LAKE	BC	CAN	51.25	119.30	550	B		11.66	1983	52.0	
7477320.0	1974	ADAMS LAKE	BC	CAN	51.25	119.30	700	B		15.80	1987	20.2	
7679320.0	1976	WEST ADAMS	BC	CAN	50.53	119.46	686	N/A		16.40	1984	56.0	
8370630.0	1983	ADAMS LAKE	BC	CAN	51.30	119.33	1050	N/A		14.10	1984	22.0	
8370631.0	1983	ADAMS LAKE	BC	CAN	51.22	119.30	425	N/A		15.15	1984	12.5	
8570234.0	1985	BLACK JACK RIDGE	BC	CAN			685	B(75)		13.90	1986	12.0	
8570235.0	1985	HALFMONTH BAY ROAD	BC	CAN	49.36	123.54	690	B(7)		13.09	1986	16.0	
8570236.0	1985	UPPER CANOE	BC	CAN	52.45	119.15	1050	B*		13.77	1986	4.0	B(205)
8971102.0	1988	BLACKCOMB	BC	CAN	50.08	122.55	650	B*		17.78		B(100+)	
8871103.0	1988	ANAMISH	BC	CAN	49.42	123.02	470	B		16.35			
SPECIES 35.130	PINUS HUGO VAR PUMILIO												
1180014.0	RENAN PLATEAU, S. TIROL	ITA								5.04	1986	55.5	
SPECIES 35.150	PINUS HUGO VAR. ROSTRATA												
75B1511.0	1975 CONFLUENT VALLEY	FRA			42.32	2.0BE	1800	N/A		7.88	1986	78.0	
SPECIES 35.170	PINUS MURICATA												
1180009.0		NZL											
SPECIES 35.200	PINUS NIGRA (Austrian pine)												
7485410.0	1974		AUT										
8370037.0	1983	TORONTO	ON	CAN	43.43	79.23	150	B		16.96	1988	82.5	
8781133.0	1987	BAIA DE ARIES	ROM		46.30	23.25	505	B		30.66	1988	47.5	PL
8881178.0	1988	ALTA JULIA DISTRICT	ROM		46.45	23.30	350	B		22.31			
8881179.0	1988	SCROUSTEA DISTRICT	ROM		44.45	26.10	95	B		20.05			
8881181.0	1988	RIMNICU VLICEA DISTRICT	ROM		45.00	23.40	350	B		28.40			
8980934.0	1989	DORRA SEED ORCHARD	ROM		45.40	23.15	170	B		18.49			
8980935.0	1989	DORRA SEED ORCHARD	ROM		45.40	23.15	170	B		26.40			
SPECIES 35.235	PINUS NIGRA var. KOEKELARE												
8181290.0	1981 HALLE #504H SEED ORCHARD	BEL			50.44	4.14E	N/A			18.37	1989	63.0	PL
SPECIES 35.260	PINUS OCARPA												
7789310.0	1977 TEMASCALTEPEC-TEJUPILO	MEX			18.57	100.05	1675	B		23.06	1989	74.0	
7789320.0	1977 LA LOBERA	HEX			17.03	99.58	1250	B		20.79	1989	92.0	
8280546.0	1982 GUINOPÉ	HND			13.58	87.01	1400	B200		16.91	1984	94.0	
SPECIES 35.700	PINUS FUMILA												

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Swt	COLL TEST	YEAR GERM	% REMARKS
5730330-0	1953	STURGEON FALLS	ON	CAN	46.22	79.55	N/A	N/A	8.08	1988	19.0	
5730330-0	1957	ZONE 6	ON	CAN	46.00	87.00	N/A	N/A	7.49	1988	87.7	
5780350-0	1957	DELTA COUNTY	MI	USA	46.00	87.00	N/A	N/A	8.28	1988	82.5	
6030280-0	1960	P.M.F.I.	ON	CAN	45.57	77.30	200	N/A	8.40	1988	40.2	
6632340-0	1966	P.N.F.I.	ON	CAN	45.36	77.31	150	B	8.30	1988	36.2	
6632360-0	1966	P.N.F.I.	ON	CAN	45.58	77.24	160	B	9.35	1988	48.2	
6730620-0	1967	P.N.F.I.	ON	CAN	45.58	77.30	190	B	9.58	1988	88.5	
6830060-0	1968	SIOUX LOOKOUT	ON	CAN	50.04	91.57	370	B	7.17	1988	80.8	
6931540-0	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	7.80	1988	97.2	FIRST KILN
6931540-2	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.60	1990	90.5	THIRD KILN
6931520-0	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.60	1990	86.0	FIRST KILN
6931530-0	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.70	1990	98.5	FIRST KILN
6931540-0	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	9.45	1990	91.0	FIRST KILN
6931540-2	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.10	1990	93.8	THIRD KILN
6931560-0	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	9.00	1990	90.0	FIRST KILN
6931560-2	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	7.84	1988	29.0	THIRD KILN
6931570-0	1969	G.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.46	1990	87.5	FIRST KILN
6931580-1	1969	P.N.F.I.	ON	CAN	45.58	77.34	210	S	9.06	1988	56.2	SECOND KILN
6931590-0	1969	P.N.F.I.	ON	CAN	45.58	77.34	210	S	8.42	1988	89.8	FIRST KILN
7010280-0	1970	BEAVER LAKE	NS	CAN	44.14	65.20	140	B(10)	7.58	1988	97.8	
7010310-0	1970	TRACY	HB	CAN	45.43	66.42	60	B(5)	8.37	1990	97.8	FIRST KILN
7023040-0	1970	NORWAY-BAY	PQ	CAN	45.32	76.26	80	B	8.46	1988	97.5	
7030170-0	1970	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.22	140	S	10.77	1988	29.0	FIRST KILN
7030180-0	1970	C.F.B. - HIGHVIEW	ON	CAN	46.00	77.19	150	S	8.56	1988	96.2	FIRST KILN
7030190-0	1970	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.22	140	S	9.37	1990	99.0	FIRST KILN
7030200-0	1970	C.F.B. - THOMPSON L.	ON	CAN	46.01	77.21	180	B(5)	9.62	1988	98.5	FIRST KILN
7030210-0	1970	DRIFTWOOD PROV. PARK	ON	CAN	46.11	77.51	150	S	8.73	1988	99.0	FIRST KILN
7030220-0	1970	DRIFTWOOD PROV. PARK	ON	CAN	46.11	77.51	150	S	7.37	1988	99.0	FIRST KILN
7030240-0	1970	DRIFTWOOD PROV. PARK	ON	CAN	46.11	77.51	150	S	8.80	1990	99.0	FIRST KILN
7030250-0	1970	ELDRIDGE TOWNSHIP	ON	CAN	47.00	79.30	310	B	8.05	1990	98.0	FIRST KILN
7030260-0	1970	MACINTYRE	ON	CAN	49.18	88.05	370	B	8.39	1990	96.5	FIRST KILN
7030270-0	1970	AGAWA BAY	ON	CAN	47.20	84.38	210	B(5)	8.38	1988	96.2	
7030290-0	1970	ATTIKONAH	ON	CAN	48.38	91.47	410	B(30)	8.80	1988	93.5	
7030300-0	1970	FRENCH LAKE	ON	CAN	48.41	91.07	440	B(45)	8.73	1988	99.0	
7033920-0	1970	STONECLIFFE	ON	CAN	46.12	77.58	210	N/A	7.61	1990	74.8	
7232200-0	1972	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.65	1988	98.0	FIRST KILN
7232200-0	1972	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	B(3)	8.87	1991	97.0	FIRST KILN
7232230-1	1972	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	B(3)	8.99	1988	98.0	SECOND KILN
7807560-0	1978	ROUSSELLS BROOK	HF	CAN	49.14	56.27	270	B	6.52	1989	77.2	
8930094-0	1989	CHALK RIVER	ON	CAN	46.01	77.27	270	B	9.48	1989	85.0	
SPECIES	35.900	PINUS RESINOSA (red Norway Pine)										
8530122-0	1985	BASS LAKE	ON	CAN	44.35	76.05	152	B(10)	7.08	1990	93.2	GPC-RF
8530123-0	1985	ELGIN	ON	CAN	44.37	76.13	145	B(6)	5.86	1990	63.0	GPC-RF
8530124-0	1985	RED HORSE LAKE	ON	CAN	44.32	76.05	152	B(8)	7.19	1990	47.5	
8620268-0	1986	ST. ANTOINE-ABBE	ST.		45.03	73.53	5		6.12	1990	42.0	
8620269-0	1986	ST. ANTOINE-ABBE	PO	CAN	45.03	73.53	5		5.23	1990	48.0	
SPECIES	36.100	PINUS RIGIDA (pitch pine)										
8530122-0	1985	BASS LAKE	ON	CAN	44.35	76.05	152	B(10)	7.08	1990	93.2	GPC-RF

SEED BANK NUMBER	YEAR COLL.	PROVENANCE	PU	CTRY	LAT	LONG (°)	TYPE	COLL	ELEV	YEAR TEST	TEST	% GERM	REMARKS
B620270, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	7.20	1990	98.0			
B620271, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	5.65	1990	91.8			
B620272, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	9.09	1990	91.5			
B620273, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	5.35	1990	87.5			
B620274, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	5.24	1990	95.0			
B620275, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.48	1990	75.0			
B620276, 2	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	4.66	1987	82.2			
B620277, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.50	1990	85.0			
B620278, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.11	1990	49.8			
B620279, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.82	1990	86.5			
B620280, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	5.96	1990	87.0			
B620281, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	7.27	1990	96.5			
B620282, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	9.08	1990	94.0			
B620283, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	8.27	1990	95.5			
B620284, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	8.02	1990	90.8			
B620285, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.53	1987	88.0			
B620286, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.11	1987	73.5			
B620287, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	5.43	1987	32.5			
B620288, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	6.16	1987	94.2			
B620289, 0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53	S	4.57	1990	70.2			
B630122, 0	1986	HILL ISLAND	ON	CAN	44.21	75.59	SD	6.20	1990	95.5			
B630156, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	5.63	1990	97.5			
B630157, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	8.39	1990	100.0			
B630158, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	8.43	1989	95.2			
B630159, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	6.80	1989	99.5			
B630160, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	6.41	1989	94.5			
B630161, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	9.28	1989	98.0			
B630162, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	8.93	1989	97.0			
B630163, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	11.83	1989	97.5			
B630165, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	9.22	1989	100.0			
B630167, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	76.06	SD	8.48	1989	97.5			
B630168, 0	1986	SOUWAN ISLAND	ON	CAN	44.19	77.06	SD	7.79	1989	97.0			
B630169, 0	1986	CAMELOT ISLAND	ON	CAN	44.18	77.07	SD	4.21	1986	90.0			
B630171, 0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.07	SD	7.69	1990	90.5			
B630172, 0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.07	SD	6.41	1986	96.0			
B630173, 0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.07	SD	5.28	1990	97.5			
B630174, 0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.06	SD	5.18	1990	90.0			
B630175, 0	1986	HILL ISLAND	ON	CAN	44.21	75.58	SD	5.12	1989	98.5			
B630176, 0	1986	HILL ISLAND	ON	CAN	44.21	77.58	SD	7.65	1989	99.0			
B630177, 0	1986	HILL ISLAND	ON	CAN	44.21	75.57	SD	6.21	1989	99.2			
B630178, 0	1986	HILL ISLAND	ON	CAN	44.21	75.57	SD	9.76	1989	99.2			
B630179, 0	1986	HILLORYTOWN	ON	CAN	44.27	75.52	SD	8.37	1987	99.5			
SPECIES 36,150 PINUS ROXBURGHII													
7680660, 0	1978	GHORA GALL	PAK		33.55	73.32E	1200	N/A	80.95	1984	95.0		
SPECIES 36,180 PINUS SIBIRICA													
8480970, 0	1984	XINJIANG UYGUR PROVINCE	CHN		44.00	89.00E	N/A	231.76	1985	0.1			
8580069, 0	1985	HALGY GOL DUSTNOYE	SUN		52.20	105.15E	250	215.45	1990	23.0			
8780332, 0	1987	KEMERDVO DISTRICT	SUN					225.41					
8780780, 0	1987		SUN					N/A	21B.64				

SEED BANK  
NUMBER  
YEAR  
COLL.  
PROVENANCE  
SPECIES 36,190 PINUS STROBIFORVIS (southwestern white pine)

B480008.0 1984 LINCOLN NAT. FOREST HH USA 33.00 105.00 N/A 201.18 1989 75.0

## SPECIES 36,200 PINUS STROBOS Eastern white (Weymouth) pine

YEAR	COLL.	PV	CITY	LAT	LONG	ELEV	COLL. (m)	1000 Sdwt.	YEAR TEST	% GERM	REMARKS
5920072.0	1959	ST. CHARLES DE MONTREAL	PO CAN	46.17	73.25	214	N/A	19.73	1988	28.0	
5930070.0	1959	ZONE 6E	ON CAN	45.53	77.33	230	B	16.83	1984	83.0	
5930071.0	1959	C.F.B.	ON CAN	45.53	77.33	230	B	15.43	1990	52.2	
6080067.0	1960	HAYWARD	WI USA	46.00	91.25	N/A	17.85	1988	7.3		
6120023.0	1961	CHICOUTIMI	PO CAN	48.26	71.04	N/A	14.93	1990	49.0		
6630240.0	1966	P.N.F.I.	ON CAN	45.58	77.27	150	S	19.17	1989	10.5	
6630280.0	1966	C.F.B. - PETAWAWA R.	ON CAN	45.55	77.29	170	S	17.56	1988	54.0	
6630290.0	1966	C.F.B. - PETAWAWA R.	ON CAN	45.55	77.29	170	S	17.35	1990	90.7	
6630300.0	1966	C.F.B. - PETAWAWA R.	ON CAN	45.55	77.29	170	N/A	14.95	1988	55.5	
6630430.0	1966	C.F.B. - PETAWAWA R.	ON CAN	45.53	77.29	170	S	15.88	1988	16.3	
6630440.0	1966	C.F.B. - PETAWAWA R.	ON CAN	45.56	77.33	150	S	18.16	1991	6.0	
6630480.0	1966	P.N.F.I.	ON CAN	45.58	77.33	150	S	15.05	1987	43.5	
6632450.0	1966	C.F.B. - MONTGOMERY L.	ON CAN	45.59	77.28	150	R(10)	13.23	1986	13.5	
6632460.0	1966	P.N.F.I.	ON CAN	45.56	77.33	150	S	12.46	1984	35.0	
6630090.0	1967	P.N.F.I.	ON CAN	46.00	77.30	200	B	13.71	1990	19.5	
6730110.0	1967	C.F.B. - PETAWAWA R.	ON CAN	45.57	77.28	200	S	18.60	1991	0.1	
6730130.0	1967	C.F.B. - PETAWAWA R.	ON CAN	45.55	77.27	150	S	26.30	1991	47.3	
6730170.0	1967	C.F.B. - PETAWAWA R.	ON CAN	45.55	77.27	150	S	15.30	1986	28.5	
6731760.0	1967	P.N.F.I.	ON CAN	45.55	77.27	150	S	20.21	1990	31.2	
7011270.0	1970	CAMBRIDGE TOWNSHIP	NB CAN	45.50	66.05	60	R(5)	22.41	1988	18.0	
7031230.0	1970	ATKINSON	ON CAN	48.38	92.14	400	R(5)	17.44	1988	30.0	
7031250.0	1970	FILDIDGE TOWNSHIP	ON CAN	47.00	79.30	310	R	11.65	1988	17.3	
7031280.0	1970	PARRY SOUND	ON CAN	45.20	79.58	210	B(3)	15.30	1986	16.2	
7031320.0	1970	P.N.F.I.	ON CAN	45.55	77.25	170	S	17.18	1991	2.0	
7031350.0	1970	P.N.F.I.	ON CAN	45.53	77.25	170	N/A	22.67	1989	1.0	
7031370.0	1970	P.N.F.I.	ON CAN	45.58	77.27	180	S	14.77	1988	39.0	
7230010.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	19.57	1988	7.5	
7230020.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	B(2)	14.28	1987	0.5	
7230050.0	1972	P.N.F.I.	ON CAN	45.59	77.25	170	S	21.36	1986	43.0	
7230060.0	1972	P.N.F.I.	ON CAN	45.58	77.27	180	S	17.90	1987	24.0	
7230070.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	B(3)	22.91	1988	4.0	
7230080.0	1972	P.N.F.I.	ON CAN	45.59	77.25	170	N/A	14.35	1987	72.0	
7230090.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	19.78	1991	0.5	
7230110.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	21.36	1986	51.5	
7230120.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	B(3)	20.48	1989	34.5	
7230130.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	19.94	1988	44.5	
7230140.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	B(3)	20.67	1987	51.5	
7230170.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.25	170	N/A	18.57	1987	71.0	
7230190.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	19.14	1988	57.0	
7230200.0	1972	P.N.F.I.	ON CAN	45.53	77.30	200	S	24.44	1989	51.0	
7230220.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	B(4)	23.09	1989	1.5	
7230240.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	19.46	1989	48.5	
7230280.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	N/A	20.55	1989	18.0	
7230290.0	1972	C.F.B. - BIGGAR L.	ON CAN	45.53	77.30	200	S	22.00	1987	36.0	
7230310.0	1972	P.N.F.I.	ON CAN	45.53	77.30	200	S	22.45	1991	51.5	
7230320.0	1972	P.N.F.I.	ON CAN	45.55	77.25	170	S	27.50	1991	14.0	
			ON CAN	45.55	77.25	170	S	20.01			

SEEDBANK NUMBER	YEAR GROW.	PROVENANCE	PV	CTRY	LAT	LONG (°)	ELEV (m)	COLL TYPE	1000 Sdwt	TEST	GERM %	REMARKS
7230340.0	1972	P.N.F.I.	ON	CAN	45.55	77.25	170	S	16.80	1987	47.2	
7230370.0	1972	C,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	B(3)	22.10	1991	2.5	
7230380.0	1972	P.N.F.I.	ON	CAN	45.58	77.25	168	S	16.36	1991	23.5	
7230390.0	1972	P.N.F.I.	ON	CAN	45.58	77.25	170	S	15.40	1991	72.0	
7230400.0	1972	C,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	S	26.20	1987	17.8	
7230410.0	1972	C,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	S	18.10	1987	38.5	
7230420.0	1972	C,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	S	21.20	1987	33.0	
7230430.0	1972	F,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	S	17.10	1987	59.2	
7230440.0	1972	C,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	S	22.20	1991	20.0	
7230450.0	1972	C,F,B,- BIGGAR L.	ON	CAN	45.53	77.30	200	S	14.27	1989	48.8	
7331450.0	1973	P.N.F.I.	ON	CAN	45.59	77.26	180	N/A	16.20	1987	69.5	
7331460.0	1973	P.N.F.I.	ON	CAN	46.00	77.25	160	N/A	19.50	1991	48.5	
7331480.0	1973	P.N.F.I.	ON	CAN	45.59	77.25	160	N/A	19.92	1991	62.0	
7331490.0	1973	P.N.F.I.	ON	CAN	45.59	77.25	160	S	10.80	1991	1.0	
7331500.0	1973	P.N.F.I.	ON	CAN	45.58	77.24	160	S	15.60	1991	4.2	
7331510.0	1973	P.N.F.I.	ON	CAN	45.59	77.26	180	S	25.20	1991	60.2	
7331520.0	1973	P.N.F.I.	ON	CAN	45.59	77.26	180	B(2)	19.85	1989	11.0	
7235560.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	12.85	1991	84.0	
7235590.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	13.28	1991	38.0	
7235600.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	15.22	1991	75.0	
7235610.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	11.34	1991	9.0	
7235620.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	18.45	1991	37.0	
7235630.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	14.88	1988	85.5	
7235670.0	1977	PAUDASH TOWNSHIP	ON	CAN	47.16	81.45	400	B(10)	13.37	1988	63.8	
7235680.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	17.22	1991	4.5	
7235700.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	12.84	1991	0.1	
7235720.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	19.86	1991	93.0	
7235740.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	16.81	1986	88.5	
7931210.0	1979	DEEP RIVER	ON	CAN	46.06	77.29	115	R(5)	19.71	1987	94.2	
7931230.0	1979	C,F,B,- TUCKER CREEK	ON	CAN	45.59	77.23	150	S	20.93	1991	96.0	
7931240.0	1979	C,F,B,- TUCKER CREEK	ON	CAN	45.59	77.23	150	S	18.37	1987	99.0	
7931260.0	1979	C,F,B,- TUCKER CREEK	ON	CAN	45.59	77.23	150	S	19.20	1992	97.0	
7931270.0	1979	C,F,B,- TUCKER CREEK	ON	CAN	45.59	77.23	150	S	17.76	1987	98.7	
7931280.0	1979	C,F,B,- TUCKER CREEK	ON	CAN	45.59	77.23	150	S	16.04	1991	46.0	
7931300.0	1979	C,F,B,- TUCKER CREEK	ON	CAN	45.59	77.23	150	S	19.90	1987	99.0	
8100146.0	1981	GREAT RATTLING BROOK	NF	CAN	48.58	55.32	30	B	20.68	1991	81.5	
8233380.0	1982	P.N.F.I.	ON	CAN	45.58	77.29	200	B(4)	11.60	1991	68.5	
8530079.0	1985	ALGOMAINE PARK	ON	CAN	45.53	77.42	200	B(B)	11.99	1991	93.2	
8530080.0	1985	ALGOMAINE PARK	ON	CAN	45.53	77.42	200	B(B)	11.46	1985	98.3	
8530189.0	1985	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B(10)	19.95	1986	95.5	
8620151.0	1986	CANTON LOUISE	PQ	CAN					16.75	1991	71.0	
8620152.0	1986	SEIGNEURIE-PETITE NATION	PQ	CAN								
8620153.0	1986	CANTON AUBRY	PQ	CAN								
8620154.0	1986	SEIGNEURIE AUBIN L' ISLE	PQ	CAN								
8930575.0	1989	P.N.F.I.	ON	CAN	45.58	77.24	9	S	15.01	1991	90.8	
8930576.0	1989	P.N.F.I.	ON	CAN	45.59	77.26	9	S	20.84	1990	98.0	
8930577.0	1989	P.N.F.I.	ON	CAN	45.59	77.26	9	S	19.67	1990	97.0	
8930578.0	1989	P.N.F.I.	ON	CAN	45.58	77.25	9	S	17.57	1991	90.2	
8930579.0	1989	P.N.F.I.	ON	CAN	45.58	77.28	9	S	22.14	1991	90.8	
8930580.0	1989	P.N.F.I.	ON	CAN	46.01	77.25	9	S	15.01	1990	98.0	
8930581.0	1989	CHALK RIVER	ON	CAN	46.00	77.24	9	S	22.63	1990	83.0	
8930582.0	1989	CHALK RIVER	ON	CAN	46.00	77.26	9	S	20.61	1990	97.5	
8930583.0	1989	CHALK RIVER	ON	CAN	46.01	77.27	9	S	17.45	1990	93.0	
									18.85	1990	82.8	

RSUD-MILLER

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	(m)	ELEV	COLL TYPE	1000 Sdwt	TEST	% GERM	REMARKS
B930584.0	1989	CHALK RIVER	ON	CAN	46.01	77.28	S	16.08	1991	95.3			
6930585.0	1989	HACKEY	ON	CAN	46.10	77.40	S	15.82	1990	90.0			
SPECIES	36.220	PINUS STROBUS var. CHIAPENSIS											
7687790.0	1976	TLAPACOYAN VER.	MEX		19.55	97.15		775	N/A	10.00	1983	14.0	
SPECIES	36.300	PINUS SYLVESTRIS L Scotch (Scots) Pine											
7081650.0	1970	ORLOVSKAYA OBLAST	SUN	SUN	53.00	35.00E	B			6.82	1988	58.2	
7081660.0	1970	KIEVSKAYA OBLAST	SUN	SUN	50.00	30.00E	B			6.80	1988	29.2	
7082000.0	1970	ELVA, ESTONIYA S.S.R.	SUN	SUN	58.20	26.00E	B			5.64	1988	65.5	
71B1900.0	1971	VORU, ESTONIYA S.S.R.	SUN	SUN	57.50	27.00E	B			5.98	1988	54.0	
71B1910.0	1971	VALGAHAA, ESTONIYA S.S.R.	SUN	SUN	57.45	26.00E	B			6.30	1988	70.5	
71B5540.0	1971	BRUKSFRO, GUNNARSKOG	SWE	SWE	59.48	12.34E	300	B		4.50	1987	78.8	
71B5560.0	1971	BRUKSFRO, GUNNARSKOG	SWE	SWE	59.48	12.34E	300	B		6.30	1991	69.0	
7233490.0	1973	THESSALON	ON	CAN	46.15	83.24	S			9.66	1988	94.2	PL
72383420.0	1973	MURAT	FRA	FRA	45.06	2.15E	S			7.24	1989	82.5	
723B3460.0	1973	BALNAGOWAN WOOD	SCO	SCO	57.16	3.09	240	S		9.30	1991	42.2	
7383470.0	1973	BALNAGOWAN WOOD	SCO	SCO	57.16	3.09	240	S		7.26	1988	37.8	
7383480.0	1973	BALNAGOWAN WOOD	SCO	SCO	57.16	3.09	240	S		6.37	1988	97.2	
7383550.0	1973	MORAYSHIRE	SCO	SCO	57.33	3.29	S			8.23	1991	25.0	
7383560.0	1973	MORAYSHIRE	SCO	SCO	57.33	3.29	S			8.20	1988	67.5	
7383570.0	1973	MORAYSHIRE	SCO	SCO	57.33	3.29	S			12.10	1991	25.0	
74B6670.0	1974	VILNIUS, LITUA S.S.R.	SUN	SUN	54.38	25.28E	100	B		6.60	1988	29.8	
74B6680.0	1974	JONAVOS, LITUA S.S.R.	SUN	SUN	55.15	24.20E	110	B		6.37	1991	55.2	
74B6690.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.05E	100	N/A		5.83	1988	82.0	PL
74B66700.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.03E	100	N/A		5.87	1990	35.8	PL
74B66730.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.03E	100	N/A		7.26	1988	60.0	PL
74B66740.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.03E	100	N/A		6.15	1988	96.0	PL
74B66760.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.05E	100	N/A		6.23	1988	47.0	PL
74B66780.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.05E	100	N/A		6.39	1988	19.5	PL
74B66790.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.05E	100	N/A		5.55	1988	49.0	PL
74B66800.0	1974	KAUNO, LITUA S.S.R.	SUN	SUN	54.45	24.05E	100	N/A		6.36	1988	22.0	PL
74B73360.0	1974	TARTU, ESTONIYA S.S.R.	TUR										
75B1490.0	1975	NOVSJIBIRSKAYA OBLAST	SUN	SUN	58.22	26.40E	60	N/A		5.57	1988	86.0	
B1B1100.0	1981	MARISKAYA OBLAST	SUN	SUN	55.00	80.00E	B			6.25	1988	77.5	
B1B1110.0	1981	MARISKAYA OBLAST	SUN	SUN	56.00	47.00E	B			6.39	1988	92.5	
B1B1120.0	1981	MARISKAYA OBLAST	SUN	SUN	56.00	47.00E	B			6.93	1988	92.5	
B1B1130.0	1981	TATARSKAYA ASSR	SUN	SUN	55.00	50.00E	B			6.87	1988	96.2	
B1B1140.0	1981	TATARSKAYA ASSR	SUN	SUN	55.00	50.00E	B			7.09	1988	87.5	
B1B1150.0	1981	VORONEZHSKAYA OBLAST	SUN	SUN	50.30	40.00E	B			8.17	1988	83.0	
B1B1160.0	1981	ORLOVSKAYA OBLAST	SUN	SUN	52.30	37.00E	B			7.56	1988	77.7	
B1B1170.0	1981	KIEVSKAYA OBLAST	SUN	SUN	50.00	30.00E	B			7.54	1988	82.0	
B1B1180.0	1981	KRASNOYARSKI KRAY	SUN	SUN	60.00	90.00E	B			5.21	1988	93.2	
B1B1190.0	1981	KALUZHCKAYA OBLAST	SUN	SUN	54.00	35.00E	B			7.59	1988	71.3	
B1B1200.0	1981	SMOLENSKAYA OBLAST	SUN	SUN	55.00	32.00E	B			7.20	1988	89.3	
B1B1210.0	1981	GRODNOENKO, #502B SDR	BEL	BEL	50.50	4.21E	N/A			8.00	1989	26.8	PL
B2B0654.0	1983	IUZNA, OLESNG	CSK	CSK	50.10	13.20E	390	N/A		6.81	1988	59.8	
B3B0655.0	1983	LITOMERICE, ROUDNICE	CSK	CSK	50.30	14.20E	150	N/A		7.14	1988	62.8	
B3B0656.0	1983	KURIM TISHNOV	CSK	CSK	49.30	16.30E	400	N/A		5.51	1988	74.0	
B430095.0	1984	P.N.F.I.	ON	ON	46.01	77.25	160	S		7.08	1991	97.5	PL
B430096.0	1984	P.N.F.I.	ON	ON	46.01	77.25	160	S		7.36	1985	97.5	

SEED BANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG (°)	TYPE	ELEV (m)	CHL	1000 Sdut.	TEST	GERM	% REMARKS
B480766,0	1984	LONCH HAREE	50.0	SUN	57.35	5.10	250	5	7.49	1985		52.0	
B480767,0	1984	LOWER GLEN TILT	50.0	SUN	56.40	4.35	150	N/A	7.63	1991	80.0	PL	
B780774,0	1987	RINKISKIS, LITVA S.S.R.	50.0	SUN	55.48	25.35E	120	B	6.66	1989	8.5	PL	
B780775,0	1987	TRAKAI, LITVA S.S.R.	50.0	SUN	54.32	24.55E	160	B	6.64	1989	26.0		
B780776,0	1987	KAZLU-RUDA, LITVA S.S.R.	50.0	SUN	54.42	23.35E	70	B	6.35	1989	14.0		
B880700,0	1988	HALLESTAD DISTRICT	50.0	SWE	58.46	15.35E	85	B	4.01	1989	93.2	B(200--300) PL	
B880701,0	1987	RUMSALLA DISTRICT	50.0	SWE	57.41	15.35E	150	B	5.01	1989	91.5	PL	
9180001,0	1991	FUGIR SEED ORCHARD	50.0	RDM	45.52	23.23E	230	B	7.93				
SPECIES	36.350	PINUS SYLVESTRIS var. MONGOLICA											
	73593100,0	1923 HEILONGJIANG PROVINCE	CHN	47.00	127.00E	0	N/A	7.50	1991				
	8386670,0	1983 HUND-HUA-CHIANG	CHN	46.00	127.00E	700	N/A	7.17	1985	79.5			
	8480076,0	1984 JILIN PROVINCE	CHN	43.00	126.00E	N/A	N/A	6.31	1985	26.6			
	8481646,0	1984 BAIIYINNA,HEILONGJIANG	CHN	52.21	125.40E	N/A	N/A	5.19	1991	77.8			
SPECIES	36.370	PINUS SYLVESTRIS var. RIGENSIS											
	80001,0	1983 RIGA, LATVIA S.S.R.	SUN	56.53	24.08E	N/A	N/A	6.23	1991	81.2			
SPECIES	36.400	PINUS TABULAEFORMIS (Chinese Pine)											
	8380629,0	1983 WEINAN, SHANXI PROV.	CHN	35.00	109.00E	800	N/A	36.05	1985	32.0			
	8480074,0	1984 HUBEI PROVINCE	CHN	39.00	116.00E	N/A	N/A	32.92	1985	38.0			
SPECIES	36.600	PINUS THUNBERGII (Japanese black pine)											
	7407520,0	1974 ADMRI PREFECTURE	JPN	40.47	140.20E	60	N/A	11.24	1989	68.2	PL		
	7988039,0	1979 ISHIKAWA PREFECTURE	JPN	36.49	136.49E	5	N/A	17.65	1986	94.5	PL		
	8380073,0	1983 CH'ANG-WEI,SHANDONG PROV	CHN	36.00	120.00E	100	N/A	10.72	1991	77.3			
SPECIES	36.700	PINUS WALlichiana (Bhutan) Pine											
	B0002,0	1983 HIMALAYA											
	8380657,0	1983 HUTU RARA	NPL	29.32	82.05E	3010	N/A	42.12	1988	61.0			
	8380659,0	1983 SAGA MATHA, JUNBEST FOR,	NPL	27.34	86.34E	2760	N/A	40.92	1988	53.0			
SPECIES	36.750	PLATycladus ORIENTALIS											
	8330018,0	1983 FORT HILL	ON	CAN	43.02	79.17	200	B(4)	20.48	1986	53.5	PL	
SPECIES	37.200	PLATANUS OCCIDENTALIS (American plane (sycamore))											
	8330642,0	1983 NIAGARA FALLS TOWNSHIP	ON	CAN	43.03	79.08		B(10)	2.86	1986	19.0	PL	
SPECIES	38.530	POPULUS DELTOIDES var. OCCIDENTALIS (Plains cottonwood)											
	6881570,0	1968 BISMARCK	ND USA	46.48	100.43	N/A	0.96	1985	67.0				
	6881640,0	1968 BISMARCK	HD USA	46.48	100.43	N/A	0.87	1985	34.0				
SPECIES	38.600	POPULUS GRANDIDENTATA (large-tooth aspen)											
	7830330,0	1978 P.N.F.I.	ON CAN	46.01	77.25	150	N/A	0.05	1985	95.5			

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PU	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 Sdwt	YEAR TEST	GERM	% REMARKS
7B30540.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.09	1985	100.0	
7B30550.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.08	1985	96.5	
7B30560.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.08	1985	89.0	
7B30570.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.09	1985	96.0	
SPECIES	38,800	POPULUS TREMULOIDES (trembling aspen)										
7B30430.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.11	1985	61.0	
7B30440.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.12	1985	74.5	
7B30450.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.12	1985	73.0	
7B30460.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.07	1985	71.5	
7B30470.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.07	1985	56.0	
B630019.0	1986	THUNDER RAY	ON	CAN	48.28	89.09	5	0.08	1986		36.0	
SPECIES	39,100	PRUNUS AVIUM (mazzard)										
BBB0706.0	1988	TORPA DISTRICT	SWE		58.00	15,07E	130	B(3)	124.76			
SPECIES	39,600	PRUNUS PENSylvANICA (pin cherry)										
B430034.0	1984	PETAWANA	ON	CAN	45.54	77.15	150	S	34.32			
SPECIES	39,800	PRUNUS SEROTINA (black cherry)										
703240.0	1970	OTTAWA	ON	CAN	45.24	75.34	70	N/A	105.93	1986	11.0	
8336015.0	1983	FONTILL	ON	CAN	43.01	79.18	190	S	97.65			PL
843504R.0	1984	P.N.F.I.	ON	CAN	45.59	77.23	150	S	117.04	1986	17.0	
SPECIES	40,200	PSEUDOTSUGA MENZELII (douglas-fir)										
6470290.0	1964	QUESNEL	BC	CAN	53.14	122.30	820	B	9.50	1988	23.2	
6671200.0	1966	ELK VALLEY	BC	CAN	49.45	125.50	910	B	10.24	1989	4.0	
5722350.0	1967	FRANKLIN RIVER	BC	CAN	49.06	124.46	150		8.97	1986	64.0	
6702360.0	1967	PACWOOD	WA	USA	46.34	121.40	635	B	8.35	1989	0.2	
6921750.0	1969	HORSEFLY	BC	CAN	52.18	121.19	B20	B(15)	8.33	1986	40.0	
6981760.0	1969	EUGENE	OR	USA	44.01	123.23	210	B(16)	11.62	1986	30.0	
6981770.0	1969	HAPPY CAMP	CA	USA	41.57	123.30	975	B(15)	13.42	1989	41.2	
7125610.0	1971	HAT CREEK	BC	CAN	50.51	121.30	1000	B	12.01	1988	16.5	
7373390.0	1973	JOHNSON LAKE	BC	CAN	51.10	121.30	1070	B	11.42	1981	0.2	
7921820.0	1979	THADDEUS LAKE	BC	CAN	51.35	123.40	1130	B(10)	10.63	1991	42.5	
8370638.0	1983	CASSINY	BC	CAN	49.02	123.52	45	B(10)	9.46	1990	90.0	
SPECIES	40,250	PSEUDOTSUGA MENZELII var. GLAUCA (interior douglas-fir)										
6722340.0	1967	NELSON	BC	CAN	49.30	117.16	820	B	9.37	1986	4B.0	
6871090.0	1968	PINETAN	BC	CAN	50.45	119.55	840	B	10.48	1989	8.5	
6981780.0	1969	COALDALE	CD	USA	38.20	105.50	2300	B(50)	13.39	1989	47.2	
6981790.0	1969	CLEAR CREEK	NM	USA	36.03	106.50	2870	B*	11.87	1989	39.5	B(10-100)
7122040.0	1971	ADAMS LAKE	BC	CAN	51.26	119.28	530	B	8.69	1989	46.5	
8285430.0	1982	OTERO COUNTY	NM	USA	33.00	105.30	N/A		13.84	1989	79.5	
8480009.0	1984	CLEAR CREEK	HH	USA	35.30	106.00	N/A		12.97	1989	82.0	
SPECIES	40,500	PTFEA TRIFOLIATA (hop-tree)										

SEED BANK NUMBER	YEAR COL.	PROVENANCE	PV	CTRY	LOT	1000 ON	ELEV (m)	COLL TYPE	1000 Sdut	TEST	GERH	REMARKS
8310440,0	1983	FONTHILL	ON	CAN	43.02	79.17	190	B(3)	36.33	1985	51.0	QPC-RF
SPECIES	42,600	PHANNUIS FRANGULÀ (glossy buckthorn)	SWE	SWE	57.37	15.24	165	R(3)	10.57			
SPECIES	43,800	ROBINIA PSEUDACERUS (black locust)	USA					N/A	20.29	1984	76.0	
BB0B0200,0	1980	TORONTO	ON	CAN	43.41	79.23	122	R(3)	23.02	1984	55.0	
BB330075,0	1983	TORONTO	ON	CAN	44.03	78.26	200	S	22.12	1986	98.5	PL
BB431615,0	1981	ELIZABETHVILLE	ON	CAN	44.03	78.26	200	S	16.30	1986	83.5	PL
BB431616,0	1984	ELIZABETHVILLE	ON	CAN								
SPECIES	43,950	SANTIN CHAMENSTO										
BB480093,0	1984	INNER MONGOLIA PROVINCE	CHN		40.00	111.00E		N/A	23.74	1985	0.1	
SPECIES	44,550	SARRACENIA NIGRA (European elder)	SWE									
BBB00705,0	1980	HORNBLADEN DISTRICT	SWE		57.16	15.55E	90	R(10)	4.22			
SPECIES	44,600	SARRACENIA RACEMOSA (European red elder)	SWE									
BBB00703,0	1980	LÖNNARYD DISTRICT	SWE		57.53	14.45E	240	B(20)	2.12			
SPECIES	44,840	SCHIURUS PATAGONICUS										
BB7801A7,0	1987	EL. BOLSON, RIO NEGRO	ARG		41.50R	71.34	450	N/A	22.09			
SPECIES	44,870	SENOIA INDIANA DIGANTUM (giant sequoia)										
BB101310,0	1981	CALIFORNIA	CA	USA				N/A	5.90	1991	25.2	
SPECIES	44,920	SORBUS AMERICANA (American mountain ash)										
BB430060,0	1984	INTERSECT'N HLY 127 & 60	ON	CAN	45.29	78.11	400	R(3)	1.69	1984	21.5	
SPECIES	44,930	SORBUS AUCUPARIA (European mountain ash)										
BB330031,0	1983	TORONTO	ON	CAN	43.43	79.23	150	S	3.13	1984	34.0	
SPECIES	46,200	THUJA OCCIDENTALIS (eastern white cedar)										
6030510,0	1960	C.F.B. - CENTRE LAKE	ON	CAN	45.55	77.28	180	N/A	1.31	1991	0.1	
64430360,0	1964	P.H.F.I.	ON	CAN	45.57	77.25		N/A	1.29	1991	0.1	
81130230,0	1981	LAKE MORE	ON	CAN	45.37	77.07	175	R(5)	0.87	1993	13.0	
82233290,0	1982	GOLDEN LAKE	ON	CAN	45.35	77.14	R		1.16	1991	0.1	
85530191,0	1985	C.DYNE	ON	CAN	44.49	77.11	R(3)		1.35	1991	24.2	
BB930141,0	1989	P.N.F.I.	ON	CAN	46.00	77.26			R.42	1990	4.5	
BB930142,0	1989	P.N.F.I.	ON	CAN	46.00	77.26			1.07	1990	46.0	
BB930143,0	1989	P.N.F.I.	ON	CAN	46.00	77.26			1.12	1990	48.0	
BB930546,0	1989	P.N.F.I.	ON	CAN	46.00	77.26			1.09	1990	12.0	

SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PL	CTRY	LAT	LONG	ELEV	COLL (#)	TYPE	1000 Sdwt.	YEAR TEST	% DETH.	REMARKS
9130047.0	1991	PETAWANA	ON	CAN	45.54	77.18	S	0.65					
9130049.0	1991	PETAWANA	ON	CAN	45.54	77.16	B(3)	1.14					
9130050.0	1991	LAKE DORE	ON	CAN	45.37	77.06	S	1.26					
9130051.0	1991	LAKE DORE	ON	CAN	45.36	77.06	S	1.27					
9130052.0	1991	LAKE DORE	ON	CAN	45.37	77.13	S	1.76					
9130053.0	1991	LA PASSE	ON	CAN	45.49	76.46	B(15)	1.26					
9130054.0	1991	LA PASSE	ON	CAN	45.59	76.46	S	1.02					

SPECIES 46,400 *THUJA PLICATA* (western red cedar)

72272310.0	1977	GOWICHAN LAKE	BC	CAN	48.50	124.00	75	B	1.37	1991	0.1	
7473130.0	1974	SHUSWAP LAKE	BC	CAN	50.53	119.22	400	B	1.11	1991	0.1	
8370633.0	1983	LANTVILLE	BC	CAN	49.14	124.00	90	B(6)	0.88	1989	0.8	
8370634.0	1983	YELLOW POINT	BC	CAN	49.03	123.48	61	B(15)	0.95	1989	0.1	
8871106.0	1988	YELLOW POINT	BC	CAN	49.03	123.49	N/A	0.99	1990	38.5		

SPECIES 47,100 *TILIA AMERICANA* (basswood American Linden)

6430380.0	1964	LAKE DORE	ON	CAN	45.38	77.04	N/A		1.06.72				
7031680.0	1970	CENTRE LAKE	ON	CAN	45.57	77.30	120	S	1.57.83				
8530066.0	1985	PEMBROKE	ON	CAN	45.49	77.07	110	B(5)	1.39.09	1986	5.0		
8930018.0	1989	P.N.F.I.	ON	CAN	46.00	77.25	S	1.34.77					
8930019.0	1989	P.N.F.I.	ON	CAN	46.00	77.25	S	1.48.95					

SPECIES 47,400 *TILIA X EUCHLORA* (Crimea linden)

8330067.0	1983	TORONTO	ON	CAN	43.42	79.23	150	S					PL
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SPECIES 48,100 *TSUGA CANADENSIS* (eastern hemlock)

6930330.0	1969	KIOSK	ON	CAN	46.02	78.44	370	S	2.11	1991	0.1		
6930410.0	1969	KIOSK	ON	CAN	46.02	78.44	370	S	2.94	1991	0.1		
8430023.0	1984	ALGONQUIN PARK	ON	CAN	45.17	78.11	490	S	2.78	1984	90.5		
8430024.0	1984	ALGONQUIN PARK	ON	CAN	45.17	78.11	490	S	2.80	1984	0.2.0		
8430025.0	1984	DENBIGH	ON	CAN	45.09	77.10	300	B(3)	3.13	1991	11.0		
893001.0	1989	P.N.F.I.	ON	CAN	46.00	77.27	S	3.36	1989	39.8			
8930042.0	1989	P.N.F.I.	ON	CAN	46.00	77.27	S	2.79	1989	63.8			
8930043.0	1989	P.N.F.I.	ON	CAN	46.00	77.27	S	2.81	1989	46.0			
8930044.0	1989	P.N.F.I.	ON	CAN	46.00	77.27	S	2.50	1989	34.0			
8930045.0	1989	P.N.F.I.	ON	CAN	46.00	77.27	S	3.75	1989	66.0			

SPECIES 48,400 *TSUGA HETEROPHYLLA* (western hemlock)

72272030.0	1972	QUEEN CHARLOTTE ISLANDS	BC	CAN	53.35	132.20	75	B	1.60	1989	2.2		
72272260.0	1972	SDUNE #2, VANCOUVER IS.	BC	CAN	48.22	123.44	4	B	2.37	1989	0.2		
8871108.0	1988	NORTHWEST BAY	BC	CAN	49.13	124.22	600	B(6)	1.72	1990	75.8		
8871109.0	1988	MATTHEW LAKE	BC	CAN	49.28	124.54	900	N/A	1.99	1990	17.0		

SPECIES 48,500 *TSUGA MERTENSIANA* (mountain hemlock)

BREEDBANK NUMBER	YEAR COLL.	PROVENANCE	PU	CTRY	LAT	LONG (°)	ELEV (m)	CHL. TYPE	1000 Sdwt.	TEST	GERH	REMARKS
9970433.0	1981	VALENTINE MOUNTAIN	BC	CAN	48,32	173,54	890	B(12)	7.11	1990	74.0	
SPECIES	49.100	MUS AMERICANA (white American) #16]										
	7830520.0	1978 PEMBROKE	ON	CAN	45,48	77,08	150	S	6.83	1984	38.0	P1
	8430032.0	1981 PEMBROKE	ON	CAN	45,48	77,08	150	S	4.17	1990	0.1	PL
	8430033.0	1984 PEMBROKE	ON	CAN	45,48	77,08	150	S	5.07	1984	33.0	P1
	8730163.0	1987 PEMBROKE	ON	CAN	45,48	77,08	150	S	4.62	1987	33.2	PL
	8730164.0	1987 PEMBROKE	ON	CAN	45,48	77,08	150	S	4.35	1987	28.0	P1
	8730175.0	1987 PEMBROKE	ON	CAN	45,48	77,08	150	S(2)	5.56	1987	47.8	PL
SPECIES	49.115	MUS GLABRA (Scotch eel)										
	8580008.0	1985 HELSINKI	FIN	60,14	25,00E		R(25)		10.35	1985	29.0	
SPECIES	19.120	MUS LAEVIS (EUROPEAN white eel)										
	8580009.0	1985 HELSINKI	FIN	60,14	25,00E		R(6)		6.37	1985	40.0	
SPECIES	50.300	VIRGINIA OILYUS (EUROPEAN CRANBERRY)										
	8880702.0	1988 INGATOP DISTRICT	FWE	57,38	15,27E	220	R(5)		21.58			

**APPENDIX A/**  
**ANNEXE A**  
Key for country codes<sup>1</sup>  
Codes de pays<sup>2</sup>

Country Code/ Code de pays	Meaning/ Signification
ARG	Argentina/Argentine
AUT	Austria/Autriche
BEL	Belgium/Belgique
BLG	Bulgaria/Bulgarie
CAN	Canada
CHN	China/Chine
COL	Columbia/Colombie
CSK	Czechoslovakia/Tchécoslovaquie
CUB	Cuba
DEU	Germany/Allemagne
DNK	Denmark/Danemark
FIN	Finland/Finlande
FRA	France
GTM	Guatemala
HND	Honduras
ITA	Italy/Italie
JPN	Japan/Japon
MEX	Mexico/Mexique
NOR	Norway/Norvège
NPL	Nepal/Népal
NZL	New Zealand/Nouvelle-Zélande
PAK	Pakistan
POL	Poland/Pologne
ROM	Romania/Roumanie
SCO	Scotland/Écosse
SUN	USSR/URSS
SWE	Sweden/Suède
THA	Thailand/Thaïlande
TUR	Turkey/Turquie
USA	United States/États-Unis
YUG	Yugoslavia/Yougoslavie

<sup>1</sup>From International Organization for Standardization (1981).

<sup>2</sup>De l'Organisation internationale de normalisation (1981).

## APPENDIX B/ANNEXE B

Codes for Canadian provinces/Codes de provinces canadiennes

<b>Province code/ Code de province</b>	<b>Meaning/ Signification</b>
AB	Alberta
BC	British Columbia/Colombie-Britannique
MB	Manitoba
NB	New Brunswick/Nouveau-Brunswick
NF	Newfoundland/Terre-Neuve
NS	Nova Scotia/Nouvelle-Écosse
ON	Ontario
PE	Prince Edward Island/Île-du-Prince-Édouard
PQ	Québec
SK	Saskatchewan
YT	Yukon Territory/Territoire du Yukon

Codes for states of the USA/Codes d'États de USA

<b>State code/ Code d'État</b>	<b>Meaning/ Signification</b>
AK	Alaska
AZ	Arizona
CA	California/Californie
CO	Colorado
GA	Georgia
ID	Idaho
ME	Maine
MI	Michigan
MT	Montana
NC	North Carolina/Caroline du Nord
ND	North Dakota/Dakota du Nord
NH	New Hampshire
NM	New Mexico/Nouveau-Mexique
NY	New York
OR	Oregon
WA	Washington
WI	Wisconsin