

Ontario Tree Seed Plant

Seed Catalogue 2002/2003



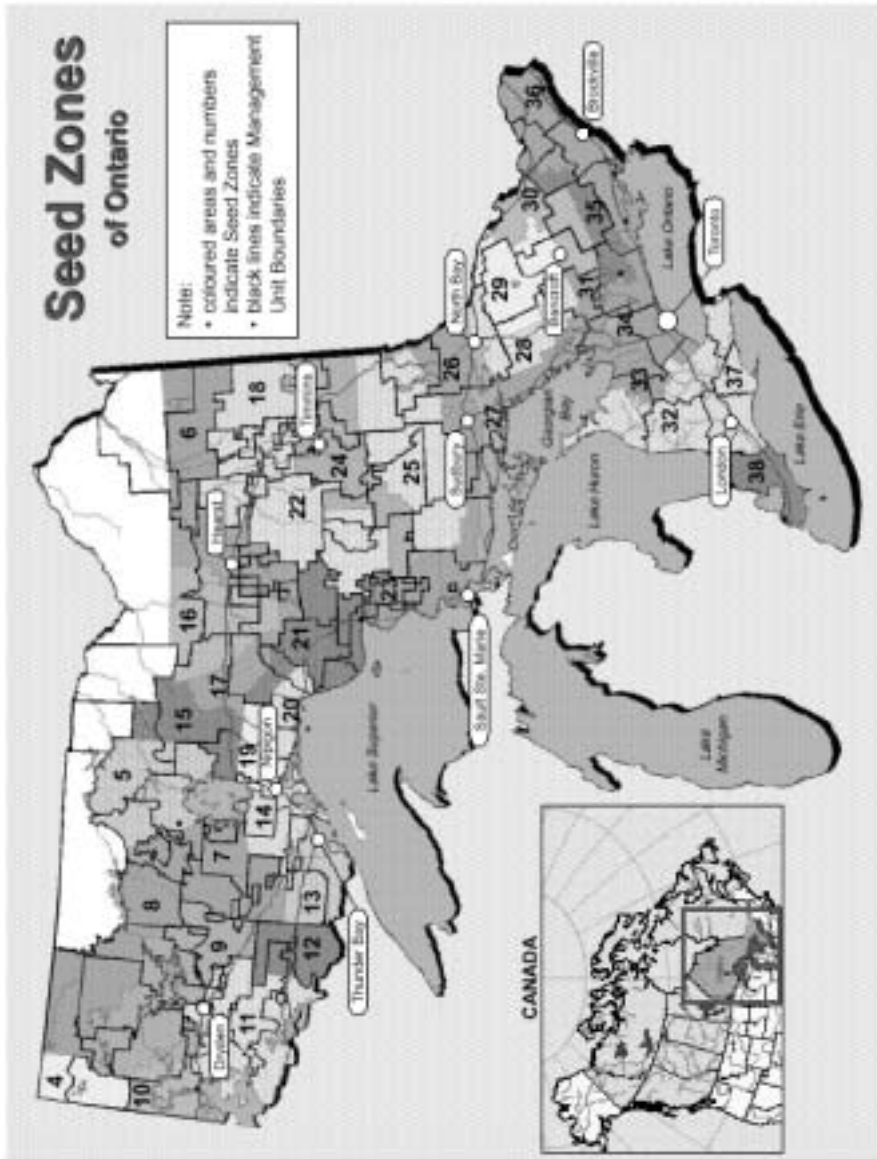
Ontario Tree Seed Plant

www.ontariotreeseed.com

P.O. Box 2028
141 King Street
Angus ON L0M 1B0

1-877-861-8881
(705) 424-5311
Fax (705) 424-9282





Seed Pre-treatment

Many seeds are dormant, meaning the viable seed is conditioned by nature to prevent germination. By simulating key conditions of the natural environment that these seeds would be in, dormancy can be broken and the seeds can be induced to germinate. This is called stratification.

Stratification is a pre-germination treatment used to break dormancy in seeds and to promote rapid, uniform germination. This is accomplished by exposing seed for a specified time to moisture at near freezing temperatures, sometimes with preceding exposure to moisture at room temperature.

Dormancy is a state that prevents germination under environmental conditions favourable for growth.

A manual entitled *Guidelines for Seed Pre-treatment* is available for a more in-depth explanation of seed pre-treatment. To purchase one for \$20.00, contact us or fill out the order form on page 5.

Suggested Stratification Periods

Species	Days Required	
	warm 30°C day 20°C night	cold 2-4°C
Eastern White Pine		60
Red Pine		14-21
Jack Pine		14-21
Austrian Pine		14-21
Mugho Pine		14-21
Scots Pine		14-21
White Spruce		21-30
Black Spruce		14-21
Red Spruce		21-30
Norway Spruce		21-30
Colorado Blue Spruce		21-30
Eastern Hemlock		90-120
Eastern White Cedar		21-30
Tamarack		21-60
European Larch		21-30
Japanese Larch		21-30
Yellow Birch		21-30
Red Oak		30-45
White Ash	30	60
Green Ash	60	210
Black Walnut		90-120
Tulip Tree		60-90, 140-168
Black Locust	soak 24 hr	30
Red-Osier Dogwood		90

Species	Days Required	
	warm 30°C day 20°C night	cold 2-4°C
Russian Olive	soak 24-48 hr	90
Autumn Olive		90
Nannyberry	158	63
American Highbush Cranberry	67	35
Fraser Fir		21-30
Hard/sugar Maple		45-60
White Birch		21-30
Buttonbush		21-30
Silky/swamp Dogwood		90-120
Burning Bush	60-90	60-120
Spindle Tree		90-100
Honey Locust	soak 24 hr	21-30
Butternut		30-90
Honeysuckle		30-60
Black cherry		90
Choke Cherry		120-160
Blackthorn		170
Black Chokeberry		90-120
Black Elderberry	60	90-150
Showy Mountain Ash		60-90
American Mountain Ash		60-90
Japanese Lilac	30	90
Burr Oak		30-60

Ontario Tree Seed Plant

Introduction



The Ontario Tree Seed Plant was established in 1923 to process tree cones and supply seed for the province's reforestation program. Our goal is to provide top quality seed to our customers. Knowledgeable and enthusiastic staff at the seed plant operate state-of-the-art equipment to extract the highest quality seeds.

Suppliers Certificates are available on request and can be sent with every seed order. They consist of a written statement and a graph that shows the seed lot's germination rate. Germination is determined by the percentage of the seed lot that will produce normal seedlings in the time specified by the I.S.T.A. (International Seed Testing Association). Seeds are stored in our freezers at a temperature of -18° C or 0° F. Seed viability is re-tested if seed is stored for 3 or more years.

We have a large variety of coniferous, deciduous and shrub seeds. Special seed lots are available upon request.

Please review our terms and conditions for ordering seed and cones, and for accessing our seed extraction services. Feel free to contact our office with any questions or comments.



Terms and Conditions of Sales

Price

Our prices are quoted in Canadian dollars and are based on the present market conditions. These prices are subject to change without notice. All Canadian and Ontario taxes apply unless the authorized documentation is provided for exemption.

Minimum Orders

Our minimum seed order charge is \$50.00: the order may include a variety of species. Trial packets of approximately 100 seeds are available for \$5.00 each. The minimum charge does not apply to the trial packets.

Cancellations/Returns

Any order cancellations or changes must be made in writing. Once an order is accepted, cancellations cannot be made without our consent. Special orders cannot be cancelled by the customer. Seeds cannot normally be returned without the express written permission of the Ontario Tree Seed Plant. In all cases, goods cannot be returned after they have been accepted, cleaned, processed, improperly stored, planted, or otherwise treated, modified, or used in any way.

Guarantee

We guarantee all seed to be correctly labelled and shipped in the condition described by the statistical data associated with that seed. Every effort is made to provide the highest quality seed available; however, we are unable to offer warranty, implied or expressed, with respect to seed viability.

Contingencies

We reserve the right to allocate, distribute or cancel any order, in whole or in part, because of: strikes, labour shortages, fire, flood, drought, disease, casualty, errors in count, spoilage, or other circumstances beyond our control.

Taxes

Any taxes arising from the purchase, use, or resale of the goods, such as import duty, sales tax, or any other tax, is the responsibility of the buyer.



How far
should
the seed
fall from
the tree?

Choose
**Ontario's
Natural Selections**
because Seed Source matters

Ontario's native woody plant species have evolved over millennia to be specially adapted to local climate and sites — a process of Natural Selection. This means that Seed Source Matters — to the success of any planting project! The Forest Gene Conservation Association's new seed and stock certification program will certify the source of native woody plant seed and stock to help you choose the most appropriate material. Choose Ontario's Natural Selections.

This program is supported by the Ontario Tree Seed Plant
For more information contact the Forest Gene Conservation Association
c/o OMNR, 4th Floor, South Tower, 300 Water St. Peterborough, ON K9J 8M5
T: (705) 755-3284 F: (705) 755-3292 barb.boysen@mnr.gov.on.ca

Judie Shore

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 38				
Cornus	amomum (silky/swamp dogwood)	\$2.67	\$20.00	\$44.00
	stolonifera (red osier dogwood)	\$3.42	\$45.00	\$99.00
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
Pinus	nigra (Austrian pine)	\$7.21	\$107.32	\$236.10
	stobus (eastern white pine)	\$4.84	\$96.85	\$213.07
Rhus	typhina (staghorn sumac)	\$15.03	\$50.00	\$110.00
Robinia	pseudoacacia (black locust)	\$2.46	\$52.00	\$114.40
Rosa	multiflora (multiflora rose)	\$1.61	\$60.00	\$132.00
Sambucus	canadensis (black elderberry)	\$2.76	\$135.00	\$297.00
Sorbus	americana (Am. mountain ash)	\$5.26	\$400.00	\$880.00
Viburnum	lentago (nannyberry)	\$14.26	\$54.50	\$119.90
	trilobum (Am. highbush cranberry)	\$8.61	\$66.57	\$146.45

Payment & Shipping Terms

Accounts may be paid by cheque, money order, or major credit card. Cheques should be payable to the Minister of Finance. Commercial drafts from established firms should be drawn on a Canadian bank. Overdue accounts will be charged interest at the rate of 5%, subject to change based on the fluctuating economy. Buyer assumes ownership and responsibility for goods at the time of shipment. Please allow up to five (5) weeks for processing an order. An 8% Ontario sales tax and a 7% Goods and Services Tax will be charged unless customers file an exemption certificate or include a vendor permit. C.O.D. is not acceptable.

All seed is shipped at the buyer's risk and expense from the Ontario Tree Seed Plant in Angus. We charge for packing materials at cost. We will ship by Purolator Courier unless other means have been agreed upon.

Receiving & Acceptance

Seed is perishable. All shipments should be immediately and carefully unpacked and inspected on arrival and then placed in proper storage, (conditions that minimize changes in seed quality) as specified in the package. Any problems with the condition of the seed, or quality or quantity of stock received should be brought to our attention immediately. Quantity is proved by shipping documents.

Claims

Claims for any cause must be made in writing within five (5) to seven (7) days of the shipment date, whichever period of time is expressly agreed to be reasonable. If the buyer does not give such notice, the buyer agrees to have unconditionally accepted the goods. The Ontario Tree Seed Plant will not consider any claim after the seed has been cleaned, processed, improperly stored, planted, or otherwise treated, modified, or used in any way. Claims for losses while goods are in transit must be filed directly with the carrier.

These terms and conditions of sale by the Ontario Tree Seed Plant may not be changed or amended except by written agreement signed by an officer of the Ontario Tree Seed Plant. By acceptance of the seed, the buyer acknowledges that the limitations and disclaimers described herein are the conditions of sale and that they constitute the entire agreement between buyer and seller.

Import/Export Terms

Foreign shipments often require special packing, handling and document preparation.

Import Restrictions

The buyer must first consult with the authorities of the importing country and then advise the Ontario Tree Seed Plant of all applicable importation restrictions, pre-export inspections, fungicidal treatments or fumigation required, and special documentation needed to import the seeds into their country. The Seed Plant will endeavor to comply with customer's requests for assistance in meeting the regulations of the importing country. However, the responsibility in all matters related to such regulations is ultimately with the buyer and we assume absolutely no liability whatsoever.

Import Permits

Many countries require an import permit to import seeds or other living plant products. Please FAX us a copy of your permit at least two (2) weeks prior to the expected shipping date. If we do not receive your import permit prior to shipment, we will assume none is required.

Phytosanitary Certification

We will provide a Phytosanitary Certificate (PC) issued by the proper authority in Canada. The buyer will be charged for our costs to obtain the inspection and issuance of the PC. The Seed Plant accepts no responsibility or liability in connection with the issuing authority's errors or omissions in the inspection or preparation of the PC.

Export Documents

The Phytosanitary Certificate, Certificate of Origin, and ISTA Certificate may require a fee. Call the Ontario Tree Seed Plant for current prices.

Export Packing

We will use the materials and method of packing we judge best, unless given specific instructions by the buyer. We normally pack in cardboard boxes suitable for long distance travel. However, in spite of all the precautions, shipments may sustain damage in transit and buyers are urged to inspect shipments immediately.

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 37				
Alnus	glutinosa (black European alder)	\$0.15	\$42.90	\$94.40
Caragana	arborescens (Siberian Peashrub)	\$17.97	\$146.90	\$323.18
Cercis	canadensis (redbud)	\$1.52	\$20.00	\$44.00
Cornus	amomum (silky/swamp dogwood)	\$2.67	\$20.00	\$44.00
	stolonifera (red osier dogwood)	\$3.42	\$45.00	\$99.00
Corylus	americana (American hazelnut)	\$48.06	\$16.20	\$35.64
Elaeagnus	angustifolia (Russian olive)	\$4.07	\$13.55	\$29.81
	umbellata (autumn olive)	\$7.52	\$103.43	\$227.55
Gleditsia	tricanthos (honey locust)	\$21.61	\$22.00	\$48.40
Larix	decidua (European larch)	\$9.69	\$380.00	\$836.00
	leptolepis (Japanese larch)	\$2.33	\$150.00	\$330.00
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	aurea (golden Norway spruce)	\$1.04	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
Pinus	nigra (Austrian pine)	\$7.21	\$107.32	\$236.10
	resinosa (red pine)	\$2.44	\$111.57	\$245.45
	strobus (eastern white pine)	\$4.84	\$96.85	\$213.07
	sylvestris (scots pine)	\$2.18	\$116.64	\$256.61
Prunus	virginiana (choke cherry)	\$10.93	\$20.00	\$44.00
Rhus	typhina (staghorn sumac)	\$15.03	\$50.00	\$110.00
Robinia	pseudoacacia (black locust)	\$2.46	\$52.00	\$114.40
Rosa	multiflora (multiflora rose)	\$1.61	\$60.00	\$132.00
Sambucus	canadensis (black elderberry)	\$2.76	\$135.00	\$297.00
Sassafras	albidum (sassafras)	\$88.23	\$160.00	\$352.00
Thuja	occidentalis (eastern white cedar)	\$0.50	\$117.51	\$258.52
Viburnum	lentago (nannyberry)	\$14.26	\$54.50	\$119.90
	opulus (Eur. Highbush cranberry)	\$5.18	\$40.00	\$88.00
	trilobum (Am. highbush cranberry)	\$8.61	\$66.57	\$146.45

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 36				
Cornus	stolonifera (red osier dogwood)	\$3.42	\$45.00	\$99.00
Elaeagnus	angustifolia (Russian olive)	\$4.07	\$13.55	\$29.81
Gleditsia	tricanthos (honey locust)	\$21.61	\$11.50	\$25.30
Larix	decidua (European larch)	\$9.69	\$380.00	\$836.00
	laricina (tamarack)	\$4.68	\$807.65	\$1,776.83
	leptolepis (Japanese larch)	\$2.33	\$150.00	\$330.00
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
	mariana (black spruce)	\$0.34	\$137.76	\$303.07
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
	mugo (mugho pine)	\$2.71	\$133.00	\$292.60
	nigra (Austrian pine)	\$7.21	\$107.32	\$236.10
	resinosa (red pine)	\$2.44	\$111.57	\$245.45
	strobus (eastern white pine)	\$4.84	\$96.85	\$213.07
	sylvestris (scots pine)	\$2.18	\$116.64	\$256.61
Prunus	virginiana (choke cherry)	\$10.93	\$20.00	\$44.00
Rhus	typhina (staghorn sumac)	\$15.03	\$50.00	\$110.00
Robinia	pseudoacacia (black locust)	\$2.46	\$52.00	\$114.40
Sambucus	canadensis (black elderberry)	\$2.76	\$135.00	\$297.00
	pubens (red elderberry)	\$1.23	\$100.00	\$220.00
Tsuga	canadensis (Eastern hemlock)	\$4.61	\$350.00	\$770.00

Insurance

We can arrange insurance for loss or damage in transit at the buyers request. Insurance costs and claims are the responsibility of the buyer. If the goods are not insured, they travel at the risk of the buyer.

Customs & Quarantine Clearance

It is the responsibility of the buyer to handle the clearance of the goods through their country's customs and agricultural quarantine or inspection service. The Ontario Tree Seed Plant cannot assist or participate in such matters and therefore accepts no responsibility or liability in connection therewith.

Payment & Shipping

These terms are listed on page 3.

Seed Technology Information

Booklets presently available:

A Seed Manual for Ontario \$24.95 Can. +Tax

Guidelines for Seed Pretreatment \$20.00 Can. +Tax

The Ontario Tree Seed Plant also offers fact sheets on the handling/collecting of various species; they are available upon request. For more information on the fact sheets, contact us.

Ontario Tree Seed Plant Manual Order Form

P.O. Box 2028, 141 King Street, Angus, ON Canada L0M 1B0

Tel. (705) 424-5311 Fax (705) 424-9282

Book Title	Price	Quantity	Total
A Seed Manual for Ontario: Guidelines for Tree Seed Crop Forecasting and Collecting	\$ 24.95		
Guidelines for Seed Pretreatment	\$ 20.00		

	Subtotal	
	Shipping and Handling \$3 per book	
	P.S.T. 8%	
	G.S.T. 7%	
	Total	

**Please enclose total amount with the order.
We accept a money order, VISA, or cheque
made payable to Minister of Finance.**

Complete the reverse.

Seed Zone Definition

Delineation of Seed Zones

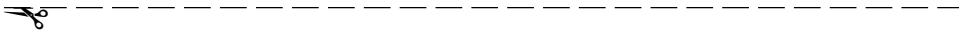
The seed zones were developed to ensure that the variation of climatic parameters (e.g. growing season length) within each zone corresponds with the adaptive variation exhibited by major commercial tree species in the province. Seed zones were derived using the Ontario Climate Model, which helped to balance climatic variability and risk within each zone. The seed zones were then made “operational” by drawing boundaries to coincide with nearby geographic or administrative boundaries.

~ Dr. Dennis Joyce and Robert G. White

Ontario Climate Model

The Ontario Climate Model uses specialized Geographic Information System (GIS) software and expertise developed by the Australian National University. The model couples climatic data from 400 weather stations across Ontario with a Digital Elevation Model (DEM) to generate and map climatic surfaces for parameters such as precipitation during the growing season and growing season length. Overlays of these surfaces permitted the development of homogeneous climate zones for areas of the province where the climatic regime is more similar than surrounding areas.

~ Dr. Dennis Joyce and Robert G. White



Please mail to:

Name _____

Address -
Number and Street _____

Apt. No. _____

City _____

Prov./State _____

Postal/Zip Code _____

Visa Mastercard # _____

Expiry

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Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 34 continued				
Syringa	reticulata (Japanese lilac)	\$5.91	\$79.00	\$173.80
Taxus	cuspidata (Japanese yew)	\$10.91	\$91.00	\$200.20
Tsuga	canadensis (eastern hemlock)	\$4.61	\$350.00	\$770.00
Viburnum	lentago (nannyberry)	\$14.26	\$54.50	\$119.89
	trilobum (Am. highbush cranberry)	\$8.61	\$66.57	\$146.56
Seed Zone 35				
Cornus	stolonifera (red osier dogwood)	\$3.42	\$45.00	\$99.00
Larix	decidua (European larch)	\$9.69	\$380.00	\$836.00
	leptolepis (Japanese larch)	\$2.33	\$150.00	\$330.00
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
	rubens (red spruce)	\$1.37	\$200.00	\$440.00
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
	nigra (Austrian pine)	\$7.21	\$107.32	\$236.10
	resinosa (red pine)	\$2.44	\$111.57	\$245.46
	strobus (eastern white pine)	\$4.84	\$96.85	\$213.07
Robinia	pseudoacacia (black locust)	\$2.46	\$52.00	\$114.40
Sambucus	canadensis (black elderberry)	\$2.76	\$135.00	\$297.00

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 34				
Alnus	glutinosa (black Eur. alder)	\$0.15	\$42.90	\$94.40
Caragana	arborescens (Siberian Peashrub)	\$17.97	\$146.90	\$323.18
Cephalanthus	occidentalis (buttonbush)	\$0.41	\$27.00	\$59.40
Cladastis	lutea (yellowwood)	\$1.52	\$20.00	\$44.00
Cornus	amomum (silky/swamp dogwood)	\$2.67	\$20.00	\$44.00
	drummondii (roughleaf dogwood)	\$196.43	\$35.00	\$77.00
Elaeagnus	angustifolia (Russian olive)	\$4.07	\$13.55	\$29.81
Euonymus	alatus (winged euonymus)	\$7.73	\$66.60	\$146.52
	europaeus (Eur. spindle tree)	\$24.59	\$30.00	\$66.00
Gleditsia	triacanthos (honey locust)	\$21.61	\$22.00	\$48.40
Gymnocladus	dioicus (Kentucky coffee tree)	\$54.87	\$11.97	\$26.34
Ilex	verticillata (common winterberry)	\$3.19	\$44.00	\$96.80
Larix	decidua (European larch)	\$9.69	\$380.00	\$836.00
	leptolepis (Japanese larch)	\$2.33	\$150.00	\$330.00
Lonicera	tatarica (honeysuckle)	\$0.64	\$75.00	\$165.00
Picea	abies (Norway Spruce)	\$1.77	\$80.00	\$176.00
	glauca (White Spruce)	\$0.89	\$159.00	\$349.80
Pinus	mugo (mugho pine)	\$2.71	\$133.00	\$292.60
	nigra (Austrian pine)	\$7.21	\$107.76	\$236.10
	resinosa (red pine)	\$2.44	\$111.57	\$245.45
	strobus (eastern white pine)	\$4.84	\$96.85	\$213.07
	sylvestris (scots pine)	\$2.18	\$116.64	\$256.61
Prunus	spinosa (blackthorn)	\$15.71	\$25.00	\$55.00
	virginiana (choke cherry)	\$10.93	\$20.00	\$44.00
Rhus	typhina (staghorn sumac)	\$15.03	\$50.00	\$110.00
Robinia	pseudoacacia (black locust)	\$2.46	\$52.00	\$114.40
Rubus	occidentalis (black cap raspberry)	\$0.47	\$67.84	\$149.25
Sambucus	canadensis (black elderberry)	\$2.76	\$135.00	\$297.00
Sorbus	decora (showy mountain ash)	\$3.66	\$355.00	\$781.00

1. Seed Services

Cone and Seed Extraction and Processing based on the level of processing required:

Level of Cleaning	\$100.00 Min. Charge	HL	Price/HL/Seedlot
Basic Level			
Jack Pine		1-50	\$40.00
		51-100	\$32.00
		101-250	\$28.00
		251-1000	\$25.00
Standard Level			
Black Spruce, White Pine, All Larch		1-50	\$55.00
		51-100	\$50.00
		101-250	\$48.00
		251-1000	\$45.00
Standard Level			
All other conifer species		1-50	\$45.00
		51-100	\$37.00
		101-250	\$33.00
		251-1000	\$30.00

2. Seed Cleaning and Testing

Rates apply to seed that has already been extracted.

Description	Prices
Enhanced Cleaning	
Guaranteed 99.5% purity in Spruce and most Pines. Other species to be negotiated.	\$30.00/kg & \$75.00/seedlot
Standard Cleaning	
This process would be used when the seed has been <i>base level</i> processed and placed in storage	\$25.00/kg \$100.00 Min. Charge
Maceration	\$60.00/HL \$120.00 Min. Charge
Seed Stratification	\$30.00/seedlot
Seed Returns	\$150.00/seedlot & \$16.00/kg
Seed Sizing	\$20.00/kg \$20.00 Min. Charge
Long Term Storage Fee	\$20.00/seedlot/year
Testing	
Germination Test	\$50.00/Test
Retest	\$35.00/Test

Shipping costs will be at the customers expense. Schedule of fees may be set annually and approved by the Director of Forest Management Branch.

Prices in effect as of April 1, 2002.

3. Open Extracted Cones

Please call for availability and size of cones that are in stock.

Bag size is approximately 2.5 bushels or 60 litres.

Species	Cost/Bag
White pine	\$ 12.00
Red pine	\$ 12.00
Jack pine	\$ 10.00
Scots pine	\$ 12.00
Mugho pine	\$ 12.00
Austrian pine	\$ 15.00
White spruce	\$ 12.00
Black spruce	\$ 7.50
Red spruce	\$ 12.00
Norway spruce	\$ 12.00
Colorado blue spruce	\$ 12.00
Hemlock	\$ 15.00
Northern white cedar	\$ 15.00
American Larch (Tamarack)	\$ 15.00
European larch	\$ 15.00
Japanese larch	\$ 15.00

Prices subject to change.

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 32				
Cornus	stolonifera (red osier dogwood)	\$3.42	\$45.00	\$99.00
Larix	decidua (European larch)	\$9.69	\$380.00	\$836.00
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
Pinus	resinosa (red pine)	\$2.44	\$111.57	\$245.45
Robinia	pseudoacacia (black locust)	\$2.46	\$52.00	\$114.40
Sambucus	canadensis (black elderberry)	\$2.76	\$135.00	\$297.00
Thuja	occidentalis (eastern white cedar)	\$0.50	\$117.51	\$258.52
Viburnum	lentago (nannyberry)	\$14.26	\$54.50	\$119.90
	trilobum (Am. highbush cranberry)	\$8.61	\$66.57	\$146.45
Seed Zone 33				
Cornus	stolonifera (red osier dogwood)	\$3.42	\$45.00	\$99.00
Picea	glauca (white spruce)	\$0.89	\$159.00	\$349.80

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 29				
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$249.80
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
	resinosa (red pine)	\$2.44	\$111.57	\$245.45

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 30				
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 31				
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
Viburnum	trilobum (Am. highbush cranberry)	\$8.61	\$66.57	\$146.45

4. Seed Pricing

Species available upon request and availability.

Please have your species request completed no later than the end of the month indicated.

Please call for a species request if it is not listed.

Prices are subject to change without notice.

This listing reflects our inventory as of June 1, 2002. During the fall of 2002 our collections may increase the species available in each seed zone. Please contact us for current availability.

Species		Price/1000	Price/Lb	Price/Kg	Ripening Season	Order Date
Acer	rubrum (red maple)	\$2.07	\$24.00	\$52.80	spring	February
	saccharinum (silver maple)	\$17.60	\$18.00	\$39.60	spring	February
	saccharum (hard/sugar maple)	\$5.83	\$15.00	\$33.00	fall	July
Aesculus	hippocastanum (horse chestnut)	\$230.48	\$5.50	\$12.10	fall	July
Aronia	melanocarpa (black chokeberry)	\$1.65	\$100.00	\$220.00	summer	June
Caragana	arborescens (Siberian peashrub)	\$17.97	\$146.90	\$323.19	summer	May
Carya	cordiformis (bitternut hickory)	\$65.12	\$4.07	\$8.95	fall	July
	ovata (shagbark hickory)	\$90.92	\$6.00	\$13.20	fall	July
Corylus	americana (American hazelnut)	\$48.06	\$16.20	\$35.64	summer	May
Elaeagnus	angustifolia (Russian olive)	\$4.07	\$13.55	\$29.81	fall	June
	umbellata (autumn olive)	\$7.52	\$103.43	\$227.55	fall	June
Fraxinus	americana (white ash)	\$3.57	\$14.50	\$31.90	fall	August
	pennsylvanica (green ash)	\$1.72	\$9.00	\$19.80	fall	July
Juglans	cinerea (butternut)	\$229.57	\$6.00	\$13.20	fall	July
	nigra (black walnut)	\$622.08	\$7.50	\$16.50	fall	July
Quercus	alba (white oak)	\$41.38	\$5.40	\$11.88	fall	June
	macrocarpa (burr oak)	\$48.91	\$5.40	\$11.88	fall	June
	rubra (red oak)	\$72.15	\$5.30	\$11.66	fall	June
Rosa	multiflora (multiflora rose)	\$0.85	\$60.00	\$132.00	fall	May

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 08				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 09				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 11				
Picea	mariana (black spruce)	\$0.34	\$137.76	\$303.07
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 12				
Picea	mariana (black spruce)	\$0.34	\$137.76	\$303.07
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 14				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 18				
Picea	glauca (white spruce)	\$0.89	\$159.00	\$349.80

Species		Price/1000	Price/Lb	Price/Kg
Seed Zone 21				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 24				
Picea	glauca (white spruce)	\$0.89	\$159.00	\$349.80
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 25				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 26				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
	resinosa (red pine)	\$2.44	\$111.57	\$245.45
Seed Zone 27				
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
Seed Zone 28				
Picea	abies (Norway spruce)	\$1.77	\$80.00	\$176.00
	glauca (white spruce)	\$0.89	\$159.00	\$349.80
Pinus	banksiana (jack pine)	\$1.15	\$138.08	\$303.78
	resinosa (red pine)	\$2.44	\$111.57	\$245.45



Seed Zones of Ontario

Note:

- coloured areas and numbers indicate Seed Zones
- black lines indicate Management Unit Boundaries

