

CONTAINERIZED SEEDLING PRODUCTION
STATISTICS FOR ONTARIO, 1985

J.B. SCARRATT

under the auspices of the
CONTAINER STOCK WORKING GROUP OF THE
CANADA-ONTARIO JOINT FORESTRY RESEARCH COMMITTEE

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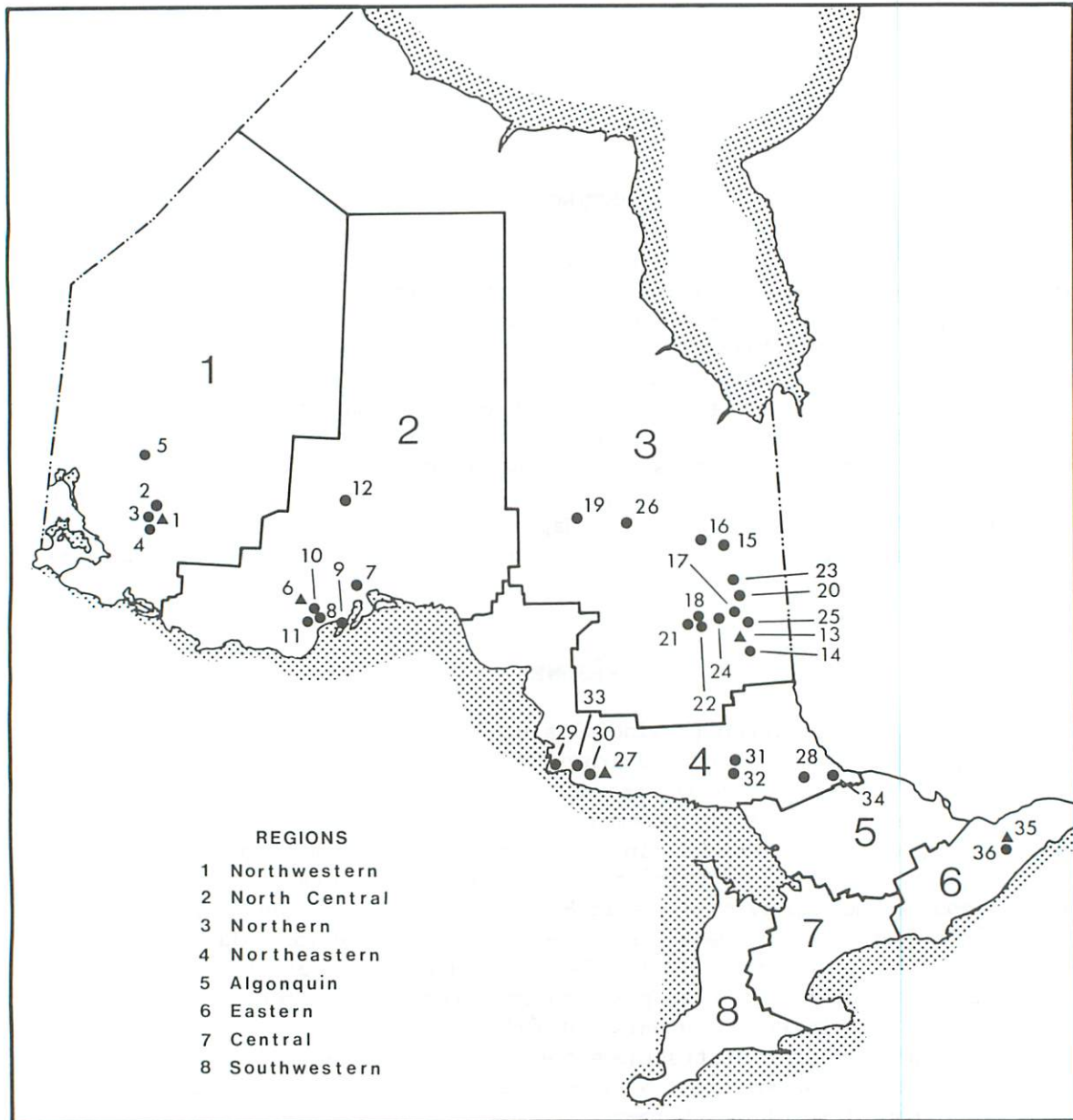
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ABSTRACT

In calendar year 1985, five provincial crown and 31 private nurseries produced a total of 87.6 million containerized tree seedlings for use in Ontario's reforestation program, an increase of 15% over the previous year. This represents 55% of total provincial planting stock production for 1985, the output of containers exceeding that of bare-root stock for the second year in succession. Private nurseries under contract to the crown grew 78 million seedlings, or 89% of all containers produced, mostly in the four northern regions of the province. The two principal species grown in containers were jack pine and black spruce, accounting for 52% and 45% of production, respectively. Almost 85% of all seedlings were grown in the Japanese paperpot. Statistics are presented to contrast production of containerized and bare-root stock by administrative region, nursery, and species.

RÉSUMÉ

En 1985, 5 pépinières provinciales et 31 pépinières privées ont produit en tout 87,6 millions de plants d'arbres en contenants pour le programme de reboisement de l'Ontario; cette production dépasse de 15% celle de l'année précédente et représente 55% de la production totale de 1985. C'est la deuxième année consécutive qu'on produit plus de plants en contenants que de plants à racines nues. Les pépinières privées ont produit 78 millions de plants pour le compte du gouvernement provincial, soit 89% des plants en contenants; la plupart de ces pépinières sont situées dans une des quatre régions du nord de la province. Le pin gris, représentant 52% de la production, et l'épinette noire, représentant 45%, sont les deux principales espèces produites en contenants. Presque 85% des plants en contenants ont été cultivés dans des pots de carton japonais. On présente des statistiques comparatives sur la production de plants en contenants et la production de plants à racines nues en fonction de la région, de la pépinière et de l'espèce.



Frontispiece. Container production nurseries in Ontario, 1985. (Large numbers indicate administrative regions; small numbers indicate locations of nurseries listed in Table 4, viz: ▲ - provincial crown nurseries, ● - private sector nurseries.)

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Cover photo: Black spruce seedlings being moved from greenhouse to outdoor shade area at La Maison Verte, Hearst.

PRODUCTION HIGHLIGHTS

In Ontario, as in most other regions of Canada, the 1980s have witnessed a dramatic expansion in the production and planting of containerized tree seedlings. This expansion has been given impetus by the demands for substantially increased forest renewal. Concurrently with the expansion of planting programs, responsibility for the production and planting of container stock has undergone major change. Since 1982, 28 Forest Management Agreements (FMAs) have been negotiated between the province of Ontario and forest products companies, so that responsibility for forest management, and specifically much of the increase in reforestation, has been effectively transferred to the companies. Under the terms of these agreements the Ontario Ministry of Natural Resources (OMNR) is responsible for providing the planting stock used in FMA reforestation programs, and most of this is currently container-grown. To meet the need for planting stock, a policy of privatizing additional container production was implemented in 1982, when the first private nurseries began growing containerized seedlings under contract to OMNR. Since that time, production contracts have been negotiated with private growers in all northern regions of the province.

This is the fourth in a series of annual reports summarizing containerized seedling production statistics for the province of Ontario. For the last report year, 1984, total production of container stock amounted to 81.5 million seedlings, or 57% of total planting stock production (142.8 million trees). The bulk (86%) of this container stock was grown in 26 private greenhouses.

Total planting stock production, of all stock types, continued to rise in 1985 (Fig.1), although somewhat more slowly than in 1984, reaching a record

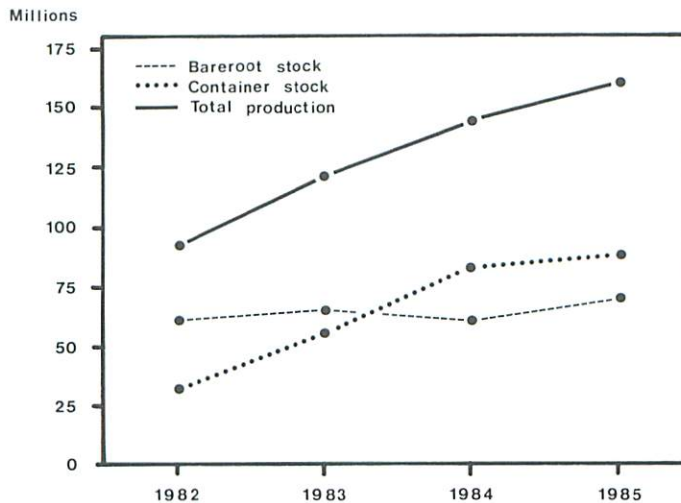


Figure 1. Containerized and bare-root planting stock production for the years 1982 to 1985 (millions of trees).

158.9 million trees. This represents an increase of 11.3% over the previous year's figure, and more than a 72% increase since 1982. Production of bare-root stock, after a temporary decline in 1984, returned to its former level and showed a modest upward trend (a 6.5% increase over 1983) to 68.8 million trees. However, for the second consecutive year, bare-root production was again surpassed by the output of container stock.

While container production again showed an increase, the rate of increase was much reduced from 1983 and 1984 (Fig.1). At 87.6 million seedlings, output was 15% higher than in 1984, and accounted for 55% of total provincial planting stock production (down slightly from 57% in 1984). These are averages for the province as a whole; Table 5 shows that 99% of all container stock was grown in the four northern regions of the province (Northwestern, North Central, Northern, Northeastern), where the proportion of containerized seedlings was frequently substantially higher than the provincial average (range 58% to 93%; average 67%).

The number of private nurseries producing containerized tree seedlings increased from 26 to 31 in 1985, principally through the addition of new growers in the Northeastern Region. These 31 nurseries, with a total greenhouse floor-space of approximately 66,000 m², produced 89% of all container stock grown in the province (78 million seedlings). While this represents an 11% increase in private-sector output over the previous year, their overall share of container production remained fairly stable (Fig. 2). The frontispiece and Table 6 show that most (77%) of this private sector production was again centered in the Northern and North Central regions.

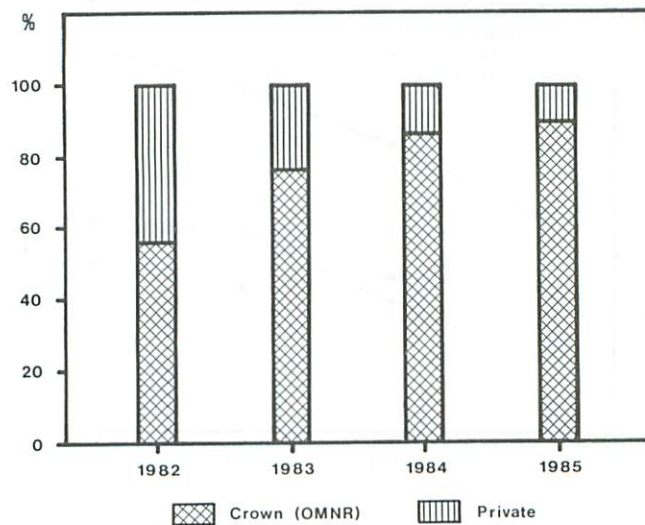


Figure 2. Distribution of container production between crown and private nurseries, 1982-1985.

Statistics for container production by species (Table 7) reflect the importance of container planting in boreal reforestation programs. The two principal species grown are jack pine (*Pinus banksiana* Lamb.) and black spruce (*Picea mariana* [Mill.] B.S.P.) which, in 1985, accounted for 52% and 45% of total container production, respectively. White pine (*Pinus strobus* L.) again occupied third place at 1.5%.

The Japanese paperpot continued to be the most widely used container, increasing its share slightly to 85% of all container stock grown in the province in 1985 (Fig. 3). With the exception of the crown nursery at Thunder Bay (No. 6, Table 4), which uses Can-Am multipots, the paperpot system is used for all crown and private container production in the North Central, Northern and Northeastern regions. In the fourth northern region, Northwestern, the Spencer-Lemaire "Roottrainer" is used exclusively.

Most of the data for this report were supplied by OMNR members of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee. Data for the Central and Southwestern regions were provided by the respective nursery superintendants at Midhurst, Orono and St. Williams. The assistance of all contributors is gratefully acknowledged.

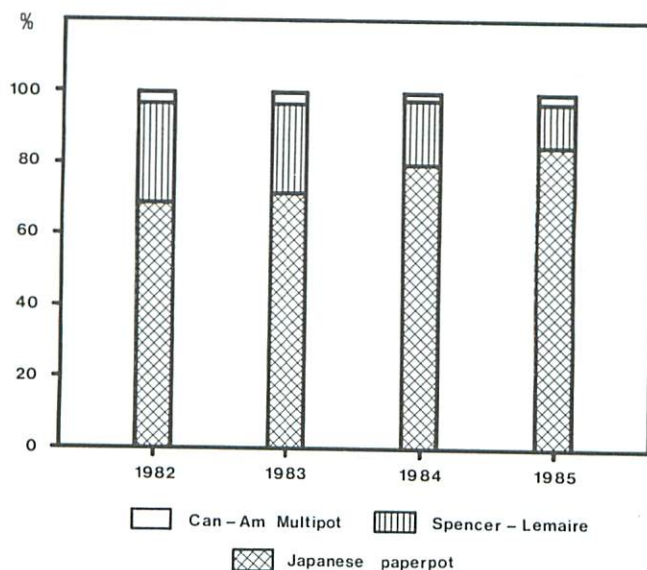


Figure 3. Container system use, 1982-1985 (as a percentage of total container stock production).

EXPLANATORY NOTES ON TABLES

1. All data are for calendar year 1985. Container stock production is presented in terms of the total number of cavities sown and numbers of shippable seedlings produced¹. The latter include seedlings produced in 1985 for shipping in the current year (1985) or for overwintering and shipping the following spring (1986). They do not include seedlings overwintered from 1984 and shipped in the spring of 1985. Data for bare-root production include only those seedlings shipped during calendar year 1985.
2. Data for container production exclude containerized seedlings used in the production of accelerated bare-root transplant stock.
3. Accelerated bare-root transplant data (Accel. transplants; tables 5-7) include production from both containerized and bare-root seedlings.
4. **NURSERY OWNERSHIP**

All container production reported was carried out in provincial crown (i.e., OMNR) or private sector nurseries under contract to OMNR. Only those private nurseries with seedling production contracts in 1985 are reported here. There were no container nurseries operated by the forest industry in Ontario in 1985.

5. CONTAINER NURSERY DIRECTORY (TABLE 4)

The following information precedes the entry for an individual nursery:

- nursery number (same sequence as on frontispiece map)
- (C) or (P) indicates crown or privately operated nursery, respectively
- mailing address (the address of the owner, and not necessarily the nursery location)
- name of nursery superintendent (OMNR) or owner
- telephone number

¹ The use of "shippable seedlings produced" rather than "seedlings shipped" has been adopted in order to give an accurate portrayal of container nursery production on a crop-year basis. This approach avoids the problem of seedlings produced to acceptable standards but for some reason not shipped (inherent in the reporting of "seedlings shipped"), and serves better to quantify actual nursery productivity in a given year.

- container system used and percentage of use:

PP4 - FH408 Japanese paperpot
PPS3 - FS308 Japanese paperpot
PPS4 - FS408 Japanese paperpot
GH20 - Combicell GH20
SLF - Spencer-Lemaire "Ferdinand"
MP1 - Can-Am Multipot 1
MP104 - Can-Am Multipot RS104

For each nursery entry:

- greenhouse description, within parentheses, follows figure for greenhouse capacity, viz:

1st letter (greenhouse style)

F - free standing
G - gutter connected

2nd letter (greenhouse cover material)

f - fiberglass or rigid plastic
g - glass
p - polyethylene

3rd letter (heating method)

a - forced air/oil
b - forced air/propane
c - forced air/natural gas
d - forced air/gas waste heat
e - hot water/oil
f - hot water/propane
g - hot water/natural gas
h - hot water/wood

* An asterisk following the greenhouse description indicates that at least part of the growing facility has blackout curtains for operationally controlling (reducing) daylength.

- species abbreviations:

bs - black spruce	(<i>Picea mariana</i> [Mill.] B.S.P.)
ws - white spruce	(<i>Picea glauca</i> [Moench] Voss)
jP - jack pine	(<i>Pinus banksiana</i> Lamb.)
rP - red pine	(<i>Pinus resinosa</i> Ait.)
wP - white pine	(<i>Pinus strobus</i> L.)
L - larch	(<i>Larix</i> spp.)
OC - other conifers	
H - hardwoods	

- crop schedule:

This provides an estimate of (1) the percentage of current and overwinter production for each species, *based on cavities sown*, and (2) the average length of production period for each growing regime, calculated on the basis of the number of weeks between sowing and shipping.

Table 1. Summary of greenhouse capacities for containerized seedling production by region and ownership category, 1985

Region	OMNR capacity ^a		Private capacity		Total capacity
	Area (m ²)	%	Area (m ²)	%	Area (m ²)
Northwestern	2 408	29.2	5 827	70.8	8 235
North Central	2 200	11.8	16 455	88.2	18 655
Northern	4 700	11.5	36 261	88.5	40 961
Northeastern	4 491	40.2	6 690	59.8	11 181
Eastern	1 200	61.9	740	38.1	1 940
Central ^b	2 015	100.0	-	-	2 015
	17 014	20.5	65 973	79.5	82 987

^a Whereas private greenhouses produced only container stock, several OMNR nurseries used their greenhouses principally for cuttings and the production of seedlings for accelerated bare-root stock.

^b Orono nursery

Table 2. Summary of container system use (cavities sown) by region, 1985.

Region	Spencer-Lemaire	Japanese paperpot	Can-Am Multipot
	- - - - - ('000 cavities sown) - - - - -		
Northwestern	11 272	-	-
North Central	-	27 792	2 413
Northern	-	45 759	-
Northeastern	-	15 409	-
Eastern	-	-	919
	11 272	88 960	3 332
% of total	10.9	85.9	3.2

Table 3. Summary of container system use (shippable seedlings produced) by region, 1985.

Region	Spencer-Lemaire	Japanese paperpot	Can-Am Multipot
	- - - - - ('000 shippable seedlings) - - - - -		
Northwestern	10 681	-	-
North Central	-	23 141	1 752
Northern	-	38 151	-
Northeastern	-	13 595	-
Eastern	-	-	909
	10 681	74 887	2 661
% of total	12.1	84.9	3.0

Table 4. Container production nurseries by region.

Greenhouse capacity (m ²), style, and heating method	Seedling production		Seedling production		Crop schedule	
	('000 cavities sown)		('000 shippable seedlings)		Current crop	Over-wintered
<u>NORTHWESTERN REGION</u>						
1(C) DRYDEN TREE NURSERY, ONTARIO MINISTRY OF NATURAL RESOURCES, P.O. BOX 90, WABIGOON, ONTARIO, POV 2W0						
[Malcolm McIntyre. Tel. (807) 938-6326]						
[SLF-100%]						
2408 (Fpa/b)*	jP	-	-	-	-	-
	bS	2027	1913	-	-	100/54
		<u>2027</u>	<u>1913</u>			
2(P) COOK LAKE NURSERIES, RR#1, SITE 28 BOX 20, DRYDEN, ONTARIO, P8N 2Y4						
[William Schneider. Tel. (807) 937-5381]						
[SLF-100%]						
670 (Fpb)	jP	1380	1291	50/14	-	50/46
	bS	-	-	-	-	-
		<u>1380</u>	<u>1291</u>			
3(P) EVERGREEN FARMS, 48 PRINCESS STREET, DRYDEN, ONTARIO, P8N 1C7						
[Charles Queau. Tel. (807) 937-5239]						
[SLF-100%]						
2062 (Fpc)	jP	2258	2210	61/15	-	39/46
	bS	731	636	-	-	100/46
		<u>2989</u>	<u>2846</u>			
4(P) TAMARAC NURSERIES LTD., RR#2, DRYDEN, ONTARIO, P8N 2Y5						
[David Lick. Tel. (807) 937-6621]						
[SLF-100%]						
1445 (Fpa/b)	jP	1380	1359	50/15	-	50/46
	bS	-	-	-	-	-
		<u>1380</u>	<u>1359</u>			

Table 4. Container production nurseries by region (cont'd).

Greenhouse capacity (m ²), style, and heating method	Seedling production		Crop schedule	
	('000 cavities sown)		('000 shippable seedlings)	
			Current crop	Over-wintered
5(P) WELLAIR CONCEPTS INC., P.O. BOX 339, EAR FALLS, ONTARIO, P0V 1T0 [Gordon Hicks. Tel. (807) 222-2325] [SLF-100%]				
1650 (Fpc)	jP	890	50/14	50/46
	bS	2606	-	100/52
		3496		
<u>NORTH CENTRAL REGION</u>				
6(C) THUNDER BAY FOREST STATION, ONTARIO MINISTRY OF NATURAL RESOURCES, RR#1, THUNDER BAY, ONTARIO, P7C 4T9 [Bob Klapprat. Tel. (807) 939-2561] [MP104-100%]				
2200 (Fpc)*	jP	1306	100/16	-
	bS	1107	-	100/52
		2413		
7(P) A & R GREENHOUSES LTD, RR#1, HURKETT, ONTARIO, P0T 1K0 [Frank Rauer and John Asperjan. Tel. (807) 857-2471] [PP4-100%]				
2007 (Fpc)	jP	1304	-	100/52
	bS	-	-	-
		1304		
8(P) CREEKSIDE NURSERY, RR#11, THUNDER BAY, ONTARIO, P7B 5E2 [Dennis Trevisanutto. Tel. (807) 345-3131] [PP4-100%]				
3211 (Fpc)	jP	1042	-	100/52
	bS	5366	64/20	36/52
		6408		

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Seedling production		Crop schedule	
	('000 cavities sown)		('000 shippable seedlings)		Current crop	Over-wintered
<p>9(P) GRUNDY'S NURSERIES LTD., PASS LAKE, ONTARIO, POT 2M0</p> <p>[Errol Grundy. Tel. (807) 977-2832]</p> <p>[PP4-100%]</p>						
2408 (Fpc)	jP	2129		1978	100/16	-
	bS	2126		1960	-	100/52
		4255		3938		
<p>10(P) HILLS GREENHOUSES LTD., OLIVER ROAD, MURILLO, THUNDER BAY, ONTARIO, POT 2G0</p> <p>[Hermann Vanduyn and Ralph Meems. Tel. (807) 935-2626]</p> <p>[PP4-100%]</p> <p>1. Production for Crown</p>						
3612 (Fpc)	jP	1526		1500	100/16	-
	bS	5476		5169	31/20	69/52
		7002		6669		
<p>2. Production for Abitibi-Price Inc.</p>						
	jP	630		613	100/16	-
	bS	-		-	-	-
		630		613		
<p>11(P) HODWITZ ENTERPRISES LTD., RR#6, THUNDER BAY, ONTARIO, P7C 5N5</p> <p>[Jim and Dan Hodwitz. Tel. (807) 939-6027]</p> <p>[PP4-100%]</p>						
3612 (Fpc)	jP	4348		4157	81/16	19/52
	bS	2541		1600	-	100/52
		6889		5757		

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Seedling production		Crop schedule	
	('000 cavities sown)		('000 shippable seedlings)		Current crop	Over-wintered
12(P) JELLIEN NURSERIES ARMSTRONG LTD., P.O. BOX 164, ARMSTRONG, ONTARIO, P0T 1A0 [Ted Neill. Tel. (807) 583-2477] [PP4-100%]						
1605 (Fpc)	jP	1304		557	-	100/52
	bS	-		-	-	-
		1304		557		
<u>NORTHERN REGION</u>						
13(C) SWASTIKA FOREST STATION, ONTARIO MINISTRY OF NATURAL RESOURCES, P.O. BOX 129, SWASTIKA, ONTARIO, POK 1T0 [Lucien J. Forcier. Tel. (705) 567-3372] [PP4-100%] ^a						
722 (Gfb)			jP	80	10/20	90/52
3978 (Fpb)			bS	39	100/20	-
			L	16	100/20	-
			OC	10	100/20	-
				145		
14(P) AIDIE CREEK GARDENS, RR#3, ENGLEHART, ONTARIO, POJ 1H0 [Charles Warner. Tel. (705) 544-2474] [PP4-100%]						
4375 (Fpb)*	jP	1000		728	-	100/45
	bS	2419		2157	-	100/50
		3419		2885		
15(P) BIRCHILL NURSERIES INC., RR#2, COCHRANE, ONTARIO, POL 1C0 [J. Russell Skidmore. Tel. (705) 272-3944] [PP4-100%]						
2890 (Fpb)	jP	-		-	-	-
	bS	2419		2249	-	100/50
		2419		2249		

^a Special tree improvement stock

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Crop schedule		
	('000 cavities sown)		('000 shippable seedlings)		
			Current crop	Over-wintered	
16(P) BLAZECKA'S GREENHOUSE, RR#2, COCHRANE, ONTARIO, POL 1C0					
[John Blazecka. Tel. (705) 272-3915]					
[PP4-100%]					
2815 (Fpc)	jP	250	165	-	100/45
	bS	2000	1414	-	100/50
		<u>2250</u>	<u>1579</u>		
17(P) ENERGREN ENTERPRISES INC., P.O. BOX 329, SWASTIKA, ONTARIO, POK 1T0					
[Gilbert Levangie. Tel. (705) 642-3426]					
[PP4-100%]					
4680 (Gpd)	jP	7107	6199	56/14	44/45
	bS	813	544	-	100/50
		<u>7920</u>	<u>6743</u>		
18(P) LAFLEUR GARDENS LTD., RR#2, AIRPORT ROAD, TIMMINS, ONTARIO, P4N 7C3					
[Richard Lafleur. Tel. (705) 268-2323]					
[PP4-99.3%; GH20-0.7%]					
4830 (Gpg)	jP	4699	4174	57/14	43/45
	bS	3500	2922	41/18	59/50
		<u>8199</u>	<u>7096</u>		
19(P) LA MAISON VERTE, LOT 29, CONCESSION 10, GIRARD ROAD, P.O. BOX 1868, HEARST, ONTARIO, POL 1N0					
[Ms. Michelle Lamy. Tel. (705) 362-7040]					
[PP4-100%]					
1526 (Gpg)	jP	585	463	100/14	-
	bS	1904	1098	37/18	63/50
		<u>2489</u>	<u>1561</u>		

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Crop schedule	
	('000 cavities sown)	('000 shippable seedlings)	Current crop	Over-wintered
20(P) LAVA MOUNTAIN LTD., P.O. BOX 10, RAMORE, ONTARIO, P0K 1R0				
[Don Boothe. Tel. (705) 236-4287]				
[PP4-100%]				
2985 (Ggg)*	jP - bs 5000 <hr/> 5000	- 3772 <hr/> 3772	- 50/18	- 50/50
21(P) M. KEAN RESOURCES INC., P.O. BOX 2120, TIMMINS, ONTARIO, P4N 7X8				
[Mark Kean. Tel. (705) 264-2048]				
[PP4-100%]				
1115 (Gpg)	jP 758 bs - <hr/> 758	529 - <hr/> 529	100/14 -	- -
22-23(P) MILLSON FORESTRY SERVICE, 1782 DALTON ROAD, RR#1, TIMMINS, ONTARIO, P4N 7C2				
[David Millson. Tel. (705) 264-3426]				
[PP4-100%]				
1908 (Ffh) -	jP 1676 bs 851 <hr/> 2527	1511 823 <hr/> 2334	32/14 100/18	68/45 -
24(P) NORTHERN GREENHOUSE FARMS LTD., 273 THIRD AVENUE, SUITE 402, TIMMINS, ONTARIO, P4N 1E2				
[Stanley M. Deluce. Tel. (705) 264-1656]				
[PP4-100%]				
5316 (Gph)	jP 5309 bs 2230 <hr/> 7539	4549 1998 <hr/> 6547	23/14 100/18	77/45 -

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Crop schedule	
	('000 cavities sown)		('000 shippable seedlings)	
			Current crop	Over-wintered
28(P) AQUANORTH FARMS INC., P.O. BOX 390, NORTH BAY, ONTARIO, P1B 8H9				
[Gerry Liddle. Tel. (705) 472-4709]				
[PP4-100%]				
1908 (Gpg)	jP	2757	44/14	56/46
	rP	299	-	100/46
	wP	120	100/15	-
	bS	-	-	-
	wS	62	-	100/60
		3238		
				2886
29(P) NEW NORTH GREENHOUSES INC., P.O. BOX 1267, SAULT STE. MARIE, ONTARIO, P6A 6N1				
[Wayne Gartshore. Tel. (705) 779-2168]				
[PPS4-80%; PPS3-20%]				
2808 (Fpg)	jP	3000	40/14	60/47
	wP	152	100/17	-
	bS	655	9/14	91/60
		3807		
				3387
30(P) NORTH SHORE NURSERY, R.R. #1, BRUCE MINES, ONTARIO, P0R 1C0				
[Amy-Jean Bolduc. Tel. (705) 785-3788]				
[PP4-100%]				
536 (Fpb)	jP	676	36/10	64/49
	bS	192	100/13	-
		868		
				780

Table 4. Container production nurseries by region (cont'd)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Crop schedule	
	('000 cavities sown)	('000 shippable seedlings)	Current crop	Over-wintered
31(P) SANDERS GREENHOUSES INC., 2150 HWY. 144, R.R. #3, CHELMSFORD, ONTARIO, POM 1L0				
[Charles Sanders. Tel. (705) 855-4380]				
[PP4-100%]				
536 (Fpa)	jP 626	580	30/12	70/48
	bS -	-	-	-
	wS 234	220	100/16	-
	860	800		
32(P) SUDBURY GROWERS, P.O. BOX 358, CHELMSFORD, ONTARIO, POM 1L0				
[Willis Sanders. Tel. (705) 855-4487]				
(PP4-100%)				
356 (Fpc)	jP 366	295	48/13	52/46
	bS -	-	-	-
	366	295		
33(P) THE TOMATO PLANT, DEPLONTY ROAD, BRUCE MINES, ONTARIO, POR 1C0				
[Robert Lawrence. Tel. (705) 782-6677]				
(PP4-100%)				
335 (Fpb/F)	jP 412	360	53/12	47/48
	bS -	-	-	-
	412	360		

Table 4. Container production nurseries by region (concl.)

Greenhouse capacity (m ²), style, and heating method	Seedling production		Crop schedule	
	('000 cavities sown)		('000 shippable seedlings)	
			Current crop	Over-wintered
34(P) WEBB'S FARM, R.R. #1, RONFIELD, ONTARIO, POM 1EO				
[Alfred Webb. Tel. (705) 776-2506]				
(PP4-100%)				
211 (Fpe)	jP	384	50/12	50/49
	bS	-	-	-
		384		
<u>EASTERN REGION</u>				
35(C) G. HOWARD FERGUSON FOREST STATION, ONTARIO MINISTRY OF NATURAL RESOURCES, RR#4, KEMPTVILLE, ONTARIO, KOG 1JO				
[A.J. Campbell. Tel. (613) 258-3413]				
(MP1-100%)				
1200 (Fpa)	jP	24	100/16	-
	wP	425	16/20	84/48
	bS	10	100/20	-
	wS	24	100/20	-
	L	80	100/16	-
	OC	6		
		569		
36(P) WALSH NURSERIES LTD., KEMPTVILLE, ONTARIO, KOG 1JO				
[Irvin Walsh. Tel. (613) 258-3053]				
(MP1-100%)				
740 (Fpb)	jP	-	-	-
	wP	350	100/18	-
	bS	-	-	-
		350		

Table 5. Summary of planting stock production, all sources, for calendar year 1985 by region and type ('000 shippable seedlings)

Region	Containerized		Bare-root		Accel. transplants		Cuttings		Total production
	Number	% of total	Number	% of total	Number	% of total	Number	% of total	
Northwestern	10 681	71.1	4 000	26.6	350	2.3	-	-	15 031
North Central	24 893	70.9	10 220	29.1	-	-	1	-	35 114
Northern	37 496	57.8	19 507 ^a	30.1	7 142	11.0	705	1.1	64 850
Northeastern	13 595	93.4	948	6.5	-	-	20	0.1	14 563
Eastern	909	9.5	7 235	75.7	-	-	1 415	14.8	9 559
Central	-	-	12 918 ^b	99.0	22	0.2	113	0.8	13 053
Southwestern	-	-	6 451	96.4	-	-	238	3.6	6 689
	87 574	55.1	61 279	38.6	7 514	4.7	2 492	1.6	158 859

^aIncludes Swastika, Chapleau and Gogama nurseries (OMNR)

^bIncludes Orono and Midhurst nurseries (OMNR)

Table 6. Summary of planting stock production for calendar year 1985 by region, type and source ('000 shippable seedlings).

Region	Containerized		Bare-root		Accel. transplants		Cuttings		Total production
	OMNR	Private	OMNR	Private	OMNR	Private	OMNR	Private	
Northwestern	1 913	8 768	4 000	-	350	-	-	-	15 031
North Central	1 752	23 141	10 220	-	-	-	1	-	35 114
Northern	145	37 351	19 507 ^a	-	7 142	-	50	655	64 850
Northeastern	4 880	8 715	948	-	-	-	20	-	14 563
Eastern	564	345	7 235	-	-	-	1 415	-	9 559
Central	-	-	12 918 ^b	-	22	-	113	-	13 053
Southwestern	-	-	6 451	-	-	-	238	-	6 689
	9 254	78 320	61 279	-	7 514	-	1 837	655	158 859

^aIncludes Swastika, Chapleau and Gogama nurseries (OMNR)

^bIncludes Orono and Midhurst nurseries (OMNR)

Table 7. Summary of planting stock production, all sources, for calendar year 1985 by region, type and species ('000 shippable seedlings).

Region	Stock type	Species								Total production
		White spruce	Black spruce	Jack pine	Red pine	White pine	Larch	Other conifers	Hard-woods	
Northwestern	Containerized	-	4 971	5 710	-	-	-	-	-	10 681
	Bare-root	312	2 024	1 658	6	-	-	-	-	4 000
	Accel. transplants	86	-	-	264	-	-	-	-	350
	Cuttings	-	-	-	-	-	-	-	-	-
North Central	Containerized	-	13 658	11 235	-	-	-	-	-	24 893
	Bare-root	3 138	4 054	2 631	365	-	-	22	10	10 220
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	1	1
Northern	Containerized	-	19 072	18 398	-	-	16	10	-	37 496
	Bare-root	5 430	10 442	3 625	-	-	10	-	-	19 507
	Accel. transplants	-	7 142	-	-	-	-	-	-	7 142
	Cuttings	-	700	5	-	-	-	-	-	705
Northeastern	Containerized	276	1 635	10 337	685	562	20	-	80	13 595
	Bare-root	-	-	799	126	23	-	-	-	948
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	20	-	20
Eastern	Containerized	24	9	23	-	768	79	6	-	909
	Bare-root	1 527	-	532	728	3 311	43	822	272	7 235
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	1 415	1 415
Central	Containerized	-	-	-	-	-	-	-	-	-
	Bare-root	2 158	241	176	3 550	3 759	61	2 231	742	12 918
	Accel. transplants	22	-	-	-	-	-	-	-	22
	Cuttings	-	-	-	-	-	-	-	113	113
Southwestern	Containerized	-	-	-	-	-	-	-	-	-
	Bare-root	810	-	-	189	1 358	-	3 058	1 036	6 451
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	238	238
		13 783	63 948	55 129	5 913	9 781	229	6 169	3 907	158 859