CONTAINERIZED SEEDLING PRODUCTION STATISTICS FOR ONTARIO, 1983

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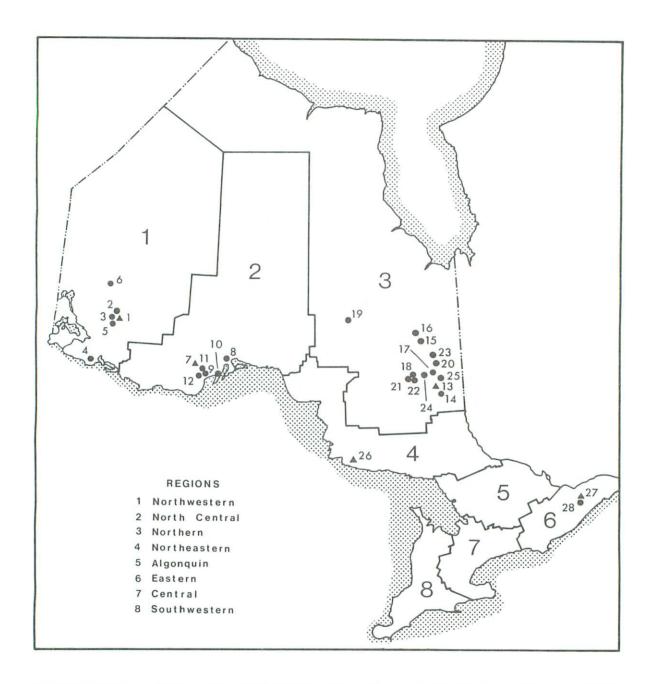
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ABSTRACT

In Ontario, five provincial crown and 23 private sector nurseries produced 54.7 million containerized tree seedlings for reforestation purposes during 1983, 78% more than in 1982. This represents approximately 45% of all planting stock produced in 1983. Private sector nurseries accounted for approximately 76% of container production, increasing their output 142% over that of the previous year. Statistics are presented to contrast production of containerized and bare-root stock by administrative region, nursery and species.

RÉSUMÉ

En 1983, cinq pépinières provinciales et 23 pépinières privées de l'Ontario ont produit 54.7 millions de semis d'arbres en récipients destinés au reboisement en 1983, soit 78% de plus qu'en 1982 et 45% environ de la production annuelle de matériel de plantation de toute nature. Les pépinières privées ont fourni 76% de la production et ont ainsi augmenté leur production de 142% en un an. Les statistiques sont présentées de façon à permettre la comparaison de la production de plants en récipients et de plants à racines nues selon la région administrative, la pépinière et l'espèce.



Frontispiece. Container production nurseries in Ontario, 1983. (Large numbers indicate administrative regions; small numbers indicate locations of nurseries listed in Table 4: A - provincial crown nurseries, • - private sector nurseries).

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Iroquois Falls, Ontario (photo courtesy of Ray Hong, Ontario Ministry of Natural Resources, Kirkland Lake).

PRODUCTION HIGHLIGHTS

This is the second in a series of annual reports summarizing containerized tree seedling production statistics for the province of Ontario. The first report, for calendar year 1982, showed that five provincial crown and 12 private sector nurseries produced a total of 31 million containerized seedlings for reforestation purposes. This represented approximately one third of all planting stock produced during that year (total 92 million). Private sector nurseries accounted for approximately 56% of container stock production.

Stimulated by pressures for a substantially expanded forest renewal program, planting stock production continued to show a strong increase during 1983. Total production of all stock types reached 120.5 million trees, an increase of 31% over the previous year. However, by far the largest portion of this increase, 84%, was in the production of containerized seedlings. This resulted in a significant shift in the status of the container program. Consequently, whereas containers accounted for only one third of all stock produced in 1982, by 1983 container production, at 45%, was almost on a par with that of bare-root stock.

Containerized seedling production rose to 54.7 million in 1983, an increase of 78% over 1982. Most of the additional production came from private sector nurseries under contract to the Ontario Ministry of Natural Resources (OMNR), the number of which increased from 12 to 23, located principally in the Northwestern, North Central and Northern regions (frontispiece). Total private sector production increased 142% to 41.7 million seedlings in 1983. In contrast, container production by the five provincial crown nurseries remained relatively constant at 13 million seedlings, although their relative contribution declined, dropping from 44% to 24% of shippable seedlings.

Most of the data for this report were supplied by OMNR regional members of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee. For the Central and Southwestern regions, planting stock production data were provided by the respective provincial nursery superintendents. The assistance of all contributors is gratefully acknowledged.

EXPLANATORY NOTES ON TABLES

The format is essentially the same as that used for the first report. The principal change is in Table 4, where information has been added (1) to indicate the type of greenhouse heating method used, and (2) to summarize crop schedules at individual nurseries.

- 1. All data are for calendar year 1983. Container stock production is presented in terms of the total number of cavities sown and numbers of shippable seedlings produced. The latter includes seedlings produced in 1983 for shipping in the current year (1983) or for overwintering and shipping the following spring (1984). It does not include overwintered seedlings shipped in the spring of 1983. Data for bare-root production include only seedlings shipped during calendar year 1983.
- 2. Data for container production exclude containerized seedlings grown for use 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. CMNR) or private sector nurseries under contract to CMNR. Only those private nurseries with seedling production contracts are reported here. There were no container nurseries operated by the forest industry in Ontario in 1983.

5. GREENHOUSE TYPE

- i. Heated houses with conventional heating systems.
- ii. Unheated houses with assisted cooling (e.g., thermostatically controlled vents and extractor fans, or other mechanical cooling devices).
- iii. Shelterhouses unheated houses or other protective structures with only passive cooling (i.e., no mechanical cooling devices). In 1983, no nursery reported using such structures in the production of container stock.

¹ The use of "shippable seedlings produced" rather than "seedlings shipped" is determined by the desire for 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.

6. TABLE 4 - CONTAINER NURSERY DIRECTORY

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
- name of nursery superintendent or owner
- telephone number
- container system used and percentage of use:

```
PP4 - FH408 Japanese paperpot
```

SLF - Spencer-Lemaire "Ferdinand"

MP1 - Can-Am Multipot 1

MP3 - Can-Am Multipot 3

LT - Ray Leach Super "Stubby"

For each entry:

- greenhouse description, in 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

- species abbreviations:

bS - black spruce

wS - white spruce

jP - jack pine

rP - red pine

wP - white pine

sP - Scots pine

L - larch (tamarack)

OC - other conifers

- 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 (m²) for containerized seedling production by region and ownership category, 1983a.

		OMNR capacity	7	1	Private capac	ity		Total capacit	ty
Region	Heated houses	Unheated houses	Shelter- houses	Heated houses	Unheated houses	Shelter- houses	Heated houses	Unheated houses	Shelter- houses
Northwestern	2 230	-	-	4 692	-	-	6 922	=	-
North Central	1 300	-	-	14 604	, -	-	15 904	-	_
Northern	4 700	-	-	27 045	-	-	31 745	-	-
Northeastern	2 395	2 096	-	-	-	-	2 395	2 096	-
Eastern	900	300	1 200	566	280	-	1 466	580	1 200
Centralb	1 663	=	4 830	-	82 — 77		1 663	-	4 830
	13 188	2 396	6 030	46 907	280		60 095	2 676	6 030

U

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, 1983.

Region	Spencer- Lemaire	Japanese paperpot	Can-Am Multipot	Other
		- ('000 cavit	les sown)	
Northwestern	12 699	-	-	-
North Central	2 520	12 010	280	-
Northern	-	37 108	40	56
Northeastern	-	4 328	- !	88
Eastern	_	-	1 493	-
	15 219	53 446	1 813	144
% of total	21.5	75.7	2.6	0.2

Table 3. Summary of container system use (shippable seedlings produced) by region, 1983.

Region	Spencer- Lemaire	Japanese paperpot	Can-Am Multipot	Other
		- ('000 shippable	seedlings)	
Northwestern	11 505	-	-	-
North Central	2 160	10 050	240	-
Northern	-	25 302	20	27
Northeastern	-	3 982	-	81
Eastern	-	-	1 312	-
	13 665	39 334	1 572	108
% of total	25.0	71.9	2.9	0.2

Green	house capacity and style	(m ²)		The state of the s	production ities sown)		g production pable seedlings)		op dule
Heated houses	Unheated houses	Shelter- houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current	Over- wintered
NORTHWESTERN	REGION								
		1(C)	DRYDEN		RY, ONTARIO MINIS 0, WABIGOON, ONTA		RESOURCES,		
				[Malcolm M	cIntyre. Tel. (8	07) 938-6326]			
					[SLF-100%]				
2230 (Ffa/b)	-	-	jP bs ws	1279 2407 57	-	1279 ^a 2407 ^a 57 ^a	-	92/16 6/19 -	8/52 94/64 100/64
				3743	_	3743	-		
				[Bill Sch	neider. Tel. (80	7) 937-5381]			
668 (Fpb)	-	-	jP bS	- 690	-	- 685	-	-	- 100/52
				690	-	685	-		
			3(P)	EVERGREEN	FARMS, 48 PRINCE ONTARIO, P8N 1C		DEN,		
				[Charles	Queau. Tel. (807	937-5239]			
					[SLF-100%]				
212 (Fpc)	-	-	jP bs	1265 1265	Ξ	1130 1165	Ξ	100/14	- 100/52
				2530	-	2295	-		

a All containers restocked to 100%

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

Green	house capacity and style	(m ²)		production vities sown)		g production ppable seedlings)		op edule
Heated houses	Unheated houses	Shelter- houses	Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over- wintered
			4(P) RI	ONTARIO, POW 10				
			[Nick	Mutz. Tel. (807)	486-3421]			
				[SLF-100%]				
440 (Ffa)	-	-	jP 860	-	661	-	50/14	50/52
			bS -			-	-	-
			860	.	661	-		
			5(P) TAI	MARAC NURSERIES, F ONTARIO, P8N 21				
			[David	Lick. Tel. (807)	937-6621]			
				[SLF-100%]				
722 (Fpe/h)	-	-	jP 690	-	678	-	100/14	-
			bs 690	-	608	-	-	100/52
			1380	-	1286	-		
				AIR CONCEPTS INC., FALLS, ONTARIO, F				
			[Gordon	Hicks. Tel. (807) 222-2325]			
				[SLF-100%]				
1650 (Fpc)	-	-	jP 1748	-	1260	-	100/14	-
			bs 1748		1575		-	100/52
			3496	_	2835	=		

8

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

Gree	enhouse capacity and style	(m ²)			production vities sown)		g production pable seedlings)		op dule
Heated houses	Unheated houses	Shelter- houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over- wintered
ORTH CENTR	RAL REGION								
		7(C) T	HUNDER		STATION, ONTARIO N		JRAL RESOURCES,		
				[Bob Kla	apprat. Tel. (807	7) 939-2561]			
					[SLF-90%; MP1-10	0.8]			
1300 (Fpc)	-	-	jP bS	1400 1400	=	1200 1200	-	100/16	100/52
				2800	_	2400	-		
		[F:	rank Ra	uer and John	n Asperjan. Tel. [PP4-100%]	(807) 857-2471/	/ 857–2286]		
1605 (Fpc)	-	_	jP bS	1630	-	1420	-	-	100/52
			20	1630	and the second s	1420	-		
		9(1	P) CRE	EKSIDE NURS	ERY, RR#11, THUND	ER BAY, ONTARIO,	, P7B 5E2		
				[Dennis Tre	visanutto. Tel.	(807) 345-3131]			
					[PP4-100%]				
3211 (Fpc)	·-·	-	jP bS	- 2688	-	2050	-	-	100/52
				2638	-	2050	-		

9 -

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

Green	nhouse capacity and style	(m ²)			production vities sown)		ng production ppable seedlings)		cop edule
Heated houses	Unheated houses	Shelter- houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current	Over- wintered
			10(P) GI	RUNDY'S NURS	SERIES LTD., PASS	LAKE, ONTARIO,	POT 2M0		
			[1	Errol Grundy	Tel. (807) 977	-2832/977-2690]			
					[PP4-100%]				
1605 (Fpc)	-	-	jР	-	-	_	-	_	_
			bS	1422	-	1250	-	-	100/52
				1422	-	1250	-		
3612 (Fpc)	-	-	jP bs	- 2720	[PP4-100%] - -	_ 2300	į.	<u>.</u>	- 100/52
				2720	-	2300	-		
			12/ p	e) HODWITTZ E	NTERPRISES LTD.,	DDSC TUITUDED B	A.V		
			12(2	, nobwiia b	ONTARIO, P7C 5N		AI p		
			t	Jim and Dan	Hodwitz. Tel. (307) 939-6027]			
					[PP4-100%]				
3612 (Fpc)	-	-	jР	_	_	-	-	_	-
959 (Fge)			bs	3550	-	3030	-	-	100/52
				3550	-	3030	-		

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

Gree	nhouse capacity and style	(m ²)			production rities sown)		g production pable seedlings)		op edule
Heated houses	Unheated houses	Shelter- houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over- wintered
NORTHERN RE	GION								
		13(C) S	SWASTIK	A FOREST STA	TION, ONTARIO MIN 129, SWASTIKA, ONT	IISTRY OF NATURA	AL RESOURCES,		
				[Lucien J.	Forcier. Tel. (7	705) 567-3372]			
					[PP4-100%]				
722 (Gfb) 3978 (Fpb)	-	-	jP bS	- 2435	-	- 1973	-	-	- 100/55
				2435	-	1973	-		
		14	a(P) AII		Warner. Tel. (70		, 200 1110		
					[PP4-100%]				
4375 (Fpb)	-	-	jP bs	994 2421	-	742 1762	Ξ	2	100/50 100/52
				3415	-	2504	-		
		15(1	P) BIRCI	HILL NURSERI	ES INC., RR#2, CO	CHRANE, ONTARIO), POL 1CO		
				[J. Russell	Skidmore. Tel. (705) 272-6185]			
					[PP4-100%]				
2890 (Fpb)	-	-	jP bs	- 2419	-	- 493	-	- . -:	100/52
			200	2.1.2					

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

Green	nhouse capacity and style	(m ²)		the second secon	production ities sown)		ng production opable seedlings)		op dule
Heated houses	Unheated houses	Shelter- houses		leated nouses	Unheated houses	Heated houses	Unheated houses	Current crop	Over- wintere
		16((P) BLAZEC	KA'S GREE	NHOUSE, RR#2, COO	CHRANE, ONTARIO,	POL 1C0		
				[John Bla	zecka. Tel. (705	5) 272-3915]			
					[PP4-100%]				
1204 (Fpb)	-	-	jP bS	- 1008	-	- 957	-	-	100/52
			-	1008	-	957	_		
		1		Gilbert L	erprises inc., p. ONTARIO, POK 17 evangie. Tel. (7	705) 642-3426]	ASTIKA,		
		1		Gilbert L	ONTARIO, POK 17	705) 642-3426]	ASTIKA,		
4715 (Gpd)	-	-	j _P	Gilbert L	ONTARIO, POK 17	705) 642-3426]	- -	35/16 57/20	65/50 43/52
4715 (Gpd)	-	-	jp bs	Gilbert L [PP4-98.	ONTARIO, POK 17	705) 642-3426] 3 V93-0.7%]	- - -		
4715 (Gpd)	-	-	jP bs –	Gilbert L [PP4-98. 2518 5475 7993	ONTARIO, POK 17	205) 642-3426] 3 V93-0.7%] 1411 2461 3872	<u>-</u>		
4715 (Gpd)	-	-	jp bs -	Gilbert L [PP4-98. 2518 5475 7993	ONTARIO, POK 11 evangie. Tel. (7 8%; MP3-0.5%; CFS	20 (27) (42-3426] (41) (41) (41) (41) (41) (41) (41) (41)	<u>-</u>		
4715 (Gpd)	-	-	jp bs -	Gilbert L [PP4-98. 2518 5475 7993	ONTARIO, POK 17 evangie. Tel. (7 8%; MP3-0.5%; CFS GARDENS LTD., RREMINS, ONTARIO, P4	20 (27) (42-3426] (41) (41) (41) (41) (41) (41) (41) (41)	<u>-</u>		
4715 (Gpd) 1873 (Gpb)	-	-	jP bs - 18(P)	Gilbert L [PP4-98. 2518 5475 7993	ONTARIO, POK 11 evangie. Tel. (7 8%; MP3-0.5%; CFS GARDENS LTD., RR# MINS, ONTARIO, P4 afleur. Tel. (70	20 (27) (42-3426] (41) (41) (41) (41) (41) (41) (41) (41)	<u>-</u>		

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

Green	nhouse capacity and style	(m ²)			production ities sown)		ng production opable seedlings)		op dule
Heated houses	Unheated houses	Shelter- houses	8	Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over- wintered
		1	9(P) LA	MAISON VER	TE, LOT 26, CONCE	SSION 10, GIRA	RD ROAD,		
			1	[Ms. Michel	le Lamy. Tel. (7	05) 362-7040]			
					[PP4-100%]				
1248 (Gpg)	-	-	jP bs	- 1312	-	- 451	5	-	- 100/52
			DD	1312		451			
					[PP4-100%]				
2984 (Gge)	_	_	jР	2530	41	2006	-	51/16	49/50
2504 (Gge)			bs	2451	-	2044	-	49/20	51/50
				4981	-	4050	-		
			21(1		RESOURCES, 624 CO		TH,		
				[Mark]	Kean. Tel. (705)	264-2048]			
					[PP4-100%]				
302 (Ffb)	×	-	jP bS	256 -	-1 -1	225	-	2	100/50
				256	_	225	_		

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

Gre	enhouse capacity and style	y (m ²)			production vities sown)		ng production ppable seedlings)		cop edule
Heated houses	Unheated houses	Shelter- houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current	Over- wintered
			22-2		N FORESTRY SERVICE TIMMINS, ONTARIO,		ROAD,		
				[David M	illson. Tel. (705	5) 264-3426]			
					[PP4-100%]				
22(P) <u>Val</u>	Gagne site								
1605 (Ffh)	-	-	jP bS	561 1670	-	299 906	-	50/15 50/19	50/50 50/52
				2231	-	1205	-		
23(P) <u>Timm</u>	ins site								
302 (Ffb)	-	-	jP bS	256 -	-	251	-	100/15	-
				256	-	251	_		
			24(P)		GREENHOUSE FARMS L		1160,		
				[R.J. De	eluce. Tel. (705)	264-9521]			
					[PP4-100%]				
2657 (Gph)	-	-	jP bs	2216 2231	-	1760 2023	-	56/15 56/19	44/52 44/52
				4447		3783	-		
									(contid)

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

Greenhouse capacity (m^2) and style				g production avities sown)		ng production ppable seedlings)	Crop schedule	
Heated houses	Unheated houses	Shelter- houses	Heated houses	Unheated houses	Heated houses	Unheated houses	Current	Over- wintere
				DEVELOPMENT LTD., 75		AD WEST,		
				delbaum. Tel. (705				
				[PP4-100%]				
2890 (Fpb)	-	-	jp - bs 2427	-	- 2268	Ξ	-	100/52
			2427	-	2268	_		
NORTHEASTER	N REGION							
		26(C)		TURSERY, ONTARIO MIN 310, THESSALON, ONT		AL RESOURCES,		
			[Glenn	Connell. Tel. (705	842-3914]			
				[PP4-98%; LT-2%]				
2395 (Fpe/f) 2096 (Fp)	-	jP 2328 rP 380 wP 204 bS -	1504 - - -	2126 332 169	1436 - - -	41/12	59/48 100/49 100/49
			2912	1504	2627	1436		

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

Gree	enhouse capacity and style	(m ²)			production vities sown)		g production pable seedlings)		op dule
Heated houses	Unheated houses	Shelter- houses		Heated houses	Unheated houses	Heated houses	Unheated houses	Current crop	Over- wintered
EASTERN REC	GION								
		27(C) G.			DREST STATION, ONT		F NATURAL		
				[A.J. Campl	pell. Tel. (613)	258-3413]			
					[MP1-100%]				
900 (Fpa)	300 (Ff)	1200	jP wP	- 56	40 547	- 56	36 439	50/16	50/46 100/48
			bs ws	14	-	14 18	-	100/20 100/20	_
			ws L	18 96	-	88	-	100/16	_
			oc	118	-	114	-	,	
				302	587	290	475		
		28(P) WALS	SH NURSERIES	G LTD., KEMPTVILLE	, ONTARIO, KOG	1J0		
				[Irvin Wa]	lsh. Tel. (613) 2	58-3053]			
					[MP1-100%]				
566 (Fpe/f)	280 (Fp)	_	jР	48	_	48	_	100/16	_
700 (FPE/I)	200 (19)		rp	78	-	75	_	100/16	_
			wP	48	400	48	348	11/18	89/48
			bS	-	-	-	-	-	-
			L	30	-	28		100/16	-
				204	400	199	348		

Table 5. Summary of planting stock production, all sources, for calendar year 1983 by region and type ('000 shippable seedlings).

	Containerized		Bare-root		Accel. transplants		Cuttings		Total
Region	Number	% of total	Number	% of total	Number	% of total	Number	% of total	productio
Northwestern	11 505	80.8	2 367	16.6	362	2.6	-	=	14 234
North Central	12 450	52.5	11 274	47.5	-	-	-	=	23 724
Northern	25 349	53.2	22 147 ^a	46.5	53	0.1	120	0.2	47 669
Northeastern	4 063	85.3	701	14.7	-	-	-	-	4 764
Eastern	1 312	14.0	7 094	75.8	=	=	952	10.2	9 358
Central	_	-	14 110 ^b	98.7	30	0.2	154	1.1	14 294
Southwestern	-	=	6 473	100.0	-	-		按	6 473
	54 679	45.4	64 166	53.2	445	0.4	1 226	1.0	120 516

^aIncludes Swastika, Chapleau and Gogama nurseries (OMNR)

bIncludes Orono and Midhurst nurseries (OMNR)

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Table 6. Summary of planting stock production for calendar year 1983 by region, type and source ('000 shippable seedlings).

Containerized		Bare-root		Accel. transplants		Cuttings		Pro-61 (200)	
OMNR	Private	OMNR	Private	OMNR	Private	OMNR	Private	Total production	
3 743	7 762	2 367	-	362	-	-	-	14 234	
2 400	10 050	11 274	-	_	-	-	-	23 724	
1 973 .	23 376	22 147ª	-	53	-	120	-	47 669	
4 063	-	701	-	-	-	-	-	4 764	
765	547	7 094	-	-	-	952	-	9 358	
-	-	14 110 ^b	-	30	-	154	-	14 294	
-	-	6 473	-	-	-	-	-	6 473	
12 044	41 725	CA 400						120 516	
	3 743 2 400 1 973 · 4 063 765	3 743 7 762 2 400 10 050 1 973 · 23 376 4 063 - 765 547	3 743 7 762 2 367 2 400 10 050 11 274 1 973 · 23 376 22 147 ^a 4 063 - 701 765 547 7 094 14 110 ^b - 6 473	3 743 7 762 2 367 - 2 400 10 050 11 274 - 1 973 · 23 376 22 147 ^a - 4 063 - 701 - 765 547 7 094 14 110 ^b 6 473 -	3 743 7 762 2 367 - 362 2 400 10 050 11 274 1 973 · 23 376 22 147 ^a - 53 4 063 - 701 765 547 7 094 14 110 ^b - 30 - 6 473	3 743 7 762 2 367 - 362 - 2 400 10 050 11 274 1 973 · 23 376 22 147 ^a - 53 - 4 063 - 701 765 547 7 094 14 110 ^b - 30 6 473	3 743 7 762 2 367 - 362 2 400 10 050 11 274 1 973 · 23 376 22 147a - 53 - 120 4 063 - 701 765 547 7 094 952 14 110b - 30 - 154 6 473	3 743 7 762 2 367 - 362 2 400 10 050 11 274 1 973 · 23 376 22 147 ^a - 53 - 120 - 4 063 - 701 765 547 7 094 952 14 110 ^b - 30 - 154 6 473	

aIncludes Swastika, Chapleau and Gogama nurseries (OMNR) bIncludes Orono and Midhurst nurseries (OMNR)

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Table 7. Summary of planting stock production, all sources, for calendar year 1983 by region, type and species ('000 shippable seedlings).

Region	Stock type	White spruce	Black spruce	Jack pine	Red pine	White pine	Larch	Other conifers	Hard- woods	Total production
	0. 1. 1	57	6 440	5 008	_	_	_	_	_	11 505
Northwestern	Containerized	292	1 697	-	361	_	_	17	_	2 367
	Bare-root	130	122	_	110	_	_	_	_	362
	Accel. transplants Cuttings	-	-	-	-	-	_	-	-	-
North Central	Containerized	_	9 830	2 620	-	-	2.00	-	-	12 450
	Bare-root	3 631	5 278	1 829	518	-	-	12	6	11 274
	Accel. transplants	-	_	-0	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	-	-
Northern	Containerized	-	17 936	7 413	-	-	-	_	-	25 349
	Bare-root	3 334	8 582	10 180	51	-	-	-	-	22 147
	Accel. transplants	-	53	-		-	-	-	-	53
	Cuttings	-	120			=	-	-	-	120
Northeastern	Containerized	-	-	3 562	332	169	-	-	-	4 063
	Bare-root	-	-	370	253	74	-	-	4	701
	Accel. transplants	-	-	_	-	_	-	-	-	-
	Cuttings	_	-	-	_	_	-	-	_	-
Eastern	Containerized	18	14	84	75	891	116	114	-	1 312
	Bare-root	1 325	36	556	1 502	1 514	41	1 984	136	7 094
	Accel. transplants	-	-	-	-	-	-	-	-	-
	Cuttings	-	-	-	-	-	-	-	952	952
Central	Containerized	-	-	_	19 2 0	-	-	() 	-	-
	Bare-root	3 726	733	115	3 450	2 643	9	2 630	804	14 110
	Accel. transplants	30			-	-	_	-	_	30
	Cuttings	20	134	-	-	-	-	-	-	154
Southwestern	Containerized	-	-	-	-	-	-	-	-	-
	Bare-root	1 121	-	135	81	3 065	-	895	1 176	6 473
	Accel. transplants	-	·	-	-	-	-	100	-	-
	Cuttings				-	-			-	
		13 684	50 975	31 872	6 733	8 356	166	5 652	3 078	120 516