

FOREST TREE PRODUCTION CENTRES IN CANADA

1983

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CANADIAN FORESTRY SERVICE

DEPARTMENT OF THE ENVIRONMENT

1984

INFORMATION REPORT 0-X-357

©Minister of Supply and Services Canada 1984  
Catalogue No. Fo46-14/357E  
ISBN 0-662-13197-5  
ISSN 0822-210X

*Copies of this report may be obtained from:*

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Canadian Forestry Service  
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#### **ABSTRACT**

A total of 103 public sector, private and forest industry nurseries produced planting stock for reforestation purposes in 1983. Of these, 47 grew bare-root stock and 83 grew containerized seedlings. Planned production of bare-root and containerized stock for 1983 was 281 million and 260 million seedlings, respectively. Since 1979, bare-root production expanded by 40%, or 81 million seedlings, and containerized stock increased by 140%, or 152 million seedlings. Total production is forecasted to increase to 285 million bare-root and 271 million containerized seedlings in 1984.

#### **RÉSUMÉ**

Au total, 103 pépinières, publiques, privées ou appartenant aux industries forestières, ont produit du matériel de reboisement en 1983. De ce nombre, 47 produisaient des plants à racines nues et 83, des semis en contenant. La production prévue était de 281 millions de plants à racines nues et de 260 millions de semis en contenant en 1983. Depuis 1979, les premiers ont connu une augmentation de production de 40%, soit 81 millions de semis, tandis que les seconds, une augmentation de 140%, soit 152 millions de semis. On prévoit que la production totale augmentera jusqu'à 285 millions dans le cas des premiers et à 271 millions dans le cas des seconds, en 1984.

#### **ACKNOWLEDGMENTS**

This directory of Canada's forest tree production centres was prepared with the assistance of representatives of provincial forestry agencies, the forest industry and private sector growers across Canada. Their cooperation is greatly appreciated. Special thanks are also due to the Canadian Forestry Service regional FORSTATS representatives who initiated contact with production centre managers and compiled data for their respective regional data bases. We gratefully acknowledge permission granted by L.W. Carlson to reproduce illustrations from his 1979 report, "Guidelines for rearing conifer seedlings in the Prairie Provinces".

#### **FOREWORD**

The FORSTATS (FORestry STATisticS) program provides current statistical information on Canada's forest resources, including periodic descriptions and analyses of forest inventory and growth; losses from insects, diseases, and fire; nursery production and silvicultural practice; and social and economic conditions.

The following federal government establishments participate in the FORSTATS program: Canadian Forestry Service headquarters in Hull, P.Q., the Forestry Statistics and Systems Branch in Chalk River, Ont., the Pacific Forest Research Centre in Victoria, B.C., the Northern Forest Research Centre in Edmonton, Alta., the Great Lakes Forest Research Centre in Sault Ste. Marie, Ont., the Laurentian Forest Research Centre in Ste-Foy, P.Q., the Maritimes Forest Research Centre in Fredericton, N.B., the Newfoundland Forest Research Centre in St. John's, Nfld., the Petawawa National Forestry Institute in Chalk River, Ont., and the Forest Pest Management Institute in Sault Ste. Marie, Ont. Provincial forestry agencies, other provincial and federal agencies, and the forest industry cooperate in providing data for the program.

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Cover Photo: Swastika Provincial Tree Nursery, Ontario Ministry of Natural Resources, Swastika, Ontario.

## INTRODUCTION

This report was prepared for the purpose of providing current information on forest tree production centres and planned seedling production levels in Canada for the period 1983-1986. It is intended primarily for use by nursery managers and other individuals who have a direct or indirect interest in forest tree production centres, their location, and their production levels. This report is an update of a similar study, *A Directory of Forest Tree Nurseries in Canada*, by J.H. Smyth, published in 1980.

The information contained in this report deals with federal, provincial, industrial, and private commercial production centre operations producing bare-root and containerized forest tree seedlings primarily for reforestation of harvested land. The information on individual forest tree production centres and production levels is presented on a provincial basis.

## NATIONAL SUMMARY

### Bare-root Seedling Production

In 1983, approximately 281 million bare-root seedlings were targeted for production in 47 production centres across Canada (Table 1). The majority of the growing stock is destined for reforestation and afforestation projects on

TABLE 1. NATIONAL SUMMARY OF BARE-ROOT SEEDLING PRODUCTION.

PROVINCE	NUMBER OF PRODUCTION CENTRES	AREA AVAILABLE FOR PRODUCTION -- HECTARES -- (1)	AREA CURRENTLY IN PRODUCTION -- HECTARES -- (2)	SHIPPABLE TREES			PLANNED PRODUCTION		
				1982	1983	1984	('000)	-----	-----
BRITISH COLUMBIA	13	975	334	62 149	81 059	81 759			
ALBERTA	2	193	108	9 760	14 516	12 368			
SASKATCHEWAN	4	158	89	10 520	16 442	16 442			
MANITOBA	1	46	24	4 071	5 483	5 483			
ONTARIO	11	743	560	63 018	77 700	82 000			
QUEBEC	9	283	250	34 604	62 549	62 549			
NEW BRUNSWICK	3	128	92	20 550	15 120	15 200			
NOVA SCOTIA	2	72	51	4 100	5 000	5 000			
PRINCE EDWARD ISLAND	1	20	2	176	400	400			
NEWFOUNDLAND	1	40	40	2 243	2 300	3 800			
TOTAL	47	2 658	1 550	211 191	280 569	285 001			

(1) Area within the nursery available for growing bare-root stock.

(2) Area within the nursery currently growing bare-root stock.

provincial crown lands with the remainder being planted on federal, industrial freehold, private and municipal lands. Seventy-nine percent of the total targeted seedlings produced were grown in British Columbia, Ontario and Quebec.

A number of significant changes in bare-root production occurred during the five-year period 1979-1983. First, the number of production centres in British Columbia increased from eight in 1979 to 13 in 1983. This increase occurred in the private rather than the public sector. Except for Quebec, which lost one production centre during the five-year period, the number of production centres in the other provinces remained the same. On a national basis, the total number of hectares of land in production increased slightly from 1,363 ha in 1979<sup>1</sup> to 1,550 ha in 1983.

Second, the number of forest tree seedlings produced increased sharply from approximately 200 million in 1979 to 281 million in 1983, an increase of 40%. In comparison with 1979, production rose sharply in all provinces except Saskatchewan, New Brunswick and Prince Edward Island.

In the national context, planned production for 1984 is estimated at 285 million seedlings, an increase of approximately 2% over 1983. Ontario, and to a lesser extent British Columbia and Newfoundland, will account for a large percentage of this increase in production. There will be little or no increase in production levels in the remaining provinces.

#### *Containerized Seedling Production*

Approximately 260 million containerized seedlings were targeted for the 83 production centres located throughout Canada in 1983 (Table 2). Eighty-eight percent of this production occurred in four provinces --British Columbia (37%), Ontario (26%), New Brunswick (14%), and Alberta (11%). The number of trees targeted increased sharply by 152 million, or 140%, from the 108 million seedlings produced in 1979. Production for 1984 is estimated to increase marginally over that for 1983 by 4% or 10.7 million seedlings. British Columbia, Manitoba, Ontario, Quebec, New Brunswick, and Nova Scotia are expected to increase production levels over 1983, but only marginally. The remaining provinces, except Saskatchewan, will either maintain or decrease 1984 production levels. Saskatchewan has no planned production for 1984.

There were approximately 264,000 m<sup>2</sup> of growing space available for containerized production in 1983. The total production area includes heated and non-heated greenhouses, and shelterhouses. The production area of 264,000 m<sup>2</sup> represents an increase of 153%, or 160,000 m<sup>2</sup>, over the available growing space of 104,000 m<sup>2</sup> recorded for 1979.

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<sup>1</sup> The area in production and other production data for the Prairie Farm Rehabilitation Administration tree nursery in Saskatchewan and the two federal experimental nurseries located in Ontario and Newfoundland, respectively, as noted in the 1980 report, "A Directory of Forest Tree Nurseries in Canada", are excluded from the calculations.

TABLE 2. NATIONAL SUMMARY OF CONTAINERIZED SEEDLING PRODUCTION.

PROVINCE	NUMBER OF PRODUCTION CENTRES	AREA AVAILABLE FOR PRODUCTION -SQUARE METRES-	SHIPPABLE TREES			PLANNED PRODUCTION - ('000)-
			1982		1983	
			1984			
BRITISH COLUMBIA	22	117 355	65 226	96 632	102 132	
ALBERTA	4	17 833	20 797	29 097	26 600	
SASKATCHEWAN	2	1 401	872	000	000	
MANITOBA	2	1 977	981	2 051	3 677	
ONTARIO	28	61 792	32 593	67 134	68 376	
QUEBEC	5	10 999	5 718	13 318	15 518	
NEW BRUNSWICK	9	27 164	27 363	37 305	38 606	
NOVA SCOTIA	7	18 624	9 650	9 591	10 964	
PRINCE EDWARD ISLAND	1	3 717	1 633	1 000	1 000	
NEWFOUNDLAND	3	3 204	1 627	3 800	3 800	
TOTAL	83	264 066	166 460	259 928	270 673	

The number of containerized production centres increased dramatically during the five-year period leading up to 1983. This increase occurred mainly in British Columbia and Ontario, which gained 12 and 20 production centres, respectively. In both provinces, the additional production centres have been entirely within the private sector.

The type of container used to rear growing stock varies considerably across the country. In British Columbia the most popular container, and the one used almost exclusively, is the BC/CFS styroplug. Spencer-Lemaire Rootrainer "books" and Japanese paperpots are also used, but to a much lesser extent.

In Alberta, Spencer-Lemaire Rootrainer "books" are used exclusively at both provincial and private sector production centres. In Manitoba, the Japanese paperpot FH408 is used exclusively at the province's two production centres.

In Ontario, several types of container are used. The Japanese paperpot FH408 is the most popular and most widely used, followed by Spencer-Lemaire Rootrainer "books". The Japanese paperpot FH308 and Can-Am Multipot containers are also used, but to a very limited extent.

In Quebec a variety of containers are used, including the Quebec tube, IPL container, Can-Am Multipot, BC/CFS styroblock, and Japanese paperpot FH408. At present, the Quebec tube and the IPL container are the two most popular containers in use.

In Atlantic Canada, the type of container used varies considerably from province to province. In New Brunswick, the Japanese paperpot FH408 is the most widely used container, although the Can-Am Multipot and BC/CFS styroblock are used extensively, and in some cases exclusively, in a number of production centres. In Nova Scotia the Can-Am Multipot is used almost exclusively, while in Prince Edward Island and Newfoundland the Spencer-Lemaire Rootrainer "books" are the most widely used containers. Appendix 1 provides a brief description of each of the more commonly used containers in forest tree production centres across Canada.

#### *Seedling Production by Ownership*

Table 3 summarizes bare-root and container seedling production by ownership and province for 1983. Of Canada's total production of tree seedlings, 91% of bare-root stock and 51% of containerized stock was grown by provincial governments. These percentages, however, vary from province to province. Gener-

TABLE 3. NATIONAL SUMMARY OF SEEDLING PRODUCTION BY OWNERSHIP - 1983

PROVINCE		FEDERAL (%)	PROVINCIAL (%)	INDUSTRY (%)	PRIVATE (%)	TOTAL PRODUCTION ('000)
BRITISH COLUMBIA	BARE-ROOT CONTAINER	-	82.3 45.9	6.2 11.0	11.5 43.1	81 059 96 632
ALBERTA	BARE-ROOT CONTAINER	-	100.0 90.2	- 9.8	-	14 516 29 097
SASKATCHEWAN	BARE-ROOT CONTAINER	-	100.0 -	-	-	16 442
MANITOBA	BARE-ROOT CONTAINER	-	100.0 100.0	-	-	5 483 2 051
ONTARIO	BARE-ROOT CONTAINER	-	98.7 27.0	1.3 -	- 73.0	77 700 67 134
QUEBEC	BARE-ROOT CONTAINER	-	99.2 55.9	20.8 -	- 23.5	62 549 13 318
NEW BRUNSWICK	BARE-ROOT CONTAINER	-	33.1 68.4	66.9 31.6	-	15 120 37 305
NOVA SCOTIA	BARE-ROOT CONTAINER	16.3	100.0 36.5	- 27.1	- 20.1	5 000 9 591
PRINCE EDWARD ISLAND	BARE-ROOT CONTAINER	-	100.0 100.0	-	-	1 400 1 000
NEWFOUNDLAND	BARE-ROOT CONTAINER	-	100.0 100.0	-	-	2 300 3 800
TOTAL CANADA	BARE-ROOT CONTAINER	.6	90.8 50.8	5.9 11.8	3.3 36.8	280 569 259 928

ally speaking, the greater percentage of bare-root production was undertaken by provincial governments in all jurisdictions except New Brunswick, where only 33% of the bare-root stock was grown in government nurseries.

In the production of containerized seedlings, only the provinces of Alberta, Manitoba, Prince Edward Island and Newfoundland grew the greater percentage of their container stock in provincially owned production centres. In British Columbia, Ontario, Quebec, New Brunswick and Nova Scotia, a significant proportion of total production was undertaken mainly by the forest industry and private sector. In British Columbia, Ontario, and Nova Scotia 54%, 73%, and 47%, respectively, of the total number of trees reared in 1983 were produced by the forest industry and by commercial operators in the private sector.

#### DIRECTORY

##### *Explanation of Directory Information*

###### (a) Bare-root Production Centres

Area Available for Production: The area within the nursery available for growing bare-root stock.

Area Currently in Production: The area within the nursery currently growing bare-root stock.

Productive Capacity: The quantity of bare-root stock that could be grown if the total area available for production were utilized.

Trees Shipped: The total number of trees that were shipped from the production centre in each of the calendar years 1980, 1981 and 1982.

Planned Production: The estimated planned production for the production centre for each of the calendar years 1983, 1984, 1985 and 1986.

###### (b) Containerized Production Centres

Area Available for Production: Includes heated and unheated greenhouses, shelterhouses, hoop houses, etc., but does not include shade areas and open holding areas.

Shippable Trees: Refers to the number of trees available for shipping in each of the calendar years 1980, 1981, and 1982.

PROVINCE OF BRITISH COLUMBIA  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ( '000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ( '000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
INDUSTRY	GRANDVIEW NURSERY, WEYERHAEUSER CANADA LTD., R.R. 3, ST. ANNE'S RD., ARMSTRONG, B.C., VOE 1B0 604-546-8711 T.G. DANIELS	27	17	8 300	-	-	-	1983 - 5 000 LP 80% 1984 - 5 000 DF 10% 1985 - 5 000 WS 4% 1986 - 5 000 ES 4% OCON 2%	
PRIVATE	GREATER VICTORIA WATER DIST., 479 ISLAND HIGHWAY, V9B 1H7 604-478-1715 D.H. PILLAR	.5	.2	150	75	80	75	1983 - 60 AF 85% 1984 - 60 WRC 15% 1985 - 60 1986 - 60	
PRIVATE	INDUSTRIAL FORESTRY SERVICE NESS LAKE FOREST NURSERY, #101-1595 FIFTH AVENUE, PRINCE GEORGE, B.C., V2L 3L9 604-564-4115 F.P. DONNELLY	16	8	8 000	700	2 000	4 000	1983 - 4 800 WS 100% 1984 - 5 500 1985 - 6 000 1986 - 6 000	I 80 I
PRIVATE	NORTHWOOD PULP AND TIMBER FOREST CENTRE, BOX 9000 PRINCE GEORGE, B.C., V2L 4W2 604-962-9611 K. WATSON	117	34	4 500	-	-	2 800	1983 - 4 000 WS 100% 1984 - 4 000 1985 - 4 000 1986 - 4 000	
PRIVATE	RIVERSIDE NURSERY, BOX 185, HEDELEY, B.C., VOX 1K0 604-292-8397 I. NELSON	8	2	3 000	-	262	383	1983 - 500 WS 100% 1984 - 500 1985 - 500 1986 - 500	
PROVINCE	CAMPBELL RIVER NURSERY, MINISTRY OF FORESTS, BOX 25, CAMPBELL RIVER, B.C., V9W 4Z9 604-286-1015 R.G. HUDSON	90	39	11 100	5 347	9 104	8 476	1983 - 6 000 S 38% 1984 - 6 000 BF 35% 1985 - 6 000 AF 27% 1986 - 6 000	
PROVINCE	CHILLIWACK NURSERY, MINISTRY OF FORESTS, BOX 242, VEDDER CROSSING, B.C., VOX 1Z0 604-858-7156 V. BITTERLICH	51	40	9 000	4 968	8 260	6 092	1983 - 9 000 S 56% 1984 - 9 000 AF 43% 1985 - 9 000 BF 1% 1986 - 9 000	

PROVINCE OF BRITISH COLUMBIA  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN	
					1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)			
PROVINCE	GREEN TIMBERS NURSERY, MINISTRY OF FORESTS, 9800-140 STREET, SURREY, B.C., V3T 4M5 604-581-2464 M.N. COLLARD	65	27	6 500	4 468	2 558	3 669	1983 - 4 500 1984 - 4 500 1985 - 4 500 1986 - 4 500	F P S OCON	86% 9% 4% 1%
PROVINCE	KOKSILAH NURSERY, (*) MINISTRY OF FORESTS 5847 CHESTERFIELD ST., BOX 816, DUNCAN, B.C., V9L 3Y2 604-746-5452 N.A. MARSHALL	28	10	6 500	2 919	2 699	2 636	1983 - - 1984 - - 1985 - - 1986 - -	F C S H	46% 31% 14% 9%
PROVINCE	RED ROCK NURSERY, MINISTRY OF FORESTS, 15 MILE ROAD, R.R. 7, R.M.D. 6 PRINCE GEORGE, B.C., V2N 2J5 604-963-9651 W. BERG	220	60	14 700	8 780	10 204	9 138	1983 - 10 550 1984 - 10 550 1985 - 10 550 1986 - 10 550	S P	76% 24%
PROVINCE	SKIMIKIN NURSERY, MINISTRY OF FORESTS, GENERAL DELIVERY, TAPEN, B.C., VOE 2X6 604-835-4541 T.H. HAMILTON	162	24	9 700	4 905	7 224	7 960	1983 - 7 792 1984 - 7 792 1985 - 7 792 1986 - 7 792	S F P OCON	63% 30% 6% 1%
PROVINCE	SURREY NURSERY, MINISTRY OF FORESTS, 3605-192 STREET, SURREY, B.C., V3S 4N8 604-576-9161 H. SCHROEDER	188	71	30 500	23 380	16 114	16 211	1983 - 28 050 1984 - 28 050 1985 - 28 050 1986 - 28 050	S F OCON	73% 23% 4%
PROVINCE	TELKWA NURSERY, MINISTRY OF FORESTS, BOX 310, TELKWA, B.C., VOJ 2X6 N. CHADSEY	2.4	2.2	1 500	547	1 293	709	1983 - 807 1984 - 807 1985 - 807 1986 - 807	S	100%

(\*) NURSERY CURRENTLY BEING PHASED OUT

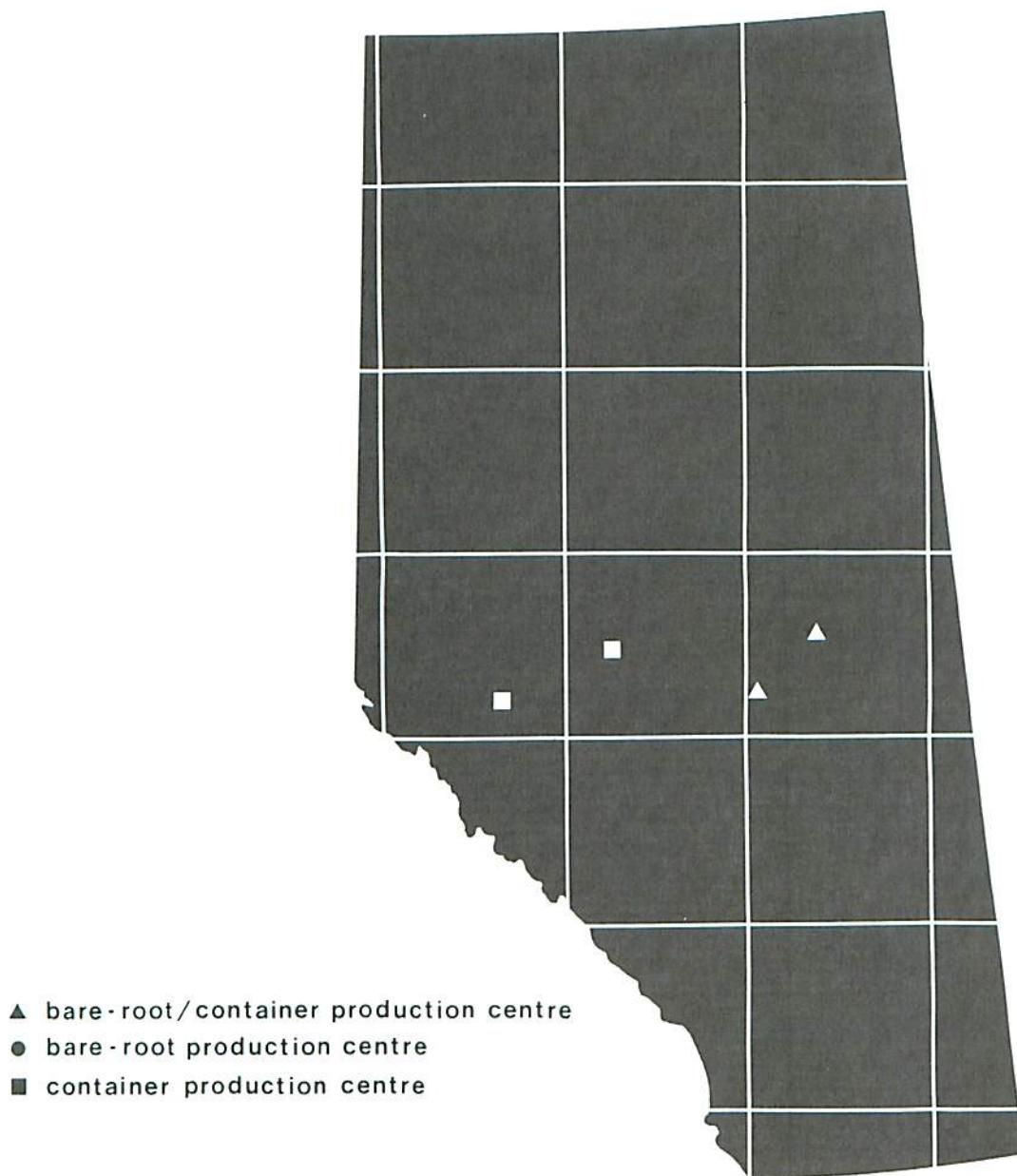
PROVINCE OF BRITISH COLUMBIA  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980      1981      1982 ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981	1982			
PROVINCE	GREEN TIMBERS NURSERY, MINISTRY OF FORESTS, 9800 - 140 STREET, SURREY, B.C., V3T 4M5 604-581-2464 M.N. COLLARD	HEATED SHADEFRAME	5 632 2 880	4 851	5 095	5 979	1983 - 5 672 1984 - 5 672 1985 - 5 672 1986 - 5 672	STYRO 211, S F C	77% 16% 7%
PROVINCE	HARROP NURSERY, MINISTRY OF FORESTS, R.R. 3, NELSON, B.C. V1L 5P6 604-229-5353 H. ELIAS	HEATED UNHEATED	5 647 261	482	153	251	1983 - 4 500 1984 - 4 500 1985 - 4 500 1986 - 4 500	STYRO 211, S LP	93% 7%
PROVINCE	KOKSILAH NURSERY, MINISTRY OF FORESTS, 5847 CHESTERFIELD ST., BOX 816, DUNCAN, B.C. V9L 3Y2 604-746-5452 N.A. MARSHALL	HEATED UNHEATED OPEN COMPOUND	9 275 3 132 2 880	4 871	6 847	5 924	1983 - 8 971 1984 - 8 971 1985 - 8 971 1986 - 8 971	STYRO 211, S WRC H F P	28% 22% 19% 19% 12%
PROVINCE	RED ROCK NURSERY, MINISTRY OF FORESTS, 15 MILE ROAD, R.R. 7, R.M.D. 6, PRINCE GEORGE, B.C., V2N 2Z5 604-963-9651 W. BERG	HEATED UNHEATED	1 105 837	320	804	924	1983 - 770 1984 - 770 1985 - 770 1986 - 770	STYRO 211, P S	85% 15%
PROVINCE	SKIMIKIN NURSERY, MINISTRY OF FORESTS, GENERAL DELIVERY, TAPPEN, B.C., VOE 2X6 604-835-4541 T.H. HAMILTON	HEATED OPEN COMPOUND	3 880 18 800	2 516	2 793	3 348	1983 - 5 658 1984 - 5 658 1985 - 5 658 1986 - 5 658	STYRO 211, P WL F S	86% 9% 4% 1%
PROVINCE	SURREY NURSERY, MINISTRY OF FORESTS, 3605 - 192 STREET, SURREY, B.C. V3S 4N8 604-576-9161 H. SCHROEDER	HEATED UNHEATED SHADE FRAME	5 927 1 026 11 520	9 911	11 481	8 419	1983 - 12 412 1984 - 12 412 1985 - 12 412 1986 - 12 412	STYRO 211, S F H F	67% 24% 9%
PROVINCE	VERNON NURSERY, MINISTRY OF FORESTS, 4604 PLEASANT VALLEY ROAD, VERNON, B.C. V1T 4M6 604-542-0264 K. STRALBISKI	HEATED OPEN COMPOUND	88 5 325	2 711	3 280	3 261	1983 - 3 246 1984 - 3 246 1985 - 3 246 1986 - 3 246	STYRO 211, P 313	100%

NOTE: PERCENTAGE USE OF CONTAINERS IN PROVINCIAL-OWNED NURSERIES; STYRO 313 - 70%, STYRO 211 - 20%, STYRO 415 - 4%, SP/LE - 6%.

CONTAINER TYPES: STYRO = BC/CFS STYROPLUG; SP/LE = SPENCER LEMAIRE "ROOTRAINERS"; PAPPT = PAPERPOT.

# Alberta



## PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	2	4
Area available for production	193 ha	17 833 m <sup>2</sup>
Area currently in production	108 ha	-
1982 Shippable production ('000)	9 760	20 797
1983 Targeted production ('000)	14 516	29 097

PROVINCE OF ALBERTA  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
PROVINCE	ALBERTA TREE NURSERY AND HORTICULTURE CENTRE, DEPT. OF AGRICULTURE, R.R. 6, EDMONTON, ALTA., T5B 4K3 403-973-3351 G. GRAINGER	113	65	3 200	2 700	2 700	2 700	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	DEC X(*) 30% 70%
PROVINCE	PINE RIDGE FOREST NURSERY, ALBERTA FOREST SERVICE, DEPT. OF ENERGY & NATURAL RESOURCES, BOX 750, SMOKEY LAKE, ALTA., T0A 3C0 403-656-4130 R. WINN	80	43	16 000	929	6 188	7 060	1983 - 9 516 1984 - 7 368 1985 - 19 530 1986 - 15 000	WS LP 90% 10% 14 1

(\*) INCLUDES CARAGANA 30%

PROVINCE OF ALBERTA  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981 ('000 TREES)	1982			
INDUSTRY	BLUE RIDGE LUMBER (1981) LTD., BOX 1079, WHITECOURT, ALTA., TOE 2L0 403-648-3733 D. CURREY	HEATED UNHEATED	610 750	1 100	1 100	1 100	1983 - 1 100 1984 - 1 100 1985 - 1 100 1986 - 1 100	SP/LE 4,5,6 LP X	75% 20% 5%
INDUSTRY	ST. REGIS (ALBERTA) LTD., BAG SERVICE 8000 HINTON, ALTA. TOE 1B0 403-865-2251 EXT.497 S. TORNBLOM	HEATED	1 068	-2 500	3 000	2 750	1983 - 1 750 1984 - 2 500 1985 - 2 000 1986 - 2 000	SP/LE 6 LP WS	75% 25%
PROVINCE	ALBERTA TREE NURSERY AND HORTICULTURE CENTRE DEPT. OF AGRICULTURE, R.R. 6 EDMONTON, ALTA., T5B 4K3 403-973-3351 G. GRAINGER	HEATED	1 365	2 700	2 700	2 700	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	SP/LE 6 CON DEC	50% 50%
PROVINCE	PINE RIDGE FOREST NURSERY, ALBERTA FOREST SERVICE, DEPT. OF ENERGY & NATURAL RESOURCES, BOX 750 SMOKY LAKE, ALTA., TOA 3C0 403-656-4130 R. WINN	HEATED	14 040	12 446	8 701	14 247	1983 - 21 247 1984 - 18 000 1985 - 18 000 1986 - 18 000	SP/LE 6 WS LP	90% 10%

CONTAINER TYPE : SP/LE = SPENCER-LEMAIRE "ROOTRAINERS".

# Saskatchewan



## PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	4	2
Area available for production	157.6 ha	1 401 m <sup>2</sup>
Area currently in production	88.8 ha	-
1982 Shippable production ('000)	10 520	872
1983 Targeted production ('000)	16 442	(*)
	(*) no production planned	

PROVINCE OF SASKATCHEWAN  
BARE-ROOT PRODUCTION CENTRES

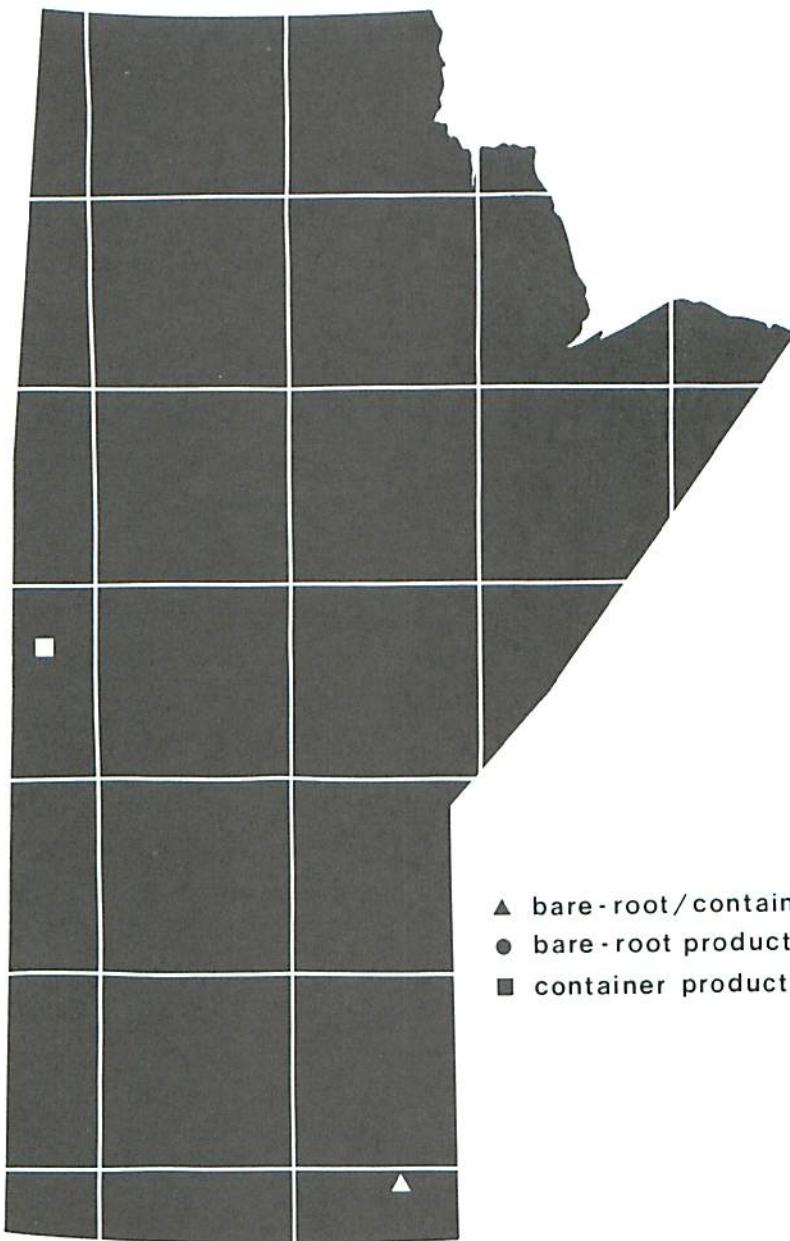
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981 ('000 TREES)	1982		
PROVINCE	BIG RIVER FOREST NURSERY, DEPT. OF PARKS AND RENEWABLE RESOURCES, BIG RIVER, SASK., SOJ 0E0 306-469-2180 J. McCUTCHEON	28	13	15 000	2 341	2 924	3 438	1983 - 4 500 1984 - 4 500 1985 - 4 500 1986 - 4 500	WS JP 52% 48%
PROVINCE	CHITEK LAKE FOREST NURSERY, DEPT. OF PARKS AND RENEWABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-984-2157 J. CHERNYSH	9.3	7.4	2 000	-	210	307	1983 - 1 538 1984 - 1 538 1985 - 1 538 1986 - 1 538	WS JP 70% 30%
PROVINCE	PRINCE ALBERT FOREST NURSERY, DEPT. OF PARKS AND RENEWABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-764-9119 L. REMPEL	111	61	30 000	8 300	4 258	6 613	1983 - 9 192 1984 - 9 192 1985 - 9 192 1986 - 9 192	WS JP 80% 20%
PROVINCE	SOUTHBRANCH FOREST NURSERY, DEPT. OF PARKS AND RENEWABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-467-4461 J. CHERNYSH	9.3	7.4	2 000	-	217	162	1983 - 1 212 1984 - 1 212 1985 - 1 212 1986 - 1 212	JP WS 75% 25%

PROVINCE OF SASKATCHEWAN  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES '000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981	1982			
PROVINCE	BIG RIVER FOREST NURSERY, DEPT. OF PARKS AND RENEWABLE RESOURCES, BIG RIVER, SASK., SOJ OEO 306-469-2180 J. McCUTCHEON	HEATED	267	21	154	100	1983 - 1984 - 1985 - 1986 -	MULTI 2 200	RP LP 60% 40%
PROVINCE	PRINCE ALBERT FOREST NURSERY, DEPT. OF PARKS AND RENEWABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-764-9119 L. REMPEL	HEATED	1 134	956	821	772	1983 - 1984 - 1985 - 1986 -	MULTI 2 1 542 1 542	JP 100% 100% 100%

CONTAINER TYPE : MULTI = CAN-AM MULTIPOT.

# Manitoba



## PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	1	2
Area available for production	46 ha	1 977 m <sup>2</sup>
Area currently in production	24 ha	-
1982 Shippable production ('000)	4 071	981
1983 Targeted production ('000)	5 483	2 051

PROVINCE OF MANITOBA  
BARE-ROOT PRODUCTION CENTRES

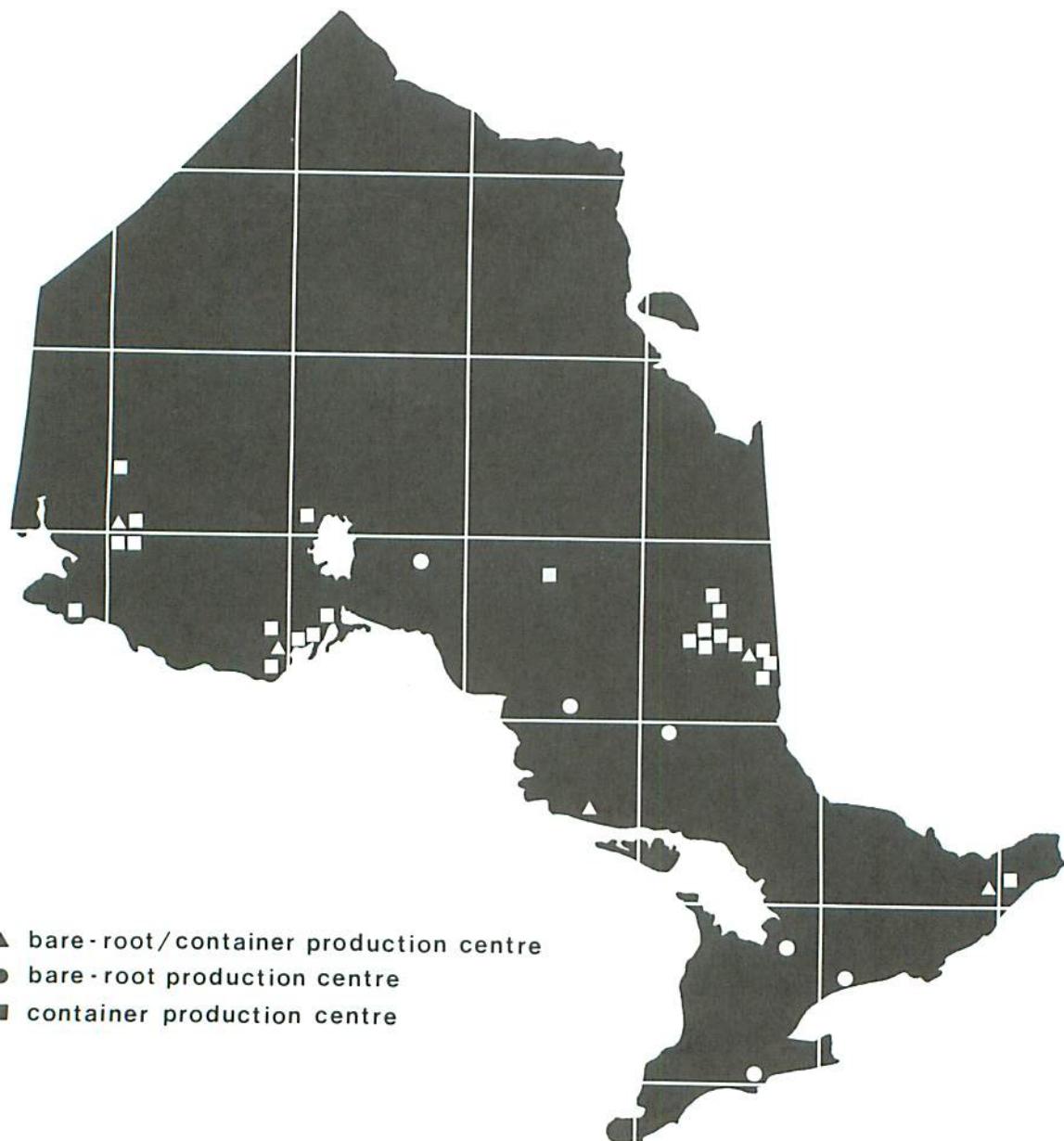
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)		
PROVINCE	PINELAND PROVINCIAL FOREST NURSERY, BOX 45, HADASHVILLE, MAN., R.R. 0 X0 204-426-5235 H.C. TIRSCHMANN	46	24	23 000	1 518	3 518	4 071	1983 - 5 483 1984 - 5 483 1985 - 5 483 1986 - 5 483	JP 45% WS 29% RP 21% SP 4% L 1%

PROVINCE OF MANITOBA  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN	
				1980	1981	1982				
PROVINCE	CLEARWATER PROVINCIAL FOREST NURSERY, DEPT. OF NATURAL RESOURCES, BOX 2550, THE PAS, MAN., 204-624-5769 (POSITION VACANT)	HEATED	1 355	-	-	-	1983 - 400 1984 - 1 200 1985 - 2 000 1986 - 2 800	PAPPT 408	BS JP	83% 17%
PROVINCE	PINELAND PROVINCIAL TREE NURSERY, DEPT. OF NATURAL RESOURCES, BOX 45, HADASHVILLE, MAN., R.R. #1 204-426-5235 H.C. TIRSCHMANN	HEATED	622	502	939	981	1983 - 1 651 1984 - 2 477 1985 - 3 990 1986 - 5 642	PAPPT 408	BS WS	92% 8%

CONTAINER TYPE : PAPPT = PAPERPOT

# Ontario



## PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	11	28
Area available for production	743 ha	61 792 m <sup>2</sup>
Area currently in production	560 ha	-
1982 Shippable production ('000)	63 018	32 593
1983 Targeted production ('000)	77 700	67 134

PROVINCE OF ONTARIO  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION ('000 TREES)	MAJOR SPECIES GROWN
					1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)		
INDUSTRY	KIMBERLY-CLARK OF CANADA LIMITED, WOODLANDS DIVISION, LONGLAC, ONT., POT 2AO 807-876-2221 H.T. STANLEY	16	12	1 250	1 119	550	743	1983 - 1984 - 1985 - 1986 -	1 000 1 000 1 000 1 000
PROVINCE	CHAPLEAU NURSERY MINISTRY OF NATURAL RESOURCES, 190 CHERRY ST., CHAPLEAU, ONT., POM 1K0 705-864-1717 M.E. HAWKINS	8	7	3 300	1 900	2 400	1 100	1983 - 1984 - 1985 - 1986 -	2 200 3 300 3 300 3 300
PROVINCE	DRYDEN FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 90, WABIGOON, ONT., POV 2W0 807-938-6326 T.R. MYLAND	36	25	12 000	2 500	5 800	2 500	1983 - 1984 - 1985 - 1986 -	6 000 6 000 6 000 6 000
PROVINCE	G. HOWARD FERGUSON FOREST STATION MINISTRY OF NATURAL RESOURCES, R.R. 4 KEMPTVILLE, ONT., KOG 1G0 613-258-3413 A.J. CAMPBELL	141	115	12 000	8 500	9 100	7 900	1983 - 1984 - 1985 - 1986 -	9 200 10 000 11 500 11 500
PROVINCE	GOGAMA FOREST STATION, MINISTRY OF NATURAL RÉSOURCES, BOX 129, GOGAMA, ONT., POM 1W0 705-894-2075 B. CASSIDY	7	3	3 200	1 200	3 200	3 100	1983 - 1984 - 1985 - 1986 -	3 200 3 500 3 200 3 200
PROVINCE	KIRKWOOD FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 310, THESSALON, ONT., POB 110 705-842-3912 I.E. SEABROOK	15	4	1 500	888	898	482	1983 - 1984 - 1985 - 1986 -	1 700 1 500 1 500 1 000

PROVINCE OF ONTARIO  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED ('000 TREES)			PLANNED PRODUCTION (1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
PROVINCE	MIDHURST FOREST STATION, MINISTRY OF NATURAL RESOURCES, MIDHURST, ONT., L0L 1X0 705-728-2900 C.R. GROVES	114	94	12 000	9 100	8 200	8 600	1983 - 8 200 1984 - 9 500 1985 - 10 200 1986 - 10 500	EWP 24% WS 22% RP 16% BS 15% EWC 9% SP 5% OCON 5% ODEC 4%
PROVINCE	ORONO FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 119, ORONO, ONT., L0B 1M0 416-983-9147 B.J. PHILLION	85	58	8 300	5 992	4 918	5 075	1983 - 6 000 1984 - 6 000 1985 - 6 000 1986 - 6 000	WS 32% RP 31% EWP 14% EWC 9% SP 4% NS 2% ODEC 8%
PROVINCE	ST. WILLIAMS FOREST STATION, MINISTRY OF NATURAL RESOURCES, R.R. 1 ST. WILLIAMS, ONT., NOE 1P0 519-586-3576 G.R. McLEOD	85	80	8 100	8 031	7 968	7 239	1983 - 7 200 1984 - 7 200 1985 - 7 200 1986 - 7 200	EWP 40% EWC 21% WS 9% NS 9% WA 6% X 15%
PROVINCE	SWASTIKA FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 129, SWASTIKÁ, ONT., POK 1T0 705-642-3255 L. FORCIER	114	114	22 000	19 350	19 200	15 325	1983 - 19 000 1984 - 19 000 1985 - 19 000 1986 - 19 000	BS 64% WS 20% JP 16%
PROVINCE	THUNDER BAY FOREST STATION, MINISTRY OF NATURAL RESOURCES, R.R. 1 THUNDER BAY, ONT., P7C 4T9 807-939-2558 R. KLAPPAT	122	48	19 000	8 604	11 028	10 954	1983 - 15 000 1984 - 16 000 1985 - 17 000 1986 - 19 000	BS 45% WS 37% JP 14% RP 3% X 1%

PROVINCE OF ONTARIO  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981 ('000 TREES)	1982			
PRIVATE	A & R GREENHOUSES LTD., R.R. 1, HURKETT, ONT., PO# 1KO 807-857-2471 F. RAUER J. ASPERJAN	HEATED	1 605	-	-	1 750	1983 - 1 000 1984 - 1 000 1985 - 1 000 1986 - 1 000	PAPPT 408	JP 100%
PRIVATE	AIDIE CREEK GARDENS, R.R. 3, ENGLEHART, ONT., PO# 1HO 705-544-2474 C. WARNER	HEATED UNHEATED	1 084 1 365	-	-	1 814	1983 - 2 735 1984 - 2 735 1985 - 2 735 1986 - 2 735	PAPPT 408	BS JP 71% 29%
PRIVATE	BIRCHILL NURSERIES INC., R.R. 2, COCHRANE, ONT., PO# 1CO 705-272-3944 J.R. SKIDMORE	HEATED	2 890	-	-	-	1983 - 1 935 1984 - 1 935 1985 - 1 935 1986 - 1 935	PAPPT 408	BS 100%
PRIVATE	BLAZECKA'S GREENHOUSES, R.R. 2, COCHRANE, ONT., PO# 1CO 705-272-3915 J. BLAZECKA	HEATED	1 204	-	-	-	1983 - 800 1984 - 800 1985 - 800 1986 - 800	PAPPT 408	BS 100%
PRIVATE	COOK LAKE NURSERIES LTD., R. R. 1, DRYDEN, ONT., P8N 2Y4 W. SCHNEIDER	HEATED	669	-	-	-	1983 - 1 200 1984 - 1 200 1985 - 1 200 1986 - 1 200	SP/LE 6	JP BS 50% 50%
PRIVATE	CREEKSIDE NURSERY LTD., R.R. 11, THUNDER BAY, ONT., P7B 5E2 807-767-3437 D. TREVISANUTTO	HEATED	3 211	-	-	1 736	1983 - 2 146 1984 - 2 146 1985 - 2 146 1986 - 2 146	PAPPT 408	BS 100%
PRIVATE	ENERGREEN ENTERPRISES INC., BOX 329, SWASTIKÄ, ONT., PO# 1TO 705-236-4311 G. LEVANGIE	HEATED	5 619	-	-	3 180	1983 - 6 388 1984 - 6 388 1985 - 6 388 1986 - 6 388	PAPPT 408	BS JP 50% 50%

PROVINCE OF ONTARIO  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981 ('000 TREES)	1982			
PRIVATE	EVERGREEN FARMS, 48 PRINCESS ST., DRYDEN, ONT., P8N 1C4 807-937-5239 K. SCHMIDT C. QUEAU	HEATED	1 212	-	-	1 391	1983 - 2 200 1984 - 2 200 1985 - 2 200 1986 - 2 200	SP/LE 6	JP BS 50%
PRIVATE	GRUNDY'S NURSERIES LTD., PASS LAKE, ONT., POT 2M0 807-577-2832 E. GRUNDY	HEATED	1 605	-	-	-	1983 - 1 000 1984 - 1 000 1985 - 1 000 1986 - 1 000	PAPPT 408	BS 100%
PRIVATE	HILLS GREENHOUSES LTD., OLIVER RD. MURILLO, ONT., POT 2G0 807-935-2626 H. VANDUYN R. MEEMS	HEATED	3 612	-	-	2 912	1983 - 3 000 1984 - 3 000 1985 - 3 000 1986 - 3 000	PAPPT 408	BS 100%
PRIVATE	HODWITZ ENTERPRISES LTD., R.R. 6 THUNDER BAY, ONT., P7C 5N5 807-939-6027 J. HODWITZ D. HODWITZ	HEATED	4 631	-	-	2 024	1983 - 2 820 1984 - 2 820 1985 - 2 820 1986 - 2 820	PAPPT 408	BS 100%
PRIVATE	JELLIEN NURSERIES (ARMSTRONG) LTD., BOX 164, ARMSTRONG, ONT., POT 1A0 807-583-2055 T. NEILL J. NEILL	HEATED	1 605	-	-	-	1983 - - 1984 - 1 000 1985 - 1 000 1986 - 1 000	PAPPT 408	BS 100%
PRIVATE	LA MAISON VERTE, BOX 1868 HEARST, ONT., P0L 1N0 705-362-7040 M. LAMY	HEATED	1 906	-	-	-	1983 - 2 000 1984 - 2 000 1985 - 2 000 1986 - 2 000	PAPPT 408	BS 100%
PRIVATE	LAFLEUR GARDENS LTD., R.R. 2 TIMMINS, ONT., P4N 7C3 705-267-2972 R. LAFLEUR	HEATED	2 185	-	-	1 750	1983 - 6 794 1984 - 6 794 1985 - 6 794 1986 - 6 794	PAPPT 408	JP 50%
PRIVATE	LAVA MOUNTAIN LTD., BOX 10, RAMORE, ONT., POK 1R0 705-236-4286 D.E. BOOTHE	HEATED	2 984	-	-	-	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	PAPPT 408	BS 100%

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PROVINCE OF ONTARIO  
CONTAINER STOCK PRODUCTION CENTRES

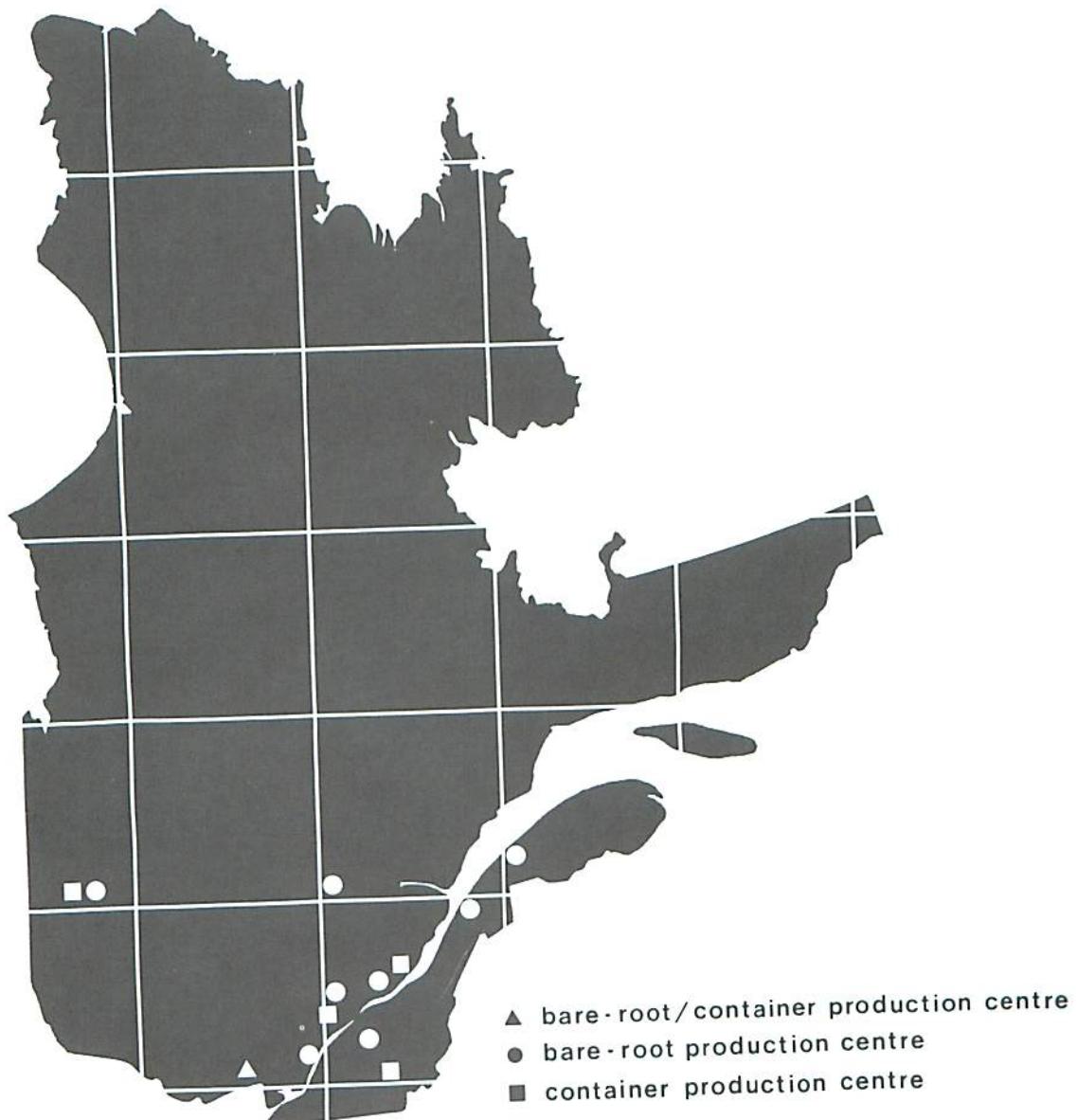
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981 ('000 TREES)	1982			
PRIVATE	M. KEAN RESOURCES, 624 CEDAR ST. NORTH, TIMMINS, ONT., P4N 6K4 705-264-2049/8634 M. KEAN	HEATED	401	-	-	-	1983 - 400 1984 - 400 1985 - 400 1986 - 400	PAPPT 408	JP 100%
PRIVATE	MILLSON FORESTRY SERVICE, R.R. 1, TIMMINS, ONT., P4N 7C2 705-232-4836 D. MILLSON	HEATED	1 605	-	-	498	1983 - 405 1984 - 405 1985 - 405 1986 - 405	PAPPT 408	JP 100%
PRIVATE	NORTH GRO DEVELOPMENT LTD., 75 GOVERNMENT ROAD WEST, KIRKLAND LAKE, ONT., P2N 2E6 705-567-5646 A.S. AIDELBAUM	HEATED	2 890	-	-	-	1983 - 1 693 1984 - 1 935 1985 - 1 935 1986 - 1 935	PAPPT 408	BS 100%
PRIVATE	NORTHERN GREENHOUSE FARMS LTD., BOX 1160, TIMMINS, ONT., P4N 5X4 705-264-9521 R.J. DELUCE	HEATED	2 669	-	-	-	1983 - 3 568 1984 - 3 568 1985 - 3 568 1986 - 3 568	PAPPT 408	BS JP 50% 50%
PRIVATE	RIVERSIDE NURSERY, (*) R.R. 2, DEVLIN, ONT., POW 1C0 807-486-3421 N. MUTZ	HEATED	371	-	-	407	1983 - 1984 - 1985 - 1986 -	SP/LE 6	JP 100%
(*) NOT CONTRACTED FOR 1983 - 1986.									
PRIVATE	TAMARAC NURSERIES, R.R. 2, DRYDEN, ONT., PBN 2Y5 807-937-6621 D. LICK S. LICK D. LICK	HEATED	722	-	-	598	1983 - 1 200 1984 - 1 200 1985 - 1 200 1986 - 1 200	SP/LE 6	JP BS 50% 50%
PRIVATE	WALSH NURSERY LTD., KEMPTVILLE, ONT., KOG 1J0 613-258-2383 I. WALSH	HEATED UNHEATED	280 280	-	-	400	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 1	EWP 100%
PRIVATE	WELLAIR CONCEPTS INC., BOX 339, EAR FALLS, ONT., POV 1T0 204-489-2604 F. WIESINGER	HEATED	1 649	-	-	984	1983 - 3 150 1984 - 3 150 1985 - 3 150 1986 - 3 150	SP/LE 6	JP BS 50% 50%

PROVINCE OF ONTARIO  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1981	1982				
PROVINCE	DRYDEN TREE NURSERY, BOX 90, WABIGOON, ONT., POV 2W0 807-938-6326 T. MYLAND	HEATED	2 233	4 000	4 000	4 251	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	SP/LE 6	BS JP 86% 14%
PROVINCE	G. HOWARD FERGUSON FOREST STN., MINISTRY OF NATURAL RESOURCES, R.R. 4 KEMPTVILLE, ONT., K0G 1G0 613-258-3413 A.J. CAMPBELL	HEATED UNHEATED SHELTERHOUSE	900 300 1 200	350	400	400	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 1	EWP L 63% RP OCON 28% 5% 4%
PROVINCE	SWASTIKA FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 129 SWASTIKA, ONT., POK 1T0 705-642-3255 L.J. FORCIER	HEATED	4 250	4 503	4 948	4 494	1983 - 6 000 1984 - 6 000 1985 - 6 000 1986 - 6 000	PAPPT 308, BS 408	100%
PROVINCE	THESSALON NURSERY MINISTRY OF NATURAL RESOURCES, BOX 310 THESSALON, ONT., POK 1L0 705-842-3914 I.E. SEABROOK	HEATED UNHEATED SHADE HOUSES	1 552 2 900 4 783	2 285	3 120	2 845	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	PAPPT 408	JP EWP 80% RP 10% 10%
PROVINCE	THUNDER BAY FOREST STATION, R.R. 1, THUNDER BAY, ONT., P7C 4T9 807-939-2558 R. KLAAPPRAAT	HEATED	1 403	400	960	1 159	1983 - 2 500 1984 - 2 500 1985 - 2 500 1986 - 2 500	SP/LE 6	BS JP 50% 50%

CONTAINER TYPES: SP/LE = SPENCER-LEMAIRE "ROOTRAINERS"; PAPPT = PAPERPOT; MULTI = CAN-AM MULTIPOT.

# Quebec



## PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	9	5
Area available for production	283.5 ha	10 999 m <sup>2</sup>
Area currently in production	249.9 ha	-
1982 Shippable production ('000)	34 604	5 718
1983 Targeted production ('000)	62 549	13 318

PROVINCE OF QUEBEC  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
INDUSTRY	COMPAGNIE INTERNATIONAL DE PAPIER DU CANADA, HARRINGTON, QUE., J0V 1J0 819-242-6066 M. RICHARD	4.7	3.1	1 300	470	585	600	1983 - 525 1984 - 525 1985 - 525 1986 - 525	JP 60% RP 31% NS 9%
PROVINCE	BERTHIERVILLE PEPINIÈRE FORESTIERE MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES, C.P. 540, BERTHIERVILLE, QUE., J0K 1A0 514-836-3788 J.P. CAMPAGNA	40(*)	40	6 000	6 012	4 252	7 623	1983 - 8 000 1984 - 8 000 1985 - 8 000 1986 - 8 000	JP 35% BF 19% WS 12% BS 9% SP 9% L 5% RP 5% OCON 6%
PROVINCE	DUCHESNAY PEPINIÈRE FORESTIERE MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES, DUCHESNAY, QUE., GOA 3M0 418-875-1352 P. MARINEAU	15	11.4	6 000	1 420	1 205	2 100	1983 - 4 650 1984 - 4 650 1985 - 4 650 1986 - 4 650	NS 33% WS 30% RS 29% BS 4% BF 4%
PROVINCE	GRANDES-PILES PEPINIÈRE FORESTIERE MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES, GRANDES-PILES, QUE., GOX 1H0 819-538-2055 J.M. FORTIN	47	36	9 000	5 255	2 825	2 285	1983 - 7 650 1984 - 7 650 1985 - 7 650 1986 - 7 650	RS 60% JP 38% OCON 2%
PROVINCE	NORMANDIN PEPINIÈRE FORESTIERE MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES, NORMANDIN, QUE., GOW 2E0 418-274-2420 J. TREMBLAY	32.3	32.3	9 200	1 717	2 051	1 372	1983 - 7 200 1984 - 7 200 1985 - 7 200 1986 - 7 200	BS 49% WS 25% JP 24% OCON 2%
PROVINCE	STE-LUCE PEPINIÈRE FORESTIERE MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES, C.P. 100 LUCÉVILLE, QUE., GOX 1E0 418-739-4819 R. HENLEY	60	60	15 400	5 075	10 983	9 084	1983 - 14 050 1984 - 14 050 1985 - 14 050 1986 - 14 050	BS 66% WS 28% NS 3% RP 2% EWP 1%

PROVINCE OF QUEBEC  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
PROVINCE	ST-MODESTE PEPINIERE FORESTIERE, MINISTERE DE L'ENERGIE ET DES RESSOURCES, ST-MODESTE, QUÉ., GOL 3W0 418-862-5511 L. GODBOUT	34(**)	34	11 000	7 857	10 773	9 919	1983 - 11 918 1984 - 11 918 1985 - 11 918 1986 - 11 918	BS 54% NS 22% WS 9% JP 5% RP 4% BF 3% L 2% SP 1%
PROVINCE	TRECESSON PEPINIERE FORESTIERE, MINISTERE DE L'ENERGIE ET DES RESSOURCES, C.P. 368 AMOS, QUÉ., J9T 3A7 819-732-9349 A. ROY	43.4	26	10 500	1 549	1 427	559	1983 - 7 450 1984 - 7 450 1985 - 7 450 1986 - 7 450	JP 96% BS 2% WS 1% L 1%
PROVINCE	VICTORIAVILLE PEPINIERE FORESTIERE, MINISTERE DE L'ENERGIE ET DES RESSOURCES, 505 RUE CARTIER, VICTORIAVILLE, QUÉ., G6P 6R8 819-752-9754 E. PROVENCHER	7.1	7.1	1 800	934	446	1 062	1983 - 1 106 1984 - 1 106 1985 - 1 106 1986 - 1 106	BF 100%

(\*) 72 HA. PURCHASE CURRENTLY BEING NEGOTIATED.

(\*\*) 40 HA. PURCHASE CURRENTLY BEING NEGOTIATED.

NOTE: THREE PRIVATE NURSERIES ARE TO BEGIN PRODUCING BAREROOT STOCK: FOR-ESTRIE(1984), BECHEDOR, PLANFOR(1985).

PROVINCE OF QUEBEC  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES ( '000 TREES)			PLANNED PRODUCTION 1983-1986 ( '000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981	1982			
INDUSTRY	CIE INTERNATIONAL DE PAPIER DU CANADA, HARRINGTON, QUE., J0V 1J0 819-242-6066 M. RICHARD	HEATED	1 058	915	1 420	2 340	1983 - 2 500 1984 - 2 500 1985 - 2 500 1986 - 2 500	MULTI 2 STYRO 2A	JP BS 74% 26%
INDUSTRY	CONSOLIDATED-BATHURST INC., C.P. 500, GRAND'MERE, QUE., G9T 5L2 819-538-3341 J. CONWAY	HEATED	230	320	320	320	1983 - 275 1984 - 275 1985 - 275 1986 - 275	PAPPT 408	BS 70% JP 14% SP 8% NS 8%
PRIVATE	LES SERRES DE GUYENNE INC. GUYENNE, QUE., JOY 1L0 819-746-3121 F. MIRON	HEATED	3 438	-	341	2 687	1983 - 3 125 1984 - 3 125 1985 - 3 125 1986 - 3 125	STYRO	BS 66% JP 34%
PRIVATE	CENTRE DE PRODUCTION DE PLANTS FORESTIERS DE QUEBEC INC., 239A COTE STE-ANNE STE-ANNE DE BEAUPRE', QUE., GOA 3C0 418-827-4696 R. GOHIER	HEATED	-	-	-	-	1983 - - 1984 - 2 200 67 1985 - - 1986 - -	IPLCO 45, IPLCO	RS 30% BS 25% NS 15% JP 10% WS 5% EWP 5% RP 5% L 5%
PROVINCE	LE CENTRE DE CULTURE PLANTES RECIPIENTS MINISTERE DE L'ENERGIE ET DES RESSOURCES, C.P. 819 EAST ANGUS, QUE., J0B 1R0 819-832-3431 C. CARRIER	HEATED	6 273	-	2 854	371	1983 - 7 418 1984 - 7 418 1985 - 7 418 1986 - 7 418	MERQU IPLCO	BS 100%

CONTAINER TYPES: MERQU = QUEBEC TUBE; IPLCO = IPL CONTAINER; MULTI = CAN-AM MULTIPOT; STYRO = BC/CFS STYROBLOCK; PAPPT = PAPER POT.  
 NOTE: FIVE PROVINCIAL NURSERIES ARE PLANNING TO PRODUCE OUTDOOR-GROWN CONTAINER STOCK. PRODUCTION FOR 1985 WILL BE 3 MILLION AND  
 FOR 1986 PRODUCTION WILL BE AN ADDITIONAL 7 MILLION.

# New Brunswick

- ▲ bare-root/container production centre
- bare-root production centre
- container production centre



PROVINCIAL SUMMARY	bare-root	container
Number of production centres	3	9
Area available for production	128 ha	27 164 m <sup>2</sup>
Area currently in production	91.5 ha	-
1982 Shippable production ('000)	20 550	27 363
1983 Targeted production ('000)	15 120	37 305

PROVINCE OF NEW BRUNSWICK  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN	
					1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)			
INDUSTRY	J.D. IRVING LTD., BOX 150, JUNIPER, N.B., EOJ 1P0 506-246-5268 M. DIONNE J. BEYELER	100	65	15 000	11 840	9 445	10 250	1983 - 10 000 1984 - 10 000 1985 - 10 000 1986 - 10 000	BS WS JP RP EL EWP	50% 25% 15% 15% 2%
INDUSTRY	J.D. IRVING LTD., R.R. 4, SUSSEX, N.B., EOE 1P0 506-433-4253/5844 H. KUNZE	2	.5	2 000	-	576	-	1983 - 120 1984 - 200 1985 - 1986 -	JP RP L	40% 40% 20%
PROVINCE	PROVINCIAL FOREST NURSERY, N.B. NATURAL RESOURCES, R.R. 6 FREDERICTON, N.B., E3B 4X7 506-455-6989 P.A. CLARK N.H. KREIBERG	26	26	7 000	10 500	6 700	10 300	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	BS RP WS HF JP	55% 15% 10% 10%

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PROVINCE OF NEW BRUNSWICK  
CONTAINER STOCK PRODUCTION CENTRES

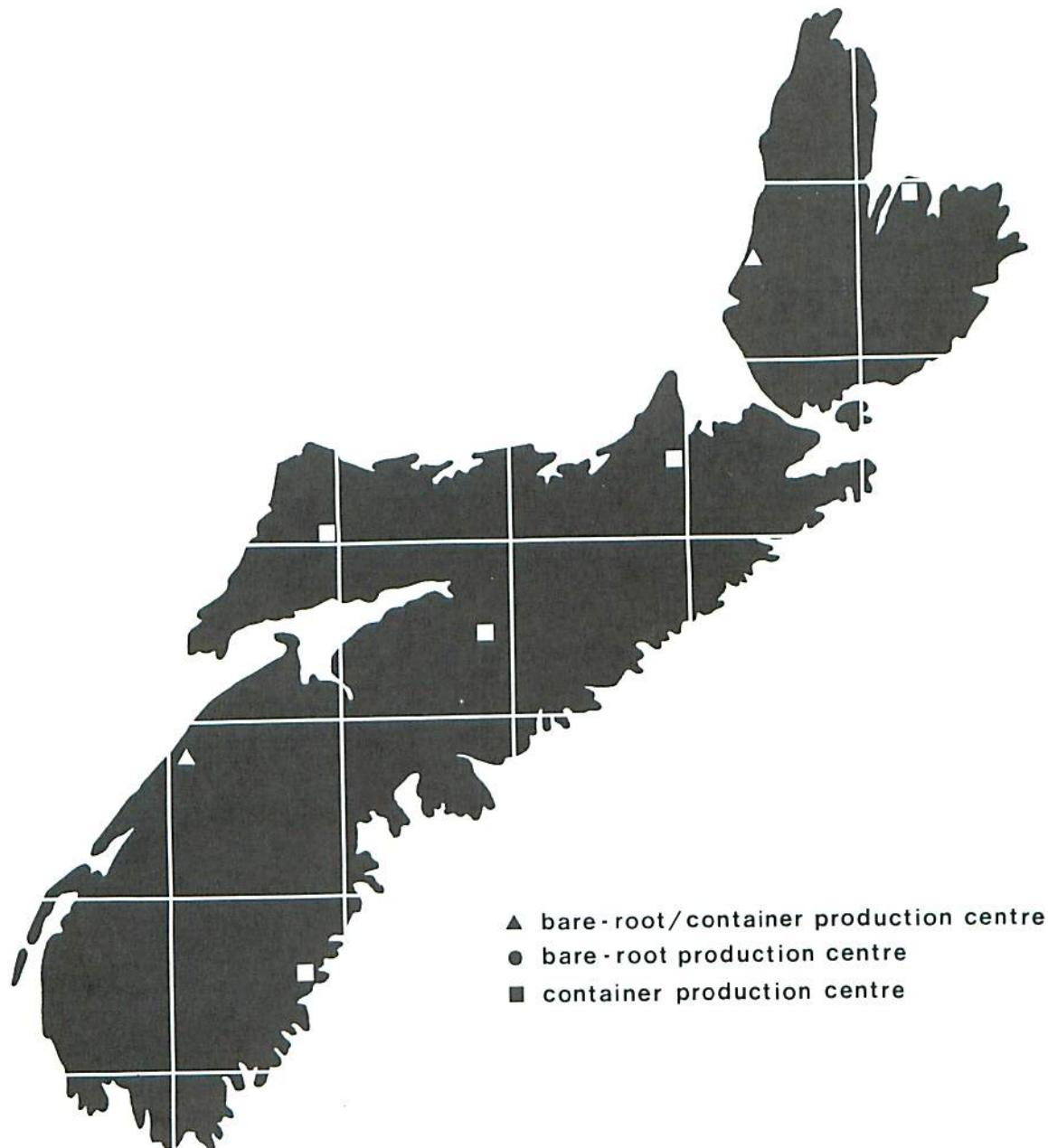
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 1981 ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN	
				1980	1981	1982				
INDUSTRY	FRASER INC., FOREST TREE NURSERY, R.R. # 1, ST. JOSEPH-DE-MADAWASKA, N.B., E0L 1L0 506-739-9092 E. DESCHESNES	UNHEATED SHADED UNSHADED	3 600 7 200 10 800	6 500	6 400	6 100	1983 - 7 500 1984 - 7 500 1985 - 7 500 1986 - 7 500	MULTI 1	BS WS	90% 10%
INDUSTRY	GEORGIA-PACIFIC CORP., R.R. 4, ST. STÉPHEN, N.B., E3L 2Y2 506-466-2770 B. FRASER	HEATED OPEN HOLDING	1 000 1 700	1 200	1 200	700	1983 - 750 1984 - 750 1985 - 750 1986 - 750	STYRO 2,4	L BS JP	44% 28% 28%
INDUSTRY	J.D. IRVING LTD., JUNIPER TREE NURSERY, BOX 150, JUNIPER, N.B. E0J 1P0 506-246-5268 M. DIONNE J. BEYLER	HEATED UNHEATED OPEN HOLDING	1 100 1 100 4 360	920	1 318	1 817	1983 - 2 000 1984 - 2 000 1985 - 2 000 1986 - 2 000	STYRO 4,8 MULTI 2	JP BS L	90% 5% 5%
INDUSTRY	J.D. IRVING LTD., R.R. 4, SUSSEX, N.B., E0E 1P0 506-433-4253/5844 H. KUNZE	HEATED SHELTERHOUSE OPEN HOLDING	1 000 3 100 10 000	666	1 703	1 566	1983 - 1 055 1984 - 1 356 1985 - 1 500 1986 - 2 000	STYRO 4,8 MULTI 2 RIGIP 110	JP BS L	90% 5% 5%
INDUSTRY	NBIP LTD., BOX 1950, DALHOUSIE, N.B., E0K 1B0 506-684-5228 E. GOGUEN	HEATED SHADE AREA	1 000 1 700	2 248	1 923	1 550	1983 - 1984 - 1985 - 1986 -	STYRO 2A, 4 MULTI 2	BS JP RS WS X	74% 11% 9% 4% 2%
INDUSTRY	VALLEY FOREST PRODUCTS, BOX 1000, NACKAWIC, N.B., E0H 1P0 506-455-8821 B. HIGGS	HEATED OPEN HOLDING	640 300	500	500	500	1983 - 500 1984 - 500 1985 - 500 1986 - 500	MULTI 2	JP	100%
PROVINCE	KENT FOREST NURSERY, N.B. NATURAL RESOURCES, BOX 69 BUCTOUCHE, N.B., E0A 1G0 506-955-3556 W. CORMIER	HEATED HOLDING (WITH WINDBREAK)	2 652 1 490	5 000	7 700	5 230	1983 - 5 000 1984 - 7 500 1985 - 7 500 1986 - 7 500	PAPPT 408	JP BS	50% 50%

PROVINCE OF NEW BRUNSWICK  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
				1980	1981	1982			
PROVINCE	MADRAN FOREST NURSERY, N.B. NATURAL RESOURCES, BOX 170 BATHURST, N.B., E2A 3Z2 506-783-7235 V. CARRIER	HEATED HOLDING (WITH WINDBREAK)	2 652 3 600	5 000	6 000	5 900	1983 - 7 500 1984 - 6 000 1985 - 6 000 1986 - 6 000	PAPPT 408	JP BS 50% 50%
PROVINCE	PROVINCIAL FOREST NURSERY, N.B. NATURAL RESOURCES, R.R. 6 FREDERICTON, N.B., E3B 4X7 506-455-6989 P.A. CLARK N.H. KREIBERG	HEATED UNHEATED OPEN HOLDING HOLDING (WITH WINDBREAK)	6 420 6 000 12 100 18 500	7 000	6 300	4 000	1983 - 13 000 1984 - 13 000 1985 - 13 000 1986 - 13 000	PAPPT 408 MULTI 3 STYRO	JP BS 50% 50%

CONTAINER TYPE: MULTI = CAN-AM MULTIPOT; STYRO = BC/CFS STYROBLOCK; RIGIP = RIGIPOT; PAPPT = PAPERPOt.

# Nova Scotia



PROVINCIAL SUMMARY	bare-root	container
Number of production centres	2	7
Area available for production	72 ha	18 624 m <sup>2</sup>
Area currently in production	51 ha	-
1982 Shippable production ('000)	4 100	9 650
1983 Targeted production ('000)	5 000	9 591

PROVINCE OF NOVA SCOTIA  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
PROVINCE	PROVINCIAL FOREST NURSERY, N.S. LANDS & FORESTS, BOX 130, LAWRENCE TOWN, N.S., BOS 1MO 902-584-2234 R. MINARD	27	27	8 000	2 700	6 500	4 100	1983 - 3 500 1984 - 3 500 1985 - 3 500 1986 - 3 500	RP 28% RS 28% BF 14% NS 11% WS 9% BS 7% JP 3%
PROVINCE	STRATHLORNE FOREST NURSERY, N.S. LANDS & FORESTS, BOX 489, INVERNESS, N.S., BOE 1NO 902-258-2626 B.F. WHITE	45	24	5 000	-	-	-	1983 - 1 500 1984 - 1 500 1985 - 1 500 1986 - 1 500	BS 50% WS 25% RP 15% EWP 10%

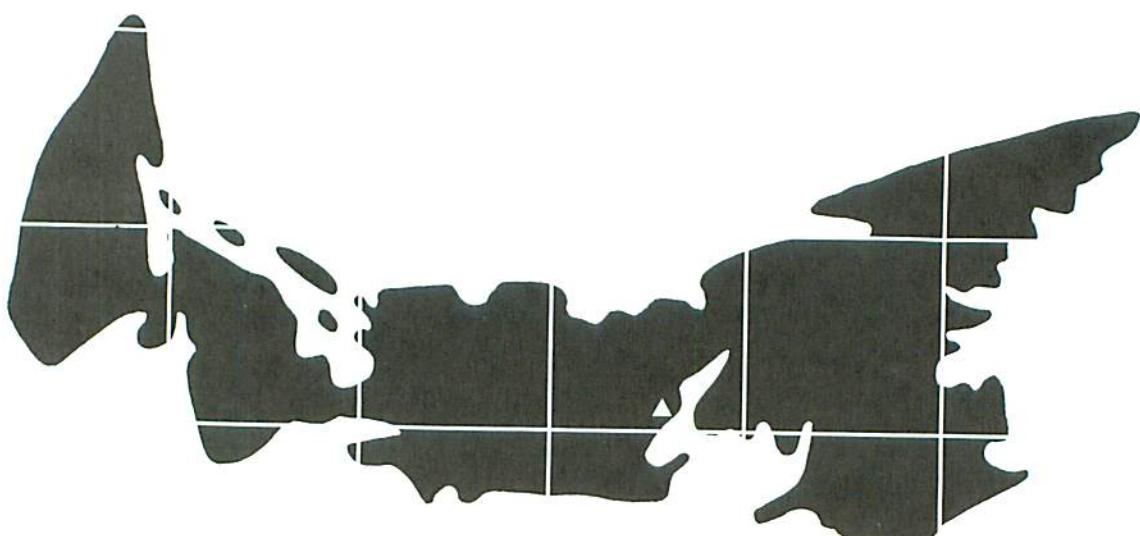
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PROVINCE OF NOVA SCOTIA  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN	
				1980	1981	1982				
FEDERAL	SPRINGHILL TREE NURSERY, CORRECTION SERVICE, CANADA, BOX 2140, SPRINGHILL, N.S., B0M 1X0 902-597-3755 (EXT. 324) P. BOURQUE	HEATED UNHEATED OPEN HOLDING	1 712 1 784 16 000	908	2 123	2 104	1983 - 1 561 1984 - 2 634 1985 - 3 125 1986 - N/A	MULTI 2 NISUL	BS WS RS RP BS	30% 25% 20% 15% 10%
INDUSTRY	BOWATER MERSEY PAPER CO. LTD., BOX 1150, LIVERPOOL, N.S., B0T 1K0 902-354-5962 W. JOURNEY	HEATED SHELTERHOUSE OPEN HOLDING	500 500 250	30	450	450	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 2	RS	100%
PRIVATE	MORRISON'S GREENHOUSES, R.R. 1, BRAS D'OR, N.S., B0C 1B0 902-736-9371 L. MORRISON	HEATED UNHEATED OPEN HOLDING	1 395 1 395 4 600	1 905	1 910	1 930	1983 - 1 930 1984 - 1 930 1985 - 1 930 1986 - 1 930	MULTI 2	BS BF	98% 2%
PRIVATE	WESTENENK'S FOREST NURSERY, R.R. 1, ST. ANDREW'S, N.S., B0H 1X0 902-863-3588 G. WESTENENK	UNHEATED OPEN HOLDING	2 403 4 806	2 000	2 000	2 000	1983 - 2 000 1984 - 2 000 1985 - 2 000 1986 - 2 000	MULTI 2	BS NS RP BF	70% 10% 10% 10%
PROVINCE	PROVINCIAL FOREST NURSERY, N.S. LANDS & FORESTS, BOX 130, LAWRENCETON, N.S., B0S 1M0 902-584-2234 R. MINARD	HEATED UNHEATED OPEN HOLDING	620 270 10 000	100	100	500	1983 - 700 1984 - 700 1985 - 700 1986 - 700	MULTI 2	BS BF	50% 50%
PROVINCE	STRATHLORNE FOREST NURSERY, N.S. LANDS & FORESTS, BOX 489, INVERNESS, N.S., B0E 1N0 902-258-2626 B.F. WHITE	HEATED OPEN HOLDING	4 700 10 000	-	-	-	1983 - 1 100 1984 - 1 600 1985 - 1986 -	MULTI 2	BS WS	50% 50%
PROVINCE	WITTENBURG FOREST NURSERY, N.S. LANDS & FORESTS, BOX 250, STEWIACKE, N.S., B0N 2J0 902-378-2152 L. PETERS	HEATED UNHEATED OPEN HOLDING	2 445 1 400 10 000	1 000	500	2 666	1983 - 1 700 1984 - 1 500 1985 - 5 000 1986 - 5 000	MULTI 2	BS	100%

CONTAINER TYPES: MULTI = CAN-AM MULTIPOT; NISUL = NISULA ROLL

# Prince Edward Island



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY	bare-root	container
Number of production centres	1	1
Area available for production	20 ha	3 717 m <sup>2</sup>
Area currently in production	2 ha	-
1982 Shippable production ('000)	176	1 633
1983 Targeted production ('000)	400	1 000

PROVINCE OF PRINCE EDWARD ISLAND  
BARE-ROOT PRODUCTION CENTRES

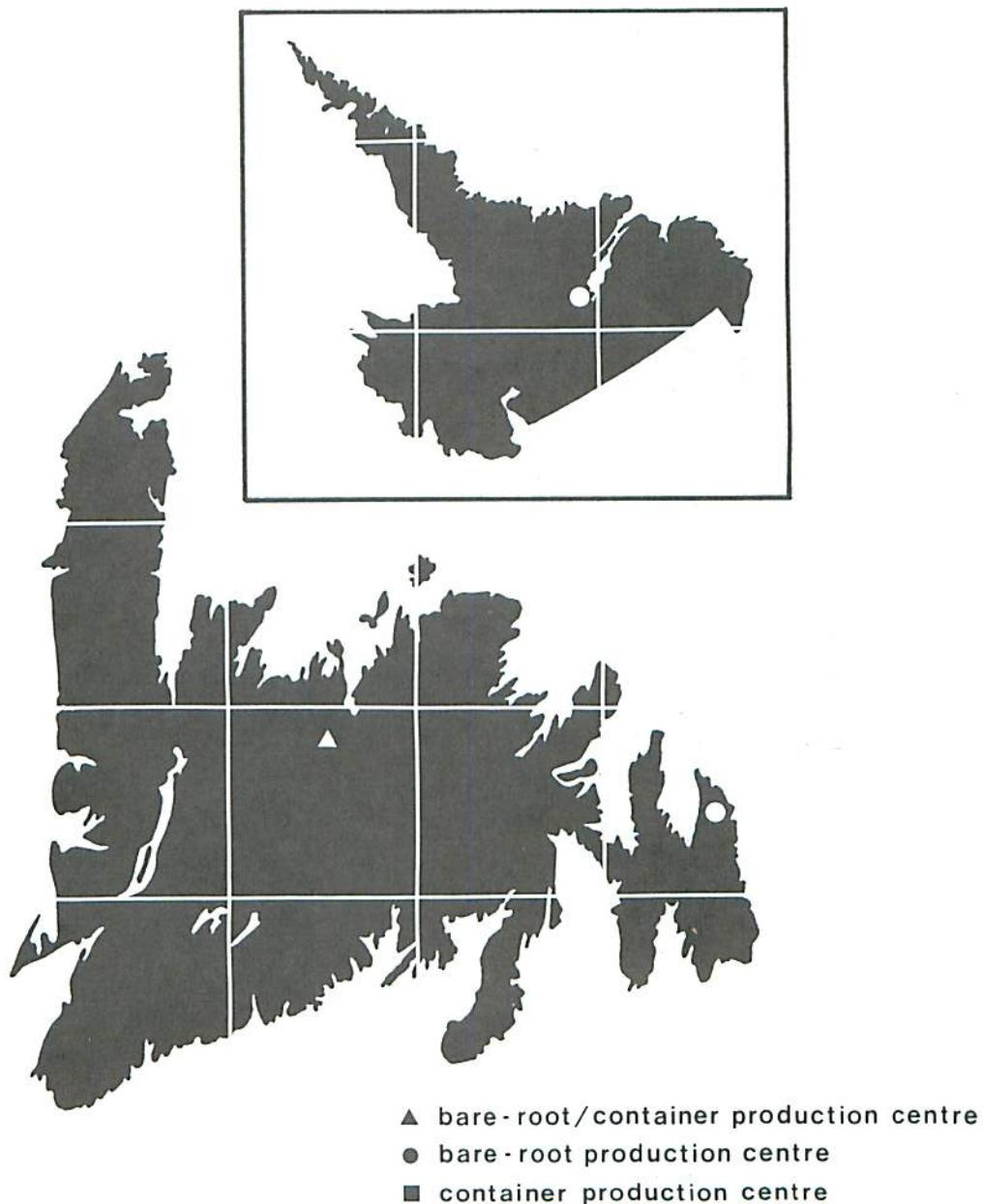
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
PROVINCE	J.F. GAUDET FOREST NURSERY, P.E.I. ENERGY & FORESTRY, BOX 2000, CHARLOTTETOWN, P.E.I., C1A 7NB 902-892-0228 W. BUTLER	20	2	5 000	-	60	176	1983 - 400 RP 45% 1984 - 400 BS 35% 1985 - 400 WS 9% 1986 - 400 BF 9% PO 2%	

PROVINCE OF PRINCE EDWARD ISLAND  
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN	
				1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)				
PROVINCE	J.F. GAUDET FOREST NURSERY, P.E.I. ENERGY & FORESTRY, BOX 2000, CHARLOTTETOWN, P.E.I., C1A 7N8 902-892-0228 W. BUTLER	HEATED SHADE AREA	3 717 4 200	1 135	1 153	1 633	1983 - 1 000 1984 - 1 000 1985 - 1 000 1986 - 1 000	SP/LE 5,6 MULTI 3	BS WS JP EL	37% 24% 31% 8%

CONTAINER TYPES: SP/LE = SPENCER-LEMAIRE "ROOTRAINERS"; MULTI = CAN-AM MULTIPOT.

# Newfoundland



## PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	1	3
Area available for production	40 ha	3 204 m <sup>2</sup>
Area currently in production	40 ha	-
1982 Shippable production ('000)	2 243	1 627
1983 Targeted production ('000)	2 300	3 800

PROVINCE OF NEWFOUNDLAND  
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED			PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
					1980	1981	1982		
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 616, GRAND FALLS, NFLD., A0H 1C0 709-489-3012 T. McDONOUGH	40	40	9 000	151	1 165	2 243	1983 - 2 300 1984 - 3 800 1985 - 9 000 1986 - 9 000	BS 100%

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PROVINCE OF NEWFOUNDLAND  
CONTAINER STOCK PRODUCTION CENTRES

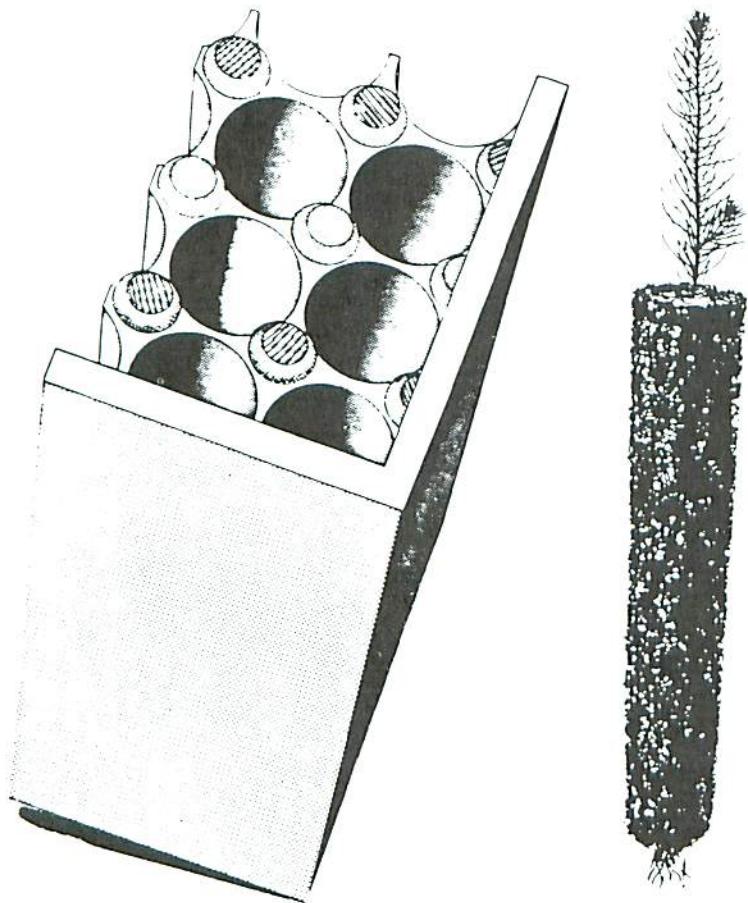
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980      1981      1982 ('000 TREES)			PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN	
				1980	1981	1982				
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 370 GOOSE BAY, NFLD., AOP 1C0 709-896-3405 B. ROBERTS	HEATED	350	155	152	150	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 1	BS WS	50% 50%
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 616 GRAND FALLS, NFLD., AOH 1C0 709-489-3012 T. McDONOUGH	HEATED	2 296	470	944	1 277	1983 - 3 000 1984 - 3 000 1985 - 3 000 1986 - 3 000	SP/LE 5	BS	100%
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 127 MT. PEARL, NFLD., AIN 2C2 709-368-8334 N. BENSON	HEATED	558	200	200	200	1983 - 200 1984 - 200 1985 - 200 1986 - 200	MULTI 1	WS	100%

CONTAINER TYPES: MULTI = CAN-AM MULTIPOT; SP/LE = SPENCER-LEMAIRE "ROOTRAINERS"

## **APPENDICES**

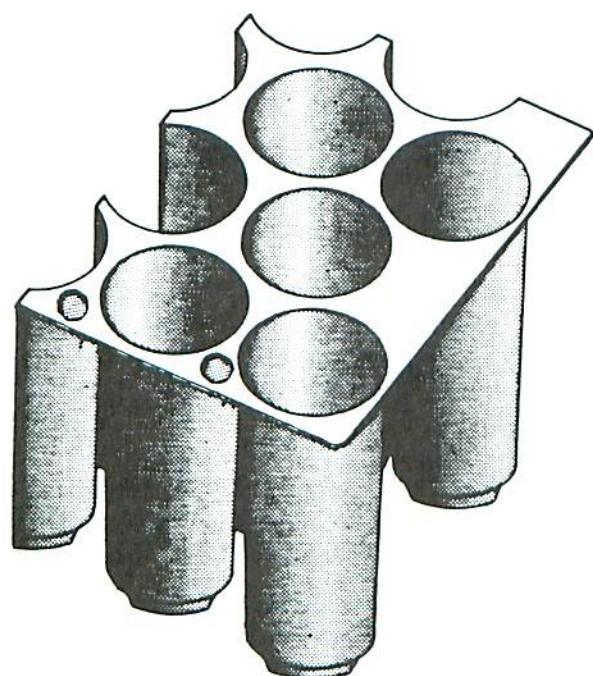
## APPENDIX 1

### MAJOR CONTAINER TYPES USED IN THE PRODUCTION OF FOREST TREE SEEDLINGS IN CANADA



BC/CFS STYROBLOCK (STYRO)

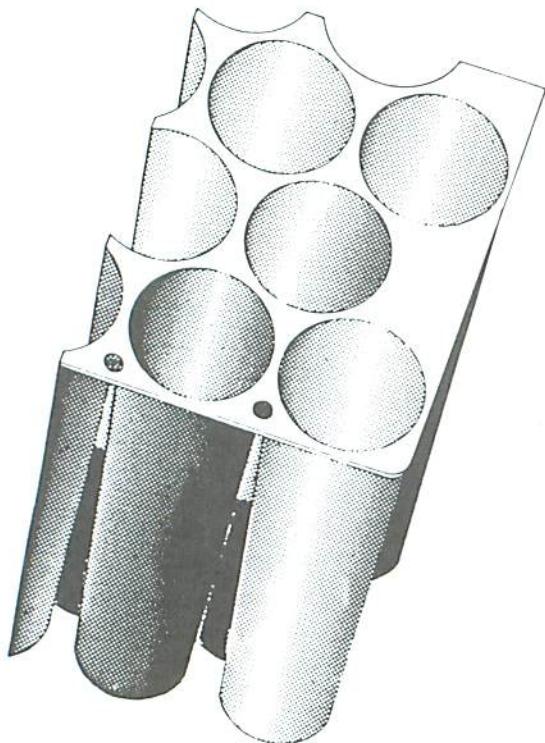
The BC/CFS Styroblock is a rectangular block, molded from expanded polystyrene beads, with round, tapered cavities and ribs to control root spiraling. A variety of sizes is available. The increasingly popular Styroblock 4 has 160 cavities, each with an approximate volume of  $60 \text{ cm}^3$  (4 cu in.). Cavities are 4.9 cm (2 in.) in diameter at the top and are 12.5 cm (5 in.) in depth. The blocks are 60 x 35 cm (24 x 14 in.).



CAN-AM MULTIPOTS (MULTI)

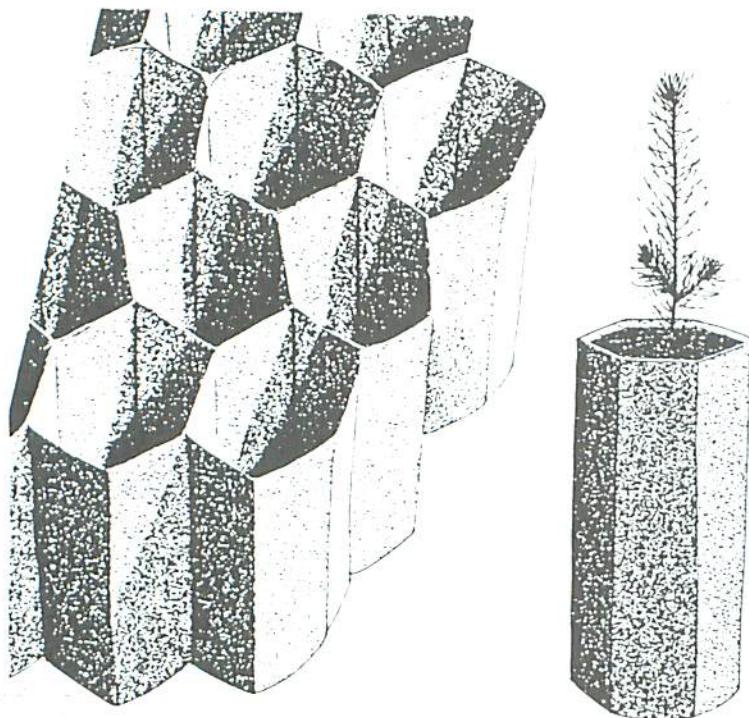
The Can-Am Multipot consists of a durable molded plastic tray available in a variety of sizes. The cavities are slightly tapered and have ribs to control root spiraling. The Multi-Pot #2 which is gaining wider acceptance has 67 cavities, each with a plug volume of  $65 \text{ cm}^3$  (4 cu in.). The tray size is 355 x 222 x 120 mm (14 x 8.75 x 4.75 in.).

APPENDIX 1 (continued)



IPL CONTAINERS (IPLCO)

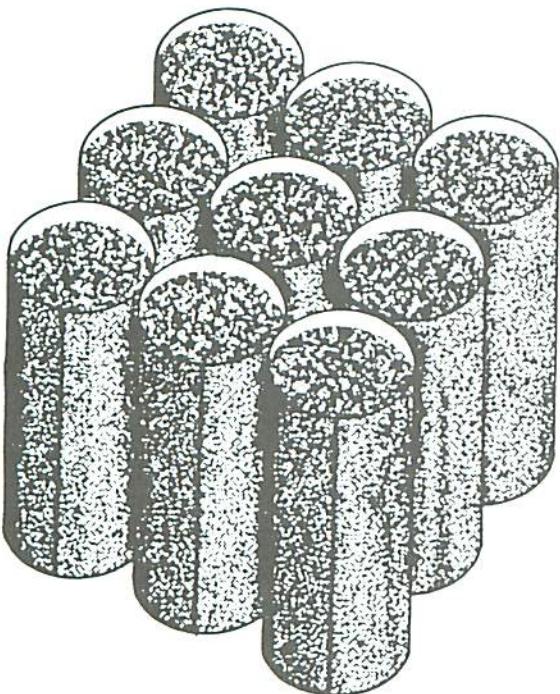
The IPL Rigi-Pots consist of multi-cavity trays of high-density polyethylene. In widest use is the 67-50 model which has 67 cavities, each with a plug volume of 55 cm<sup>3</sup> (3.4 cu in.) and overall dimensions of 354 x 218 x 89 mm (14 x 8.6 x 3.5 in.).



JAPANESE PAPERPOTS (PAPPT)

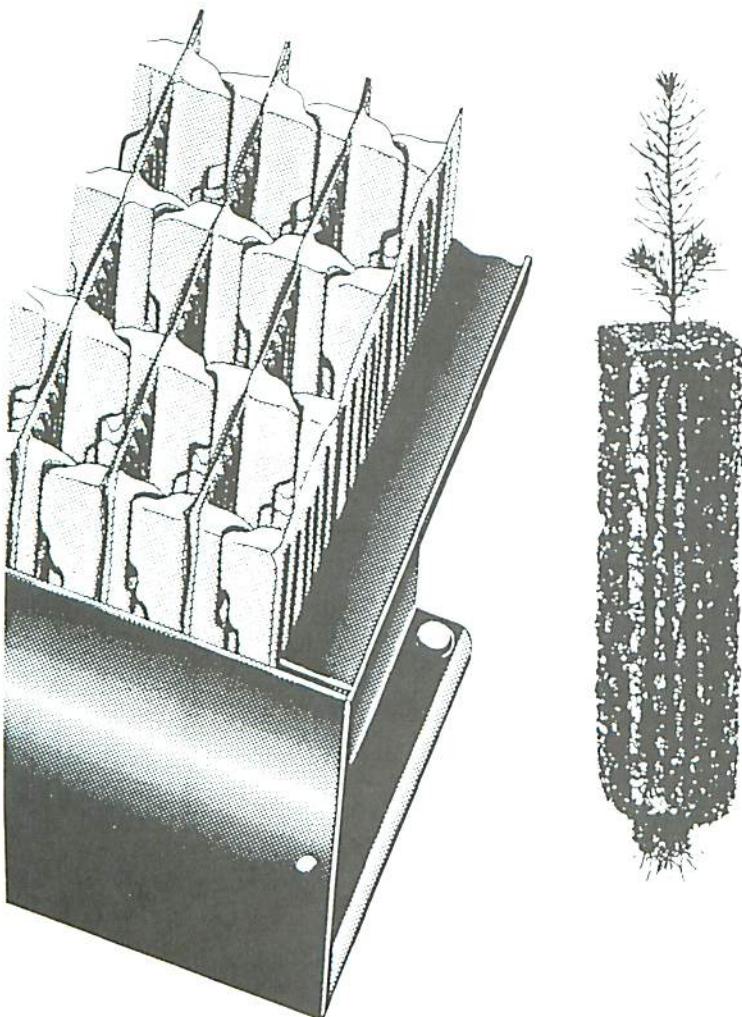
The biodegradable Japanese paperpot container is made from pulp and various quantities of the artificial fibre Vynylon. The breakdown time of the paper is determined by the percentage of the artificial fibre content. A water-insoluble glue bonds individual tubes which are laterally attached with a water-soluble adhesive to produce the characteristic "honeycomb" sets. Sets are available in a wide variety of sizes. The popular '408' set opens to fit a tray 35 x 94 cm (14 x 37 in.) and contains 336 cavities, each with a volume of 70 cm<sup>3</sup> (4.2 cu in.).

APPENDIX 1 (concluded)



QUEBEC TUBES (MERQU)

This system, recently developed by the Ministère de l'Energie et des Ressources du Québec, has containers wrapped with ordinary paper over a thin internal layer of polyethylene. The containers, packed into sets of 48, have a volume capacity of 115 cm<sup>3</sup> (7 cu in.). Research is continuing to develop a paper with improved biodegradeable properties.



SPENCER-LEMAIRE ROOTTRAINERS (SP/LE)

The Spencer-Lemaire system produces several plug seedlings in a heat-molded plastic "book", the sides of which are ribbed to prevent root spiraling. The more popular "Ferdinand" tray size contains 17 "books", each with 6 cavities and an individual volume of 40 cm<sup>3</sup> (2.4 cu in.). The overall tray size is 22 x 37 cm (8.7 in. x 14.6 in.). A variety of suitable sizes is available.

APPENDIX 2

MAJOR TREE SPECIES REARED IN CANADA'S FOREST TREE NURSERIES

Common name	Botanical name	Symbol
CONIFEROUS SPECIES		CON
Pine	<i>Pinus</i> L.	P
Eastern white pine	<i>Pinus strobus</i> L.	EWP
Red pine	<i>Pinus resinosa</i> Ait.	RP
Jack pine	<i>Pinus banksiana</i> Lamb.	JP
Lodgepole pine	<i>Pinus contorta</i> Dougl.	LP
Scots pine	<i>Pinus sylvestris</i> L.	SP
Larch	<i>Larix</i> Mill.	L
Western larch	<i>Larix occidentalis</i> Nutt.	WL
European larch	<i>Larix decidua</i> Mill.	EL
Spruce	<i>Picea</i> A. Dietr.	S
White spruce	<i>Picea glauca</i> (Moench) Voss	WS
Engelmann spruce	<i>Picea engelmannii</i> Parry	ES
Red spruce	<i>Picea rubens</i> Sarg.	RS
Black spruce	<i>Picea mariana</i> (Mill.) B.S.P.	BS
Norway spruce	<i>Picea abies</i> (L.) Karst.	NS
Hemlock	<i>Tsuga</i> (Endl.) Carr.	H
Western hemlock	<i>Tsuga heterophylla</i> (Raf.) Sarg.	WH
Douglas-fir	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	DF
Fir	<i>Abies</i> Mill.	F
Balsam fir	<i>Abies balsamea</i> (L.) Mill.	BF
Amabilis fir	<i>Abies amabilis</i> (Dougl.) Forbes	AF
Arbor-vitae	<i>Thuja</i> L.	C
Eastern white cedar	<i>Thuja occidentalis</i> L.	EWC
Western red cedar	<i>Thuja plicata</i> Donn	WRC
OTHER CONIFEROUS SPECIES		OCON
DECIDUOUS SPECIES		DEC
Poplar	<i>Populus</i> L.	PO
Black walnut	<i>Juglans nigra</i> L.	WA
OTHER DECIDUOUS SPECIES		ODEC
MISCELLANEOUS SPECIES		X

Source: Bonnor, G.M. 1978. A guide to Canadian forest inventory terminology and usage. Dep. Environ., Can. For. Serv., Ottawa, Ont. 2nd ed.