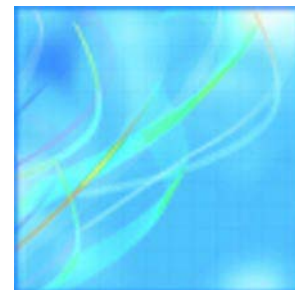


Catalogue no. 22-202-X

Greenhouse, Sod and Nursery Industries



2010



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Greenhouse, Sod and Nursery Industries

2010

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Symbols

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- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

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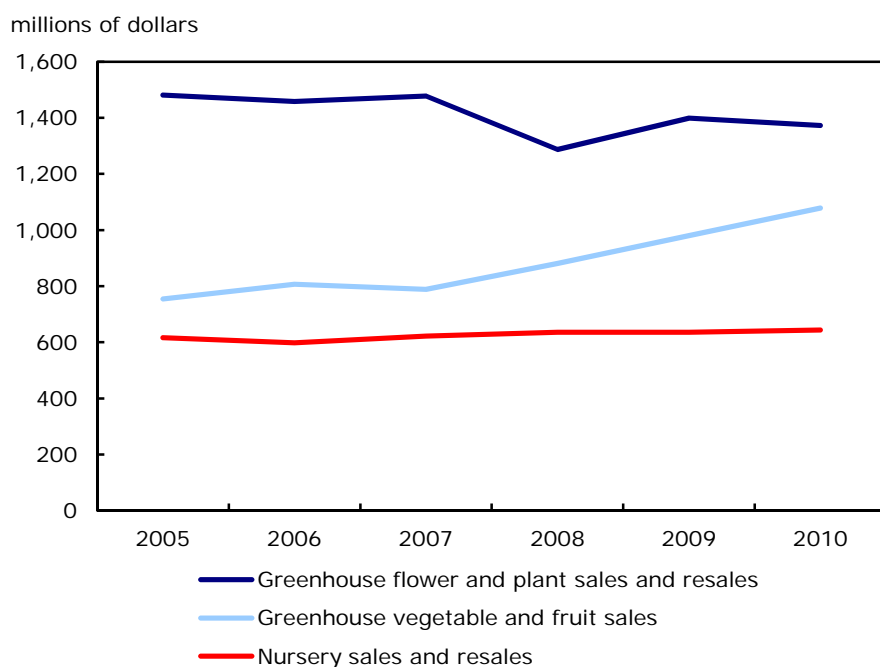
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Highlights

Overall trends

Total greenhouse area continued to increase in 2010. This situation was accompanied by an increase in sales of greenhouse products. This growth was only seen in greenhouse vegetable sales. The sod and nursery sectors experienced a slower increase in sales.

Chart 1
Sales of greenhouse and nursery products, Canada, 2005 to 2010



In 2010, total greenhouse area was 22.9 million square metres, compared with 22.4 million square metres in 2009. Sales of greenhouse products increased 3.0% amounting to approximately \$2.5 billion in 2010. Sales of flowers and plants decreased by 1.8% while vegetable sales increased by 10.0%.

Greenhouse operations increased their total operating expenses by 2.9% reaching \$2.1 billion. Labour costs totalled \$604 million and represented 28.5% of total greenhouse operating expenses. Nursery salary expenses grew by 10.1% to reach \$226 million in 2010. Total operation expenses for nurseries amounted to \$577 million compared to \$122 million for sod operations.

Greenhouse flowers and plants

Production of flowers and plants accounted for 43.7% of total greenhouse area and represented 56.0% of total sales of greenhouse products in 2010. Sales and resales of flowers and plants decreased 1.8% to reach \$1.4 billion. Resale of flowers and plants amounted to 15.8% of total flower and plant sale share.

Production of potted flowers and plants was still ranked first with sales of \$701 million. Sales of ornamental bedding plants and cut flowers reached \$181 and \$133 million respectively. Vegetable bedding plant sales increased by 6.4% to reach \$74 million. Cutting sales decreased 2.5%, accounting for \$63 million in 2010.

In 2010, Canadian greenhouses produced 238 million potted flowers and plants, 310 million cut flowers, 454 million ornamental bedding plants, 660 million vegetable bedding plants and 101 million cuttings. Production of vegetable bedding plants grew 16.4% between 2009 and 2010.

Expenses for specialized greenhouse flower and plant producers decreased 0.4% which accounted for \$1.0 billion. Labour costs represented 31.1% of total costs for greenhouses specializing in the production of flowers and plants. Although labour costs increased 3.5% between 2009 and 2010, total number of employees decreased 3.7%, representing 22,160 employees.

Greenhouse Vegetables

From 2009 to 2010, sales of greenhouse fruits and vegetables increased by 10.0% to surpass the \$1 billion mark. Ontario production represented 60.9% of sales of greenhouse fruits and vegetables in Canada. Sales of tomatoes increased 10.9%, reaching \$508 million. Sales of tomatoes increased 16.1% in British Columbia to reach \$141 million compared to \$281 million in Ontario. Sales of peppers, cucumbers and lettuce reached \$270 million, \$254 million and \$23.2 million respectively. Sales of cucumbers increased 45.1% in Alberta. Greenhouse lettuce was mainly produced in Quebec.

Total operating costs for specialized fruit and vegetable producers reached \$858 million in 2010. Electricity expenses increased by 12.7% to reach \$29.3 million. Labour costs were \$220 million, which represented almost one-quarter of the total operating expenses. For specialized fruit and vegetable greenhouses, the average cost per employee was \$21,580 compared to \$14,412 for specialized flower and plant greenhouses. Specialized vegetable greenhouses are in operation during a longer period of time and are hiring a larger proportion of permanent employees.

Nurseries and sod farms

Nursery sales increased 1.2% to reach \$644 million in 2010. The majority of nursery sales occurred in Ontario (44.2%), British Columbia (32.3%) and Quebec (11.6%). In 2010, the resale of nursery products, which is the sale of products not grown on site, represented 20.6% of total sales compared to 24.2% in 2009. Nursery products were mainly sold to landscape contractors (24.7%), garden centres (21.9%), mass market chain stores (13.4%) and direct sales (10.4%).

The survey also provides information on nursery plants produced in the field and in containers. The different categories of cultivated plants (in decreasing order of importance in terms of volume) were tree seedlings, fruit-bearing plants and bushes, perennials and annuals, deciduous shrubs (including rose bushes) and ornamental or shade trees. Tree seedlings produced in both greenhouses and nurseries grew by 0.4% to reach 421 million seedling trees.

In 2010, total costs for producers of nursery operators increased by 2.3% reaching \$577 million. Labour costs were estimated at \$226 million and represented 39.2% of total operating costs. In 2010, nurseries employed 14,400 workers. Of this total, 71.5% were seasonal workers. The average salary increased 7.0% to reach \$15,696 per employee.

More than 200 farms were involved in sod cultivation. Total sod area increased by 4.4% to reach 24,123 hectares. A total of 9,514 hectares of sod were sold in 2010. Ontario, Alberta, and Quebec were among the main sod-producing provinces. In 2010, total sales of sod, including resale activities, rose to \$147 million which was an increase of 2.5% over 2009.

Costs for sod producers increased by 10.9%, reaching \$122 million. Labour costs grew by 11.5% to represent 38.0% of total operating expenses. In 2010, the sod industry's average salary was \$23,792. This sector employed 1,935 workers.

Related products

Selected publications from Statistics Canada

21-010-X	Net Farm Income - Agriculture Economic Statistics
21-011-X	Farm Cash Receipts - Agriculture Economic Statistics
21-206-X	Statistics on Income of Farm Operators
22-003-X	Fruit and Vegetable Production
22-008-X	Canadian Potato Production
23-221-X	Production and Value of Honey and Maple Products

Selected CANSIM tables from Statistics Canada

001-0006	Production and value of greenhouse vegetables, annual
001-0046	Estimates of greenhouse total area and months of operation, annual
001-0047	Estimates of specialized greenhouse operations, greenhouse area, and months of operation, annual
001-0048	Production and sale of greenhouse flowers and plants by category, annual
001-0049	Production of potted plants, cut flowers, cuttings, by variety and tree seedlings, annual
001-0050	Channels of distribution for horticulture product sales and resales, annual
001-0051	Total value of greenhouse products, annual
001-0052	Greenhouse producers' operating expenses, annual
001-0053	Specialized greenhouse producers' operating expenses, annual
001-0054	Total greenhouse, sod and nursery employees, annual
001-0055	Total specialized greenhouse employees, annual
001-0056	Estimates of nursery area, annual
001-0057	Nursery tree and plant production, annual
001-0058	Nursery stock sales and resales, annual

001-0059	Channels of distribution for nursery product sales and resales, annual
001-0060	Estimates of sod area, sales and resales, annual
001-0061	Nursery and sod producers' operating expenses, annual

Selected surveys from Statistics Canada

3416	Annual Greenhouse, Sod and Nursery Survey
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Statistical tables

Table 1
Greenhouse total area and months of operation

	Total greenhouse operations	Area								Total months of operation	
		Total greenhouse area		Glass		Rigid plastic ¹		Poly-film			
		number	square feet	square metres	square feet	square metres	square feet	square metres	square feet		square metres
2009											
Newfoundland and Labrador	50	743,150	69,041	F	F	70,150	6,517	665,220	61,801	330	
Prince Edward Island	15	322,780	29,987	x	x	F	F	258,910 ^E	24,054 ^E	99	
Nova Scotia	100	2,183,490 ^r	202,853 ^r	F	F	F	F	1,516,440	140,882	655	
New Brunswick	75 ^r	1,800,630 ^r	167,284 ^r	F	F	9,020 ^E	838 ^E	1,760,390 ^r	163,546 ^r	430	
Quebec	730	27,559,360 ^r	2,560,347 ^r	3,492,680 ^r	324,480 ^r	2,596,780	241,249	21,469,900 ^r	1,994,618 ^r	5,040 ^r	
Ontario	1,245 ^r	138,767,210 ^r	12,891,890 ^r	38,310,550 ^r	3,559,165 ^r	10,131,960 ^r	941,289 ^r	90,324,700 ^r	8,391,436 ^r	10,200 ^r	
Manitoba	115	3,882,620 ^{Er}	360,707 ^{Er}	x	x	F	F	F	F	810	
Saskatchewan	145	2,117,000	196,676	F	F	195,000	18,116	1,850,000	171,871	865	
Alberta	335	11,086,650 ^r	1,029,983 ^r	676,660	62,864	493,640 ^r	45,861 ^r	9,916,350	921,259	2,460	
British Columbia	525 ^r	52,203,645 ^r	4,849,875 ^r	38,072,760	3,537,074	F	F	11,938,475 ^r	1,109,120 ^r	3,987 ^r	
Canada	3,335 ^r	240,666,535 ^r	22,358,643 ^r	81,230,580 ^r	7,546,565 ^r	16,072,650 ^r	1,493,197 ^r	143,363,305 ^r	13,318,881 ^r	24,876 ^r	
2010											
Newfoundland and Labrador	50	737,970	68,560	12,900	1,198	149,040	13,846	576,030	53,515	330	
Prince Edward Island	15	297,925	27,678	x	x	x	x	255,835	23,768	84	
Nova Scotia	100	1,796,385	166,890	477,365	44,349	117,545 ^E	10,920 ^E	1,201,475	111,621	620	
New Brunswick	75	1,790,740	166,365	x	x	F	F	1,657,250	153,963	440	
Quebec	710	28,223,245	2,622,024	3,574,710 ^E	332,101 ^E	F	F	22,962,330	2,133,269	4,930	
Ontario	1,190	140,449,395	13,048,170	36,912,815	3,429,311	7,305,480	678,701	96,231,100	8,940,158	10,065	
Manitoba	125	3,307,070	307,237	0	0	153,710 ^E	14,280 ^E	3,153,360	292,957	770	
Saskatchewan	145	2,019,595	187,626	F	F	F	F	1,773,040	164,721	890	
Alberta	325	12,152,255	1,128,981	936,375	86,992	733,290	68,125	10,482,590	973,864	2,320	
British Columbia	550	55,317,820	5,139,191	41,823,735	3,885,550	1,833,585	170,346	11,660,500	1,083,295	5,175	
Canada	3,285	246,092,400	22,862,722	83,825,465	7,787,637	12,313,425	1,143,954	149,953,510	13,931,131	25,624	

1. Includes all other types of enclosed protection used for growing plants, such as rigid insulation, mine shafts, barns and shelters.

Note(s): Includes greenhouse vegetables and greenhouse flowers.

Table 2
Specialized greenhouse vegetable and fruit producers' area

	Total greenhouse operations	Area								Total months of operation
		Total greenhouse area		Glass		Rigid plastic ¹		Poly-film		
		number	square feet	square metres	square feet	square metres	square feet	square metres	square feet	
2009										
Atlantic provinces	35 ^r	472,130 ^E	43,862 ^E	F	F	x	x	333,460 ^E	30,979 ^E	250 ^r
Quebec	190	7,688,840 ^r	714,316 ^r	2,095,480 ^r	194,676 ^r	F	F	4,397,360 ^r	408,528 ^r	1,485 ^r
Ontario	240	82,673,310 ^r	7,680,599 ^r	22,032,820 ^r	2,046,915 ^r	6,674,605 ^r	620,091 ^r	53,965,885 ^r	5,013,593 ^r	2,780 ^r
Prairie provinces	80	4,821,950 ^r	447,974 ^r	x	x	F	F	4,345,160	403,678	730
British Columbia	105	27,134,935 ^r	2,520,917 ^r	25,198,920 ^r	2,341,055 ^r	152,955 ^{Er}	14,210 ^{Er}	1,783,060 ^r	165,652 ^r	870 ^r
Canada	650 ^r	122,791,165 ^r	11,407,668 ^r	49,779,290 ^r	4,624,645 ^r	8,186,950 ^r	760,592 ^r	64,824,925 ^r	6,022,430 ^r	6,115 ^r
2010										
Atlantic provinces	40	428,630	39,821	107,390 ^E	9,977 ^E	F	F	303,940	28,237	280
Quebec	205	8,420,005	782,244	F	F	F	F	4,590,085	426,433	1,540
Ontario	255	86,697,435	8,054,452	20,845,025	1,936,565	F	F	64,321,400	5,975,651	2,710
Prairie provinces	80	5,734,990	532,798	F	F	F	F	4,848,170	450,410	840
British Columbia	120	29,265,235	2,718,828	27,829,075	2,585,405	F	F	1,274,650	118,419	1,110
Canada	700	130,546,295	12,128,142	52,027,330	4,833,495	3,180,720	295,498	75,338,245	6,999,149	6,480

1. Includes all other types of enclosed protection used for growing plants, such as rigid insulation, mine shafts, barns and shelters.

Table 3-1
Area, production and value — Greenhouse tomatoes

	Area		Production		Farm gate value
	square feet	square metres	pounds	kilograms	dollars
2009					
Newfoundland and Labrador	16,920	1,572	13,300 E	6,033 E	16,590 E
Prince Edward Island	x	x	x	x	x
Nova Scotia	F	F	F	F	F
New Brunswick	32,800	3,047	124,000 E	56,245 E	145,000 E
Quebec	5,540,120	514,694	44,869,480 r	20,352,454 r	60,778,180 r
Ontario	34,072,190	3,165,409	342,727,600 r	155,458,624 r	260,262,240 r
Manitoba	45,190	4,198	185,120	83,969	330,350
Saskatchewan	40,400 Er	3,753 Er	137,030 r	62,156 r	338,950 r
Alberta	1,000,000	92,903	10,809,225	4,902,982	10,232,050
British Columbia	11,950,690 r	1,110,255 r	131,046,630 r	59,441,751 r	121,301,910 r
Canada	53,306,260 r	4,952,311 r	534,724,865 r	242,547,119 r	458,681,260 r
2010					
Newfoundland and Labrador	35,600	3,307	18,000	8,165	24,000
Prince Edward Island	x	x	x	x	x
Nova Scotia	431,865	40,122	3,399,285 E	1,541,890 E	3,747,145 E
New Brunswick	x	x	F	F	F
Quebec	5,879,895	546,260	53,974,030 E	24,482,208 E	69,355,835 E
Ontario	36,375,475	3,379,391	365,488,410	165,782,754	280,959,120
Manitoba	75,950 E	7,056 E	320,050 E	145,172 E	547,690 E
Saskatchewan	60,700	5,639	191,370	86,804	467,960
Alberta	1,386,170	128,779	13,497,595	6,122,406	12,500,420
British Columbia	12,520,160 E	1,163,160 E	136,805,740 E	62,054,040 E	140,811,015 E
Canada	56,851,575	5,281,682	574,099,334	260,407,078	508,865,120

Table 3-2
Area, production and value — Greenhouse cucumbers

	Area		Production		Farm gate value
	square feet	square metres	dozens		dollars
2009					
Newfoundland and Labrador	1,430 E	133 E	170 E		2,240 E
Prince Edward Island	x	x	x		x
Nova Scotia	F	F	F		F
New Brunswick	F	F	F		F
Quebec	1,018,790 Er	94,649 Er	F		2,839,740 r
Ontario	28,089,960 r	2,609,642 r	26,552,090 r		188,377,390 r
Manitoba	7,220	671	3,660		36,140 E
Saskatchewan	25,760 r	2,393 r	16,780 r		217,270 r
Alberta	1,700,000	157,935	1,800,000		15,500,000
British Columbia	4,240,810 r	393,984 r	10,469,970 r		37,792,315 r
Canada	35,320,880 r	3,281,416 r	39,379,790 r		246,484,705 r
2010					
Newfoundland and Labrador	1,640	152	250		2,385
Prince Edward Island	0	0	0		0
Nova Scotia	121,140	11,254	95,590		1,140,540
New Brunswick	F	F	F		F
Quebec	1,014,965	94,293	348,345 E		2,835,045 E
Ontario	28,871,080	2,682,210	30,411,895		183,965,125
Manitoba	7,195 E	668 E	F		F
Saskatchewan	43,210	4,014	28,340		345,345
Alberta	3,013,130	279,929	3,014,874		22,496,400
British Columbia	4,414,515	410,122	F		43,209,870
Canada	37,494,260	3,483,329	49,343,974		254,077,090

Table 3-3
Area, production and value — Greenhouse lettuce

	Area		Production	Farm gate value
	square feet	square metres	heads	dollars
2009				
Newfoundland and Labrador	x	x	x	x
Prince Edward Island	F	F	x	x
Nova Scotia	19,360 ^E	1,799 ^E	F	F
New Brunswick	x	x	x	x
Quebec	1,743,230 ^r	161,951 ^r	12,642,065 ^{Er}	14,791,620 ^r
Ontario	396,750 ^r	36,859 ^r	3,306,350 ^{Er}	4,738,925 ^{Er}
Manitoba	4,500 ^E	418 ^E	F	F
Saskatchewan	F	F	4,375 ^r	x
Alberta	F	F	F	F
British Columbia	F	F	F	F
Canada	2,485,530^r	230,913^r	18,659,250^r	21,905,045^r
2010				
Newfoundland and Labrador	F	F	x	x
Prince Edward Island	F	F	F	F
Nova Scotia	F	F	F	F
New Brunswick	F	F	F	F
Quebec	F	F	F	F
Ontario	F	F	F	F
Manitoba	F	F	F	F
Saskatchewan	F	F	x	F
Alberta	64,350 ^E	5,978 ^E	F	F
British Columbia	F	F	F	F
Canada	2,665,665^E	247,648^E	22,518,920^E	23,248,700^E

Table 3-4
Area, production and value — Greenhouse peppers

	Area		Production		Farm gate value
	square feet	square metres	pounds	kilograms	dollars
2009					
Newfoundland and Labrador	2,740 ^E	255 ^E	6,720 ^E	3,048 ^E	F
Prince Edward Island	x	x	x	x	x
Nova Scotia	8,050 ^E	748 ^E	4,520 ^E	2,050 ^E	F
New Brunswick	3,000 ^E	279 ^E	F	F	F
Quebec	F	F	F	F	F
Ontario	23,640,510 ^r	2,196,274 ^r	126,045,150 ^r	57,173,118 ^r	143,797,020 ^r
Manitoba	4,120 ^E	383 ^E	5,290	2,400	7,960 ^E
Saskatchewan	11,790 ^r	1,095 ^r	25,080 ^r	11,376 ^r	83,130 ^r
Alberta	900,000	83,613	4,850,000	2,199,923	6,500,000
British Columbia	13,400,000	1,244,900	61,700,000 ^r	27,986,649 ^r	84,200,000
Canada	38,081,310^r	3,537,868^r	192,988,845^r	87,538,268^r	235,161,600^r
2010					
Newfoundland and Labrador	2,915	271	5,110 ^E	2,318 ^E	7,475 ^E
Prince Edward Island	x	x	x	x	x
Nova Scotia	F	F	F	F	F
New Brunswick	F	F	F	F	F
Quebec	F	F	F	F	F
Ontario	26,772,575	2,487,253	134,432,340	60,977,484	176,483,165
Manitoba	F	F	F	F	F
Saskatchewan	x	x	x	x	x
Alberta	730,835	67,897	3,524,010	1,598,464	5,735,900
British Columbia	13,125,700	1,219,417	65,781,830	29,838,136	87,426,900
Canada	40,769,060	3,787,568	203,999,805	92,532,755	270,123,295

Table 4
Vegetable and fruit sales distribution ¹

	Domestic wholesalers	Mass market chain stores	Other greenhouses	Exported	Direct sales to the public ²	Other channels	Total sales
	dollars						
2009							
Newfoundland and Labrador	0	x	0	0	35,720	x	209,180 ^E
Prince Edward Island	x	x	0	0	F	x	F
Nova Scotia	F	F	0	0	F	x	F
New Brunswick	200,000 ^r	0	0	0	x	x	431,520 ^{Er}
Quebec	23,779,160 ^r	40,331,675 ^r	x	9,965,195 ^r	6,903,570 ^{Er}	F	82,808,290 ^r
Ontario	447,793,865 ^r	32,245,270 ^r	F	20,271,860 ^{Er}	F	90,797,230 ^r	608,036,690 ^r
Manitoba	x	x	x	x	239,100 ^E	x	557,810
Saskatchewan	0	x	0 ^r	0	630,835 ^r	x	850,490 ^r
Alberta	21,382,050	F	x	0	3,940,975 ^{Er}	5,327,000 ^E	33,818,390 ^r
British Columbia	76,324,300 ^r	57,711,180 ^r	6,390,700 ^r	63,569,520 ^{Er}	2,235,890 ^r	39,706,475 ^r	245,938,065 ^r
Canada	575,188,295 ^r	134,666,470 ^r	20,971,215 ^r	93,883,445 ^r	17,441,505 ^r	138,111,005 ^r	980,261,935 ^r
2010							
Newfoundland and Labrador	x	x	0	0	28,385	x	F
Prince Edward Island	x	x	0	0	x	x	356,470
Nova Scotia	4,072,510	739,700	0	0	154,435	0	4,966,645
New Brunswick	x	x	x	x	155,070 ^E	0	F
Quebec	26,320,750	48,413,075 ^E	F	F	6,151,060 ^E	4,738,090 ^E	94,394,885
Ontario	467,621,715	45,888,150	11,554,815 ^E	42,957,100 ^E	F	70,676,095 ^E	656,950,850
Manitoba	x	F	F	0	F	x	972,450 ^E
Saskatchewan	x	318,020 ^E	0	0	667,690	F	1,151,315
Alberta	25,919,700	F	x	0	3,453,330 ^E	9,852,080	41,554,150
British Columbia	103,857,170	59,986,690 ^E	F	F	2,063,165	31,140,180 ^E	276,536,875
Canada	628,504,835	157,947,975	22,295,945	120,790,500 ^E	31,310,645 ^E	117,057,605	1,077,907,505

1. Before sales tax.

2. Includes roadside stands and owner-operated retail outlets.

Table 5
Specialized greenhouse flower and plant producers' area

	Total greenhouse operations	Area								Total months of operation	
		Total greenhouse area		Glass		Rigid plastic ¹		Poly-film			
		number	square feet	square metres	square feet	square metres	square feet	square metres	square feet		square metres
2009											
Atlantic provinces	170	3,805,640 ^r	353,555 ^r	F	F	F	F	3,291,610 ^r	305,800 ^r	1,070 ^r	
Quebec	410	15,001,110 ^r	1,393,648 ^r	1,221,235 ^r	113,456 ^r	1,184,070 ^r	110,004 ^r	12,595,805 ^r	1,170,188 ^r	2,620 ^r	
Ontario	830	45,829,375 ^r	4,257,686 ^r	13,084,325 ^r	1,215,573 ^r	3,344,460 ^r	310,710 ^r	29,400,590 ^r	2,731,403 ^r	6,550 ^r	
Prairie provinces	420	11,375,230 ^r	1,056,793 ^r	377,360	35,058	625,720	58,131	10,372,150 ^r	963,604 ^r	2,828	
British Columbia	350 ^r	16,942,810 ^r	1,574,038 ^r	6,589,030 ^r	612,141 ^r	F	F	8,475,120 ^r	787,364 ^r	2,520 ^r	
Canada	2,180 ^r	92,954,165 ^r	8,635,721 ^r	21,569,020 ^r	2,003,827 ^r	7,249,870 ^r	673,535 ^r	64,135,275 ^r	5,958,359 ^r	15,588 ^r	
2010											
Atlantic provinces	165	3,368,060	312,903	214,475 ^E	19,925 ^E	342,540	31,823	2,811,045	261,155	970	
Quebec	400	14,465,520	1,343,890	790,360	73,427	255,765 ^E	23,761 ^E	13,419,395	1,246,702	2,625	
Ontario	720	43,638,130	4,054,113	13,054,420	1,212,795	3,748,600	348,256	26,835,110	2,493,062	6,020	
Prairie provinces	410	9,836,980	913,885	360,565	33,498	787,300	73,143	8,689,115	807,245	2,805	
British Columbia	360	18,897,495	1,755,634	8,691,255	807,444	1,543,215	143,369	8,663,025	804,821	2,785	
Canada	2,055	90,206,185	8,380,425	23,111,075	2,147,088	6,677,420	620,352	60,417,690	5,612,985	15,205	

1. Includes all other types of enclosed protection used for growing plants, such as rigid insulation, mine shafts, barns and shelters.

Table 6
Greenhouse flower and plant production and sales by category

	Total potted plants		Total cuttings ¹		Total cut flowers	
	Production	Sales	Production	Sales	Production	Sales
	pots	dollars	number	dollars	number	dollars
2009						
Newfoundland and Labrador	885,900 r	3,800,500	0	0	x	x
Prince Edward Island	F	F	0	0	x	x
Nova Scotia	F	6,668,070 E	0	0	x	x
New Brunswick	F	8,512,550 E	F	x	F	F
Quebec	37,455,795 r	99,118,510 r	F	x	F	F
Ontario	133,271,255 r	349,262,625 r	31,108,920 r	15,274,065 r	188,597,300 r	87,008,360 r
Manitoba	F	F	F	180,080 r	F	F
Saskatchewan	2,126,975 Er	7,775,690 r	x	x	0	0
Alberta	10,744,635 r	41,746,370 r	F	4,000,080 r	x	x
British Columbia	35,396,612 r	135,601,375 r	33,784,725 r	32,077,025 r	88,018,935 r	38,984,400 r
Canada	229,233,467 r	670,128,340 r	99,281,770 r	64,631,528 r	285,037,964 r	132,592,120 r
2010						
Newfoundland and Labrador	1,151,026	3,912,360	0	0	x	x
Prince Edward Island	87,700	512,000	0	0	x	x
Nova Scotia	1,123,735	5,253,940	x	x	x	x
New Brunswick	2,896,580	10,532,400	x	x	78,029 E	74,000
Quebec	39,384,635	110,868,850	F	F	F	F
Ontario	135,483,533	360,589,945	35,854,585 E	18,949,200 E	206,167,520	88,361,340
Manitoba	5,334,690	16,024,740	F	F	x	x
Saskatchewan	2,707,635	9,061,685	F	F	0	0
Alberta	11,173,350	37,555,560	F	F	F	F
British Columbia	38,569,225	147,029,145	35,732,690	F	95,609,885	37,602,920
Canada	237,912,109	701,340,625	100,972,640	62,992,480	309,655,684	132,641,255
	Bedding plants, ornamental		Bedding plants, vegetables			
	Production	Sales	Production	Sales		
	number	dollars	number	dollars		
2009						
Newfoundland and Labrador	4,122,520	2,556,550	224,560	201,290		
Prince Edward Island	F	F	F	60,060 Er		
Nova Scotia	6,786,880	2,643,410	F	489,000		
New Brunswick	F	F	F	F		
Quebec	78,443,800 r	32,636,440 r	160,000,000 r	13,173,410		
Ontario	152,216,120 r	59,512,020 r	343,697,895 r	40,381,000 r		
Manitoba	F	F	3,701,710 Er	1,560,000 r		
Saskatchewan	16,350,000 Er	6,073,030 r	2,458,800 Er	968,030 r		
Alberta	22,612,230 r	16,627,855 r	4,313,500 r	F		
British Columbia	30,827,265 r	20,781,720 r	F	9,784,625 Er		
Canada	478,033,885 r	175,255,085 r	567,704,855 r	70,793,475 r		
2010						
Newfoundland and Labrador	4,157,290	2,446,550	322,820	238,575		
Prince Edward Island	1,227,440	1,622,000 E	66,600	86,750		
Nova Scotia	5,552,040	2,688,915	1,782,205	551,580		
New Brunswick	x	13,179,100	x	1,612,165		
Quebec	65,651,340	25,766,600	F	13,152,880		
Ontario	155,400,510	65,827,775	395,155,859	42,688,100		
Manitoba	F	14,831,755	4,786,230	2,838,900		
Saskatchewan	12,691,280	5,171,850	2,215,440	967,010		
Alberta	32,314,475	22,499,850	4,644,815	2,370,360		
British Columbia	41,022,945	26,688,355	F	F		
Canada	453,793,305	180,722,750	660,605,714	74,104,890		

1. Excludes tree seedling plant sales.

Table 7
Indoor potted plant production by variety

	Azaleas	Lilies	Poinsettias	African violets	Tropical foliage and green plants	Gerberas	Miniature roses	Orchids
pots								
2009								
Newfoundland and Labrador	x	4,390 ^E	F	0	x	2,230	0	0
Prince Edward Island	0	0	x	0	0	x	0	0
Nova Scotia	x	F	F	0	x	F	x	0
New Brunswick	1,910 ^E	3,310	x	F	F	F	F	x
Quebec	F	88,970 ^r	604,375 ^r	x	620,350 ^r	140,060	10,310 ^r	x
Ontario	F	2,488,475 ^r	4,069,170 ^r	F	6,264,530 ^{Er}	2,570,290 ^r	F	F
Manitoba	x	F	F	x	F	13,830 ^E	F	x
Saskatchewan	x	F	F	x	F	6,960 ^r	F	x
Alberta	F	F	282,770 ^{Er}	F	F	11,340 ^{Er}	F	x
British Columbia	25,854 ^r	605,015 ^r	F	957,270 ^{Er}	F	680,710 ^r	x	597,300 ^{Er}
Canada	F	3,362,675^r	7,685,425^r	F	9,850,600^r	3,469,270^r	F	6,252,305^{Er}
2010								
Newfoundland and Labrador	x	5,480	56,000	x	x	11,240	0	0
Prince Edward Island	0	0	x	0	0	0	0	0
Nova Scotia	0	10,795 ^E	F	0	5,580 ^E	2,140	x	0
New Brunswick	1,010	6,595	x	x	13,845	20,130	325	x
Quebec	F	130,395 ^E	660,195	x	713,615	190,040	F	F
Ontario	F	3,560,365	3,940,240	F	F	1,749,180	F	F
Manitoba	x	F	F	x	F	11,910 ^E	F	x
Saskatchewan	x	F	19,760 ^E	x	F	7,865	F	0
Alberta	x	F	310,820 ^E	x	F	17,640 ^E	F	0
British Columbia	F	F	1,907,350	1,134,345 ^E	3,321,835 ^E	779,805	F	903,920 ^E
Canada	F	4,716,425	7,294,250	F	8,503,975	2,789,950	F	F
pots								
	Kalanchoe	Chrysanthemums (potted mums)	Primula	Cyclamen	Tulips	Indoor hanging pots	Other indoor pots	
2009								
Newfoundland and Labrador	0	x	1,610 ^E	0	x	x	x	
Prince Edward Island	0	0	0	0	x	0	0	
Nova Scotia	x	x	F	x	x	F	F	
New Brunswick	x	4,630 ^E	500 ^E	x	500 ^E	F	F	
Quebec	F	41,910 ^r	F	50,190 ^{Er}	13,250 ^{Er}	89,500 ^r	826,225 ^r	
Ontario	3,712,550 ^{Er}	5,780,375 ^r	616,745 ^r	1,885,945 ^r	1,936,340 ^{Er}	464,610 ^r	35,996,000 ^{Er}	
Manitoba	x	x	F	x	x	F	F	
Saskatchewan	F	x	F	F	F	F	F	
Alberta	x	F	F	x	x	F	F	
British Columbia	1,052,100 ^{Er}	F	348,423 ^r	F	F	F	1,796,910 ^{Er}	
Canada	4,783,525^r	6,942,835^r	1,005,803^r	2,145,555^r	1,996,270^{Er}	786,450^r	38,808,595^{Er}	
2010								
Newfoundland and Labrador	0	14,045	4,055	0	x	x	x	
Prince Edward Island	0	0	0	0	0	x	0	
Nova Scotia	x	F	x	0	x	540	5,285	
New Brunswick	x	4,915	4,715	x	x	5,590	x	
Quebec	F	77,825 ^E	F	83,590 ^E	21,740 ^E	127,310	821,700 ^E	
Ontario	4,776,895 ^E	8,714,625	792,890 ^E	1,563,050	F	542,740 ^E	21,630,200 ^E	
Manitoba	x	F	F	x	0	F	F	
Saskatchewan	x	0	x	x	x	3,790 ^E	F	
Alberta	x	F	F	x	x	F	F	
British Columbia	984,825 ^E	F	336,350	F	F	172,685 ^E	3,471,400 ^E	
Canada	5,792,150^E	9,783,100	1,220,945	1,803,125	F	895,280	26,045,840	

Note(s): Includes flowers grown, or given some cultural treatment, and sold.

Table 8
Outdoor potted plant production by variety

	Begonias	Chrysanthemums	Geraniums	Impatiens	Petunias	Hosta
pots						
2009						
Newfoundland and Labrador	51,450	F	35,410	38,380 E	37,080	..
Prince Edward Island	F	F	F	x	x	..
Nova Scotia	74,000	F	F	F	98,490 E	..
New Brunswick	62,460	F	F	F	F	..
Quebec	1,426,950 r	498,820 r	2,554,600 r	F	2,338,020 r	..
Ontario	1,570,550 r	2,673,080 r	8,288,270 r	1,720,765 r	2,799,090 r	..
Manitoba	145,870 Er	14,520 E	F	F	F	..
Saskatchewan	72,970 Er	F	347,025 r	F	274,190 r	..
Alberta	313,575 r	24,930 r	807,075 r	86,510 r	1,007,450 r	..
British Columbia	1,369,870 r	393,900 Er	5,360,625 r	1,309,530 r	1,611,160 r	..
Canada	5,102,385 r	3,989,860 r	18,948,495 r	8,119,585 r	8,823,430 r	..
2010						
Newfoundland and Labrador	123,220	14,115	x	55,030	63,525	..
Prince Edward Island	7,000	x	x	x	x	..
Nova Scotia	51,235	11,110	267,605	62,225	83,365	..
New Brunswick	99,110	280,240	427,410	138,010	148,950	..
Quebec	1,999,370 E	480,070 E	3,782,250	1,693,670	736,910	..
Ontario	2,235,795	3,150,115	7,897,595	F	F	..
Manitoba	144,070	9,405	966,200	135,040	383,385	..
Saskatchewan	88,280	F	393,855 E	86,735	326,555 E	..
Alberta	366,360	F	1,212,370	287,370 E	1,142,200 E	..
British Columbia	1,243,300	420,140 E	4,474,675	1,353,495	1,215,080	..
Canada	6,357,740	4,420,390	19,492,085	8,878,845 E	F	..
pots						
	Herbaceous perennials	Argyranthemum	Outdoor hanging pots	Other outdoor pots	Total potted plants ¹	
2009						
Newfoundland and Labrador	82,530 Er	5,190	115,430	F	885,900 r	
Prince Edward Island	x	x	F	x	F	
Nova Scotia	52,710	F	F	F	F	
New Brunswick	F	F	216,070	F	F	
Quebec	2,999,295 r	73,350 r	1,741,090 r	18,504,900	37,455,795 r	
Ontario	2,539,040 r	124,050 r	5,870,440 r	18,256,060 r	133,271,255 r	
Manitoba	F	29,280 E	F	F	F	
Saskatchewan	F	9,030 r	142,730 Er	F	2,126,975 Er	
Alberta	838,235 r	52,750 r	462,380 r	6,516,940 r	10,744,635 r	
British Columbia	1,241,995 Er	151,055 Er	1,080,770 r	10,102,190 r	35,396,612 r	
Canada	8,836,485 r	474,665 r	10,369,810 r	57,574,195 r	229,233,467 r	
2010						
Newfoundland and Labrador	84,230	11,420	x	541,540 E	1,151,026	
Prince Edward Island	x	x	x	x	87,700	
Nova Scotia	x	9,175	150,940	384,940	1,123,735	
New Brunswick	289,090	21,750	308,670	905,275	2,896,580	
Quebec	5,542,175	167,660	2,365,615	19,353,305	39,384,635	
Ontario	5,514,420 E	117,740	6,200,270	15,726,500	135,483,533	
Manitoba	821,185 E	18,660	448,890 E	F	5,334,690	
Saskatchewan	112,010 E	F	146,010	1,450,090 E	2,707,635	
Alberta	884,060	45,260	531,420	5,981,420 E	11,173,350	
British Columbia	1,532,710 E	192,000	1,493,545	10,906,300	38,569,225	
Canada	14,847,445	607,585	11,758,515	57,226,310	237,912,109	

1. Includes both indoor and outdoor plants (Tables 7 and 8).

Table 9
Cuttings, tree seedlings and other propagating material

	Cuttings					Total cuttings	Tree seedlings greenhouse production ¹
	Chysanthemums	Poinsettias	Geraniums	Impatiens	Other cuttings		
	number						
2009							
Newfoundland and Labrador	0	0	0	0	0	0	0
Prince Edward Island	0	0	0	0	0	0	0
Nova Scotia	0	0	0	0	0	0	0
New Brunswick	x	x	x	x	x	F	x
Quebec	x	x	3,585,170 ^{Er}	F	F	F	F
Ontario	x	F	F	F	18,890,320 ^{Er}	31,108,920 ^r	32,789,130 ^r
Manitoba	0	0	x	x	F	F	0
Saskatchewan	x	0	x	0	x	x	0 ^r
Alberta	0	0	F	F	F	F	26,399,925 ^{Er}
British Columbia	x	x	F	F	22,229,355 ^r	33,784,725 ^r	70,228,080 ^{Er}
Canada	F	5,324,550^r	14,868,580^r	6,059,430^r	65,238,425^r	99,281,770^r	167,074,365^r
2010							
Newfoundland and Labrador	0	0	0	0	0	0	0
Prince Edward Island	0	0	0	0	0	0	0
Nova Scotia	0	0	0	0	x	x	x
New Brunswick	x	x	x	x	x	x	x
Quebec	x	x	F	F	F	F	x
Ontario	x	F	F	F	24,828,860 ^E	35,854,585 ^E	11,386,500 ^E
Manitoba	0	0	x	x	x	F	x
Saskatchewan	0	0	x	0	x	F	0
Alberta	0	0	F	F	F	F	x
British Columbia	x	x	F	F	25,264,840 ^E	35,732,690	F
Canada	F	F	13,092,085	4,073,735^E	71,900,955	100,972,640	34,398,680

1. As of 2010, tree seedlings produced for reforestation have been transferred from Table 9 to Table 19.

Table 10
Greenhouse cut flower production by variety

	Stems						
	Alstroemeria	Chrysanthemums	Daffodils	Freesia	Gerberas	Iris	Roses
	number						
2009							
Newfoundland and Labrador	0	0	x	0	0	0	0
Prince Edward Island	0	0	0	0	0	0	0
Nova Scotia	x	x	0	0	x	0	0
New Brunswick	x	F	x	0	x	x	x
Quebec	x	0	0	0	x	x	x
Ontario	12,452,380 ^{Er}	13,701,600 ^r	x	x	35,690,570 ^{Er}	x	8,574,700 ^{Er}
Manitoba	0	0	x	0	0	0	0
Saskatchewan	0	0	0	0	0	0	0
Alberta	105,000 ^r	0	0	0	97,000 ^r	0	0
British Columbia	6,708,865 ^{Er}	F	x	x	24,650,410 ^{Er}	x	x
Canada	19,503,535 ^r	20,107,860 ^r	12,826,820 ^{Er}	F	60,938,940 ^r	F	11,482,530 ^{Er}
2010							
Newfoundland and Labrador	0	0	0	0	0	0	0
Prince Edward Island	0	0	0	0	0	0	0
Nova Scotia	x	0	0	0	x	0	0
New Brunswick	x	x	0	0	0	x	0
Quebec	x	0	0	0	x	0	x
Ontario	F	16,162,520 ^E	x	x	F	x	F
Manitoba	0	0	x	0	0	0	0
Saskatchewan	0	0	0	0	0	0	0
Alberta	x	0	0	0	x	0	0
British Columbia	F	x	F	F	F	0	F
Canada	15,616,710 ^E	27,531,280	F	F	69,028,645	F	12,046,655 ^E

	Stems					
	Snapdragons	Tulips	Lilies	Lisianthus	Other cut flowers	Total cut flowers
	number					
2009						
Newfoundland and Labrador	0	x	0	0	0	x
Prince Edward Island	0	x	0	0	0	x
Nova Scotia	x	0	x	x	x	x
New Brunswick	x	x	x	0	x	F
Quebec	x	x	x	x	F	F
Ontario	F	67,193,335 ^{Er}	10,974,000 ^r	x	15,954,560 ^r	188,597,300 ^r
Manitoba	x	x	x	0	x	F
Saskatchewan	0	0	0	0	0	0
Alberta	x	0	x	0	x	x
British Columbia	F	20,308,720 ^r	3,953,835 ^{Er}	F	F	88,018,935 ^r
Canada	16,480,635 ^{Er}	91,685,255 ^r	16,049,375 ^r	F	25,109,950 ^r	285,037,964 ^r
2010						
Newfoundland and Labrador	0	x	0	0	0	x
Prince Edward Island	0	x	0	0	0	x
Nova Scotia	x	0	x	x	x	x
New Brunswick	x	x	x	x	x	78,029 ^E
Quebec	x	0	x	x	F	F
Ontario	F	F	13,402,465	F	13,289,815	206,167,520
Manitoba	x	x	x	0	x	x
Saskatchewan	0	0	0	0	0	0
Alberta	x	0	F	x	x	F
British Columbia	F	19,673,105 ^E	F	F	8,903,060	95,609,885
Canada	F	96,670,305 ^E	19,777,870	F	22,735,605	309,655,684

Note(s): Includes flowers grown, or given some cultural treatment, and sold.

Table 11
Channels of distribution for flower and plant sales and resales ¹

	Retail florists	Domestic wholesalers	Mass market chain stores	Other greenhouses	Exported	Direct sales to the public ²	Government and public agencies	Other channels	Total sales
	dollars								
2009									
Newfoundland and Labrador	466,230 ^E	x	F	31,770 ^E	0	4,532,905	F	F	8,856,720
Prince Edward Island	x	x	x	0	0	F	F	x	4,342,370 ^{Er}
Nova Scotia	F	F	F	F	0	11,886,840 ^E	151,070 ^E	F	22,395,120 ^E
New Brunswick	F	F	F	F	x	5,819,460	263,610	F	39,222,780 ^{Er}
Quebec	34,098,915 ^r	17,023,550 ^r	47,513,560 ^r	13,896,425 ^r	9,890,120 ^r	50,794,015 ^r	3,835,930 ^r	2,723,000 ^r	179,775,515 ^r
Ontario	70,824,745 ^r	170,413,665 ^r	222,990,820 ^E	58,449,590 ^r	95,067,390 ^r	84,299,575 ^r	3,743,045 ^r	26,297,925 ^r	732,086,755 ^r
Manitoba	F	F	F	1,328,300 ^E	x	15,132,980 ^r	F	F	39,706,090 ^{Er}
Saskatchewan	F	x	F	854,125 ^{Er}	x	7,530,000	F	F	17,128,710 ^r
Alberta	8,068,020 ^r	F	14,094,070 ^{Er}	F	x	38,829,190 ^r	487,860 ^{Er}	F	78,666,645 ^r
British Columbia	38,109,290	52,192,660	81,837,440	33,107,760 ^{Er}	33,774,270 ^{Er}	25,372,550 ^r	2,670,230	9,687,125 ^{Er}	276,751,325 ^r
Canada	165,192,100^r	246,976,285^r	399,320,365^r	114,022,750^r	161,879,600^r	246,334,905^r	12,260,415^r	52,945,610^r	1,398,932,030^r
2010									
Newfoundland and Labrador	478,350	x	2,806,360	x	0	3,993,715	80,060	238,880	8,699,110
Prince Edward Island	x	x	x	0	0	2,088,650	x	x	3,520,750
Nova Scotia	F	597,525	F	62,240 ^E	0	9,426,665	210,610	310,570	17,678,680
New Brunswick	5,051,070	1,839,880	3,516,600	x	x	5,059,995	231,470	182,665	33,943,695
Quebec	40,372,460	14,624,780	44,801,685	12,620,195 ^E	7,125,560	47,812,570	3,548,210	F	176,191,895
Ontario	78,463,610	189,579,690	176,324,460	53,531,170	92,775,385	F	2,774,200	16,365,320	720,730,520
Manitoba	F	F	F	1,009,600	x	15,800,205	632,185 ^E	F	37,487,920
Saskatchewan	774,590 ^E	F	4,280,765 ^E	694,850	F	8,087,250	x	x	16,775,840
Alberta	7,580,910	2,051,800	17,380,100	5,717,310 ^E	x	36,282,260	666,380 ^E	4,019,290 ^E	74,087,050
British Columbia	40,063,110	54,455,770	94,682,660	39,546,050 ^E	25,051,300 ^E	22,192,750	1,269,715	6,779,405	284,040,760
Canada	179,356,365	265,923,570	363,952,275	114,428,005	143,303,405	261,660,745	9,496,470	35,035,385	1,373,156,220

1. Before sales tax.
2. Includes roadside stands and owner-operated retail outlets.

Table 12
Total value of greenhouse products

	2009				2010			
	Total flower and plant sales		Total fruit and vegetable sales	Total greenhouse sales	Total flower and plant sales		Total fruit and vegetable sales	Total greenhouse sales
	sales	resales			sales	resales		
	dollars							
Newfoundland and Labrador	6,560,930	F	209,180	9,065,900	6,599,110	2,100,000 ^E	F	8,913,160
Prince Edward Island	4,342,370 ^{Er}	0	F	4,797,760 ^r	3,520,750	0	356,470	3,877,220
Nova Scotia	10,605,830 ^E	F	F	29,551,230	9,230,090	8,448,590	4,966,645	22,645,325
New Brunswick	F	4,430,780 ^E	431,520 ^{Er}	39,654,300 ^r	31,246,655	2,697,040	F	34,753,510
Quebec	156,222,790 ^r	23,552,725 ^r	82,808,290 ^r	262,583,805 ^r	157,029,535	19,162,360	94,394,885	270,586,780
Ontario	558,431,060 ^r	173,655,695 ^{Er}	608,036,690 ^r	1,340,123,445 ^r	578,426,505	142,304,015	656,950,850	1,377,681,370
Manitoba	F	F	557,810	40,263,900 ^r	34,151,760	3,336,160	972,450 ^E	38,460,370
Saskatchewan	15,198,330 ^r	1,930,380 ^r	850,490 ^r	17,979,200 ^r	15,453,055	1,322,785	1,151,315	17,927,155
Alberta	71,882,250 ^r	6,784,395 ^r	33,818,390 ^r	112,485,035 ^r	69,316,320	4,770,730	41,554,150	115,641,200
British Columbia	244,380,555 ^r	32,370,770 ^r	245,938,065 ^r	522,689,390 ^r	251,582,440	32,458,320	276,536,875	560,577,635
Canada	1,137,874,435^r	261,057,595^r	980,261,935^r	2,379,193,965^r	1,156,556,220	216,600,000	1,077,907,505	2,451,063,725

Table 13
Total greenhouse operating expenses

	Plant material purchases for growing on ¹	Plant material purchases for resale ¹	Gross yearly payroll ²	Electricity ³	Natural gas
dollars					
2009					
Newfoundland and Labrador	1,282,370	F	2,629,860	220,330	0
Prince Edward Island	F	x	1,103,010 ^E	F	0
Nova Scotia	1,364,350	F	F	667,370 ^E	x
New Brunswick	F	1,500,000	12,317,670 ^E	633,702 ^E	F
Quebec	27,301,720 ^r	14,141,790 ^r	69,987,960 ^r	6,987,830 ^r	10,145,510 ^r
Ontario	151,423,350 ^r	44,657,845 ^r	286,959,430 ^r	33,852,975 ^r	116,765,220 ^r
Manitoba	7,202,330 ^{Er}	F	F	620,600	2,311,220 ^E
Saskatchewan	4,680,725 ^r	707,590 ^r	5,133,300 ^r	407,475 ^r	1,009,095 ^r
Alberta	12,278,010 ^r	4,372,715 ^r	34,450,925 ^r	4,214,929 ^r	9,566,210 ^r
British Columbia	69,608,800 ^r	19,631,720 ^{Er}	123,351,990 ^r	10,242,885 ^r	36,832,995 ^r
Canada	282,826,915 ^r	91,219,660 ^r	556,827,625 ^r	57,908,511 ^r	176,713,110 ^r
2010					
Newfoundland and Labrador	1,257,285	1,480,000 ^E	2,828,570	232,900	0
Prince Edward Island	902,005	x	750,550	53,400	0
Nova Scotia	1,982,410	1,992,155	6,861,380	498,745	x
New Brunswick	7,218,480	x	11,279,970	640,015	x
Quebec	28,207,625	12,128,250	74,985,370	6,782,110	10,952,790
Ontario	163,662,960	49,850,700 ^E	326,858,765	36,412,945	119,613,355
Manitoba	7,554,770	1,517,185 ^E	12,184,195	543,025	1,875,460
Saskatchewan	4,086,730	599,025	5,096,340	458,965	1,173,533
Alberta	15,420,950	3,397,840 ^E	33,945,620	3,848,940	9,003,060
British Columbia	71,930,365	21,379,800 ^E	128,820,210	12,644,145	39,772,800
Canada	302,223,580	92,767,335	603,610,970	62,115,190	182,463,968
	Heating oil	Other types of fuel	Other crop expenses	Other operating expenses	Total operating expenses
dollars					
2009					
Newfoundland and Labrador	600,980	F	988,230	1,117,950	8,453,670
Prince Edward Island	F	F	F	F	F
Nova Scotia	673,180	F	1,662,280	3,797,958 ^E	20,273,628 ^r
New Brunswick	719,980 ^E	x	F	F	F
Quebec	9,757,400 ^r	5,737,650 ^r	23,798,050 ^r	62,116,910 ^r	229,974,820 ^r
Ontario	25,994,980 ^r	15,532,230 ^r	141,187,330 ^r	307,297,260 ^r	1,123,670,620 ^r
Manitoba	113,900	F	F	7,962,670 ^{Er}	37,854,440 ^{Er}
Saskatchewan	F	F	1,971,800 ^r	2,609,295 ^r	17,118,035 ^r
Alberta	0	652,300 ^r	13,474,100 ^r	25,281,190 ^r	104,290,379 ^r
British Columbia	198,265 ^r	8,303,840	67,359,300 ^r	138,569,470 ^r	474,099,265 ^r
Canada	38,497,885 ^r	33,516,625 ^r	262,126,190 ^r	555,885,413 ^r	2,055,521,934 ^r
2010					
Newfoundland and Labrador	552,970	34,720	850,000	1,050,000	8,286,445
Prince Edward Island	195,500	x	395,245	565,255	2,873,355
Nova Scotia	x	1,133,295	1,621,380	3,894,760	18,556,645
New Brunswick	674,750	468,140	6,459,250	6,189,190	33,399,115
Quebec	9,993,200	5,959,740	23,312,810	56,904,060	229,225,955
Ontario	10,012,030	11,959,980	138,724,620	308,228,975	1,165,324,330
Manitoba	130,555 ^E	451,895	3,069,870	9,574,380	36,901,335
Saskatchewan	F	F	1,589,300	2,672,390	16,270,443
Alberta	0	674,210 ^E	12,719,140	26,753,920	105,763,680
British Columbia	265,815 ^E	11,062,250	68,885,550	143,526,135	498,287,070
Canada	22,496,840	32,224,260	257,627,165	559,359,065	2,114,888,373

1. Includes value of flowers, plants, cuttings, seedlings, seeds and bulbs purchased (before sales tax).

2. Includes seasonal and permanent labour.

3. Electricity expenses for lighting, airflow fans and heating.

Table 14
Specialized greenhouse vegetable operating expenses

	Plant material purchases for growing on ¹	Plant material purchases for resale ¹	Gross yearly payroll ²	Electricity ³	Fuel	Other crop expenses	Other operating expenses	Total operating expenses
dollars								
2009								
Atlantic provinces	F	0	F	198,580	F	F	F	F
Quebec	x	x	20,019,500 r	2,024,340 r	9,100,150 r	6,482,435 r	23,980,100 r	64,108,155 r
Ontario	41,824,920 r	0	118,538,010 r	16,772,700 r	101,207,510 r	70,172,270 r	155,298,150 r	503,813,560 r
Prairie provinces	2,440,220	x	8,956,160	2,279,630 E	6,256,310	F	10,884,250 E r	36,280,040 r
British Columbia	x	x	48,561,370	4,737,455 r	26,900,700 r	20,529,305 r	88,772,390 r	209,227,685 r
Canada	66,547,770 r	F	196,979,500 r	26,012,705 r	144,131,750 r	102,858,550 r	279,333,150 r	816,195,230 r
2010								
Atlantic provinces	119,235	F	934,535	211,010	588,360	412,905	358,905	2,626,655
Quebec	x	x	23,335,345	2,740,240	10,690,930	8,439,900 E	21,020,500 E	70,045,205 E
Ontario	45,820,745	F	130,426,520	18,085,130	92,635,710	65,848,235	159,939,430	512,873,445
Prairie provinces	x	x	9,876,485	2,360,110	6,333,995	5,401,825	10,910,995	37,823,650
British Columbia	x	x	55,114,575	5,913,650	34,191,650	28,471,030	92,806,625 E	234,826,170
Canada	70,983,305	F	219,687,460	29,310,140	144,440,645	108,573,895	285,036,455	858,195,125

1. Includes value of plants, seedlings, seeds and bulbs purchased (before sales tax).

2. Includes seasonal and permanent labour.

3. Electricity expenses for lighting, airflow fans and heating.

Table 15
Specialized greenhouse flower and plant operating expenses

	Plant material purchases for growing on ¹	Plant material purchases for resale ¹	Gross yearly payroll ²	Electricity ³	Fuel	Other crop expenses	Other operating expenses	Total operating expenses
dollars								
2009								
Atlantic provinces	9,749,380 E	F	21,014,820	1,206,370	3,058,020	F	8,610,640 E	57,566,960
Quebec	21,712,250 r	13,128,870 r	38,671,685 r	3,814,835 r	12,819,740 r	12,577,900 r	27,862,660 r	130,587,940 r
Ontario	101,586,025 r	28,615,720 r	150,905,140 r	13,949,200 r	47,158,540 r	58,535,315 r	112,950,850 r	513,700,790 r
Prairie provinces	22,758,680	6,979,110	45,857,300 r	2,875,280	9,113,700	14,087,190	26,487,170	128,158,430 r
British Columbia	46,037,950 r	F	52,232,220 r	3,820,600 r	12,941,300 r	30,473,105 r	37,222,945 r	200,970,130 r
Canada	201,844,285 r	71,729,860 r	308,681,165 r	25,666,285 r	85,091,300 r	124,837,090 r	213,134,265 r	1,030,984,250 r
2010								
Atlantic provinces	10,882,235	3,828,610	19,389,920	1,063,520	2,416,280	8,206,400	9,597,565	55,384,530
Quebec	21,685,140	11,191,615	41,648,565	3,280,870	11,078,745	11,223,135	27,055,500	127,163,570
Ontario	109,118,300	32,824,180 E	165,177,420	14,796,050	41,776,980	59,057,720	111,623,300	534,373,950
Prairie provinces	20,866,595	4,495,660	38,544,790	2,303,500	6,958,350	10,914,600	22,503,720	106,587,215
British Columbia	38,215,860	21,194,120 E	54,626,710	4,355,790	11,098,350	29,131,115	44,629,100	203,251,045
Canada	200,768,130	73,534,185	319,387,405	25,799,730	73,328,705	118,532,970	215,409,185	1,026,760,310

1. Includes value of flowers, plants, cuttings, seedlings, seeds and bulbs purchased (before sales tax).

2. Includes seasonal and permanent labour.

3. Electricity expenses for lighting, airflow fans and heating.

Note(s): Excludes vegetable bedding plant producers.

Table 16
Labour - Total greenhouse employees

	2009			2010		
	Total greenhouse employees			Total greenhouse employees		
	Seasonal ¹	Permanent ²	Total	Seasonal ¹	Permanent ²	Total
	number					
Newfoundland and Labrador	265 ^r	55 ^r	320 ^r	270	60	330
Prince Edward Island	130 ^E	15	145	85	15	100
Nova Scotia	490	F	700	460	160	620
New Brunswick	590	F	1,000	515	335	850
Quebec	4,350 ^r	2,000 ^r	6,350 ^r	4,250	1,930	6,180
Ontario	9,630 ^r	7,090 ^r	16,720 ^r	9,385	7,405	16,790
Manitoba	910 ^r	230 ^r	1,140 ^r	865	240	1,105
Saskatchewan	900 ^r	175	1,075 ^r	865	175	1,040
Alberta	2,465 ^r	980 ^r	3,445 ^r	2,140	1,150 ^E	3,290
British Columbia	3,520 ^r	3,060 ^r	6,580 ^r	3,610	3,000	6,610
Canada	23,250 ^r	14,225 ^r	37,475 ^r	22,445	14,470	36,915

1. Seasonal employees who worked less than 8 months during the year.

2. Permanent employees who worked more than 8 months during the year.

Note(s): Includes mixed operations (vegetables, flowers and plants).

Table 17
Labour - Specialized greenhouse operations

	Greenhouse vegetable employees			Greenhouse flower and plant employees		
	Seasonal ¹	Permanent ²	Total	Seasonal ¹	Permanent ²	Total
	number					
2009						
Atlantic provinces	100	40 ^E	140	1,140 ^r	590 ^E	1,730 ^r
Quebec	590 ^r	725 ^r	1,315 ^r	2,790 ^r	970 ^r	3,760 ^r
Ontario	2,940 ^r	2,670 ^r	5,610 ^r	5,725 ^r	3,950 ^r	9,675 ^r
Prairie provinces	260	370	630	3,790	980	4,770
British Columbia	1,090	935	2,025	1,585 ^r	1,490 ^r	3,075 ^r
Canada	4,980 ^r	4,740 ^r	9,720 ^r	15,030 ^r	7,980 ^r	23,010 ^r
2010						
Atlantic provinces	125	55	180	1,030	490	1,520
Quebec	695	855	1,550	2,820	850	3,670
Ontario	2,970	2,580	5,550	5,415	4,090	9,505
Prairie provinces	265	360	625	3,160	1,160 ^E	4,320
British Columbia	1,305	970	2,275	1,590	1,555	3,145
Canada	5,360	4,820	10,180	14,015	8,145	22,160

1. Seasonal employees who worked less than 8 months during the year.

2. Permanent employees who worked more than 8 months during the year.

Note(s): Excluding mixed operations (vegetables, flowers and plants).

Table 18
Nursery area

	Total nurseries	Total field area		Total container area		Total nursery area	
	number	acres	hectares	acres	hectares	acres	hectares
2009							
Newfoundland and Labrador	10	20 ^{Er}	8 ^{Er}	10 ^E	4 ^E	30 ^r	12 ^r
Prince Edward Island	0	0	0	0	0	0	0
Nova Scotia	20	F	F	30 ^E	12 ^E	350 ^E	142 ^E
New Brunswick	15	F	F	F	F	F	F
Quebec	225	4,800 ^r	1,942 ^r	900 ^r	364 ^r	5,700 ^r	2,307 ^r
Ontario	455 ^r	21,520 ^r	8,709 ^r	2,005 ^r	811 ^r	23,525 ^r	9,520 ^r
Manitoba	30	830	336	110	45	940	380
Saskatchewan	40	1,540 ^{Er}	623 ^{Er}	75 ^r	30 ^r	1,615 ^{Er}	654 ^{Er}
Alberta	170	4,760 ^r	1,926 ^r	3,280	1,327	8,040 ^r	3,254 ^r
British Columbia	330 ^r	6,350	2,570	2,540 ^{Er}	1,028 ^{Er}	8,890 ^r	3,598 ^r
Canada	1,295	40,360^r	16,333^r	9,000^r	3,642^r	49,360^r	19,975^r
2010							
Newfoundland and Labrador	10	x	x	15	6	F	F
Prince Edward Island	0	0	0	0	0	0	0
Nova Scotia	20	280	113	30	12	310	125
New Brunswick	15	F	F	F	F	F	F
Quebec	210	4,860	1,967	900	364	5,760	2,331
Ontario	415	21,385	8,654	2,145	868	23,530	9,522
Manitoba	40	825	334	135	55	960	388
Saskatchewan	35	1,175	476	65	26	1,235	500
Alberta	195	5,400	2,185	F	F	8,090	3,274
British Columbia	340	6,070	2,456	2,930	1,186	9,000	3,642
Canada	1,280	40,200	16,268	8,955	3,624	49,155	19,892

Table 19
Nursery tree and plant production (field and container)

	Coniferous trees	Fruit trees	Shade or ornamental trees	Coniferous evergreen shrubs	Evergreen broadleaf shrubs	Deciduous shrubs (including roses)	Vines	Perennials and annuals	Small fruit bushes	Nursery tree seedlings ¹	Other trees and plants
	number										
2009											
Field grown											
Atlantic provinces	F	F	F	F	F	F	x	F	F	x	0
Quebec	1,034,910 ^{Er}	84,270 ^{Er}	41,280 ^{Er}	F	F	F	x	F	17,368,040 ^{Er}	F	570,050 ^{Er}
Ontario	1,054,875 ^r	441,370 ^r	806,655 ^r	410,790 ^r	134,600 ^r	934,755 ^{Er}	1,707,980 ^{Er}	F	x	F	x
Prairie provinces	159,545 ^r	83,275 ^r	139,785 ^r	F	F	116,760 ^r	F	F	99,035 ^r	419,970 ^r	5,415 ^r
British Columbia	2,315,570 ^{Er}	F	F	538,405 ^{Er}	F	F	F	F	F	F	F
Canada	4,567,970 ^r	1,423,935 ^r	F	1,045,210 ^r	543,685 ^r	2,756,650 ^r	1,741,850 ^{Er}	F	54,434,875 ^{Er}	8,317,540 ^r	603,015 ^{Er}
Container grown											
Atlantic provinces	F	F	3,860 ^{Er}	12,550 ^{Er}	F	F	4,200 ^{Er}	F	F	F	x
Quebec	281,445 ^{Er}	F	93,440 ^{Er}	F	693,730 ^{Er}	636,640 ^r	93,660 ^{Er}	F	F	31,549,305 ^{Er}	x
Ontario	295,000 ^r	F	230,725 ^r	1,098,645 ^r	863,030 ^r	3,600,410 ^r	279,160 ^{Er}	5,058,080 ^{Er}	24,330 ^r	F	F
Prairie provinces	F	14,215 ^r	118,025 ^r	F	F	1,167,190 ^r	23,135 ^r	644,095 ^r	30,340 ^r	10,911,480 ^r	x
British Columbia	F	F	903,210 ^{Er}	2,036,820 ^{Er}	1,992,685 ^r	2,921,040 ^r	350,000 ^{Er}	F	F	F	346,030 ^{Er}
Canada	10,073,620 ^{Er}	224,245 ^r	1,349,260 ^r	3,937,330 ^r	3,568,815 ^r	8,360,025 ^r	750,155 ^r	14,599,100 ^r	689,300 ^r	F	634,080 ^r
2010											
Field grown											
Atlantic provinces	F	x	F	x	x	0	0	764,420 ^E	x	0	x
Quebec	F	F	36,915 ^E	F	F	8,850 ^E	x	F	F	F	F
Ontario	427,995 ^E	F	F	532,160	117,975	637,695	F	F	F	9,232,610 ^E	F
Prairie provinces	199,330	66,965 ^E	139,740	6,220	F	F	6,490	F	34,020 ^E	462,550	F
British Columbia	F	F	F	F	60,510 ^E	F	F	F	F	F	F
Canada	2,827,810	1,098,980	F	1,184,965 ^E	235,000	1,960,175	F	2,860,355 ^E	F	11,448,695 ^E	F
Container grown											
Atlantic provinces	8,360 ^E	570	5,645	F	14,145	F	F	F	F	F	x
Quebec	335,540	28,300 ^E	64,590	321,010 ^E	F	627,925 ^E	F	F	F	66,145,760 ^E	F
Ontario	319,520	F	F	1,475,835	783,375	4,262,425	155,435	F	30,130	52,041,840 ^E	F
Prairie provinces	58,510 ^E	F	114,340	F	F	660,005 ^E	19,560 ^E	F	44,230 ^E	32,799,630 ^E	F
British Columbia	F	F	F	2,036,510	1,718,840	3,838,600	425,250	6,104,370 ^E	F	F	F
Canada	2,282,190 ^E	254,625 ^E	F	4,248,225	3,188,240	9,422,275	687,605	12,738,040	902,125	374,889,185	F

1. As of 2010, tree seedlings produced for reforestation have been transferred from Table 9 to Table 19.

Table 20
Nursery stock sales and resales¹

	2009			2010		
	Nursery stock sales	Nursery resales ²	Total sales	Nursery stock sales	Nursery resales ²	Total sales
	dollars					
Newfoundland and Labrador	F	F	F	250,910	x	x
Prince Edward Island	x	F	F	0	x	x
Nova Scotia	F	F	7,890,680 ^{Er}	6,365,945	1,228,755	7,594,700
New Brunswick	F	F	F	F	1,016,280	4,752,115 ^E
Quebec	62,035,420 ^r	14,219,580 ^r	76,255,000 ^r	60,541,975	14,244,490	74,786,465
Ontario	208,489,630 ^r	74,803,100 ^r	283,292,730 ^r	214,597,275	69,918,720	284,515,995
Manitoba	10,629,740 ^r	2,362,650 ^E	12,992,390 ^r	11,834,140 ^E	2,547,200	14,381,340 ^E
Saskatchewan	5,403,830 ^{Er}	1,872,900 ^r	7,276,730 ^r	6,435,580	1,887,435	8,323,015
Alberta	25,031,760 ^r	14,930,090 ^r	39,961,850 ^r	31,956,495	8,944,000	40,900,495
British Columbia	160,371,820 ^r	43,320,065 ^r	203,691,885 ^r	175,274,505	32,784,860	208,059,365
Canada	481,897,010^r	153,991,715^r	635,888,725^r	510,992,660	132,795,070	643,787,730

1. Before sales tax.

2. The process of buying trees, shrubs, plants, seedlings, cuttings, etc. and selling it within a short time period with minimal care or maintenance.

Table 21
Nursery sales distribution ¹

	Direct sales to the public ²	Fruit growers	Landscape contractors	Garden centres	Mass market chain stores
dollars					
2009					
Atlantic provinces	5,266,270 ^E	F	F	F	0
Quebec	13,819,780 ^r	1,725,590 ^r	15,122,810 ^r	21,807,135 ^r	F
Ontario	19,841,710 ^r	8,361,585 ^r	74,578,825 ^r	78,138,690	51,456,500 ^r
Prairie provinces	16,234,365 ^r	914,235 ^r	25,896,750 ^r	6,648,260 ^r	462,100 ^{Er}
British Columbia	F	6,596,500 ^E	37,412,470 ^r	41,069,340 ^r	24,700,160
Canada	68,135,615 ^r	19,356,550 ^{Er}	154,179,791 ^r	148,309,689 ^r	84,583,000 ^r
2010					
Atlantic provinces	5,148,825	x	1,862,300	581,825	x
Quebec	15,600,960	F	19,351,435	13,215,970	3,868,440 ^E
Ontario	22,834,545	7,653,760 ^E	78,009,685	64,996,480	54,997,110 ^E
Prairie provinces	16,079,045	2,405,805	23,116,240	7,537,680 ^E	F
British Columbia	7,358,210	6,673,800 ^E	36,499,135	54,805,790	27,032,485
Canada	67,021,585	21,563,215	158,838,795	141,137,745	86,570,130
	Other growers	Exported	Government and public agencies	Other channels	Total sales
dollars					
2009					
Atlantic provinces	F	250,000 ^r	F	F	12,418,140 ^r
Quebec	4,306,150 ^r	F	8,566,745 ^r	648,180 ^{Er}	76,255,000 ^r
Ontario	20,170,220 ^r	12,249,695 ^r	8,016,890 ^r	10,478,615 ^r	283,292,730 ^r
Prairie provinces	2,842,800 ^r	1,506,675 ^r	2,407,935 ^r	3,317,850 ^r	60,230,970 ^r
British Columbia	15,016,950 ^r	8,040,165 ^E	F	F	203,691,885 ^r
Canada	42,342,330 ^r	24,340,905 ^{Er}	47,243,470 ^r	47,397,375 ^r	635,888,725 ^r
2010					
Atlantic provinces	108,805 ^E	x	F	x	12,821,055
Quebec	3,068,430	F	14,630,835	900,810 ^E	74,786,465
Ontario	22,739,370	9,674,280	12,034,175	11,576,590	284,515,995
Prairie provinces	2,855,260	274,075 ^E	2,579,215	8,095,560 ^E	63,604,850
British Columbia	20,422,205	13,998,255 ^E	9,732,510	F	208,059,365
Canada	49,194,070	25,110,645	40,960,970	53,390,575	643,787,730

1. Before sales tax.

2. Includes roadside stands and owner-operated retail outlets.

Table 22
Sod area, sales and resales

	Total sod operations	Total sod area		Sod area grown for sale		Gross sales	
						Revenue from sod grown	Revenue from sod resale
	number	acres	hectares	acres	hectares	dollars	
2009							
Newfoundland and Labrador	20	740	299	480 ^E	194 ^E	2,883,510	x
Prince Edward Island	5	x	x	x	x	x	0
Nova Scotia	15	F	F	F	F	F	x
New Brunswick	10	F	F	F	F	F	F
Quebec	50	11,110 ^r	4,496 ^r	5,925 ^r	2,398 ^r	28,183,500 ^r	820,450 ^r
Ontario	65	26,160 ^r	10,587 ^r	9,395 ^r	3,802 ^r	47,577,255 ^r	805,345 ^r
Manitoba	10	740	299	190	77	976,470	0
Saskatchewan	5	x	x	x	x	x	0
Alberta	15 ^r	12,745 ^r	5,158 ^r	4,675 ^r	1,892 ^r	33,947,275 ^r	F
British Columbia	15	1,375 ^{Er}	556 ^{Er}	980 ^{Er}	397 ^{Er}	8,812,080 ^r	x
Canada	210^r	57,090^r	23,103^r	23,205^r	9,391^r	132,510,370^r	F
2010							
Newfoundland and Labrador	20	760	308	500	202	3,648,405	x
Prince Edward Island	5	x	x	x	x	x	x
Nova Scotia	10	2,175	880	715	289	4,817,660	x
New Brunswick	5	F	F	F	F	F	0
Quebec	50	10,735	4,344	5,545	2,244	27,014,175	F
Ontario	65	27,555	11,151	10,390	4,205	53,019,775	F
Manitoba	10	960 ^E	388 ^E	215 ^E	87 ^E	1,159,200 ^E	0
Saskatchewan	5	710	287	270	109	2,507,160	x
Alberta	20	14,590	5,904	4,540	1,837	35,338,625	F
British Columbia	15	1,360 ^E	550 ^E	975 ^E	395 ^E	7,873,860 ^E	0
Canada	205	59,610	24,123	23,510	9,514	136,882,740	F

Table 23
Nursery and sod producers' operating expenses

	Nursery				
	Plant material purchases for growing on ¹	Plant material purchases for resale ¹	Gross yearly payroll ²	Other operating expenses	Total operating expenses
	dollars				
2009					
Newfoundland and Labrador	F	F	F	49,970 ^{Er}	F
Prince Edward Island	x	x	F	0	F
Nova Scotia	F	F	2,100,130 ^E	F	4,881,500 ^{Er}
New Brunswick	F	F	F	F	F
Quebec	13,081,370 ^r	7,987,940 ^r	25,624,495 ^r	20,712,945	67,406,750 ^r
Ontario	29,710,215 ^r	41,669,400 ^r	93,757,960 ^r	94,837,250 ^r	259,974,825 ^r
Manitoba	1,269,520	1,356,130	4,974,510	5,455,630	13,055,790
Saskatchewan	F	628,140 ^r	4,116,530 ^r	F	9,674,945 ^{Er}
Alberta	3,823,630 ^r	7,753,110 ^r	12,449,060 ^r	8,325,950 ^r	32,351,750 ^r
British Columbia	17,318,300 ^r	19,572,465 ^r	59,553,625 ^r	74,484,755 ^r	170,929,145 ^r
Canada	66,905,955 ^r	80,205,535 ^r	205,224,340 ^r	211,923,275 ^r	564,259,105 ^r
2010					
Newfoundland and Labrador	F	103,691 ^E	202,800	54,345	391,235
Prince Edward Island	0	x	x	0	x
Nova Scotia	906,690 ^E	270,700	2,577,250	913,670	4,668,310
New Brunswick	228,190	x	F	F	F
Quebec	9,994,440	10,435,740	24,910,945	22,896,245	68,237,370
Ontario	32,851,125	44,656,510	104,517,800	90,667,140	272,692,575
Manitoba	2,165,240 ^E	1,253,345	5,511,895 ^E	5,861,390 ^E	14,791,870 ^E
Saskatchewan	304,150	654,950	3,259,755	2,767,790	6,986,645
Alberta	3,683,620	6,365,190	13,309,215	10,927,510	34,285,535
British Columbia	25,834,065	14,435,835	69,241,490	60,045,360	169,556,750
Canada	75,997,919	78,551,086	226,019,565	196,507,815	577,076,385
	Sod				
	Purchases for resale	Gross yearly payroll ²	Other operating expenses	Total operating expenses	
	dollars				
2009					
Newfoundland and Labrador	x	1,086,350	x		2,409,660
Prince Edward Island	0	x	x		x
Nova Scotia	x	F	F		F
New Brunswick	F	F	F		F
Quebec	596,210 ^r	8,299,310 ^r	13,817,530 ^r		22,713,050 ^r
Ontario	590,600 ^r	17,041,850 ^r	24,350,160 ^r		41,982,610 ^r
Manitoba	0	107,060 ^E	409,410 ^E		516,470
Saskatchewan	0	x	x		x
Alberta	F	8,689,050 ^r	15,047,315 ^{Er}		28,357,055 ^{Er}
British Columbia	x	2,633,245 ^r	x		5,626,910 ^r
Canada	F	41,605,525 ^r	62,345,315 ^r		110,019,015 ^r
2010					
Newfoundland and Labrador	96,820 ^E	1,267,195	1,744,870		3,108,885
Prince Edward Island	x	x	x		x
Nova Scotia	x	1,219,820	x		3,327,745
New Brunswick	0	F	F		F
Quebec	F	8,802,330	17,491,605		27,112,810
Ontario	789,100	20,776,615	27,272,870		48,838,585
Manitoba	0	173,290 ^E	F		F
Saskatchewan	x	1,028,280	x		1,874,775
Alberta	F	9,844,150	16,424,210		31,336,275
British Columbia	0	2,479,415	1,779,610 ^E		4,259,025 ^E
Canada	F	46,385,350	68,807,965		122,096,425

1. Includes value of trees, nursery stock, bedding plants, seedlings, cuttings or bulbs purchased (before sales tax).

2. Includes seasonal and permanent labour.

Table 24
Nursery and sod labour

	Nursery			Sod		
	Seasonal ¹	Permanent ²	Total	Seasonal ¹	Permanent ²	Total
	number					
2009						
Newfoundland and Labrador	15 ^r	5 ^r	20 ^E	80	10	90
Prince Edward Island	F	x	F	x	0	x
Nova Scotia	235 ^E	F	265 ^E	F	F	F
New Brunswick	F	F	F	F	x	F
Quebec	2,090 ^r	430 ^r	2,520 ^r	365 ^r	80	445 ^r
Ontario	3,435 ^r	1,690	5,125 ^r	495 ^r	175 ^r	670 ^r
Manitoba	290	70	360	x	x	30
Saskatchewan	370	115 ^r	485 ^r	x	x	x
Alberta	670 ^r	265 ^r	935 ^r	170 ^r	55 ^r	225 ^r
British Columbia	2,775 ^r	1,300 ^r	4,075 ^r	50 ^r	F	120 ^r
Canada	10,010 ^r	3,980 ^r	13,990 ^r	1,330 ^r	470 ^r	1,800 ^r
2010						
Newfoundland and Labrador	20	5	25	95	10	105
Prince Edward Island	x	x	x	x	x	x
Nova Scotia	250	35	285	60	20	80
New Brunswick	x	F	x	F	F	F
Quebec	1,970	440	2,410	330	130	460
Ontario	3,810	1,710	5,520	615	205	820
Manitoba	260	110	370	x	x	35
Saskatchewan	245	85	330	40	10	50
Alberta	760	275	F	145	75	220
British Columbia	2,865	1,360	4,225	35	F	105
Canada	10,300	4,100	14,400 ^E	1,385	550	1,935

1. Seasonal employees who worked less than 8 months during the year.
2. Permanent employees who worked more than 8 months during the year.

Methodology

Introduction

Statistics Canada has conducted an annual survey of the greenhouse industry since 1955, of the nursery industry since 1956 and of the sod industry since 1982. The survey is designed to provide an indication of the economic situation of the primary greenhouse, sod and nursery stock production industries. The survey is designed to provide insight into the general economic situation of the industry. To this end, data are provided on market structure and production inputs.

The survey is designed to collect information on area planted, labour, payroll, cost for growing-on and for resale, gross revenues, as well as the distribution of gross sales by channel of distribution.

The greenhouse target population includes all of the commercial greenhouse growers as identified by the 2006 Census of Agriculture and reconciled with the previous known population. For the sod and nursery operations, the survey focuses on operations that grow some or all the commodities they sell. As a result, firms that only distribute sod or nursery stock, or just landscape and lay sod are excluded from the survey. The survey is also designed to estimate the total value added of the agricultural side of nursery/sod but also picks up value added from the non-growing (i.e. marketing) portion of each operation. Note too that value added from landscaping and laying sod is excluded from the revenue estimates even when the responding firm grows nursery stock or sod. The survey estimates for greenhouses, sod farms and nurseries are calculated using probability sampling methods.

Concepts and definitions

Greenhouse industry

Prior to 1986, the target population included all commercial greenhouse growers. In 1986, the target population was redefined to include only commercial greenhouse growers with a growing area of 7,500 square feet or more.

In 1992, it was decided to include all of the commercial greenhouse growers as identified by the 1991 Census of Agriculture and reconciled with the previous known population. Due to the changed methodology, the estimates since 1992 are not comparable with the corresponding 1991 estimates.

A greenhouse can be defined as an operation where plants are grown under glass, plastic or similar type of protection. Since 2008, we also ask respondents to report area under poly-film or polyethylene.

A breakdown of sales, indicating channels of distribution and flower varieties sold, assists in the determination of the market structure. All sales figures published represent prices paid to the grower. Data collected on important inputs of production include the number of employees, gross yearly payroll, total investment and area operated under glass and plastic.

Greenhouse operating expenses include payroll, plant material purchases, heating, lighting, ventilation costs, other crop expenses (fertilizer, pesticides, and growing mediums) and other operating expenses (interest, land taxes, insurance, packaging, repairs to farm buildings, machinery, equipment and vehicles, and contract work). Since 2008, electricity expenses for lighting, airflow fans and heating are reported inside a specific expense item.

The concept for full-time employment was revised for Greenhouse, Sod and Nursery (GSN) 2003 data in accordance with the definition used at Statistics Canada and endorsed by the International Labour Organization. Full-time employment consists of persons who usually work 30 hours or more per week at their main or only job. Prior to 2003, full-time employment was defined as persons working 8 months or longer and part-time employment consisted of

persons working less than 8 months of the year. Since 2008, respondents to the survey must report the number of seasonal workers (less than 8 months contract) and permanent (more than 8 months contract).

The tables for cut flowers, potted plants, cuttings and propagating material have been updated to reflect changes in the industry.

Nursery and sod industry

Before 1992, estimates essentially pertained to commercial operations that allocated a portion of their surface area to sod or seedlings and had annual gross sales of \$75,000 or more. Since 1992, estimates have pertained to nurseries with 5 acres or more, and sod operations of 40 acres or more in regions other than the Atlantic (10 acres or more in the Atlantic region).

The survey estimates in previous years were simply a tabulation of all responding operations fitting the above two criteria. Due to the changed methodology, the 1992 and subsequent estimates are not directly comparable with the corresponding 1991 estimates.

The survey collects dollar data on two commodities: sod and nursery stock. Sod is a standard commodity whereas nursery stock requires precise definition. The term "nursery stock" covers a diverse range of non-edible, living plant material grown in field or in containers and sold with its root system intact. Nursery stock includes annual and perennial plants ranging from woody plants (e.g. trees, shrubs and rose bushes) to bedding plants and potted outdoor flowers.

The end purpose of the plants may be ornamental or functional (e.g. fruit trees, grape vines and forestry seedlings). Plant sizes range from seedlings to fully grown trees. "Nursery stock" excludes Christmas trees and various inputs such as growing medium (e.g. peat moss and top soil), fertilizer and pesticides. Since 2008, nursery and sod operating expenses are separated.

Methodology and data quality

Survey frame

The survey frame has been designed to include all operations cultivating greenhouse, sod and nursery products based on the latest Census of Agriculture. Institutional farms, farms on Indian reservations, Hutterite colonies as well as operations from Yukon, Northwest Territories and Nunavut were excluded from the survey. After these exclusions, the remaining farms represent the initial survey frame.

Observations on the 2010 survey frame were extracted from the 2009 Annual Greenhouse, Sod and Nursery Survey frame and the 2006 Census of Agriculture, to which were added some operations coming from external sources. The new operations are either new farms since the 2006 Census or farms missed by the 2006 Census.

Excluded from the survey frame were areas of glass or plastic greenhouses maintained for non-commercial plants. Also excluded were greenhouse-only operations in Quebec, Ontario and British Columbia with less than 5,000 square feet and sales of less than \$10,000. Greenhouse-only operations in the remaining provinces with less than 1,000 square feet were excluded from the survey frame. Furthermore, sod-only operations with less than 40 acres (10 acres in the Atlantic) and nursery-only operations with less than 5 acres were excluded from the survey frame.

Sample selection

For each province, four strata were defined. The first stratum includes operations with a greenhouse area of less than 1 acre, sales of less than \$110,000, no nursery or sod area, and that reported flower production in the 2006 Census of Agriculture. The second stratum includes all operations with a greenhouse area of less than 1 acre, sales of less than \$110,000, no nursery or sod area, and that did not report flower production in the 2006 Census of Agriculture. The third stratum includes all operations with a greenhouse area of less

than 1 acre, sales of less than \$110,000, nursery area greater than zero and less than 5 acres, and no sod area. All remaining operations were placed in the fourth stratum. Within each province, operations were sampled in the first three strata and a census was taken of all units in the fourth stratum. For each stratum where sampling was done, the minimum sample size was 15 and the maximum design weight was 5.

Overall, the sample size was determined in order to achieve a target CV of 0.01 (1%) for sales, greenhouse area and nursery area at the provincial level. The final sample size for this survey was 5,452.

For this survey, we used two questionnaire versions: one full version requesting all the required information and one abridged version that essentially only requests totals. Following the sample selection, we allocated one of the two versions of the questionnaire to each operation sampled. The allocation was done based on province of operation and sales volume. We allocated the full version to 4,061 operations and the abridged version to 1,391 operations.

Data collection

The reference period for this survey is calendar year 2010. Respondents received a copy of the questionnaire through the mail in early December 2010 and most were interviewed by telephone between January 10 and January 30, 2011.

Data collection for the 2010 Annual Greenhouse, Sod and Nursery Survey was undertaken using a "Computer Assisted Telephone Interview" (CATI) system. Some respondents, who have previously mentioned that they did not want to be interviewed over the phone, mailed back the questionnaire to the Ottawa Head Office.

During the data collection period, some respondents asked to not be interviewed over the phone. They were asked to complete the questionnaire and send it back to the Ottawa Head Office.

Response rates

Information was received from nearly 80.4% of the sample. Non-responding units (i.e. no-contacts and refusals) are dealt with by adjusting the initial sample weights (raising factor adjustment).

Edit and imputation

With the introduction of the CATI methodology, it is now possible to implement edit procedures at the time of the interview. Computer programmed edit checks in the CATI system inform interviewers during the interview of possible data errors, which can then be corrected immediately by the interviewer and respondent. The CATI system significantly reduces the need for subsequent telephone follow-up, thereby reducing respondent burden and survey processing time. Erroneous data and partially completed questionnaires are imputed using historical data.

Sampling and non-sampling errors

The statistics contained in this publication are based on a random sample of agricultural operations and, as such, are subject to sampling and non-sampling errors. The overall quality of the estimates depends on the combined effect of these two types of errors. Sampling errors arise because estimates are derived from sample data and not from the entire population. Sampling error is quantified using the coefficient of variation (CV). The lower the CV, the smaller the sampling error.

Non-sampling errors are errors which are not related to sampling and may occur throughout the survey operation for many reasons. For example, non-response is an important source of non-sampling error. Coverage, differences in the interpretation of questions, incorrect information from respondents, errors in recording, coding and processing of data are other examples of non-sampling errors.

Estimation

We weighted the information collected from the respondents to produce estimates representative of all of the operations in the greenhouse, sod and nursery industry in our survey frame. We produced estimates at the national and provincial level for different totals and sub-totals of industry variables. During the weighting, we took into consideration both versions of the questionnaires and ensured that all of the estimates produced for all variable types remained representative of all of the operations in the survey frame.

Revisions

For each publication, we release a set of preliminary estimates for the current reference year and a set of revised estimates for the previous reference year. In this publication, if you look at the revised estimates for reference year 2009, you will notice some revisions larger than usual. At the Canada level, for variables asked on both types of questionnaires, we generally revised the estimates downward by around 3%. For variables asked only on the full version of the questionnaire, we generally revised the estimates upward by around 10%.

This is due to some modifications we made to our weighting process. We have identified and fixed certain technical issues related to this process. Revised estimates for reference year 2009 and preliminary estimates for reference year 2010 included in this publication were derived after we had fixed these technical issues.

Data quality

The estimates in this publication are based on a probability sample of farming operations. The potential error introduced by sampling can be estimated from the sample itself by using a statistical measure called the coefficient of variation (CV). Over repeated surveys, 95 times out of 100, the relative difference between a sample estimate and what would have been obtained from an enumeration of all farming operations would be less than twice the coefficient of variation. The sample estimate plus or minus twice the CV is referred to as the confidence interval.

For the 2010 Annual Greenhouse, Sod and Nursery Survey, CVs at the Canada level range generally from 2% to 10% for the variables that are more frequently reported (area, investment, expenditures, sales, etc.), which makes them very reliable. Some variables on plant, flower and tree varieties have CVs greater than 25%. The coefficients of variation are available upon request.

To improve data qualification, the symbols E and F have been introduced into the publication. An E means that the data are widely dispersed and that the estimate should be used with caution. An F replaces the estimate where the data are too unreliable for publication.