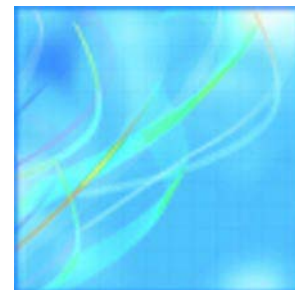


Catalogue no. 22-202-X

Greenhouse, Sod and Nursery Industries



2011



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Statistics Canada
Agriculture Division
Crops Section

Greenhouse, Sod and Nursery Industries

2011

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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
- * significantly different from reference category ($p < 0.05$)

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Crops Section
- **Lorie Shinder**, Head,
Horticulture Unit
- **Serge DesRoches**, Survey Manager,
Horticulture unit

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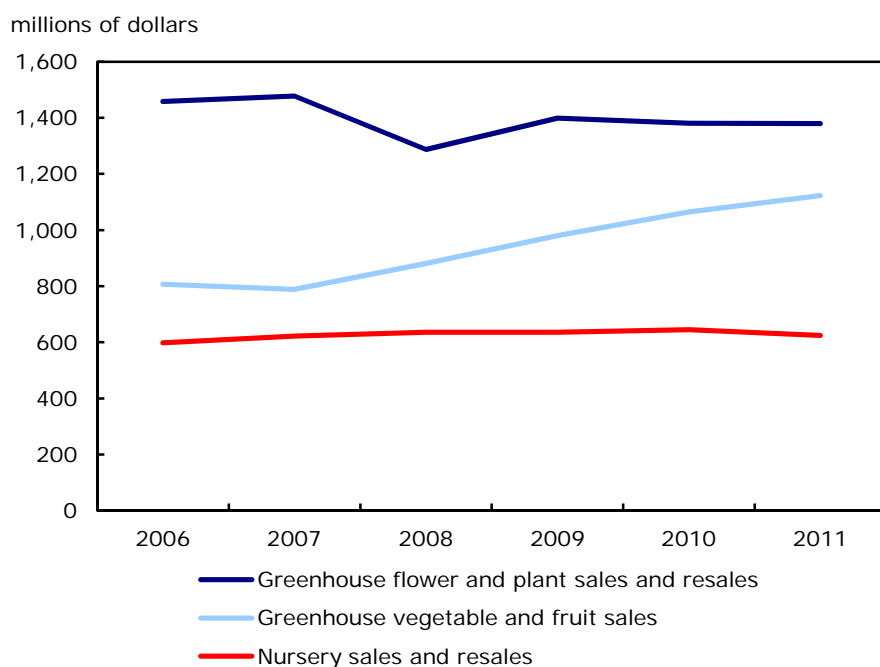
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Highlights

Overall trends

Total greenhouse area continued to increase in 2011. This situation was accompanied by an increase in sales of greenhouse products. This growth was only seen in greenhouse vegetable and fruit sales. The sod and nursery sectors experienced a slight decrease in sales.

Chart 1
Sales of greenhouse and nursery products, Canada, 2006 to 2011



In 2011, total greenhouse area was 23.0 million square metres, compared with 22.5 million square metres in 2010. Sales of greenhouse products increased 2.3% amounting to approximately \$2.5 billion in 2011. Compared to 2010, sales of flowers and plants decreased by 0.1%, while vegetable sales increased by 5.5%.

Greenhouse operations increased their total operating expenses by 0.3% reaching \$2.1 billion. Labour costs totalled \$616 million and represented 29.2% of total greenhouse operating expenses. For comparison, nursery salary expenses grew by 1.2% to reach \$230 million in 2011. Total operating expenses for nurseries amounted to \$582 million and \$112 million for sod operations.

Greenhouse flowers and plants

Production of flowers and plants accounted for 55.1% of total sales of greenhouse products in 2011. Sales and resales of flowers and plants decreased 0.1% to reach \$1.4 billion. Resale of flowers and plants amounted to 16.6% of total flower and plant sale share.

Production of potted flowers and plants was still ranked first with sales of \$669 million. Sales of ornamental bedding plants and cut flowers reached \$158 and \$136 million respectively. Vegetable bedding plant sales rose to \$103 million compared to \$74.0 million for cuttings in 2011.

In 2011, Canadian greenhouses produced 208 million potted flowers and plants, 285 million cut flowers, 440 million ornamental bedding plants, 932 million vegetable bedding plants and 103 million cuttings.

Expenses for specialized greenhouse flower and plant producers increased 4.0% which amounted to \$1.1 billion. Labour costs represented 30.0% of total costs for greenhouses specializing in the production of flowers and plants. Although labour costs increased 0.2% between 2010 and 2011, total number of employees decreased 7.1%, representing 20,585 employees.

Greenhouse vegetables and fruits

From 2010 to 2011, sales of greenhouse fruits and vegetables increased by 5.5% to reach \$1.1 billion. In 2011, Ontario production represented 63.3% of sales of greenhouse fruits and vegetables in Canada. Sales of tomatoes increased 4.0%, reaching \$496 million. Sales of tomatoes increased 6.0% in Ontario to reach \$292 million compared to \$116 million in British Columbia. Sales of peppers, cucumbers and lettuce reached \$300 million, \$279 million and \$27.6 million respectively in Canada.

Total operating costs for specialized fruit and vegetable producers reached \$855 million in 2011. Labour costs were \$234 million, which represented almost one-quarter of the total operating expenses. For specialized fruit and vegetable greenhouses, the average cost per employee was \$21,618 compared to \$15,543 for specialized flower and plant greenhouses. Specialized fruit and 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 decreased 2.0% to reach \$632 million in 2011. The majority of nursery sales occurred in Ontario (44.4%), British Columbia (30.4%) and Quebec (12.9%). In 2011, the resale of nursery products, which is the sale of products not grown on site, represented 18.5% of total sales compared to 20.6% in 2010.

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 was down by 3.4% to reach 428 million seedling trees.

In 2011, total costs for producers of nursery products increased by 0.7% reaching \$582 million. Labour costs were estimated at \$230 million and represented 39.4% of total operating costs. Nurseries employed 13,945 workers. Of this total, 69.5% were seasonal workers. The average salary increased 4.5% to reach \$16,462 per employee.

In Canada, 215 farms were involved in sod cultivation. Total sod area increased by 1.0% to reach 22,903 hectares. A total of 8,846 hectares of sod were sold in 2011. Ontario, Alberta, and Quebec were among the main sod-producing provinces. In 2011, total sales of sod, including resale activities, decreased to \$137 million.

Costs for sod producers decreased by 5.5%, reaching \$112 million. Labour costs are down by 10.1% to represent 36.0% of total operating expenses. Sod industry's average salary was \$22,417. This sector employed 1,795 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
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	1,996,385 r	185,470 r	477,365	44,349	117,545 E	10,920 E	1,401,475 r	130,201 r		620
New Brunswick	75	1,999,592 r	185,768 r	x	x	F	F	1,866,102 r	173,366 r		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	136,449,395 r	12,676,558 r	36,912,815	3,429,311	6,305,480 r	585,798 r	93,231,100 r	8,661,449 r		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	242,501,252 r	22,529,094 r	83,825,465	7,787,637	11,313,425 r	1,051,051 r	147,362,362 r	13,690,406 r		25,624
2011											
Newfoundland and Labrador	50	728,470	67,677	x	x	x	x	690,280	64,129		315
Prince Edward Island	15	263,420	24,473	x	x	x	x	221,330	20,562		75
Nova Scotia	100	2,004,725	186,245	483,775 E	44,944 E	F	F	1,483,760	137,846		615
New Brunswick	75	1,970,870	183,100	x	x	F	F	1,850,310	171,899		430
Quebec	690	29,430,660	2,734,197	4,357,580 E	404,832 E	F	F	24,311,520	2,258,613		4,700
Ontario	1,150	137,788,835	12,800,996	37,426,225	3,477,009	4,309,350	400,352	96,053,260	8,923,636		8,960
Manitoba	125	3,237,510	300,774	x	x	x	x	3,124,015	290,230		690
Saskatchewan	145	2,110,335	196,056	F	F	41,060	3,815	1,678,400	155,928		775
Alberta	320	12,182,640	1,131,804	1,008,515	93,694	516,625 E	47,996 E	10,657,500	990,114		2,300
British Columbia	550	57,375,350	5,330,342	42,769,090	3,973,377	2,434,340	226,157	12,171,920	1,130,808		4,225
Canada	3,220	247,092,815	22,955,664	86,503,150	8,036,402	8,347,370	775,496	152,242,295	14,143,766		23,085

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, fruits and 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	
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	240 ^r	83,697,435 ^r	7,775,743 ^r	20,845,025	1,936,565	F	F	61,321,400 ^r	5,696,942 ^r	2,510 ^r
Prairie provinces	80	5,324,988 ^r	494,707 ^r	F	F	F	F	4,548,168 ^r	422,538 ^r	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	685^r	127,136,293^r	11,811,343^r	51,917,330^r	4,823,276^r	3,180,720	295,498	72,038,243^r	6,692,569^r	6,280^r
2011										
Atlantic provinces	35	492,630	45,767	104,540 ^E	9,712 ^E	F	F	379,195	35,228	285
Quebec	190	9,024,800	838,431	F	F	F	F	5,557,440	516,303	1,450
Ontario	235	88,102,305	8,184,968	22,830,550	2,121,027	F	F	65,035,730	6,042,014	2,375
Prairie provinces	80	5,361,434	498,093	x	x	F	F	4,908,280	455,994	680
British Columbia	120	29,286,170	2,720,773	28,676,630	2,664,145	27,150	2,522	582,390	54,106	1,070
Canada	660	132,267,339	12,288,033	55,166,704	5,125,152	637,600	59,235	76,463,035	7,103,645	5,860

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
2010					
Newfoundland and Labrador	24,600 r	2,285 r	18,000	8,165	24,000
Prince Edward Island	x	x	x	x	x
Nova Scotia	450,865 r	41,887 r	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	33,159,180 r	3,080,587 r	345,037,635 r	156,506,439 r	275,859,120 r
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	12,020,160 Er	1,116,709 Er	136,805,740 E	62,054,040 E	113,811,015 Er
Canada	53,143,280 r	4,937,170 r	553,648,559 r	251,130,762 r	476,765,120 r
2011					
Newfoundland and Labrador	9,570	889	9,340	4,237	9,815
Prince Edward Island	x	x	x	x	x
Nova Scotia	431,560	40,093	F	F	F
New Brunswick	x	x	F	F	F
Quebec	6,205,280	576,489	49,532,590	22,467,605	68,697,620 E
Ontario	37,371,665	3,471,940	380,446,390	172,567,580	292,396,110
Manitoba	75,940	7,055	372,790 E	169,095 E	723,652 E
Saskatchewan	42,295	3,929	166,665 E	75,598 E	398,330
Alberta	1,411,520	131,134	15,835,520	7,182,871	12,927,120
British Columbia	12,529,640	1,164,041	141,381,845	64,129,726	115,711,830
Canada	58,167,455	5,403,931	591,946,145	268,502,255	495,932,237

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

	Area		Production		Farm gate value
	square feet	square metres	dozens		dollars
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	508,345 Er		3,535,015 Er
Ontario	23,071,080 r	2,143,373 r	30,739,390 r		198,863,070 r
Manitoba	7,195 E	668 E	F		F
Saskatchewan	43,210	4,014	28,340		325,345 r
Alberta	3,013,130	279,929	3,014,874		22,496,400
British Columbia	4,314,515 r	400,831 r	F		38,139,220 r
Canada	31,594,260 r	2,935,202 r	40,002,519 r		264,584,355 r
2011					
Newfoundland and Labrador	3,670	341	338		4,525
Prince Edward Island	F	F	F		F
Nova Scotia	137,320	12,757	72,865		1,039,050
New Brunswick	F	F	F		F
Quebec	798,760 E	74,207 E	F		3,283,520 E
Ontario	24,965,580	2,319,377	34,488,230		216,783,980
Manitoba	7,870	731	4,296 E		F
Saskatchewan	41,105 E	3,819 E	F		280,860 E
Alberta	3,040,525	282,474	3,032,405		18,086,280
British Columbia	4,253,100	395,126	5,758,026		39,114,615
Canada	33,258,395	3,089,805	43,865,470		278,704,645

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

	Area		Production	Farm gate value
	square feet	square metres	heads	dollars
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	2,675,665 ^{Er}	248,577 ^{Er}	22,531,010 ^{Er}	23,265,220 ^{Er}
2011				
Newfoundland and Labrador	F	F	F	F
Prince Edward Island	1,310	122	2,625	6,200
Nova Scotia	F	F	F	F
New Brunswick	x	x	x	x
Quebec	F	F	F	F
Ontario	F	F	F	F
Manitoba	x	x	x	x
Saskatchewan	F	F	9,505 ^E	44,180 ^E
Alberta	F	F	F	F
British Columbia	171,940 ^E	15,974 ^E	x	x
Canada	3,487,100	323,962	27,673,505 ^E	27,613,268 ^E

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

	Area		Production		Farm gate value
	square feet	square metres	pounds	kilograms	dollars
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	95,426,900 ^r
Canada	40,769,060	3,787,568	203,999,805	92,532,755	278,123,295 ^r
2011					
Newfoundland and Labrador	3,000	279	2,620	1,188	4,720
Prince Edward Island	1,295	120	685 ^E	311 ^E	2,250 ^E
Nova Scotia	F	F	F	F	F
New Brunswick	x	x	x	x	x
Quebec	F	F	F	F	F
Ontario	26,579,560	2,469,321	128,773,155	58,410,521	189,114,155
Manitoba	x	x	x	x	x
Saskatchewan	16,590 ^E	1,541 ^E	35,960 ^E	16,311 ^E	161,290 ^E
Alberta	995,500	92,485	4,773,295	2,165,130	6,965,115
British Columbia	13,133,515	1,220,143	65,066,000	29,513,441	102,993,140
Canada	40,847,270	3,794,834	198,838,310	90,191,540	299,638,440

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						
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	4,089,030 r	739,700	0	0	154,435	0	4,983,165 r
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	95,094,855 r
Ontario	469,521,715 r	46,888,150 r	11,954,815 Er	45,957,100 Er	F	75,676,095 Er	666,748,795 r
Manitoba	x	F	F	0	F	x	972,450 E
Saskatchewan	x	318,020 E	0	0	647,690 r	F	1,131,315 r
Alberta	25,919,700	F	x	0	3,453,330 E	9,852,080	41,554,150
British Columbia	92,857,170 r	55,172,485 Er	F	F	2,063,165	30,140,180 Er	252,466,225 r
Canada	619,421,355 r	154,533,770 r	22,695,945 r	117,234,025 Er	29,788,590 Er	121,057,605 r	1,064,731,290 r
2011							
Newfoundland and Labrador	x	0	0	0	F	x	F
Prince Edward Island	x	x	0	0	64,865	0	x
Nova Scotia	F	1,090,990	x	0	330,355	F	6,125,745 E
New Brunswick	x	F	x	0	127,345 E	x	F
Quebec	27,764,365	F	F	F	3,856,740	F	97,357,210
Ontario	518,495,020	37,400,145	28,317,735 E	54,483,580 E	F	58,419,360 E	711,012,440
Manitoba	x	0	0	0	113,340	x	1,082,000
Saskatchewan	0	F	x	0	652,535 E	F	1,304,635
Alberta	23,072,025	x	x	0	3,099,125	11,891,435	39,333,280
British Columbia	120,369,660	94,651,620	x	x	F	36,180,850	264,815,765
Canada	695,122,395	188,148,435	29,605,875 E	75,625,725	24,845,820	109,607,830	1,122,956,080

1. Farm gate value (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	
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
2011										
Atlantic provinces	160	3,299,900	306,571	F	F	200,965	18,670	2,903,880	269,779	1,070
Quebec	370	14,224,780	1,321,525	940,925	87,415	F	F	12,911,925	1,199,557	2,290
Ontario	680	42,352,810	3,934,703	12,836,750	1,192,573	2,689,095 E	249,825 E	26,826,965	2,492,306	5,300
Prairie provinces	400	9,138,085	848,956	684,210	63,565	382,770	35,560	8,071,105	749,830	2,550
British Columbia	350	18,768,330	1,743,634	8,817,105	819,136	802,170	74,524	9,149,055	849,975	2,475
Canada	1,960	87,783,905	8,155,388	23,474,045	2,180,809	4,446,930	413,133	59,862,930	5,561,446	13,685

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 ¹ by category

	Total potted plants		Total cuttings ²		Total cut flowers	
	Production	Sales	Production	Sales	Production	Sales
	pots	dollars	number	dollars	number	dollars
2010						
Newfoundland and Labrador	1,051,026 r	3,912,360	0	0	x	x
Prince Edward Island	87,700	512,000	0	0	x	x
Nova Scotia	1,173,735 r	5,253,940	x	x	x	x
New Brunswick	2,896,580	10,532,400	x	x	78,029 E	74,000
Quebec	36,985,635 r	110,868,850	F	x	F	F
Ontario	135,483,533	360,589,945	35,854,585 E	23,949,200 Er	207,167,520 r	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	235,463,109 r	701,340,625	100,972,640	67,992,480 r	310,655,684 r	132,641,255
2011						
Newfoundland and Labrador	816,960	3,989,550	0	0	x	x
Prince Edward Island	127,105	539,205	0	0	x	x
Nova Scotia	1,285,505	5,790,370	0	0	x	x
New Brunswick	3,295,655	8,746,645	x	x	F	F
Quebec	26,354,850	91,375,720	F	x	F	F
Ontario	116,655,420	337,775,295	41,003,875	33,758,835	186,184,210	92,964,935
Manitoba	4,710,930	16,465,500	F	x	x	x
Saskatchewan	1,337,918	5,835,265	x	x	0	0
Alberta	8,863,310	37,770,900	F	F	F	F
British Columbia	44,242,230	161,084,660	29,583,235	23,433,935	91,238,750	37,269,775
Canada	207,689,883	669,373,110	103,269,884	74,012,485	284,623,610	136,363,145
	Bedding plants, ornamental		Bedding plants, vegetables			
	Production	Sales	Production	Sales		
	number	dollars	number	dollars		
2010						
Newfoundland and Labrador	4,157,290	2,446,550	322,820	238,575		
Prince Edward Island	2,227,440 r	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	43,688,100 r		
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	454,793,305 r	180,722,750	660,605,714	75,104,890 r		
2011						
Newfoundland and Labrador	4,281,330	2,080,825	321,150	175,795		
Prince Edward Island	2,418,000	1,086,500	127,055	55,645		
Nova Scotia	4,743,825	2,490,615	1,280,695	507,800		
New Brunswick	x	x	13,644,170	1,940,415		
Quebec	71,101,850	29,951,290	F	25,220,080		
Ontario	156,333,405	50,164,350	371,751,635	56,505,455		
Manitoba	x	x	4,348,555	2,584,750		
Saskatchewan	11,252,220	5,243,890	2,117,784	1,193,840		
Alberta	21,525,350	17,241,145	5,028,740	2,621,390		
British Columbia	38,544,175	20,040,490	43,549,365	12,226,165		
Canada	439,895,075	157,666,830	932,403,159 E	103,031,335		

1. Farm gate value (before sales tax).

2. Excludes tree seedling plants (production and sales).

Table 7
Indoor potted plant production by variety

	Azaleas	Lilies	Poinsettias	African violets	Tropical foliage and green plants	Gerberas	Miniature roses	Orchids
pots								
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
2011								
Newfoundland and Labrador	x	x	61,050	x	x	7,535	0	0
Prince Edward Island	0	0	x	0	0	x	x	0
Nova Scotia	0	F	F	0	F	3,340	x	0
New Brunswick	x	6,170	x	x	9,270	16,350	x	x
Quebec	F	155,360	534,790	x	643,240	136,400	x	F
Ontario	F	3,471,260	4,189,580	F	4,028,790 ^E	2,032,750	F	880,065 ^E
Manitoba	x	F	F	x	F	F	x	x
Saskatchewan	0	F	F	0	F	6,660	F	x
Alberta	x	F	F	x	F	18,475 ^E	995 ^E	x
British Columbia	90,830	574,980	3,125,510	923,535	5,381,955	896,295	653,660	684,580
Canada	F	4,332,975	8,640,320	F	10,197,435	3,148,135	F	1,619,410
pots								
	Kalanchoe	Chrysanthemums (potted mums)	Primula	Cyclamen	Tulips	Indoor hanging pots	Other indoor pots	
pots								
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	
2011								
Newfoundland and Labrador	0	x	x	0	x	1,945 ^E	x	
Prince Edward Island	x	x	0	0	0	0	0	
Nova Scotia	0	x	650 ^E	x	x	F	3,795 ^E	
New Brunswick	x	5,330	x	x	0	7,560	x	
Quebec	F	79,540	F	53,230 ^E	F	94,205	689,175 ^E	
Ontario	4,929,930 ^E	8,716,545	789,335	2,013,245	F	473,950	19,925,340 ^E	
Manitoba	x	F	F	x	x	F	x	
Saskatchewan	x	F	F	0	x	F	F	
Alberta	x	F	F	x	x	F	9,395 ^E	
British Columbia	947,575	998,730	818,015	154,590	73,835	x	1,915,105	
Canada	5,903,715	9,946,515	1,694,625	2,258,435	F	694,170	22,785,285	

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
pots					
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	1,600,370 ^{Er}	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	5,958,740^r	4,420,390	19,492,085	8,878,845^E	F
2011					
Newfoundland and Labrador	72,755	26,665	59,045	37,410	59,070
Prince Edward Island	18,600	920	46,500	5,200 ^E	6,200
Nova Scotia	54,790	14,430 ^E	186,060	72,910	72,465
New Brunswick	79,460	272,945	402,565	162,745	229,085
Quebec	976,350	452,470 ^E	3,844,270	1,246,910	721,040
Ontario	1,853,640	2,840,050	7,058,920	2,884,730	2,871,290
Manitoba	140,240	10,785	826,840	91,200	387,985
Saskatchewan	37,900	F	162,435	45,855 ^E	152,353
Alberta	361,555	18,440	1,129,280	235,195 ^E	1,276,600
British Columbia	2,271,010	428,610	5,707,155	1,372,280	2,394,490
Canada	5,866,300	4,074,050	19,423,070	6,154,435	8,170,578
	Herbaceous perennials	Argyranthemum	Outdoor hanging pots	Other outdoor pots	Total potted plants ¹
pots					
2010					
Newfoundland and Labrador	84,230	11,420	x	441,540 ^{Er}	1,051,026 ^r
Prince Edward Island	x	x	x	x	87,700
Nova Scotia	x	9,175	200,940 ^r	384,940	1,173,735 ^r
New Brunswick	289,090	21,750	308,670	905,275	2,896,580
Quebec	4,542,175 ^r	167,660	2,365,615	18,353,305 ^r	36,985,635 ^r
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	13,847,445^r	607,585	11,808,515^r	56,126,310^r	235,463,109^r
2011					
Newfoundland and Labrador	70,070	8,440	90,850	279,055	816,960
Prince Edward Island	x	x	20,200	x	127,105
Nova Scotia	x	15,820	208,805	460,305 ^E	1,285,505
New Brunswick	270,520	22,300	328,645	1,030,610	3,295,655
Quebec	2,970,140	108,790	2,651,890 ^E	10,694,875	26,354,850
Ontario	4,920,665	126,535	5,319,455	14,545,040	116,655,420
Manitoba	779,505	15,825	524,465 ^E	F	4,710,930
Saskatchewan	254,285 ^E	x	98,815	479,435 ^E	1,337,918
Alberta	757,100 ^E	50,875 ^E	512,290	3,983,085	8,863,310
British Columbia	2,582,105	65,390	1,742,270	x	44,242,230
Canada	12,725,030	432,800	11,497,685	43,349,700	207,689,883

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
	Chysanthemums	Poinsettias	Geraniums	Impatiens	Other cuttings		
	number						
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	56,398,680^r
2011							
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	x
New Brunswick	x	x	x	x	x	x	0
Quebec	0	x	F	F	F	F	x
Ontario	F	F	6,488,800 ^E	F	27,420,050	41,003,875	F
Manitoba	0	0	x	x	F	F	x
Saskatchewan	0	0	0	0	x	x	0
Alberta	0	0	F	x	F	F	F
British Columbia	x	x	F	F	21,390,790	29,583,235	23,528,415
Canada	7,431,090	5,066,215^E	13,727,180	3,264,573	73,780,825	103,269,884	66,917,100

Table 10
Greenhouse cut flower production by variety

	Stems						
	Alstroemeria	Chrysanthemums	Daffodils	Freesia	Gerberas	Iris	Roses
	number						
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
2011							
Newfoundland and Labrador	0	x	x	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	0	0
Quebec	x	0	0	0	x	0	x
Ontario	F	11,988,340	x	x	44,241,615 E	F	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	11,116,415	x	x	21,023,625	x	x
Canada	15,924,310 E	23,105,365	F	4,776,700	66,046,520	F	10,455,975 E

	Stems					
	Snapdragons	Tulips	Lilies	Lisianthus	Other cut flowers	Total cut flowers
	number					
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	14,289,815 r	207,167,520 r
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	23,735,605 r	310,655,684 r
2011						
Newfoundland and Labrador	0	x	x	0	x	x
Prince Edward Island	0	x	0	0	0	x
Nova Scotia	x	0	x	x	F	x
New Brunswick	x	x	x	0	x	F
Quebec	x	0	x	x	x	F
Ontario	F	F	9,461,095	F	18,966,665 E	186,184,210
Manitoba	0	0	0	0	x	x
Saskatchewan	0	0	0	0	0	0
Alberta	x	0	F	x	x	F
British Columbia	742,820	18,355,740	4,780,175	652,615	7,673,305	91,238,750
Canada	F	80,472,630 E	15,196,500	2,344,290 E	26,915,415	284,623,610

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								
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	42,272,460 ^r	14,624,780	44,801,685	12,620,195 ^E	7,125,560	47,812,570	3,548,210	F	178,091,895 ^r
Ontario	78,463,610	189,579,690	176,324,460	57,531,170 ^r	92,775,385	F	2,774,200	18,365,320 ^r	726,730,520 ^r
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	x	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	181,256,365 ^r	265,923,570	363,952,275	118,428,005 ^r	143,303,405	261,660,745	9,496,470	37,035,385 ^r	1,381,056,220 ^r
2011									
Newfoundland and Labrador	180,700	x	4,099,815	x	0	4,776,080	x	x	9,666,925
Prince Edward Island	x	x	x	0	0	1,495,205	x	x	2,781,350
Nova Scotia	F	249,885 ^E	x	F	0	6,088,930	114,220	229,350 ^E	14,727,825 ^E
New Brunswick	3,490,550	2,936,510	3,776,705	x	x	5,631,465	422,560	564,045	34,435,535
Quebec	46,445,950	13,022,330	43,991,745	8,273,425	11,086,890	46,938,070	3,253,740	6,837,750 ^E	179,849,900
Ontario	F	179,314,070	143,254,975	68,372,210	61,192,890	93,211,970	2,911,595 ^E	13,155,890 ^E	721,349,040
Manitoba	F	F	F	960,955	0	16,356,635	607,235 ^E	F	38,047,690
Saskatchewan	1,175,992 ^E	x	F	695,000	0	8,562,268	F	F	14,044,665
Alberta	5,171,080	2,124,830	17,868,805	5,460,475 ^E	x	36,530,020	x	2,660,850 ^E	71,114,560
British Columbia	36,676,390	63,019,910	108,682,815	33,390,865	21,941,610	19,181,375	946,555	9,786,230	293,625,750
Canada	258,954,812	262,840,475	346,176,845	119,174,905	109,933,640	238,772,018	9,752,575	34,037,970	1,379,643,240

1. Farm gate value (before sales tax).
2. Includes roadside stands and owner-operated retail outlets.

Table 12
Total value of greenhouse products

	2010				2011			
	Total flower and plant sales		Total fruit and vegetable sales ¹	Total greenhouse sales	Total flower and plant sales		Total fruit and vegetable sales ¹	Total greenhouse sales
	sales ¹	resales			sales ¹	resales		
	dollars							
Newfoundland and Labrador	6,599,110	2,100,000 ^E	F	8,913,160	6,248,080	3,418,845	F	9,810,845
Prince Edward Island	3,520,750	0	356,470	3,877,220	2,761,350	x	x	x
Nova Scotia	9,230,090	8,448,590	4,983,165 ^r	22,661,845 ^r	9,513,745	F	x	x
New Brunswick	31,246,655	2,697,040	F	35,153,510 ^r	30,165,760	4,269,775	1,364,465 ^E	35,800,000
Quebec	158,929,535 ^r	19,162,360	95,094,855 ^r	273,186,750 ^r	157,355,130	22,494,770	97,357,210	277,207,110
Ontario	584,426,505 ^r	142,304,015	666,748,795 ^r	1,393,479,315 ^r	573,037,990	148,311,050 ^E	711,012,440	1,432,361,480
Manitoba	34,151,760	3,336,160	972,450 ^E	38,460,370	35,132,285	2,915,405	1,082,000	39,129,690
Saskatchewan	15,453,055	1,322,785	1,131,315 ^r	17,907,155 ^r	12,410,245	1,634,420	1,304,635	15,349,300
Alberta	69,316,320	4,770,730	41,554,150	115,641,200	63,995,705	7,118,855	39,333,280	110,447,840
British Columbia	251,582,440	32,458,320	252,466,225 ^r	536,506,985 ^r	260,160,440	33,465,310	264,815,765	558,441,515
Canada	1,164,456,220 ^r	216,600,000	1,064,731,290 ^r	2,445,787,510 ^r	1,150,780,730	228,862,510	1,122,956,080	2,502,599,320

1. Farm gate value (before sales tax).

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					
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	320,858,765 ^r	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	61,930,365 ^r	21,379,800 ^E	128,820,210	12,644,145	39,772,800
Canada	292,223,580 ^r	92,767,335	597,610,970 ^r	62,115,190	182,463,968
2011					
Newfoundland and Labrador	1,736,880	1,613,470 ^E	2,486,525	210,640	x
Prince Edward Island	575,890	x	663,260	66,335	0
Nova Scotia	1,925,565	x	6,824,760	559,100	x
New Brunswick	6,690,930	x	11,230,940	637,680	x
Quebec	28,658,735	10,072,210	82,556,776	6,707,290	11,384,080
Ontario	179,281,780	68,263,960 ^E	325,575,810	33,575,235	114,028,800
Manitoba	7,981,185	979,480	12,514,610	547,950	2,058,975
Saskatchewan	4,065,440	718,520	4,478,697	427,519	720,910
Alberta	12,861,750	3,878,765 ^E	34,039,680	2,912,170	9,310,675
British Columbia	64,160,570	23,363,500	135,181,460	12,039,070	38,260,240
Canada	307,938,725	110,516,395	615,552,518	57,682,989	175,834,445
	Heating oil	Other types of fuel	Other crop expenses	Other operating expenses	Total operating expenses
dollars					
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	1,159,324,330 ^r
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	488,287,070 ^r
Canada	22,496,840	32,224,260	257,627,165	559,359,065	2,098,888,373 ^r
2011					
Newfoundland and Labrador	580,105	x	425,060	1,135,775	8,233,750
Prince Edward Island	229,460	x	218,295	720,045	2,488,485
Nova Scotia	660,955	1,324,230	1,725,040	4,212,445	17,621,660
New Brunswick	722,510	679,990	6,943,140	5,473,950	33,668,190
Quebec	10,735,530	4,927,735	22,105,492	58,041,620	235,189,468
Ontario	7,682,960 ^E	14,960,960	128,323,320	296,691,695	1,168,384,520
Manitoba	186,295	425,420 ^E	3,640,785	7,769,435	36,104,135
Saskatchewan	F	F	1,616,621	1,725,211	14,461,581
Alberta	0	584,660	10,499,175	24,306,070	98,392,945
British Columbia	F	8,119,510	72,818,500	136,891,465	491,026,585
Canada	21,140,235	31,622,873	248,315,428	536,967,711	2,105,571,319

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								
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	39,820,745 ^r	F	129,426,520 ^r	17,585,130 ^r	92,635,710	65,848,235	159,939,430	505,373,445 ^r
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	53,114,575 ^r	5,413,650 ^r	33,191,650 ^r	27,471,030 ^r	91,806,325 ^E	229,325,870 ^r
Canada	64,983,305 ^r	F	216,687,460 ^r	28,310,140 ^r	143,440,645 ^r	107,573,895 ^r	284,036,155 ^r	845,194,825 ^r
2011								
Atlantic provinces	253,670 ^E	0	1,182,600	269,695	672,705	456,520	958,335	3,793,525
Quebec	4,243,460 ^E	690	27,942,801	2,748,948	10,373,370	7,910,380	21,604,560 ^E	74,824,209 ^E
Ontario	42,902,465	x	143,560,835	x	89,699,375	66,071,115	169,977,930	528,928,240
Prairie provinces	3,057,790	x	10,649,700	x	6,019,140	4,992,835	11,470,795	37,710,030
British Columbia	14,308,195 ^E	x	50,248,520	x	29,368,135	27,662,990	83,276,435	209,770,415
Canada	64,765,580	F	233,584,456	25,857,598	136,132,725	107,093,840	287,288,055	855,026,419

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								
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
2011								
Atlantic provinces	9,913,850	3,764,150	17,920,315	1,028,780	2,877,850	8,331,130	7,252,695	51,088,770
Quebec	21,388,150	9,190,315	41,430,820	2,967,200	11,398,840	9,698,840	26,502,490	122,576,655
Ontario	137,046,860	66,652,510 ^E	161,828,410	14,798,115	40,712,045	51,692,415	105,799,490	578,529,845
Prairie provinces	19,820,130	5,451,845	35,874,510	2,084,960	6,988,745	10,702,500	19,802,260	100,724,950
British Columbia	43,212,965	23,051,480	62,900,615	4,783,085	12,038,695	29,856,415	39,469,400	215,312,655
Canada	231,381,955	108,110,300	319,954,670	25,662,140	74,016,175	110,281,300	198,826,335	1,068,232,875

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

	2010			2011		
	Total greenhouse employees			Total greenhouse employees		
	Seasonal ¹	Permanent ²	Total	Seasonal ¹	Permanent ²	Total
	number					
Newfoundland and Labrador	270	60	330	235	50	285
Prince Edward Island	85	15	100	65	20	85
Nova Scotia	460	160	620	455	200	655
New Brunswick	515	335	850	510	325	835
Quebec	4,250	1,930	6,180	4,025	2,075	6,100
Ontario	9,385	7,405	16,790	9,460	7,105	16,565
Manitoba	865	240	1,105	855	220	1,075
Saskatchewan	865	175	1,040	750	145	895
Alberta	2,140	1,150 ^E	3,290	1,990	900	2,890
British Columbia	3,610	3,000	6,610	3,615	3,110	6,725
Canada	22,445	14,470	36,915	21,960	14,150	36,110

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 - Total number of employees of specialized greenhouse operations

	Greenhouse vegetable employees			Greenhouse flower and plant employees		
	Seasonal ¹	Permanent ²	Total	Seasonal ¹	Permanent ²	Total
	number					
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	1,205 ^r	1,070 ^r	2,275	1,590	1,555	3,145
Canada	5,260 ^r	4,920 ^r	10,180	14,015	8,145	22,160
2011						
Atlantic provinces	105	60	165	985	460	1,445
Quebec	510	910	1,420	2,680	820	3,500
Ontario	3,475	2,790	6,265	5,005	3,855	8,860
Prairie provinces	240	360	600	2,805	775	3,580
British Columbia	1,025	1,330	2,355	1,850	1,350	3,200
Canada	5,355	5,450	10,805	13,325	7,260	20,585

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): Excludes 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
2010							
Newfoundland and Labrador	10	x	x	15	6	F	F
Prince Edward Island	5 ^r	x	x	x	x	x	x
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	1,240 ^r	502 ^r
Alberta	195	6,600 ^r	2,671 ^r	F	F	7,817 ^r	3,163 ^r
British Columbia	340	6,070	2,456	2,930	1,186	9,000	3,642
Canada	1,285^r	41,405^r	16,756^r	7,487^r	3,030^r	48,892^r	19,786^r
2011							
Newfoundland and Labrador	10	x	x	15	6	x	x
Prince Edward Island	5	x	x	x	x	x	x
Nova Scotia	25	290	117	45	18	335	136
New Brunswick	15	180 ^E	73 ^E	50 ^E	20 ^E	230 ^E	93 ^E
Quebec	210	5,030	2,036	990	401	6,020	2,436
Ontario	410	20,175	8,165	2,540	1,028	22,715	9,190
Manitoba	40	850	344	155	63	1,005	407
Saskatchewan	40	F	F	F	F	F	F
Alberta	195	6,250	2,529	1,200	486	7,450	3,014
British Columbia	340	6,335	2,564	2,650	1,072	8,985	3,635
Canada	1,290	40,385	16,343	F	F	48,105	19,463

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	Other trees and plants
	number										
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	60,850 ^{Er}	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	1,128,980^r	F	1,184,965^E	235,000	2,012,175^r	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	32,300 ^{Er}	79,590 ^r	281,010 ^{Er}	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	258,625^{Er}	F	4,208,225^r	3,188,240	9,422,275	687,605	12,738,040	3,902,125^r	374,889,185	F
2011											
Field grown											
Atlantic provinces	F	x	F	x	0	x	0	x	x	0	0
Quebec	F	98,940 ^E	52,375 ^E	F	F	F	x	F	F	x	F
Ontario	418,585 ^E	F	755,535	484,975	209,555 ^E	680,225	F	F	F	9,234,695 ^E	F
Prairie provinces	156,892	82,708 ^E	137,108	9,455	x	F	1,931 ^E	29,994 ^E	24,368 ^E	655,641	F
British Columbia	2,721,865	F	5,527,095 ^E	797,740	F	193,265	F	F	F	F	149,920 ^E
Canada	4,327,907	841,308	6,496,188	1,375,905	313,733^E	1,757,114	F	F	F	10,389,136^E	210,136^E
Container grown											
Atlantic provinces	16,990 ^E	x	14,595 ^E	6,520 ^E	19,060 ^E	58,035	7,890 ^E	F	F	F	x
Quebec	273,670 ^E	F	222,270 ^E	209,435 ^E	F	510,440 ^E	152,960 ^E	2,086,925	F	51,735,140	F
Ontario	194,410 ^E	F	445,925	719,310	708,035 ^E	2,945,455	186,665	4,733,140 ^E	F	F	F
Prairie provinces	20,633	24,419	128,066 ^E	F	F	658,235	17,984	F	40,631	39,623,369	F
British Columbia	377,735	230,525 ^E	F	2,399,705	1,991,225	3,283,955	504,270	6,890,450	853,205	200,262,230 ^E	336,375 ^E
Canada	883,438	345,154	2,663,351	3,683,568	3,285,056	7,456,120	869,769	14,383,406	F	350,423,309	F

Table 20
Nursery stock sales and resales

	2010			2011		
	Nursery stock sales ¹	Nursery resales ²	Total sales	Nursery stock sales ¹	Nursery resales ²	Total sales
	dollars					
Newfoundland and Labrador	250,910	x	x	107,665	563,735	671,400
Prince Edward Island	0	x	x	x	x	x
Nova Scotia	6,365,945	1,228,755	7,594,700	7,091,965	1,612,225	8,704,190
New Brunswick	F	1,016,280	4,752,115 ^E	F	F	F
Quebec	61,431,975 ^r	14,244,490	75,676,465 ^r	66,044,805	15,386,745	81,431,550
Ontario	214,597,275	69,918,720	284,515,995	225,954,425	54,605,750	280,560,175
Manitoba	11,834,140 ^E	2,547,200	14,381,340 ^E	11,265,000	2,452,945	13,717,945
Saskatchewan	6,435,580	1,887,435	8,323,015	6,714,055	1,495,350	8,209,405
Alberta	31,956,495	8,944,000	40,900,495	31,742,545	12,101,050	43,843,595
British Columbia	175,274,505	32,784,860	208,059,365	163,875,710	28,067,185	191,942,895
Canada	511,882,660^r	132,795,070	644,677,730^r	515,387,350	116,572,740	631,960,090

1. Farm gate value (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					
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	22,453,215 ^r	158,838,795	141,137,745	86,570,130
2011					
Atlantic provinces	5,041,425	x	1,634,245 ^E	584,135 ^E	0
Quebec	13,475,345	x	19,912,615	18,817,930	7,639,145 ^E
Ontario	27,262,925	6,908,730 ^E	74,065,300	70,654,580	53,810,550 ^E
Prairie provinces	16,100,950	2,168,640	24,321,120	6,390,845	743,825 ^E
British Columbia	11,462,980	7,726,375	37,296,295	43,072,245	33,881,745
Canada	73,343,625	23,415,950	157,229,575	139,519,735	96,075,265
	Other growers	Exported	Government and public agencies	Other channels	Total sales
dollars					
2010					
Atlantic provinces	108,805 ^E	x	F	x	12,821,055
Quebec	3,068,430	F	14,630,835	900,810 ^E	75,676,465 ^r
Ontario	22,739,370	9,674,280	12,034,175	11,576,590	284,515,995
Prairie provinces	2,855,260	x	2,579,215	8,095,560 ^E	63,604,850
British Columbia	20,422,205	x	9,732,510	F	208,059,365
Canada	49,194,070	25,110,645	40,960,970	53,390,575	644,677,730 ^r
2011					
Atlantic provinces	32,020	x	F	1,732,620 ^E	12,254,525
Quebec	3,207,400 ^E	x	11,667,625	1,100,985 ^E	81,431,550
Ontario	21,524,575	5,144,325 ^E	9,283,375	11,905,815	280,560,175
Prairie provinces	2,046,650	188,405	3,606,105	10,204,405	65,770,945
British Columbia	16,896,745	3,992,065	9,180,270	28,434,175 ^E	191,942,895
Canada	43,707,390	10,446,875	34,843,675	53,378,000	631,960,090

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	
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	2,510 ^r	1,016 ^r	820 ^r	332 ^r	5,217,660 ^r	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	11,590 ^r	4,690 ^r	3,500 ^r	1,416 ^r	26,338,625 ^r	F
British Columbia	20 ^r	1,460 ^{Er}	591 ^{Er}	1,075 ^{Er}	435 ^{Er}	8,681,435 ^{Er}	0
Canada	210^r	57,160^r	23,132^r	22,690^r	9,182^r	129,290,315^r	F
2011							
Newfoundland and Labrador	20	770	312	490	198	3,118,520	x
Prince Edward Island	5	x	x	x	x	x	x
Nova Scotia	15	2,700	1,092	960	388	6,348,185	x
New Brunswick	5	F	F	F	F	F	x
Quebec	50	10,955	4,432	5,665	2,293	28,370,125	F
Ontario	65	26,440	10,698	9,570	3,873	50,310,200	3,030,500
Manitoba	10	1,270	514	220	89	1,128,260	x
Saskatchewan	5	795 ^E	322 ^E	305	123	2,811,585 ^E	0
Alberta	20	10,925	4,420	3,020	1,222	24,910,750	x
British Columbia	20	1,730 ^E	700 ^E	1,250 ^E	506 ^E	9,243,250 ^E	0
Canada	215	56,605	22,903	21,865	8,848	128,520,220	8,393,095

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				
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	470,700 ^r	2,577,250	913,670	4,868,310
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	14,090,215 ^r	10,927,510	35,066,535 ^r
British Columbia	25,834,065	14,435,835	69,241,490	60,045,360	169,556,750
Canada	75,997,919	78,751,086 ^r	226,800,565 ^r	196,507,815	578,057,385 ^r
2011					
Newfoundland and Labrador	30,200	258,060	302,115	43,500	633,875
Prince Edward Island	x	x	x	0	x
Nova Scotia	F	651,670	2,615,200	1,164,645	5,421,630
New Brunswick	x	F	x	F	F
Quebec	10,807,245	8,952,040	29,590,975	23,955,625	73,305,885
Ontario	36,351,570	40,059,065	102,885,190	88,637,085	267,932,910
Manitoba	1,733,970 ^E	1,318,265	5,641,940	4,707,420	13,401,595
Saskatchewan	752,880	322,790	3,379,420	2,072,555	6,527,645
Alberta	5,657,350	5,694,660	18,501,985	13,370,790	43,224,785
British Columbia	22,639,975	13,314,335	65,122,125	65,940,545	167,016,980
Canada	79,108,430	70,725,240	229,568,160	202,584,340	581,986,170

	Sod			
	Purchases for resale	Gross yearly payroll ²	Other operating expenses	Total operating expenses
	dollars			
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	1,419,820 ^r	x	4,027,745 ^r
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	7,835,150 ^r	13,424,210 ^r	26,327,275 ^r
British Columbia	0	2,642,021 ^r	1,910,463 ^{Er}	4,552,484 ^{Er}
Canada	F	44,738,956 ^r	66,438,818 ^r	118,080,884 ^r
2011				
Newfoundland and Labrador	x	1,060,025	x	2,255,080
Prince Edward Island	x	x	x	x
Nova Scotia	x	1,752,820	x	4,951,330
New Brunswick	x	F	F	F
Quebec	F	9,349,700	18,653,850	28,392,445
Ontario	1,399,000	15,915,815	24,584,685	41,899,500
Manitoba	x	153,970	x	788,145
Saskatchewan	0	953,615 ^E	1,430,035 ^E	2,383,650 ^E
Alberta	x	7,244,725	x	23,676,550
British Columbia	0	3,262,980	F	6,000,380 ^E
Canada	5,005,365	40,239,085	66,367,855	111,612,305

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					
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	140 ^r	65 ^r	205 ^r
British Columbia	2,865	1,360	4,225	40 ^r	F	115 ^r
Canada	10,300	4,100	14,400 ^E	1,385	545 ^r	1,930 ^r
2011						
Newfoundland and Labrador	25	10	35	90	10	100
Prince Edward Island	x	x	x	x	x	x
Nova Scotia	245	25	270	70	25	95
New Brunswick	F	F	x	x	x	x
Quebec	2,120	455	2,575	340	125	465
Ontario	3,240	1,825	5,065	475	210	685
Manitoba	290	85	375	25	10 ^E	35
Saskatchewan	265	60	325	x	x	40
Alberta	780	305	1,085	135	55	190
British Columbia	2,655	1,430	4,085	45	F	140
Canada	9,695	4,250	13,945	1,245	550	1,795

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 2011 survey frame were extracted from the 2010 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 5,342.

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 3,913 operations and the abridged version to 1,429 operations.

Data collection

The reference period for this survey is calendar year 2011. Respondents received a copy of the questionnaire through the mail in early December 2011 and most were interviewed by telephone between January 9 and January 29, 2012.

Data collection for the 2011 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 83.0% 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.

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 2011 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.