

I. Nursery

There were 16,750 acres used for production of woody ornamental plants in Michigan in 1999 and 1,950 acres used for growing perennials and other herbaceous ornamentals. To qualify as a producer, an operation had to grow at least 0.1 acre of one of these products and to sell them either wholesale or retail. There were 1,085 such operations. Approximately 10.1 million square feet were devoted to the production of propagation materials.

Ottawa, Allegan, and Berrien were the three leading counties for land in production. They accounted for 43 percent of all acres. The nursery industry is widely dispersed in Michigan. Seventeen counties had 25 operations or more.

The nursery and perennial plant growers contributed substantially to the State's economy. They had \$250 million in wholesale and retail sales in 1999. That is up from \$210 million in 1996, the last time the survey was conducted. There was about \$90 million of product wholesaled outside Michigan.

The nursery industry employed 2,900 permanent workers and 4,900 seasonal workers in 1999. The total payroll was an estimated \$77 million. If more workers had been available in 1999, an additional 250 permanent and 650 seasonal workers would have been hired.

Table 1. Nurseries: Number of operations and acres, by category

Category	Field grown		Container grown		State total	
	Number of operations	Acres	Number of operations	Acres	Number of operations	Acres
Deciduous trees	396	3,900	130	150	453	4,050
Deciduous shrubs	170	610	166	420	292	1,030
Narrow-leaved evergreens	578	10,750	88	250	618	11,000
Broad-leaved evergreens	35	124	63	81	93	205
Roses	5	1	68	24	72	25
Fruit trees	19	220	32	5	50	225
Small fruits	26	195	43	20	65	215
All woody plants	710	15,800	267	950	827	16,750
Daylillies	91	330	176	40	255	370

Hosta	78	185	208	50	271	235
Ornamental grasses	45	40	129	20	167	60
Other herbaceous perennials	129	920	268	160	369	1,080
Vines and ground covers	43	45	131	65	170	110
Bulbs, corms and rhizomes	42	80	45	10	85	90
Water garden (aquatic) plants	0	0	26	5	26	5
All herbaceous plants	224	1,600	341	350	507	1,950
State total	870	17,400	440	1,300	1,085	18,700

Table 2._Nurseries: Number of operations and acres of woody ornamentals, by size group

Size group	Number of operations		Acres	
	1997	2000	1997	2000
1 acre or less	200	185	100	90
1.1 to 5 acres	335	272	1,000	830
5.1 to 10 acres	140	129	1,050	1,000
10.1 to 25 acres	105	119	1,650	2,050
25.1 to 50 acres	60	65	2,100	2,230
50 acres or more	50	57	11,100	10,550
State total	890	827	17,000	16,750

Table 3._Nurseries: Number of operations and acres of woody ornamentals,
by Michigan Department of Agriculture region

MDA region	Field grown				Container grown				State total			
	Number of operations		Acres		Number of operations		Acres		Number of operations		Acres	
	1997	2000	1997	2000	1997	2000	1997	2000	1997	2000	1997	2000
1	15	10	490	215	9	8	10	10	20	16	500	225
2	58	62	585	840	32	26	35	15	74	78	620	855
3	121	128	5,810	5,600	69	56	980	585	153	155	6,790	6,185
4	104	121	1,190	1,685	41	42	60	65	119	134	1,250	1,750
5	134	131	2,925	3,110	53	46	115	100	154	151	3,040	3,210

6	191	169	2,500	2,760	43	43	130	50	205	185	2,630	2,810
7	142	89	2,000	1,590	53	46	170	125	165	108	2,170	1,715
State total	765	710	15,500	15,800	300	267	1,500	950	890	827	17,000	16,750

Table 4._Nurseries: Number of operations and sales, by sales category, 1999

Sales category	Number of operations	Percent of State total	State total sales	Percent of State total
\$1,000 or less	200	18.4	70,000	0.0
\$1,001 to \$10,000	330	30.4	1,530,000	0.6
\$10,001 to \$100,000	330	30.4	13,400,000	5.4
\$100,001 to \$250,000	95	8.8	15,000,000	6.0
\$250,001 to \$1,000,000	100	9.2	50,000,000	20.0
\$1,000,001 or more	30	2.8	170,000,000	68.0
State total	1,085	100.0	250,000,000	100.0

Table 5._Nurseries: Sales of nursery stock and propagation materials

Category	<i>Dollars</i>
Woody Plants:	
Wholesale to retailers	68,000,000
Wholesale to wholesalers	39,000,000
Retail	40,000,000
Herbaceous Plants:	
Wholesale to retailers	30,000,000
Wholesale to wholesalers	41,000,000
Retail	18,000,000
Propagation Materials:	
Wholesale to retailers	2,500,000
Wholesale to wholesalers	10,500,000
Retail	1,000,000
State total	250,000,000

Table 6._Nurseries: Number of operations and acres of herbaceous ornamentals, by Michigan Department of Agriculture region

[Herbaceous ornamentals include: Vines, ground covers, bulbs, corms, rhizomes and perennials]

	Field grown	Container grown	Total
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MDA Region	Number of operations		Acres		Number of operations		Acres		Number of operations		Acres	
	1997	2000	1997	2000	1997	2000	1997	2000	1997	2000	1997	2000
1 & 2	30	27	20	30	40	40	15	10	62	61	35	40
3	55	40	390	360	64	64	70	95	107	91	460	455
4	42	20	35	15	43	45	20	35	79	61	55	50
5	78	71	975	1,125	65	60	75	115	126	119	1,050	1,240
6	44	34	25	20	55	57	25	30	87	79	50	50
7	51	32	55	50	68	75	45	65	109	96	100	115
State total	300	224	1,500	1,600	335	341	250	350	570	507	1,750	1,950

Table 7._Nurseries: Number of operations and acres of herbaceous ornamentals, by size group

Size group	Number of operations		Acres	
	1997	2000	1997	2000
0.5 acre or less	365	274	85	75
0.6 to 1 acre	85	88	70	75
1.1 to 5 acres	93	113	215	250
5.1 acres or more	27	32	1,380	1,550
State total	570	507	1,750	1,950

Table 8._Nurseries: Number of paid workers and payroll, 1999

Category	Paid workers
Full-time permanent	2,300
Full-time seasonal	2,900
Part-time permanent	600
Part-time seasonal	2,000
State total	7,800
	Dollars
Payroll	77,000,000

Table 9._Nurseries: Number of operations and acres, by county and Michigan Department of Agriculture region

County and MDA region	Number of operations	Acres
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	1996	1999	1996	1999
Menominee	3	3	65	20
Other counties ¹	21	14	440	210
Region 1	24	17	505	230
Alcona	3	4	80	80
Antrim	13	15	75	90
Benzie	4	3	20	10
Charlevoix	**	4	**	20
Cheboygan	**	6	**	25
Emmett	6	6	120	170
Grand Traverse	20	12	30	20
Kalkaska	4	7	60	170
Leelanau	12	9	25	45
Manistee	8	11	120	100
Missaukee	5	5	25	105
Wexford	**	6	**	20
Other counties ¹	24	8	95	35
Region 2	99	96	650	890
Ionia	14	9	90	95
Kent	55	41	650	360
Lake	**	3	**	135
Mason	12	12	250	310
Mecosta	**	4	**	45
Montcalm	11	16	70	465
Muskegon	9	8	60	135
Newaygo	12	11	100	130
Oceana	6	9	40	95
Osceola	**	6	**	70
Ottawa	88	81	5,950	4,800
Other counties ¹	11	- -	40	- -
Region 3	218	200	7,250	6,640
Arenac	**	4	**	25
Bay	8	8	110	135

Genesee	35	41	180	330
Huron	**	6	**	25
Iosco	**	3	**	10
Isabella	6	10	45	195
Lapeer	38	31	420	385
Midland	9	6	15	15
Ogemaw	**	3	**	35
Saginaw	31	26	250	270
Sanilac	11	12	230	300
Tuscola	10	6	30	30
Other counties ¹	16	5	25	45
Region 4	164	161	1,305	1,800
Allegan	37	50	1,700	2,440
Barry	7	5	25	30
Berrien	61	59	960	860
Branch	8	3	40	5
Calhoun	19	21	140	170
Cass	16	16	90	75
Kalamazoo	36	28	450	200
St. Joseph	18	11	135	60
Van Buren	32	33	550	610
Region 5	234	226	4,090	4,450
Clinton	27	25	250	300
Eaton	29	22	380	250
Gratiot	**	6	**	25
Hillsdale	**	8	**	15
Ingham	33	25	420	630
Jackson	22	17	270	260
Lenawee	21	14	160	130
Livingston	51	43	560	650
Shiawassee	14	14	280	200
Washtenaw	49	49	330	400
Other counties ¹	11		30	
Region 6	257	223	2,680	2,860
Macomb	47	28	530	430

Monroe	38	33	540	625
Oakland	86	54	510	295
St. Clair	29	21	450	325
Wayne	34	26	240	155
Region 7	234	162	2,270	1,830
State total	1,230	1,085	18,750	18,700
¹ Includes all counties with fewer than 3 operations.				
** Included in Other counties in 1996				

Nursery Acres by County

II. Christmas Trees

There were 54,000 acres in commercial Christmas tree production in Michigan on January 1, 2000 . That was down from 69,000 acres on January 1, 1997. There were 830 commercial growers--operations with at least five acres of Christmas trees. Sixteen plantations had more than 500 acres, down from 20 three years ago. The top five counties, Wexford, Missaukee, Oceana, Montcalm, and Kalkaska, accounted for 46 percent of the Christmas tree acreage. Thirty-two counties had at least ten tree farms.

Sales of Christmas trees in 1999 had a value of \$41.0 million at the producer level. That is up from \$37.2 million in 1996. The number of trees sold by growers fell to 3.18 million from 3.55 million in 1996. There were an additional \$2.5 million of the sales of wreathes, cut boughs, garlands, and other cut greens.

There were 19,000 acres of Scotch Pine at the outset of 2000. Its percentage of total acres, however, fell to 35 percent from 43 percent three years earlier. There were 10,350 acres of Douglas Fir and 9,750 acres of Colorado Blue Spruce. While the acreage of these three trees declined, that of Fraser Fir rose 18 percent to 4,700.

Table 10._Christmas trees: Acres by Michigan Department of Agriculture region and species, January 1, 2000

Species	MDA region							State total
	1	2	3	4	5	6	7	
Fir:								
Balsam	1,250	530	210	125	90	35	10	2,250
Canaan	5	35	105	10	55	20	20	250
Concolor	10	315	330	65	140	35	5	900
Douglas	275	4,610	4,040	250	850	250	75	10,350

Fraser	240	1,700	1,600	260	680	160	60	4,700
Pine:								
Austrian	15	105	65	20	35	40	20	300
Red	75	160	125	40	5	35	10	450
Scotch	520	10,450	5,050	750	1,250	540	440	19,000
White	150	640	230	190	110	130	50	1,500
Spruce:								
Black Hills	10	570	70	30	0	15	5	700
Colorado Blue	240	4,250	3,200	620	740	510	190	9,750
Norway	60	155	60	40	40	80	15	450
White	1,130	1,290	280	280	45	130	45	3,200
Others	20	90	35	20	10	20	5	200
State total	4,000	24,900	15,400	2,700	4,050	2,000	950	54,000

Table 11._Christmas trees: Acres by species, January 1, 1997, and 2000

Species	1997		2000	
	Acres	Percent	Acres	Percent
Firs:				
Balsam	2,100	3.0	2,250	4.2
Canaan ¹	100	0.1	250	0.5
Concolor	750	1.1	900	1.7
Douglas	13,600	19.7	10,350	19.2
Fraser	4,000	5.8	4,700	8.7
Pines:				
Austrian	350	0.5	300	0.6
Red	250	0.4	450	0.8
Scotch	29,500	42.8	19,000	35.2
White	1,300	1.9	1,500	2.8
Spruces:				
Black Hills ¹	700	1.0	700	1.3
Colorado Blue	12,300	17.8	9,750	18.1
Norway	400	0.6	450	0.8
White	3,200	4.6	3,200	5.9
Others	450	0.7	200	0.4
State total	69,000	100.0	54,000	100.0

¹ Included in others in 1997.

Table 12._Christmas trees: Acres and number of operations, by size group

Operation size group	Acres		Number of operations	
	1997	2000	1997	2000
5 to 9.9 acres	1,000	900	155	135
10 to 24.9 acres	5,200	5,000	340	325
25 to 49.9 acres	7,100	5,600	210	165
50 to 99.9 acres	7,700	6,800	115	98
100 to 499.9 acres	24,000	16,200	130	91
500 acres or more	24,000	19,500	20	16
State total	69,000	54,000	970	830

Table 13._Christmas trees: Sales by destination, 1999

Destination	Trees sold
Michigan	934,000
Other states	2,230,000
Out of United States.	16,000
State total	3,180,000

Table 14._Christmas trees: Sales by species, 1999

Species	Sales	Trees	Value per tree	Value of sales
		<i>Number</i>	<i>Dollars</i>	<i>Dollars</i>
Balsam Fir	Wholesale	71,000	13.00	923,000
	Retail	15,000	34.00	510,000
	State total	86,000	16.70	1,433,000
Concolor Fir	Wholesale	30,000	14.00	420,000
	Retail	11,000	45.00	495,000
	State total	41,000	22.30	915,000
Douglas Fir	Wholesale	590,000	13.00	7,670,000
	Retail	45,000	33.00	1,485,000
	State total	635,000	14.40	9,155,000
Fraser Fir	Wholesale	310,000	19.00	5,890,000
	Retail	30,000	45.00	1,350,000
	State total	340,000	21.30	7,240,000
Scotch Pine	Wholesale	1,345,000	8.00	10,760,000
	Retail	125,000	21.00	2,620,000

	State total	1,470,000	9.10	13,380,000
White Pine	Wholesale	37,000	10.00	370,000
	Retail	21,000	22.00	460,000
	State total	58,000	14.30	830,000
Colorado Blue Spruce	Wholesale	290,000	11.00	3,190,000
	Retail	60,000	29.00	1,740,000
	State total	350,000	14.10	4,930,000
White Spruce	Wholesale	110,000	10.00	1,100,000
	Retail	30,000	27.00	810,000
	State total	140,000	13.60	1,910,000
Others	Wholesale	37,000	11.00	407,000
	Retail	23,000	35.00	800,000
	State total	60,000	20.10	1,207,000
All species	Wholesale	2,820,000	10.90	30,730,000
	Retail ¹	360,000	28.50	10,270,000
	State total	3,180,000	12.90	41,000,000

¹ Comprised of 215,000 trees sold choose & cut and 145,000 trees sold already cut.

Table 15._Christmas trees: Number of operations and acres, by county and Michigan Department of Agriculture region

County and MDA region	Number of operations		Acres	
	1997	2000	1997	2000
Chippewa	6	4	270	170
Delta	17	15	800	820
Dickinson	14	9	500	240
Luce	5	3	160	110
Marquette	3	4	130	100
Menominee	31	36	1,600	1,800
Other counties ¹	9	9	740	760
Region 1	85	80	4,200	4,000
Alcona	8	5	360	280
Alpena	8	8	350	200
Antrim	16	17	2,000	1,200
Benzie	12	12	630	600
Cheboygan	21	18	1,100	1,000
Emmett	9	6	180	130

Grand Traverse	18	16	1,550	1,100
Kalkaska	35	27	5,100	3,300
Leelanau	17	13	520	370
Manistee	24	27	2,700	2,600
Missaukee	53	40	7,500	6,500
Otsego	9	5	220	60
Presque Isle	5	7	210	210
Wexford	47	41	8,500	7,300
Other counties ¹	3	3	80	50
Region 2	285	245	31,000	24,900
Ionia	11	6	350	200
Kent	11	8	800	570
Lake	7	6	700	530
Mason	13	15	800	850
Mecosta	20	6	1,400	650
Montcalm	24	25	4,500	3,400
Muskegon	13	12	450	350
Newaygo	24	14	2,300	1,400
Oceana	74	55	6,000	4,500
Osceola	18	22	3,100	2,500
Ottawa	25	16	1,100	450
Region 3	240	185	21,500	15,400
Arenac	4	7	230	160
Clare	7	3	300	120
Genesee	11	12	180	200
Gladwin	4	4	130	130
Iosco	8	7	200	110
Isabella	23	14	750	400
Lapeer	12	11	250	200
Midland	4	5	160	150
Saginaw	15	14	380	350
Sanilac	8	6	360	360
Tuscola	12	9	600	260
Other counties ¹	12	8	260	260
Region 4	120	100	3,800	2,700
Allegan	21	29	2,900	2,500
Berrien	19	14	300	170
Calhoun	10	13	290	220

Cass	6	4	160	100
Kalamazoo	10	9	280	210
Van Buren	16	17	700	750
Other counties ¹	13	4	270	100
Region 5	95	90	4,900	4,050
Clinton	12	8	280	160
Eaton	14	15	240	270
Hillsdale	8	6	270	250
Ingham	13	13	280	310
Jackson	18	19	500	370
Livingston	15	13	310	290
Shiawassee	5	3	130	50
Washtenaw	10	10	350	250
Other counties ¹	5	5	90	50
Region 6	100	92	2,450	2,000
Monroe	6	5	140	130
Oakland	16	15	310	270
St. Clair	9	9	380	410
Other counties	14	9	320	140
Region 7	45	38	1,150	950
State total	970	830	69,000	54,000

¹ Includes all counties with fewer than 3 operations.

Table 16. Percent of growers reporting that insect control issues affect their business significantly, by type of operation				
Type of operation	Wholesale	Retail-cut	Choose & cut	All
Insect Control Issues				
	Percent			
Do not affect business	30.5	39.4	42.9	35.7
Do affect business	69.5	60.6	57.1	64.3
Insect control issues from growers reporting "do affect business" (total may exceed 100%)				
Gypsy moth certification	47.5	25.4	17.5	34.7
Availability of effective insecticides in the market	38.2	32.4	42.9	38.8
Uniformity of MDA field inspections	15.8	12.7	7.8	12.8
Federal quarantines in other states	21.6	16.9	4.5	15.5
Other	5.0	7.0	4.5	5.2

Note: Type of operation defined as channel through which majority of trees were sold.

Table 17._Age distribution of Christmas tree growers

Age category	Percent
Under 30 years of age	2.1
30 - 39 years of age	8.9
40 - 49 years of age	22.8
50 - 59 years of age	30.7
60 - 69 years of age	21.9
70 or more years of age	13.6
Total	100.0

Note: Of the operators over 50, 14 percent had a partner, other than a spouse, under 50. Of the operators over 60, 18 percent had a partner under 40.

by ten-year plan for operation

Table 18._Age distribution of Christmas tree growers

Age category	Will continue	Will not continue	Total
	Percent		
Under 30 years of age	1.6	0.5	2.1
30 - 39 years of age	6.8	2.2	9.0
40 - 49 years of age	15.4	7.4	22.8
50 - 59 years of age	21.0	9.7	30.7
60 - 69 years of age	11.0	10.9	21.9
70 or more years of age	6.2	7.3	13.5
Total	62.0	38.0	100.0

Note: Of the operators over 50, 14 percent had a partner, other than a spouse, under 50. Of the operators over 60, 18 percent had a partner under 40.

Table 19._Plans for Christmas tree operation in the next ten years:

	Percent
Continue current Christmas tree operation	62.0
Turn over Christmas tree operation to a relative	9.2
Discontinue Christmas tree sales, but keep ownership of the acreage	21.8
Sell the Christmas tree acreage to another Christmas tree operator	2.6
Sell the Christmas tree acreage for non-agricultural use	3.5
Other	0.9

Total	100.0
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III. Survey Methods and Questionnaires

The Nursery Grower survey was sent to the Michigan Agricultural Statistics Service's (MASS) list of nurseries and herbaceous ornamental growers. Those lists were supplemented by the Michigan Department of Agriculture's list of licensed nursery growers and plant growers. To qualify, an operation had to have grown at least 0.1 acre of woody ornamentals or herbaceous perennials in 1999 and have planned to sell them either retail or wholesale. There were 1,085 such places. The principal Christmas tree list was again MASS's List Sampling Frame. Additional names were found from the Michigan Christmas Tree Association. To qualify, an operation had to have grown at least five acres of trees for sale as Christmas trees. There were 830 operations that met the criterion for Christmas tree farms.

The data were collected on the attached Nursery Grower and the Christmas Tree questionnaires. These forms were developed with input from industry representatives.

Questionnaires were mailed to the entire universe in early January, 2000. Reminder letters from the Michigan Nursery and Landscape Association and Michigan Christmas Tree Association were sent two weeks later. A week after that, a second mailing of the questionnaire was made. Telephoning of non-respondents commenced in February. This was followed by personal enumeration of operators who could not be reached by phone.

A summary of responses is as follows:

Responses	Growers	
	Nursery	Christmas trees
Mail	490	440
Telephone	380	240
Personal Interview	45	30
Refused	130	85
Inaccessible	40	35
Total	1,085	830

Estimates of total acres were made for refusals and inaccessible. Expansion factors were computed for each of the 7 MDA regions for both surveys:

$(\text{Acres on Usable Reports} + \text{Estimated Acres}) / (\text{Acres on Usable Reports})$

These weights were applied to reported data to account for missing reports.

Some respondents who provided acreage refused income data. Regression and ratio estimators were used to expand missing income data on the Nursery and Christmas tree surveys, respectively.

Michigan Nursery Inventory 1999-2000

At the request of the nursery industry, the Michigan Department of Agriculture is conducting the third triennial inventory. Please complete and return this questionnaire promptly. Your confidential report is needed to evaluate changes during the last three years and is used only for statistical purposes. Response to this survey is voluntary and not required by law.

David D. Kleweno, State Statistician

<p>Include: Trees, shrubs, ground covers, etc. at all stages of growth, except propagation materials.</p> <p style="padding-left: 40px;">Plants that are field-grown and sold bare-rooted, balled and potted, or balled and burlapped.</p> <p style="padding-left: 40px;">Plants grown and sold in containers.</p> <p>Exclude: Liners (lining out stock), young plants such as plug seedlings and tissue cultured plantlets, propagation materials such as cuttings. (Report in item 2.) Also exclude plants purchased for resale without a change in size or status, i.e. bare-root to pot- established.</p>				
<p>Plants grown or produced in 1999</p>	<p>Maximum growing acres (Report to nearest tenth of an acre.)</p>			
	Field grown		Container grown	
Woody plants:				
1. A. Deciduous shade and flowering trees _ash, maple, oak, birch, crab-apple, dogwood, magnolia, etc.	001	*	002	*
B. Deciduous shrubs	003	*	004	*
C. Narrow-leaved evergreens _fir, pine, spruce, other conifers. (Include Christmas trees only if grown as nursery stock.)	005	*	006	*
D. Broad-leaved evergreens _rhododendron, etc.	007	*	008	*
E. Roses	009	*	010	*
F. Fruit trees (Nursery stock only.)	011	*	012	*
G. Small fruits_ grapes, berries, etc. (Nursery stock only.).	013	*	014	*

Non-woody plants: H. Daylilies	015	*	016	*
I. Hosta	017	*	018	*
J. Ornamental grasses	019	*	020	*
K. Other herbaceous perennials	021	*	022	*
L. Vines and ground covers	023	*	024	*
M. Bulbs, corms and rhizomes_tulip, crocus, lily, etc.	025	*	026	*
N. Water garden(aquatic) plants	027	*	028	*
O. Total acres	029	*	030	*

2. How much 1999 production area was used for propagation materials , such as cuttings, liners, plug seedlings, prefinished plants, or tissue cultured plantlets?	Square feet
	031

3. How many paid workers in each category were employed in 1999?		
	Permanent (150 days or more per year)	Seasonal (149 days or fewer per year)
Full-time (32 hours or more per week)	032	033
Part-time (31 hours or less per week)	034	035

4. If more workers had been available in 1999, how many more would you have employed?		
	Permanent (150 days or more per year)	Seasonal (149 days or fewer per year)
Full-time (32 hours or more per week)	036	037
Part-time (31 hours or less per week)	038	039

	Dollars
5. What was the total annual labor payroll for 1999?	040

6. Please report your total 1999 <i>gross</i> wholesale and retail sales volume in dollars.			
Sales	Woody plants (Items A.- G. in Question 1)	Non-woody plants (Items H.- N. in Question 1)	Propagation material from Question 2.

	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Wholesale to retailers	041	042	043
Wholesale to wholesalers	044	045	046
Retail	047	048	049

7. What percent of your wholesale sales in Item 6.,(wholesale to retailers, and wholesale to wholesalers) were in:	Percent
Michigan	050
Other states	051
Other countries	052
Total =	100%

8. List the county or counties where your nursery is located. If your operation is in more than one county, list each county separately with acres and percent of <i>total gross</i> sales by county.		
County	Acres	Percent of sales
053	054	055
056	057	058

Michigan Christmas Tree Inventory 1999-2000

At the request of the Christmas tree industry, the Michigan Department of Agriculture is conducting the third triennial inventory. Please complete and return this questionnaire promptly. Your confidential report is needed to evaluate changes during the last three years and is used only for statistical purposes. Response to this survey is voluntary and not required by law.

Thank you for your cooperation,

David D. Kleweno, State Statistician

<i>Please make address corrections, if needed.</i>
To avoid duplication, indicate below any operation name or partner(s) associated with this operation <i>not</i> included above.
Firm Name: _____
Partner's Name(s): _____

Address: _____		
City: _____	St: _____	Zip: _____

If not growing Christmas trees, check (.)
reason below and give new operator's name:

- | | | | |
|-----------------------------|-----------|-----|---------|
| 1. <input type="checkbox"/> | Operation | | sold. |
| 2. <input type="checkbox"/> | Operation | | rented. |
| 3. <input type="checkbox"/> | Never | had | trees. |

New Operator's Name:

Address:

City:

St:

Zip:

Telephone:

1. A. Total Christmas tree acres on January 1, 2000 (If less than 5 acres, complete this item only and return questionnaire.)	001
	Acres

Example:

2. A. Tree sales in 1999

Species	Wholesale		Retail-cut		Choose and cut	
	Trees sold	Average price per tree	Trees sold	Average price per tree	Trees sold	Average price per tree
	<i>Number</i>	<i>Dollars</i>	<i>Number</i>	<i>Dollars</i>	<i>Number</i>	<i>Dollars</i>
Scotch Pine	002	016	030	044	058	072
Austrian Pine	003	017	031	045	059	073
Red Pine	004	018	032	046	060	074
White Pine	005	019	033	047	061	075
Colorado Blue Spruce	006	020	034	048	062	076
White Spruce	007	021	035	049	063	077
Norway Spruce	008	022	036	050	064	078
Douglas Fir	009	023	037	051	065	079
Fraser Fir	010	024	038	052	066	080
Concolor Fir	011	025	039	053	067	081
Balsam Fir	012	026	040	054	068	082
Canaan Fir	013	027	041	055	069	083
Other (specify)	014	028	042	056	070	084

2. B. Sales of wreathes, cut boughs, and roping (garlands) in 1999

	Dollars		
	088		

2. C. Sales in 1999

Buyer Location	Percent of total
Michigan	085
Out of state	086
Out of U.S.	087
Total =	100%

3. A. What age is the present operator?		3. B. Is there another principal person, excluding a spouse, in this operation?	
<input type="checkbox"/>	Under 30 years of age.	<input type="checkbox"/> Yes <input type="checkbox"/> No . Go to item 4. If yes, what age is that person?	
<input type="checkbox"/>	30-39 years of age.	<input type="checkbox"/>	Under 30 years of age.
<input type="checkbox"/>	40-49 years of age.	<input type="checkbox"/>	60-69 years of age.
<input type="checkbox"/>	50-59 years of age.	<input type="checkbox"/>	30-39 years of age.
<input type="checkbox"/>	60-69 years of age.	<input type="checkbox"/>	70 or more years of age.
<input type="checkbox"/>	70 or more years of age.	<input type="checkbox"/>	40-49 years of age.
<input type="checkbox"/>		<input type="checkbox"/>	50-59 years of age.

4. (Check the **one** response that best describes your intentions.) Within the next 10 years I plan to:

<input type="checkbox"/>	Continue my current Christmas tree operation.	<input type="checkbox"/>	Turn over this Christmas tree operation to a relative.
	(Skip to item 5.)	<input type="checkbox"/>	Discontinue Christmas tree sales, but keep ownership of the acreage.
	OR .	<input type="checkbox"/>	Sell the Christmas tree acreage to another Christmas tree operator.
		<input type="checkbox"/>	Sell the Christmas tree acreage for non-agricultural use.
		<input type="checkbox"/>	Other _____
			(specify)

5. Which of the following insect control issues do you consider significant to your Christmas tree business?
(Check as many as apply.)

<input type="checkbox"/>	Insect control issues do not affect my business.	<input type="checkbox"/>	Gypsy moth certification.
	OR .	<input type="checkbox"/>	Availability of effective insecticides in the market.
		<input type="checkbox"/>	Uniformity of MDA field inspections.
		<input type="checkbox"/>	Federal quarantines in other states.
		<input type="checkbox"/>	Other _____
			(specify)

So that we can ensure complete coverage, please give the name of another nearby Christmas tree operation:

Name	Address	City	Telephone

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Michigan Agricultural Statistics Service

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