

Michigan Rotational Survey

# Fruit Inventory 2000-2001



Michigan Department Of Agriculture  
Michigan Agricultural Statistics Service



## Michigan Rotational Survey

# Fruit Inventory 2000-2001

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### Michigan Agricultural Statistics Service

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Issued cooperatively by:



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August 2001

The Michigan Department of Agriculture and Michigan Agricultural Statistics Service proudly present the results of the 2000 Michigan Fruit Inventory. This bulletin represents a cooperative effort between the private and public sectors to provide data critical to the planning process for Michigan's agricultural industries.

This is the tenth report to be published under the Michigan Rotational Survey program, which is funded by the Michigan legislature, administered by the Michigan Department of Agriculture, and conducted by the federal/state Michigan Agricultural Statistics Service. The first fruit inventory under this program was conducted in 1991, followed by a vegetable survey in 1992, and a nursery and Christmas tree survey in 1993. The three-year rotation of crop surveys has been repeated since then, and continues today.

Michigan fruit growers should be lauded for their cooperation and assistance in voluntarily providing the data that made this report possible. A special **thank you** is also extended to Michigan-grown fruit processors, other industry officials, Michigan State University-Extension, and the data collectors of the National Association of State Departments of Agriculture, who helped with the data collection and verification process.

We look forward to the continued successful relationship of our two organizations, as we work together for the benefit of Michigan agriculture. If you have any questions regarding this publication, or suggested improvements, please contact the Michigan Agricultural Statistics Service at (800) 453-7501.

Sincerely,

A handwritten signature in black ink that reads "Dan Wyant".

Dan Wyant  
Director

A handwritten signature in black ink that reads "David D. Kleweno".

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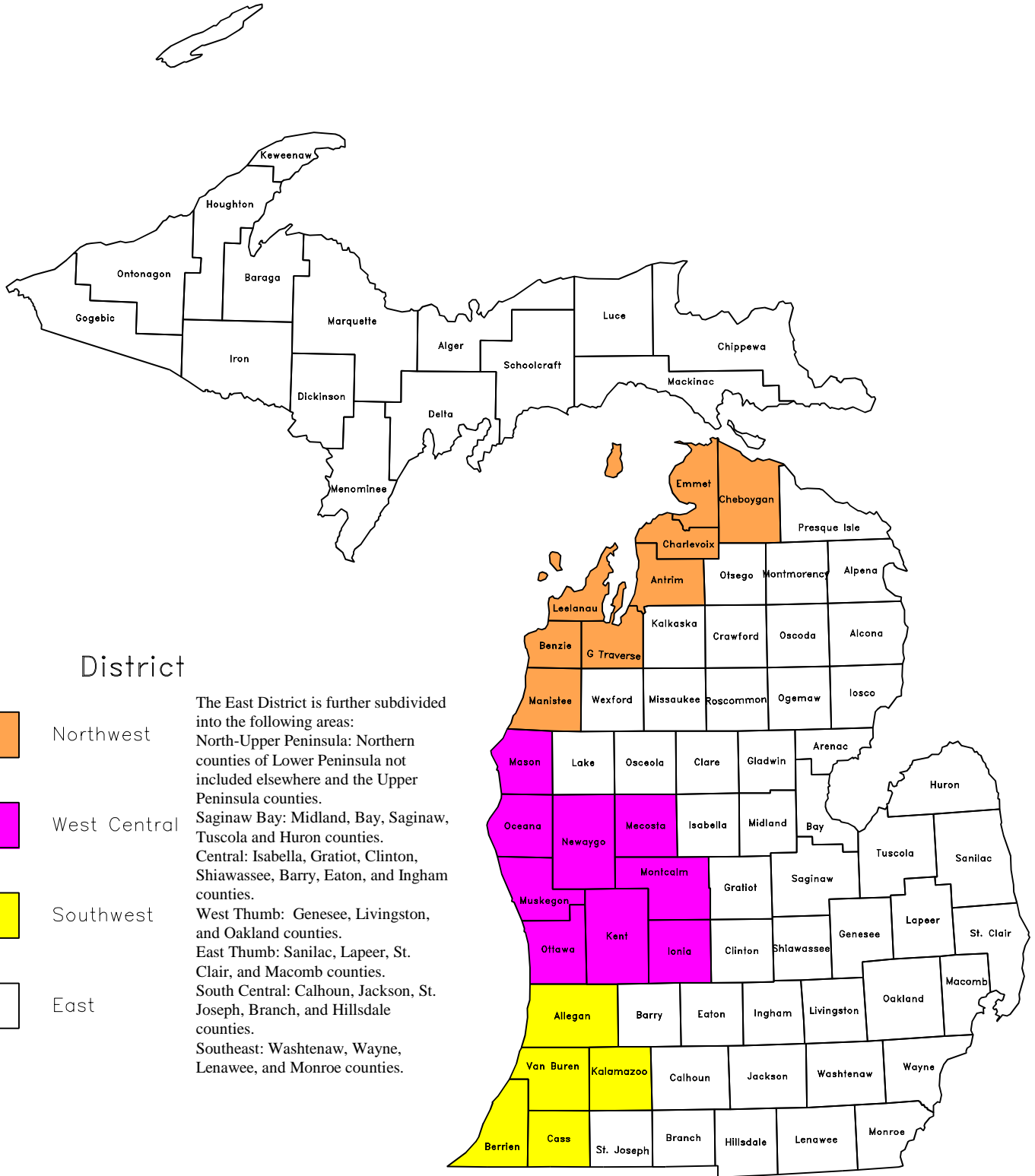
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# Michigan Fruit Districts



## All Fruit

There were 127,920 acres of fruit on commercial operations at the end of 2000. That compares with 140,735 acres at the end of 1997. The 1997 figure does not include cranberries, which were added to the fruit rotational survey in 2000; the 2000 number excludes apricots. Most of the decline in acres from 1997 to 2000 was in apples. There was also less land in most of the other fruit species. The exceptions were blueberries and grapes, which had acreage increases of 500 and 1,000, respectively.

There were 2,377 commercial fruit farms at the end of 2000. A commercial fruit farm was defined as having at

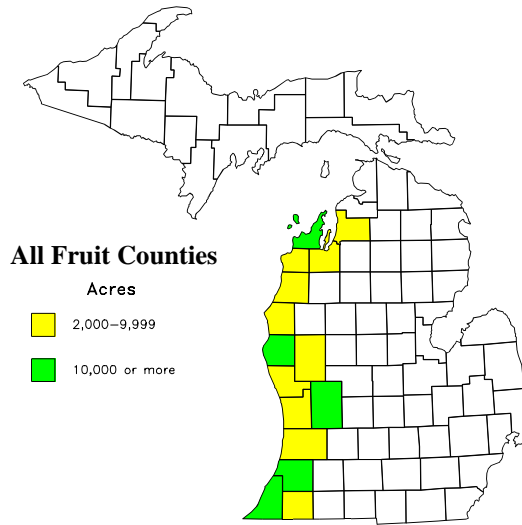
least one acre of any tree fruit or one-third of an acre of any berry.

The geographic concentration of fruit varied substantially. The top five apple counties accounted for 60 percent of the total acres. The comparable figures for tart cherries and blueberries were 78 percent and 95 percent, respectively. The counties with the most acres of fruit, in order, were: Van Buren, Berrien, Leelanau, Oceana, and Kent. They contained 60 percent of the acres of fruit in Michigan.

**All fruit: Number of farms and acres, by county and district**

County and district	Total farms	Apples	Cherries, tart	Cherries, sweet	Blueberries	Grapes	Peaches	Plums
Antrim	44	660	2,080	810				
Benzie	39	930	1,200	270				
Grand Traverse	124	900	4,100	1,800		255		60
Leelanau	184	2,000	8,100	4,150		275	50	185
Manistee	43	1,150	850	250			95	
Charlevoix, Cheboygan, Emmet	17	60	170					
<b>Northwest</b> <sup>3</sup>	451	5,700	16,500	7,300	25	550	210	280
Ionia	20	950						
Kent	115	10,300	280				85	
Mason	36	1,650	1,800	530			330	80
Montcalm, Mecosta	22	950						
Muskegon	44	2,300	170		920		95	
Newaygo	20	1,700	210				85	
Oceana	111	3,550	7,750	480			1,800	155
Ottawa	161	4,000			5,400		110	
<b>West Central</b> <sup>3</sup>	529	25,400	10,300	1,100	6,620	37	2,540	300
Allegan	123	850	280		2,650		470	40
Berrien	407	5,300	1,950	160	960	7,000	1,800	150
Cass	25	1,100	120					
Kalamazoo	24	250	140					
Van Buren	362	5,200	1,450	45	7,250	4,850	420	185
<b>Southwest</b> <sup>3</sup>	941	12,700	3,940	230	10,900	12,800	2,730	390
North	96	220	16	8	26		15	
Saginaw Bay	59	150	7		125		16	
Central	64	620		5	48		8	
West Thumb	41	610	7	8	93		16	
East Thumb	67	900	13	33	115		95	
South Central	46	400	6		26	81	10	
Southeast	83	800		8	22	8	60	
<b>East</b> <sup>3</sup>	456	3,700	60	70	455	113	220	30
<b>Michigan</b>	2,377	47,500	30,800	8,700	18,000	13,500	5,700	1,000

--continued



**All fruit: Number of farms and acres, by county and district (continued)**

County and district	Pears	Brambles	Cranberries	Nectarines	Strawberries	Other <sup>1</sup>	All fruit	
							2000	1997 <sup>2</sup>
Antrim	40					60	3,650	3,860
Benzie	16					54	2,470	2,920
Grand Traverse	45					50	7,210	7,770
Leelanau	26				35	9	14,830	14,800
Manistee					65	30	2,440	3,520
Charlevoix, Cheboygan, Emmet			150			60	440	370
<b>Northwest</b>	150	40	150	3	132		31,040	33,240
Ionia						55	1,005	1,675
Kent					70	145	10,880	12,700
Mason	95					80	4,565	4,560
Montcalm, Mecosta						100	1,050	1,145
Muskegon						20	3,505	3,995
Newaygo						135	2,130	2,585
Oceana	240				20	110	14,105	14,250
Ottawa					25	165	9,700	9,760
<b>West Central</b>	385	40	20	15	183		46,940	50,670
Allegan	62					138	4,490	5,290
Berrien	85	140			80	70	17,695	20,175
Cass					50	550	1,820	2,190
Kalamazoo						430	820	1,075
Van Buren	80					110	19,590	21,465
<b>Southwest</b>	230	170	65	90	170		44,415	50,195
North	6	37			105	17	450	445
Saginaw Bay	10	14			64	9	395	455
Central		33			130	11	855	1,205
West Thumb		25			36	10	805	910
East Thumb	35	44			89	26	1,350	1,595
South Central	7	9			64	7	610	770
Southeast	19	48			77	18	1,060	1,250
<b>East</b>	85	210	15	2	565		5,525	6,630
<b>Michigan</b>	850	460	250	110	1,050		127,920	140,735

<sup>1</sup> Fruits combined to avoid disclosing data for individual operations.

<sup>2</sup> Includes apricots, excludes cranberries.

<sup>3</sup> Totals may not add due to combining fruits to avoid disclosing data for individual operations.



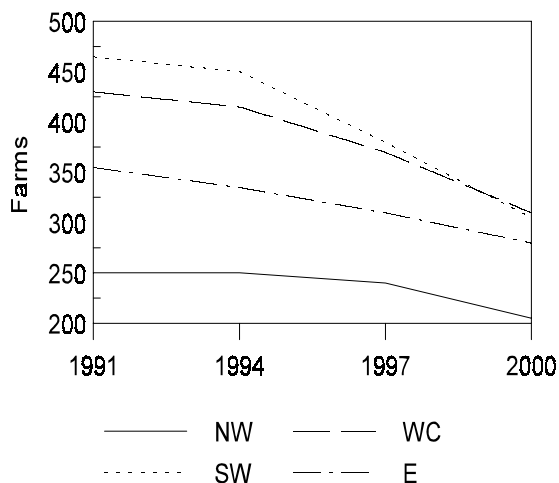
# Apples

Apples: Number of farms and acres, by county and district

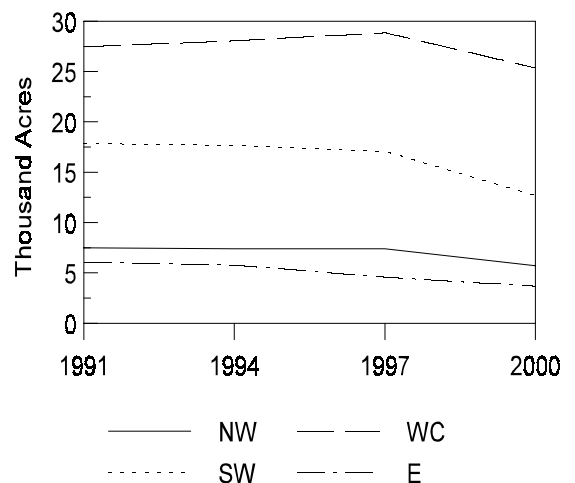
County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Antrim <sup>1</sup>	37	36	33	29	850	750	800	720
Benzie	31	32	30	26	1,200	1,250	1,250	930
Grand Traverse	69	65	66	54	1,150	1,100	1,100	900
Leelanau	74	78	77	67	2,200	2,250	2,400	2,000
Manistee	39	39	34	29	2,100	2,050	1,850	1,150
<b>Northwest</b>	250	250	240	205	7,500	7,400	7,400	5,700
Ionia	36	31	26	17	2,000	1,900	1,650	950
Kent	150	145	125	100	11,800	11,800	12,000	10,300
Mason	36	36	36	28	1,500	1,500	1,700	1,650
Montcalm, Mecosta	16	14	14	11	950	1,000	1,050	950
Muskegon	18	16	15	16	2,200	2,150	2,500	2,300
Newaygo	24	21	20	15	1,900	2,000	2,100	1,700
Oceana	90	95	86	77	3,350	3,600	3,700	3,550
Ottawa	60	57	48	46	3,800	4,150	4,200	4,000
<b>West Central</b>	430	415	370	310	27,500	28,100	28,900	25,400
Allegan	63	61	52	35	1,700	1,600	1,300	850
Berrien	255	247	202	165	8,100	7,850	7,200	5,300
Cass	21	18	18	19	1,050	1,000	1,050	1,100
Kalamazoo	16	14	11	8	650	550	450	250
Van Buren	110	110	97	78	6,400	6,700	7,100	5,200
<b>Southwest</b>	465	450	380	305	17,900	17,700	17,100	12,700
North	62	56	56	55	270	260	250	220
Saginaw Bay	29	27	27	26	240	200	180	150
Central	59	57	52	40	1,000	960	920	620
West Thumb	39	37	34	30	1,050	1,000	640	610
East Thumb	68	64	54	48	1,800	1,650	1,050	900
South Central	34	33	27	25	750	750	580	400
Southeast	64	61	60	56	990	980	980	800
<b>East</b>	355	335	310	280	6,100	5,800	4,600	3,700
<b>Michigan</b>	1,500	1,450	1,300	1,100	59,000	59,000	58,000	47,500

<sup>1</sup> Includes Charlevoix, Cheboygan, and Emmet.

## Apple Farms



## Apple Acres



**Apples: Acres by variety and year planted**

Year planted	Cortland	Empire	Fuji	Gala	Ginger Gold	Golden Delicious
1965 and before	45	27	0	6	0	840
1966-1970	3	11	2	1	0	635
1971-1975	18	99	2	4	0	385
1976-1980	33	355	0	9	0	420
1981	17	160	0	3	0	75
1982	7	230	0	2	0	175
1983	13	225	2	4	0	135
1984	8	240	0	3	0	175
1985	10	275	7	39	5	130
1986	13	130	0	30	1	145
1987	18	125	3	89	1	140
1988	12	105	0	145	0	160
1989	26	145	8	83	0	230
1990	22	205	4	170	12	200
1991	17	115	78	165	16	145
1992	25	175	100	96	24	170
1993	37	180	67	52	14	165
1994	28	70	100	96	18	180
1995	20	20	41	115	52	260
1996	55	18	73	175	62	410
1997	20	20	34	355	25	240
1998	24	5	14	275	48	220
1999	5	4	12	97	22	140
2000	14	1	13	66	0	115
Michigan	490	2,940	560	2,080	300	5,890
	Honeycrisp	Ida Red	Jonagold	Jonamac	Jonathan (regular)	Jonathan (sport)
1965 and before	0	415	0	1	1,745	39
1966-1970	0	300	0	8	225	90
1971-1975	0	595	5	13	165	53
1976-1980	0	1,115	5	6	205	77
1981	0	155	0	5	18	20
1982	0	160	9	23	50	60
1983	0	195	4	16	71	42
1984	0	150	3	16	59	63
1985	0	135	6	46	76	38
1986	0	77	6	5	17	53
1987	0	70	11	15	27	135
1988	0	66	11	14	30	89
1989	0	57	17	2	54	115
1990	0	36	66	5	87	125
1991	0	40	150	24	61	96
1992	0	45	155	14	72	47
1993	3	43	160	32	33	65
1994	4	38	195	28	37	88
1995	23	53	88	15	33	74
1996	40	82	105	16	35	62
1997	95	72	120	2	29	33
1998	105	45	52	2	30	85
1999	120	105	21	2	27	27
2000	140	71	1	0	14	24
Michigan	530	4,120	1,190	310	3,200	1,600

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**Apples: Acres by variety and year planted (continued)**

Year planted	McIntosh	Mutsu	Northern Spy	Paula Red	Red Delicious (regular)	Red Delicious (sport)
1965 and before	535	30	525	47	915	630
1966-1970	180	40	310	180	255	345
1971-1975	265	56	230	250	170	720
1976-1980	475	44	255	170	185	1,050
1981	89	12	30	28	38	520
1982	205	9	39	44	58	665
1983	145	25	125	9	100	435
1984	85	21	74	10	74	615
1985	63	65	130	19	54	330
1986	41	43	77	11	23	455
1987	145	31	83	23	16	520
1988	130	12	45	6	14	400
1989	140	47	87	6	28	335
1990	145	11	105	4	16	180
1991	49	27	79	7	6	120
1992	45	15	38	27	9	67
1993	34	25	25	3	2	73
1994	35	15	59	5	2	190
1995	51	27	22	1	29	265
1996	37	21	69	8	4	305
1997	27	12	69	2	22	285
1998	35	23	27	9	20	265
1999	39	35	18	15	1	210
2000	35	4	29	16	9	150
Michigan	3,030	650	2,550	900	2,050	9,130
	R I Greening	Rome (regular)	Rome (sport)	Winesap	Other	Michigan
1965 and before	170	445	40	125	105	6,685
1966-1970	125	225	19	47	59	3,060
1971-1975	32	395	47	36	110	3,650
1976-1980	24	490	175	27	115	5,235
1981	10	86	130	1	33	1,430
1982	0	75	72	3	49	1,935
1983	7	165	35	2	70	1,825
1984	4	135	45	5	60	1,845
1985	6	52	98	6	65	1,655
1986	0	61	69	9	29	1,295
1987	0	59	44	7	38	1,600
1988	0	12	33	1	55	1,340
1989	0	72	96	1	36	1,585
1990	0	53	110	12	42	1,610
1991	3	45	69	1	82	1,395
1992	13	34	48	6	105	1,330
1993	0	3	41	1	47	1,105
1994	0	26	33	13	55	1,315
1995	2	4	13	10	37	1,255
1996	0	19	13	12	99	1,720
1997	2	10	18	3	115	1,610
1998	2	0	13	1	25	1,325
1999	0	0	1	8	36	945
2000	0	4	8	3	33	750
Michigan	400	2,470	1,270	340	1,500	47,500

**Apples: Trees by variety and year planted**

Year planted	Cortland	Empire	Fuji	Gala	Gold	Golden Delicious
1965 and before	1,900	2,800	0	1,800	0	67,800
1966-1970	300	1,200	600	300	0	70,600
1971-1975	2,100	13,700	600	1,200	0	48,300
1976-1980	4,300	52,200	0	1,600	0	57,300
1981	2,300	22,500	0	800	0	10,400
1982	900	41,900	0	900	0	23,100
1983	1,900	31,700	500	1,100	0	17,000
1984	1,100	41,600	0	800	0	25,300
1985	1,300	39,900	2,900	5,400	2,000	17,800
1986	2,000	22,400	0	5,600	400	22,700
1987	2,800	19,200	700	20,700	300	22,900
1988	3,600	20,400	0	46,900	0	27,400
1989	4,000	30,800	3,700	23,000	0	42,700
1990	3,100	40,400	1,900	57,300	5,500	47,700
1991	3,500	31,500	21,300	56,500	6,400	31,700
1992	6,600	53,600	42,300	28,000	8,600	39,900
1993	11,700	56,500	23,900	18,600	3,600	58,200
1994	10,100	20,900	32,100	44,100	5,600	49,100
1995	5,500	5,100	17,600	45,800	23,100	59,200
1996	13,700	4,900	24,800	68,000	27,000	116,000
1997	3,600	4,400	12,800	143,000	9,900	65,300
1998	3,900	1,000	6,400	109,000	20,100	62,300
1999	1,100	1,100	5,700	40,100	4,500	41,600
2000	3,200	300	5,200	33,500	0	30,700
Michigan	94,500	560,000	203,000	754,000	117,000	1,055,000
	Honeycrisp	Ida Red	Jonagold	Jonamac	Jonathan (regular)	Jonathan (sport)
1965 and before	0	31,200	0	100	104,000	3,200
1966-1970	0	31,800	0	1,000	20,200	10,200
1971-1975	0	81,200	1,300	2,000	17,800	7,200
1976-1980	0	148,000	1,300	900	21,800	11,000
1981	0	22,500	0	700	2,300	2,700
1982	0	21,800	1,500	3,100	7,800	10,600
1983	0	26,900	900	1,900	8,600	5,500
1984	0	23,700	500	2,500	9,600	11,600
1985	0	19,400	800	6,300	14,500	5,100
1986	0	12,500	1,200	900	2,100	9,300
1987	0	11,800	2,300	2,400	4,500	19,800
1988	0	10,500	2,300	2,300	4,700	23,100
1989	0	9,400	3,300	400	10,300	24,200
1990	0	7,300	14,900	2,200	12,600	24,700
1991	0	6,800	52,800	6,600	9,300	23,700
1992	0	12,900	58,400	3,200	17,700	8,800
1993	650	6,600	56,800	11,500	5,800	19,400
1994	950	5,200	77,000	6,600	8,900	20,000
1995	7,600	9,100	30,600	4,300	4,800	19,300
1996	12,500	13,200	36,400	6,000	5,900	16,200
1997	22,600	15,600	42,700	300	5,600	12,700
1998	26,600	9,800	18,000	500	5,700	16,700
1999	39,000	28,500	6,700	800	6,300	10,100
2000	47,100	19,300	300	0	4,200	8,900
Michigan	157,000	585,000	410,000	66,500	315,000	324,000

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**Apples: Trees by variety and year planted (continued)**

Year planted	McIntosh	Mutsu	Northern Spy	Paula Red	Red Delicious (regular)	Red Delicious (sport)
1965 and before	26,500	3,000	25,400	5,500	58,200	57,400
1966-1970	19,500	4,400	35,200	20,000	31,000	42,700
1971-1975	38,600	6,100	26,500	33,600	20,700	110,000
1976-1980	68,300	6,500	32,600	22,400	24,400	176,000
1981	12,500	1,500	4,400	3,400	4,600	82,000
1982	30,600	1,300	4,600	5,100	6,900	149,000
1983	24,600	3,200	19,600	1,300	12,600	69,200
1984	13,100	3,000	11,500	1,400	10,700	110,000
1985	10,500	7,000	16,100	2,500	11,300	51,700
1986	8,100	6,200	10,900	2,100	3,200	86,600
1987	22,300	4,000	13,300	3,000	3,100	86,300
1988	23,800	1,900	7,700	1,500	3,000	79,100
1989	29,700	6,500	14,500	1,600	7,300	71,000
1990	26,800	1,500	20,000	1,000	2,300	34,600
1991	12,900	4,400	13,300	2,500	2,000	36,200
1992	7,200	2,400	6,200	9,000	1,500	19,300
1993	6,800	4,900	6,500	700	300	15,300
1994	9,600	2,100	8,600	950	300	65,500
1995	8,000	4,900	3,900	350	7,400	72,400
1996	7,500	4,000	13,400	1,700	500	84,100
1997	4,700	2,300	13,500	600	4,800	101,000
1998	8,600	4,600	5,800	3,800	7,000	79,900
1999	12,500	7,200	2,200	7,300	300	61,400
2000	7,300	600	4,300	3,700	1,600	49,300
Michigan	440,000	93,500	320,000	135,000	225,000	1,790,000
	R I Greening	Rome (regular)	Rome (sport)	Winesap	Other	Michigan
1965 and before	10,200	28,200	4,900	7,400	6,500	446,000
1966-1970	13,300	25,300	2,800	4,300	6,300	341,000
1971-1975	3,700	53,400	7,700	3,500	12,800	492,000
1976-1980	2,600	60,000	28,800	3,400	16,600	740,000
1981	1,300	11,600	21,500	100	3,900	211,000
1982	0	11,600	10,900	400	6,000	338,000
1983	1,200	23,200	5,700	200	9,200	266,000
1984	600	22,300	6,900	600	8,200	305,000
1985	1,000	7,400	17,300	800	8,000	249,000
1986	0	11,300	10,700	900	4,900	224,000
1987	0	9,100	6,600	800	5,100	261,000
1988	0	1,800	6,200	100	7,700	274,000
1989	0	10,800	20,200	200	6,400	320,000
1990	0	10,700	23,000	1,700	12,800	352,000
1991	400	7,700	14,400	200	23,900	368,000
1992	2,300	5,200	13,200	1,700	27,000	375,000
1993	0	450	12,200	100	17,500	338,000
1994	0	5,300	8,600	5,300	18,200	405,000
1995	300	750	2,900	1,500	8,600	343,000
1996	0	3,200	3,100	2,500	26,400	491,000
1997	300	2,000	3,200	600	32,500	504,000
1998	300	0	2,200	200	5,600	398,000
1999	0	0	200	1,100	9,300	287,000
2000	0	700	1,800	400	9,600	232,000
Michigan	37,500	312,000	235,000	38,000	293,000	8,560,000

**Apples: Acres and trees by district and variety**

Variety	Northwest		Mason-Oceana		Grand Rapids	
	Acres	Trees	Acres	Trees	Acres	Trees
Cortland	45	6,100	90	12,000	175	41,600
Empire	250	42,600	265	39,500	1,690	331,000
Fuji	15	5,500	5	1,000	365	145,000
Gala	110	27,000	160	30,800	1,250	507,000
Ginger Gold	35	12,700	0	0	185	77,000
Golden Delicious	670	101,000	600	80,900	1,870	384,000
Honeycrisp	120	32,300	145	30,500	155	46,400
Ida Red	890	130,000	725	110,000	1,840	254,500
Jonagold	165	51,500	120	25,200	545	213,000
Jonamac	10	3,500	10	1,900	200	45,200
Jonathan (regular)	250	21,200	330	34,800	920	104,000
Jonathan (sport)	70	11,400	140	22,700	695	166,500
McIntosh	710	95,000	340	44,300	1,180	188,000
Mutsu	115	16,000	180	24,500	95	14,900
Northern Spy	1,070	142,000	460	51,500	590	76,700
Paula Red	20	2,600	45	13,800	485	75,600
R I Greening	120	12,800	210	19,100	0	0
Red Delicious (regular)	260	23,000	240	17,900	630	69,900
Red Delicious (sport)	360	55,800	630	104,000	4,690	919,000
Rome (regular)	125	20,000	250	30,200	1,285	172,000
Rome (sport)	95	18,600	50	8,300	760	155,000
Winesap	5	700	10	800	90	8,700
Other	190	28,700	195	26,300	505	135,000
<b>Total</b>	<b>5,700</b>	<b>860,000</b>	<b>5,200</b>	<b>730,000</b>	<b>20,200</b>	<b>4,130,000</b>
	<b>Southwest</b>		<b>East</b>		<b>Michigan</b>	
	<b>Acres</b>	<b>Trees</b>	<b>Acres</b>	<b>Trees</b>	<b>Acres</b>	<b>Trees</b>
Cortland	70	17,300	110	17,500	490	94,500
Empire	560	114,000	175	32,900	2,940	560,000
Fuji	80	24,300	95	27,200	560	203,000
Gala	380	128,000	180	61,200	2,080	754,000
Ginger Gold	35	7,000	45	20,300	300	117,000
Golden Delicious	2,300	422,000	450	67,100	5,890	1,055,000
Honeycrisp	75	39,800	35	8,000	530	157,000
Ida Red	415	56,900	250	33,600	4,120	585,000
Jonagold	250	94,500	110	25,800	1,190	410,000
Jonamac	70	11,000	20	4,900	310	66,500
Jonathan (regular)	1,470	132,000	230	23,000	3,200	315,000
Jonathan (sport)	670	116,500	25	6,900	1,600	324,000
McIntosh	335	50,700	465	62,000	3,030	440,000
Mutsu	200	29,600	60	8,500	650	93,500
Northern Spy	210	28,400	220	21,400	2,550	320,000
Paula Red	275	33,500	75	9,500	900	135,000
R I Greening	65	4,800	5	800	400	37,500
Red Delicious (regular)	620	76,900	300	37,300	2,050	225,000
Red Delicious (sport)	3,050	635,000	400	76,200	9,130	1,790,000
Rome (regular)	705	74,600	105	15,200	2,470	312,000
Rome (sport)	355	51,300	10	1,800	1,270	235,000
Winesap	205	24,900	30	2,900	340	38,000
Other	305	57,000	305	46,000	1,500	293,000
<b>Total</b>	<b>12,700</b>	<b>2,230,000</b>	<b>3,700</b>	<b>610,000</b>	<b>47,500</b>	<b>8,560,000</b>

**Apples: Acres by district and year planted**

Year planted	Northwest	Mason-Oceana	Grand Rapids	Southwest	East	Michigan
1965 and before	875	705	1,850	2,580	675	6,685
1966-1970	575	435	1,050	790	210	3,060
1971-1975	325	320	1,470	1,250	285	3,650
1976-1980	650	715	2,320	1,130	420	5,235
1981	185	60	710	365	110	1,430
1982	200	110	875	635	115	1,935
1983	315	130	745	395	240	1,825
1984	235	95	830	630	55	1,845
1985	260	230	700	350	115	1,655
1986	96	170	630	300	99	1,295
1987	155	175	735	380	155	1,600
1988	75	105	775	305	80	1,340
1989	215	170	790	300	105	1,580
1990	295	225	620	355	115	1,610
1991	145	160	630	330	130	1,395
1992	105	225	575	285	140	1,330
1993	93	90	570	275	77	1,105
1994	77	145	615	405	73	1,315
1995	115	95	595	320	130	1,255
1996	220	165	835	350	155	1,725
1997	185	180	875	265	105	1,610
1998	120	185	545	415	60	1,325
1999	74	155	515	175	26	945
2000	110	155	345	115	25	750
Total	5,700	5,200	20,200	12,700	3,700	47,500

**Apples: Trees by district and year planted**

Year planted	Northwest	Mason-Oceana	Grand Rapids	Southwest	East	Michigan
1965 and before	49,600	44,100	110,000	205,000	37,300	446,000
1966-1970	67,700	43,000	112,000	92,400	25,900	341,000
1971-1975	40,100	39,300	220,000	157,000	35,600	492,000
1976-1980	88,400	84,600	326,000	167,000	74,000	740,000
1981	27,400	8,200	110,000	49,700	15,700	211,000
1982	26,800	15,000	140,000	140,000	16,200	338,000
1983	50,000	18,400	105,000	58,600	34,000	266,000
1984	37,500	14,600	143,000	102,000	7,900	305,000
1985	36,400	30,500	115,000	51,700	15,400	249,000
1986	16,000	28,600	115,000	48,500	15,900	224,000
1987	25,600	27,400	125,000	58,300	24,700	261,000
1988	12,100	15,500	183,000	47,500	15,900	274,000
1989	37,400	24,600	181,000	56,400	20,600	320,000
1990	58,200	38,000	158,000	74,700	23,100	352,000
1991	34,900	27,400	191,000	82,500	32,200	368,000
1992	21,500	56,000	204,000	56,000	37,500	375,000
1993	17,100	16,400	191,000	89,700	23,800	338,000
1994	20,800	20,500	210,000	139,000	14,700	405,000
1995	20,400	14,000	188,000	77,000	43,600	343,000
1996	47,300	30,400	250,000	118,000	45,300	491,000
1997	40,300	36,500	312,000	93,000	22,200	504,000
1998	32,900	34,600	173,000	139,000	18,500	398,000
1999	18,600	34,300	163,000	66,600	4,500	287,000
2000	33,000	28,100	105,000	60,400	5,500	232,000
Total	860,000	730,000	4,130,000	2,230,000	610,000	8,560,000

**Apples: Acres by rootstock and variety**

Variety	Seedling	111	106	7 (VII)	26	Mark
Cortland	45	94	57	78	78	21
Empire	72	670	345	860	455	115
Fuji	3	32	20	72	140	74
Gala	8	150	175	380	385	155
Ginger Gold	0	41	14	25	56	18
Golden Delicious	700	1,070	1,150	1,220	600	125
Honeycrisp	5	72	135	67	80	5
Ida Red	510	1,010	870	830	205	36
Jonagold	0	110	145	225	265	130
Jonamac	0	56	37	135	19	21
Jonathan (regular)	1,400	530	335	415	96	59
Jonathan (sport)	25	330	340	505	105	47
McIntosh	500	420	535	675	290	61
Mutsu	30	130	145	145	82	9
Northern Spy	500	250	505	480	260	120
Paula Red	26	200	280	180	55	23
R I Greening	810	360	300	165	85	12
Red Delicious (regular)	680	2,410	1,850	2,070	1,200	47
Red Delicious (sport)	150	27	62	48	2	0
Rome (regular)	550	605	370	465	130	12
Rome (sport)	51	370	145	400	79	13
Winesap	110	73	45	55	13	5
Other	125	190	240	355	220	42
Michigan	6,300	9,200	8,100	9,850	4,900	1,150
	9 (IX)	Interstem	Bud 9	Other	Unknown	Michigan
Cortland	28	3	9	2	75	490
Empire	66	29	3	5	320	2,940
Fuji	165	11	20	3	20	560
Gala	480	16	160	11	160	2,080
Ginger Gold	89	0	10	2	45	300
Golden Delicious	260	27	39	59	640	5,890
Honeycrisp	77	0	21	16	52	530
Ida Red	125	38	14	27	455	4,120
Jonagold	210	4	32	14	55	1,190
Jonamac	22	0	0	0	20	310
Jonathan (regular)	46	18	0	31	270	3,200
Jonathan (sport)	97	5	0	6	140	1,600
McIntosh	92	24	7	26	400	3,030
Mutsu	11	2	0	10	86	650
Northern Spy	43	26	5	6	355	2,550
Paula Red	45	7	1	3	80	900
R I Greening	38	21	10	9	240	2,050
Red Delicious (regular)	195	64	9	50	555	9,130
Red Delicious (sport)	0	0	0	15	96	400
Rome (regular)	75	21	0	22	220	2,470
Rome (sport)	50	20	0	2	140	1,270
Winesap	9	6	0	3	21	340
Other	77	8	10	28	205	1,500
Michigan	2,300	350	350	350	4,650	47,500



**Apples: Acres and trees by district and rootstock**

Rootstock	Northwest		Oceana-Mason		Grand Rapids	
	Acres	Trees	Acres	Trees	Acres	Trees
Seedling	790	50,000	780	54,500	2,220	149,000
111	720	103,000	1,280	174,000	3,860	567,000
106	1,680	242,000	1,030	167,000	2,540	424,000
7 (VII)	580	99,000	730	115,000	4,820	826,000
26	470	115,000	170	36,000	2,930	850,000
Mark	105	32,000	130	45,000	600	249,000
9 (IX)	35	22,200	105	29,800	1,420	607,000
Interstem	35	5,100	5	900	110	25,500
Bud 9	15	6,800	10	4,400	290	161,000
Other	40	7,900	90	9,400	90	18,500
Unknown	1,230	177,000	870	94,000	1,320	253,000
<b>Total</b>	<b>5,700</b>	<b>860,000</b>	<b>5,200</b>	<b>730,000</b>	<b>20,200</b>	<b>4,130,000</b>
	Southwest		East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees
Seedling	2,000	154,000	510	25,500	6,300	433,000
111	3,020	383,000	320	38,000	9,200	1,265,000
106	2,490	463,000	360	44,000	8,100	1,340,000
7 (VII)	2,890	470,000	830	115,000	9,850	1,625,000
26	790	265,000	540	149,000	4,900	1,415,000
Mark	205	82,000	110	32,000	1,150	440,000
9 (IX)	430	262,000	310	94,000	2,300	1,015,000
Interstem	90	19,500	110	26,000	350	77,000
Bud 9	30	20,800	5	2,000	350	195,000
Other	95	15,700	35	3,500	350	55,000
Unknown	660	95,000	570	81,000	4,650	700,000
<b>Total</b>	<b>12,700</b>	<b>2,230,000</b>	<b>3,700</b>	<b>610,000</b>	<b>47,500</b>	<b>8,560,000</b>

**Apples: Number of farms and acres with 500 or more trees per acre by size group**

High density size group	1997		2000	
	Farms	Acres	Farms	Acres
Less than 1 acre	16	10	23	10
1-4.9 acres	37	100	32	90
5-9.9 acres	12	85	13	95
10-24.9 acres	16	265	23	395
25-49.9 acres	14	450	14	520
50 acres or more	10	890	8	890
<b>Michigan</b>	<b>105</b>	<b>1,800</b>	<b>113</b>	<b>2,000</b>

**Apples: Number of farms and acres with 500 or more trees per acre by district**

District	1997		2000	
	Farms	Acres	Farms	Acres
Northwest, Oceana-Mason, and East	21	160	25	160
Grand Rapids	43	990	48	1,180
Southwest	41	650	40	660
<b>Michigan</b>	<b>105</b>	<b>1,800</b>	<b>113</b>	<b>2,000</b>

### Apples: Number of farms and acres by size group

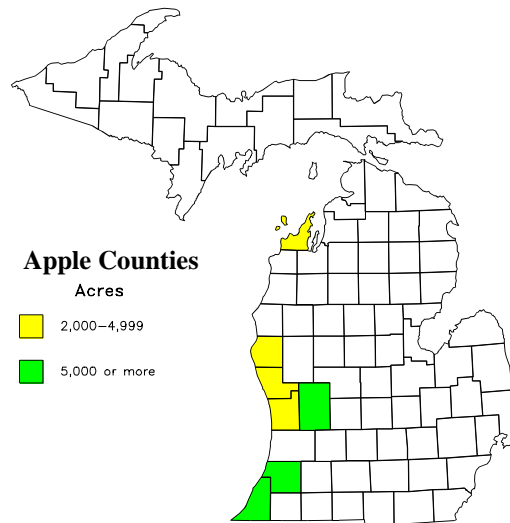
Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-9 acres	595	565	515	435	2,000	2,000	1,800	1,600
10-29 acres	390	380	315	273	6,600	6,300	5,400	4,700
30-99 acres	355	338	312	272	19,000	18,000	16,800	14,800
100-199 acres	110	118	106	73	14,600	15,600	14,300	9,800
200 or more acres	50	49	52	47	16,800	17,100	19,700	16,600
Michigan	1,500	1,450	1,300	1,100	59,000	59,000	58,000	47,500

### Apples: Trees and percent of total by variety

Variety	1986		1991		1997		2000	
	Trees	Percent	Trees	Percent	Trees	Percent	Trees	Percent
Cortland	36,000	0.6	48,100	0.7	101,000	1.1	94,500	1.1
Empire	319,000	5.5	440,000	6.4	648,000	7.2	560,000	6.5
Fuji	( <sup>1</sup> )		( <sup>1</sup> )		204,000	2.3	203,000	2.4
Gala	( <sup>1</sup> )		188,000	2.7	578,000	6.4	754,000	8.8
Ginger Gold	( <sup>1</sup> )		( <sup>1</sup> )		101,000	1.1	117,000	1.4
Golden Delicious	582,000	10.0	723,000	10.5	1,090,000	12.1	1,055,000	12.3
Honeycrisp	( <sup>1</sup> )		( <sup>1</sup> )		( <sup>1</sup> )		157,000	1.8
Ida Red	568,000	9.8	618,000	8.9	592,000	6.6	585,000	6.8
Jonagold	( <sup>1</sup> )		68,000	1.0	430,000	4.8	410,000	4.8
Jonamac	( <sup>1</sup> )		( <sup>1</sup> )		70,000	0.8	66,500	0.8
Jonathan (regular)	634,000	10.9	560,000	8.1	462,000	5.1	315,000	3.7
Jonathan (sport)	( <sup>2</sup> )		166,000	2.4	307,000	3.4	324,000	3.8
McIntosh	489,000	8.4	556,000	8.0	518,000	5.8	440,000	5.1
Mutsu	66,000	1.1	93,000	1.3	96,200	1.1	93,500	1.1
Northern Spy	332,000	5.7	364,000	5.3	395,000	4.4	320,000	3.7
Paula Red	183,000	3.2	194,000	2.8	183,000	2.0	135,000	1.6
R I Greening	74,000	1.3	68,000	1.0	65,000	0.7	37,500	0.4
Red Delicious (regular)	560,000	9.7	452,000	6.5	302,000	3.4	225,000	2.6
Red Delicious (sport)	1,077,000	18.6	1,414,000	20.5	1,785,000	19.9	1,790,000	20.9
Rome (regular)	506,000	8.7	449,000	6.5	399,000	4.4	312,000	3.6
Rome (sport)	( <sup>2</sup> )		174,000	2.5	241,000	2.7	235,000	2.7
Spartan	44,000	0.8	62,000	0.9	67,000	0.7	55,300	0.6
Winesap	74,000	1.3	72,900	1.1	72,800	0.8	38,000	0.4
Other	256,000	4.4	200,000	2.9	283,000	3.1	237,700	2.8
Michigan	5,800,000		6,910,000		8,990,000		8,560,000	

<sup>1</sup> Included in other or not yet grown.

<sup>2</sup> Sport and regular not differentiated.



## Apple Losses Due to Fireblight

A fireblight epidemic in 2000 killed 220,000 young trees outright and severely damaged 80,000 prime bearing age trees. These 300,000 trees, on 1,100 acres, were reported as killed by fireblight on the 2000 Rotational Fruit Survey. Growers in the Southwest Fruit District (Allegan, Berrien, Cass, Kalamazoo, and Van Buren Counties) lost 950 of the 1,100 acres. Trees planted before 1991 were removed mainly due to the death of the bearing surface

and the uncertainty about when the trees would bear fruit again. There were 500 acres and 80,000 trees in that category. There were 600 acres and 220,000 young trees, planted in 1991 and later, that died immediately. Those acres and trees are shown by year planted, variety, and rootstock in the following three tables. The fireblight damage reported here was as of January 2001, when data collection ended for the survey.

### Apples: Acres and trees killed outright by fireblight in 2000, by year planted

Year	Acres	Trees
1991	31	8,600
1992	45	14,700
1993	29	11,400
1994	46	17,100
1995	92	33,900
1996	125	44,600
1997	145	48,000
1998	55	26,300
1999	29	13,900
2000	3	1,500
Michigan	600	220,000

### Apples: Acres and trees killed outright by fireblight in 2000, by variety

Variety	Acres	Trees
Empire	14	3,600
Fuji	23	10,400
Gala	90	35,500
Ginger Gold	15	11,300
Golden Delicious	125	46,500
Ida Red	32	5,800
Jonagold	80	44,800
Jonathan (all)	77	14,900
Paula Red	11	2,600
Red Delicious (all)	70	23,500
Rome (all)	5	1,100
Other	58	20,000
Michigan	600	220,000

### Apples: Acres and trees killed outright by fireblight in 2000, by rootstock

Rootstock	Acres	Trees
111	45	7,000
106	85	16,000
7(VII)	210	49,000
26	60	25,000
9(IX)	165	115,000
Other	35	8,000
Michigan	600	220,000

# Blueberries

## Blueberries: Number of farms and acres by county and district

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
<b>Northwest</b>	9	10	9	11	30	30	20	25
Muskegon	35	34	31	25	1,000	1,090	1,060	920
Ottawa	130	128	125	111	4,800	5,000	5,150	5,400
Other counties	20	23	23	25	250	280	270	300
<b>West Central</b>	185	185	179	161	6,050	6,370	6,480	6,620
Allegan	90	92	79	79	2,500	2,650	2,700	2,650
Berrien	77	74	68	62	950	995	990	960
Van Buren	215	202	191	191	6,300	6,550	6,800	7,250
Other counties	6	5	6	4	50	55	60	40
<b>Southwest</b>	388	373	344	336	9,800	10,250	10,550	10,900
<b>East</b>	53	57	63	67	520	550	450	455
<b>Michigan</b>	635	625	595	575	16,400	17,200	17,500	18,000

## Blueberries: Number of farms and acres by size group

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-9 acres	315	280	270	265	1,200	1,150	1,100	1,050
10-29 acres	175	185	175	163	2,850	3,050	3,000	2,650
30-99 acres	112	130	116	113	6,200	7,100	6,300	6,000
100-199 acres	25	22	26	22	3,350	2,900	3,500	2,900
200 or more acres	8	8	8	12	2,800	3,000	3,600	5,400
Michigan	635	625	595	575	16,400	17,200	17,500	18,000

## Blueberries: Irrigated and non-irrigated acres by variety

Variety	Not irrigated	Drip (trickle)	Subterranean	Traveling gun	Overhead sprinkler	Other	Michigan
Bluecrop	1,080	830	115	655	2,100	10	4,790
Elliott	380	275	30	235	865	15	1,800
Jersey	2,580	1,030	245	1,060	2,200	15	7,130
Rubel	570	265	60	255	430	10	1,590
Other	690	400	140	395	1,055	10	2,690
Michigan	5,300	2,800	590	2,600	6,650	60	18,000

**Blueberries: Acres by district and variety**

Variety	Northwest and East	West Central	Southwest	Michigan
Berkeley	15	40	110	165
Bluecrop	85	2,165	2,540	4,790
Bluejay	3	97	170	270
Blueray	110	260	120	490
Bluetta	3	67	90	160
Brigitta	0	41	29	70
Burlington	6	84	115	205
Collins	3	28	29	60
Coville	5	14	31	50
Duke	2	123	225	350
Earliblue	19	34	32	85
Elliott	10	1,000	790	1,800
Jersey	135	1,980	5,015	7,130
Nelson	4	25	61	90
Northland	19	31	75	125
Patriot	22	10	43	75
Pemberton	8	34	23	65
Rancocas	2	8	140	150
Rubel	5	435	1,150	1,590
Spartan	14	24	32	70
Other	10	120	80	210
<b>Total</b>	<b>480</b>	<b>6,620</b>	<b>10,900</b>	<b>18,000</b>

**Blueberries: Acres with irrigation by county and district**

County and district	Total acres	Acres with overhead irrigation	Acres with other irrigation	Acres without irrigation
Muskegon	920	520	200	200
Ottawa	5,400	3,100	1,550	750
Other counties	300	150	80	70
<b>West Central</b>	<b>6,620</b>	<b>3,770</b>	<b>1,830</b>	<b>1,020</b>
Allegan	2,650	770	990	890
Berrien	960	80	345	535
Van Buren	7,250	1,850	2,800	2,600
Other counties	40		15	25
<b>Southwest</b>	<b>10,900</b>	<b>2,700</b>	<b>4,150</b>	<b>4,050</b>
<b>East &amp; Northwest</b>	<b>480</b>	<b>180</b>	<b>70</b>	<b>230</b>
<b>Michigan</b>	<b>18,000</b>	<b>6,650</b>	<b>6,050</b>	<b>5,300</b>

**Blueberries: Acres of other varieties grown**

Variety	Acres
Bluegold	11
Concord	8
Sierra	17
Stanley	47
Weymouth	47
Other	80
<b>Michigan</b>	<b>210</b>

**Blueberries: Acres by bushes per acre and year planted**

Year planted	870 or less	870.1-1,088	1,088.1-1,244	1,244.1 or more	Michigan
1970 and before	1,940	3,500	2,010	480	7,930
1971-1975	220	705	560	85	1,570
1976-1980	270	605	675	150	1,700
1981-1985	210	605	1,145	190	2,150
1986-1990	240	700	1,100	140	2,180
1991-1995	175	400	680	205	1,460
1996-2000	45	385	480	100	1,010
<b>Michigan</b>	<b>3,100</b>	<b>6,900</b>	<b>6,650</b>	<b>1,350</b>	<b>18,000</b>

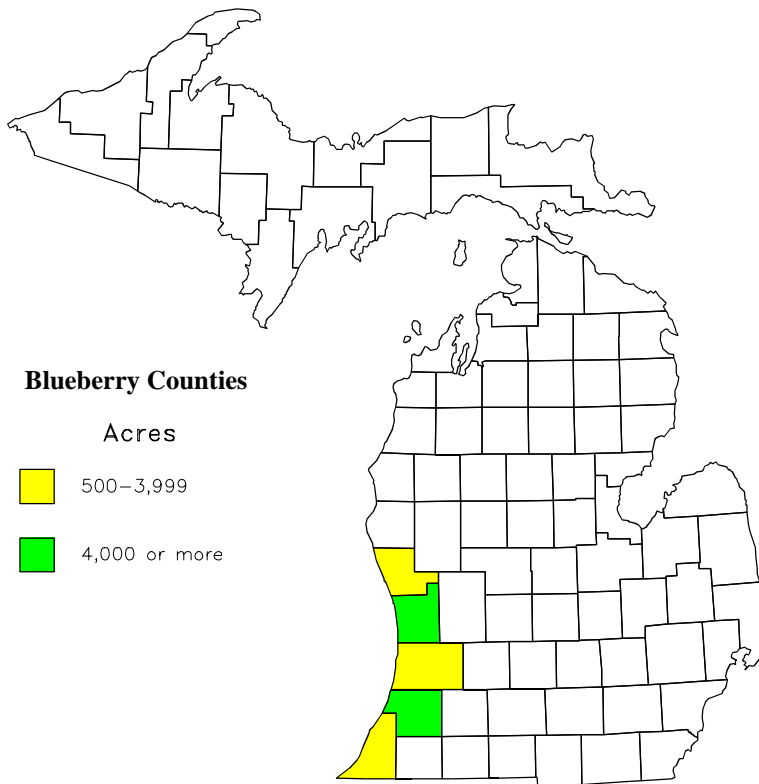
**Blueberries: Acres by variety and year planted**

Year planted	Berkeley	Bluecrop	Bluejay	Blueray	Bluetta	Brigitta	Burlington	Collins
1970 and before	102	1,395	20	260	56	0	66	21
1971-1975	37	580	11	57	17	0	28	30
1976-1980	2	485	29	33	33	0	28	0
1981-1985	4	885	33	67	32	2	33	2
1986-1990	7	860	98	39	15	0	21	6
1991-1995	4	415	65	27	6	0	17	1
1996	9	34	1	5	1	6	0	0
1997	0	32	1	0	0	6	2	0
1998	0	4	0	0	0	8	1	0
1999	0	63	12	0	0	48	9	0
2000	0	37	0	2	0	0	0	0
Michigan	165	4,790	270	490	160	70	205	60
Coville	Duke	Earliblue	Elliott	Jersey	Nelson	Northland	Patriot	
1970 and before	28	0	65	41	4,450	0	4	0
1971-1975	11	0	12	9	700	0	2	0
1976-1980	6	0	3	140	740	0	31	12
1981-1985	1	3	0	360	560	0	26	12
1986-1990	3	48	3	445	455	0	24	31
1991-1995	1	207	0	375	160	18	23	19
1996	0	15	0	85	9	21	0	0
1997	0	26	1	125	17	9	2	1
1998	0	18	0	51	18	1	10	0
1999	0	21	1	100	14	21	3	0
2000	0	12	0	69	7	20	0	0
Michigan	50	350	85	1,800	7,130	90	125	75
Pemberton	Rancocas	Rubel	Spartan	Other	Michigan			
1970 and before	59	93	1,170	0	100	7,930		
1971-1975	0	5	59	0	12	1,570		
1976-1980	5	33	96	14	10	1,700		
1981-1985	0	14	78	24	14	2,150		
1986-1990	1	5	76	20	23	2,180		
1991-1995	0	0	80	9	33	1,460		
1996	0	0	2	0	2	190		
1997	0	0	2	3	3	230		
1998	0	0	12	0	2	125		
1999	0	0	7	0	11	310		
2000	0	0	8	0	0	155		
Michigan	65	150	1,590	70	210	18,000		

**Blueberries: Acres and percent of total by variety**

Variety	1986		1991		1997		2000	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
Berkeley	180	1.3	210	1.3	170	1.0	165	0.9
Bluecrop	3,270	23.2	4,150	25.3	4,650	26.6	4,790	26.6
Bluejay	110	0.8	250	1.5	260	1.5	270	1.5
Blueray	460	3.3	550	3.4	500	2.9	490	2.7
Bluetta	160	1.1	190	1.2	165	0.9	160	0.9
Brigitta					15	0.1	70	0.4
Burlington			110	0.7	190	1.1	205	1.1
Collins			46	0.3	60	0.3	60	0.3
Coville			38	0.2	50	0.3	50	0.3
Duke			61	0.4	300	1.7	350	1.9
Earliblue			75	0.5	85	0.5	85	0.5
Elliott	530	3.8	970	5.9	1,590	9.1	1,800	10.0
Jersey	6,490	46.0	7,270	44.3	7,140	40.8	7,130	39.6
Nelson					50	0.3	90	0.5
Northland			110	0.7	115	0.7	125	0.7
Patriot	60	0.4	150	0.9	90	0.5	75	0.4
Pemberton					65	0.4	65	0.4
Rancocas	90	0.6	140	0.9	160	0.9	150	0.8
Rubel	1,340	9.5	1,440	8.8	1,570	9.0	1,590	8.8
Spartan	30	0.2	92	0.6	75	0.4	70	0.4
Other	1,380	9.8	548	3.3	200	1.1	210	1.2
Michigan	14,100		16,400		17,500		18,000	

<sup>1</sup> Included in other.



# Brambles

**Brambles: Number of farms and acres by county and district**

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
<b>Northwest</b>	20	22	31	28	30	30	45	40
<b>West Central</b>	18	18	26	22	35	40	45	40
Berrien	28	32	35	35	100	130	140	140
Other	22	23	20	15	65	70	60	30
<b>Southwest</b>	50	55	55	50	165	200	200	170
<b>East</b>	67	65	78	80	310	230	220	210
<b>Michigan</b>	155	160	190	180	540	500	510	460

**Brambles: Number of farms and acres by size group**

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-4 acres	124	126	164	159	170	170	220	225
5-9 acres	20	21	14	10	120	130	90	55
10 acres or more	11	13	12	11	250	200	200	180
Michigan	155	160	190	180	540	500	510	460

**Brambles: Acres by variety and year planted**

Year planted	Bristol	Canby	Heritage	Other	Michigan
1985 and before	0	7	40	18	65
1986-1990	1	11	34	24	70
1991-1995	6	20	37	72	135
1996	0	9	16	20	45
1997	0	6	8	26	40
1998	17	1	4	18	40
1999	8	5	1	21	35
2000	8	1	5	16	30
Michigan	40	60	145	215	460

**Brambles: Acres by district and variety**

Variety	Northwest and West Central	East	Southwest	Michigan
Bristol	1	1	38	40
Canby	13	18	29	60
Heritage	10	110	25	145
Other	56	81	78	215
<b>Total</b>	<b>80</b>	<b>210</b>	<b>170</b>	<b>460</b>

**Brambles: Acres of other varieties grown**

Variety	Acres	Variety	Acres
Algonquin	5	Lowden Purple	2
Autumn Bliss	16	Nova	8
Autumn Britten	4	Prelude	2
Black Satin	4	Redwing	5
Boyne	10	Reveille	3
Chester	4	Royalty	6
Chillowack	15	Thornfree	6
Cumberland	3	Titan	9
Encore	2	Tulameen	8
Illinois Hardy	4	Other	53
Jewel	17		
Killarney	10	Michigan	215
Latham	19		



# Cherries, sweet

**Cherries, sweet: Number of farms and acres by county and district**

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Antrim	39	34	34	27	950	880	920	810
Benzie & Charlevoix	31	22	24	23	360	350	340	290
Grand Traverse	108	98	100	89	2,060	1,750	1,850	1,800
Leelanau	151	145	150	137	3,800	3,750	4,050	4,150
Manistee	25	26	22	19	300	270	290	250
<b>Northwest</b>	<b>354</b>	<b>325</b>	<b>330</b>	<b>295</b>	<b>7,470</b>	<b>7,000</b>	<b>7,450</b>	<b>7,300</b>
Mason	27	25	24	21	500	480	490	530
Oceana	50	41	38	37	560	540	530	480
Other	45	36	28	30	140	110	100	90
<b>West Central</b>	<b>122</b>	<b>102</b>	<b>90</b>	<b>88</b>	<b>1,200</b>	<b>1,130</b>	<b>1,120</b>	<b>1,100</b>
Berrien	59	61	54	55	180	160	135	160
Van Buren	22	21	20	16	75	75	70	45
Other	22	15	14	11	55	45	45	25
<b>Southwest</b>	<b>103</b>	<b>97</b>	<b>88</b>	<b>82</b>	<b>310</b>	<b>280</b>	<b>250</b>	<b>230</b>
<b>East</b>	<b>56</b>	<b>41</b>	<b>37</b>	<b>35</b>	<b>70</b>	<b>90</b>	<b>80</b>	<b>70</b>
<b>Michigan</b>	<b>635</b>	<b>565</b>	<b>545</b>	<b>500</b>	<b>9,050</b>	<b>8,500</b>	<b>8,900</b>	<b>8,700</b>

**Cherries, sweet: Number of farms and acres by size group**

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-9 acres	357	301	280	265	1,120	980	850	800
10-29 acres	192	182	170	150	3,440	3,150	2,800	2,700
30-99 acres	80	73	85	76	3,610	3,070	3,850	3,800
100 acres or more	6	9	10	9	880	1,300	1,400	1,400
<b>Michigan</b>	<b>635</b>	<b>565</b>	<b>545</b>	<b>500</b>	<b>9,050</b>	<b>8,500</b>	<b>8,900</b>	<b>8,700</b>

**Cherries, sweet: Acres and trees by district and variety**

Variety	Northwest		West Central		Southwest and East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Cavalier	120	11,800	27	3,300	13	2,200	160	17,300
Emperor Francis	1,700	159,000	100	11,000	0	0	1,800	170,000
Gold	1,970	193,000	450	47,000	0	0	2,420	240,000
Hedelfingen	380	34,900	50	4,400	120	12,500	550	51,800
Napoleon	1,000	91,000	118	12,800	12	2,200	1,130	106,000
Rainier	200	19,300	68	8,900	7	1,100	275	29,300
Sam	390	39,200	95	12,100	30	3,700	515	55,000
Schmidt	460	38,800	55	6,400	40	3,500	555	48,700
Ulster	600	60,500	42	6,100	13	1,600	655	68,200
Van	90	8,500	20	2,200	15	1,800	125	12,500
Other	390	35,000	75	9,800	50	10,400	515	55,200
<b>Total</b>	<b>7,300</b>	<b>691,000</b>	<b>1,100</b>	<b>124,000</b>	<b>300</b>	<b>39,000</b>	<b>8,700</b>	<b>854,000</b>

**Cherries, sweet: Acres by variety and year planted**

Year planted	Cavalier	Emperor Francis	Gold	Hedelfingen	Napoleon	Rainier
1965 and before	1	110	140	125	225	2
1966-1970	0	180	120	67	96	14
1971-1975	0	130	110	44	110	14
1976-1980	24	420	480	88	320	63
1981	4	51	120	12	16	22
1982	20	39	120	14	59	20
1983	3	105	86	15	20	3
1984	17	53	61	4	16	2
1985	4	38	88	23	8	5
1986	8	54	97	3	28	9
1987	6	67	64	11	26	1
1988	10	81	99	26	9	21
1989	12	49	140	11	17	19
1990	13	46	95	16	13	9
1991	10	19	33	6	4	28
1992	4	18	5	5	17	8
1993	3	29	31	1	3	7
1994	6	50	83	8	18	2
1995	3	32	43	21	17	0
1996	3	63	88	14	33	3
1997	2	30	63	17	18	7
1998	3	45	94	6	37	6
1999	1	45	105	8	11	2
2000	3	46	55	5	9	8
Michigan	160	1,800	2,420	550	1,130	275
	Sam	Schmidt	Ulster	Van	Other	Michigan
1965 and before	14	190	3	15	100	925
1966-1970	16	72	7	3	90	665
1971-1975	17	33	6	2	24	490
1976-1980	65	62	23	7	48	1,600
1981	32	22	25	2	14	320
1982	14	4	16	0	4	310
1983	41	3	17	0	27	320
1984	22	10	32	1	2	220
1985	18	35	31	3	7	260
1986	26	6	16	0	3	250
1987	21	10	48	20	6	280
1988	15	2	52	7	8	330
1989	20	10	81	24	7	390
1990	5	1	46	2	9	255
1991	5	3	32	3	7	150
1992	6	10	20	2	10	105
1993	15	5	16	4	6	120
1994	15	1	26	1	5	215
1995	15	6	25	2	21	185
1996	23	7	19	4	33	290
1997	12	22	18	5	16	210
1998	35	17	43	15	29	330
1999	46	14	30	2	21	285
2000	17	10	23	1	18	195
Michigan	515	555	655	125	515	8,700

**Cherries, sweet: Trees by variety and year planted**

Year planted	Cavalier	Emperor Francis	Gold	Hedelfingen	Napoleon	Rainier
1965 and before	70	7,800	10,700	8,900	18,400	120
1966-1970	0	15,000	10,900	5,900	8,450	1,180
1971-1975	0	13,200	11,300	4,600	10,300	1,310
1976-1980	2,200	39,500	47,000	8,410	30,400	5,830
1981	570	4,800	13,500	1,070	1,450	2,560
1982	1,980	3,890	12,300	1,320	5,250	2,080
1983	310	9,690	8,550	1,400	1,900	330
1984	1,850	5,200	5,950	460	1,480	200
1985	350	3,440	8,300	2,510	930	400
1986	710	4,850	8,900	300	2,600	800
1987	630	6,040	5,640	950	2,600	90
1988	1,060	8,350	9,900	2,360	630	1,980
1989	1,400	5,100	14,300	1,130	1,680	2,550
1990	1,300	4,580	9,890	1,420	1,430	1,030
1991	990	1,610	3,070	500	340	3,580
1992	410	1,800	560	390	2,300	1,230
1993	410	2,820	3,070	90	320	750
1994	770	5,320	7,860	730	1,790	200
1995	300	3,220	4,550	2,290	1,950	80
1996	510	6,420	8,770	1,470	3,360	290
1997	600	3,240	6,920	1,710	2,140	1,060
1998	360	4,690	10,200	2,220	4,060	530
1999	120	4,500	11,500	1,030	1,280	220
2000	400	4,940	6,370	640	960	900
Michigan	17,300	170,000	240,000	51,800	106,000	29,300
	Sam	Schmidt	Ulster	Van	Other	Michigan
1965 and before	1,180	14,200	200	1,030	7,900	70,500
1966-1970	1,400	6,110	620	290	6,850	56,700
1971-1975	1,410	3,280	520	170	2,910	49,000
1976-1980	6,340	5,410	2,020	670	5,220	153,000
1981	3,200	2,200	2,580	170	1,300	33,400
1982	1,360	330	1,420	0	270	30,200
1983	4,030	290	1,850	0	2,250	30,600
1984	3,620	940	3,540	80	180	23,500
1985	1,710	2,780	2,850	410	620	24,300
1986	2,480	510	1,570	0	280	23,000
1987	1,970	900	4,820	1,940	520	26,100
1988	1,560	150	5,360	740	610	32,700
1989	2,130	1,020	8,550	2,590	1,250	41,700
1990	570	100	4,670	200	1,010	26,200
1991	550	310	3,190	330	530	15,000
1992	770	740	2,360	190	1,050	11,800
1993	1,670	480	1,780	390	420	12,200
1994	1,430	0	2,760	100	540	21,500
1995	1,840	550	2,520	250	2,250	19,800
1996	2,570	710	2,080	500	4,220	30,900
1997	1,570	2,420	1,910	650	1,980	24,200
1998	4,230	1,890	4,550	1,470	4,000	38,200
1999	5,530	1,610	3,930	230	5,850	35,800
2000	1,880	1,770	2,550	100	3,190	23,700
Michigan	55,000	48,700	68,200	12,500	55,200	854,000

**Cherries, sweet: Acres of other varieties grown**

Variety	Acres	Trees
Attika	18	1,800
Bing	5	500
Hardy Giant	77	6,600
Hartland	11	1,800
Kristen	20	2,100
Lapin	14	4,800
Nelson	76	7,100
Royalton	10	1,900
Somerset	17	2,100
Stella	10	900
Vega	28	2,400
Vic	3	300
Vista	28	2,600
Windsor	88	7,400
Other	110	12,900
Michigan	515	55,200

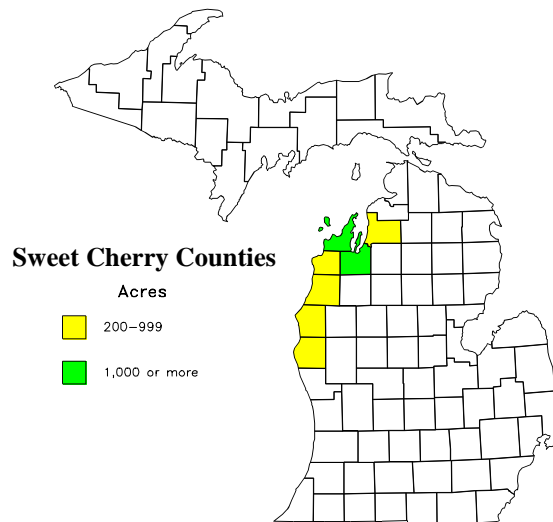
**Cherries, sweet: Acres and trees by rootstock**

Variety	Acres	Trees
Mahaleb	3,150	306,000
Mazzard	4,970	475,000
M x M2	115	12,800
M x M60	350	37,500
Gisela 5	20	8,500
Gisela 6	35	6,500
Other	60	7,700
Michigan	8,700	854,000

**Cherries, sweet: Trees and percent of total by variety**

Variety	1986		1991		1997		2000	
	Trees	Percent	Trees	Percent	Trees	Percent	Trees	Percent
Cavalier	( <sup>1</sup> )		8,800	1.0	16,500	2.0	17,300	2.0
Emperor Francis	113,000	12.3	140,000	16.5	164,000	19.5	170,000	19.9
Gold	187,000	20.3	207,000	24.4	225,000	26.7	240,000	28.1
Hedelfingen	66,000	7.2	60,700	7.2	63,000	7.5	51,800	6.1
Napoleon	247,000	26.8	165,000	19.5	124,000	14.7	106,000	12.4
Rainier	17,000	1.8	26,200	3.1	32,900	3.9	29,300	3.4
Sam	28,000	3.0	37,900	4.5	49,100	5.8	55,000	6.4
Schmidt	91,000	9.9	64,100	7.6	54,000	6.4	48,700	5.7
Ulster	( <sup>1</sup> )		35,800	4.2	53,400	6.3	68,200	8.0
Van	( <sup>1</sup> )		14,600	1.7	14,400	1.7	12,500	1.5
Windsor	54,000	5.9	24,300	2.9	9,900	1.2	7,400	0.9
Michigan	920,000		847,000		843,000		854,000	

<sup>1</sup> Not yet grown.



# Cherries, tart

**Cherries, tart: Number of farms and acres by county and district**

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Antrim	46	42	38	35	2,610	2,600	2,350	2,250
Benzie	36	29	27	26	1,260	1,300	1,250	1,200
Grand Traverse	117	115	105	97	4,700	4,600	4,450	4,100
Leelanau	172	164	151	143	7,700	7,700	7,850	8,100
Manistee	39	32	25	26	1,580	1,200	1,100	850
<b>Northwest</b>	<b>410</b>	<b>382</b>	<b>346</b>	<b>327</b>	<b>17,850</b>	<b>17,400</b>	<b>17,000</b>	<b>16,500</b>
Kent	14	16	12	8	620	630	390	280
Mason	31	30	27	24	1,960	1,920	1,860	1,800
Muskegon	11	10	8	5	620	520	320	170
Newago	10	9	9	8	430	370	270	210
Oceana	111	99	77	71	8,000	8,350	8,050	7,750
Ottawa	13	13			220	190		
Other	7	4	11	7	50	20	210	90
<b>West Central</b>	<b>197</b>	<b>181</b>	<b>144</b>	<b>123</b>	<b>11,900</b>	<b>12,000</b>	<b>11,100</b>	<b>10,300</b>
Allegan	26	22	19	11	480	420	380	280
Berrien	148	137	102	77	3,920	3,300	2,550	1,950
Cass	12	11	7	4	430	450	350	120
Kalamazoo	9	9	8	7	170	160	170	140
Van Buren	79	70	54	36	3,270	2,130	1,880	1,450
<b>Southwest</b>	<b>274</b>	<b>249</b>	<b>190</b>	<b>135</b>	<b>8,270</b>	<b>6,460</b>	<b>5,330</b>	<b>3,940</b>
<b>East</b>	<b>54</b>	<b>33</b>	<b>25</b>	<b>30</b>	<b>180</b>	<b>140</b>	<b>70</b>	<b>60</b>
<b>Michigan</b>	<b>935</b>	<b>845</b>	<b>705</b>	<b>615</b>	<b>38,200</b>	<b>36,000</b>	<b>33,500</b>	<b>30,800</b>

**Cherries, tart: Number of farms and acres by size group**

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-9 acres	240	200	140	135	970	850	600	570
10-29 acres	320	294	230	198	5,680	5,150	4,100	3,630
30-99 acres	290	270	260	205	15,300	14,400	13,600	10,700
100-199 acres	65	57	50	55	8,500	7,600	6,700	7,100
200 acres or more	20	24	25	22	7,750	8,000	8,500	8,800
Michigan	935	845	705	615	38,200	36,000	33,500	30,800

**Cherries, tart: Acres and trees by district and variety**

Variety	Northwest		West Central		Southwest and East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Balaton	590	68,300	360	40,700	15	2,000	965	111,000
Galaxy	300	33,200	200	22,300	100	12,000	600	67,500
Montmorency	15,525	1,744,000	9,740	1,067,000	3,885	421,000	29,150	3,232,000
Other	85	9,500	0	0	0	0	85	9,500
<b>Total</b>	<b>16,500</b>	<b>1,855,000</b>	<b>10,300</b>	<b>1,130,000</b>	<b>4,000</b>	<b>435,000</b>	<b>30,800</b>	<b>3,420,000</b>

**Cherries, tart: Acres by district and year planted**

**Cherries, tart: Trees by district and year planted**

Year planted	Northwest	West Central	Southwest and East	Michigan
1971 and before	585	190	70	845
1972	205	95	30	330
1973	50	25	35	110
1974	220	195	40	455
1975	445	230	45	720
1976	525	300	30	855
1977	830	425	95	1,350
1978	1,130	740	185	2,055
1979	1,350	555	170	2,075
1980	1,470	880	310	2,660
1981	1,210	570	150	1,930
1982	830	750	175	1,755
1983	575	390	115	1,080
1984	570	320	315	1,205
1985	610	440	290	1,340
1986	560	320	175	1,055
1987	430	380	190	1,000
1988	400	270	130	800
1989	295	230	85	610
1990	280	250	95	625
1991	250	410	135	795
1992	420	325	80	825
1993	415	325	110	850
1994	610	410	235	1,255
1995	475	185	150	810
1996	260	175	215	650
1997	160	175	125	460
1998	320	170	70	560
1999	440	295	85	820
2000	580	275	65	920
<b>Total</b>	<b>16,500</b>	<b>10,300</b>	<b>4,000</b>	<b>30,800</b>

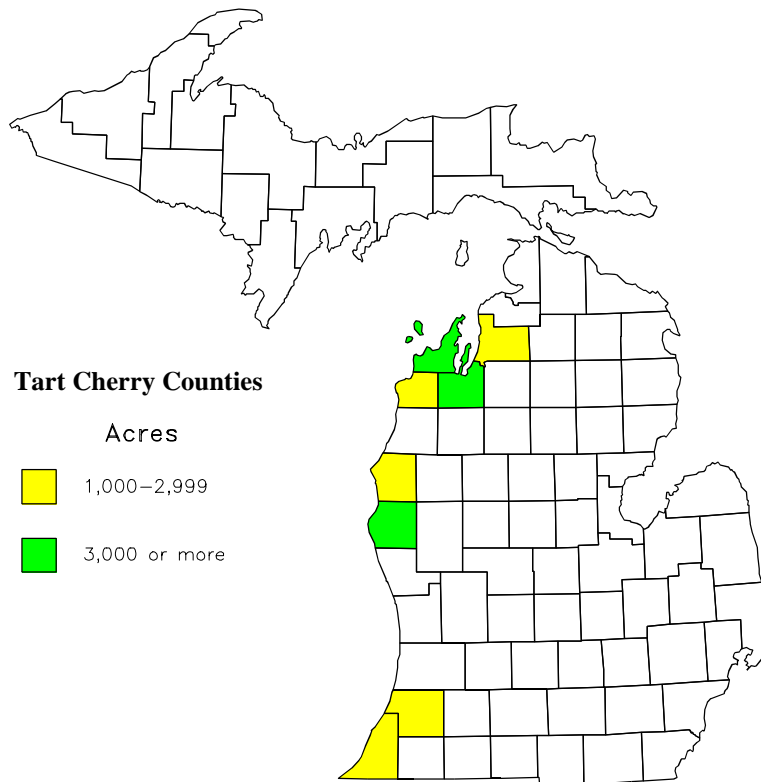
Year planted	Northwest	West Central	Southwest and East	Michigan
1971 and before	58,000	17,500	6,500	82,000
1972	20,000	9,000	3,000	32,000
1973	5,000	2,500	3,500	11,000
1974	21,500	20,500	4,000	46,000
1975	45,000	24,500	4,500	74,000
1976	54,500	32,500	3,000	90,000
1977	92,000	46,500	9,500	148,000
1978	124,000	78,000	19,000	221,000
1979	154,000	59,500	17,500	231,000
1980	168,000	96,000	33,000	297,000
1981	139,000	64,000	16,000	219,000
1982	96,000	78,500	18,500	193,000
1983	65,000	42,500	12,500	120,000
1984	65,000	33,500	33,500	132,000
1985	68,500	48,000	31,500	148,000
1986	62,500	35,500	19,000	117,000
1987	48,500	41,500	20,000	110,000
1988	44,000	31,000	14,000	89,000
1989	33,500	26,000	9,500	69,000
1990	32,500	27,000	10,500	70,000
1991	29,000	47,000	15,000	91,000
1992	48,500	36,500	9,000	94,000
1993	48,000	37,500	12,500	98,000
1994	72,000	47,000	27,000	146,000
1995	54,500	21,500	17,000	93,000
1996	30,500	20,500	25,000	76,000
1997	19,000	20,000	15,000	54,000
1998	37,000	20,000	8,000	65,000
1999	52,000	34,000	10,000	96,000
2000	68,000	32,000	8,000	108,000
<b>Total</b>	<b>1,855,000</b>	<b>1,130,000</b>	<b>435,000</b>	<b>3,420,000</b>

**Cherries, tart: Acres by year planted and variety**

Year planted	Balaton	Montmorency	Other	Total
1995 & earlier	60	26,800	530	27,390
1996	30	605	15	650
1997	15	415	30	460
1998	55	455	50	560
1999	385	395	40	820
2000	420	480	20	920
Michigan	965	29,150	685	30,800

**Cherries, tart: Acres by rootstock**

Rootstock	Acres
Mahaleb	26,300
Mazzard	3,920
M X M2	220
M X M60	160
Other	200
Michigan	30,800



# Cranberries

## Cranberries: Number of farms and acres by district

District	Farms	Acres
East, Northwest and West Central	5	185
Southwest	7	65
Michigan	12	250

## Cranberries: Acres by year planted

Year planted	Acres
1994 and before	30
1995	4
1996	32
1997	54
1998	61
1999	64
2000	5
Michigan	250

## Cranberries: Acres by variety

Variety	Acres
Ben Lear	7
Bergman	6
La Monyon	35
Pilgrim	70
Stevens	115
Other	17
Michigan	250



# Grapes

## Grapes: Number of farms and acres by county and district

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Grand Traverse			18	20			210	255
Leelanau			15	20			200	275
Other			7	3			30	20
<b>Northwest</b>	12	20	40	43	180	300	440	550
Berrien	333	315	254	245	6,100	6,100	6,200	7,000
Van Buren	150	135	122	106	4,500	4,700	4,600	4,850
Other	44	42	33	25	1,100	1,080	1,100	950
<b>Southwest</b>	527	492	409	376	11,700	11,880	11,900	12,800
<b>West Central and East</b>	36	38	51	31	120	120	160	150
<b>Michigan</b>	575	550	500	450	12,000	12,300	12,500	13,500

## Grapes: Number of farms and acres by size group

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-9 acres	279	255	228	187	1,270	1,100	1,000	850
10-29 acres	192	193	167	152	3,160	3,200	2,900	2,550
30-99 acres	86	78	82	84	4,380	4,000	4,300	4,400
100 acres or more	18	24	23	27	3,190	4,000	4,300	5,700
<b>Michigan</b>	575	550	500	450	12,000	12,300	12,500	13,500

## Grapes: Acres by variety and year planted

Year planted	Concord	Chardonnay	De Chanauc	Foch	Niagara	Pinot Noir	Seyval	Vidal Blanc	Vignoles	White Riesling	Other	Michigan
1970 and before	6,700	0	19	16	480	0	15	14	11	0	45	7,300
1971-1975	720	11	14	11	135	0	25	13	11	23	37	1,000
1976-1980	370	7	16	24	90	1	25	13	22	14	18	600
1981-1985	150	11	1	1	150	2	19	50	8	25	33	450
1986-1990	380	50	0	2	600	12	6	2	37	13	48	1,150
1991-1995	390	78	1	11	400	23	1	1	12	74	109	1,100
1996	35	7	1	1	70	3	1	2	2	9	19	150
1997	25	7	1	1	300	4	1	12	1	9	39	400
1998	90	1	1	1	320	5	5	12	0	10	15	460
1999	200	0	1	1	310	5	1	0	1	7	24	550
2000	140	3	0	1	145	10	1	1	0	6	33	340
<b>Michigan</b>	9,200	175	55	70	3,000	65	100	120	105	190	420	13,500

**Grapes: Acres by trellis and variety**

Variety	Geneva Double Curtain	4-Arm or Umbrella Kniffen	Single Wire Cordon	Other	Michigan
Concord	1,300	2,150	5,600	150	9,200
Chardonnay	5	46	24	100	175
De Chanauc	2	1	41	11	55
Foch	5	1	55	9	70
Niagara	230	1,210	1,520	40	3,000
Pinot Noir	3	14	6	42	65
Seyval	1	24	60	15	100
Vidal Blanc	0	65	48	7	120
Vignoles	13	36	39	17	105
White Riesling	5	25	17	143	190
Other	36	128	140	116	420
Michigan	1,600	3,700	7,550	650	13,500

**Grapes: Acres by district and variety**

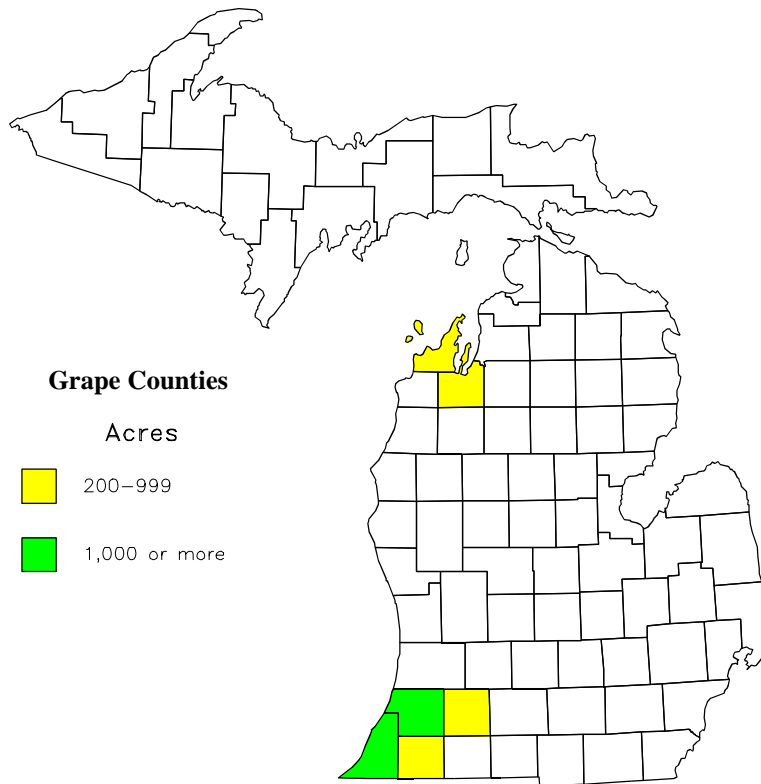
Variety	Northwest	West Central and East	Southwest	Michigan
Concord	11	14	9,175	9,200
Chardonnay	125	3	47	175
De Chanauc	14	1	40	55
Foch	10	2	58	70
Niagara	3	82	2,915	3,000
Pinot Noir	55	4	6	65
Seyval	11	4	85	100
Vidal Blanc	1	2	117	120
Vignoles	38	2	65	105
White Riesling	144	4	42	190
Other	138	32	250	420
Total	550	150	12,800	13,500

**Grapes: Acres of other varieties grown**

Variety	Acres	Variety	Acres
Aurore	26	Delaware	12
Baco Noir	12	Fredonia	21
Bianca	2	Gamay Noir	16
Cabernet Franc	29	Gewurtztraminer	23
Cabernet Sauvignon	18	Himrod	4
Catawba	5	Merlot	41
Cayuga White	24	Pinot Blanc	5
Chambourcin	30	Pinot Gris	44
Chancellor	22	Other	62
Chardonel	16		
Chelois	8	Michigan	420

**Grapes: Acres and percent of total by variety or category**

Variety or category	1986		1991		1997		2000	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
Concord	9,840	84.8	9,610	80.1	9,100	72.8	9,200	68.1
Niagara	885	7.6	1,530	12.8	2,350	18.8	3,000	22.2
French hybrids	550	4.7	600	5.0	520	4.2	570	4.2
Viniferas	115	1.0	160	1.3	435	3.5	620	4.6
Other	210	1.8	100	0.8	95	0.8	110	0.8
Michigan	11,600		12,000		12,500		13,500	



# Nectarines

**Nectarines: Number of farms and acres by district**

District	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Northwest	11	11	7	4	9	9	3	3
West Central	24	21	16	10	52	33	20	15
Southwest	64	57	39	41	200	185	105	90
East	5	4	3	3	4	3	2	2
Michigan	104	93	65	58	265	230	130	110

**Nectarines: Acres and trees by year planted**

Year planted	Acres	Trees
1986 and before	15	1,800
1987-1991	35	5,800
1992-1996	30	4,000
1997-2000	30	4,200
Michigan	110	15,800

**Nectarines: Acres and trees by variety**

Variety	Acres	Trees
Fantasia	38	5,500
Juneglo	6	800
Red Gold	19	2,300
Summer Beauty	6	900
Sunglo	21	3,600
Other	20	2,700
Michigan	110	15,800

# Peaches

**Peaches: Number of farms and acres by county and district**

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Leelanau	25	26	15	12	85	50	45	50
Manistee	21	20	17	15	190	170	125	95
Other	40	37	31	27	135	80	80	65
<b>Northwest</b>	86	83	63	54	410	300	250	210
Kent	47	31	18	17	400	220	100	85
Mason	20	17	17	14	300	250	250	330
Muskegon	10	8	7	7	250	160	90	95
Newago	10	9	5	4	280	190	75	85
Oceana	70	69	66	66	1,150	1,500	1,350	1,800
Ottawa	15	15	14	14	160	100	100	110
Other	8	6	8	8	90	30	35	35
<b>West Central</b>	180	155	135	130	2,630	2,450	2,000	2,540
Allegan	44	43	32	28	580	530	490	470
Berrien	210	187	160	133	3,360	2,620	2,400	1,800
Van Buren	62	49	45	39	920	580	550	420
Other	17	12	11	7	100	70	60	40
<b>Southwest</b>	333	291	248	207	4,960	3,800	3,500	2,730
<b>East</b>	106	71	69	69	300	250	250	220
<b>Michigan</b>	705	600	515	460	8,300	6,800	6,000	5,700

**Peaches: Number of farms and acres by size group**

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-9 acres	465	410	352	291	1,530	1,300	1,100	950
10-29 acres	161	130	111	123	2,600	2,150	1,800	2,000
30-99 acres	75	54	46	39	3,590	2,550	2,200	1,850
100-199 acres	4	6	6	7	580	800	900	900
<b>Michigan</b>	705	600	515	460	8,300	6,800	6,000	5,700

**Peaches: Acres by variety and year planted**

Year planted	Allstar	Arkansas-9	Baby Gold-5	Bellaire	Canadian Harmony	Coralstar	Cresthaven
1980 and before	0	12	23	4	7	0	7
1981-1985	0	16	79	1	34	0	16
1986-1990	0	30	250	38	85	0	35
1991-1995	6	198	440	64	44	3	32
1996	1	36	57	4	14	1	5
1997	1	64	47	7	3	1	1
1998	4	157	52	1	4	6	0
1999	12	98	24	0	2	17	0
2000	28	159	53	6	7	34	4
Michigan	52	770	1,025	125	200	62	100
Fayette	Glohaven	Glowingstar	Loring	Newhaven	PF-1	PF-12A	
1980 and before	0	9	0	6	17	0	0
1981-1985	9	27	0	20	20	0	0
1986-1990	9	41	0	66	55	0	5
1991-1995	34	21	3	14	36	11	53
1996	6	4	1	10	4	4	33
1997	1	2	1	4	1	16	24
1998	8	4	25	4	0	7	3
1999	2	2	23	1	1	2	1
2000	1	10	23	0	6	15	1
Michigan	70	120	76	125	140	55	120
PF-15A	PF-17	PF-23	Redhaven	Redskin	Other	Michigan	
1980 and before	0	0	0	155	28	32	300
1981-1985	0	0	0	230	41	47	540
1986-1990	0	0	0	345	71	170	1,200
1991-1995	32	89	63	330	22	205	1,700
1996	14	19	24	60	12	46	355
1997	15	30	22	90	4	61	395
1998	1	9	7	52	3	58	405
1999	2	1	1	12	3	51	255
2000	11	2	3	56	1	130	550
Michigan	75	150	120	1,330	185	800	5,700

**Peaches: Trees by variety and year planted**

Year planted	Allstar	Arkansas-9	Baby Gold-5	Bellaire	Canadian Harmony	Coralstar	Cresthaven
1980 and before	0	1,100	2,300	500	800	0	900
1981-1985	0	2,500	8,900	150	5,000	0	2,100
1986-1990	0	3,200	31,000	5,600	12,700	0	4,200
1991-1995	1,150	24,500	59,000	9,300	6,200	850	4,300
1996	200	5,100	7,300	600	1,950	200	700
1997	200	9,400	6,200	900	450	200	150
1998	750	24,200	7,800	150	600	1,050	0
1999	2,100	14,800	3,300	0	300	4,200	0
2000	5,400	22,200	7,200	800	1,000	5,900	550
Michigan	9,800	107,000	133,000	18,000	29,000	12,400	12,900
	Fayette	Glohaven	Glowingstar	Loring	Newhaven	PF-1	PF-12A
1980 and before	0	950	0	650	2,400	0	0
1981-1985	1,150	3,500	0	2,800	2,800	0	0
1986-1990	1,200	5,000	0	8,800	7,800	0	1,500
1991-1995	4,600	3,200	600	1,900	6,000	1,400	8,100
1996	700	700	200	1,300	600	550	6,800
1997	150	250	200	550	150	3,400	5,200
1998	1,050	550	4,900	1,200	0	1,000	400
1999	300	400	4,400	200	150	300	200
2000	150	1,550	3,900	0	700	2,450	200
Michigan	9,300	16,100	14,200	17,400	20,600	9,100	22,400
	PF-15A	PF-17	PF-23	Redhaven	Redskin	Other	Michigan
1980 and before	0	0	0	19,400	3,400	3,600	36,000
1981-1985	0	0	0	30,900	5,900	6,300	72,000
1986-1990	0	0	0	43,600	9,100	26,300	160,000
1991-1995	7,200	16,600	13,100	44,200	3,500	35,300	251,000
1996	2,600	3,400	4,700	10,500	1,700	9,200	59,000
1997	3,500	7,000	4,500	14,500	600	12,300	69,800
1998	200	1,550	1,000	11,100	400	10,500	68,400
1999	300	200	200	1,800	350	9,500	43,000
2000	1,600	450	600	9,000	150	22,000	85,800
Michigan	15,400	29,200	24,100	185,000	25,100	135,000	845,000

**Peaches: Acres and trees by district and variety**

Variety	West Central		Southwest		Northwest and East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Allstar	0	0	50	9,400	2	400	52	9,800
Arkansas-9	755	104,800	15	2,200	0	0	770	107,000
Baby Gold-5	975	126,000	47	6,600	3	400	1,025	133,000
Bellaire	40	6,600	71	9,600	14	1,800	125	18,000
Canadian Harmony	67	10,700	105	14,000	28	4,300	200	29,000
Coralstar	28	5,200	33	7,000	1	200	62	12,400
Crest Haven	28	3,800	63	8,000	9	1,100	100	12,900
Fayette	5	750	64	8,400	1	150	70	9,300
Glohaven	16	1,800	79	10,800	25	3,500	120	16,100
Glowingstar	0	0	75	14,000	1	200	76	14,200
Loring	4	400	109	15,400	12	1,600	125	17,400
Newhaven	14	2,400	105	15,200	21	3,000	140	20,600
PF-1	17	2,900	33	5,500	5	700	55	9,100
PF-12A	38	8,200	71	12,700	11	1,500	120	22,400
PF-15A	13	3,050	56	11,500	6	850	75	15,400
PF-17	26	5,300	117	23,000	7	900	150	29,200
PF-23	15	3,100	92	19,100	13	1,900	120	24,100
Redhaven	360	49,900	790	110,000	180	25,100	1,330	185,000
Redskin	1	100	172	23,600	12	1,400	185	25,100
Other	138	23,000	583	101,000	79	11,000	800	135,000
<b>Total</b>	<b>2,540</b>	<b>358,000</b>	<b>2,730</b>	<b>427,000</b>	<b>430</b>	<b>60,000</b>	<b>5,700</b>	<b>845,000</b>

**Peaches: Trees and percent of total by variety**

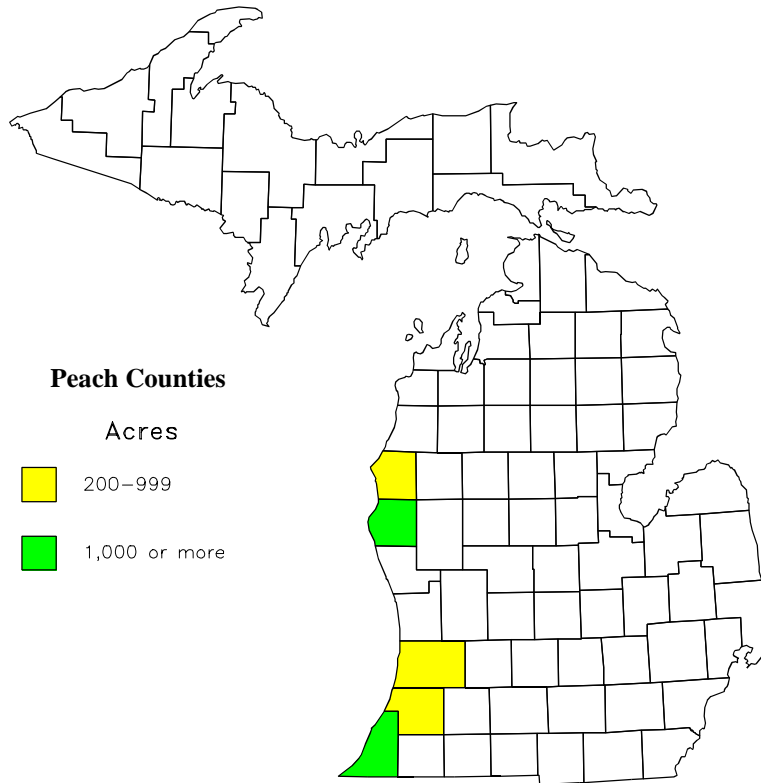
Variety	1986		1991		1997		2000	
	Trees	Percent	Trees	Percent	Trees	Percent	Trees	Percent
Allstar	( <sup>1</sup> )		( <sup>1</sup> )		( <sup>1</sup> )		9,800	1.2
Arkansas-9	( <sup>1</sup> )		( <sup>1</sup> )		32,200	3.7	107,000	12.7
Baby Gold-5	64,000	6.1	106,000	9.6	128,000	14.9	133,000	15.7
Bellaire	( <sup>1</sup> )		23,800	2.2	18,200	2.1	18,000	2.1
Canadian Harmony	76,000	7.2	99,900	9.1	48,200	5.6	29,000	3.4
Coralstar	( <sup>1</sup> )		( <sup>1</sup> )		( <sup>1</sup> )		12,400	1.5
Cresthaven	55,000	5.2	63,200	5.7	20,200	2.3	12,900	1.5
Fayette	14,000	1.3	19,300	1.8	16,800	2.0	9,300	1.1
Glohaven	61,000	5.8	50,000	4.5	23,300	2.7	16,100	1.9
Glowingstar	( <sup>1</sup> )		( <sup>1</sup> )		( <sup>1</sup> )		14,200	1.7
Loring	43,000	4.1	59,300	5.4	26,000	3.0	17,400	2.1
Newhaven	24,000	2.3	37,900	3.4	30,600	3.6	20,600	2.4
PF-1	( <sup>1</sup> )		( <sup>1</sup> )		( <sup>1</sup> )		9,100	1.1
PF-12A	( <sup>1</sup> )		( <sup>1</sup> )		24,800	2.9	22,400	2.7
PF-15A	( <sup>1</sup> )		( <sup>1</sup> )		13,800	1.6	15,400	1.8
PF-17	( <sup>1</sup> )		( <sup>1</sup> )		38,800	4.5	29,200	3.5
PF-23	( <sup>1</sup> )		( <sup>1</sup> )		28,900	3.4	24,100	2.9
Redhaven	445,000	42.4	388,000	35.3	229,000	26.6	185,000	21.9
Redskin	71,000	6.8	74,900	6.8	36,900	4.3	25,100	3.0
Other	197,000	18.8	177,700	16.2	144,300	16.8	135,000	16.0
<b>Michigan</b>	<b>1,050,000</b>		<b>1,100,000</b>		<b>860,000</b>		<b>845,000</b>	

<sup>1</sup> Included in other or not yet grown.



**Peaches: Acres and trees of other varieties grown**

Variety	Acres	Trees	Variety	Acres	Trees
Baby Gold-7	15	2,300	PF20-007	8	1,700
Biscoe	9	1,200	PF24-007	39	7,700
Blazingstar	10	2,600	PF-27A	31	7,600
Blushingstar	14	2,500	PF-5B	16	2,900
Candor	8	1,100	PF-Other	40	8,600
Encore	12	1,700	Redkist	30	3,700
Garnet Beauty	45	5,800	Redstar	18	3,700
Harbelle	8	1,100	Reliance	5	850
Harbinger	3	350	Risingstar	24	5,900
Harbrite	19	2,700	Starfire	23	4,700
Harcrest	13	2,100	Summer Serenade	10	2,100
Harrow Beauty	7	900	Suncrest	18	2,600
Harrow Diamond	20	3,300	Sweet Haven	10	2,100
Jayhaven	29	4,300	Sweet Sue	9	1,100
Jersey Dawn	18	2,200	Winkel	15	2,600
Jersey Glo	4	500	Other	165	24,700
Jim Dandee	48	7,500			
John Boy	27	4,600	Michigan	800	135,000
PF-19A	30	5,700			



# Pears

**Pears: Number of farms and acres by county and district**

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Antrim	7	7	7	7	34	30	30	40
Benzie	6	4	4	4	16	16	16	16
Grand Traverse	13	7	6	5	84	55	48	45
Leelanau	11	9	8	7	38	34	28	26
Other	8	9	8	6	18	25	18	23
<b>Northwest</b>	<b>45</b>	<b>36</b>	<b>33</b>	<b>29</b>	<b>190</b>	<b>160</b>	<b>140</b>	<b>150</b>
Mason	11	10	12	11	64	69	83	95
Oceana	21	19	17	16	210	250	250	240
Other	36	23	21	16	96	81	57	50
<b>West Central</b>	<b>68</b>	<b>52</b>	<b>50</b>	<b>43</b>	<b>370</b>	<b>400</b>	<b>390</b>	<b>385</b>
Allegan	31	25	20	15	230	170	135	62
Berrien	61	43	32	27	180	150	95	85
Van Buren	27	21	17	14	180	115	95	80
Other	8	3	3	2	10	5	5	3
<b>Southwest</b>	<b>127</b>	<b>92</b>	<b>72</b>	<b>58</b>	<b>600</b>	<b>440</b>	<b>330</b>	<b>230</b>
<b>East</b>	<b>75</b>	<b>55</b>	<b>55</b>	<b>55</b>	<b>140</b>	<b>100</b>	<b>90</b>	<b>85</b>
<b>Michigan</b>	<b>315</b>	<b>235</b>	<b>210</b>	<b>185</b>	<b>1,300</b>	<b>1,100</b>	<b>950</b>	<b>850</b>

**Pears: Number of farms and acres by size group**

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-4 acres	236	166	153	132	360	280	220	185
5-9 acres	43	37	29	30	260	230	180	195
10-19 acres	24	23	20	16	290	290	250	210
20 acres or more	12	9	8	7	390	300	300	260
<b>Michigan</b>	<b>315</b>	<b>235</b>	<b>210</b>	<b>185</b>	<b>1,300</b>	<b>1,100</b>	<b>950</b>	<b>850</b>

**Pears: Acres and variety by year planted**

Year planted	Bartlett	Bosc	Other	Michigan
1975 and before	525	35	30	590
1976-1985	47	19	22	88
1986-1995	85	14	26	125
1996	10	1	2	13
1997	6	1	2	9
1998	4	1	5	10
1999	5	1	1	7
2000	3	0	5	8
<b>Michigan</b>	<b>685</b>	<b>72</b>	<b>93</b>	<b>850</b>

**Pears: Acres and trees of other varieties grown**

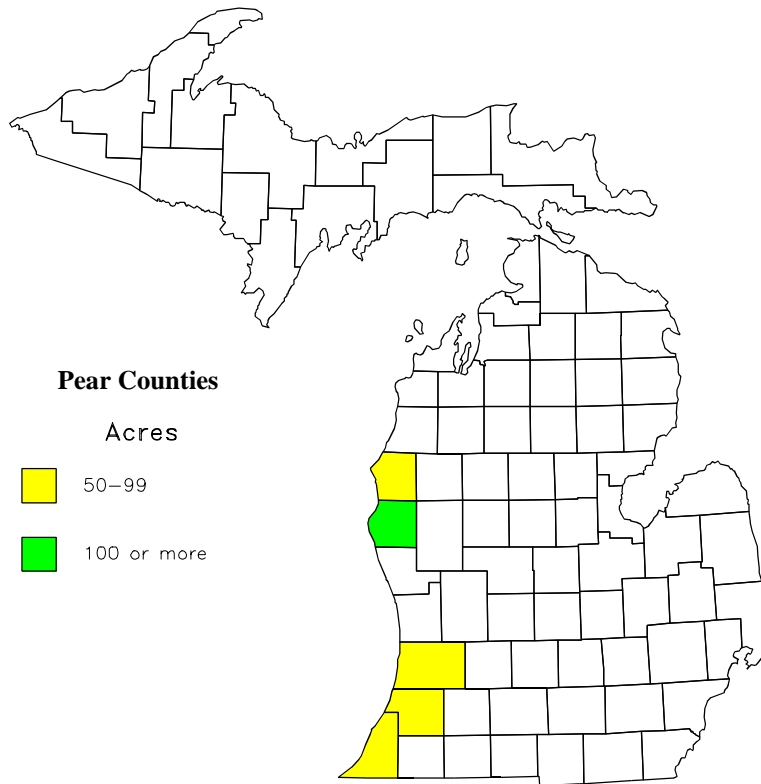
Variety	Acres	Trees
Asian	16	3,350
Clapp's	34	4,080
D'Anjou	7	770
Kieffer	2	180
Red Sensation	2	330
Spartlett	11	1,050
Other	21	2,140
<b>Michigan</b>	<b>93</b>	<b>11,900</b>

**Pears: Trees and variety by year planted**

Year planted	Bartlett	Bosc	Other	Michigan
1975 and before	57,000	3,100	3,400	63,500
1976-1985	4,900	1,900	2,100	8,900
1986-1995	9,700	1,600	3,700	15,000
1996	1,200	130	270	1,600
1997	790	140	270	1,200
1998	450	110	540	1,100
1999	560	120	120	800
2000	400	0	1,500	1,900
Michigan	75,000	7,100	11,900	94,000

**Pears: Acres and trees by district and variety**

Variety	Northwest and East		West Central		Southwest		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Bartlett	175	17,000	350	41,400	160	16,600	685	75,000
Bosc	28	2,600	12	1,100	33	3,400	73	7,100
Other	32	3,700	23	3,500	37	4,700	92	11,900
Total	235	23,300	385	46,000	230	24,700	850	94,000



# Plums

**Plums: Number of farms and acres by county and district**

County and district	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
Grand Traverse	27	18	13	9	250	160	65	60
Leelanau	36	31	22	21	330	280	230	185
Other	24	18	8	7	135	60	45	35
<b>Northwest</b>	87	67	43	37	715	500	340	280
Mason	18	17	10	7	210	180	130	80
Oceana	38	31	17	15	450	370	190	155
Other	41	31	16	17	280	150	55	65
<b>West Central</b>	97	79	43	39	940	700	375	300
Allegan	13	16	8	6	110	95	70	40
Berrien	87	73	52	43	310	220	190	150
Van Buren	42	42	29	25	400	300	220	185
Other	11	9	5	3	75	50	20	15
<b>Southwest</b>	153	140	94	77	895	665	500	390
<b>East</b>	78	39	35	27	50	35	35	30
<b>Michigan</b>	415	325	215	180	2,600	1,900	1,250	1,000

**Plums: Number of farms and acres by size group**

Size group	Farms				Acres			
	1991	1994	1997	2000	1991	1994	1997	2000
1-4 acres	247	204	135	113	400	340	225	180
5-9 acres	82	56	35	34	500	350	235	220
10-19 acres	50	41	33	23	670	510	440	310
20 acres or more	36	24	12	10	1,030	700	350	290
<b>Michigan</b>	415	325	215	180	2,600	1,900	1,250	1,000

**Plums: Acres by variety and year planted**

Year planted	Damson	Stanley	Other	Michigan
1980 and before	48	103	9	160
1981-1985	23	216	16	255
1986-1990	13	115	12	140
1991-1995	15	144	31	190
1996	9	36	16	61
1997	12	37	32	81
1998	2	13	20	35
1999	5	9	19	33
2000	3	27	15	45
<b>Michigan</b>	130	700	170	1,000

**Plums: Trees by variety and year planted**

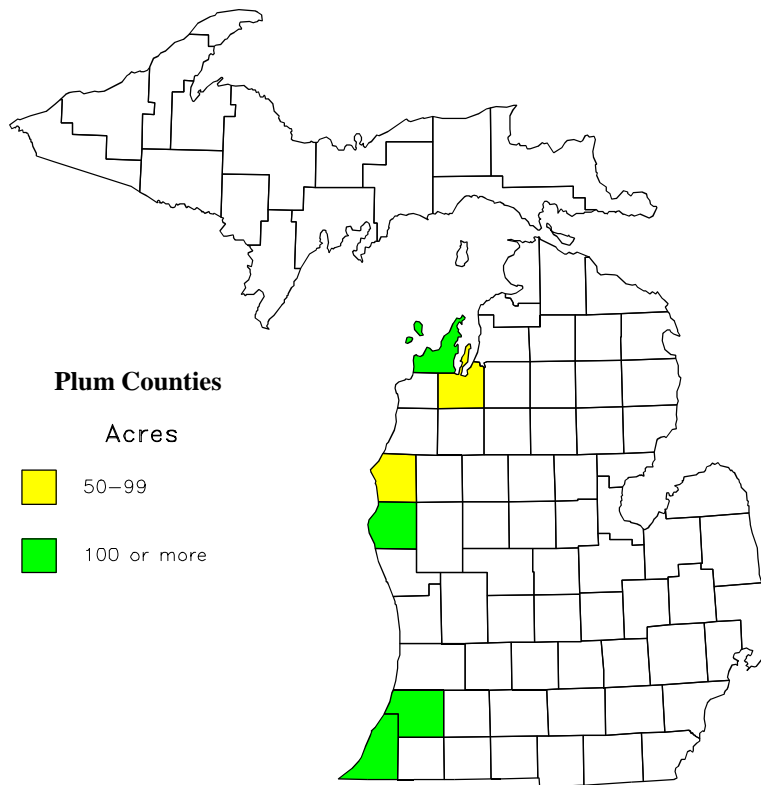
Year planted	Damson	Stanley	Other	Michigan
1980 and before	5,200	10,600	900	16,700
1981-1985	2,900	25,400	1,700	30,000
1986-1990	1,600	13,700	1,300	16,600
1991-1995	1,900	17,500	3,300	22,700
1996	1,150	4,900	1,800	7,850
1997	1,700	4,800	3,600	10,100
1998	300	1,800	2,300	4,400
1999	650	1,200	3,200	5,050
2000	400	3,800	2,400	6,600
Michigan	15,800	83,700	20,500	120,000

**Plums: Acres and trees of other varieties grown**

Variety	Acres	Trees
Bluefre	14	1,600
Burbank	2	220
Castleton	18	2,600
Dunkelburg	2	180
Italian	6	700
Methley	8	900
NY 6	12	1,900
NY 9	43	5,700
Ozark Premier	4	450
Red Heart	2	150
Santa Rosa	4	400
Shiro	7	650
Valor	9	1,050
Other	39	4,000
Michigan	170	20,500

**Plums: Acres and trees by district and variety**

Variety	Northwest and East		West Central		Southwest		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Damson	94	10,700	8	1,000	28	4,100	130	15,800
Stanley	180	18,900	215	27,000	305	37,800	700	83,700
Other	36	4,400	77	10,000	57	6,100	170	20,500
Total	310	34,000	300	38,000	390	48,000	1,000	120,000



# Strawberries

## Strawberries: Number of farms and acres by county and district

County and district	Farms			Acres		
	1995	1997	2000	1995	1997	2000
Kent	15	10	10	90	60	70
Leelanau	12	7	6	100	30	35
Manistee	12	9	7	110	65	65
Oceana	9	5	4	105	35	20
Ottawa	7	7	5	30	30	25
Other	43	36	28	95	80	100
<b>Northwest and West Central</b>	98	74	60	530	300	315
Berrien	26	23	18	250	160	80
Cass			4			50
Van Buren	11	11		80	90	
Other	15	13	10	140	130	40
<b>Southwest</b>	52	47	32	470	380	170
Bay			6			30
Houghton	8	7	11	40	30	35
Lapeer	5	5		30	30	
Lenawee	9	8	3	40	35	20
Macomb	8	6	4	65	60	30
Washtenaw	9	8	5	55	50	40
Other	91	85	79	570	515	410
<b>East</b>	130	119	108	800	720	565
<b>Michigan</b>	280	240	200	1,800	1,400	1,050

## Strawberries: Number of farms and acres by size group

Size group	Farms			Acres		
	1995	1997	2000	1995	1997	2000
1-4 acres	162	137	126	440	280	260
5-9 acres	58	52	41	360	320	255
10-19 acres	48	42	27	570	520	345
20 acres or more	12	9	6	430	280	190
Michigan	280	240	200	1,800	1,400	1,050

## Strawberries: Acres by variety and year planted

Year planted	Allstar	Earliglow	Honeoye	Jewel	Other	Michigan
1995 and before	79	22	38	22	29	190
1996	30	7	27	43	38	145
1997	23	8	25	28	51	135
1998	6	19	40	50	45	160
1999	15	6	50	47	52	170
2000	37	8	35	60	110	250
Michigan	190	70	215	250	325	1,050

**Strawberries: Acres by district and variety**

Varitey	Northwest and West Central	East	Southwest	Michigan
Allstar	44	68	78	190
Earliglow	20	47	3	70
Honeoye	84	120	11	215
Jewel	98	105	47	250
Other	69	225	31	325
Total	315	565	170	1,050

**Strawberries: Acres of other varieties grown**

Variety	Acres	Variety	Acres
Annapolis	23	Mohawk	2
Cavendish	20	Northeaster	36
Delmarvel	15	Primestar	9
Glooscap	4	Red Chief	26
Guardian	41	Seneca	19
Kent	33	Sparkle	14
Lateglow	8	Winona	12
Latestar	9	Other	28
Lester	4		
Midway	12	Michigan	325
Mira	10		

## Survey Methods

The list sampling frame maintained by the Michigan Agricultural Statistics Service was the primary source of names of commercial fruit farms. Commercial meant any operation with at least one acre of any tree fruit or one-third of an acre of any berry. Data were collected for every qualifying fruit operation.

Questionnaires and cover letters were mailed to fruit farms on the list frame in October 2000. Growers who responded to the 1997 Fruit Survey were also sent a printout of their responses to that inventory. Data collection continued until the spring of 2001.

The apple section of the survey instrument is shown at the end of this section. Farmers were asked to complete, by block (vineyard or plantation), the block name or number, the county, township and section where that block was located, variety, rootstock or trellis, year of planting, trees, acres and spacing for each variety in the block. Each line within a block represents a different variety, rootstock, year planted or plant spacing.

These detailed data were obtained for 86 percent of the farms. Twenty-nine percent were returned by mail, 47 percent were completed by telephone, and 10 percent were done by personal interview. Eleven percent refused to do the inventory, and three percent could not be contacted. Estimates of total acres of each fruit were made from various sources for the farms for which detailed block records were not available.

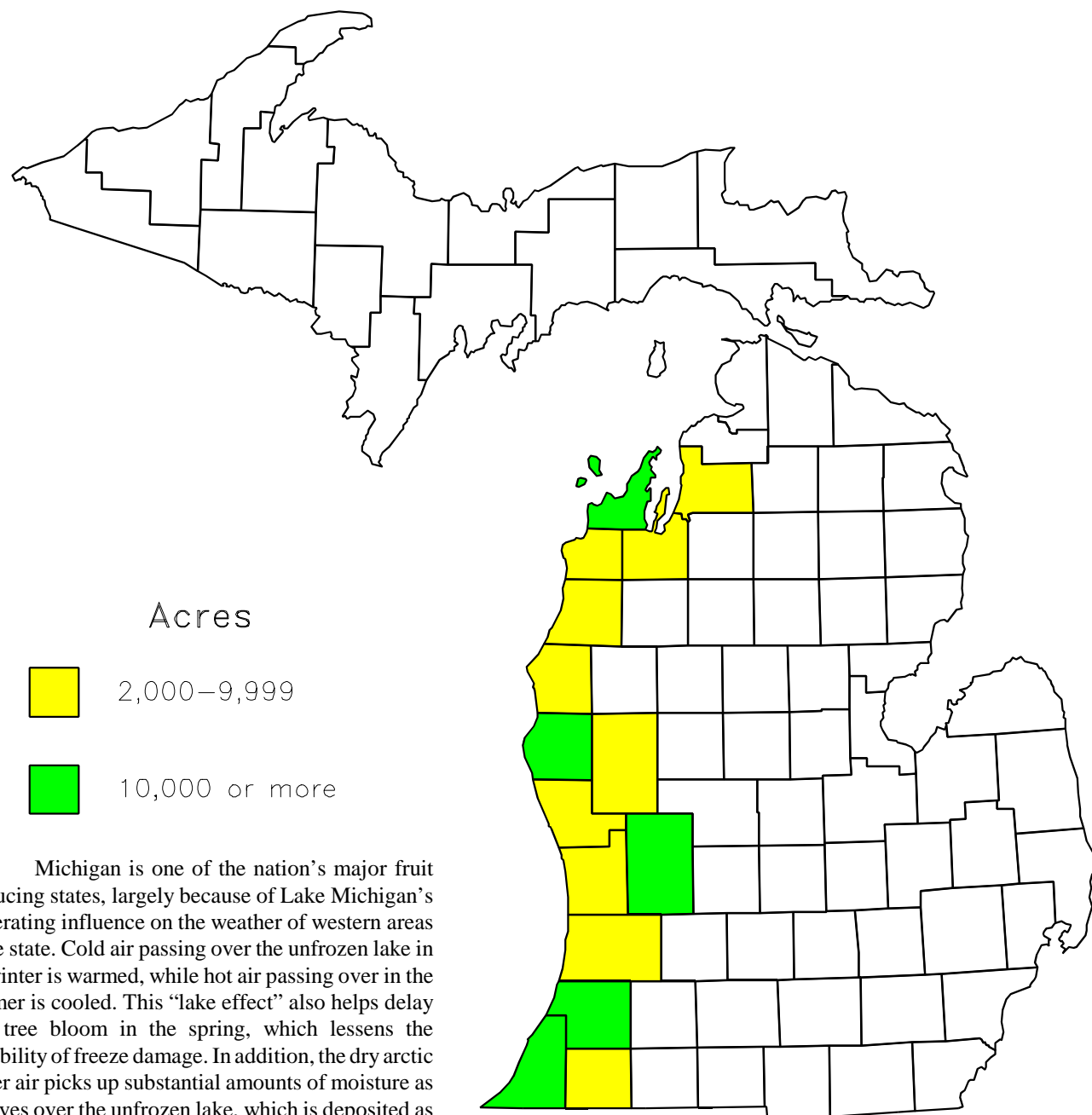
The completion rates of the detailed data varied by region and by fruit type. They were calculated by dividing the total acres with complete block data by those acres summed with estimated acres for refusals and inaccessible. These rates are shown as percentages in the accompanying table. Inverses of those completion rates were used to expand detailed data to total acreage totals by fruit and district. The higher the completion rate for a district and fruit, the more accurate are the detailed data shown in the two-way and three-way tables of this bulletin.

**Completion rates: Percent of acreage completed by fruit and district**

District	Apples	Blue-berries	Bram-bles	Cherries, sweet	Cherries, tart	Cran-berries	Grapes	Necta-rines	Peaches	Pears	Plums	Straw-berries	Total
<b>Northwest</b>	80.9	92.6	97.9	77.5	82.0	100.0	85.3	83.3	69.8	73.4	75.0	96.6	80.8
Oceana-Mason	82.1												
Grand Rapids	76.6												
<b>West Central</b>	77.8	85.5	64.4	83.0	80.9	100.0	100.0	93.3	79.7	82.9	70.4	77.2	79.3
<b>Southwest</b>	81.6	92.1	69.7	88.0	82.4	84.8	88.5	87.6	81.0	91.2	86.2	94.6	86.4
<b>East</b>	78.3	93.0	92.7	75.6	69.5	100.0	96.9	100.0	62.5	72.4	55.6	80.0	79.5
<b>Michigan</b>	79.2	89.8	81.9	78.5	81.7	96.0	88.4	88.5	79.2	86.5	77.2	84.3	82.3



# Michigan Fruit Counties, 2000



Michigan is one of the nation's major fruit producing states, largely because of Lake Michigan's moderating influence on the weather of western areas of the state. Cold air passing over the unfrozen lake in the winter is warmed, while hot air passing over in the summer is cooled. This "lake effect" also helps delay fruit tree bloom in the spring, which lessens the possibility of freeze damage. In addition, the dry arctic winter air picks up substantial amounts of moisture as it moves over the unfrozen lake, which is deposited as "lake effect" snow, providing moisture for the fruit trees as well as insulating their root systems.

## INSTRUCTIONS

Please report only for acreage of fruit you operate: **Include** land rented from others. **Exclude** land rented to others.

If you participated in the 1997 Fruit Survey, you will find enclosed a printout of the blocks you reported in 1997. Space has been left on these printouts for you to update the information. Check all "other" varieties on the block record and update them. Your updated copy of the 1997 printout should be returned with this questionnaire in which you should report on new blocks acquired or planted since 1997. If it is easier, you may use the printout as a reference only and list all of your blocks in this questionnaire. All of your fruit blocks must be accounted for between the updated printout and the questionnaire.

If you did not receive a printout from the 1997 survey, complete a line in the questionnaire for each block in your operation. Use the name or number that you use to identify each block. Each block should have its own distinctive name or number. List the county, township and section where the block is located. Include all bearing and non-bearing blocks. **Exclude** abandoned blocks.

Enter the appropriate variety and rootstock codes on the lines and complete the remaining cells for each variety in the block. Round acreage to the nearest tenth of an acre. To separate blocks, draw a line across the hash marks. **See examples below.** If you need space for additional blocks, continue on the extra pages provided in the questionnaire.

**It is important that we receive a response from all growers.** If you are not able to complete and return the questionnaire by mail, a representative of our office will contact and assist you. If there are any questions or if you need assistance in completing this inquiry, call our office at (800) 453-7501.

### Example for Apples

Use code if given. If not write in variety name.

Block (Name or number)	County (Name)	Township (Name)	Section (Number)	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres	Spacing
<i>Home Farm</i>	<i>Van Buren</i>	<i>Keeler</i>	<i>7</i>	<i>022</i>	<i>1</i>	<i>1968</i>	<i>525</i>	<i>5.0</i>	<i>20 x 20</i>
<i>Jones Place</i>	<i>Van Buren</i>	<i>Keeler</i>	<i>8</i>	<i>Sport Red Delicious</i>	<i>5</i>	<i>1982</i>	<i>530</i>	<i>4.0</i>	<i>16 x 20</i>
<i>Jones Place</i>	<i>Van Buren</i>	<i>Keeler</i>	<i>8</i>	<i>012</i>	<i>5</i>	<i>1982</i>	<i>125</i>	<i>1.0</i>	<i>16 x 20</i>

### Example for Cherries

Use code if given. If not write in variety name.

Block (Name or number)	County (Name)	Township (Name)	Section (Number)	Variety (Code or name)	Rootstock	Year planted	Trees (Number)	Acres	Spacing
<i>Home</i>	<i>Grand</i>	<i>Xavier</i>	<i>5</i>	<i>Schmidt 170</i>	<i>2</i>	<i>1981</i>	<i>2,400</i>	<i>24.0</i>	<i>20 x 20</i>
<i>Home</i>	<i>Grand</i>	<i>Xavier</i>	<i>5</i>	<i>163</i>	<i>2</i>	<i>1981</i>	<i>600</i>	<i>6.0</i>	<i>20 x 20</i>
<i>North Forty</i>	<i>Grand</i>	<i>Xavier</i>	<i>4</i>	<i>111</i>	<i>1</i>	<i>1990</i>	<i>660</i>	<i>5.5</i>	<i>18 x 20</i>



Please list bearing and non-bearing acres of **apple** trees killed by fire blight in 2000 on this operation. Use the variety and rootstock codes from the apple section.

County (Name)	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres
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SAMPLE

Your Name \_\_\_\_\_ Phone \_\_\_\_\_

For Office Use Only	999	Status Code				
Enumerator: _____	1=Int	2=Tel	3=Mail	4=Ref	5=Inac	

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## INTERNET ACCESS

Reports, data products, and services published by Michigan Agricultural Statistics Service, Michigan Department of Agriculture, and National Agricultural Statistics Service of the United States Department of Agriculture are available on the Worldwide Web. There is no charge for connecting to these Internet addresses:

- **Michigan Department of Agriculture (MDA)**

MDA home page at: <http://www.mda.state.mi.us/>

- **Michigan Agricultural Statistics Service (MASS)**

MASS home page at: <http://www.mda.state.mi.us/mass/index.html>

Under the **MASS** home page you will find up-to-date data such as Crop-Weather releases, press releases, *Agriculture Across Michigan*, and county estimates.

- **National Agricultural Statistics Service (NASS)**

NASS home page at: <http://www.usda.gov/nass/>

You can access national releases, 1997 Census of Agriculture data, and home pages of **NASS** state offices including Michigan from this web site. *Michigan Crop Weather* and national releases by free e-mail subscription are available from this site.

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## AUTOFAX ACCESS

NASSFax service is available for some reports from your fax machine. Please call 202-720-2000, using the handset attached to your fax. Respond to the voice prompts.

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## ASSISTANCE

For assistance or questions regarding Michigan agriculture, call 1-800-453-7501. Further information about NASS or its products or services can be obtained by contacting the Agricultural Statistics HOTLINE at 1-800-727-9540, 7:30 a.m. to 4:30 p.m. ET or e-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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