

Michigan Rotational Survey

# Fruit Inventory 2003-2004



Michigan Department Of Agriculture

Michigan Agricultural Statistics





## Michigan Rotational Survey

# Fruit Inventory 2003-2004

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### Michigan Agricultural Statistics

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The Michigan Department of Agriculture and Michigan Agricultural Statistics proudly present the results of the 2003 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 thirteenth 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 Michigan Agricultural Statistics. 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 surveys have continued on a rotational basis, with a turfgrass survey being added to the rotation in 2002.

Michigan fruit growers should be lauded for their cooperation and assistance in voluntarily providing the data that made this report possible. We also extend thanks 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 at (800) 453-7501.

Sincerely,

Dan Wyant  
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David D. Kleweno  
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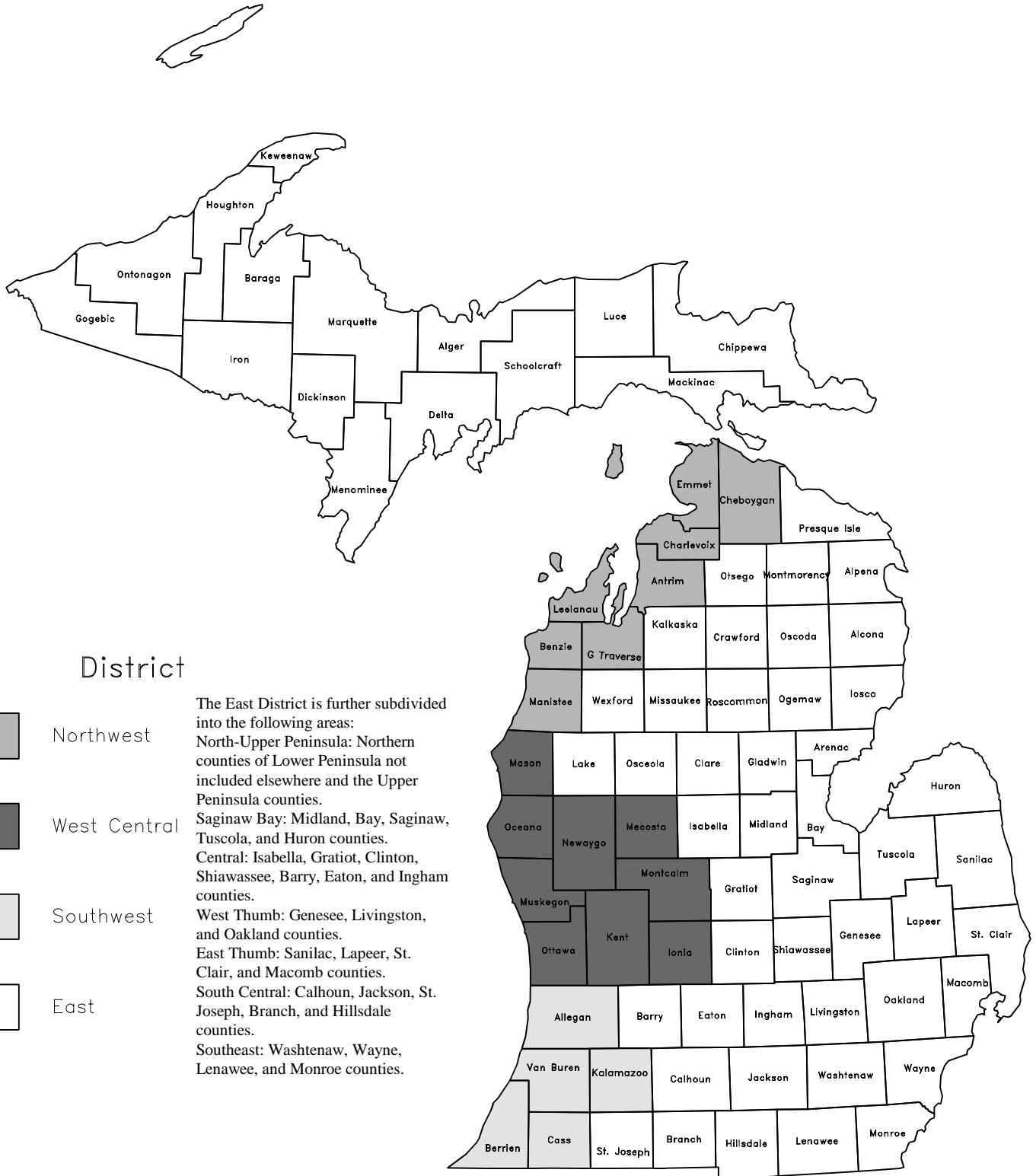
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# Michigan Fruit Districts



## All Fruit

There were 125,860 acres of fruit on commercial operations at the end of 2003. That compares with 128,810 acres at the end of 2000. A decline in apple acres from 2000 to 2003 was partially offset by increases in grape, tart cherry, and blueberry acres.

There were 2,245 commercial fruit farms at the end of 2003. A commercial fruit farm was defined as having at least one acre of any tree fruit or grapes or one half acre of any berry.

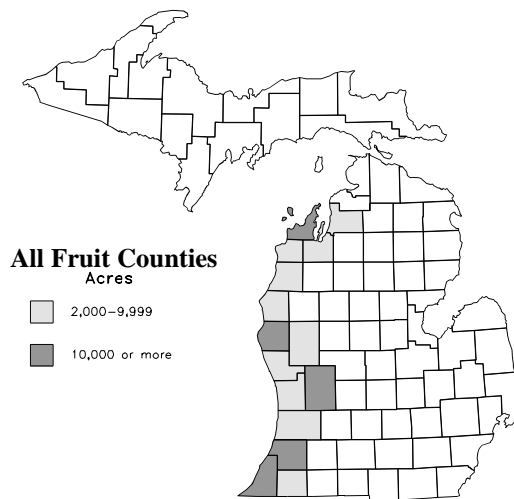
The geographic concentration of fruit varied substantially. The top five apple counties accounted for 59 percent of the total acres. The comparable figures for tart cherries and blueberries were 78 percent and 96 percent, respectively. The counties with the most acres of fruit, in order, were VanBuren, 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	52	630	2,470	840				
Benzie	31	800	1,400					
Grand Traverse	123	750	4,250	1,900		395		65
Leelanau	177	1,800	8,450	4,150		325	70	190
Manistee	35	1,050	850	250			90	
Charlevoix, Cheboygan, and Emmet	23	70	180					
<b>Northwest</b> <sup>3</sup>	441	5,100	17,600	7,500	25	740	230	290
Ionia	11	650						
Kent	102	9,300	340				120	
Mason	32	1,500	1,900	520			390	65
Montcalm, Mecosta	20	850						
Muskegon	36	2,300	190		920		120	
Newaygo	23	1,800	190				100	
Oceana	111	3,500	8,000	500			1,900	115
Ottawa	151	3,800			5,300		130	
<b>West Central</b> <sup>3</sup>	486	23,700	10,700	1,150	6,550	25	2,800	265
Allegan	111	650	290		2,750		380	
Berrien	388	4,800	1,650	180	1,220	7,500	1,700	110
Cass	29	850						
Kalamazoo	21	100						
Van Buren	337	3,800	1,500	65	7,550	5,000	320	150
<b>Southwest</b> <sup>3</sup>	886	10,200	3,640	270	11,550	13,450	2,450	310
North	89	250		8	28		5	
Saginaw Bay	56	130		10	97	7	22	
Central	63	530	6	9	38	7	6	
West Thumb	34	520	9	7	90		18	
East Thumb	64	940	14	33	71	13	90	11
South Central	46	330	10	3	26		11	3
Southeast	80	800	9	10	25		68	12
<b>East</b> <sup>3</sup>	432	3,500	60	80	375	185	220	35
<b>Michigan</b>	2,245	42,500	32,000	9,000	18,500	14,400	5,700	900

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**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	
							2003	2000 <sup>2</sup>
Antrim	45					105	4,090	3,900
Benzie						390	2,590	2,500
Grand Traverse	45					60	7,465	7,260
Leelanau	45				30	20	15,080	14,890
Manistee					60	20	2,320	2,440
Charlevoix, Cheboygan, and Emmet			150			70	470	465
<b>Northwest</b>	160	60	165	5	140		32,015	31,455
Ionia						45	695	1,005
Kent					50	150	9,960	10,880
Mason	100					60	4,535	4,565
Montcalm, Mecosta						95	945	1,050
Muskegon						35	3,565	3,505
Newaygo						155	2,245	2,150
Oceana	270				35	165	14,485	14,155
Ottawa						175	9,405	9,600
<b>West Central</b>	420	40	20	15	150		45,835	46,910
Allegan	75					180	4,325	4,570
Berrien	70	180			105	65	17,580	17,925
Cass					50	605	1,505	1,820
Kalamazoo						565	665	820
Van Buren	85				90	75	18,635	19,760
<b>Southwest</b>	235	210	60	75	260		42,710	44,895
North	7	26			106	20	450	480
Saginaw Bay	12	22			59	11	370	395
Central		35			107	7	745	835
West Thumb		34			32	15	725	775
East Thumb	24	44			82	3	1,325	1,400
South Central	9	16			56	111	575	580
Southeast	24	63			58	41	1,110	1,085
<b>East</b>	85	240	15	5	500		5,300	5,550
<b>Michigan</b>	900	550	260	100	1,050		125,860	128,810

<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			
	1994	1997	2000	2003	1994	1997	2000	2003
Antrim <sup>1</sup>	36	33	33	36	750	800	720	700
Benzie	32	30	25	17	1,250	1,250	930	800
Grand Traverse	65	66	53	45	1,100	1,100	900	750
Leelanau	78	77	66	58	2,250	2,400	2,000	1,800
Manistee	39	34	28	24	2,050	1,850	1,150	1,050
<b>Northwest</b>	250	240	205	180	7,400	7,400	5,700	5,100
Ionia	31	26	17	10	1,900	1,650	950	650
Kent	145	125	100	95	11,800	12,000	10,300	9,300
Mason	36	36	28	26	1,500	1,700	1,650	1,500
Montcalm, Mecosta	14	14	11	13	1,000	1,050	950	850
Muskegon	16	15	16	14	2,150	2,500	2,300	2,300
Newaygo	21	20	15	18	2,000	2,100	1,700	1,800
Oceana	95	86	77	73	3,600	3,700	3,550	3,500
Ottawa	57	48	46	41	4,150	4,200	4,000	3,800
<b>West Central</b>	415	370	310	290	28,100	28,900	25,400	23,700
Allegan	61	52	35	32	1,600	1,300	850	650
Berrien	247	202	165	148	7,850	7,200	5,300	4,800
Cass	18	18	19	21	1,000	1,050	1,100	850
Kalamazoo	14	11	8	6	550	450	250	100
Van Buren	110	97	78	63	6,700	7,100	5,200	3,800
<b>Southwest</b>	450	380	305	270	17,700	17,100	12,700	10,200
North	56	56	55	49	260	250	250	250
Saginaw Bay	27	27	26	23	200	180	150	130
Central	57	52	40	39	960	920	600	530
West Thumb	37	34	30	25	1,000	640	580	520
East Thumb	64	54	48	47	1,650	1,050	950	940
South Central	33	27	25	22	750	580	370	330
Southeast	61	60	56	55	980	980	800	800
<b>East</b>	335	310	280	260	5,800	4,600	3,700	3,500
<b>Michigan</b>	1,450	1,300	1,100	1,000	59,000	58,000	47,500	42,500

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

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

Year planted	Cortland	Empire	Fuji	Gala	Ginger Gold	Golden Delicious
1968 and before	22	2	2	2	0	745
1969-1973	1	18	2	3	0	295
1974-1978	19	175	0	3	0	320
1979-1983	58	685	1	15	0	510
1984	6	155	0	21	0	155
1985	9	245	0	45	0	145
1986	9	86	0	30	1	115
1987	14	105	2	89	1	140
1988	14	110	2	90	0	145
1989	28	115	8	91	3	230
1990	21	175	3	150	7	170
1991	18	110	53	145	11	150
1992	29	155	105	120	17	150
1993	50	140	70	71	7	190
1994	31	115	75	89	22	195
1995	27	20	48	155	56	235
1996	43	18	100	180	62	465
1997	16	21	16	365	30	235
1998	24	32	15	245	45	200
1999	6	1	17	105	21	135
2000	14	3	14	65	3	125
2001	2	2	8	52	1	42
2002	8	1	23	44	3	19
2003	1	1	36	145	0	69
Michigan	470	2,490	600	2,320	290	5,180
	Honeycrisp	Idared	Jonagold	Jonathan (regular)	Jonathan (sport)	McIntosh
1968 and before	0	345	0	1,245	32	470
1969-1973	0	310	4	95	90	135
1974-1978	0	750	10	155	54	350
1979-1983	0	1,000	15	265	150	525
1984	0	125	7	64	49	82
1985	0	130	8	91	31	64
1986	0	83	8	15	32	52
1987	0	66	13	33	150	130
1988	0	63	7	53	59	140
1989	0	41	18	60	110	160
1990	2	43	74	72	86	155
1991	1	41	105	53	84	61
1992	0	36	130	55	49	37
1993	3	53	150	42	51	41
1994	13	52	200	34	96	47
1995	25	51	71	25	49	44
1996	43	78	130	23	60	42
1997	95	38	120	29	31	32
1998	95	84	47	26	69	31
1999	125	100	16	34	35	42
2000	190	77	5	9	24	34
2001	59	29	6	19	18	48
2002	110	43	1	12	16	32
2003	39	12	5	41	25	86
Michigan	800	3,650	1,150	2,550	1,450	2,840

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

Year planted	Mutsu	Northern Spy	Paula Red	R I Greening	Red Delicious
1968 and before	22	580	58	185	1,080
1969-1973	52	185	155	38	470
1974-1978	40	185	160	18	760
1979-1983	63	350	100	34	2,205
1984	12	72	10	5	495
1985	55	125	18	7	450
1986	31	53	7	0	350
1987	47	90	23	1	500
1988	16	44	17	0	330
1989	48	90	4	0	380
1990	6	81	3	13	205
1991	25	77	8	0	88
1992	21	45	11	17	54
1993	27	31	5	0	82
1994	25	55	6	0	270
1995	22	20	1	4	315
1996	20	62	6	0	260
1997	7	72	1	2	345
1998	21	25	7	3	235
1999	33	25	19	0	190
2000	4	30	24	0	185
2001	2	34	3	0	105
2002	1	13	2	1	90
2003	0	6	2	2	56
Michigan	600	2,350	650	330	9,500
	Rome (regular)	Rome (sport)	Winesap	Other	Michigan
1968 and before	440	27	66	77	5,400
1969-1973	185	25	40	47	2,150
1974-1978	435	84	32	150	3,700
1979-1983	535	305	14	170	7,000
1984	140	39	6	42	1,485
1985	60	68	4	60	1,615
1986	62	62	14	30	1,040
1987	71	59	22	54	1,610
1988	10	37	2	76	1,215
1989	96	73	2	33	1,590
1990	54	110	16	39	1,485
1991	45	53	2	110	1,240
1992	44	46	5	84	1,210
1993	4	15	1	67	1,100
1994	28	54	16	67	1,490
1995	10	15	12	50	1,255
1996	22	14	12	115	1,755
1997	12	19	4	120	1,610
1998	0	10	1	25	1,240
1999	1	4	8	53	970
2000	4	6	8	36	860
2001	0	12	10	18	470
2002	1	7	3	20	450
2003	1	26	0	7	560
Michigan	2,260	1,170	300	1,550	42,500

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

Year planted	Cortland	Empire	Fuji	Gala	Ginger Gold	Golden Delicious
1968 and before	1,150	200	600	500	0	66,000
1969-1973	100	2,400	600	900	0	35,800
1974-1978	2,900	25,000	0	400	0	43,800
1979-1983	7,900	105,000	300	3,000	0	67,300
1984	900	27,100	0	4,600	0	22,500
1985	1,500	35,700	0	7,000	0	18,100
1986	1,400	15,500	0	5,800	500	18,000
1987	2,100	16,000	250	19,000	250	22,200
1988	1,850	20,400	300	24,500	0	24,600
1989	4,600	22,800	3,200	27,200	700	46,500
1990	2,600	32,700	850	48,900	3,300	41,500
1991	3,800	30,100	16,300	41,500	5,200	32,400
1992	7,500	43,100	33,700	32,100	6,900	34,500
1993	14,400	34,600	26,000	28,200	2,900	54,700
1994	10,800	33,100	30,000	35,400	8,400	44,700
1995	9,600	4,400	22,700	69,400	27,700	54,800
1996	9,400	5,100	37,300	76,200	28,000	127,000
1997	3,200	6,200	4,200	143,000	12,400	65,200
1998	3,900	13,500	6,400	96,700	18,800	53,500
1999	1,500	200	6,300	43,500	4,700	35,700
2000	3,100	600	5,600	30,400	700	33,600
2001	700	350	2,200	19,500	150	10,600
2002	1,300	350	5,600	12,300	400	3,400
2003	300	600	17,600	53,000	0	18,600
Michigan	96,500	475,000	220,000	823,000	121,000	975,000
	Honeycrisp	Idared	Jonagold	Jonathan (regular)	Jonathan (sport)	McIntosh
1968 and before	0	30,200	0	77,500	3,000	30,200
1969-1973	0	38,400	1,200	8,800	11,400	16,000
1974-1978	0	100,000	1,700	17,700	6,800	56,000
1979-1983	0	142,000	2,600	34,300	22,100	82,100
1984	0	19,000	800	12,500	6,500	12,300
1985	0	19,100	1,100	17,700	3,200	10,000
1986	0	16,400	1,400	1,700	5,300	9,300
1987	0	11,200	2,400	4,100	22,100	19,900
1988	0	10,500	1,100	9,600	11,500	24,200
1989	0	7,000	3,750	13,300	22,800	34,800
1990	350	8,500	16,700	11,000	19,300	25,500
1991	350	5,900	34,500	8,100	21,500	17,100
1992	0	6,800	41,600	10,400	8,900	5,800
1993	650	9,700	59,000	7,000	17,500	8,100
1994	3,100	9,100	77,200	9,100	20,200	11,700
1995	8,150	10,300	26,600	3,900	10,900	6,100
1996	12,900	12,500	52,100	5,200	18,900	8,400
1997	21,700	7,500	37,500	5,900	12,800	5,900
1998	26,100	17,500	14,800	5,000	12,900	6,200
1999	40,500	25,900	6,100	8,100	11,400	14,000
2000	63,600	17,400	900	3,200	8,000	10,600
2001	23,300	4,900	1,000	7,400	6,800	13,100
2002	36,300	6,200	150	3,100	7,000	8,700
2003	16,000	3,000	800	20,400	11,200	32,000
Michigan	253,000	539,000	385,000	305,000	302,000	468,000

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

Year planted	Mutsu	Northern Spy	Paula Red	R I Greening	Red Delicious
1968 and before	1,900	37,800	5,900	12,900	86,600
1969-1973	5,400	21,600	20,300	3,100	62,500
1974-1978	5,300	24,100	21,400	2,100	109,000
1979-1983	8,400	47,700	12,500	5,000	336,000
1984	1,700	11,300	1,350	750	97,000
1985	5,900	18,300	2,250	1,200	67,900
1986	4,700	7,000	1,300	0	62,100
1987	5,900	13,400	2,900	300	83,500
1988	2,700	7,900	3,300	0	68,000
1989	6,700	14,800	1,200	0	85,100
1990	950	16,600	700	1,400	39,100
1991	3,900	13,100	2,800	0	26,800
1992	4,800	5,700	1,500	2,400	13,100
1993	5,300	8,100	650	0	14,600
1994	4,600	5,700	1,200	0	88,700
1995	4,200	3,700	300	350	87,000
1996	3,800	10,800	1,100	0	66,000
1997	1,700	14,800	200	300	125,000
1998	4,100	5,100	3,200	400	70,500
1999	6,900	3,500	8,900	0	52,700
2000	600	3,900	5,900	0	54,400
2001	400	3,500	1,500	0	37,800
2002	150	2,900	1,200	100	36,900
2003	0	700	450	200	19,700
Michigan	90,000	302,000	102,000	30,500	1,790,000
	Rome (regular)	Rome (sport)	Winesap	Other	Michigan
1968 and before	32,300	3,300	4,150	4,800	399,000
1969-1973	23,300	4,000	3,700	5,500	265,000
1974-1978	52,000	16,600	3,900	20,300	509,000
1979-1983	76,700	42,200	1,800	21,100	1,018,000
1984	24,100	6,200	700	5,700	255,000
1985	8,500	10,200	450	7,900	236,000
1986	9,600	10,500	1,600	4,900	177,000
1987	10,800	8,700	3,000	8,000	256,000
1988	1,750	6,900	200	12,700	232,000
1989	14,900	11,800	350	6,500	328,000
1990	9,900	23,600	2,150	12,400	318,000
1991	7,800	10,500	350	31,000	313,000
1992	7,000	11,300	1,800	17,100	296,000
1993	550	3,800	150	20,100	316,000
1994	5,900	14,500	6,300	23,300	443,000
1995	1,400	3,100	1,700	13,700	370,000
1996	3,800	3,500	2,600	35,400	520,000
1997	2,500	3,100	700	32,200	506,000
1998	0	1,300	200	5,900	366,000
1999	200	700	1,100	14,100	286,000
2000	700	1,300	900	9,600	255,000
2001	0	5,400	2,100	6,300	147,000
2002	150	2,300	1,600	6,900	137,000
2003	150	5,200	0	2,100	202,000
Michigan	294,000	210,000	41,500	327,500	8,150,000

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

Variety	Northwest		Mason-Oceana		Grand Rapids	
	Acres	Trees	Acres	Trees	Acres	Trees
Cortland	36	5,300	100	18,000	180	42,000
Empire	195	32,400	255	38,500	1,500	307,000
Fuji	16	5,400	3	3,200	390	150,000
Gala	120	30,300	190	47,400	1,460	570,000
Ginger Gold	31	10,000	3	500	200	91,900
Golden Delicious	530	78,500	545	78,200	1,820	406,000
Honeycrisp	165	50,600	195	41,400	270	98,700
Idared	820	119,000	765	110,000	1,490	224,000
Jonagold	155	47,600	120	26,500	525	200,000
Jonamac	7	1,800	11	2,100	85	18,700
Jonathan (regular)	215	18,200	255	24,100	825	130,000
Jonathan (sport)	62	10,000	125	20,900	670	172,000
McIntosh	650	92,000	360	49,200	1,190	230,000
Mutsu	87	12,800	185	24,000	100	18,900
Northern Spy	1,000	130,000	470	52,200	530	75,200
Paula Red	13	1,700	25	5,500	335	59,000
R I Greening	100	11,300	185	15,200	0	0
Red Delicious	520	59,000	775	112,000	4,750	955,000
Rome (regular)	120	18,500	250	31,600	1,200	167,000
Rome (sport)	81	17,100	34	4,900	655	122,000
Spartan	21	3,200	5	800	180	38,500
Winesap	6	700	9	800	75	8,700
Other	150	24,600	135	18,000	270	90,400
<b>Total</b>	<b>5,100</b>	<b>780,000</b>	<b>5,000</b>	<b>725,000</b>	<b>18,700</b>	<b>4,175,000</b>
	Southwest		East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees
Cortland	68	18,800	86	12,400	470	96,500
Empire	365	65,900	175	31,200	2,490	475,000
Fuji	86	23,000	105	38,400	600	220,000
Gala	355	109,000	195	66,300	2,320	823,000
Ginger Gold	18	3,800	38	14,800	290	121,000
Golden Delicious	1,850	344,000	435	68,300	5,180	975,000
Honeycrisp	125	53,700	45	8,600	800	253,000
Idared	340	50,300	235	35,700	3,650	539,000
Jonagold	250	86,700	100	24,200	1,150	385,000
Jonamac	60	9,700	17	4,200	180	36,500
Jonathan (regular)	1,070	108,000	185	24,700	2,550	305,000
Jonathan (sport)	550	89,200	43	9,900	1,450	302,000
McIntosh	220	36,100	420	60,700	2,840	468,000
Mutsu	170	25,700	58	8,600	600	90,000
Northern Spy	150	22,100	200	22,500	2,350	302,000
Paula Red	185	24,100	92	11,700	650	102,000
R I Greening	37	3,100	8	900	330	30,500
Red Delicious	2,800	549,000	655	115,000	9,500	1,790,000
Rome (regular)	600	63,800	90	13,100	2,260	294,000
Rome (sport)	395	65,200	5	800	1,170	210,000
Spartan	41	7,800	23	3,700	270	54,000
Winesap	185	28,300	25	3,000	300	41,500
Other	280	62,700	265	41,300	1,100	237,000
<b>Total</b>	<b>10,200</b>	<b>1,850,000</b>	<b>3,500</b>	<b>620,000</b>	<b>42,500</b>	<b>8,150,000</b>

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

Year planted	Northwest	Mason-Oceana	Grand Rapids	Southwest	East	Michigan
1968 and before	970	650	1,550	1,660	570	5,400
1969-1973	375	270	785	585	135	2,150
1974-1978	340	440	1,620	890	410	3,700
1979-1983	985	735	2,990	1,670	620	7,000
1984	185	75	820	350	55	1,485
1985	260	330	650	290	85	1,615
1986	83	77	505	265	110	1,040
1987	160	185	655	455	155	1,610
1988	65	125	685	255	85	1,215
1989	175	185	840	295	95	1,590
1990	265	205	625	290	100	1,485
1991	130	150	585	270	105	1,240
1992	120	165	525	290	110	1,210
1993	67	125	580	255	73	1,100
1994	60	150	680	485	115	1,490
1995	110	95	660	260	130	1,255
1996	210	140	950	300	155	1,755
1997	185	160	935	220	110	1,610
1998	105	235	515	320	65	1,240
1999	58	150	445	275	42	970
2000	91	190	390	155	34	860
2001	16	87	180	150	37	470
2002	46	50	245	65	44	450
2003	39	26	285	150	60	560
<b>Total</b>	<b>5,100</b>	<b>5,000</b>	<b>18,700</b>	<b>10,200</b>	<b>3,500</b>	<b>42,500</b>

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

Year planted	Northwest	Mason-Oceana	Grand Rapids	Southwest	East	Michigan
1968 and before	64,900	45,600	112,000	136,000	40,500	399,000
1969-1973	41,400	29,800	102,000	75,200	16,600	265,000
1974-1978	43,200	57,700	233,000	110,000	65,100	509,000
1979-1983	145,000	92,300	468,000	221,000	91,700	1,018,000
1984	28,800	11,800	156,000	50,500	7,900	255,000
1985	37,100	42,400	108,000	36,900	11,600	236,000
1986	18,200	11,900	87,200	43,800	15,900	177,000
1987	24,000	28,600	110,000	68,600	24,800	256,000
1988	11,300	19,000	144,000	41,300	16,400	232,000
1989	30,600	26,800	198,000	53,600	19,000	328,000
1990	51,400	30,800	157,000	58,200	20,600	318,000
1991	29,700	27,000	171,000	60,400	24,900	313,000
1992	23,200	25,500	171,000	49,200	27,100	296,000
1993	12,600	34,000	172,000	77,100	20,300	316,000
1994	15,000	20,800	222,000	156,000	29,200	443,000
1995	18,200	15,000	233,000	62,000	41,800	370,000
1996	42,800	22,900	303,000	104,000	47,300	520,000
1997	39,900	38,800	325,000	78,800	23,500	506,000
1998	28,600	46,200	173,000	100,000	18,200	366,000
1999	14,900	33,700	149,000	81,200	7,200	286,000
2000	27,400	34,400	121,000	64,900	7,300	255,000
2001	7,500	14,700	59,900	58,600	6,300	147,000
2002	9,700	8,100	86,900	21,500	10,800	137,000
2003	14,600	7,200	113,000	41,200	26,000	202,000
<b>Total</b>	<b>780,000</b>	<b>725,000</b>	<b>4,175,000</b>	<b>1,850,000</b>	<b>620,000</b>	<b>8,150,000</b>



**Apples: Acres by rootstock and variety**

Variety	Seedling	111	106	7 (VII)	26	Mark
Cortland	20	93	59	81	84	34
Empire	45	560	300	725	400	76
Fuji	11	19	66	41	140	56
Gala	8	185	280	310	380	170
Ginger Gold	2	32	19	17	56	14
Golden Delicious	495	930	1,040	1,080	560	110
Honeycrisp	9	81	225	85	97	5
Idared	370	945	755	805	160	26
Jonagold	2	88	145	240	220	99
Jonamac	3	25	18	80	11	15
Jonathan (regular)	970	390	305	330	54	38
Jonathan (sport)	16	320	300	395	99	39
McIntosh	290	455	435	600	300	69
Mutsu	25	105	150	145	80	9
Northern Spy	375	205	490	475	230	125
Paula Red	17	140	180	125	47	7
R I Greening	135	13	46	48	2	0
Red Delicious	1,020	2,340	1,850	1,880	1,145	40
Rome (regular)	390	620	340	435	95	12
Rome (sport)	50	335	170	365	92	17
Spartan	6	35	32	88	36	8
Winesap	61	74	45	45	17	5
Other	80	110	150	205	195	26
Michigan	4,400	8,100	7,400	8,600	4,500	1,000
	9 (IX)	Interstem	Bud 9	Other	Unknown	Michigan
Cortland	30	2	1	1	65	470
Empire	46	24	3	1	310	2,490
Fuji	160	11	33	3	60	600
Gala	520	17	145	25	280	2,320
Ginger Gold	87	0	9	1	53	290
Golden Delicious	230	22	70	38	605	5,180
Honeycrisp	120	4	88	26	60	800
Idared	145	27	12	25	380	3,650
Jonagold	195	3	38	10	110	1,150
Jonamac	9	0	1	0	18	180
Jonathan (regular)	88	15	2	28	330	2,550
Jonathan (sport)	130	6	11	19	115	1,450
McIntosh	170	20	20	26	455	2,840
Mutsu	11	0	0	1	74	600
Northern Spy	56	18	5	11	360	2,350
Paula Red	42	8	6	2	76	650
R I Greening	0	0	0	0	86	330
Red Delicious	215	78	28	59	845	9,500
Rome (regular)	16	20	0	7	325	2,260
Rome (sport)	50	15	0	2	74	1,170
Spartan	17	0	7	0	41	270
Winesap	12	4	0	4	33	300
Other	51	6	21	11	245	1,100
Michigan	2,400	300	500	300	5,000	42,500

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

Rootstock	Northwest		Mason-Oceana		Grand Rapids	
	Acres	Trees	Acres	Trees	Acres	Trees
Seedling	710	40,000	680	51,200	1,380	100,000
111	810	112,000	1,340	188,000	3,210	492,000
106	1,490	221,000	1,030	169,000	2,250	375,000
7 (VII)	480	77,000	770	121,000	4,350	746,000
26	450	115,000	170	35,000	2,700	800,000
Mark	130	36,700	95	30,300	520	181,000
9 (IX)	40	23,500	170	41,500	1,500	690,000
Interstem	30	4,100	5	600	100	22,000
Bud 9	25	13,000	30	9,500	350	174,000
Other	35	7,700	30	4,900	90	25,000
Unknown	900	130,000	680	74,000	2,250	570,000
<b>Total</b>	<b>5,100</b>	<b>780,000</b>	<b>5,000</b>	<b>725,000</b>	<b>18,700</b>	<b>4,175,000</b>
	Southwest		East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees
Seedling	1,250	106,000	380	22,800	4,400	320,000
111	2,430	316,000	310	42,000	8,100	1,150,000
106	2,250	404,000	380	51,000	7,400	1,220,000
7 (VII)	2,260	380,000	740	106,000	8,600	1,430,000
26	610	192,000	570	158,000	4,500	1,300,000
Mark	135	47,600	120	34,400	1,000	330,000
9 (IX)	370	229,000	320	106,000	2,400	1,090,000
Interstem	75	15,600	90	22,700	300	65,000
Bud 9	90	66,800	5	1,700	500	265,000
Other	110	22,100	35	5,300	300	65,000
Unknown	620	70,900	550	70,100	5,000	915,000
<b>Total</b>	<b>10,200</b>	<b>1,850,000</b>	<b>3,500</b>	<b>620,000</b>	<b>42,500</b>	<b>8,150,000</b>

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

High density size group	1997		2000		2003	
	Farms	Acres	Farms	Acres	Farms	Acres
Less than 1 acre	16	10	23	10	27	15
1-4.9 acres	37	100	32	90	38	100
5-9.9 acres	12	85	13	95	11	85
10-24.9 acres	16	265	23	395	26	425
25-49.9 acres	14	450	14	520	19	665
50 acres or more	10	890	8	890	10	810
<b>Michigan</b>	<b>105</b>	<b>1,800</b>	<b>113</b>	<b>2,000</b>	<b>131</b>	<b>2,100</b>

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

District	1997		2000		2003	
	Farms	Acres	Farms	Acres	Farms	Acres
Northwest, Mason-Oceana, and East	21	160	25	160	35	230
Grand Rapids	43	990	48	1,180	52	1,340
Southwest	41	650	40	660	44	530
<b>Michigan</b>	<b>105</b>	<b>1,800</b>	<b>113</b>	<b>2,000</b>	<b>131</b>	<b>2,100</b>

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-9 acres	565	515	435	410	2,000	1,800	1,600	1,500
10-29 acres	380	315	273	244	6,300	5,400	4,700	4,200
30-99 acres	338	312	272	236	18,000	16,800	14,800	12,900
100-199 acres	118	106	73	76	15,600	14,300	9,800	10,300
200 or more acres	49	52	47	34	17,100	19,700	16,600	13,600
Michigan	1,450	1,300	1,100	1,000	59,000	58,000	47,500	42,500

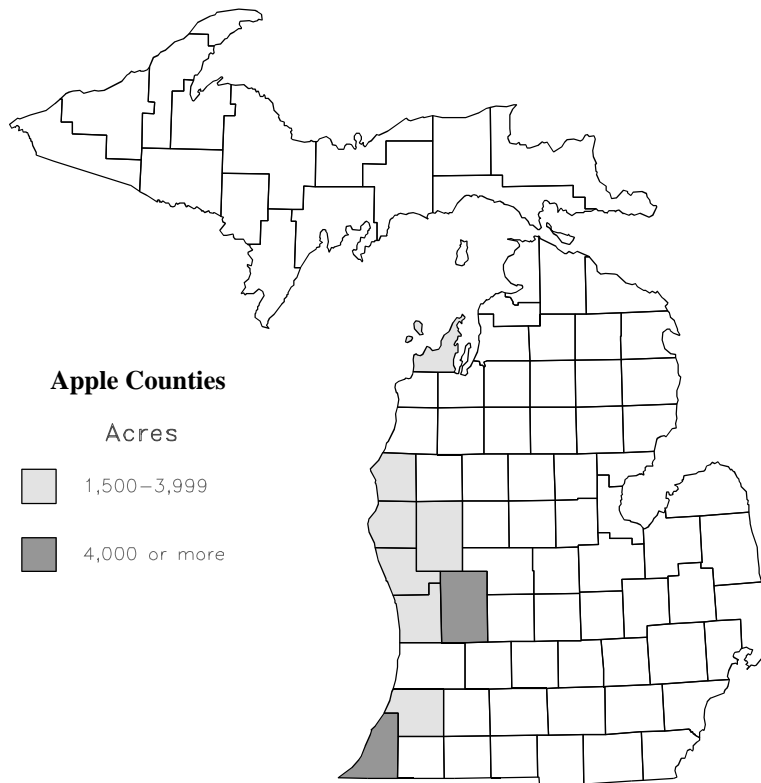
**Apples: Acres and percent of total by variety**

Variety	1994		1997		2000		2003	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
Cortland	530	0.9	600	1.0	490	1.0	470	1.1
Empire	3,390	5.7	3,480	6.0	2,940	6.2	2,490	5.9
Fuji	340	0.6	540	0.9	560	1.2	600	1.4
Gala	1,010	1.7	1,690	2.9	2,080	4.4	2,320	5.5
Ginger Gold	( <sup>1</sup> )		250	0.4	300	0.6	290	0.7
Golden Delicious	6,190	10.5	6,790	11.7	5,890	12.4	5,180	12.2
Honeycrisp	( <sup>1</sup> )		( <sup>1</sup> )		530	1.1	800	1.9
Idared	4,710	8.0	4,480	7.7	4,120	8.7	3,650	8.6
Jonagold	830	1.4	1,270	2.2	1,190	2.5	1,150	2.7
Jonamac	270	0.5	330	0.6	310	0.7	180	0.4
Jonathan (regular)	6,950	11.8	5,450	9.4	3,200	6.7	2,550	6.0
Jonathan (sport)	1,350	2.3	1,650	2.8	1,600	3.4	1,450	3.4
McIntosh	4,760	8.1	4,240	7.3	3,030	6.4	2,840	6.7
Mutsu	660	1.1	660	1.1	650	1.4	600	1.4
Northern Spy	3,670	6.2	3,590	6.2	2,550	5.4	2,350	5.5
Paula Red	1,420	2.4	1,290	2.2	900	1.9	650	1.5
R I Greening	650	1.1	690	1.2	400	0.8	330	0.8
Red Delicious	14,350	24.3	13,550	23.4	11,180	23.5	9,500	22.4
Rome (regular)	3,830	6.5	3,390	5.8	2,470	5.2	2,260	5.3
Rome (sport)	1,380	2.3	1,340	2.3	1,270	2.7	1,170	2.8
Spartan	440	0.7	410	0.7	330	0.7	270	0.6
Winesap	920	1.6	810	1.4	340	0.7	300	0.7
Other	1,350	2.3	1,500	2.6	1,170	2.5	1,100	2.6
Michigan	59,000	100	58,000	100	47,500	100	42,500	100

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

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

Variety	Acres	Trees	Variety	Acres	Trees
Akane (Prime Red)	8	1,100	Ozark Gold	22	4,900
Braeburn	150	60,000	Pristine	5	1,550
Cameo	11	4,000	Redfree	29	11,200
Connell Red	7	800	Runkel	17	3,800
Criterion	3	400	Snow	11	950
Early Blaze	3	300	Spy Gold	18	1,800
Early Gold	47	8,400	Steele Red	3	300
Elstar	12	3,800	Suncrisp	4	1,000
Enterprise	2	300	Transparent	25	2,200
Fortune	14	1,600	Tydeman Red	9	1,000
Gold Rush	19	3,900	Viking	2	250
Golden Russet	5	900	Vista Bella	2	350
Golden Supreme	68	19,500	Wagner	7	350
Granny Smith	66	9,200	Wayne	15	1,600
Grimes Golden	8	600	Wealthy	13	800
Jerseymac	36	5,400	Williams Pride	4	1,200
Jonafree	15	1,700	Winter Banana	38	7,600
Liberty	8	1,100	Wolf River	10	800
Lodi	11	1,350	Zesta	6	3,300
Macoun	7	950	Other	350	65,000
Melrose	5	950			
Mollies Delicious	5	800	Michigan	1,100	237,000



# Blueberries

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
<b>Northwest</b>	10	9	11	10	30	20	25	25
Muskegon	34	31	25	21	1,090	1,060	920	920
Ottawa	128	125	111	104	5,000	5,150	5,300	5,300
Other counties	23	23	25	27	280	270	300	330
<b>West Central</b>	185	179	161	152	6,370	6,480	6,520	6,550
Allegan	92	79	79	72	2,650	2,700	2,700	2,750
Berrien	74	68	62	61	995	990	1,160	1,220
Van Buren	202	191	191	185	6,550	6,800	7,400	7,550
Other counties	5	6	4	3	55	60	40	30
<b>Southwest</b>	373	344	336	321	10,250	10,550	11,300	11,550
<b>East</b>	57	63	67	67	550	450	455	375
<b>Michigan</b>	625	595	575	550	17,200	17,500	18,300	18,500

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-9 acres	280	270	265	255	1,150	1,100	1,050	950
10-29 acres	185	175	163	151	3,050	3,000	2,750	2,450
30-99 acres	130	116	113	103	7,100	6,300	6,100	5,400
100-199 acres	22	26	22	26	2,900	3,500	3,000	3,400
200 or more acres	8	8	12	15	3,000	3,600	5,400	6,300
Michigan	625	595	575	550	17,200	17,500	18,300	18,500

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

Variety	Not irrigated	Drip (trickle)	Subterranean	Traveling gun	Overhead sprinkler	Other	Michigan
Bluecrop	1,280	875	155	700	2,000	20	5,030
Elliott	410	285	35	300	980	20	2,030
Jersey	2,660	1,100	280	1,030	2,090	30	7,190
Rubel	600	290	75	230	450	25	1,670
Other	650	400	155	390	980	5	2,580
Michigan	5,600	2,950	700	2,650	6,500	100	18,500

**Blueberries: Acres by district and variety**

Variety	Northwest and East	West Central	Southwest	Michigan
Berkeley	11	34	100	145
Bluecrop	75	2,185	2,770	5,030
Bluejay	5	90	185	280
Blueray	90	225	125	440
Bluetta	2	66	97	165
Brigitta	0	37	28	65
Burlington	4	71	100	175
Collins	4	31	30	65
Coville	8	16	31	55
Duke	2	113	245	360
Earliblue	10	25	35	70
Elliott	5	1,090	935	2,030
Jersey	105	1,915	5,170	7,190
Nelson	1	32	57	90
Northland	22	31	72	125
Patriot	16	6	38	60
Pemberton	6	39	25	70
Rancocas	2	8	145	155
Rubel	5	445	1,210	1,660
Spartan	10	23	37	70
Other	17	68	115	200
<b>Total</b>	<b>400</b>	<b>6,550</b>	<b>11,550</b>	<b>18,500</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	190	210
Ottawa	5,300	2,740	1,700	860
Other counties	330	140	110	80
<b>West Central</b>	<b>6,550</b>	<b>3,400</b>	<b>2,000</b>	<b>1,150</b>
Allegan	2,750	830	1,070	850
Berrien	1,220	70	375	775
Van Buren	7,550	2,050	2,900	2,600
Other counties	30	0	5	25
<b>Southwest</b>	<b>11,550</b>	<b>2,950</b>	<b>4,350</b>	<b>4,250</b>
<b>East &amp; Northwest</b>	<b>400</b>	<b>150</b>	<b>50</b>	<b>200</b>
<b>Michigan</b>	<b>18,500</b>	<b>6,500</b>	<b>6,400</b>	<b>5,600</b>

**Blueberries: Acres of other varieties grown**

Variety	Acres
Bluegold	16
Concord	7
Sierra	17
Stanley	49
Weymouth	43
Other	68
<b>Michigan</b>	<b>200</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
1973 and before	2,200	3,650	2,280	450	8,580
1974-1978	280	770	540	110	1,700
1979-1983	230	670	1,220	160	2,280
1984-1988	260	700	1,140	150	2,250
1989-1993	170	550	900	160	1,780
1994-1998	90	370	500	110	1,070
1999-2003	70	340	320	110	840
<b>Michigan</b>	<b>3,300</b>	<b>7,050</b>	<b>6,900</b>	<b>1,250</b>	<b>18,500</b>

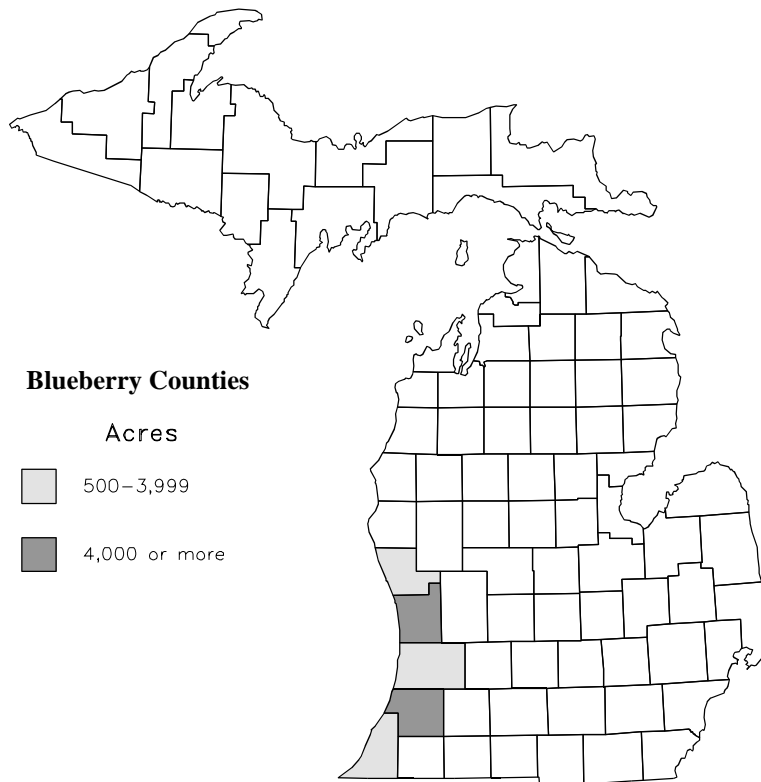
**Blueberries: Acres by variety and year planted**

Year planted	Berkeley	Bluecrop	Bluejay	Blueray	Bluetta	Brigitta	Burlington	Collins
1973 and before	120	1,580	30	265	78	0	75	43
1974-1978	8	620	3	26	27	0	8	15
1979-1983	1	780	51	26	14	0	35	1
1984-1988	6	970	72	59	32	2	25	5
1989-1993	1	670	94	36	13	0	12	0
1994-1998	9	230	19	22	1	13	11	0
1999	0	60	8	1	0	47	9	0
2000	0	55	3	2	0	1	0	0
2001	0	12	0	1	0	1	0	0
2002	0	13	0	1	0	1	0	0
2003	0	40	0	1	0	0	0	1
Michigan	145	5,030	280	440	165	65	175	65
	Coville	Duke	Earliblue	Elliott	Jersey	Nelson	Northland	Patriot
1973 and before	37	0	44	51	4,770	0	3	0
1974-1978	7	0	12	57	730	0	27	3
1979-1983	4	2	2	300	850	0	27	9
1984-1988	4	13	3	430	500	0	9	18
1989-1993	3	125	5	430	190	7	29	22
1994-1998	0	160	2	395	94	43	23	7
1999	0	18	0	98	21	17	3	0
2000	0	9	2	63	8	17	1	0
2001	0	2	0	49	4	6	0	0
2002	0	18	0	72	19	0	0	0
2003	0	13	0	85	4	0	3	1
Michigan	55	360	70	2,030	7,190	90	125	60
	Pemberton	Rancocas	Rubel	Spartan	Other	Michigan		
1973 and before	58	100	1,210	6	110	8,580		
1974-1978	4	33	110	1	9	1,700		
1979-1983	3	10	120	31	14	2,280		
1984-1988	3	12	57	10	20	2,250		
1989-1993	2	0	110	17	14	1,780		
1994-1998	0	0	25	4	12	1,070		
1999	0	0	7	0	11	300		
2000	0	0	9	0	0	170		
2001	0	0	3	0	2	80		
2002	0	0	1	0	5	130		
2003	0	0	8	1	3	160		
Michigan	70	155	1,660	70	200	18,500		

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

Variety	1991		1997		2000		2003	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
Berkeley	210	1.3	170	1	160	0.9	145	0.8
Bluecrop	4,150	25.3	4,650	26.6	4,950	27	5,030	27.2
Bluejay	250	1.5	260	1.5	280	1.5	280	1.5
Blueray	550	3.4	500	2.9	480	2.6	440	2.4
Bluetta	190	1.2	165	0.9	165	0.9	165	0.9
Brigitta	( <sup>1</sup> )		15	0.1	60	0.3	65	0.4
Burlington	110	0.7	190	1.1	205	1.1	175	0.9
Collins	46	0.3	65	0.4	65	0.4	65	0.4
Coville	38	0.2	55	0.3	55	0.3	55	0.3
Duke	61	0.4	300	1.7	340	1.9	360	1.9
Earliblue	75	0.5	85	0.5	85	0.5	70	0.4
Elliott	970	5.9	1,570	9	1,830	10	2,030	11
Jersey	7,270	44.3	7,140	40.8	7,190	39.3	7,190	38.9
Nelson	( <sup>1</sup> )		50	0.3	85	0.5	90	0.5
Northland	110	0.7	115	0.7	120	0.7	125	0.7
Patriot	150	0.9	85	0.5	75	0.4	60	0.3
Pemberton	( <sup>1</sup> )		70	0.4	70	0.4	70	0.4
Rancocas	140	0.9	155	0.9	155	0.8	155	0.8
Rubel	1,440	8.8	1,590	9.1	1,650	9	1,660	9
Spartan	92	0.6	70	0.4	70	0.4	70	0.4
Other	548	3.3	200	1.1	210	1.1	200	1.1
Michigan	16,400		17,500		18,300		18,500	

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





# Brambles

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
<b>Northwest</b>	22	31	30	30	30	45	50	60
<b>West Central</b>	18	26	24	25	40	45	40	40
Berrien	32	35	37	37	130	140	160	180
Other counties	23	20	16	16	70	60	30	30
<b>Southwest</b>	55	55	53	53	200	200	190	210
<b>East</b>	65	78	83	82	230	220	220	240
<b>Michigan</b>	160	190	190	190	500	510	500	550

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-4 acres	126	164	166	163	170	220	240	250
5-9 acres	21	14	12	16	130	90	70	100
10 acres or more	13	12	12	11	200	200	190	200
<b>Michigan</b>	160	190	190	190	500	510	500	550

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

Year planted	Bristol	Canby	Heritage	Jewel	Other	Michigan
1988 and before	0	12	61	0	24	96
1989-1993	2	14	29	0	23	68
1994-1998	0	23	68	8	89	187
1999	8	3	1	1	22	35
2000	8	0	7	2	13	29
2001	0	1	1	40	24	66
2002	22	3	6	0	25	57
2003	0	0	1	4	6	11
<b>Michigan</b>	40	55	175	55	225	550

**Brambles: Acres by district and variety**

Variety	Northwest and West Central	East	Southwest	Michigan
Bristol	0	1	39	40
Canby	13	20	22	55
Heritage	17	135	23	175
Jewel	2	1	52	55
Other	68	83	74	225
<b>Total</b>	100	240	210	550

**Brambles: Acres of other varieties grown**

Variety	Acres	Variety	Acres
Algonquin	4	Lauren	2
Autumn Bliss	20	Nova	12
Autumn Britten	7	Polana	8
Black Satin	4	Prelude	3
Boyne	10	Redwing	3
Caroline	14	Reveille	2
Chester	5	Royalty	5
Chillowack	15	Thornfree	5
Cumberland	2	Titan	11
Encore	4	Tulameen	5
Illinois Hardy	2	Other	50
K-81-6	5		
Killarney	15	Michigan	225
Latham	12		

# Cherries, sweet

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
Antrim	34	34	30	32	880	920	860	840
Benzie, Charlevoix	22	24	25	28	350	340	340	360
Grand Traverse	98	100	94	92	1,750	1,850	1,850	1,900
Leelanau	145	150	137	133	3,750	4,050	4,200	4,150
Manistee	26	22	19	17	270	290	250	250
<b>Northwest</b>	<b>325</b>	<b>330</b>	<b>305</b>	<b>302</b>	<b>7,000</b>	<b>7,450</b>	<b>7,500</b>	<b>7,500</b>
Mason	25	24	21	18	480	490	530	520
Oceana	41	38	37	33	540	530	510	500
Other counties	36	28	32	39	110	100	110	130
<b>West Central</b>	<b>102</b>	<b>90</b>	<b>90</b>	<b>90</b>	<b>1,130</b>	<b>1,120</b>	<b>1,150</b>	<b>1,150</b>
Berrien	61	54	58	60	160	135	170	180
Van Buren	21	20	21	23	75	70	65	65
Other counties	15	14	11	10	45	45	35	25
<b>Southwest</b>	<b>97</b>	<b>88</b>	<b>90</b>	<b>93</b>	<b>280</b>	<b>250</b>	<b>270</b>	<b>270</b>
<b>East</b>	<b>41</b>	<b>37</b>	<b>40</b>	<b>45</b>	<b>90</b>	<b>80</b>	<b>80</b>	<b>80</b>
<b>Michigan</b>	<b>565</b>	<b>545</b>	<b>525</b>	<b>530</b>	<b>8,500</b>	<b>8,900</b>	<b>9,000</b>	<b>9,000</b>

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-9 acres	301	280	280	300	980	850	800	850
10-29 acres	182	170	155	140	3,150	2,800	2,700	2,600
30-99 acres	73	85	80	80	3,070	3,850	3,900	3,950
100 acres or more	9	10	10	10	1,300	1,400	1,600	1,600
Michigan	565	545	525	530	8,500	8,900	9,000	9,000

**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	147	15,400	65	13,200	18	3,100	230	31,700
Emperor Francis	1,750	164,000	95	10,600	5	400	1,850	175,000
Gold	2,090	204,000	450	47,000	0	0	2,540	251,000
Hedelfingen	400	37,000	55	5,400	140	13,900	595	56,300
Napoleon	960	88,200	115	12,400	10	2,400	1,085	103,000
Rainier	190	18,100	65	8,800	10	1,500	265	28,400
Sam	435	45,000	105	14,300	35	4,400	575	63,700
Schmidt	375	31,700	51	6,100	39	3,500	465	41,300
Ulster	715	71,400	53	7,600	12	1,600	780	80,600
Van	83	7,500	19	2,300	18	2,100	120	11,900
Other	355	32,700	77	11,300	63	13,100	495	57,100
<b>Total</b>	<b>7,500</b>	<b>715,000</b>	<b>1,150</b>	<b>139,000</b>	<b>350</b>	<b>46,000</b>	<b>9,000</b>	<b>900,000</b>

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

Year planted	Cavalier	Emperor Francis	Gold	Hedelfingen	Napoleon	Rainier
1968 and before	1	185	190	140	165	6
1969-1973	0	135	69	63	130	17
1974-1978	26	200	315	70	140	22
1979-1983	43	430	635	97	300	79
1984	19	65	70	3	18	2
1985	7	50	72	25	27	5
1986	7	37	96	4	30	9
1987	6	71	85	12	29	1
1988	18	93	105	26	16	24
1989	13	45	140	10	16	19
1990	18	64	90	9	19	9
1991	11	20	26	16	5	29
1992	8	14	27	12	16	9
1993	3	27	31	1	3	7
1994	8	43	81	9	19	0
1995	4	62	44	19	16	2
1996	4	80	89	16	31	3
1997	3	42	61	23	20	10
1998	3	48	115	11	36	5
1999	1	51	125	17	16	2
2000	4	56	42	6	20	2
2001	2	4	1	0	2	1
2002	19	15	19	5	11	2
2003	2	13	12	1	0	0
Michigan	230	1,850	2,540	595	1,085	265
	Sam	Schmidt	Ulster	Van	Other	Michigan
1968 and before	25	150	8	12	88	970
1969-1973	14	36	5	2	39	510
1974-1978	35	35	7	1	39	890
1979-1983	125	53	93	4	81	1,940
1984	33	10	35	1	4	260
1985	41	40	37	3	8	315
1986	21	6	17	0	3	230
1987	23	10	65	19	4	325
1988	25	2	69	8	9	395
1989	20	11	85	25	6	390
1990	3	1	49	15	8	285
1991	5	5	34	3	6	160
1992	5	11	20	1	12	135
1993	17	5	11	4	6	115
1994	11	0	23	1	10	205
1995	18	17	23	2	23	230
1996	25	7	21	4	30	310
1997	17	15	29	5	20	245
1998	32	17	55	5	28	355
1999	52	19	33	1	23	340
2000	19	10	18	1	17	195
2001	4	1	14	1	15	45
2002	5	4	17	2	6	105
2003	0	0	12	0	10	50
Michigan	575	465	780	120	495	9,000

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

Year planted	Cavalier	Emperor Francis	Gold	Hedelfingen	Napoleon	Rainier
1968 and before	70	14,200	15,500	9,800	12,500	500
1969-1973	0	12,000	6,300	5,800	12,700	1,500
1974-1978	2,430	19,000	33,200	6,900	14,000	2,100
1979-1983	5,100	41,900	64,200	9,300	27,700	8,000
1984	2,100	6,200	6,600	300	1,600	250
1985	600	4,600	6,900	2,900	2,800	400
1986	600	3,300	9,000	370	2,900	800
1987	700	6,400	7,500	1,000	2,900	100
1988	2,100	9,400	10,300	2,500	1,500	2,300
1989	1,400	4,600	13,800	1,050	1,500	2,300
1990	1,700	6,600	8,600	900	1,800	1,050
1991	1,050	1,600	2,600	1,550	400	3,700
1992	750	1,400	2,700	1,100	2,200	1,350
1993	350	2,600	3,200	80	300	780
1994	950	4,600	6,400	800	1,700	0
1995	400	5,300	4,800	2,000	1,800	220
1996	600	8,200	8,900	1,550	3,300	300
1997	1,600	4,100	6,800	2,350	2,400	1,350
1998	250	4,900	12,300	2,700	3,900	450
1999	100	5,100	13,300	1,850	1,800	200
2000	450	5,800	4,900	700	2,000	250
2001	300	400	100	0	250	200
2002	7,900	1,500	1,850	700	1,050	300
2003	200	1,300	1,250	100	0	0
Michigan	31,700	175,000	251,000	56,300	103,000	28,400
	Sam	Schmidt	Ulster	Van	Other	Michigan
1968 and before	2,150	10,800	700	880	6,900	74,000
1969-1973	1,150	3,200	400	150	3,600	46,800
1974-1978	3,400	3,000	650	120	5,100	89,900
1979-1983	12,300	5,200	9,000	400	6,900	190,000
1984	4,900	950	3,800	60	340	27,100
1985	4,200	3,300	3,200	370	730	30,000
1986	2,200	500	1,600	0	330	21,600
1987	2,300	950	6,600	1,000	350	29,800
1988	2,800	170	6,900	800	630	39,400
1989	2,300	1,000	9,000	2,600	1,250	40,800
1990	350	80	4,800	1,500	820	28,200
1991	600	450	3,500	350	500	16,300
1992	600	850	2,300	150	1,100	14,500
1993	1,900	500	1,150	250	490	11,600
1994	1,100	0	2,450	100	1,000	19,100
1995	2,200	1,700	2,400	250	2,430	23,500
1996	3,000	700	2,250	500	4,000	33,300
1997	2,200	1,800	3,000	600	2,800	29,000
1998	3,900	1,800	5,500	700	3,900	40,300
1999	6,300	2,100	4,100	100	6,550	41,500
2000	2,700	1,700	2,050	120	2,530	23,200
2001	550	150	2,200	600	1,750	6,500
2002	600	400	1,750	300	850	17,200
2003	0	0	1,300	0	2,250	6,400
Michigan	63,700	41,300	80,600	11,900	57,100	900,000

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

Variety	Acres	Trees
Attika	23	2,300
Bing	10	900
Chelen	2	550
Hardy Giant	59	4,950
Hartland	11	1,850
Kristen	22	2,350
Lapin	17	5,700
Nelson	86	7,900
Regina	2	650
Royalton	12	2,050
Somerset	21	2,600
Stella	14	1,050
Vega	12	1,100
Vic	4	300
Vista	26	2,450
Windsor	79	6,900
Other	95	13,500
Michigan	495	57,100

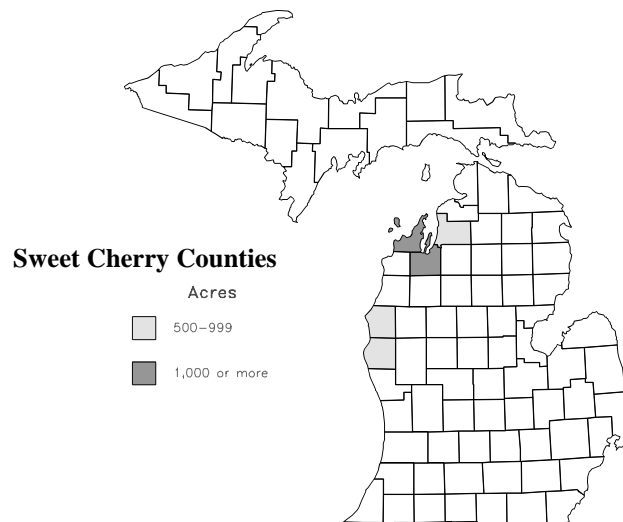
**Cherries, sweet: Acres and trees by rootstock**

Variety	Acres	Trees
Mahaleb	2,900	281,000
Mazzard	5,400	518,000
M x M2	110	11,800
M x M60	405	43,800
Gisela 5	55	17,000
Gisela 6	80	21,600
Other	50	6,800
Michigan	9,000	900,000

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

Variety	1986		1991		1997		2003	
	Trees	Percent	Trees	Percent	Trees	Percent	Trees	Percent
Cavalier	( <sup>1</sup> )		8,800	1	16,500	2	31,700	3.5
Emperor Francis	113,000	12.3	140,000	16.5	164,000	19.5	175,000	19.4
Gold	187,000	20.3	207,000	24.4	225,000	26.7	251,000	27.9
Hedelfingen	66,000	7.2	60,700	7.2	63,000	7.5	56,300	6.3
Napoleon	247,000	26.8	165,000	19.5	124,000	14.7	103,000	11.4
Rainier	17,000	1.8	26,200	3.1	32,900	3.9	28,400	3.2
Sam	28,000	3	37,900	4.5	49,100	5.8	63,700	7.1
Schmidt	91,000	9.9	64,100	7.6	54,000	6.4	41,300	4.6
Ulster	( <sup>1</sup> )		35,800	4.2	53,400	6.3	80,600	9
Van	( <sup>1</sup> )		14,600	1.7	14,400	1.7	11,900	1.3
Other	171,000	18.6	86,900	10.3	46,700	5.5	57,100	6.3
Michigan	920,000		847,000		843,000		900,000	

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



# Cherries, tart

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
Antrim <sup>1</sup>	42	38	35	38	2,600	2,350	2,450	2,650
Benzie	29	27	26	21	1,300	1,250	1,200	1,400
Grand Traverse	115	105	97	92	4,600	4,450	4,100	4,250
Leelanau	164	151	143	131	7,700	7,850	8,100	8,450
Manistee	32	25	26	23	1,200	1,100	850	850
<b>Northwest</b>	<b>382</b>	<b>346</b>	<b>327</b>	<b>305</b>	<b>17,400</b>	<b>17,000</b>	<b>16,700</b>	<b>17,600</b>
Kent	16	12	8	12	630	390	280	340
Mason	30	27	24	22	1,920	1,860	1,800	1,900
Muskegon	10	8	5	6	520	320	170	190
Newaygo	9	9	8	8	370	270	210	190
Oceana	99	77	71	67	8,350	8,050	7,750	8,000
Ottawa	13				190			
Other counties	4	11	7	11	20	210	90	80
<b>West Central</b>	<b>181</b>	<b>144</b>	<b>123</b>	<b>126</b>	<b>12,000</b>	<b>11,100</b>	<b>10,300</b>	<b>10,700</b>
Allegan	22	19	11	8	420	380	280	290
Berrien	137	102	77	70	3,300	2,550	1,950	1,650
Cass	11	7	4		450	350	120	
Kalamazoo	9	8	7		160	170	140	
Van Buren	70	54	36	39	2,130	1,880	1,450	1,500
Other counties				10				200
<b>Southwest</b>	<b>249</b>	<b>190</b>	<b>135</b>	<b>127</b>	<b>6,460</b>	<b>5,330</b>	<b>3,940</b>	<b>3,640</b>
<b>East</b>	<b>33</b>	<b>25</b>	<b>30</b>	<b>42</b>	<b>140</b>	<b>70</b>	<b>60</b>	<b>60</b>
<b>Michigan</b>	<b>845</b>	<b>705</b>	<b>615</b>	<b>600</b>	<b>36,000</b>	<b>33,500</b>	<b>31,000</b>	<b>32,000</b>

<sup>1</sup> Includes Charlevoix and Emmett.

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-9 acres	200	140	135	170	850	600	570	650
10-29 acres	294	230	198	175	5,150	4,100	3,630	3,200
30-99 acres	270	260	205	170	14,400	13,600	10,700	9,150
100-199 acres	57	50	55	54	7,600	6,700	7,200	7,500
200 acres or more	24	25	22	31	8,000	8,500	8,900	11,500
Michigan	845	705	615	600	36,000	33,500	31,000	32,000

**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	650	75,000	405	45,700	35	4,300	1,090	125,000
Galaxy	310	34,000	260	29,300	60	6,700	630	70,000
Montmorency	16,560	1,912,000	10,035	1,120,000	3,605	394,000	30,200	3,426,000
Other	80	9,000	0	0	0	0	80	9,000
<b>Total</b>	<b>17,600</b>	<b>2,030,000</b>	<b>10,700</b>	<b>1,195,000</b>	<b>3,700</b>	<b>405,000</b>	<b>32,000</b>	<b>3,630,000</b>

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

Year planted	Northwest	West Central	Southwest and East	Michigan
1974 and before	780	405	115	1,300
1975	325	120	15	460
1976	500	310	20	830
1977	770	415	45	1,230
1978	1,100	635	85	1,820
1979	1,300	465	85	1,850
1980	1,450	775	135	2,360
1981	1,150	625	145	1,920
1982	705	615	130	1,450
1983	630	420	100	1,150
1984	520	320	240	1,080
1985	660	480	220	1,360
1986	560	370	170	1,100
1987	470	370	180	1,020
1988	380	245	125	750
1989	310	250	50	610
1990	355	270	95	720
1991	330	460	120	910
1992	450	290	90	830
1993	380	320	110	810
1994	600	420	190	1,210
1995	490	240	150	880
1996	255	175	190	620
1997	185	190	135	510
1998	315	220	75	610
1999	470	335	75	880
2000	650	300	100	1,050
2001	460	220	150	830
2002	630	210	180	1,020
2003	420	230	180	830
<b>Total</b>	<b>17,600</b>	<b>10,700</b>	<b>3,700</b>	<b>32,000</b>

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

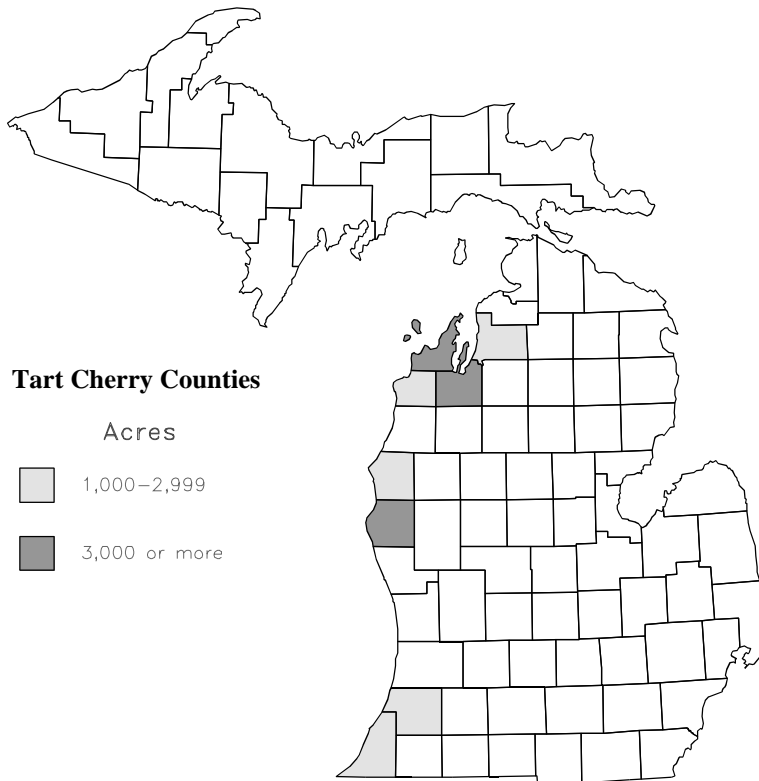
Year planted	Northwest	West Central	Southwest and East	Michigan
1974 and before	81,000	41,000	11,000	133,000
1975	34,200	13,300	1,500	49,000
1976	55,000	32,800	2,200	90,000
1977	84,400	44,700	4,900	134,000
1978	122,000	69,100	8,900	200,000
1979	151,000	50,200	8,800	210,000
1980	165,000	85,900	14,100	265,000
1981	136,000	75,100	15,900	227,000
1982	81,000	66,800	14,200	162,000
1983	77,500	45,600	10,900	134,000
1984	59,500	33,600	23,900	117,000
1985	75,500	52,800	24,700	153,000
1986	62,300	41,000	18,700	122,000
1987	52,500	39,200	18,300	110,000
1988	41,000	28,800	13,200	83,000
1989	36,500	28,200	5,300	70,000
1990	42,500	29,100	11,400	83,000
1991	38,500	53,500	13,000	105,000
1992	52,000	32,900	10,100	95,000
1993	44,500	38,000	12,500	95,000
1994	72,000	49,000	21,000	142,000
1995	56,500	28,200	16,300	101,000
1996	29,500	20,500	22,000	72,000
1997	21,800	21,900	14,300	58,000
1998	37,500	23,800	8,700	70,000
1999	55,900	38,400	8,700	103,000
2000	76,400	35,500	12,100	124,000
2001	57,500	27,000	17,500	102,000
2002	79,100	23,600	20,300	123,000
2003	51,900	25,500	20,600	98,000
<b>Total</b>	<b>2,030,000</b>	<b>1,195,000</b>	<b>405,000</b>	<b>3,630,000</b>

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

Year planted	Balaton	Montmorency	Other	Total
1998 & before	155	26,650	585	27,390
1999	440	415	25	880
2000	360	665	25	1,050
2001	45	780	5	830
2002	55	950	15	1,020
2003	35	740	55	830
Michigan	1,090	30,200	710	32,000

**Cherries, tart: Acres by rootstock**

Rootstock	Acres
Mahaleb	27,400
Mazzard	3,800
M X M2	250
M X M60	400
Other	150
Michigan	32,000





# Cranberries

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

District	Farms	Acres
<b>East, Northwest, and West Central</b>	7	200
<b>Southwest</b>	5	60
<b>Michigan</b>	12	260

**Cranberries: Acres by year planted**

Year planted	Acres
1994 and before	50
1995	4
1996	30
1997	51
1998	59
1999	62
2000	4
<b>Michigan</b>	<b>260</b>

**Cranberries: Acres by variety**

Variety	Acres
Ben Lear	7
Bergman	6
La Monyon	35
Native	12
Pilgrim	68
Searles	13
Stevens	105
Other	5
Unknown	9
<b>Michigan</b>	<b>260</b>

# Grapes

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
Grand Traverse		18	20	34		210	255	395
Leelanau		15	20	26		200	275	325
Other counties		7	3	7		30	20	20
<b>Northwest</b>	20	40	43	67	300	440	550	740
Berrien	315	254	245	230	6,100	6,200	7,000	7,500
Van Buren	135	122	106	102	4,700	4,600	4,850	5,000
Other counties	42	33	25	26	1,080	1,100	950	950
<b>Southwest</b>	492	409	376	358	11,880	11,900	12,800	13,450
<b>West Central and East</b>	38	51	31	40	120	160	150	210
<b>Michigan</b>	550	500	450	465	12,300	12,500	13,500	14,400

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-9 acres	255	228	187	200	1,100	1,000	850	850
10-29 acres	193	167	152	150	3,200	2,900	2,550	2,550
30-99 acres	78	82	84	82	4,000	4,300	4,400	4,100
100 acres or more	24	23	27	33	4,000	4,300	5,700	6,900
Michigan	550	500	450	465	12,300	12,500	13,500	14,400

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

Year planted	Cabernet Franc	Concord	Chardonnay	Foch	Niagara	Pinot Gris	Pinot Noir	Seyval	Vidal Blanc	Vignoles	White Reisling	Other	Michigan
1973 and before	0	7,080	0	22	570	0	0	19	17	16	0	76	7,800
1974-1978	0	440	8	11	120	0	0	30	6	10	25	20	670
1979-1983	0	240	11	0	95	0	3	14	47	11	13	16	450
1984-1988	0	155	18	2	355	1	1	4	4	16	17	27	600
1989-1993	8	525	90	11	680	22	23	4	5	23	44	55	1,490
1994-1998	12	400	43	3	800	30	25	7	25	9	63	83	1,500
1999	8	305	1	1	460	2	4	0	0	2	12	35	830
2000	9	230	6	0	250	5	14	1	0	0	15	40	570
2001	9	80	6	0	85	7	11	1	0	1	5	35	240
2002	18	55	4	5	17	7	17	0	1	6	13	27	170
2003	1	20	3	0	18	6	7	0	0	1	8	16	80
Michigan	65	9,530	190	55	3,450	80	105	80	105	95	215	430	14,400

**Grapes: Acres and vines by principal use**

Principal use	Acres	Vines
Juice	12,850	7,170,000
Table	50	32,000
Wine	1,500	1,163,000
Michigan	14,400	8,365,000

**Grapes: Acres by district and variety**

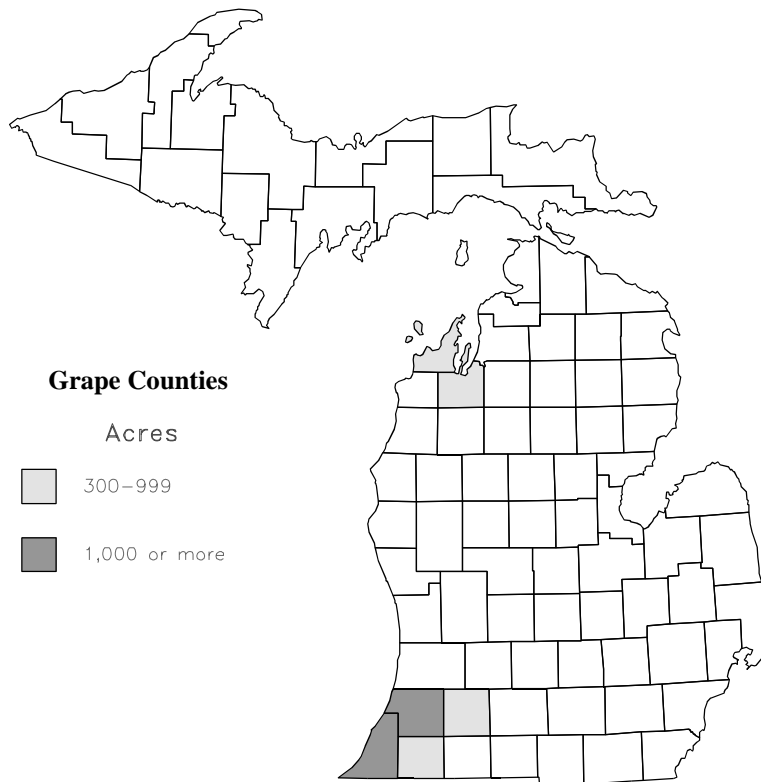
Variety	Northwest	East & West Central	Southwest	Michigan
Cabernet Franc	45	1	19	65
Concord	1	54	9,475	9,530
Chardonnay	147	3	40	190
Foch	8	3	44	55
Niagara	1	99	3,350	3,450
Pinot Gris	65	1	14	80
Pinot Noir	90	3	12	105
Seyval	13	5	62	80
Vidal Blanc	2	3	100	105
Vignoles	38	4	53	95
White Riesling	175	4	36	215
Other	155	30	245	430
Total	740	210	13,450	14,400

**Grapes: Acres of other varieties grown**

Variety	Acres	Variety	Acres
Aurore	20	Gewurtztraminer	30
Baco Noir	13	Himrod	5
Cabernet Sauvignon	29	Marquis	6
Catawba	4	Merlot	46
Cayuga White	19	Pinot Blanc	12
Chambourcin	30	Pinot Meniuer	4
Chancellor	17	Regent	3
Chardonel	18	Syrah	3
Chelois	8	Traminette	17
De Chaunac	36	Others	78
Delaware	9		
Fredonia	8	Michigan	430
Gamay Noir	15		

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

Variety or category	1994		1997		2000		2003	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
Concord	9,610	80.1	9,100	72.8	9,200	68.1	9,530	66.2
Niagara	1,530	12.8	2,350	18.8	3,000	22.2	3,450	24.0
French hybrids	600	5.0	520	4.2	580	4.3	540	3.8
Viniferas	160	1.3	435	3.5	630	4.7	810	5.6
Other	100	0.8	95	0.8	90	0.7	70	0.5
Michigan	12,000		12,500		13,500		14,400	



# Nectarines

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

District	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
<b>Northwest</b>	11	7	4	4	9	3	3	5
<b>West Central</b>	21	16	10	10	33	20	15	15
<b>Southwest</b>	57	39	41	40	185	105	90	75
<b>East</b>	4	3	3	8	3	2	2	5
<b>Michigan</b>	93	65	58	62	230	130	110	100

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

Year planted	Acres	Trees
1989 and before	10	1,200
1990-1994	41	6,000
1995-1999	24	3,300
2000-2003	25	3,500
<b>Michigan</b>	<b>100</b>	<b>14,000</b>

**Nectarines: Acres and trees by variety**

Variety	Acres	Trees
Fantasia	30	4,300
Juneglo	10	1,100
Red Gold	18	2,200
Summer Beauty	6	900
Sunglo	19	3,300
Other	17	2,200
<b>Michigan</b>	<b>100</b>	<b>14,000</b>

# Peaches

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
Leelanau	26	15	12	14	50	45	50	70
Manistee	20	17	15	15	170	125	95	90
Other counties	37	31	27	36	80	80	65	70
<b>Northwest</b>	<b>83</b>	<b>63</b>	<b>54</b>	<b>65</b>	<b>300</b>	<b>250</b>	<b>210</b>	<b>230</b>
Kent	31	18	17	19	220	100	85	120
Mason	17	17	14	15	250	250	330	390
Muskegon	8	7	7	10	160	90	95	120
Newaygo	9	5	4	6	190	75	85	100
Oceana	69	66	66	70	1,500	1,350	1,800	1,900
Ottawa	15	14	14	15	100	100	110	130
Other counties	6	8	8	9	30	35	35	40
<b>West Central</b>	<b>155</b>	<b>135</b>	<b>130</b>	<b>144</b>	<b>2,450</b>	<b>2,000</b>	<b>2,540</b>	<b>2,800</b>
Allegan	43	32	28	27	530	490	470	380
Berrien	187	160	133	122	2,620	2,400	1,800	1,700
Van Buren	49	45	39	32	580	550	420	320
Other counties	12	11	7	10	70	60	40	50
<b>Southwest</b>	<b>291</b>	<b>248</b>	<b>207</b>	<b>191</b>	<b>3,800</b>	<b>3,500</b>	<b>2,730</b>	<b>2,450</b>
<b>East</b>	<b>71</b>	<b>69</b>	<b>69</b>	<b>70</b>	<b>250</b>	<b>250</b>	<b>220</b>	<b>220</b>
<b>Michigan</b>	<b>600</b>	<b>515</b>	<b>460</b>	<b>470</b>	<b>6,800</b>	<b>6,000</b>	<b>5,700</b>	<b>5,700</b>

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-9 acres	410	352	291	319	1,300	1,100	950	1,050
10-29 acres	130	111	123	106	2,150	1,800	2,000	1,800
30-99 acres	54	46	39	39	2,550	2,200	1,850	2,000
100-199 acres	6	6	7	6	800	900	900	850
Michigan	600	515	460	470	6,800	6,000	5,700	5,700

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

Year planted	Arkansas-9	Baby Gold-5	Bellaire	Canadian Harmony	Coralstar	Cresthaven	Fayette
1983 and before	13	46	4	10	0	7	3
1984-1988	26	130	7	27	0	12	9
1989-1993	62	345	39	58	6	41	8
1994-1998	410	340	44	36	16	14	31
1999	105	32	3	1	18	1	1
2000	190	43	3	12	32	9	0
2001	52	41	13	1	3	1	1
2002	8	52	1	2	6	0	8
2003	24	11	1	3	6	0	0
Michigan	890	1,040	115	150	87	85	61
	Glohaven	Glowingstar	Loring	Newhaven	PF-1	PF-12A	PF-15A
1983 and before	20	0	10	12	0	0	0
1984-1988	13	0	34	32	0	0	0
1989-1993	31	7	27	33	1	5	3
1994-1998	21	23	24	8	40	101	63
1999	6	19	3	1	1	0	3
2000	11	12	1	4	12	2	10
2001	0	11	2	0	1	0	0
2002	1	1	3	0	1	0	1
2003	2	1	1	0	0	2	0
Michigan	105	74	105	90	56	110	80
	PF-17	PF-23	Redhaven	Redskin	Vinegold	Other	Michigan
1983 and before	0	0	215	39	0	46	425
1984-1988	0	0	205	27	0	58	580
1989-1993	18	35	285	49	0	177	1,230
1994-1998	140	83	295	21	0	340	2,050
1999	0	4	15	2	0	75	290
2000	2	15	56	1	0	170	585
2001	0	3	27	3	0	31	190
2002	0	7	10	2	6	36	145
2003	0	3	22	1	81	47	205
Michigan	160	150	1,130	145	87	980	5,700

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

Year planted	Arkansas-9	Baby Gold-5	Bellaire	Canadian Harmony	Coralstar	Cresthaven	Fayette
1983 and before	1,200	4,500	500	1,200	0	900	300
1984-1988	2,900	15,500	1,000	3,400	0	1,500	1,400
1989-1993	6,400	44,500	5,900	7,400	1,600	5,000	1,100
1994-1998	61,000	46,500	5,900	4,800	2,900	1,900	4,600
1999	16,000	4,300	400	150	4,500	150	200
2000	26,700	6,100	400	1,500	5,500	1,200	0
2001	9,100	6,600	4,400	150	500	150	0
2002	1,200	7,300	150	250	1,400	0	1,300
2003	3,500	1,700	150	450	1,100	0	0
Michigan	128,000	137,000	18,800	19,300	17,500	10,800	8,900
	<b>Glohaven</b>	<b>Glowingstar</b>	<b>Loring</b>	<b>Newhaven</b>	<b>PF-1</b>	<b>PF-12A</b>	<b>PF - 15A</b>
1983 and before	1,900	0	1,000	1,900	0	0	0
1984-1988	1,700	0	4,300	4,400	0	0	0
1989-1993	4,300	1,300	3,600	5,100	100	700	500
1994-1998	2,900	4,300	3,900	1,200	6,100	16,900	12,300
1999	750	3,400	450	150	150	0	400
2000	1,500	2,200	200	550	1,850	300	1,300
2001	0	1,900	300	0	150	0	0
2002	150	200	400	0	150	0	200
2003	300	200	150	0	0	400	0
Michigan	13,500	13,500	14,300	13,300	8,500	18,300	14,700
	<b>PF-17</b>	<b>PF-23</b>	<b>Redhaven</b>	<b>Redskin</b>	<b>Vinegold</b>	<b>Other</b>	<b>Michigan</b>
1983 and before	0	0	23,000	5,400	0	5,300	47,100
1984-1988	0	0	25,100	3,200	0	7,500	71,900
1989-1993	3,200	7,000	34,700	6,700	0	30,900	170,000
1994-1998	26,500	16,500	46,500	3,000	0	61,300	329,000
1999	0	700	2,000	300	0	15,000	49,000
2000	400	3,900	7,400	200	0	28,900	90,100
2001	0	500	4,100	450	0	6,400	34,700
2002	0	1,200	1,300	300	1,000	6,700	23,200
2003	0	800	2,900	150	15,200	8,000	35,000
Michigan	30,100	30,600	147,000	19,700	16,200	170,000	850,000



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

Variety	West Central		Southwest		Northwest and East		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Arkansas-9	865	124,000	15	2,400	10	1,600	890	128,000
Baby Gold-5	985	129,000	40	5,800	15	2,200	1,040	137,000
Bellaire	37	8,400	60	8,100	18	2,300	115	18,800
Canadian Harmony	45	5,900	89	11,500	16	1,900	150	19,300
Coralstar	29	5,800	57	11,500	1	200	87	17,500
Cresthaven	32	4,300	43	5,400	10	1,100	85	10,800
Fayette	4	600	56	8,200	1	100	61	8,900
Glohaven	22	2,200	61	8,500	22	2,800	105	13,500
Glowingstar	3	500	70	12,900	1	100	74	13,500
Loring	1	100	91	12,400	13	1,800	105	14,300
Newhaven	12	2,300	61	8,800	17	2,200	90	13,300
PF-1	21	3,100	29	4,600	6	800	56	8,500
PF-12A	45	8,700	53	8,200	12	1,400	110	18,300
PF-15A	16	3,000	60	11,000	4	700	80	14,700
PF-17	29	5,600	125	23,700	6	800	160	30,100
PF-23	19	3,600	120	25,400	11	1,600	150	30,600
Redhaven	345	47,000	610	81,000	175	19,000	1,130	147,000
Redskin	3	400	135	18,600	7	700	145	19,700
Vinegold	87	16,200	0	0	0	0	87	16,200
Other	200	34,300	675	122,000	105	13,700	980	170,000
<b>Total</b>	<b>2,800</b>	<b>405,000</b>	<b>2,450</b>	<b>390,000</b>	<b>450</b>	<b>55,000</b>	<b>5,700</b>	<b>850,000</b>

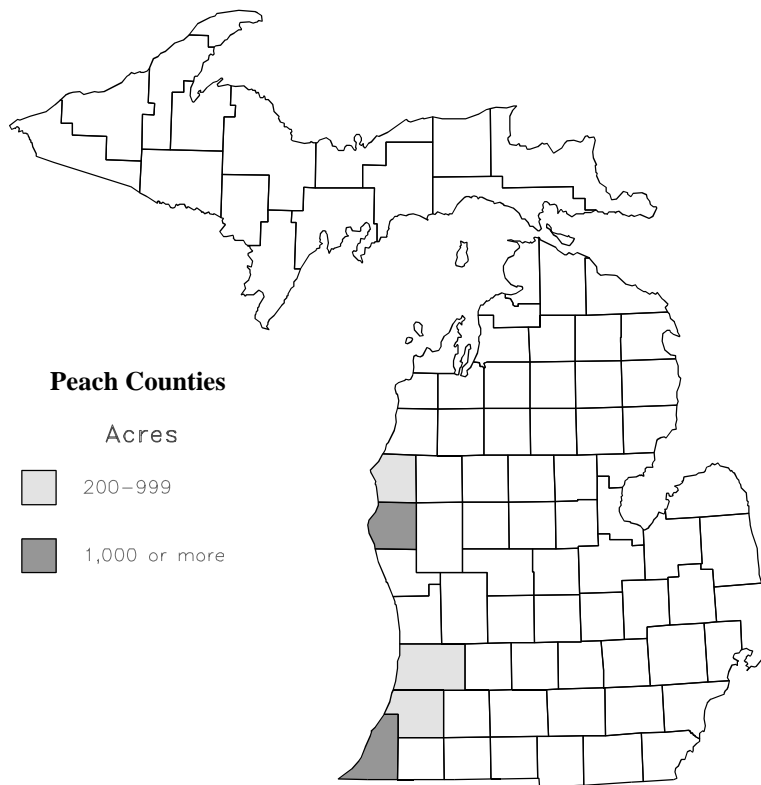
**Peaches: Trees and percent of total by variety**

Variety	1991		1997		2000		2003	
	Trees	Percent	Trees	Percent	Trees	Percent	Trees	Percent
Arkansas-9	( <sup>1</sup> )		32,200	3.7	107,000	12.7	128,000	15.1
Baby Gold-5	106,000	9.6	128,000	14.9	133,000	15.7	137,000	16.1
Bellaire	23,800	2.2	18,200	2.1	18,000	2.1	18,800	2.2
Canadian Harmony	99,900	9.1	48,200	5.6	29,000	3.4	19,300	2.3
Coralstar	( <sup>1</sup> )		( <sup>1</sup> )		12,400	1.5	17,500	2.1
Cresthaven	63,200	5.7	20,200	2.3	12,900	1.5	10,800	1.3
Fayette	19,300	1.8	16,800	2	9,300	1.1	8,900	1
Glohaven	50,000	4.5	23,300	2.7	16,100	1.9	13,500	1.6
Glowingstar	( <sup>1</sup> )		( <sup>1</sup> )		14,200	1.7	13,500	1.6
Loring	59,300	5.4	26,000	3	17,400	2.1	14,300	1.7
Newhaven	37,900	3.4	30,600	3.6	20,600	2.4	13,300	1.6
PF-1	( <sup>1</sup> )		( <sup>1</sup> )		9,100	1.1	8,500	1
PF-12A	( <sup>1</sup> )		24,800	2.9	22,400	2.7	18,300	2.2
PF-15A	( <sup>1</sup> )		13,800	1.6	15,400	1.8	14,700	1.7
PF-17	( <sup>1</sup> )		38,800	4.5	29,200	3.5	30,100	3.5
PF-23	( <sup>1</sup> )		28,900	3.4	24,100	2.9	30,600	3.6
Redhaven	388,000	35.3	229,000	26.6	185,000	21.9	147,000	17.3
Redskin	74,900	6.8	36,900	4.3	25,100	3	19,700	2.3
Vinegold	( <sup>1</sup> )		( <sup>1</sup> )		( <sup>1</sup> )		16,200	1.9
Other	177,700	16.2	144,300	16.8	144,800	17.1	170,000	20
<b>Michigan</b>	<b>1,100,000</b>	<b>100</b>	<b>860,000</b>	<b>100</b>	<b>845,000</b>	<b>100</b>	<b>850,000</b>	<b>100</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
Allstar	55	10,900	PF-19A	13	3,900
Baby Gold-7	10	1,700	PF20-007	7	1,500
Belle of Georgia	3	400	PF24-007	46	8,600
Biscoe	10	1,300	PF-25	11	2,300
Blazingstar	14	3,300	PF-27A	54	13,000
Blushingstar	15	2,700	PF-5B	23	3,900
Candor	8	1,100	PF-Other	42	11,800
Encore	10	1,400	Redkist	30	3,900
Garnet Beauty	28	3,500	Redstar	26	4,900
Harbelle	3	300	Reliance	4	600
Harbinger	3	400	Risingstar	32	7,000
Harbrite	18	2,700	Starfire	40	7,900
Harcrest	12	1,800	Summer Serenade	21	3,700
Harrow Beauty	10	1,400	Suncrest	13	2,000
Harrow Diamond	19	3,000	Sweet Haven	14	1,900
Jayhaven	17	2,300	Sweet Sue	9	1,100
Jersey Dawn	20	2,500	Winkel	21	3,700
Jersey Glo	5	600	Other	210	29,500
Jim Dandee	50	8,400			
John Boy	40	6,500	Michigan	980	170,000
PF-7	14	2,600			



# Pears

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
Antrim	7	7	7	7	30	30	40	45
Benzie	4	4	4		16	16	16	
Grand Traverse	7	6	6	7	55	48	45	45
Leelanau	9	8	8	8	34	28	31	45
Other counties	9	8	8	10	25	18	23	25
<b>Northwest</b>	36	33	33	32	160	140	155	160
Mason	10	12	11	9	69	83	95	100
Oceana	19	17	16	15	250	250	260	270
Other counties	23	21	16	15	81	57	50	50
<b>West Central</b>	52	50	43	39	400	390	405	420
Allegan	25	20	17	14	170	135	80	75
Berrien	43	32	28	27	150	95	85	70
Van Buren	21	17	15	12	115	95	85	85
Other counties	3	3	4	5	5	5	5	5
<b>Southwest</b>	92	72	64	58	440	330	255	235
<b>East</b>	55	55	60	66	100	90	85	85
<b>Michigan</b>	235	210	200	195	1,100	950	900	900

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-4 acres	166	153	145	148	280	220	220	220
5-9 acres	37	29	30	22	230	180	195	150
10-19 acres	23	20	18	19	290	250	225	270
20 acres or more	9	8	7	6	300	300	260	260
Michigan	235	210	200	195	1,100	950	900	900

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

Year planted	Bartlett	Bosc	Other	Michigan
1978 and before	588	38	24	650
1979-1988	35	10	8	53
1989-1998	85	7	33	125
1999	4	1	1	6
2000	2	0	4	6
2001	12	3	18	33
2002	12	1	4	17
2003	7	0	3	10
Michigan	745	60	95	900

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

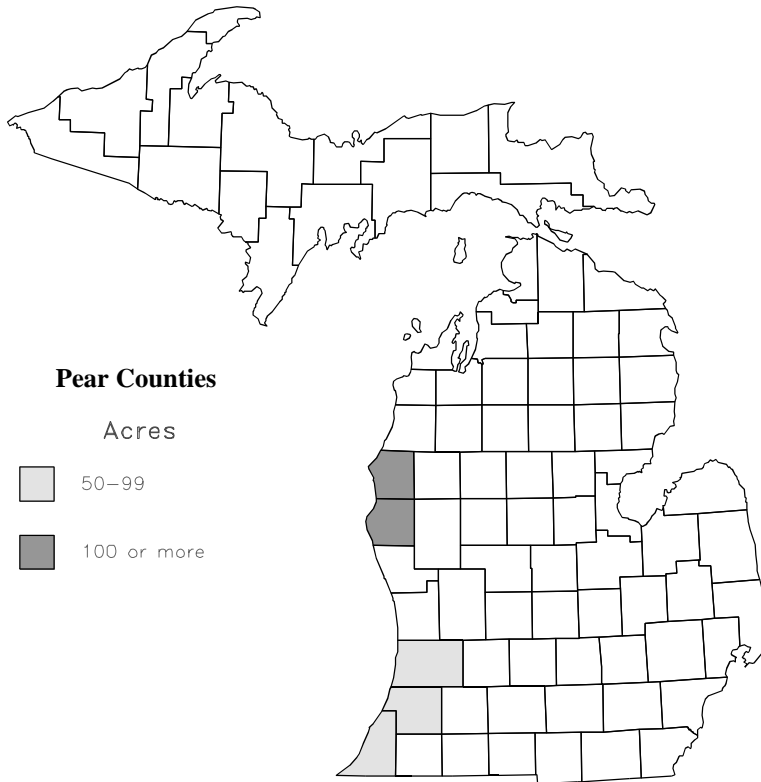
Variety	Acres	Trees
Asian	21	4,050
Clapp's	16	1,150
D'Anjou	8	900
Kieffer	2	150
Spartlett	8	850
Other	40	5,000
Michigan	95	12,100

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

Year planted	Bartlett	Bosc	Other	Michigan
1978 and before	63,200	3,300	2,000	68,500
1979-1988	3,800	1,300	900	6,000
1989-1998	9,500	800	4,000	14,300
1999	550	130	120	800
2000	300	0	900	1,200
2001	1,500	400	3,100	5,000
2002	1,500	170	630	2,300
2003	1,450	0	450	1,900
Michigan	81,800	6,100	12,100	100,000

**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	180	17,300	400	47,400	165	17,100	745	81,800
Bosc	23	2,200	12	1,200	25	2,700	60	6,100
Other	42	5,500	8	900	45	5,700	95	12,100
Total	245	25,000	420	49,500	235	25,500	900	100,000



# Plums

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

County and district	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
Grand Traverse	18	13	9	9	160	65	60	65
Leelanau	31	22	21	23	280	230	185	190
Other counties	18	8	7	8	60	45	35	35
<b>Northwest</b>	<b>67</b>	<b>43</b>	<b>37</b>	<b>40</b>	<b>500</b>	<b>340</b>	<b>280</b>	<b>290</b>
Mason	17	10	7	5	180	130	80	65
Oceana	31	17	15	13	370	190	155	115
Other counties	31	16	17	20	150	55	65	85
<b>West Central</b>	<b>79</b>	<b>43</b>	<b>39</b>	<b>38</b>	<b>700</b>	<b>375</b>	<b>300</b>	<b>265</b>
Allegan	16	8	6		95	70	40	
Berrien	73	52	43	36	220	190	150	110
Van Buren	42	29	25	18	300	220	180	150
Other counties	9	5	3	12	50	20	15	50
<b>Southwest</b>	<b>140</b>	<b>94</b>	<b>77</b>	<b>66</b>	<b>665</b>	<b>500</b>	<b>385</b>	<b>310</b>
<b>East</b>	<b>39</b>	<b>35</b>	<b>37</b>	<b>36</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>
<b>Michigan</b>	<b>325</b>	<b>215</b>	<b>190</b>	<b>180</b>	<b>1,900</b>	<b>1,250</b>	<b>1,000</b>	<b>900</b>

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

Size group	Farms				Acres			
	1994	1997	2000	2003	1994	1997	2000	2003
1-4 acres	204	135	123	124	340	225	180	190
5-9 acres	56	35	34	25	350	235	220	160
10-19 acres	41	33	23	22	510	440	310	300
20 acres or more	24	12	10	9	700	350	290	250
Michigan	325	215	190	180	1,900	1,250	1,000	900

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

Year planted	Damson	Stanley	Other	Michigan
1983 and before	42	130	18	190
1984-1988	27	155	13	195
1989-1993	15	105	15	135
1994-1998	35	120	80	235
1999	11	10	21	42
2000	3	23	37	63
2001	1	8	8	17
2002	2	1	8	11
2003	4	3	5	12
Michigan	140	555	205	900

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

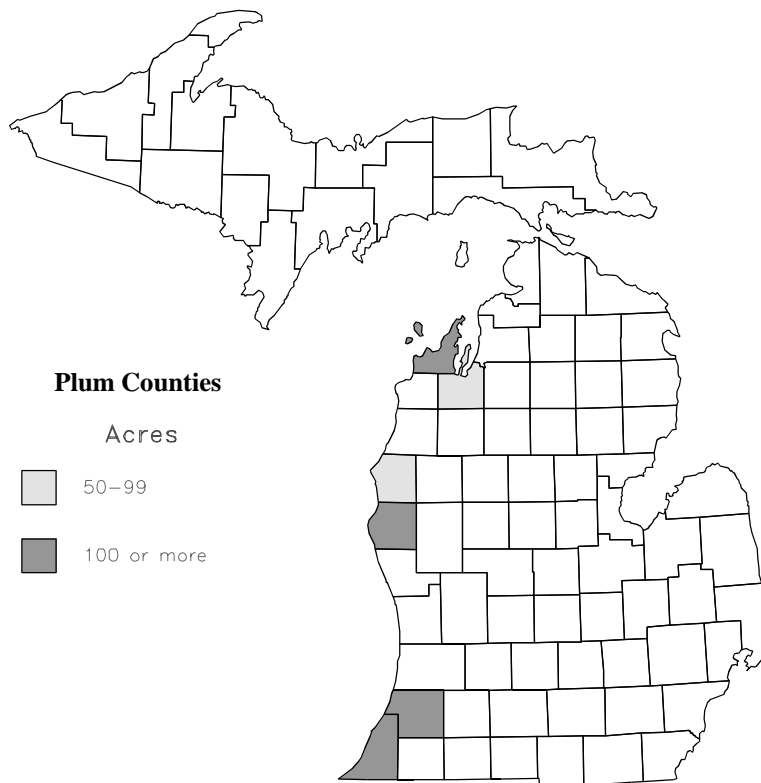
Year planted	Damson	Stanley	Other	Michigan
1983 and before	4,700	14,700	2,000	21,400
1984-1988	3,600	19,100	1,400	24,100
1989-1993	2,000	11,800	1,600	15,400
1994-1998	4,500	15,600	9,100	29,200
1999	1,400	1,200	3,300	5,900
2000	400	3,500	5,700	9,600
2001	150	1,850	1,700	3,700
2002	300	150	1,350	1,800
2003	550	600	750	1,900
Michigan	17,600	68,500	26,900	113,000

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

Variety	Acres	Trees
Bluefre	15	1,600
Burbank	2	250
Castleton	30	4,900
Fortune	2	200
Italian	5	650
Methley	5	450
NY 6	30	4,600
NY 9	52	7,300
Ozark Premier	5	500
Red Heart	2	230
Santa Rosa	3	270
Shiro	9	1,200
Valor	7	750
Other	38	4,000
Michigan	205	26,900

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

Variety	Northwest		West Central and East		Southwest		Michigan	
	Acres	Trees	Acres	Trees	Acres	Trees	Acres	Trees
Damson	105	12,700	5	600	30	4,300	140	17,600
Stanley	160	16,600	165	22,900	230	29,000	555	68,500
Other	25	3,300	130	18,100	50	5,500	205	26,900
Total	290	32,600	300	41,600	310	38,800	900	113,000



# Strawberries

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

County and district	Farms				Acres			
	1995	1997	2000	2003	1995	1997	2000	2003
Kent	15	10	10	7	90	60	70	50
Leelanau	12	7	6	4	100	30	35	30
Manistee	12	9	7	5	110	65	65	60
Oceana	9	5	4	6	105	35	20	35
Ottawa	7	7	5		30	30	25	
Other counties	43	36	28	32	95	80	100	115
<b>Northwest and West Central</b>	<b>98</b>	<b>74</b>	<b>60</b>	<b>54</b>	<b>530</b>	<b>300</b>	<b>315</b>	<b>290</b>
Berrien	26	23	18	18	250	160	80	105
Cass			4	4			50	50
Van Buren	11	11		10	80	90		90
Other counties	15	13	10	3	140	130	40	15
<b>Southwest</b>	<b>52</b>	<b>47</b>	<b>32</b>	<b>35</b>	<b>470</b>	<b>380</b>	<b>170</b>	<b>260</b>
Bay			6	4			30	25
Houghton	8	7	11	9	40	30	35	25
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 counties	91	85	79	78	570	515	410	450
<b>East</b>	<b>130</b>	<b>119</b>	<b>108</b>	<b>91</b>	<b>800</b>	<b>720</b>	<b>565</b>	<b>500</b>
<b>Michigan</b>	<b>280</b>	<b>240</b>	<b>200</b>	<b>180</b>	<b>1,800</b>	<b>1,400</b>	<b>1,050</b>	<b>1,050</b>

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

Size group	Farms				Acres			
	1995	1997	2000	2003	1995	1997	2000	2003
1-4 acres	162	137	126	101	440	280	260	210
5-9 acres	58	52	41	47	360	320	255	310
10-19 acres	48	42	27	25	570	520	345	320
20 acres or more	12	9	6	7	430	280	190	210
Michigan	280	240	200	180	1,800	1,400	1,050	1,050

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

Year planted	Allstar	Earliglow	Honeoye	Jewel	Other	Michigan
1998 and before	78	21	30	49	52	230
1999	15	4	20	23	28	90
2000	17	5	23	50	70	165
2001	6	19	39	66	55	185
2002	20	12	21	29	73	155
2003	34	19	27	48	97	225
Michigan	170	80	160	265	375	1,050

**Strawberries: Acres by district and variety**

Variety	Northwest and West Central	East	Southwest	Michigan
Allstar	32	65	73	170
Earliglow	30	44	6	80
Honeoye	68	81	11	160
Jewel	80	120	65	265
Other	80	190	105	375
Total	290	500	260	1,050

**Strawberries: Acres of other varieties grown**

Variety	Acres	Variety	Acres
Annapolis	33	Mohawk	32
Cavendish	19	Northeaster	41
Darselect	11	Primestar	4
Delmarvel	5	Red Chief	21
Guardian	22	Seneca	24
Kent	41	Sparkle	13
Lateglow	12	Winona	11
Latestar	3	Other	32
Lester	5		
Mesabi	29	Michigan	375
Mira	17		



# Abandoned Orchards

**Growers reporting abandoned orchards  
in their growing area by district**

District	Yes	No	Unknown
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
<b>Northwest</b>	27	51	22
<b>West Central</b>	30	49	21
<b>Southwest</b>	23	52	24
<b>East</b>	23	43	34
<b>Michigan</b>	25	50	25

**Growers reporting the number of abandoned  
acres within one half mile of their fruit**

Number of acres	Percent <sup>1</sup>
1-10 acres	43
11-20 acres	27
21-50 acres	17
51-100 acres	10
100+Acres	3

<sup>1</sup> Based on the 24 percent of growers who reported abandoned orchards within one half mile of their fruit.

**Percent of abandoned orchard acres reported  
by growers in primary township by species <sup>1</sup>**

Species	Percent
Apples	82
Grapes	4
Blueberries	4
Cherries	7
Other	3

<sup>1</sup> Asked only of those who responded yes to presence in their growing area.

**Growers reporting the amount of reduced fruit  
quality of yield from insect or plant disease  
infiltration from abandoned orchards**

Extent of reduced quality or yield	Percent <sup>1</sup>
None	34
Slight	33
Moderate	20
Extensive	13

<sup>1</sup> Based on the 24 percent of growers who reported abandoned blocks within one half mile of their fruit.

**Growers reporting the number of abandoned  
blocks within one half mile of their fruit**

Number of blocks	Percent
None	76
1	14
2 or more	10

**Growers reporting the amount of increase in pest  
management costs from insect or plant disease  
infiltration from abandoned orchards**

Increase in Cost	Percent <sup>1</sup>
None	29
Slight	31
Moderate	23
Extensive	17

<sup>1</sup> Based on the 24 percent of growers who reported abandoned blocks within one half mile of their fruit.

**Number of growers reporting  
abandoned fruit acreage within  
one half mile of their fruit by  
county and district**

County and district	Number
Antrim	9
Benzie	13
Grand Traverse	10
Leelanau	16
Manistee	13
Other counties	1
<b>Northwest</b>	<b>62</b>
Ionia	6
Kent	20
Mason	6
Muskegon	10
Newaygo	6
Oceana	12
Ottawa	9
<b>West Central</b>	<b>69</b>
Allegan	19
Berrien	36
Van Buren	31
Other counties	3
<b>Southwest</b>	<b>89</b>
Genessee	4
Lapeer	3
Macomb	7
Other counties	23
<b>East</b>	<b>37</b>
<b>Michigan</b>	<b>257</b>

**Uniquely identified  
abandoned orchards by county**

County	Number
Allegan	7
Benzie	8
Berrien	25
Grand Traverse	6
Kent	6
Leelanau	8
Manistee	11
Mason	4
Muskegon	3
Oceana	9
Ottawa	5
VanBuren	25
Other counties <sup>1</sup>	6
<b>Michigan</b>	<b>123</b>

<sup>1</sup> Ionia, Kalamazoo, Macomb, Montcalm and Newaygo

## Survey Methods

The list sampling frame maintained by Michigan Agricultural Statistics 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 half 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 2003. Growers who responded to the 2000 Fruit Inventory were also sent a printout of their responses to that inventory. Data collection continued until the spring of 2004.

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, irrigation type, 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-five percent were returned by mail, 34 percent were completed by telephone, and 27 percent were done by personal interview. Ten percent refused to do the inventory, and four 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 inaccessibles. 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>	84.9	88.0	74.1	83.2	87.1	100.0	86.5	66.7	79.3	87.0	79.6	87.2	85.4
Mason-Oceana	80.2												
Grand Rapids	74.8												
<b>West Central</b>	76.0	84.6	83.3	79.0	77.1	100.0	100.0	94.4	76.4	87.6	79.4	84.4	77.9
<b>Southwest</b>	72.3	91.9	42.7	84.3	83.7	100.0	87.6	90.9	79.6	78.5	84.6	73.1	84.0
<b>East</b>	83.8	79.2	91.3	92.8	81.5	87.5	96.6	88.9	85.6	80.6	86.7	81.3	84.0
<b>Michigan</b>	76.6	89.1	70.9	82.6	83.3	99.2	87.7	89.4	78.3	84.4	81.7	80.4	82.1



# Michigan Fruit Inventory-2003



Project Code 482

October, 2003

Dear Grower:

Michigan's fruit industry needs updated information for planning, marketing, and production forecasting. The last inventory was conducted in 2000. This project initiates the fifth cycle of the Michigan Department of Agriculture's Rotational Specialty Crop Survey. Response to this survey is voluntary and not required by law, however, your voluntary cooperation in reporting about the fruit acreage you operated in 2003 is needed. A computer printout of your report will be returned to you for your records. Your report is strictly confidential. Thank you for your help.

David D. Kleweno  
 State Statistician

Marty Saffell  
 Statistician

To avoid duplication, indicate below any farm name or partner(s) associated with this operation.

Farm Name: \_\_\_\_\_

Partners' Names: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

If not growing fruit, check reason below and give new operator's name.

1.  Farm sold.
2.  Retired from farming.
3.  Entire farm rented to others.
4.  Farming, but not growing fruit.

New Operator Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

\*\*\*\*\* Please read instructions on next page before proceeding. \*\*\*\*\*

**Report for all land you operate (Include land you rent from others, but exclude land you rent to others).**

List the total acres in your operation, for each fruit grown.

Crop	Total Acreage
Apples	001
Tart Cherries	101
Sweet Cherries	151
Blueberries	201
Grapes	301
Peaches	401

Crop	Total Acreage
Plums	501
Pears	601
Brambles	701
Strawberries	751
Cranberries	801
Nectarines	851

## 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 2000 Fruit Survey*, you will find enclosed a printout of the blocks you reported in 2000. 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 2000 printout should be returned with this questionnaire in which you should report on new blocks acquired or planted since 2000. 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 2000 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
Home Farm	Van Buren	Keeler	7	022	1	1968	525	5•0	20 x 20
Jones Place	Van Buren	Keeler	8	Sport Red Delicious	5	1982	530	4•0	16 x 20
Jones Place	Van Buren	Keeler	8	012	5	1982	125	1•0	16 x 20

### 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
Home	Grand	Xavier	5	Schmidt 170	2	1981	2,400	24•0	20 x 20
Home	Grand	Xavier	5	163	2	1981	600	6•0	20 x 20
North Forty	Grand	Xavier	4	111	1	1990	660	5•5	18 x 20



1. In the townships where you operate, are there any abandoned fruit orchards, vineyards, or plantations left unmanaged for at least one year? (Enter "1" in the appropriate box.)

410 Yes	(continue)	411 No	(go to item 6)	412 Don't know	(go to item 6)
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2. In the primary township where you operate, about how many abandoned acres are there of the following?

Apples	413	acres	Blueberries	415	acres	Cherries	417	acres
Grapes	414	acres	Other tree fruit	416	acres			

3. Within one-half mile of any of your fruit,

How many abandoned blocks (fields) of fruit are there?	418	number
How many abandoned acres of fruit are there?	419	acres

4. Rate the amount of reduced fruit quality or yield you have experienced from insect or plant disease infiltration from abandoned fruit acreage: (Enter "1" in the appropriate box.)

420 None	421 Slight	422 Moderate	423 Extensive
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5. Rate the amount of increase in the cost of pest management you have experienced from insect or plant disease infiltration from abandoned fruit acreage: (Enter "1" in the appropriate box.)

424 None	425 Slight	426 Moderate	427 Extensive
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6. Thank you for completing the fruit acreage update and providing input on abandoned orchards. A report with the results will be available next fall at [www.nass.usda.gov/mi](http://www.nass.usda.gov/mi)

**office use only**  
**Mark on the county map the abandoned fruit farms referred to in question 3.**  
**code 1 code 2 code 3 code 4 code 5**

**(Use capital letters. If more than 26 letters are needed, proceed with AA, AB, AC, AD, ADE, etc.)**

Reported by: \_\_\_\_\_ Telephone: \_\_\_\_\_ Date: \_\_\_\_\_

Office Use Only	Method	Respondent	Response Code	Enum.	Eval.
407		101	910	098	100
		1-Op/Ptnr 2-Sp 3-Acct/Bkpr 4-Oth 5-Est R 6-Est NR	2-Tel 3-Int 7-TR 8-IR 9-Inac		



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## INTERNET ACCESS

Reports, data products, and services published by Michigan Agricultural Statistics, 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.michigan.gov/mda>

- **Michigan Agricultural Statistics (MAS)**

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

Under the **MAS** 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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