

Fruit

The 2001 growing season started out with seasonal conditions that allowed fruit maturity to progress at a normal pace through May and into June. A frost event on May 12 and 13 seriously damaged the juice grapes in the southwest. Blueberries and cherries also incurred some damage. However, prospects were good to excellent for most fruit crops going into the summer months. Temperature patterns shifted in June bringing warm and dry conditions that continued through most of the summer. Apple yields were good but lower than originally anticipated. The dry summer hampered sizing, and late season fruit drop in some areas was higher than normal. Harvest was virtually completed by the end of October. In tart and sweet cherries, the favorable weather during April caused a short bloom that led to a good set on all trees and a heavy set on some. There was no adverse weather during the growing season except for isolated hail and minor frost damage in the southwest and northwest. Fruit size was smaller than normal due to the warm, dry June weather. The tart cherry crop was the largest since 1995 and the second largest on record. Sweet cherry production was up 17 percent from the previous year. Peach growers reported excellent quality, but dry conditions in July and August reduced fruit size. Most of the blueberry acreage benefitted from the good spring and early summer weather as yields were the largest since 1993. Non-irrigated fields did suffer sizing problems due to the July and August drought. Van Buren and Allegan counties also had high Japanese beetle pressure. Pear yields were fair with poor size due to the dry July and August. This caused some growers to spot pick and leave pears in the orchards. Yield and quality of plums were also fair. The dry July and August caused some drop and size problems.

Apple production was 880 million pounds, up 80 million pounds from 2000. The farm level value of the crop was \$81.6 million, up 10.2 percent from 2000. Michigan ranked third in U.S. apple production behind Washington and New York. Washington

produced 5.1 billion pounds and New York produced 1.0 billion pounds in 2001.

Tart cherry production was 297 million pounds, 80 percent of the U.S. total. The yield per bearing acre was 10,800 pounds, up from 7,020 in 2000. The preliminary farm level value was \$37.9 million. Sweet cherry production was 23,000 tons, up from 19,600 tons in 2000. The average yield per bearing acre was 3.11 tons. The preliminary farm level value was \$11.1 million.

Cultivated blueberry production in Michigan was 77 million pounds, about 38 percent of the U.S. total. Growers harvested 17,400 acres in 2001. The farm level value was \$51.3 million. Seventy-one percent of Michigan blueberries were processed. New Jersey growers produced 38 million pounds. Strawberry production in Michigan was 5.8 million pounds on 1,000 harvested acres. The preliminary farm level value of the crop was \$5.5 million, down 11 percent from 2000.

Michigan peach production fell to 42 million pounds, down 5.5 million pounds from 2000. Total bearing acres were 4,500, and the preliminary farm level value was \$12.5 million. Pear production in Michigan was 4,600 tons from 800 acres. The preliminary farm level value was \$1.2 million. Michigan plum production was 3,600 tons on 900 bearing acres. The preliminary farm level value was \$1.3 million.

Michigan grape production in 2001 fell to 28,900 tons, down 67 percent from 2000. The preliminary farm level value was \$8.9 million. There were 19,000 tons of Concord and 7,000 tons of Niagaras processed. Grapes processed for wine fell to 2,200 tons, down 29 percent from 2000.

Fruit: Record highs and lows

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Apples	Million pounds	1,200	1999	53	1945	1889
Blueberries	Million pounds	87	1993	34	1992	1992
Cherries, sweet	Tons	37,500	1978	500	1945	1925
Cherries, tart	Million pounds	380	1964	18	1927	1925
Grapes	Tons	87,200	2000	4,200	1889	1889
Peaches	Million pounds	255	1945,1946	7.4	1918	1889
Pears	Tons	48,600	1964	2,500	1990	1889
Prunes and plums	Tons	25,000	1971	1,700	1945	1919
Strawberries	1,000 cwt	451	1940	58	2001	1928

Fruit: Acres harvested and value of production, 1997-2001

Item	Unit	1997	1998	1999	2000	2001
Acres harvested	1,000 acres	127	127	124	122	116
Value of production	1,000 dollars	244,732	205,010	249,763	218,999	217,789

Fruit: Acres, production, and value, 1997-2001

Fruit and Year	Bearing acres	Yield	Production		Price	Value of production
			Total	Utilized		
	<i>Acres</i>	<i>Pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
Apples						
1997	54,000	18,500	1,000	1,000	0.098	98,200
1998	54,000	18,500	1,000	960	0.087	83,200
1999	52,000	23,100	1,200	1,180	0.088	103,465
2000	48,500	16,500	800	795	0.093	74,065
2001	44,000	20,000	880	850	0.096	81,610
Blueberries ¹						
1997	16,500	4,360	72	72	0.695	50,042
1998	16,400	2,990	49	49	0.618	30,260
1999	16,600	4,220	70	70	0.781	54,660
2000	16,700	3,710	62	62	0.889	55,140
2001	17,400	4,430	77	77	0.666	51,315
Cherries, tart						
1997	28,400	7,920	225	221	0.156	34,380
1998	28,400	9,260	263	229	0.140	32,162
1999	28,100	6,580	185	185	0.228	42,134
2000	28,500	7,020	200	200	0.182	36,370
2001	27,400	10,800	297	242	0.184	44,412
Peaches						
1997	5,000	11,000	55.0	55.0	0.263	14,450
1998	5,000	8,600	43.0	42.5	0.272	11,546
1999	4,600	5,000	23.0	23.0	0.237	5,440
2000	4,800	9,900	47.5	45.5	0.249	11,340
2001	4,500	9,330	42.0	42.0	0.298	12,503
	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars per ton</i>	<i>1,000 dollars</i>
Cherries, sweet						
1997	7,800	3.46	27,000	27,000	740	19,986
1998	7,900	4.43	35,000	33,000	562	18,551
1999	7,700	3.51	27,000	26,500	534	14,149
2000	7,600	2.58	19,600	19,600	486	9,520
2001	7,400	3.11	23,000	23,000	482	11,092
Grapes						
1997	12,300	4.96	61,000	61,000	293	17,873
1998	12,300	5.72	70,400	70,400	282	19,820
1999	11,700	6.40	74,900	74,900	281	21,083
2000	12,500	6.98	87,200	87,200	277	24,156
2001	12,300	2.35	28,900	28,500	313	8,926
Pears						
1997	900	4.44	4,000	4,000	250	1,000
1998	900	5.60	5,040	4,800	271	1,302
1999	850	5.88	5,000	4,900	265	1,300
2000	800	6.50	5,200	5,200	270	1,402
2001	800	5.75	4,600	3,900	297	1,160
Plums						
1997	1,150	3.48	4,000	4,000	348	1,390
1998	1,100	3.27	3,600	3,600	300	1,080
1999	900	4.44	4,000	3,750	299	1,120
2000	800	4.50	3,600	3,300	261	861
2001	900	4.00	3,600	3,600	358	1,289

¹ Harvested acres.

Apples: Stocks in cold and controlled atmosphere storage ¹

Month	Crop year				
	1997	1998	1999	2000	2001
	<i>1,000 pounds</i>				
October	444,738		525,756	416,923	484,244
November	459,102	405,993	534,061	343,731	392,432
December	365,106	347,729	382,346	294,088	343,380
January	289,519	241,038	357,336	238,013	261,696
February	201,020	177,725	264,771	215,482	199,318
March	118,194	101,682	193,012	160,481	178,996
April	72,368	58,357	127,684	104,512	78,303

¹ End-of-month stocks.

Apples: Utilization and price, 1997-2001

Year	Fresh market		Processing		Total	
	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb
	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>
1997	300	0.150	700	0.076	1,000	0.098
1998	320	0.140	640	0.060	960	0.087
1999	370	0.145	810	0.062	1,180	0.088
2000	260	0.147	535	0.067	795	0.093
2001	270	0.168	580	0.063	850	0.096

Apples, processing: Utilization and price, 1997-2001

Year	Canned		Frozen		Juice and cider		Other	
	Quantity	Price per lb						
	<i>Million pounds</i>	<i>Dollars</i>						
1997	265	0.090	160	0.096	270	0.052	5	0.060
1998	230	0.073	100	0.086	300	0.041	10	0.050
1999	255	0.072	160	0.082	380	0.045	15	0.060
2000	190	0.078	120	0.085	215	0.048	10	0.083
2001	225	0.070	120	0.085	220	0.043	15	0.065

Blueberries: Utilization and price, 1997-2001

Year	Production		Fresh market		Processed	
	Total	Utilized	Quantity	Price per pound	Quantity	Price per pound
	<i>Million lbs</i>	<i>Million lbs</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>Million lbs</i>	<i>Dollars</i>
1997	72	72	19	0.988	53	0.590
1998	49	49	16	0.860	33	0.500
1999	70	70	18	1.130	52	0.660
2000	62	62	19	1.250	43	0.730
2001	77	77	22	0.970	55	0.545

Cherries, sweet: Production and utilization, 1997-2001

Year	Total production	Utilized production							
		Fresh		Canned		Brined		Other ¹	
		Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton
	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>
1997	27,000	500	1,600	800	1,000	21,500	650	4,200	1,050
1998	35,000	700	1,400	4,700	580	24,500	530	3,100	598
1999	27,000	950	1,500	3,900	540	19,300	470	2,350	650
2000	19,600	600	1,680	3,000	500	14,650	430	1,350	530
2001	23,000	1,000	1,280	700	450	15,500	440	5,800	460

¹ Frozen, juice, etc.

Cherries, tart: Utilization, 1997-2001

Year	Production		Fresh market	Processed					
	Total	Utilized		Canned		Frozen		Other ¹	
				Quantity	Price per pound	Quantity	Price per pound	Quantity	Price per pound
	<i>Million lbs</i>	<i>Million lbs</i>	<i>Million lbs</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>Million lbs</i>	<i>Dollars</i>
1997	225	221	1	70	0.164	145	0.153	5	0.042
1998	263	229	1	65	0.147	150	0.139	13	0.064
1999	185	185	1	69	0.239	100	0.230	15	0.144
2000	200	200	1	80	0.187	110	0.181	9	0.106
2001	297	242	1	80	0.179	151	0.189	10	0.098

¹ Juice, wine, brined, and dried.

Cherries, tart: Production by region, 1997-2001

Region	1997	1998	1999	2000	2001
	<i>Million pounds</i>				
Northwest	140	186	108	109	183
West Central	70	59	48	71	84
Southwest and other	15	18	29	20	30
Michigan	225	263	185	200	297

Cherries, tart, frozen: Stocks in cold storage, 1998-2001, crop years

Month	East North Central region ¹				48 States total ²			
	1998	1999	2000	2001	1998	1999	2000	2001
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>
July	144,388	141,216	135,748	135,786	169,624	162,135	166,000	158,160
August	139,644	131,875	133,294	151,858	165,591	156,754	160,497	174,165
September	133,436	126,300	115,570	137,019	157,631	149,070	141,514	155,033
October	121,605	114,435	110,116	124,835	143,413	136,220	133,210	144,013
November	112,595	105,799	101,551	111,568	133,236	125,343	122,339	129,620
December	100,308	98,574	95,628	109,652	122,205	116,364	115,042	127,215
January	89,465	88,934	90,638	101,979	108,846	105,384	107,783	117,143
February	82,191	82,887	83,994	101,197	100,498	97,224	98,810	115,834
March	73,785	72,641	75,583	94,168	90,498	84,957	88,595	106,150
April	65,852	67,478	68,465	85,579	79,947	78,475	78,721	96,170
May	58,847	57,753	58,553	78,357	70,786	66,628	66,095	86,138
June	49,763	53,578	50,822	68,655	58,361	61,412	56,927	75,159

¹ Illinois, Indiana, Michigan, Ohio, and Wisconsin.

² Excluding Alaska and Hawaii.

Grapes: Utilization, 1997-2001

Year	Fresh Market		Processing				Utilized production
	Quantity	Price per ton	Juice		Wine		
			Quantity	Price per ton	Quantity	Price per ton	
	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>
1997	200	900	58,200	268	2,600	800	61,000
1998	400	900	67,500	260	2,500	775	70,400
1999	500	800	71,500	260	2,900	700	74,900
2000	500	800	83,600	258	3,100	825	87,200
2001	300	800	26,000	255	2,200	940	28,500

Grapes: Processed by variety, 1997-2001

Year	Concord	Niagara	Other
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
1997	45,200	13,400	2,600
1998	53,800	13,700	2,500
1999	57,300	14,400	2,900
2000	64,500	19,100	3,100
2001	19,000	7,000	2,200

Peaches: Utilization and value, 1998-2001

Year	Fresh Market			Processing		
	Production	Price per pound	Value of production	Production	Price per ton	Value of production
	<i>Million lbs</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1998	31.5	0.315	9,923	11.0	295	1,623
1999	11.0	0.320	3,520	12.0	320	1,920
2000	29.5	0.280	8,260	16.0	385	3,080
2001	27.0	0.375	10,125	15.0	317	2,378

Plums: Utilization and value, 1997-2001

Year	Fresh Market			Processing		
	Production	Price per Ton ¹	Value of production ¹	Production	Price per ton ¹	Value of production ¹
	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1997	1,500			2,500		
1998	1,200	390	468	2,400	255	612
1999	1,100	440	484	2,650	240	636
2000	1,250	270	338	2,050	255	523
2001	1,800	442	796	1,800	274	493

¹ Not available prior to 1998.

Strawberries: Acres, production and value, 1997-2001

Year	Total	Harvested	Yield	Production	Price per cwt	Value of production
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1997	1,600	1,500	65	98	75.60	7,411
1998	1,500	1,400	68	95	74.60	7,089
1999	1,400	1,400	64	90	71.20	6,412
2000	1,200	1,200	69	83	74.00	6,145
2001	1,000	1,000	58	58	94.50	5,482

Strawberries: Utilization and value, 1997-2001

Year	Fresh Market			Processing		
	Production	Price per cwt	Value of production	Production	Price per cwt	Value of production
	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
1997	87	80.00	6,960	11	41.00	451
1998	82	79.00	6,478	13	47.00	611
1999	71	78.00	5,538	19	46.00	874
2000	66	81.00	5,346	17	47.00	799
2001	52	100.00	5,200	6	47.00	282

Refrigerated warehouses: Number and capacity, October 1, 2001

Type	Number	Usable freezer space	Usable cooler space	Controlled atmosphere
		<i>1,000 cu ft</i>	<i>1,000 cu ft</i>	<i>1,000 bushels</i>
Apple	181		29,742	7,537
General-public	25	47,423	7,783	
General-private and semi-private	22	12,446	6,240	

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
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	
Other counties	17	60	170					
Northwest ³	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	
West Central ³	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
Southwest ³	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	
East ³	456	3,700	60	70	455	113	220	30
Michigan	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 ¹	All fruit	
							2001	1998 ²
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
Other counties			150			60	440	370
Northwest	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
West Central	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
Southwest	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
East	85	210	15	2	565		5,525	6,630
Michigan	850	460	250	110	1,050		127,920	140,735

¹ Fruits combined to avoid disclosing data for individual operations.

² Includes apricots, excludes cranberries.

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