

MICHIGAN VEGETABLE SURVEY 1998-99

Table 1._Principal vegetables: Harvested and planted acres

Vegetable	1995			1998		
	Total planted	Harvested for processing	Harvested for fresh market	Total planted	Harvested for processing	Harvested for fresh market
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Asparagus	17,500	14,600	2,400	17,500	14,200	2,800
Beans, snap	23,800	20,500	1,700	23,700	21,000	2,100
Cabbage	2,100	300	1,700	2,250	450	1,700
Cantaloups	900	0	850	800	0	750
Carrots	7,900	1,600	5,700	6,400	1,600	4,600
Cauliflower	700	150	500	400	0	400
Celery	2,700	700	1,800	2,300	400	1,800
Corn, sweet	18,000	4,100	11,500	11,000	0	10,000
Cucumbers	33,900	26,000	5,700	34,000	26,000	6,500
Onions, dry	6,500	0	6,400	4,500	0	4,200
Peas, green	1,700	1,500	50	1,765	1,700	50
Peppers, bell	2,200	350	1,750	1,900	250	1,550
Peppers, other	1,400	1,200	150	775	580	140
Potatoes	55,000	31,500	20,400	47,000	29,700	13,850
Pumpkins	3,500	0	3,000	4,100	0	3,800
Radishes	3,300	0	3,000	2,700	0	2,500
Squash, summer	1,900	600	1,200	2,250	900	1,300
Squash, winter	3,100	1,000	2,000	2,900	900	1,800
Tomatoes	7,200	4,500	2,400	5,100	2,500	2,300
Other ¹	3,900	220	3,280	3,800	0	3,600
State total	197,200	108,820	75,480	175,140	100,180	65,740

¹ See Table 2.

Table 2._Other miscellaneous vegetables: Number of farms, acres, yield, and production

Vegetable	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Beets, red	42	150	150	19,000	2,850
Broccoli	60	220	210	9,500	1,995
Eggplant	50	200	190	40,000	7,600
Greens ¹	35	570	550	13,500	7,425
Lettuce, head	10	270	230	40,000	9,200
Lettuce, others	29	290	280	25,000	7,000
Onions, green	26	310	300	27,000	8,100
Parsnips	13	450	430	14,500	6,235
Turnips	23	700	650	9,000	5,850
Watermelons	75	270	260	35,000	9,100
Other ²	60	370	350	--	--
State total	--	3,800	3,600	--	--

¹ Includes collard, kale, mustard, and turnip greens.

² Includes Brussel sprouts, cabbage, celery, Chinese cabbage, cilantro, dill, endive, escarole, garlic, honey dew, leeks, lima beans, okra, parsley, rhubarb, spinach, sweet potatoes, Swiss chard, and watercress,.

Table 3._Principal vegetables: Number of farms and harvested acres

County and district	Farms Number	Processing Acres	Fresh market Acres	Total Acres
Delta	12	80	1,070	1,150
Dickinson	5	50	340	390
Marquette	4	100	320	420
Other counties	34	50	370	420
Upper Peninsula (1)	55	280	2,100	2,380
Grand Traverse	31	890	110	1,000
Kalkaska	6	700	700	1,400
Manistee	22	775	225	1,000
Wexford	4	340	10	350
Other counties	52	515	1,835	2,350
Northwest (2)	115	3,220	2,880	6,100
Alpena	11	0	800	800
Presque Isle	17	150	1,700	1,850
Other counties	22	0	350	350
Northeast (3)	50	150	2,850	3,000
Mason	65	4,350	350	4,700
Muskegon	32	2,450	650	3,100
Newaygo	40	800	4,850	5,650
Oceana	180	12,000	2,100	14,100
Gratiot	32	4,050	700	4,750
Isabella	13	1,420	750	2,170
Mecosta	23	3,320	280	3,600
Midland	10	480	70	550
Montcalm	47	16,200	1,600	17,800
Other counties	13	130	150	280
West Central (4) and Central (5)	455	45,200	11,500	56,700
Arenac	24	2,000	200	2,200
Bay	67	1,950	4,250	6,200
Saginaw	35	3,090	510	3,600
Tuscola	27	4,850	550	5,400
Other counties	27	1,600	1,000	2,600

East Central (6)	180	13,490	6,510	20,000
Allegan	70	3,250	4,600	7,850
Berrien	160	700	5,100	5,800
Cass	30	2,050	1,100	3,150
Kalamazoo	35	1,750	400	2,150
Kent	65	1,050	2,400	3,450
Ottawa	90	200	3,200	3,400
Van Buren	85	5,800	2,700	8,500
Southwest (7)	535	14,800	19,500	34,300
Branch	22	450	650	1,100
Calhoun	22	0	1,000	1,000
Clinton	27	150	470	620
Eaton	22	150	1,050	1,200
Ingham	21	110	460	570
Ionia	15	260	500	760
Jackson	26	30	720	750
St. Joseph	55	16,500	800	17,300
Other counties	40	50	250	300
South Central (8)	250	17,700	5,900	23,600
Genesee	35	700	700	1,400
Lapeer	40	30	3,050	3,080
Lenawee	40	2,700	600	3,300
Livingston	25	0	650	650
Macomb	70	10	3,390	3,400
Monroe	55	1,900	1,950	3,850
Oakland	20	0	460	460
St. Clair	30	0	800	800
Washtenaw	40	0	1,700	1,700
Wayne	25	0	1,200	1,200
Southeast (9)	380	5,340	14,500	19,840
State total	2,020	100,180	65,740	165,920

Table 4._Vegetables (all): Number of farms and planted acres, by size group

Size group	Farms	Percent of total	Planted acres	Percent of total
1 to 10 acres	725	35.9	3,640	2.1
11 to 25 acres	380	18.8	6,500	3.7
26 to 50 acres	270	13.4	9,500	5.4
51 to 100 acres	260	12.9	19,500	11.1
101 to 250 acres	230	11.4	36,000	20.6
251 to 500 acres	94	4.7	33,000	18.8
501 acres or more	61	3.0	67,000	38.3
State total	2,020		175,140	

Table 5._Vegetables (fresh market): Number of farms and harvested acres, by size group

Size group	Farms	Percent of total	Harvested acres	Percent of total
1 to 10 acres	700	47.0	3,140	4.8
11 to 25 acres	300	20.1	4,600	7.0
26 to 50 acres	165	11.1	5,100	7.8
51 to 100 acres	150	10.1	10,200	15.5
101 to 250 acres	120	8.1	17,000	25.9
251 to 500 acres	39	2.6	11,700	17.8
501 acres or more	16	1.1	14,000	21.3
State total	1,490		65,740	

Table 6._Vegetables (processing): Number of farms and harvested acres, by size group

Size group	Farms	Percent of total	Harvested acres	Percent of total
1 to 10 acres	100	15.2	330	0.3
11 to 25 acres	100	15.2	1,550	1.5
26 to 50 acres	130	19.7	3,900	3.9
51 to 100 acres	115	17.4	8,500	8.5
101 to 250 acres	115	17.4	17,100	17.1
251 to 500 acres	55	8.3	19,800	19.8
501 acres or more	45	6.8	49,000	48.9
State total	660		100,180	

Yield distributions Table 7., below, shows percentiles and means for yields. A percentile of 25 means that 25 percent of the reported yields were lower than that value of pounds per acre. The mean yield is calculated as a weighted yield with acres as the weights. For most crops and utilizations the mean is higher than the median, the 50th percentile. These values indicate that large producers obtained higher yields than small growers.

Table 7._Vegetables: Yield distributions, by commodity						
Commodity	Yield (<i>pounds per acre</i>)					
	Percentile					
	10	25	50 (median)	75	90	Mean
Asparagus, fresh	150	500	900	1,500	2,000	1,300
Asparagus, processed	600	1,000	1,400	2,000	2,500	1,700
Beans, snap, fresh	700	2,000	3,000	5,400	8,200	6,000
Beans, snap, processed	4,000	5,300	7,000	8,000	10,000	7,800
Cabbage, fresh	1,600	6,400	15,000	26,000	38,000	26,000
Cantaloups, fresh	1,000	3,700	9,000	15,000	25,000	15,000
Carrots, fresh	7,000	15,000	22,000	36,000	46,000	29,000
Celery, fresh	28,000	38,000	47,000	51,000	57,000	44,000
Corn, sweet, fresh	1,000	2,000	4,500	7,500	10,000	7,500
Cucumbers, fresh	1,200	4,000	10,000	19,000	29,000	19,000
Cucumbers, processed	5,000	7,500	13,000	20,000	32,000	10,000
Onions, dry, fresh	2,500	11,000	20,000	30,000	40,000	26,000
Peppers, bell, fresh	800	2,800	6,200	14,000	23,000	18,400
Potatoes, fresh	9,000	15,000	20,000	30,000	33,000	26,500
Potatoes, processed	26,000	30,000	32,000	35,000	38,000	34,500
Pumpkins, fresh	3,000	6,000	10,000	18,000	20,000	14,000
Squash, summer, fresh	1,400	3,600	12,000	19,000	30,000	17,000
Squash, winter, fresh	2,000	3,900	8,400	14,000	20,000	14,000
Tomatoes, fresh	2,000	4,500	10,000	25,000	42,000	21,000

Table 8._Asparagus: Number of farms and acres planted

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Manistee	14	400
Other counties	10	150
Northwest (2)	24	550
Mason	45	2,300
Oceana	145	10,200
Other counties	15	400
West Central (4)	205	12,900
Mecosta	11	370
Other counties	6	80
Central (5)	17	450
Berrien	21	350
Ottawa	11	300
Van Buren	35	1,450
Other counties	28	1,100
Southwest (7)	95	3,200
St. Joseph	5	140
Other counties	16	120
South Central (8)	21	260
Southeast (9)	35	100
Other districts	13	40
State total	410	17,500

Table 9._Asparagus (fresh market): Harvested acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
West Central (4)	1,100	1,650	1,815
Central (5)	200	700	140
Southwest (7)	1,050	1,250	1,312
South Central (8)	150	850	128
Southeast (9)	95	850	81
Other districts	205	800	164
State total	2,800	1,300	3,640

Table 10._Asparagus (processing): Harvested acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Northwest (2)	350	1,100	385
West Central (4)	11,450	1,800	20,635
Southwest (7)	2,050	1,350	2,770
Other districts	350	1,000	350
State total	14,200	1,700	24,140

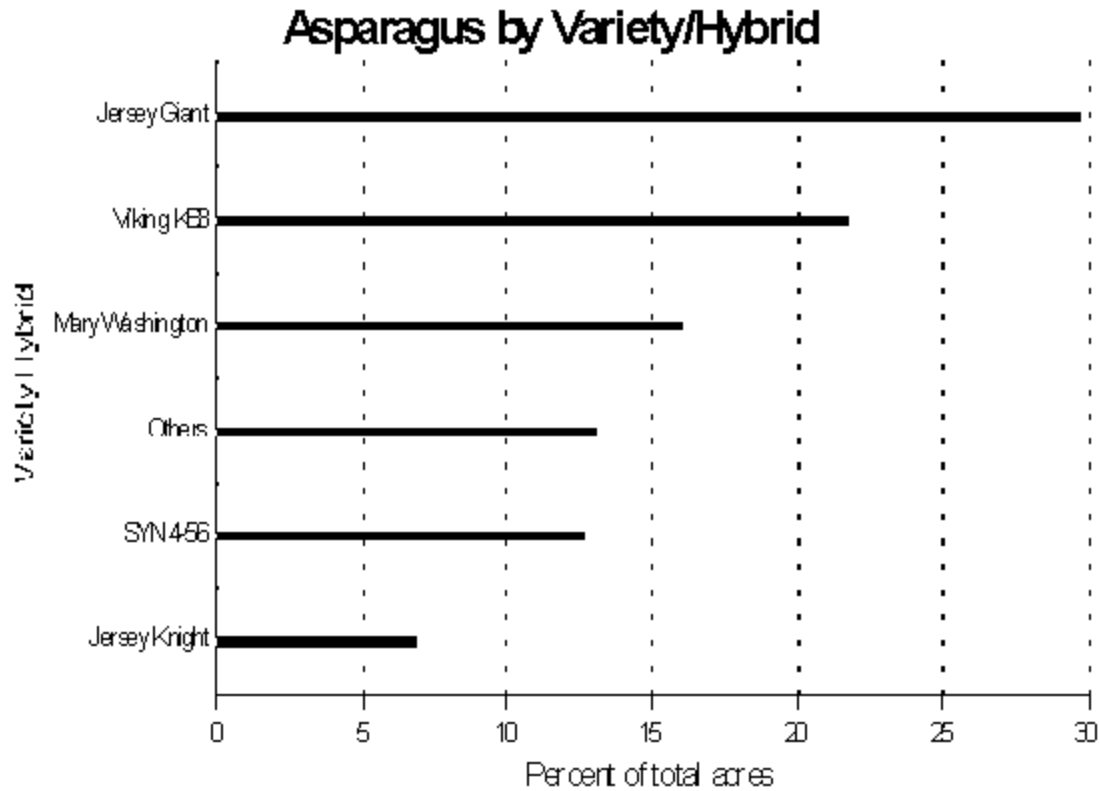


Table 11._Asparagus: Acres by variety and year of planting

Variety or hybrid	Before 1984	1984-88	1989-93	1994-95	1996	1997	1998	Total
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Apollo	0	0	5	25	35	5	5	75
Franklin	20	10	15	85	30	5	35	200
Centennial	0	170	70	0	0	10	0	250
Jersey Gem	0	50	85	50	50	5	10	250
Jersey General	40	25	120	200	130	5	5	525
Jersey Giant	165	470	1,030	870	380	580	505	4,000
Jersey Knight	0	30	240	310	80	50	90	800
Mary Washington	1,580	275	170	60	25	0	90	2,200
SYN 4-56	80	830	730	80	90	15	25	1,850
Viking KB3	1,260	960	155	15	10	0	0	2,400
Other varieties	55	180	80	5	10	15	5	350
West Central (4)	3,200	3,000	2,700	1,700	840	690	770	12,900
Apollo	0	0	0	15	5	5	0	25

Franklin	0	0	0	0	0	0	0	0
Centennial	0	0	50	0	0	0	0	50
Jersey Gem	0	5	65	5	5	10	10	100
Jersey General	0	25	155	5	20	5	15	225
Jersey Giant	35	275	300	260	95	110	125	1,200
Jersey Knight	0	10	110	10	120	20	130	400
Mary Washington	410	85	100	0	0	5	0	600
SYN 4-56	10	25	290	10	15	0	0	350
Viking KB3	425	670	220	80	0	5	0	1,400
Other varieties	20	5	210	15	0	0	0	250
Other districts	900	1,100	1,500	400	260	160	280	4,600
Apollo	0	0	5	40	40	10	5	100
Franklin	20	10	15	85	30	5	35	200
Centennial	0	170	120	0	0	10	0	300
Jersey Gem	0	55	150	55	55	15	20	350
Jersey General	40	50	275	205	150	10	20	750
Jersey Giant	200	745	1,330	1,130	475	690	630	5,200
Jersey Knight	0	40	350	320	200	70	220	1,200
Mary Washington	1,990	360	270	60	25	5	90	2,800
SYN 4-56	90	855	1,020	90	105	15	25	2,200
Viking KB3	1,685	1,630	375	95	10	5	0	3,800
Other varieties	75	185	290	20	10	15	5	600
State total	4,100	4,100	4,200	2,100	1,100	850	1,050	17,500

Table 12. Beans, snap (processing): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Grand Traverse	13	1,150			
Other counties	5	850			
Northwest (2)	18	2,000	1,900	5,950	11,305
Mason	16	2,200			
Oceana	13	1,450			
Other counties	5	450			

West Central (4)	34	4,100	3,950	7,400	29,230
Montcalm	13	2,650			
Other counties	7	1,250			
Central (5)	20	3,900	3,800	6,900	26,230
Kalamazoo	10	1,200			
Other counties	6	1,700			
Southwest (7)	16	2,900	2,850	7,800	22,235
St. Joseph	24	8,500			
Other counties	2	100			
South Central (8)	26	8,600	8,500	8,800	74,800
State total	114	21,500	21,000	7,800	163,800

Table 13._Beans, snap (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Southwest (7)	48	800	770	7,200	5,544
Branch	5	300			
Other counties	26	100			
South Central (8)	31	400	380	8,200	3,116
Macomb	18	309			
Monroe	8	108			
Other counties	30	475			
Southeast (9)	56	830	800	4,400	3,520
Other districts	47	170	150	2,800	420
State total	182	2,200	2,100	6,000	12,600

>Table 14._Cabbage (processing): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
State total	5	450	450	40,000	18,000

Table 15._Cabbage (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Bay	20	115			
Other counties	14	95			
East Central (6)	34	210	200	30,500	6,100
Kent and Ottawa	16	500			
Other counties	20	20			
Southwest (7)	36	520	500	23,000	11,500
Macomb	29	260			
Monroe	18	260			
Other counties	27	220			
Southeast (9)	74	740	700	26,000	18,200
Other districts	55	330	300	28,000	8,400
State total	199	1,800	1,700	26,000	44,200

>Table 16._Cantaloups: Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Bay	30	130			
Other counties	15	20			
East Central (6)	45	150	140	10,000	1,400
Berrien	27	80			
Ottawa	13	35			
Van Buren	8	30			
Other counties	25	35			

Southwest (7)	73	180	165	14,000	2,310
South Central (8)	40	90	85	15,000	1,270
Lenawee	6	50			
Livingston	8	40			
Macomb	16	45			
Monroe	14	125			
Other counties	45	90			
Southeast (9)	89	350	330	18,000	5,940
Other districts	28	30	30	11,000	330
State total	275	800	750	15,000	11,250

>Table 17._Carrots (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Newaygo	11	1,300			
Muskegon and Oceana	9	400			
West Central (4)	20	1,700	1,650	21,000	34,675
Montcalm	4	680			
Other counties	3	170			
Central (5)	7	850	800	37,000	29,600
South Central (8)	11	650	650	29,000	18,850
Lapeer	14	940			
Other counties	3	10			
Southeast (9)	17	950	950	37,000	35,150
Other districts	33	550	550	27,500	15,125
State total	88	4,700	4,600	29,000	133,400

Table 18._Carrots (processing): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Oceana	8	650			
Other counties	4	150			

West Central (4)	12	800	750	38,000	28,500
Other districts	8	900	850	38,000	32,300
State total	20	1,700	1,600	38,000	60,800

>Table 19. _Cauliflower: Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Bay	8	70			
Other counties	17	30			
East Central (6)	25	100	100	17,000	1,700
Allegan	6	135			
Other counties	16	55			
Southwest (7)	22	190	190	13,400	2,540
Macomb	14	50			
Other counties	19	60			
Southeast (9)	33	110	110	16,000	1,760
State total	80	400	400	15,000	6,000

>Table 20. _Celery: Number of farms and planted acres

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Muskegon	4	310
Newaygo and Oceana	3	200
West Central (4)	6	510
Allegan	3	340
Kent	5	270
Ottawa	7	390
Van Buren	3	220
Other counties	2	160
Southwest (7)	20	1,380
Southeast (9)	3	290
Other districts	2	120
State total	31	2,300

>Table 21._Celery (fresh market): Harvested acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Southwest (7)	1,150	46,000	52,900
Other districts	650	40,500	26,300
State total	1,800	44,000	79,200

>Table 22._Celery (processing): Harvested acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
West Central (4)	240	69,000	16,560
Southwest (7)	160	54,000	8,640
State total	400	63,000	25,200

>Table 23._Corn, sweet (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Antrim	17	110			
Emmet	12	110			
Other counties	51	300			
Northwest (2)	80	520	460	6,800	3,128
Newaygo	18	440			
Other counties	32	300			
West Central (4)	50	740	590	3,900	2,301
Bay	35	410			
Saginaw	20	270			
Other counties	34	140			
East Central (6)	89	820	770	6,500	5,005
Allegan	24	120			
Berrien	56	650			

Cass	18	170			
Kalamazoo	25	440			
Kent	34	700			
Ottawa	30	230			
Van Buren	31	240			
Southwest (7)	218	2,550	2,350	8,000	18,800
Clinton	15	190			
Jackson	23	410			
St. Joseph	13	160			
Other counties	94	640			
South Central (8)	145	1,400	1,300	6,000	7,800
Genesee	29	300			
Lapeer	22	340			
Lenawee	9	170			
Livingston	22	170			
Macomb	38	1,150			
Monroe	35	520			
Oakland	15	290			
St. Clair	26	240			
Washtenaw	24	410			
Wayne	9	910			
Southeast (9)	229	4,500	4,100	8,600	35,260
Other districts	99	470	430	6,300	2,706
State total	910	11,000	10,000	7,500	75,000

>Table 24. Cucumbers (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Newaygo	7	350			
Oceana	5	370			
Other counties	3	80			
West Central (4)	15	800	750	22,000	16,530
Allegan and Cass	12	2,400			

Berrien and Van Buren	40	2,800			
Other counties	15	200			
Southwest (7)	67	5,400	5,000	19,000	95,000
Macomb	22	80			
Monroe	12	90			
Other counties	41	60			
Southeast (9)	75	230	220	25,500	5,610
Other districts	93	570	530	12,000	6,360
State total	250	7,000	6,500	19,000	123,500

Table 25._Cucumbers (processing): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Manistee	7	450			
Other counties	3	150			
Northwest (2)	10	600	550	21,000	11,550
Oceana	14	700			
Other counties	4	1,800			
West Central (4)	18	2,500	2,400	11,500	27,600
Gratiot	11	3,000			
Midland	5	500			
Other counties	6	1,100			
Central (5)	22	4,600	4,400	10,000	44,000
Arenac	12	1,800			
Bay	10	850			
Saginaw	8	2,300			
Sanilac	5	650			
Tuscola	9	1,400			
East Central (6)	44	7,000	6,800	9,500	64,650
Allegan	15	2,400			
Berrien	13	400			
Kent	8	500			
Van Buren	6	4,700			

Other counties	4	300			
Southwest (7)	46	8,300	8,000	8,400	67,200
St. Joseph	8	2,400			
Other counties	2	100			
South Central (8)	10	2,500	2,400	11,500	27,600
Lenawee	7	1,300			
Other counties	3	200			
Southeast (9)	10	1,500	1,450	12,000	17,400
State total	160	27,000	26,000	10,000	260,000

>Table 26. _Peppermint: Number of farms, acres, yield, and production

County and district	Farms	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>Pounds</i>
Clinton	7	400		
Other counties	7	600		
State total	14	1,000	45	45,000

>Table 27. _Spearment: Number of farms, acres, yield, and production

County and district	Farms	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>Pounds</i>
Clinton	7	1,500		
Other counties	5	200		
State total	12	1,700	42	71,000

>Table 28. _Onions, dry: Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Newaygo	11	1,350			
Other counties	2	150			
West Central (4)	13	1,500	1,350	22,000	29,750
Allegan	5	670			

Ottawa	10	520			
Van Buren	3	120			
Other counties	5	90			
Southwest (7)	23	1,400	1,320	31,000	40,950
Eaton	3	380			
Ingham	5	280			
Other counties	14	540			
South Central (8)	22	1,200	1,150	24,000	27,600
Lapeer	4	190			
Other counties	18	60			
Southeast (9)	22	250	240	32,000	7,680
Other districts	23	150	140	23,000	3,220
State total	103	4,500	4,200	26,000	109,200

>Table 29. Peas, green (processing): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Montcalm	8	1,400			
Other counties	2	300			
Central (5)	10	1,700	1,700	4,400	6,900
State total	10	1,700	1,700	4,400	6,900

Table 30. Peas, green (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
State total	40	65	50	2,800	140

>Table 31. Peppers, bell: Number of farms and planted acres

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Newaygo and Oceana	10	430

Other counties	5	20
West Central (4)	15	450
Gratiot	5	240
Other counties	8	10
Central (5)	13	250
Bay	26	150
Other counties	18	20
East Central (6)	44	170
Berrien	33	270
Kent	13	80
Ottawa	16	85
Other counties	21	185
Southwest (7)	83	620
Macomb	27	70
Monroe	16	130
Other counties	55	160
Southeast (9)	98	360
Other districts	42	50
State total	295	1,900

>Table 32. Peppers, bell (processing): Acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
State total	250	30,000	7,500

>Table 33. Peppers, bell (fresh market): Acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
West Central (4)	390	23,000	8,970
East Central (6)	160	15,000	2,400
Southwest (7)	590	18,000	10,620
Southeast (9)	300	17,000	5,100

Other districts	110	13,000	1,430
State total	1,550	18,400	28,520

>Table 34. Peppers, other: Number of farms and planted acres

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
West Central (4)	3	30
Gratiot	3	260
Other counties	3	5
Central (5)	6	265
Bay	12	60
Other counties	4	5
East Central (6)	16	65
Berrien	9	35
Other counties	7	10
Southwest (7)	16	45
South Central (8)	9	10
Lenawee	4	255
Other counties	20	105
Southeast (9)	24	360
State total	74	775

>Table 35. Peppers, other (processing): Acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
State total	580	19,000	11,000

>Table 36. Peppers, other (fresh market): Acres, yield, and production

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Southwest (7)	40	25,000	1,000

Southeast (9)	50	17,000	850
Other districts	50	19,000	950
State total	140	20,000	2,800

>Table 37. Potatoes: Number of farms, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Delta	14	1,100			
Dickinson	10	700			
Marquette	3	500			
Other counties	21	1,200			
Upper Peninsula (1)	48	3,500	3,450	23,000	79,350
Kalkaska	3	1,100			
Other counties	40	2,400			
Northwest (2) and West Central (4)	43	3,500	3,500	29,000	101,500
Presque Isle	18	2,400			
Other counties	8	900			
Northeast (3)	26	3,300	3,250	26,000	84,500
Montcalm	27	12,000			
Other counties	12	3,000			
Central (5)	39	15,000	14,900	35,000	521,500
Bay	37	4,200			
Saginaw	2	900			
Tuscola	6	3,400			
Other counties	13	1,500			
East Central (6)	58	10,000	9,950	28,000	278,600
Allegan	7	600			
Other counties	24	1,400			
Southwest (7)	31	2,000	1,950	36,000	70,200
Eaton	3	500			
St. Joseph	12	4,800			
Other counties	17	1,200			
South Central (8)	32	6,500	6,300	37,000	233,100

Washtenaw	3	400			
Other counties	25	2,800			
Southeast (9)	28	3,200	3,200	30,000	96,000
State total	305	47,000	46,500	31,500	1,465,000

>Table 38._ Potatoes: Acres and production, by utilization

Use	State total planted	State total harvested	State yield	State production
	<i>Acres</i>	<i>Acres</i>	<i>Cwt.</i>	<i>Cwt.</i>
Fresh market	14,000	13,850	265	3,670,000
Chipping	30,000	29,700	345	10,245,000
Other	500	500	285	143,000
Seed	2,500	2,450	240	590,000
State total	47,000	46,500	315	14,648,000

Table 39._ Potatoes: Planted acres

County and district	Planted for fresh market	Planted for chipping	Planted for other purposes	Planted for seed	Total planted
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Upper Peninsula (1)	1,900	200	100	1,300	3,500
Northwest (2) and West Central (4)	2,500	400	100	500	3,500
Northeast (3)	2,400	200	0	700	3,300
Central (5)	800	14,200	0	0	15,000
East Central (6)	4,100	5,900	0	0	10,000
Southwest (7)	50	1,950	0	0	2,000
South Central (8)	700	5,500	300	0	6,500
Southeast (9)	1,550	1,650	0	0	3,200
State total	14,000	30,000	500	2,500	47,000

>Table 40._ Potatoes: Number of farms and acres, by size group

Size group	Farms	Acres
4.9 acres or less	116	200
5 to 24.9 acres	36	500
25 to 99.9 acres	55	3,300
100 to 199.9 acres	47	6,500

200 to 299.9 acres	17	4,100
300 to 499.9 acres	17	6,100
500 to 999.9 acres	8	4,700
1,000 acres or more	9	21,600
State total	305	47,000

>Table 41. Pumpkins: Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Gratiot	5	35			
Isabella	4	250			
Montcalm	6	40			
Other counties	6	35			
Central (5)	21	360	340	15,500	5,270
Bay	24	145			
Saginaw	9	40			
Other counties	9	25			
East Central (6)	42	210	200	13,500	2,700
Allegan	12	80			
Berrien	45	260			
Cass	8	30			
Kalamazoo	15	130			
Kent	22	105			
Ottawa	32	185			
Van Buren	21	160			
Southwest (7)	155	950	870	14,000	12,190
Clinton	13	80			
Eaton	6	50			
Ionia	7	55			
Jackson	18	65			
St. Joseph	4	80			
Other counties	32	120			
South Central (8)	80	450	420	13,500	5,670

Genesee	20	45			
Lapeer	19	145			
Lenawee	6	155			
Livingston	12	55			
Macomb	43	430			
Monroe	20	270			
Oakland	16	140			
St. Clair	10	60			
Washtenaw	17	180			
Wayne	7	170			
Southeast (9)	170	1,650	1,550	14,000	21,700
Upper Peninsula (1)	16	50			
Northwest (2)	20	100			
Northeast (3)	24	80			
West Central (4)	32	250			
Other districts	92	480	420	13,500	5,670
State total	560	4,100	3,800	14,000	53,200

>Table 42. Radishes: Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Southwest (7)	7	1,700	1,670	5,100	8,510
Southeast (9)	7	350	330	7,100	2,340
Central (5) and South Central (8)	7	650	500	3,300	1,650
State total	21	2,700	2,500	5,000	12,500

>Table 43. Squash, summer (processing): Number of operations, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Oceana	13	650			
Other counties	3	250			

West Central (4)	16	900	900		
State total	16	900	900	30,000	27,000

Table 44. _Squash, summer (fresh market): Number of operations, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Oceana	7	160			
Other counties	3	90			
West Central (4)	10	250	240	20,000	4,800
Berrien	38	500			
Van Buren	9	150			
Other counties	17	120			
Southwest (7)	64	770	740	16,500	12,210
Macomb	20	180			
Monroe	8	55			
Other counties	20	40			
Southeast (9)	48	275	265	16,000	4,240
Other districts	49	55	55	15,500	850
State total	171	1,350	1,300	17,000	22,100

>Table 45. _Squash, winter (processing): Number of operations, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Mason and Newaygo	6	400			
Oceana	10	500			
West Central (4)	16	900	850		
Other districts	4	50	50		
State total	20	950	900	29,000	26,100

Table 46. _Squash, winter (fresh market): Number of operations, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
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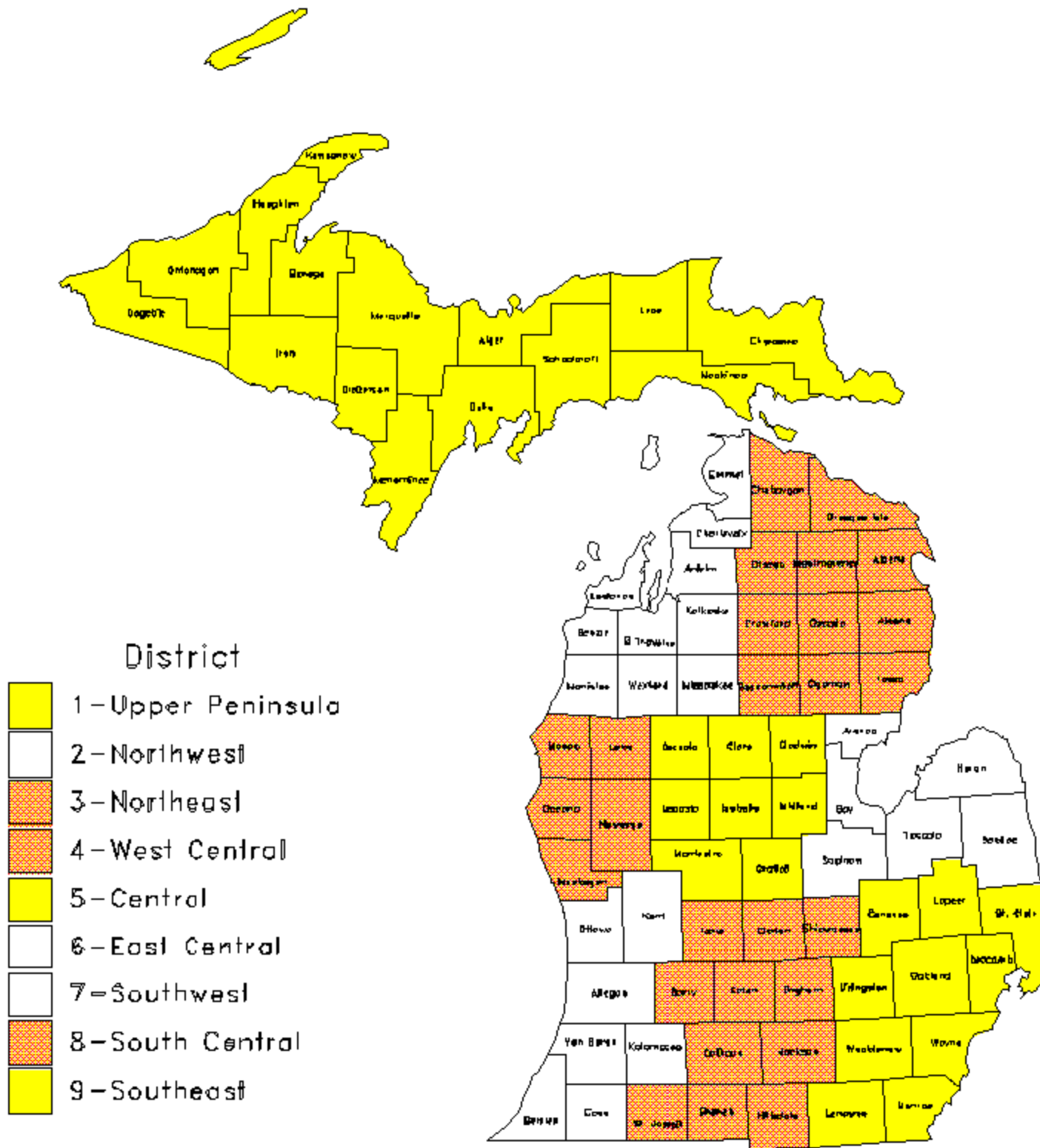
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Gratiot	3	110			
Other counties	7	25			
Central (5)	10	135	125	11,500	1,440
Bay	20	70			
Other counties	6	40			
East Central (6)	26	110	105	15,000	1,575
Berrien	32	510			
Cass	8	60			
Kent	6	190			
Ottawa	12	430			
Other counties	20	60			
Southwest (7)	78	1,250	1,170	14,500	16,985
Lapeer	10	50			
Macomb	30	250			
Other counties	33	60			
Southeast (9)	73	360	310	13,000	4,030
Other districts	50	95	90	13,000	1,170
State total	237	1,950	1,800	14,000	25,200

>Table 47._Tomatoes (processing): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
St. Joseph	4	700			
Other counties	1	150			
South Central (8)	5	850	800	78,000	62,400
Lenawee	5	650			
Monroe	6	1,100			
Southeast (9)	11	1,750	1,700	69,000	117,600
State total	16	2,600	2,500	72,000	180,000

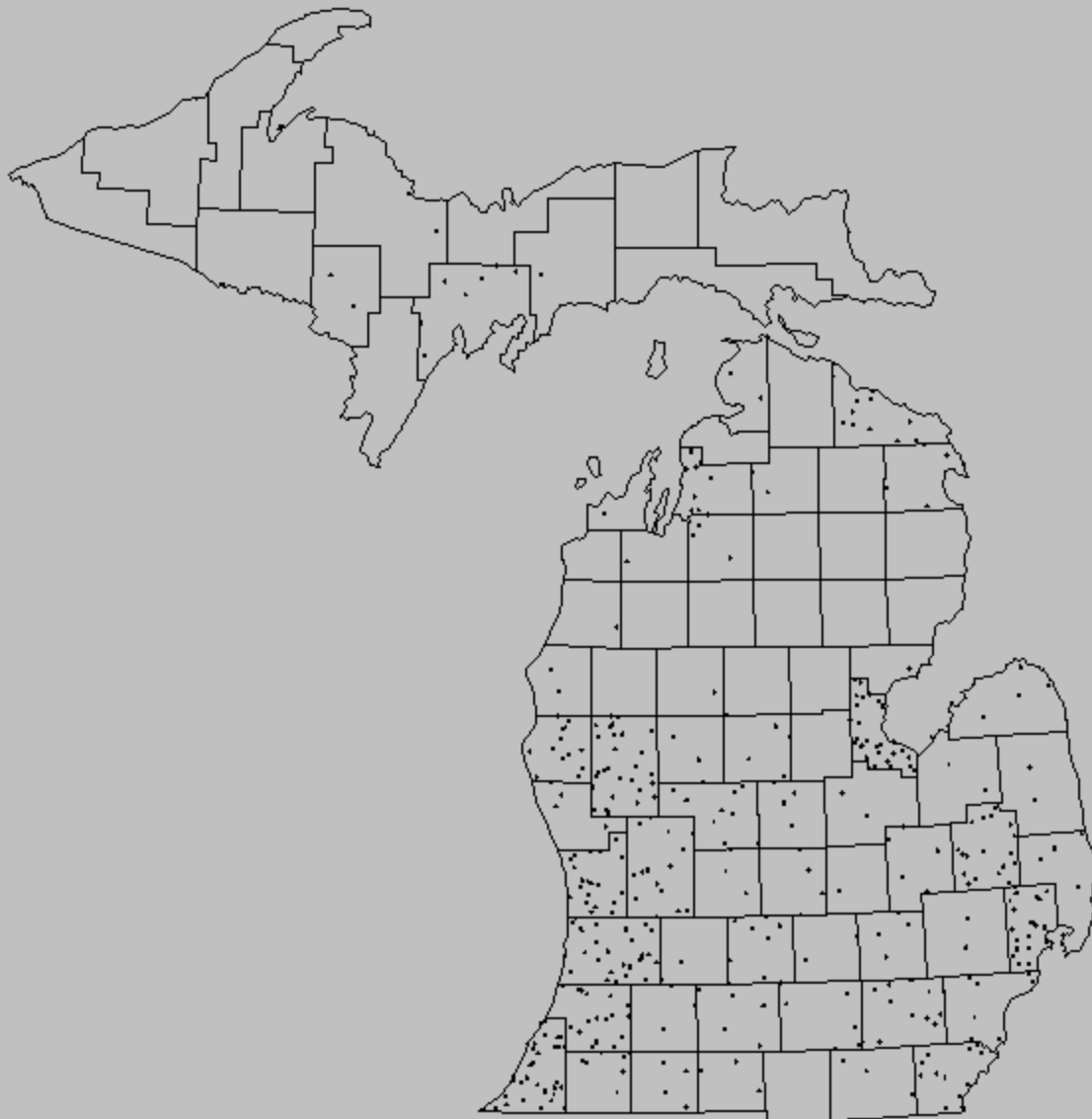
Table 48._Tomatoes (fresh market): Number of farms, acres, yield, and production

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Bay	33	85			
Other counties	25	55			
East Central (6)	58	140	130	20,000	2,600
Berrien	65	1,050			
Other counties	85	450			
Southwest (7)	150	1,500	1,380	24,000	33,120
Calhoun	8	160			
Other counties	60	150			
South Central (8)	68	310	290	16,500	4,780
Macomb	36	110			
Monroe	20	130			
Other counties	100	200			
Southeast (9)	156	440	400	15,000	6,000
Other districts	88	110	100	18,000	1,800
State total	520	2,500	2,300	21,000	48,300



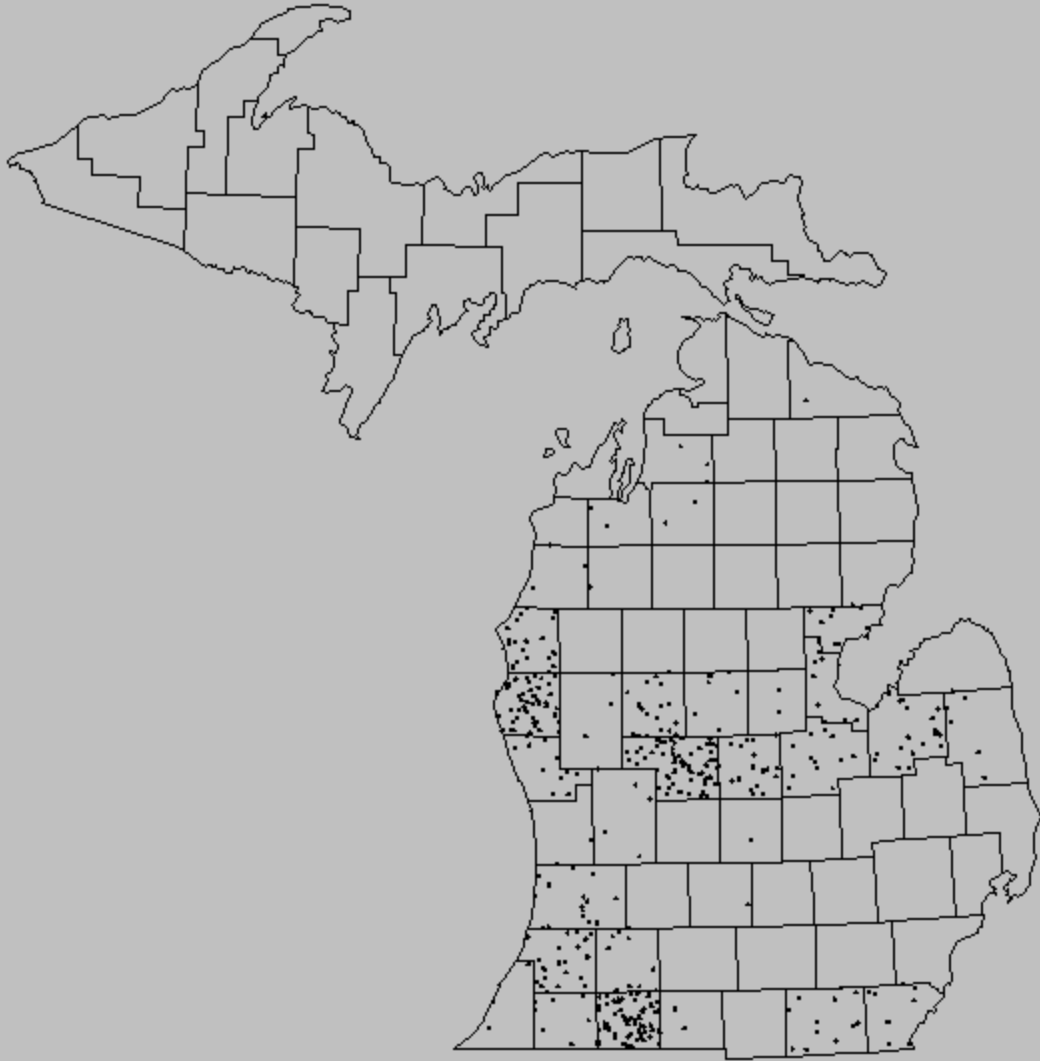
Fresh Market Vegetables

Each dot represents 200 harvested acres

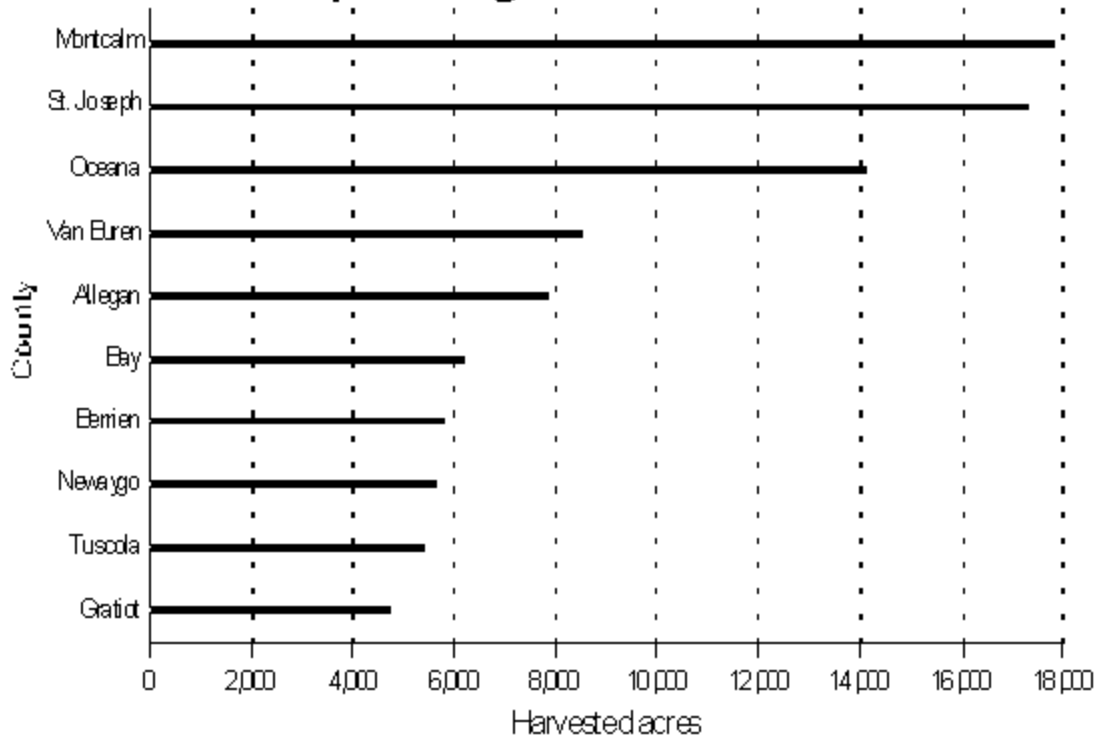


Processing Vegetables

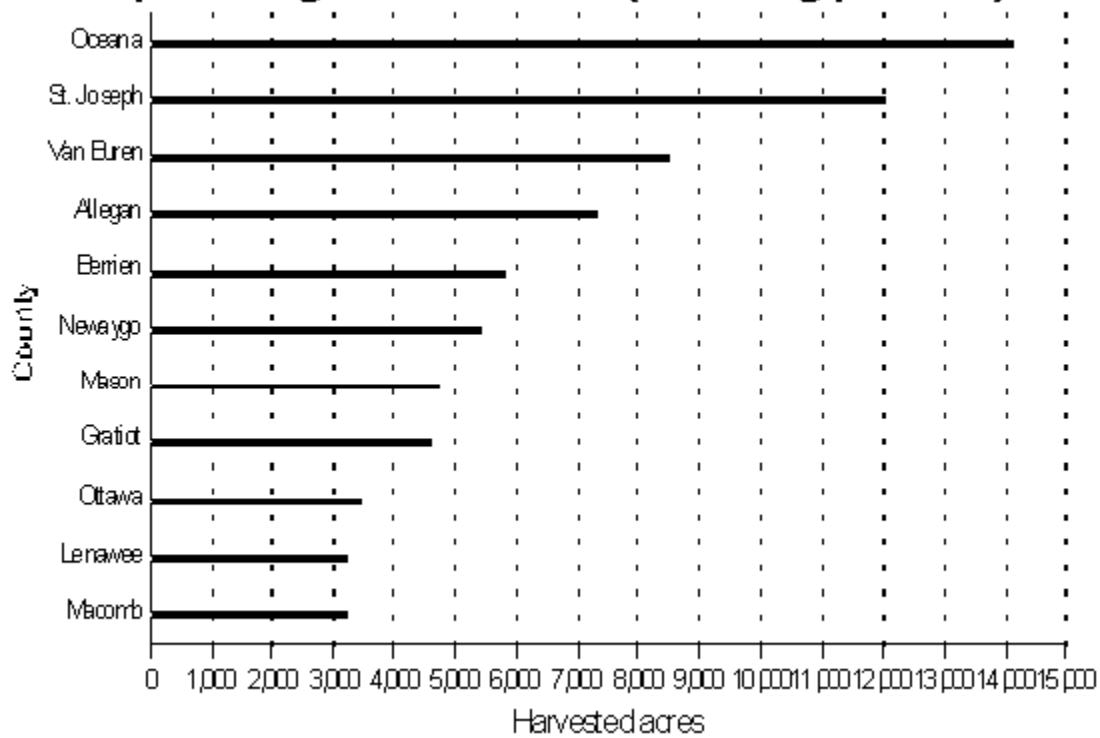
Each dot represents 200 harvested acres



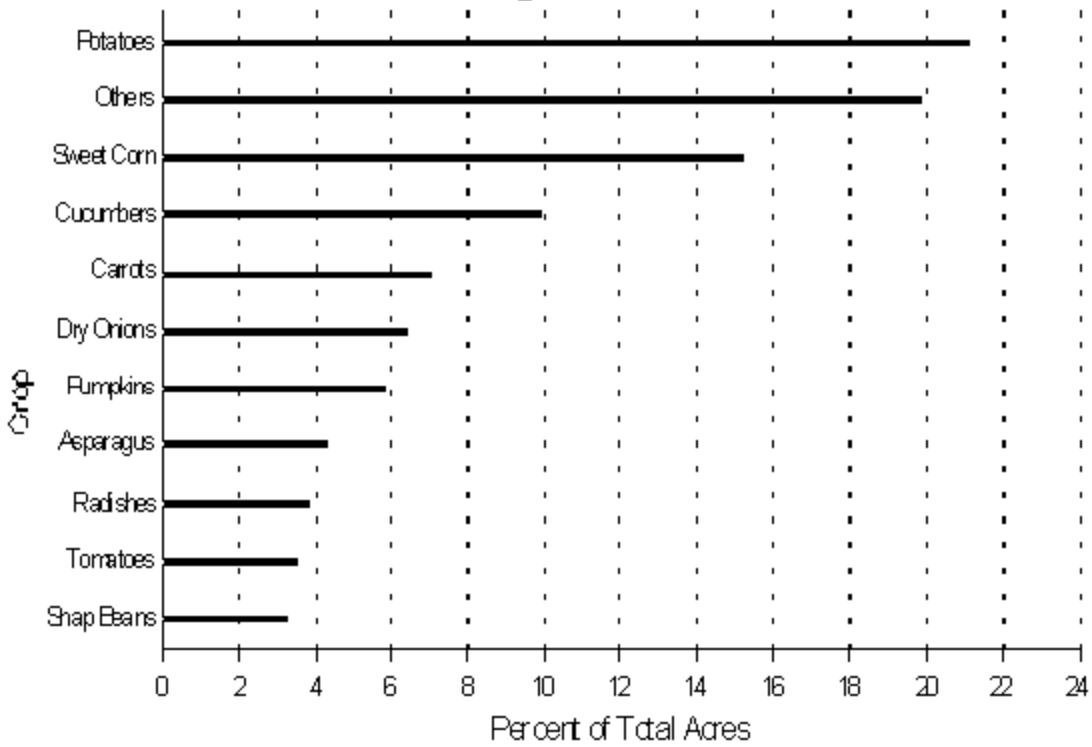
Top Ten Vegetable Counties



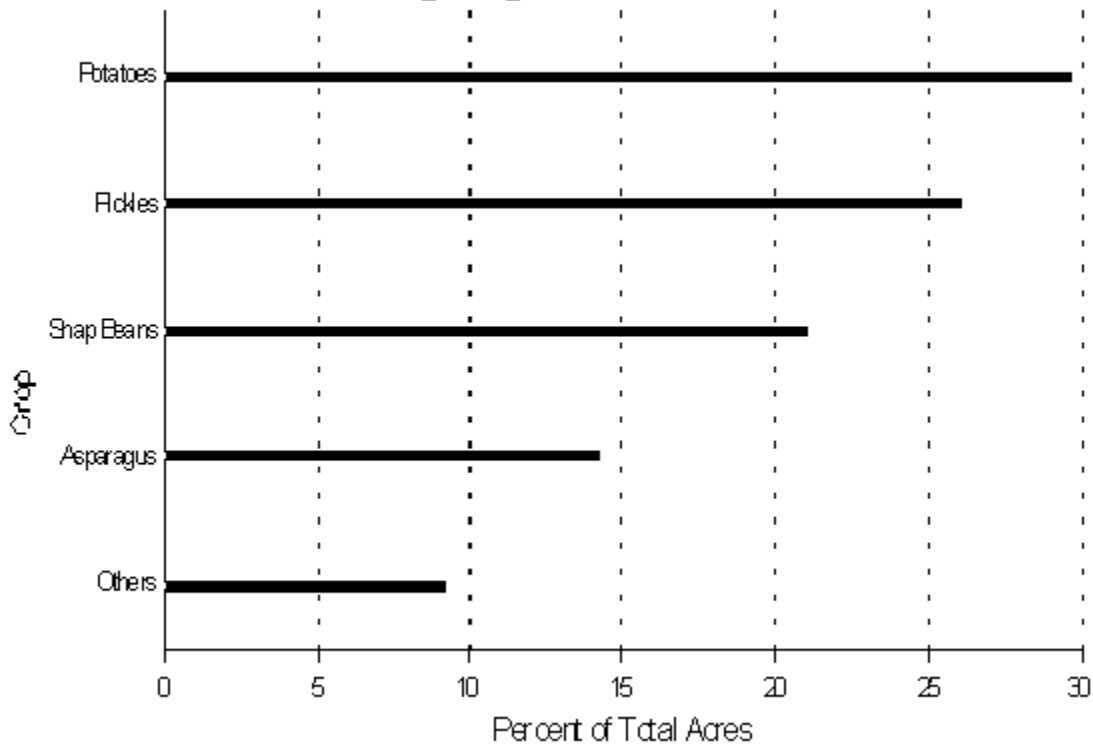
Top Ten Vegetable Counties (excluding potatoes)



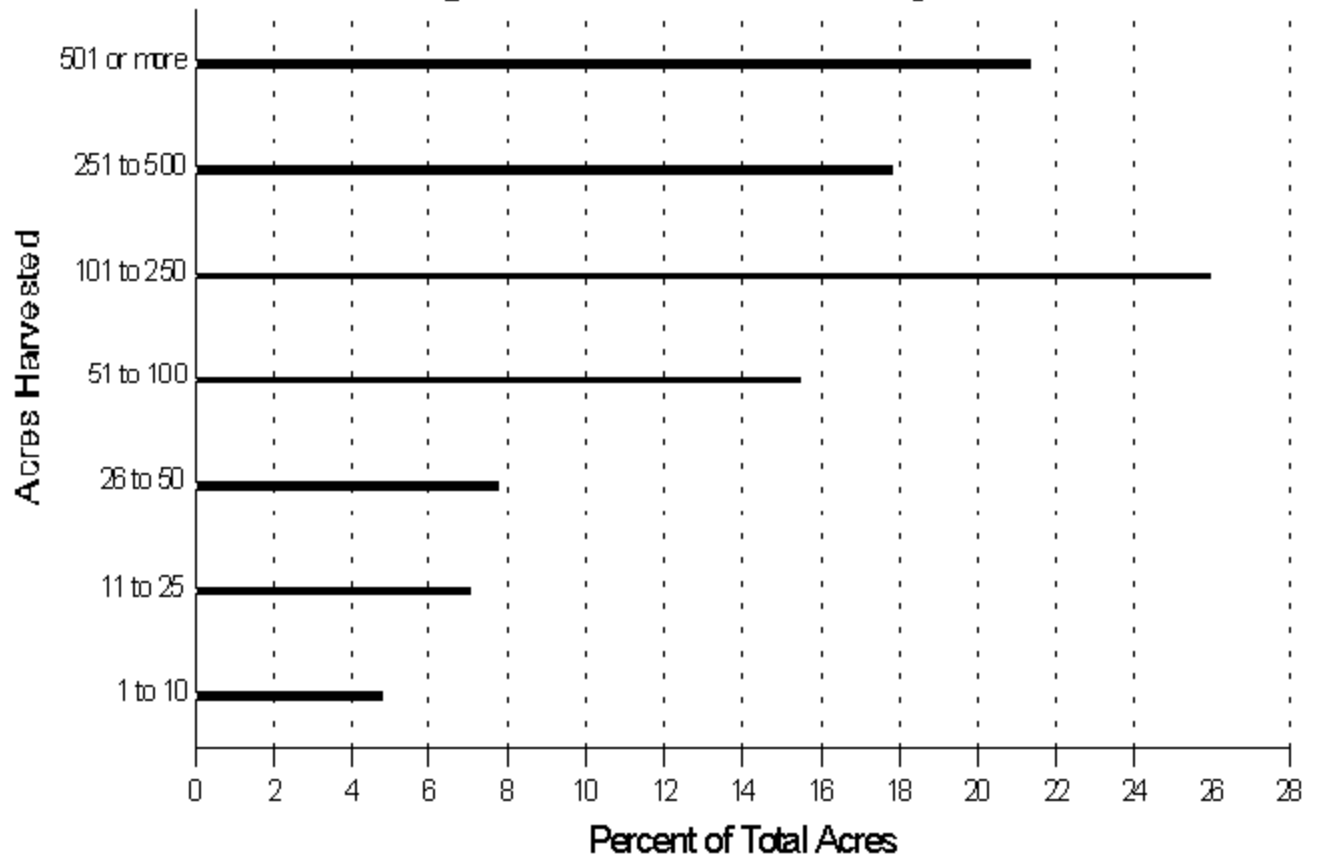
Fresh Market Vegetables Harvested



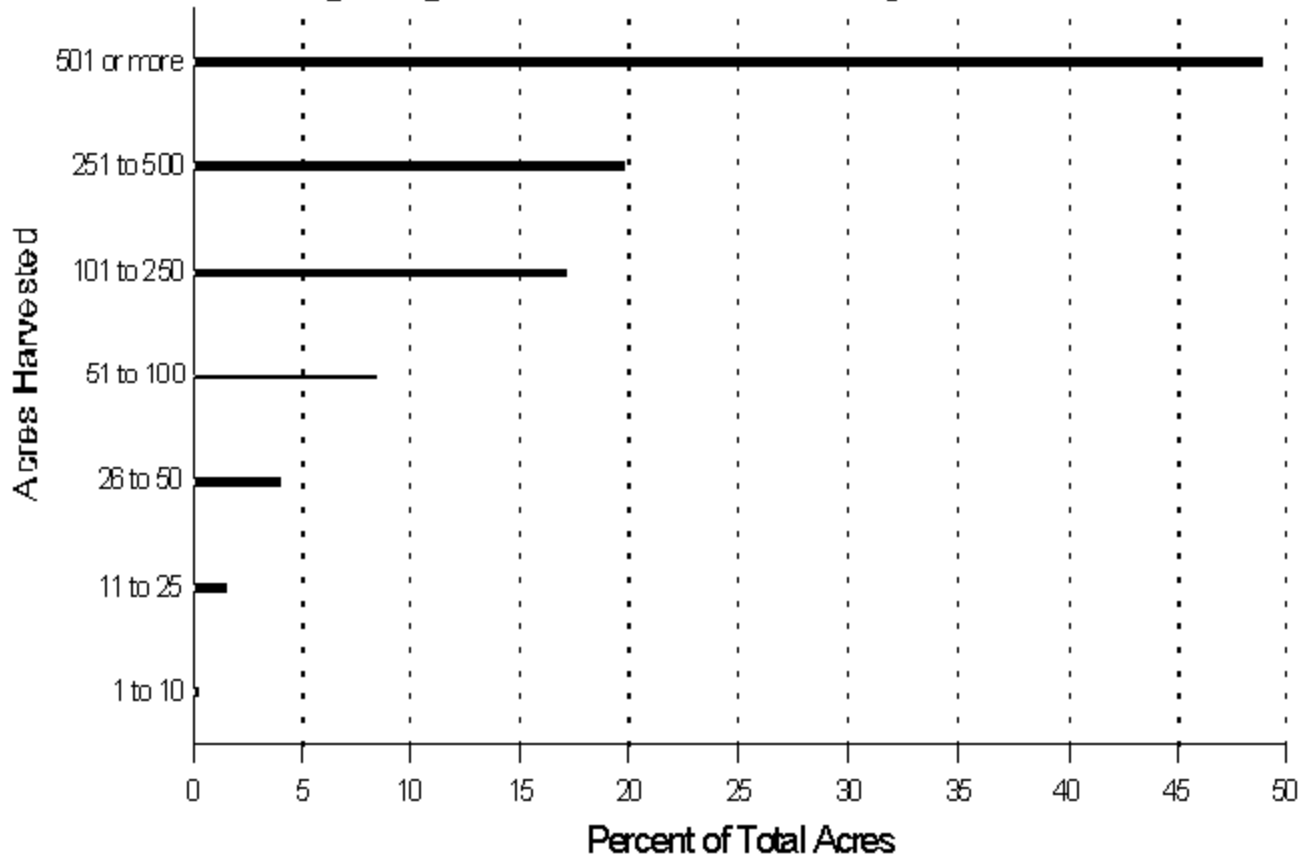
Processing Vegetables Harvested



Fresh Market Vegetables Harvested by Size of Farm



Processing Vegetables Harvested by Size of Farm



Survey Methods

The 1998 Rotational Vegetable Survey questionnaire was mailed to most operations on the list sampling frame of the Michigan Agricultural Statistics Service (MASS) that had vegetable indicators. Operations that were in the MASS Vegetable Chemical Survey were interviewed simultaneously on the Rotational Vegetable Survey. The first mailing occurred in mid-October, 1998. Questionnaires were sent to potato, mint, and new operations in late November, 1998. New farms were operations having vegetables on the 1997 Census of Agriculture that were not on the original list. Operators who did not respond by mail were telephoned or interviewed in person in November, December and January. Acres by crop were estimated for those who refused or who were unable to be contacted. Completion rates by type were as follows: mail, 10 percent; telephone, 32 percent; personal interview, 43 percent; estimated, 15 percent. The percent of cooperation varied widely by crop, as shown in the table below.

The definition of a commercial grower for this census was anyone growing at least one total acre of the crops of interest__potatoes, mint or vegetables. A total of 2,020

such farms were identified, down from 2,130 in 1995. The decline was in medium-sized vegetable farms. Three years ago there were 850 farms with 26 to 250 acres of vegetables. That count fell to 760 in 1998. The total acres of vegetables fell 12 percent since 1995 to just over 175,000 acres.

Acres planted for major counties for each vegetable crop and utilization are shown except when confidentiality rules prohibited county level data publication. Suppression occurs if there are fewer than three growers in the county or if one grower has more than 60 percent of the acres. Harvested acres and mean yields are shown at the agricultural statistics district level for major vegetable crops. They are published at the state level for minor crops.

Several vegetable farms operated in more than one county. The individual crop acres were split among the counties according to the percentage of the total vegetable acres in each county. The farm was, however, attributed only to the county with the majority of the vegetable acres.

Percent of Acres Imputed			
Crop	Percent	Crop	Percent
Asparagus	11.4	Onions, dry	18.9
Beans, snap	1.0	Peppers, bell	1.0
Cabbage	7.0	Peppers, other	7.4
Cantaloups	19.5	Potatoes	21.8
Carrots	18.9	Pumpkins	9.5
Cauliflower	1.0	Radishes	15.8
Celery	15.2	Squash, summer	9.0
Corn, sweet	15.9	Squash, winter	3.9
Cucumbers (processing)	10.8	Tomatoes (fresh)	24.3
Cucumbers (fresh)	2.5	Tomatoes (processing)	11.5
Mint	17.1	Turnips	0.6

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