

Michigan Rotational Survey

Vegetable Inventory 2005-06



USDA, NASS,
Michigan
Field Office



Michigan
Department of
Agriculture



STATE OF MICHIGAN
DEPARTMENT OF AGRICULTURE
LANSING

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September 2006

The Michigan Department of Agriculture (MDA) and the U.S. Department of Agriculture, National Agricultural Statistics Service (USDA, NASS), Michigan Field Office are pleased to present the results of the 2005-2006 Michigan Vegetable Rotational Survey. This bulletin represents a cooperative effort of the private and public sectors to provide data critical to the planning process for Michigan's agricultural industries.

This is the 15th report to be published under the Michigan Rotational Survey program. The program is funded by the Michigan legislature, administered by MDA and conducted by the USDA, NASS, Michigan Field Office. The first survey under this program was a fruit survey conducted in 1991. The fruit survey was followed by a vegetable survey in 1992 and a nursery and Christmas tree survey in 1993. Turfgrass was added to the rotation in 2002. The surveys continue on a rotational basis among the four areas of production.

Michigan growers are to be commended for their cooperation and voluntary submission of the data necessary to complete this report. The Michigan Vegetable Council and various commodity organizations representing Michigan's vegetable growers also provided helpful suggestions during the development of the survey questionnaires and encouraged their members to participate in the survey.

We look forward to the continued success of the Michigan Rotational Survey program and its resulting benefits to Michigan agriculture. If you have questions or suggestions for improving this publication, please contact the USDA, NASS, Michigan Field Office at (800) 453-7501.

Sincerely,

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Michigan Rotational Survey

Vegetable Inventory 2005-2006

USDA, NASS, Michigan Field Office

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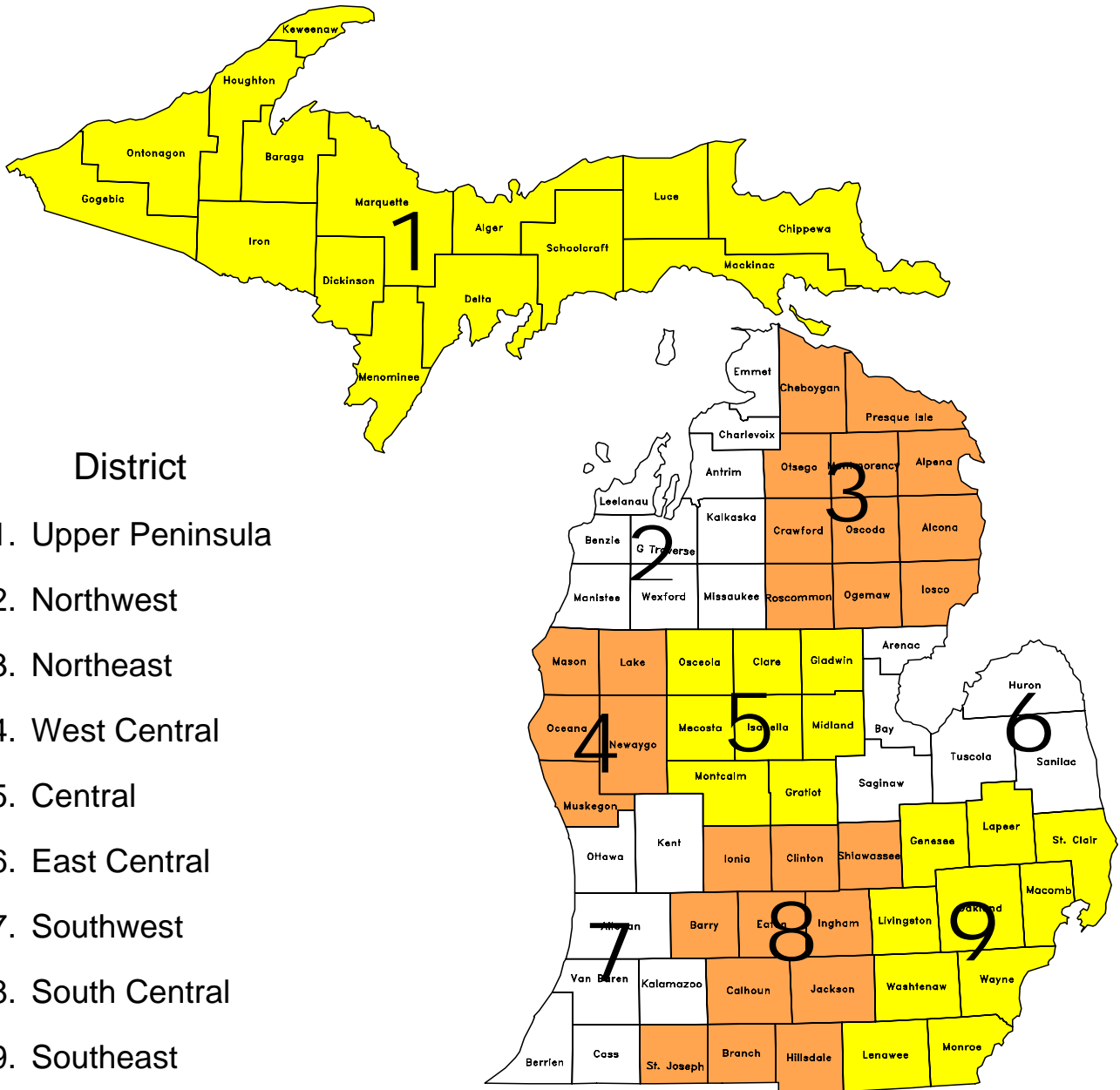
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Agricultural Statistics Districts

The State is divided into nine Agricultural Statistics Districts to make data comparison easier. An Agricultural Statistics District is a contiguous group of counties having relatively similar agricultural characteristics. Each district has within it more homogeneous agriculture than the State as a whole. They are numbered from north to south and west to east.



Principal vegetables: Planted and harvested acres

Vegetable	2001			2005		
	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	15,500	11,500	2,800	12,700	9,200	3,000
Beans, snap	20,700	16,000	3,800	21,300	16,200	4,100
Cabbage	2,300	300	1,800	2,350	550	1,750
Cantaloups	600	0	500	600	0	550
Carrots	6,550	1,500	4,800	5,400	2,250	3,000
Celery	2,000	500	1,400	1,700	630	970
Corn, sweet	10,500	0	9,000	9,000	0	8,000
Cucumbers	37,500	29,500	5,500	39,500	33,000	5,200
Onions, dry	4,100	0	3,700	3,000	0	2,900
Peas, green	1,750	1,500	45	2,800	2,600	90
Peppers, bell	1,900	200	1,400	1,500	150	1,300
Peppers, other	1,400	1,100	250	1,300	900	350
Potatoes	46,000	31,500	11,100	43,000	31,200	9,400
Pumpkins	5,500	0	4,400	6,000	0	5,200
Squash, summer	3,200	800	2,200	3,400	680	2,250
Squash, winter	3,700	1,100	2,300	5,200	2,370	2,600
Tomatoes	5,200	3,100	1,800	5,200	3,150	1,950
Other ¹	8,350	150	7,150	9,300	220	8,480
Michigan	176,750	98,750	63,945	173,250	103,100	61,090

¹ See table of Other selected vegetables.

Other selected 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/acre</i>	<i>1,000 pounds</i>
Beets, red	100	300	290	13,000	3,770
Broccoli	140	130	130	3,000	390
Cauliflower	100	300	270	11,500	3,100
Eggplant	120	220	210	22,000	4,620
Greens ¹	69	1,200	1,100	9,000	9,900
Lettuce, other	59	600	560	20,000	11,200
Onions, green	44	150	140	7,000	980
Parsnips	17	600	570	17,000	9,690
Radishes	43	3,000	2,800	5,100	14,280
Turnips	33	750	740	14,000	10,360
Watermelons	145	650	600	16,000	9,600
Other ²	80	1,400	1,290		
Michigan		9,300	8,700		

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

² Includes artichokes, Brussel sprouts, Chinese cabbage, Swiss chard, cilantro, dill, garlic, horseradish, leeks, head lettuce, lima beans, oriental melons, muskmelons, okra, parsley, oriental radishes, rhubarb, rutabagas, spinach, sweet potatoes, and cherry and grape tomatoes.

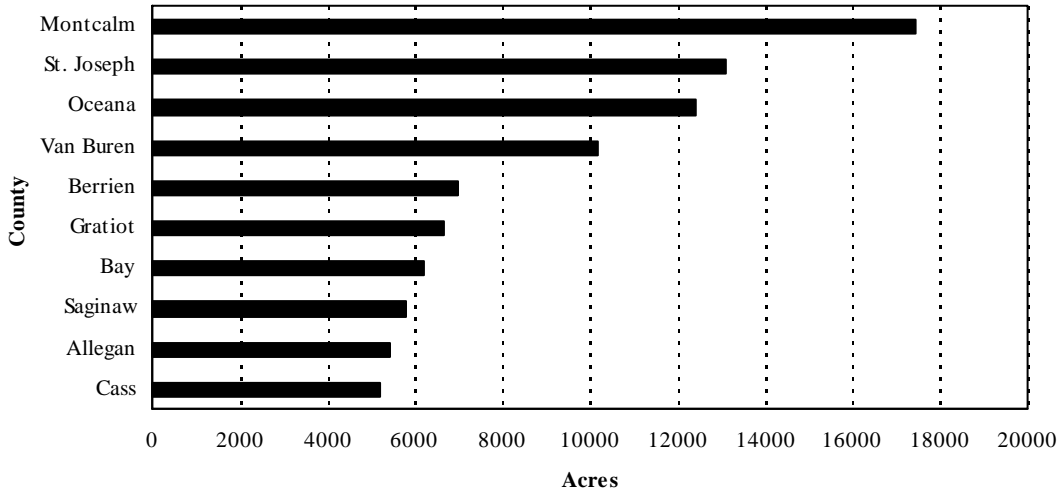
Principal vegetables: Number of farms and harvested acres

County and district	Farms	Processing	Fresh market	Total
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Delta	13	0	485	485
Dickinson	7	0	245	245
Marquette	6	200	160	360
Other counties	24	100	230	330
Upper Peninsula	50	300	1,120	1,420
Antrim	21		1,800	1,800
Grand Traverse	20	750	300	1,050
Kalkaska	6	450	700	1,150
Manistee	18	400	220	620
Other counties	40	800	650	1,450
Northwest	105	2,400	3,670	6,070
Presque Isle	20		1,450	1,450
Other counties	50		750	750
Northeast	70	0	2,200	2,200
Mason	44	4,000	400	4,400
Muskegon	18	1,800	250	2,050
Newaygo	33	1,400	3,250	4,650
Oceana	123	9,800	2,600	12,400
Gratiot	27	6,200	450	6,650
Isabella	10	1,700	700	2,400
Mecosta	22	4,750	400	5,150
Midland	15	950	50	1,000
Montcalm	43	17,100	350	17,450
Other counties	15	200	250	450
West Central & Central	350	47,800	8,700	56,600
Arenac	15	1,300	200	1,500
Bay	63	3,400	2,800	6,200
Saginaw	30	5,250	550	5,800
Tuscola	33	3,250	550	3,800
Other counties	24	500	400	900
East Central	165	13,700	4,500	18,200
Allegan	51	2,950	2,500	5,450
Berrien	134	650	6,350	7,000
Cass	22	2,650	2,550	5,200
Kalamazoo	24	2,300	400	2,700
Kent	47	600	1,800	2,400
Ottawa	60	150	3,500	3,650
Van Buren	62	7,400	2,800	10,200
Southwest	400	16,700	19,900	36,600
Branch	20	2,900	300	3,200
Calhoun	20	600	300	900
Clinton	23	150	300	450
Eaton	17	350	1,200	1,550
Ingham	22	200	1,000	1,200
Ionia	9	0	600	600
Jackson	24	0	700	700
St Joseph	44	11,600	1,500	13,100
Other counties	41	150	750	900
South Central	220	15,950	6,650	22,600

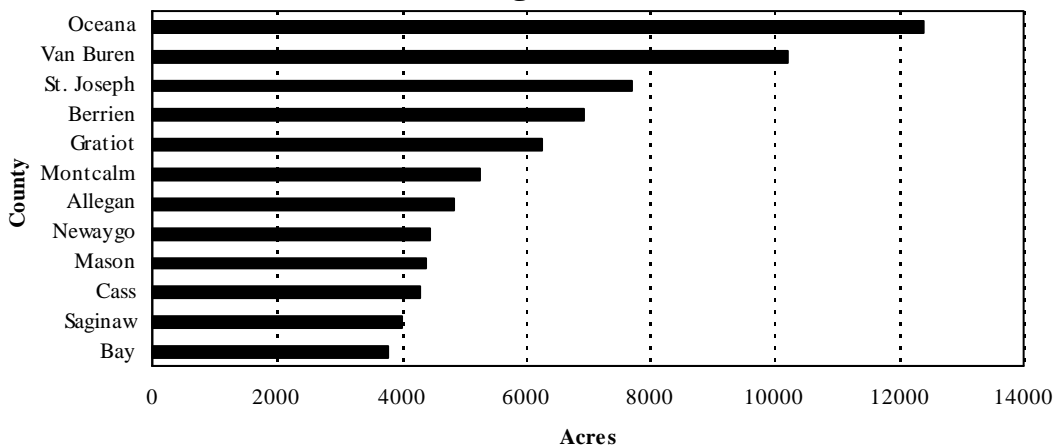
Principal vegetables: Number of farms and harvested acres (continued)

County and district	Farms	Processing	Fresh market	Total
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Genesee	28	800	300	1,100
Lapeer	35	200	2,100	2,300
Lenawee	29	3,050	1,000	4,050
Livingston	20	0	1,250	1,250
Macomb	56	0	3,000	3,000
Monroe	45	2,200	2,050	4,250
Oakland	18	0	350	350
St Clair	28	0	600	600
Washtenaw	38	0	2,600	2,600
Wayne	33	0	1,100	1,100
Southeast	330	6,250	14,350	20,600
Michigan	1,690	103,100	61,090	164,290

Top Vegetable Counties



**Top Vegetable Counties,
Excluding Potatoes**



Vegetables, all: Number of farms and planted acres, by size group

Size group	Farms	Percent of total	Planted	Percent of total
	<i>Number</i>	<i>Percent</i>	<i>Acres</i>	<i>Percent</i>
1 to 10 acres	780	46.2	3,350	1.9
11 to 25 acres	250	14.8	4,800	2.8
26 to 50 acres	180	10.7	7,800	4.5
51 to 100 acres	175	10.4	14,300	8.3
101 to 250 acres	160	9.5	30,000	17.3
251 to 500 acres	85	5.0	32,000	18.5
501 acres or more	60	3.6	81,000	46.8
Michigan	1,690		173,250	

Vegetables, processing: Number of farms and harvested acres, by size group

Size group	Farms	Percent of total	Harvested	Percent of total
	<i>Number</i>	<i>Percent</i>	<i>Acres</i>	<i>Percent</i>
1 to 10 acres	100	22.5	200	0.2
11 to 25 acres	40	9.0	900	0.9
26 to 50 acres	50	11.2	2,100	2.0
51 to 100 acres	85	19.1	6,500	6.3
101 to 250 acres	82	18.4	14,200	13.8
251 to 500 acres	47	10.6	17,800	17.3
501 acres or more	41	9.2	61,400	59.6
Michigan	445		103,100	

Vegetables, fresh market: Number of farms and harvested acres, by size group

Size group	Farms	Percent of total	Harvested	Percent of total
	<i>Number</i>	<i>Percent</i>	<i>Acres</i>	<i>Percent</i>
1 to 10 acres	760	55.5	3,090	5.1
11 to 25 acres	220	16.1	3,800	6.2
26 to 50 acres	145	10.6	5,500	9.0
51 to 100 acres	100	7.3	7,600	12.4
101 to 250 acres	98	7.2	15,400	25.2
251 to 500 acres	32	2.3	11,100	18.2
501 acres or more	15	1.1	14,600	23.9
Michigan	1,370		61,090	

Vegetables, processing: Production and value

Vegetable	Production	Price per ton	Value
	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Asparagus	8,700	960	8,352
Beans, snap	59,940	160	9,590
Carrots	58,500	62	3,627
Celery	22,050	150	3,308
Cucumbers, processing	158,400	168	26,611
Peas, green	5,720	220	1,258
Peppers, other	6,750	310	2,093
Potatoes ¹	475,000	139	66,025
Squash, summer	8,500	124	1,054
Squash, winter	45,030	44	1,981
Tomatoes	119,700	76	9,097
Other vegetables ²			1,942
Michigan			134,938

¹ Quantity sold, price, and value of sales.

² Cabbage for kraut, spinach, cauliflower, and bell peppers.

Vegetables, fresh market: Production and value

Vegetable	Production	Price per cwt	Value
	<i>Cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Asparagus	58,000	63.00	3,654
Beans, snap	226,000	60.00	13,560
Beets, red	37,700	18.00	679
Broccoli	3,900	75.00	293
Cabbage	630,000	8.50	5,355
Cantaloups	104,500	23.00	2,404
Carrots	1,080,000	14.00	15,120
Cauliflower	16,000	30.00	480
Celery	479,000	15.00	7,185
Corn, sweet	800,000	20.00	16,000
Cucumbers, fresh	936,000	16.00	14,976
Eggplant	46,200	24.00	1,109
Greens	99,000	25.00	2,475
Onions, dry	754,000	12.00	9,048
Peas, green	1,080	120.00	130
Peppers, bell	364,000	24.00	8,736
Peppers, other	63,000	30.00	1,890
Potatoes ¹	1,900,000	11.40	21,660
Pumpkins	754,000	12.00	9,048
Radishes	142,800	35.00	4,998
Squash, summer	292,500	21.00	6,143
Squash, winter	377,000	19.00	7,163
Tomatoes	429,000	38.00	16,302
Turnips	103,600	14.00	1,450
Watermelons	96,000	12.00	1,152
Other vegetables ²			16,265
Michigan			187,272

¹ Quantity sold, price, and value of sales.

² Includes artichokes, Brussel sprouts, Chinese cabbage, Swiss chard, cilantro, dill, garlic, horseradish, leeks, head lettuce, other lettuce, lima beans, oriental melons, muskmelons, okra, green onions, parsley, parsnips, oriental radishes, rhubarb, rutabagas, spinach, sweet potatoes, and cherry and grape tomatoes.

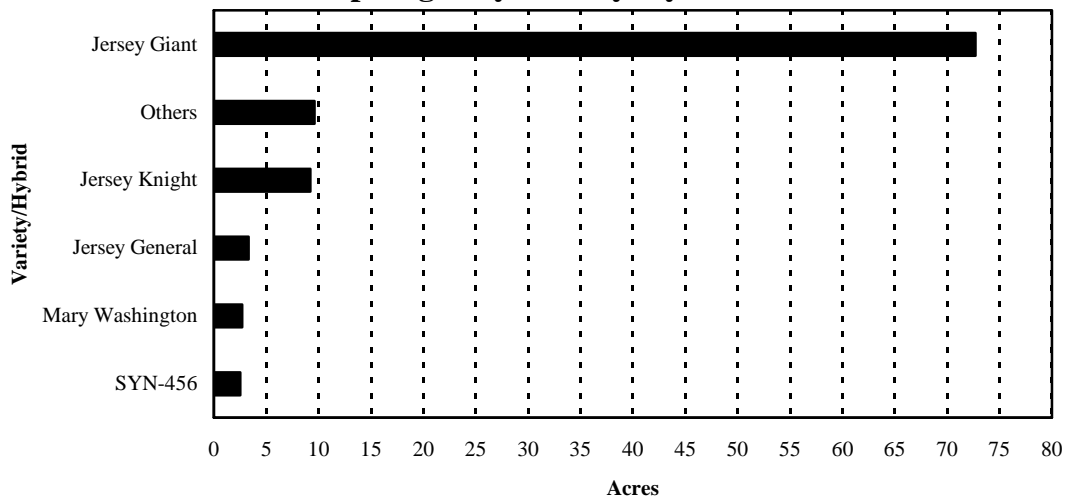
**Asparagus: Number of farms and acres
planted, by county and district**

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Manistee	7	200
Other counties	17	85
Northwest	24	285
Mason	32	1,750
Oceana	103	8,400
Other counties	8	150
West Central	143	10,300
Mecosta	4	150
Other counties	10	30
Central	14	180
Berrien & Cass	18	600
Van Buren	19	900
Other counties	13	230
Southwest	50	1,730
South Central	18	100
Southeast	24	70
Other districts	12	35
Michigan	285	12,700

**Asparagus, processing: Harvested acres, yield,
and production, by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
West Central	8,000	1,950	15,600
Southwest	1,120	1,530	1,710
Other districts	80	1,100	90
Michigan	9,200	1,890	17,400

Asparagus by Variety/Hybrid



**Asparagus, fresh market: Harvested acres, yield, and production,
by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Northwest	230	1,600	370
West Central	1,900	2,050	3,890
Southwest	560	1,700	950
Other districts	310	1,900	590
Michigan	3,000	1,930	5,800

Asparagus: Acres by variety and year of planting

Variety or hybrid	Before 1991	1991-95	1996-00	2001-02	2003	2004	2005	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>
Franklin	22	18	155	0	0	0	0	195
Jersey Centennial	9	36	15	0	0	0	0	60
Jersey General	0	165	185	0	0	0	0	350
Jersey Giant	1,250	1,830	3,400	650	210	130	160	7,630
Jersey King	10	64	51	0	0	0	20	145
Jersey Knight	120	140	130	155	45	70	90	750
Jersey Supreme	0	0	0	90	0	5	5	100
Mary Washington	95	91	49	0	0	0	0	235
Millenium	0	0	40	75	0	5	65	185
SYN 4-56	110	145	60	0	0	0	0	315
Viking KB3	17	53	0	0	0	0	0	70
Other varieties	27	58	115	45	0	15	5	265
West Central	1,660	2,600	4,200	1,015	255	225	345	10,300
Franklin	0	0	0	0	0	0	0	0
Jersey Centennial	0	0	11	0	1	3	45	60
Jersey General	55	8	6	1	0	0	0	70
Jersey Giant	225	320	740	125	42	53	95	1,600
Jersey King	0	0	4	5	0	1	0	10
Jersey Knight	32	43	260	2	2	58	23	420
Jersey Supreme	0	0	0	0	0	0	20	20
Mary Washington	83	3	18	1	0	0	0	105
Millenium	23	0	12	0	0	0	0	35
SYN 4-56	0	0	5	0	0	0	0	5
Viking KB3	46	3	9	0	0	0	2	60
Other varieties	6	3	5	1	0	0	0	15
Other districts	470	380	1,070	135	45	115	185	2,400
Franklin	22	18	155	0	0	0	0	195
Jersey Centennial	9	36	26	0	1	3	45	120
Jersey General	55	173	191	1	0	0	0	420
Jersey Giant	1,475	2,150	4,140	775	252	183	255	9,230
Jersey King	10	64	55	5	0	1	20	155
Jersey Knight	152	183	390	157	47	128	113	1,170
Jersey Supreme	0	0	0	90	0	5	25	120
Mary Washington	178	94	67	1	0	0	0	340
Millenium	23	0	52	75	0	5	65	220
SYN 4-56	110	145	65	0	0	0	0	320
Viking KB3	63	56	9	0	0	0	2	130
Other varieties	33	61	120	46	0	15	5	280
Michigan	2,130	2,980	5,270	1,150	300	340	530	12,700

Beans, snap, processing: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Grand Traverse	6	750			
Other Counties	6	850			
Northwest	12	1,600	1,550	8,600	13,340
Mason	12	1,650			
Newaygo & Oceana	5	850			
West Central	17	2,500	2,350	5,700	13,400
Montcalm	6	1,600			
Other counties	3	500			
Central	9	2,100	2,000	8,100	16,200
Kalamazoo	9	2,300			
Other counties	5	2,800			
Southwest	14	5,100	4,800	6,400	30,740
Branch & Calhoun	9	2,000			
St Joseph	20	3,700			
South Central	29	5,700	5,500	8,400	46,200
Michigan	81	17,000	16,200	7,400	119,880

Beans, snap, fresh market: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Berrien & Cass	24	1,750			
Other Counties	42	250			
Southwest	66	2,000	1,950	6,400	12,480
South Central	47	1,300	1,300	4,800	6,240
Macomb	15	370			
Other counties	65	180			
Southeast	80	550	450	3,500	1,570
Other districts	97	450	400	5,800	2,310
Michigan	290	4,300	4,100	5,500	22,600

Cabbage, processing: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Michigan	4	550	550	34,000	18,700

Cabbage, fresh market: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Kent & Ottawa	14	470			
Other counties	26	30			
Southwest	40	500	490	29,000	14,200
Macomb	23	190			
Monroe & Lenawee	17	750			
Other counties	45	160			
Southeast	85	1,100	1,060	42,000	44,500
Other districts	105	200	200	21,500	4,300
Michigan	230	1,800	1,750	36,000	63,000

Cantaloups: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Bay	21	85			
Other counties	21	25			
East Central	42	110	105	23,500	2,470
Berrien	25	60			
Ottawa	9	30			
Other counties	26	20			
Southwest	60	110	100	22,500	2,250
South Central	38	40	40	12,000	480
Macomb	16	55			
Monroe	9	65			
Washtenaw	10	25			
Other counties	25	160			
Southeast	60	305	275	18,000	4,950
Other districts	35	35	30	10,000	300
Michigan	235	600	550	19,000	10,450

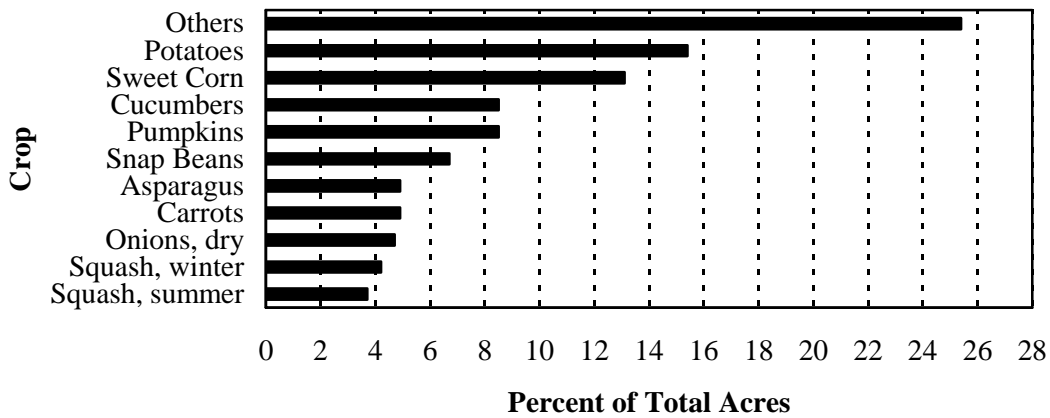
Carrots, processing: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Oceana	6	600			
Mason & Newaygo	3	850			
West Central	9	1,450	1,420	54,000	76,700
Other districts	6	850	830	48,500	40,300
Michigan	15	2,300	2,250	52,000	117,000

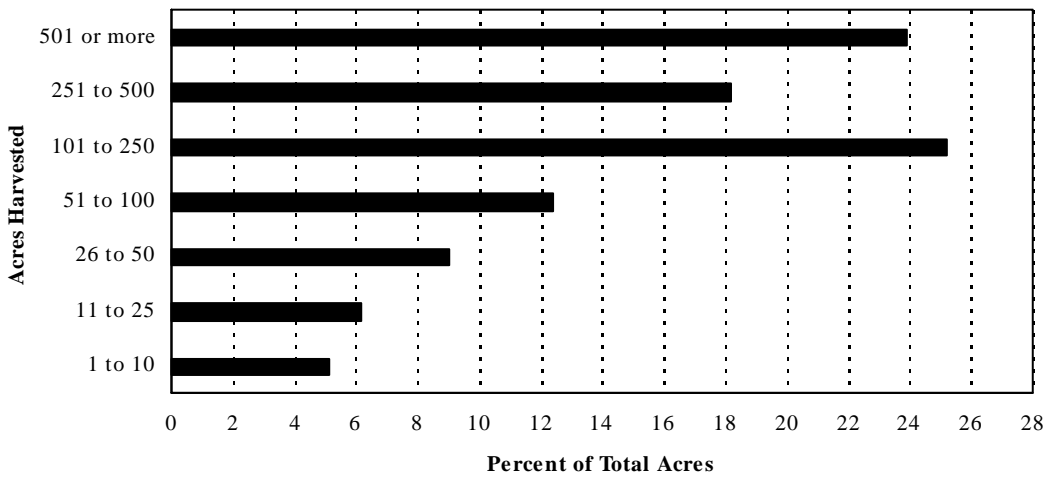
Carrots, fresh market: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Newaygo	3	950			
Other counties	5	250			
West Central	8	1,200	1,150	43,000	49,450
South Central	25	550	500	28,300	14,150
Southeast	17	750	750	28,000	21,000
Other districts	55	600	600	39,000	23,400
Michigan	105	3,100	3,000	36,000	108,000

Fresh Market Vegetables Harvested, 2005

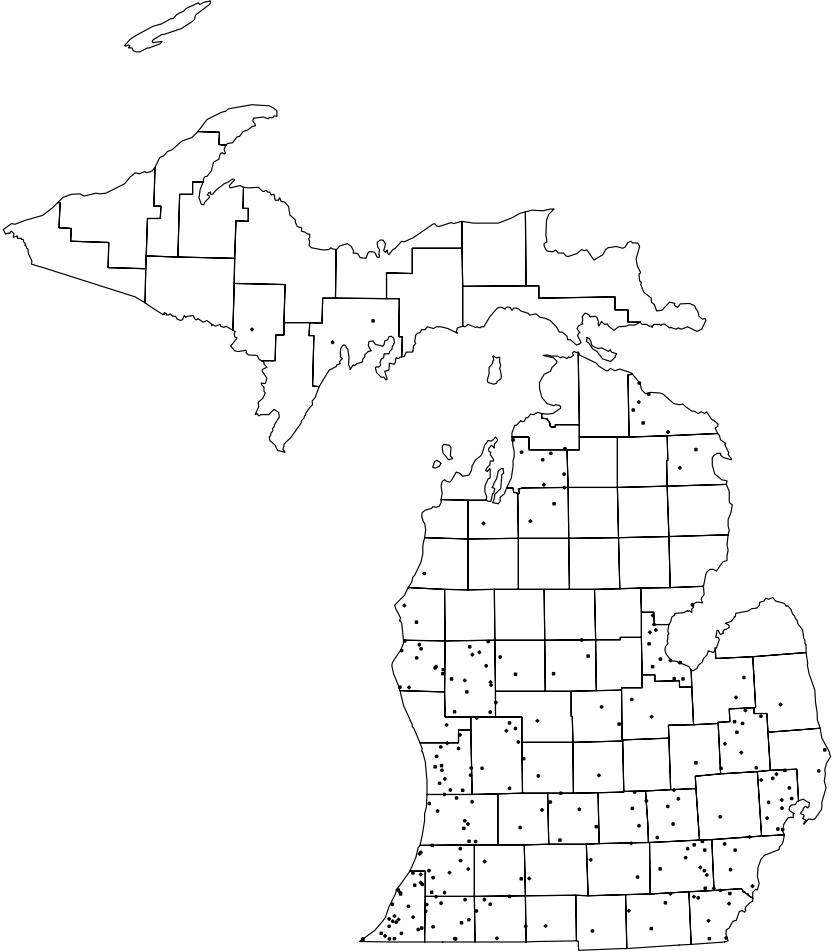


Fresh Market Vegetables Harvested by Size of Farm



Fresh Market Vegetables

Each dot represents 200 harvested acres



**Celery: Number of farms and planted
acres, by county and district**

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Muskegon & Newaygo	4	300
West Central	4	300
Allegan	3	340
Kent	4	190
Ottawa	5	300
Van Buren	4	340
Southwest	16	1,170
Other districts	10	230
Michigan	30	1,700

**Celery, processing: Harvested acres, yield, and
production, by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Southwest	310	64,000	19,850
Other districts	320	75,800	24,250
Michigan	630	70,000	44,100

**Celery, fresh market: Harvested acres, yield, and
production, by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Southwest	760	50,800	38,600
Other districts	210	44,300	9,300
Michigan	970	49,400	47,900

Corn, sweet, fresh market: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Antrim	14	180			
Grand Traverse	7	85			
Other counties	29	235			
Northwest	50	500	450	6,100	2,740
Newaygo & Oceana	25	410			
Other counties	10	90			
West Central	35	500	450	5,600	2,520
Bay	31	290			
Saginaw	17	160			
Other counties	30	200			
East Central	78	650	550	6,000	3,300
Allegan	21	160			
Berrien	36	680			
Kent	19	580			
Ottawa	21	330			
Van Buren	13	200			
Other counties	21	400			
Southwest	131	2,350	2,150	13,000	27,950
Clinton	11	170			
Eaton	8	110			
Ingham & Ionia	16	250			
Jackson	17	260			
Other counties	43	360			
South Central	95	1,150	1,000	7,200	7,200
Genesee	18	140			
Lapeer	6	210			
Lenawee	12	155			
Livingston	11	95			
Macomb	27	1,150			
Monroe	21	440			
Oakland	13	150			
St Clair	14	240			
Washtenaw	20	470			
Wayne	17	450			
Southeast	159	3,500	3,100	11,000	34,100
Other districts	77	350	300	7,300	2,190
Michigan	625	9,000	8,000	10,000	80,000

Cucumbers, processing: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Manistee	6	390			
Other counties	8	210			
Northwest	14	600	580	14,000	8,140
Oceana	12	600			
Muskegon	1	1,450			
Other counties	5	150			
West Central	18	2,200	2,170	8,000	17,360
Gratiot	13	5,100			
Montcalm	5	1,450			
Other counties	8	1,350			
Central	26	7,900	7,700	8,500	65,450
Arenac	8	1,300			
Bay	16	2,900			
Saginaw	7	3,450			
Tuscola	13	1,950			
East Central	44	9,600	9,500	9,500	90,300
Allegan	8	2,300			
Other counties	23	6,800			
Southwest	31	9,100	8,700	10,500	91,400
St Joseph	5	2,800			
Other counties	6	900			
South Central	11	3,700	3,500	9,700	33,950
Southeast	31	900	850	12,000	10,200
Michigan	175	34,000	33,000	9,600	316,800

Cucumbers, fresh market: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Allegan & Cass	15	850			
Berrien	30	1,800			
Van Buren	12	900			
Other counties	23	150			
Southwest	80	3,700	3,500	19,500	68,230
Monroe	11	120			
Other counties	79	130			
Southeast	90	250	230	14,500	3,330
West Central	15	800			
East Central	37	500			
Districts 1, 2, 3, 5, 8 ¹	98	250			
Other districts	150	1,550	1,470	15,000	22,040
Michigan	320	5,500	5,200	18,000	93,600

¹ Upper Peninsula, Northwest, Northeast, Central, and South Central.

Peppermint: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>
Clinton	5	450		
Other counties	7	550		
Michigan	12	1,000	35	35,000

Spearmint: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>
Clinton	5	1,500		
Other counties	5	100		
Michigan	10	1,600	35	56,000

Onions, dry: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Newaygo	7	630			
Other counties	3	90			
West Central	10	720	700	23,000	16,100
Allegan & Ottawa	9	630			
Other counties	13	110			
Southwest	22	740	720	31,000	22,300
Calhoun	5	150			
Eaton & Ingham	9	770			
Other counties	15	430			
South Central	29	1,200	1,170	24,000	28,050
Lapeer	4	220			
Other counties	20	20			
Southeast	24	240	220	33,000	7,250
Other districts	55	100	90	19,000	1,700
Michigan	140	3,000	2,900	26,000	75,400

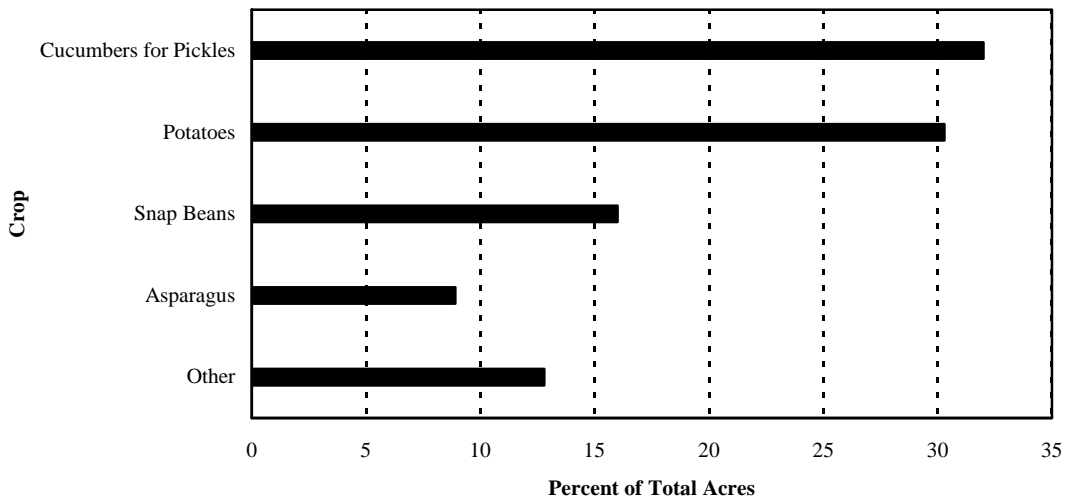
Peas, green, processing: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Montcalm	6	2,000			
Other counties	1	700			
Central	7	2,700	2,600	4,400	11,440
Michigan	7	2,700	2,600	4,400	11,440

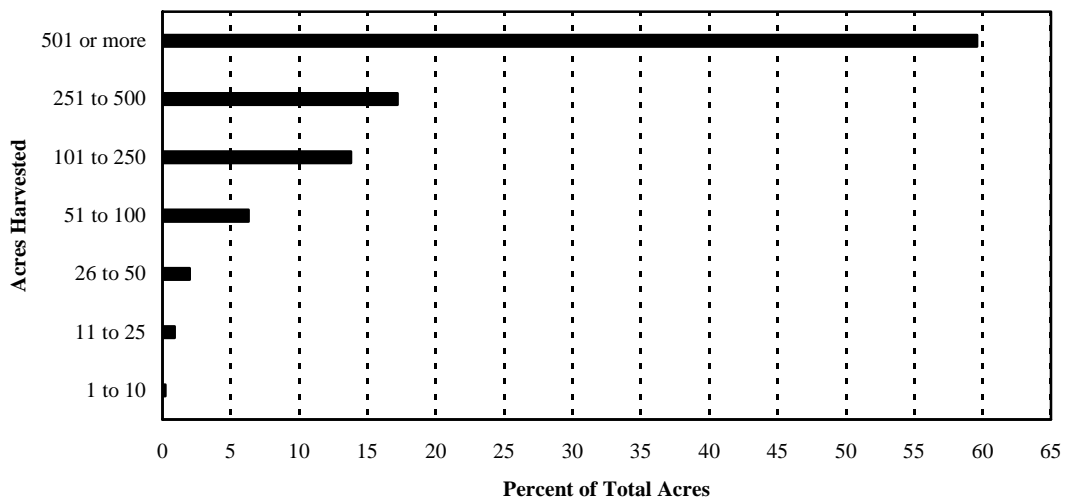
Peas, green, fresh market: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Michigan	95	100	90	1,200	108

Processing Vegetables Harvested, 2005



Processing Vegetables Harvested by Size of Farm



**Peppers, bell: Number of farms and
planted acres, by county and district**

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Newaygo & Oceana	14	205
Other counties	4	5
West Central	18	210
Berrien	26	345
Kent	10	60
Ottawa	17	80
Other counties	35	405
Southwest	88	890
Macomb	23	95
Monroe	18	115
Other counties	68	90
Southeast	109	300
Other districts	140	100
Michigan	355	1,500

**Peppers, bell, fresh market: Acres, yield, and production,
by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Southwest	840	33,000	27,700
Southeast	280	18,200	5,100
Other districts	180	20,000	3,600
Michigan	1,300	28,000	36,400

**Peppers, other: Number of farms and
planted acres, by county and district**

County and district	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Central	9	220
Bay	8	35
Other counties	11	65
East Central	19	100
Berrien	18	95
Other counties	26	55
Southwest	44	150
Lenawee & Monroe	16	760
Other counties	37	40
Southeast	53	800
Other districts	40	30
Michigan	165	1,300

**Peppers, other, processing: Acres, yield, and production,
by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Michigan	900	15,000	13,500

**Peppers, other, fresh market: Acres, yield, and production,
by county and district**

County and district	Harvested	Yield	Production
	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Southwest	115	16,000	1,840
Southeast	120	25,000	3,000
Other districts	115	12,700	1,460
Michigan	350	18,000	6,300

Potatoes: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Delta	6	700			
Dickinson	6	600			
Marquette	4	350			
Other counties	10	650			
Upper Peninsula	26	2,300	2,300	19,000	43,700
Antrim & Kalkaska	7	2,600			
Other counties	22	400			
Northwest & West Central	29	3,000	3,000	37,000	111,000
Presque Isle	13	1,800			
Other counties	8	700			
Northeast	21	2,500	2,500	22,000	55,000
Isabella & Mecosta	3	4,500			
Montcalm	17	12,300			
Other counties	4	700			
Central	24	17,500	17,400	33,000	574,200
Bay	22	2,500			
Saginaw & Tuscola	8	3,100			
Other counties	5	700			
East Central	35	6,300	6,200	28,500	176,700
Southwest	26	2,200	2,200	40,000	88,000
St Joseph	11	5,400			
Other counties	23	1,400			
South Central	34	6,800	6,800	40,300	274,000
Lenawee & Monroe	7	1,300			
Other counties	23	1,100			
Southeast	30	2,400	2,400	28,500	68,400
Michigan	225	43,000	42,800	32,500	1,391,000

Potatoes: Acres and production, by utilization

Use	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>Cwt</i>
Fresh market	9,500	9,400	285	2,700,000
Chipping	30,300	30,200	345	10,450,000
Other	1,000	1,000	230	230,000
Seed	2,200	2,200	240	530,000
Michigan	43,000	42,800	325	13,910,000

Potatoes: Planted acres, by district and utilization

District	Fresh market	Chipping	Other	Seed	Total Planted
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Upper Peninsula	900		300	1,100	2,300
Northwest and West Central	2,500			500	3,000
Northeast	1,900			600	2,500
Central	100	17,400			17,500
East Central	2,400	3,900			6,300
Southwest	500	1,700			2,200
South Central	550	6,000	250		6,800
Southeast	650	1,300	450		2,400
Michigan	9,500	30,300	1,000	2,200	43,000

Potatoes: Number of farms and planted acres, by size group

Size group	Farms	Acres
4.9 acres or less	105	150
5 to 24.9 acres	26	300
25 to 99.9 acres	27	1,700
100 to 199.9 acres	26	3,400
200 to 299.9 acres	11	2,650
300 to 499.9 acres	11	4,550
500 to 999.9 acres	5	2,950
1,000 acres or more	14	27,300
Michigan	225	43,000

Processing Vegetables

Each dot represents 200 harvested acres



Pumpkins: Number of farms, acres, yield, and production, by county and district

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Oceana	18	400			
Other counties	20	200			
West Central	38	600	500	18,000	9,000
Central	55	650	550	15,000	8,200
Bay	31	150			
Saginaw	13	80			
Other counties	26	70			
East Central	70	300	280	20,000	5,600
Allegan	20	130			
Berrien	51	390			
Kent	22	95			
Ottawa	28	230			
Van Buren	19	180			
Other counties	15	75			
Southwest	155	1,100	900	9,500	8,500
Branch & Hillsdale	11	180			
Clinton	6	55			
Ingham	13	65			
Jackson	16	100			
Other counties	48	150			
South Central	94	550	500	16,000	8,000
Genesee	14	70			
Lapeer	18	120			
Lenawee	12	280			
Livingston	12	130			
Macomb	37	510			
Monroe	24	370			
Oakland	14	150			
St Clair	22	190			
Washtenaw	23	260			
Wayne	23	320			
Southeast	199	2,400	2,100	14,500	30,400
Upper Peninsula	19	85			
Northwest	42	190			
Northeast	28	125			
Other districts	89	400	370	15,500	5,700
Michigan	700	6,000	5,200	14,500	75,400

**Squash, summer, processing: Number of farms, acres,
yield, and production, by County and district**

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Oceana	8	500			
Other counties	2	200			
West Central	10	700	680		
Michigan	10	700	680	25,000	17,000

**Squash, summer, fresh market: Number of farms, acres,
yield, and production, by County and district**

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Oceana	4	120			
Other counties	13	40			
West Central	17	160	140	14,000	1,960
Central	22	150	140	25,000	3,500
Berrien	53	1,260			
Van Buren	12	470			
Other counties	38	270			
Southwest	103	2,000	1,650	12,000	19,800
Lapeer	7	85			
Macomb	20	85			
Other counties	66	100			
Southeast	93	270	220	12,000	2,640
Other districts	125	120	100	13,500	1,350
Michigan	360	2,700	2,250	13,000	29,250

**Squash, winter, processing: Number of farms, acres, yield,
and production, by County and district**

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Mason	11	820			
Newaygo	5	480			
Oceana	10	850			
West Central	26	2,150	2,120		
Other districts	2	250	250		
Michigan	28	2,400	2,370	38,000	90,060

**Squash, winter, fresh market: Number of farms, acres, yield,
and production, by County and district**

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Bay	22	55			
Other counties	33	45			
East Central	55	100	90	15,000	1,350
Allegan	12	95			
Berrien	40	320			
Kent	13	330			
Ottawa	21	900			
Other counties	24	155			
Southwest	110	1,800	1,700	16,000	27,200
Lapeer	11	110			
Macomb	26	165			
St Clair	14	60			
Other counties	74	115			
Southeast	125	450	400	13,000	5,200
Other districts	165	450	410	9,600	3,950
Michigan	455	2,800	2,600	14,500	37,700

**Tomatoes, processing: Number of farms, acres, yield,
and production, by county and district**

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Branch	3	750			
Calhoun & St Joseph	3	550			
South Central	6	1,300	1,300	77,000	100,100
Lenawee & Monroe	6	1,900			
Southeast	6	1,900	1,850	75,300	139,300
Michigan	12	3,200	3,150	76,000	239,400

**Tomatoes, fresh market: Number of farms, acres, yield,
and production, by county and district**

County and district	Farms	Planted	Harvested	Yield	Production
	<i>Number</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 pounds</i>
Bay	24	55			
Other counties	37	45			
East Central	61	100	100	15,300	1,530
Berrien	47	900			
Other counties	74	390			
Southwest	121	1,290	1,270	25,000	31,750
Macomb	31	110			
Monroe	21	175			
Other counties	91	145			
Southeast	143	430	410	18,500	7,580
Other districts	175	180	170	12,000	2,040
Michigan	500	2,000	1,950	22,000	42,900

Vegetables used for deer feed

Vegetable	Planted	Harvested	Production	Price per cwt	Value
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>Dollars</i>	<i>Dollars</i>
Cabbage	85	80	20,000	2	40,000
Carrots	150	140	50,000	2.5	125,000
Culled carrots ¹			18,000	2	36,000
Pumpkins	30	25	2,500	5	12,500
Culled pumpkins ¹			200	5	1,000
Other	5	5			5,500
Michigan	270	250			220,000

¹ Planted for human use but culled for deer feed.

Vegetables grown in greenhouses or under other permanent cover ¹

Type	Vegetable	Farms	Harvested	Value
		<i>Number</i>	<i>Square feet</i>	<i>Dollars</i>
Greenhouses	Tomatoes	28	105,000	600,000
	Other ²	18	60,000	250,000
	Total	40	165,000	850,000
Other cover ³	Tomatoes	15	650,000	400,000
	Other ⁴	8	275,000	100,000
	Total	18	925,000	500,000

¹ This production is not included in other tables.

² Cucumbers, eggplant, greens, lettuce, melons, bell peppers, other peppers, seed potatoes, spinach, bean sprouts, and cherry tomatoes.

³ High tunnels, temporary plastic structures, and unheated hoop houses, etc.

⁴ Basil, beets, cantaloups, carrots, cucumbers, fennel, leeks, mustard, radishes, turnips, and watermelons.

Vegetables grown organically

Vegetable	Farms	Planted
	<i>Number</i>	<i>Acres</i>
Asparagus	9	9
Beans, snap	43	14
Beets, red	20	5
Broccoli	25	5
Cabbage	20	4
Cantaloups	22	11
Carrots	20	10
Cauliflower	15	3
Celery	7	2
Corn, sweet	39	64
Cucumbers	34	13
Eggplant	18	4
Greens	14	10
Lettuce, head	10	2
Lettuce, other	12	2
Onions, dry	16	5
Onions, green	11	2
Peas, green	22	5
Peppers, bell	33	12
Peppers, other	16	5
Potatoes	5	4
Pumpkins	28	54
Squash, summer	37	13
Squash, winter	30	19
Tomatoes	52	30
Watermelons	20	4
Other ¹		9
Michigan	85	320

¹ Dill, garlic, honeydews, okra, radishes, spinach, cherry and grape tomatoes, and turnips.

Survey Methods

The 2005 Rotational Vegetable Survey questionnaire was mailed to operations on the USDA, NASS, Michigan Field Office's list sampling frame that had indicators of vegetables. The first mailing occurred in mid-October 2005. Questionnaires were sent to potato and mint operations in late November 2005. 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: mailed, 26 percent; telephoned, 38 percent; interviewed, 17 percent; and estimated, 19 percent. The percent of cooperation varied widely by crop, as shown in the table below.

The definition of a commercial grower for this inventory was anyone growing at least one total acre of the crops of interest:

potatoes, mint, or vegetables. There were a total of 1,690 such farms identified. That was up from 1,550 four years ago. The increase was in small vegetable farms. Four years ago there were 625 farms with 10 acres or less of vegetables. That count rose to 780 in 2005. Much of the increase can be attributed to better list coverage of small farms. The total acres of vegetables fell by two percent since 2001 to just over 173,000.

Acres planted for major counties for each vegetable crop and utilization are shown except when confidentiality rules prohibited county level data publication. 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 to only the county with the majority of vegetable acres.

Percent of Acres Imputed	
Crop	Percent
Asparagus	14.1
Beans, snap, processing	17.0
Beans, snap, fresh	8.1
Cabbage	10.6
Cantaloups	24.9
Carrots	10.3
Cauliflower	24.1
Celery	5.4
Corn, sweet	22.6
Cucumbers, processing	36.6
Cucumbers, fresh	15.6
Mint	38.9
Onions, dry	7.3
Peppers, bell	16.3
Peppers, other	5.1
Potatoes	7.9
Pumpkins	16.7
Squash, summer	19.3
Squash, winter	17.3
Tomatoes, processing	4.9
Tomatoes, fresh	33.5
Turnips	7.3

Michigan Vegetable Inventory-2005



USDA, NASS, Michigan Field Office
 3001 Coolidge Road, Suite 400
 East Lansing, Michigan 48823
 Telephone: (517) 324-5300
 Facsimile: (517) 324-5299

Project Code 481

October 2005

Dear Grower:

The Michigan Department of Agriculture is conducting an inventory of Michigan's vegetable acreage. There is a demand for marketing information at the county level. We need your help to insure that all vegetable acreage and production is counted. **For this report, mint and potatoes are also included.** Please report your acreage and yield of vegetable crops. The information you report is kept confidential. Response to this survey is voluntary and not required by law. Your cooperation, however, is very important and greatly appreciated. Please complete and return this questionnaire promptly.

Please make corrections to name, address and Zip Code, if necessary.

To avoid duplication, indicate below any farm name or partner(s) associated with this operation **not** included in the above address.

If you receive more than one of these forms, please complete one, mark any other "duplicate," and mail in all forms.

If not growing vegetables, mint or potatoes, 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 vegetables, mint, or potatoes.

Complete A. and B. below.

Farm Name: _____

New Operator Name: _____

Partner's Name(s): _____

Address: _____

Address: _____

City: _____ Zip: _____

City: _____ Zip: _____

Phone: _____

Instructions: Include land rented from others, but exclude land rented to others. Exclude production in greenhouses or under other permanent cover. When a crop is used for fresh market and processing, please distinguish between the two uses. Yields should reflect production harvested and sold. Prices for fresh vegetables are the average prices received at point of first sale. Prices for processing vegetables are the average prices received at the processing plant door.

		Acres
A. Total acres operated in 2005 (Include land you own or rent, exclude land rented out)		901
B. Of the total acres operated, how many acres are considered cropland?		902
C. Acres of vegetables, mint, and potatoes in major county of operation.	_____	903
D. Acres of vegetables, mint, and potatoes in secondary county of operation.	_____ (specify county)	904
	_____ (specify county)	

2.

Vegetables

Commodity	Use	Acres planted in 2004 (nearest tenth)	Acres planted in 2005 (nearest tenth)	Acres harvested in 2005 (nearest tenth)	2005 Yield (pounds/acre)	Average price (cents/lb)
Beans, snap	Fresh	101 .	102 .	103 .	104	105 .
	Processing		142 .	143 .	144	145 .
Beets, red	Fresh		152 .	153 .	154	155 .
Broccoli	Fresh		172 .	173 .	174	175 .
	Processing		182 .	183 .	184	185 .
Cabbage	Fresh	201 .	202 .	203 .	204	205 .
	Processing		192 .	193 .	194	195 .
Cantaloupes	Fresh		302 .	303 .	304	305 .
Carrots	Fresh	401 .	402 .	403 .	404	405 .
	Processing		212 .	213 .	214	215 .
Cauliflower	Fresh		502 .	503 .	504	505 .
	Processing		222 .	223 .	224	225 .
Celery	Fresh	601 .	602 .	603 .	604	605 .
	Processing	231 .	232 .	233 .	234	235 .
Corn, sweet	Fresh	701 .	702 .	703 .	704	705 .
	Processing		712 .	713 .	714	715 .
Cucumbers	Fresh	801 .	802 .	803 .	804	805 .
Cucumbers (for pickles)	Processing		252 .	253 .	254	255 .
Eggplant	Fresh		242 .	243 .	244	245 .
Greens-collard, mustard, etc.	Fresh		262 .	263 .	264	265 .
Lettuce, head	Fresh		282 .	283 .	284	285 .
Lettuce, other	Fresh		292 .	293 .	294	295 .

Notes and Calculations

SAMPLE

4.

Vegetables (continued)						
Commodity	Use	Acres planted in 2004 (nearest tenth)	Acres planted in 2005 (nearest tenth)	Acres harvested in 2005 (nearest tenth)	2005 Yield (pounds/acre)	Average price (cents/lb)
Onions, dry	Fresh	111	112	113	114	115
Onions, green	Fresh		322	323	324	325
Parsnips	Fresh		372	373	374	375
Peas, green	Fresh		482	483	484	485
	Processing		492	493	494	495
Peppers, bell	Fresh	121	122	123	124	125
	Processing		332	333	334	335
Peppers, other	Fresh		342	343	344	345
	Processing		352	353	354	355
Pumpkins	Fresh	361	362	363	364	365
Radishes	Fresh		382	383	384	385
Squash, summer	Fresh	391	392	393	394	395
	Processing	411	412	413	414	415
Squash, winter	Fresh	421	422	423	424	425
	Processing	431	432	433	434	435
Tomatoes (exclude cherry and grape tomatoes)	Fresh	131	132	133	134	135
	Processing		442	443	444	445
Turnips	Fresh		452	453	454	455
Watermelons	Fresh		472	473	474	475
Other* (specify)	Fresh		512	513	514	515
	Processing		522	523	524	525

*Other vegetables may include cherry and grape tomatoes, kale, parsley, rhubarb, spinach and any other vegetable not listed.

Notes and Calculations

SAMPLE

6.

Asparagus			
Current total acres	Use	Acres harvested in 2005 (nearest tenth)	2005 yield (pounds/acre)
190	Fresh	197	198
	Processing	207	208

Code Box	
Variety	Code
Franklin	101
Gjinlim	102
Jersey Centennial	103
Jersey Gem	104
Jersey General	105
Jersey Giant	106
Jersey King	107
Jersey Knight	108
Jersey Supreme	109
Mary Washington	110
Millenium	111
Tiessen	112
Viking KB3	113

Report current total asparagus acres using the variety codes provided. If not listed, write in the variety or hybrid.

Field (number)	County	Variety (code or name)	Year planted	Acres (nearest tenth)	Field (number)	County	Variety (code or name)	Year planted	Acres (nearest tenth)
				.					.
				.					.
				.					.
				.					.
				.					.
				.					.
				.					.
				.					.

Mint				
Type	Acres harvested in 2004	Acres harvested in 2005	Pounds of oil produced per acre in 2005	2005 average oil price (dollars/lb)
Peppermint	156	157	158	159
Spearmint	166	167	168	169

Potatoes				
Location	Use	Acres planted in 2005	Acres harvested in 2005	Yield (cwt./acre)
County 1: _____ (specify)	Fresh	106	107	108
	Chipping	216	217	218
	Other	306	307	308
	Seed	406	407	408
County 2: _____ (specify)	Fresh	506	507	508
	Chipping	606	607	608
	Other	706	707	708
	Seed	806	807	808
County 3: _____ (specify)	Fresh	116	117	118
	Chipping	126	127	128
	Other	136	137	138
	Seed	146	147	148

Notes and Calculations

SAMPLE

8.

Instructions: For the vegetable production **previously reported**, list the acres, production, and prices for the following two categories.

Vegetables used for deer feed or bait

Commodity	Acres planted	Acres harvested	Production (cwt)	Price (cents/lb)
Carrots planted for human use, but culled for deer feed				.
Carrots planted for deer feed	.	.		.
Specify	.	.		.
Specify	.	.		.

Organically grown vegetables

Commodity	Acres planted	Acres harvested	Production (cwt)	Price (cents/lb)
Specify	.	.		.
Specify	.	.		.
Specify	.	.		.

Instructions: Production **excluded from the previous sections** for field grown vegetables should be included here. Crops grown under removable covers, such as tunnels, are considered field grown and should have been reported previously.

Vegetables grown in Greenhouses (in soil or hydroponically)

Commodity	Planted (square feet)	Harvested (square feet)	Production (cwt)	Price (cents/lb)
Tomatoes				.
Specify				.
Specify				.

Vegetables grown for the entire season under other cover – high tunnels, temporary plastic structures, unheated hoop houses, etc.

Commodity	Planted (square feet)	Harvested (square feet)	Production (cwt)	Price (cents/lb)
Specify				.
Specify				.
Specify				.

Office Use Only	Respondent		Response Code		Enum.	Eval.
Respondent's Name	1-Op/Ptnr 2-Sp 3-Acct/Bkpr 4-Oth 5-Est R 6-Est NR	001	2-Tel 3-Int 7-TR 8-IR 9-Inac	910	098	100

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Reports, data products, and services published by the USDA, NASS, Michigan Field Office, 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: www.michigan.gov/mda

- **USDA, NASS, Michigan Field Office**

From the NASS home page, www.nass.usda.gov, click on the Statistics by State dropdown to access the Michigan Internet page.

On the Michigan Internet 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: www.nass.usda.gov

You can access national releases, 2002 Census of Agriculture data, and home pages of **NASS** Field 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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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.



NASS

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