

# Michigan

Agricultural Statistics 2009-2010



USDA, NASS  
Michigan  
Field Office



Michigan  
Department of  
Agriculture

MICHIGAN STATE  
UNIVERSITY  
EXTENSION

MICHIGAN STATE  
UNIVERSITY  
COLLEGE OF  
AGRICULTURE  
AND NATURAL  
RESOURCES





STATE OF MICHIGAN  
DEPARTMENT OF AGRICULTURE  
LANSING

JENNIFER M. GRANHOLM  
GOVERNOR

DON KOIVISTO  
DIRECTOR

September 2010

Michigan is a state rich in agriculture history and farming tradition. The Michigan Department of Agriculture (MDA) is proud of the role it plays in assuring a strong, viable food and agriculture industry in our state. We are equally proud of the partnership we have built with the Michigan Field Office of USDA's National Agricultural Statistics Service to provide you accurate data with which to gauge agriculture's importance to the economy.

The impact of Michigan agriculture on our state's economy is \$71.3 billion and growing, which equips our state to take on the challenge of a new, diverse business environment. Production agriculture, food processing, and related businesses employ approximately one million residents. Further, our unique landscape produces more than 200 commodities, making the state second only to California in terms of crop diversity.

Michigan exports about one-third of its agricultural commodities each year. In 2008, our annual agricultural exports generated nearly \$1.7 billion, and employed over 19,000 residents. The state is also home to 56,000 farms averaging 179 acres each. Significant growth in the number of small farms over the past few years, as well as large farms, is very promising. More than 31 percent of the state's total farmland is in some form of preservation agreement.

MDA continues its goal to protect consumers by ensuring a safe, secure and wholesome food supply; promoting Michigan agricultural products, the expansion of value-added opportunities, and agricultural tourism in our state; and preserving our 10 million acres of farmland and the quality of life Michigan's rural areas.

Our producers, industry organizations, and federal counterparts are vital to ensuring the growth of our industry. It is indeed an exciting time to be part of this dynamic industry. MDA will continue to serve Michigan citizens with great pride and enthusiasm.

If you have questions or comments about MDA or our state's agriculture industry, please contact the department at (800) 292-3939 or [mda-info@michigan.gov](mailto:mda-info@michigan.gov).

Sincerely,

A handwritten signature in black ink that reads "Don Koivisto".

Don Koivisto  
Director



**DATE:** September 2010

**TO:** Dave Kleweno  
USDA – National Agricultural Statistics

**FROM:** Stephen B. Lovejoy                      Douglas Buhler  
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Steve Hanson, Chair  
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**RE:** NASS 2009-10 Agricultural Statistics publication

Michigan State University is pleased to partner with the Michigan Department of Agriculture and the National Agricultural Statistics Service (USDA) in continuing the long tradition of providing data on Michigan's agricultural economy with the release of the 2009-10 Agricultural Statistics publication information on the changing production patterns and production units in Michigan is very valuable as the College of Agriculture and Natural Resources, the Michigan Agricultural Experiment Station and Michigan State University Extension develop our research and education plans and programs.

Our goal is to assist the agricultural sector in their efforts to continue to grow and provide for the food and fiber needs of families, in Michigan and across the globe. In addition, we strive to assist a wide variety of agricultural producers and agribusiness firms to be sustainable, environmentally and economically.

We look forward to continuing this partnership as Michigan Agriculture continues to grow and prosper.



United States Department of Agriculture  
National Agricultural Statistics Service  
Michigan Field Office  
Cooperating with Michigan Department of Agriculture



September 2010

The Michigan Field Office of USDA, National Agricultural Statistics Service (NASS) is pleased to provide the 2009-2010 Michigan Agricultural Statistics publication to data users and providers. This comprehensive summary of Michigan's agriculture is provided as a product of the partnership between the Michigan Department of Agriculture, Michigan State University (Agricultural Experiment Station, College of Agriculture and Natural Resources, and Extension), and NASS. Funding and support from these partners makes this state publication possible. This publication serves as the primary source for evaluating and measuring change in Michigan agriculture. The data series dates back to 1886. Several programs of special interest were either released or recently surveyed since September 2009. Detailed information regarding these programs can be found as follows.

- Released:
- Agricultural Chemical Usage – Wheat  
[http://www.nass.usda.gov/Surveys/Guide\\_to\\_NASS\\_Surveys/Chemical\\_Use/](http://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Chemical_Use/)
  - Agricultural Chemical Usage -Fruit  
<http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1567>
  - Farm and Ranch Irrigation Survey- Fruit  
[http://www.agcensus.usda.gov/Publications/2007/Online\\_Highlights/Farm\\_and\\_Ranch\\_Irrigation\\_Survey/index.asp](http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Farm_and_Ranch_Irrigation_Survey/index.asp)
  - Organic Survey  
[http://www.agcensus.usda.gov/Surveys/Organic\\_Production\\_Survey/index.asp](http://www.agcensus.usda.gov/Surveys/Organic_Production_Survey/index.asp)

Surveyed during 2010 and will be released and available at <http://www.agcensus.usda.gov/>

- Census of Horticulture Specialties December 2010 release
- On-Farm Renewable Energy Production February 2011 release
- Nursery & Floriculture Chemical Use February 2011 release

This publication and the extensive amount of information associated with the NASS website at <http://www.nass.usda.gov/> are possible due to the cooperation and support of Michigan's growers. We thank them for factually showing that "Agriculture Counts" and continues to grow, even during difficult economic times.

On behalf of the Michigan Field Office staff and the National Association of State Departments of Agriculture enumerator team, thank you for giving us an opportunity to serve you with timely and accurate agricultural information. Please feel free to contact us anytime at (800)-453-7501.

David D. Kleweno  
Director

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**Rank in U.S. agriculture by selected commodities, 2009**

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			<i>Thousands</i>	<i>Percent</i>	
<b>1</b>	Beans, dry, black	Cwt	1,770	58.8	Michigan
	Beans, dry, cranberry	Cwt	55	65.5	Michigan
	Beans, dry, small red	Cwt	404	57.5	Michigan
	Blueberries	Pounds	99,000	26.9	Michigan
	Cherries, tart	Pounds	266,000	74.1	Michigan
	Cucumbers (for pickles)	Tons	188.5	34.7	Michigan
	Geraniums (seed and cuttings)	Pots	20,103	33.0	Michigan
	Geraniums – Cutting	Baskets	593	17.1	Michigan
	Grapes, Niagara	Tons	27.5	43.2	Michigan
	Hostas	Pots	2,699	26.6	Michigan
	Impatiens	Flats	1,947	24.5	Michigan
	Impatiens	Baskets	517	24.6	Michigan
	Begonias	Baskets	357	23.3	Michigan
	New Guinea Impatiens	Baskets	462	18.0	Michigan
	Petunias	Flats	1,549	21.7	Michigan
	Petunias	Baskets	818	19.5	Michigan
	Easter Lilies	Potted	1539	24.6	Michigan
Squash	Cwt	1,365	18.9	Michigan	
<b>2</b>	Beans, dry, all	Cwt	3,510	13.8	North Dakota
	Beans, dry, navy	Cwt	976	29.2	North Dakota
	Carrots (fresh market)	Cwt	594	2.7	California
	Celery	Cwt	1,055	5.4	California
	Hardy/garden Chrysanthemums	Pots	4,911	11.2	North Carolina
	Potted Other herbaceous perennials	Pots	17,853	14.8	California
	Marigolds	Flats	821	20.7	California
	Pansies/Violas	Baskets	371	34.2	North Carolina
	Other Flowering and Foliar	Baskets	1,720	11.7	North Carolina
	Geraniums – Cutting	Flats	66	18.3	California
	Geraniums – Cutting	Potted	3,388	9.5	California
	Vegetable type bedding plants	Flats	852	17.5	California
<b>3</b>	Apples	Pounds	1,150,000	11.6	Washington
	Asparagus	Cwt	235	26.1	California
	Geraniums – Seed	Flats	56	13.1	Ohio
	Geraniums – Seed	Baskets	81	17.5	Illinois
	Cucumbers (fresh market)	Cwt	968	11.1	Florida
	Beans, snap (processing)	Tons	65.2	8.0	Wisconsin
<b>4</b>	Beans, dry, dark red kidney	Cwt	22	2.6	Minnesota
	Beans, dry, light red kidney	Cwt	139	14.4	Minnesota
	Sugarbeets	Tons	3,318	11.2	Minnesota
	Cherries, sweet	Tons	28.7	6.7	Washington
	Grapes, Concord	Tons	45.4	11.4	Washington
	Plums	Tons	2.9	1.0	California
	Grapes, all	Tons	96.5	1.3	California
<b>5</b>	Maple syrup	Gallons	115	4.2	Vermont
<b>6</b>	Pumpkins	Cwt	737	7.9	Illinois
	Peaches	Tons	17.2	1.6	California
<b>8</b>	Milk	Pounds	7,968,000	4.2	California
<b>9</b>	Potatoes	Cwt	15,660	3.6	Idaho
<b>11</b>	Corn for grain	Bushels	310,800	2.4	Iowa
<b>12</b>	Soybeans	Bushels	79,600	2.4	Iowa
<b>13</b>	Hogs, as of Dec. 1, 2009	Head	1,080	1.6	Iowa
	Wheat, winter	Bushels	38,640	2.5	Kansas
<b>19</b>	Cash receipts	Dollars	5,579,184	2.0	California
<b>26</b>	Hay, all	Tons	2,482	1.7	California
<b>28</b>	Cattle, as of Jan. 1, 2010	Head	1,100	1.2	Texas

**Number of farms and land in farms by economic sales class, 2005-2009 <sup>1</sup>**

Year	Economic sales class					Total	Average size of farm
	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000+		
	<i>1,000 farms</i>						
2005	31.1	15.0	3.2	1.8	1.9	53.0	
2006	31.1	14.8	3.3	1.8	2.0	53.0	
2007	33.1	14.8	3.5	2.1	2.5	56.0	
2008	32.3	14.5	3.6	2.1	2.5	55.0	
2009	32.1	14.4	3.5	2.2	2.6	54.8	
	<i>Million acres</i>	<i>Acres</i>					
2005	1.90	2.50	1.60	1.60	2.50	10.10	191
2006	1.85	2.40	1.60	1.60	2.65	10.10	191
2007	1.85	2.10	1.35	1.40	3.30	10.00	179
2008	1.80	2.00	1.40	1.40	3.40	10.00	182
2009	1.70	1.90	1.30	1.50	3.60	10.00	182

<sup>1</sup> USDA estimates of farm number and land in farms are based on the definition "a farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year."

**Farm real estate: Values and cash rents, 2006-2010**

Year	Farm real estate average value per acre	Cropland		Pasture
		Average value per acre	Average cash rent per acre	Average value per acre
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2006	3,370	2,900	65	2,070
2007	3,760	3,280	73	2,450
2008	3,900	3,480	78	2,630
2009	3,750	3,370	81	2,550
2010	3,650	3,300	81	2,400

**Farm Income**

Net farm income in 2009 fell 42 percent from last year to \$1.14 billion. That includes \$180 million of government payments. The total agriculture output was \$6.67 billion dollars, down 12 percent from 2008. Production expenses were \$3.53 billion in 2009, down 4 percent from the previous year.

Preliminary cash receipts from 2009 marketings of Michigan crops, livestock and livestock products totaled \$5.58 billion, down

15 percent from 2008. Michigan ranked 19 nationally in total cash receipts.

Crop receipts, \$3.67 billion, were down 9 percent from 2008. Livestock cash receipts were down 25 percent from a year earlier to \$1.90 billion.

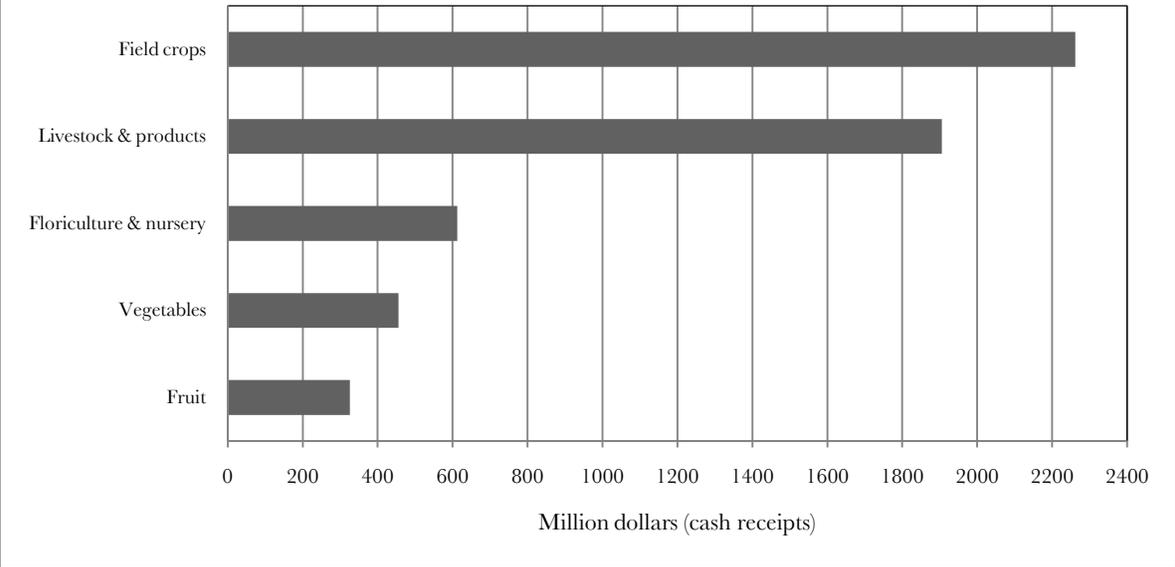
In 2009, the top ten Michigan commodities ranked by cash receipts were milk, corn, soybeans, floriculture, cattle and calves, poultry and eggs, hogs, wheat, sugarbeets, and potatoes.

**Government payments, 2005-2009 <sup>1</sup>**

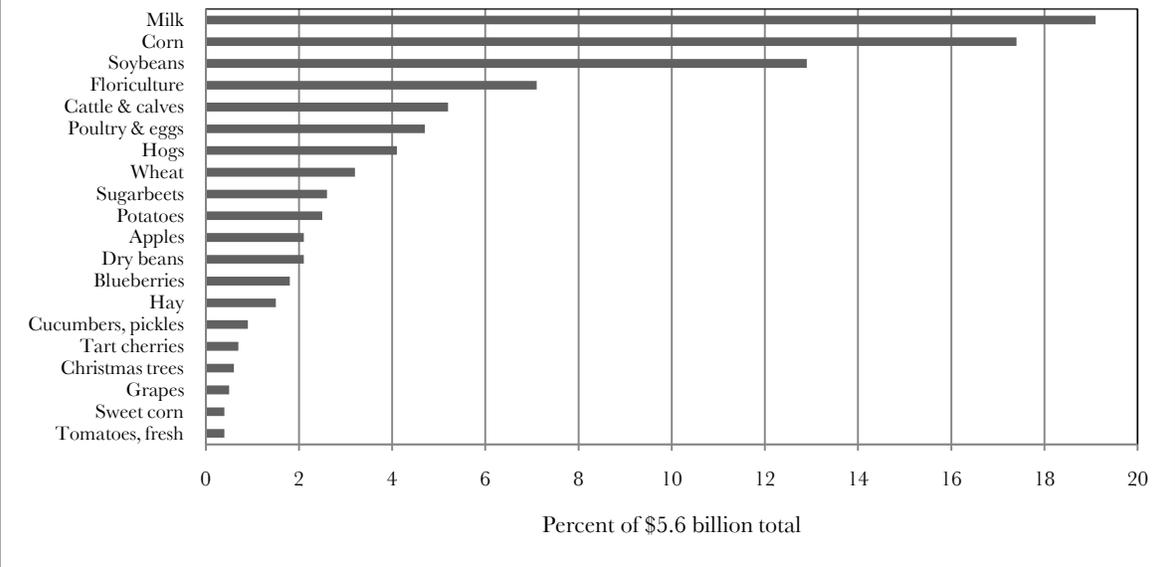
Program	2005	2006	2007	2008	2009
	<i>1,000 dollars</i>				
Conservation programs	41,846	51,279	45,926	49,047	43,590
Production flexibility contract payments	-2	NA	NA	NA	NA
Direct payments	89,782	85,952	86,970	86,691	79,012
Counter-cyclical payments	70,996	72,304	179	2	-24
Loan deficiency payments	129,548	15,570	64	13	49
Miscellaneous programs	7,100	1,891	-63	47	0
Ad Hoc and emergency programs	47,859	1,829	3,300	30,540	16,169
Milk income loss payments	542	18,816	3,868	2	40,828
Total	387,671	247,641	140,244	166,342	179,624

<sup>1</sup> Source: U.S. Department of Agriculture, Economic Research Service.

### Major Michigan Commodity Groups, 2009



### Top 20 Commodities in Cash Receipts, 2009



**Value added to the economy by the Michigan agricultural sector 2005-2009 <sup>1</sup>**

Item <sup>2</sup>	2005	2006	2007	2008	2009
	<i>Million dollars</i>				
Value of crop production	2,516.6	2,943.2	3,307.5	4,122.0	3,727.4
Food grains	117.1	148.6	188.0	237.3	179.4
Feed crops	463.5	664.2	871.0	1,266.6	1,063.8
Oil crops	433.1	471.8	625.3	705.3	720.6
Fruits and tree nuts	277.2	344.3	418.9	381.5	325.7
Vegetables, potatoes, dry beans	407.0	449.1	483.7	581.5	571.0
All other crops	800.1	854.4	849.3	859.0	813.9
Home consumption	2.7	2.0	1.2	1.6	1.1
Value of inventory adjustment <sup>3</sup>	15.8	8.8	-129.9	89.1	51.8
Value of livestock production	1,777.2	1,708.8	2,424.6	2,538.6	1,953.8
Meat animals	512.1	503.8	580.5	639.0	522.4
Dairy products	1,035.7	943.0	1,497.2	1,485.7	1,064.0
Poultry and eggs	132.7	153.8	256.4	340.0	260.9
Miscellaneous livestock	52.9	59.4	66.4	64.4	58.2
Home consumption	7.1	7.5	9.5	9.2	10.2
Value of inventory adjustment <sup>3</sup>	36.8	41.4	14.5	0.4	38.2
Revenues from services and forestry	813.6	882.6	805.6	939.3	992.7
Machine hire and custom work	53.2	31.7	35.5	28.2	51.4
Forest products sold	11.9	11.9	14.0	14.0	14.0
Other farm income	197.2	208.8	178.7	273.0	290.6
Gross imputed rental value-farm dwellings	551.4	630.1	577.5	624.1	636.7
Value of agricultural sector production	5,107.5	5,534.6	6,537.7	7,599.9	6,674.0
<b>less:</b> Purchased inputs	2,520.3	2,604.1	3,445.9	3,688.7	3,529.5
Farm origin	794.3	874.7	1,147.0	1,232.6	1,192.8
Feed purchased	421.3	512.5	727.3	693.4	655.9
Livestock and poultry purchased	65.9	70.1	73.4	77.4	51.9
Seed purchased	307.1	292.0	346.4	461.9	484.9
Manufactured inputs	768.9	804.8	1,062.7	1,309.0	1,197.0
Fertilizers and lime	298.1	302.3	448.0	607.3	554.0
Pesticides	195.8	199.7	241.5	269.9	265.2
Petroleum fuel and oils	216.9	242.7	297.5	353.5	286.4
Electricity	58.1	60.1	75.8	78.3	91.4
Other purchased inputs	957.0	924.6	1,236.1	1,147.1	1,139.7
Repair and maintenance of capital items	258.2	278.1	316.3	347.1	373.9
Machine hire and custom work	75.2	64.0	88.3	87.0	99.1
Marketing, storage, and transp. expenses	147.5	133.1	165.4	141.0	166.4
Contract labor	15.7	16.6	26.4	14.7	20.5
Miscellaneous expenses	460.5	432.9	639.7	557.3	479.9
<b>plus:</b> Net government transactions	156.9	-17.2	-111.5	-93.5	-92.2
<b>plus:</b> Direct Government payments	387.7	247.6	140.2	166.3	179.6
<b>less:</b> Motor vehicle reg. and licensing fees	8.4	9.7	10.9	9.4	11.8
<b>less:</b> Property taxes	222.4	255.1	240.8	250.4	260.1
Gross value added	2,744.1	2,913.3	2,980.4	3,817.7	3,052.3
<b>less:</b> Capital consumption	719.9	758.6	784.6	827.8	871.4
Net value added	2,024.2	2,154.6	2,195.8	2,989.9	2,180.9
<b>less:</b> Payments to stakeholders	781.5	855.7	1,087.2	1,023.4	1,035.6
Employee compensation (total hired labor)	496.2	519.6	756.0	681.4	675.1
Net rent received by nonoperator landlords	61.7	81.2	61.8	71.1	89.0
Real estate and nonreal estate interest	223.6	255.0	269.3	270.8	271.5
<b>Net farm income</b>	1,242.7	1,298.9	1,108.7	1,966.5	1,145.3

<sup>1</sup> Source: U.S. Department of Agriculture, Economic Research Service.

<sup>2</sup> Value of agricultural sector production is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the National economy and is the sum of the income from production earned by all factors-of-production, regardless of ownership. Net farm income is the farm operator's share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development.

<sup>3</sup> A positive value of inventory change represents current-year production not sold by December 31. A negative value is an offset to production from prior years included in current-year sales.

**Cash receipts by commodity groups and selected commodities 2005-2009 <sup>1</sup>**

Item	2005	2006	2007	2008	2009
	<i>1,000 dollars</i>				
<b>Total cash receipts</b>	4,231,449	4,592,406	5,836,719	6,560,309	5,579,887
<b>Total livestock and products</b>	1,733,314	1,659,939	2,400,533	2,529,030	1,905,433
Meat animals	512,088	503,763	580,497	638,992	522,424
Cattle and calves	277,781	294,627	343,331	384,942	288,659
Hogs	229,852	205,669	233,132	249,776	229,612
Sheep and lambs	4,455	3,467	4,034	4,274	4,153
Dairy (milk)	1,035,650	942,970	1,497,200	1,485,696	1,063,960
Poultry and eggs	132,652	153,771	256,397	339,972	260,871
Eggs	61,870	73,097	155,371	211,524	149,883
Turkeys	63,825	69,654	88,210	( <sup>2</sup> )	( <sup>2</sup> )
Other	6,957	11,020	12,816	128,448	110,988
Miscellaneous livestock	52,924	59,435	66,439	64,370	58,178
Honey	4,155	4,554	5,484	7,464	5,980
Mink pelts	2,379	3,380	2,640	3,456	1,835
Other	46,390	51,501	58,315	53,450	50,363
<b>Total crops</b>	2,498,135	2,932,467	3,436,186	4,031,279	3,674,454
Field crops	1,226,995	1,529,157	1,946,259	2,556,645	2,261,629
Corn	371,784	577,864	802,910	1,162,856	971,846
Dry beans	75,979	75,431	97,168	140,245	115,479
Hay	87,008	82,352	61,809	95,946	85,833
Soybeans	432,343	470,922	624,176	704,165	719,912
Sugarbeets	111,387	135,774	125,532	171,732	145,992
Wheat	116,029	147,556	186,547	234,735	177,000
Other	32,465	39,258	48,117	46,966	45,567
Vegetables	331,030	373,674	386,547	441,280	455,522
Asparagus	12,006	14,866	16,092	18,516	16,553
Beans, snap	23,135	17,523	18,465	15,978	20,540
Carrots	18,666	18,249	14,988	18,746	( <sup>2</sup> )
Celery	10,493	19,920	12,334	14,705	14,898
Corn, sweet	16,000	16,830	14,652	16,991	23,624
Cucumbers, fresh	14,976	16,354	15,358	14,117	18,586
Cucumbers, pickles	26,611	33,492	42,665	41,602	49,010
Onions	8,128	9,073	12,310	9,885	12,939
Peppers, green, fresh	9,016	9,828	12,870	12,000	11,520
Potatoes	94,739	103,222	100,227	142,947	138,355
Pumpkins	9,048	9,405	8,556	15,283	10,318
Squash	16,337	14,459	13,538	12,144	11,739
Tomatoes, fresh	16,720	23,000	24,794	24,570	21,000
Other	55,155	67,453	79,698	83,796	106,440
Fruit	277,214	344,324	418,909	381,545	325,726
Apples	90,298	109,834	128,179	129,897	118,704
Blueberries	83,500	149,655	165,456	124,000	101,850
Grapes	21,518	9,242	28,044	27,197	27,586
Peaches	7,982	13,066	16,298	9,052	12,075
Strawberries	4,878	6,285	5,028	5,846	6,615
Sweet cherries	16,732	15,492	17,709	16,144	13,666
Tart cherries	47,555	34,697	50,905	63,030	37,981
Other	4,751	6,053	7,290	6,379	7,249
Miscellaneous crops	13,994	14,792	16,711	18,309	19,175
Floriculture and nursery	648,902	670,520	667,760	633,500	612,402

<sup>1</sup> Source: U.S. Department of Agriculture, Economic Research Service.

<sup>2</sup> Not published to avoid disclosure of individual operations.

**Corn production costs and returns, excluding direct Government payments, 2008-2009**

Item	United States		Northern Crescent <sup>1</sup>	
	2008	2009	2008	2009
	<i>Dollars per planted acre</i>			
Gross value of production	629.36	561.22	476.92	447.8
Operating costs				
Seed	60.02	78.92	61.29	80.61
Fertilizer <sup>2</sup>	139.18	132.53	158.09	150.28
Chemicals	25.19	28.23	22.34	24.99
Custom operations	10.98	11.98	13.59	14.8
Fuel, lube, and electricity	42.64	29.12	41.11	27.98
Repairs	15.37	15.69	15.5	15.8
Purchased irrigation water	0.14	0.14	0.02	0.02
Interest on operating capital	2.17	0.43	2.31	0.46
Total, operating costs	295.69	297.04	314.25	314.94
Allocated overhead				
Hired labor	2.37	2.41	3.36	3.43
Opportunity cost of unpaid labor	25.12	25.67	35.26	36.03
Capital recovery of machinery and equipment	76.36	81.48	73.13	78.03
Opportunity cost of land (rental rate)	107.37	116.1	90.98	98.15
Taxes and insurance	8.29	9.48	11.35	12.92
General farm overhead	14.18	14.49	19.43	19.81
Total, allocated overhead	233.69	249.63	233.51	248.37
Total, costs listed	529.38	546.67	547.76	563.31
Value of production less total costs listed	99.98	14.55	-70.84	-115.51
Value of production less operating costs	333.67	264.18	162.67	132.86
Supporting information				
Yield (bushels per planted acre)	144	156	115	126
Price (dollars per bushel at harvest)	4.36	3.59	4.12	3.53
Enterprise size (planted acres) <sup>3</sup>	250	250	128	128
Production practices <sup>3</sup>				
Irrigated (percent)	12	12	5	5
Dryland (percent)	88	88	95	95

<sup>1</sup> Includes NE Minnesota, Wisconsin, Michigan, NE Ohio, Central Maryland, most of Pennsylvania, New Jersey, New York, and New England.

<sup>2</sup> Includes soil conditioners and manure.

<sup>3</sup> Developed from survey base year, 2005.

**Soybean production costs and returns, excluding direct Government payments, 2008-2009**

Item	United States		Northern Crescent <sup>1</sup>	
	2008	2009	2008	2009
	<i>Dollars per planted acre</i>			
Gross value of production	446.45	438.96	393.8	418.26
Operating costs				
Seed	44.35	55.26	46.55	57.94
Fertilizer <sup>2</sup>	25.12	23.96	36.1	34.36
Chemicals	15.73	17.26	14.8	16.22
Custom operations	6.56	7.17	8.58	9.35
Fuel, lube, and electricity	20.2	13.48	17.92	11.88
Repairs	12.91	13.22	11.18	11.4
Purchased irrigation water	0.12	0.14	0	0
Interest on operating capital	2.8	0.19	3.03	0.2
Total, operating costs	127.79	130.67	138.16	141.35
Allocated overhead				
Hired labor	2.07	2.09	1.25	1.25
Opportunity cost of unpaid labor	16.77	16.82	17.88	17.88
Capital recovery of machinery and equipment	70.98	75.88	60.84	64.92
Opportunity cost of land (rental rate)	94.58	108.98	77.54	89.62
Taxes and insurance	9.64	10.84	11.97	13.43
General farm overhead	14.29	14.57	18.44	18.8
Total, allocated overhead	208.35	229.19	187.92	205.9
Total, costs listed	336.13	359.86	326.08	347.25
Value of production less total costs listed	110.32	79.1	67.72	71.01
Value of production less operating costs	318.66	308.29	255.64	276.91
Supporting information				
Yield (bushels per planted acre)	43	47	38	42
Price (dollars per bushel at harvest)	10.48	9.3	10.46	9.9
Enterprise size (planted acres) <sup>3</sup>	303	303	164	164
Production practices <sup>3</sup>				
Irrigated (percent)	9	9	2	2
Dryland (percent)	91	91	98	98

<sup>1</sup> Includes NE Minnesota, Wisconsin, Michigan, NE Ohio, most of Pennsylvania, New Jersey, New York, Central Maryland, and New England.

<sup>2</sup> Includes soil conditioners and manure.

<sup>3</sup> Developed from survey base year, 2006.

**Livestock and products: Marketing year average prices received by farmers, 2005-2009**

Year	All hogs per cwt	All beef per cwt <sup>1</sup>	Cows per cwt <sup>2</sup>	Steers and heifers per cwt	Milk cows per head <sup>3</sup>	Calves per cwt	Market eggs per doz	All milk wholesale per cwt	Turkeys per pound <sup>4</sup>
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2005	46.70	73.20	52.10	82.20	1,840	132.00	0.346	15.40	0.37
2006	42.00	71.90	49.10	81.60	1,930	134.00	0.366	13.30	0.39
2007	41.10	75.80	49.30	87.00	1,910	118.00	0.726	19.70	0.46
2008	42.50	77.10	52.00	87.80	2,200	99.90	0.956	19.20	
2009	37.00	68.70	45.80	78.50	1,550	88.60	0.672	13.40	

<sup>1</sup> Combined price for "Cows" and "Steers and Heifers."

<sup>2</sup> Beef cows and cull dairy cows sold for slaughter.

<sup>3</sup> Sold for dairy herd replacement only. Prices published January, April, July, and October.

<sup>4</sup> Data not available after 2007.

**Livestock and products: Monthly prices received by farmers, 2009-2010**

Month	Beef cattle per cwt <sup>1</sup>	Cows per cwt <sup>2</sup>	Steers and heifers per cwt	Milk cows per head <sup>3</sup>	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2009							
January	70.60	44.00	82.00	1,850	86.00	0.900	15.00
February	68.10	45.00	78.00		88.00	0.620	12.30
March	68.10	45.00	78.00		93.00	0.640	12.00
April	70.10	47.00	80.00	1,550	98.00	0.740	12.40
May	71.40	49.00	81.00		98.00	0.390	12.20
June	69.40	47.00	79.00		93.00	0.370	12.00
July	69.00	48.00	78.00	1,450	91.00	0.510	12.00
August	68.00	47.00	77.00		91.00	0.580	12.50
September	67.70	46.00	77.00		86.00	0.570	13.40
October	67.40	45.00	77.00	1,350	81.00	0.640	14.60
November	66.80	43.00	77.00		79.00	0.890	15.60
December	67.80	44.00	78.00		79.00	0.900	16.60
2010							
January	70.70	49.00	80.00	1,400	80.00		16.90
February	74.00	53.00	83.00		82.00		16.70
March	77.80	54.00	88.00		85.00		15.70
April	81.50	57.00	92.00	1,400	90.00		15.00
May	81.80	58.00	92.00		98.00		15.50
June	79.80	58.00	90.00		97.00		16.50
July	78.40	56.00	88.00	1,400	97.00		16.70
August							
September							
October							
November							
December							

<sup>1</sup> Combined price for "Cows" and "Steers and Heifers."

<sup>2</sup> Beef cows and cull dairy cows sold for slaughter.

<sup>3</sup> Sold for dairy herd replacement only. Prices published January, April, July, and October.

**Dry edible beans: Percent of sales by month, 2004-2009**

Month	2004-05	2005-06	2006-07	2007-08	2008-09
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
September	31	23	25	18	25
October	20	29	23	28	38
November	4	6	9	13	6
December	5	6	3	6	3
January	3	5	4	4	4
February	5	3	2	3	4
March	5	3	2	3	2
April	3	1	3	3	1
May	1	2	2	3	1
June	2	7	25	2	2
July	2	1	1	1	1
August	19	14	1	16	13

**Corn: Percent of sales by month, 2004-2009**

Month	2004-05	2005-06	2006-07	2007-08	2008-09
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
October	11	17	11	14	9
November	21	13	25	16	16
December	12	9	11	9	10
January	11	11	13	11	10
February	7	8	7	7	7
March	5	6	4	6	8
April	4	8	5	8	7
May	5	6	4	5	9
June	7	5	6	7	7
July	6	5	5	7	5
August	6	6	4	4	6
September	5	6	5	6	6

**Hay: Percent of sales by month, 2004-2009**

Month	2004-05	2005-06	2006-07	2007-08	2008-09
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
June	14	14	14	15	14
July	12	15	15	13	16
August	9	13	13	12	13
September	6	13	13	8	11
October	6	13	13	6	10
November	8	5	5	6	5
December	9	5	5	8	5
January	10	5	5	8	6
February	9	5	5	7	6
March	7	4	4	6	5
April	6	4	4	6	5
May	4	4	4	5	4

**Oats: Percent of sales by month, 2004-2009**

Month	2004-05	2005-06	2006-07	2007-08	2008-09
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
July	2	26	13	17	2
August	28	40	43	40	53
September	32	3	7	10	8
October	3	2	5	4	2
November	2	2	1	2	1
December	4	3	5	4	2
January	3	5	6	5	5
February	4	7	5	1	3
March	4	6	8	2	4
April	5	3	3	4	5
May	4	1	1	1	4
June	9	2	3	10	11

**Soybeans: Percent of sales by month, 2004-2009**

Month	2004-05	2005-06	2006-07	2007-08	2008-09
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
September	5	13	4	6	6
October	20	28	24	32	34
November	16	5	19	13	9
December	7	7	7	7	7
January	7	9	11	11	11
February	10	5	7	8	5
March	8	6	5	5	7
April	5	6	4	5	10
May	5	7	5	4	4
June	11	4	7	4	4
July	3	5	4	3	2
August	3	5	3	2	1

**Wheat: Percent of sales by month, 2004-2009**

Month	2004-05	2005-06	2006-07	2007-08	2008-09
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
July	41	48	53	75	47
August	18	19	16	14	26
September	10	8	7	4	5
October	4	3	7	1	1
November	4	2	1	1	1
December	3	3	2	2	2
January	4	4	4	1	3
February	8	5	2	1	2
March	4	4	3	0	4
April	2	1	2	1	3
May	1	2	1	0	4
June	1	1	2	0	2

**Crops: Marketing year average prices received by farmers, 2005-2009 <sup>1</sup>**

Marketing year	Corn per bushel	Winter wheat per bushel	Oats per bushel	Soybeans per bushel	Dry beans per cwt	Navy beans per cwt	Fall potatoes per cwt	All hay per ton	Alfalfa hay per ton
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2005	1.88	3.13	1.89	5.73	19.60	NA	7.95	90.00	92.00
2006	3.10	3.41	1.93	6.27	21.10	NA	8.35	94.00	97.00
2007	4.37	5.01	2.91	9.69	31.90	NA	8.45	124.00	127.00
2008	3.84	5.63	3.40	9.82	36.30	NA	10.10	153.00	156.00
2009	3.60	4.25	2.25	9.40	32.90	NA	10.50	119.00	127.00

<sup>1</sup> Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings during specific periods. Prices do not include allowance for CCC loans outstanding, purchases by the government, or deficiency payments.

**Crops: Monthly prices received by farmers, 2008-2009 marketing years**

2008-2009 Marketing years	Corn per bushel	Winter wheat per bushel	Oats per bushel	Soybeans per bushel	Dry beans per cwt	Navy beans per cwt <sup>2</sup>	Fall potatoes per cwt	All hay per ton	Alfalfa hay per ton
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2008									
June								158.00	160.00
July		5.90	3.93					152.00	155.00
August		6.05	3.52				10.40	153.00	155.00
September		5.50	3.28	10.20	39.40	38.50	9.20	141.00	145.00
October	4.16	4.47	3.39	9.79	37.90	37.10	10.30	152.00	155.00
November	4.05	4.74	3.45	9.17	36.00	34.20	9.80	156.00	160.00
December	3.95	4.34	2.91	9.06	30.90	29.10	10.20	162.00	165.00
2009									
January	4.12	4.98	4.19	9.74	34.40	33.80	10.20	156.00	160.00
February	3.67	4.36	3.54	9.63	31.30	25.20	10.20	152.00	155.00
March	3.67	4.62	2.61	9.09	30.80	24.10	10.00	147.00	150.00
April	3.76	4.48	3.04	9.89	33.90	24.50	11.40	148.00	150.00
May	3.87	4.80	2.69	10.80	34.70	24.70	11.80	162.00	165.00
June	4.01	4.69	3.14	11.60	31.70	27.80	( <sup>1</sup> )		
July	3.41			11.00	29.10	25.80			
August	3.35			11.00	31.40				
September	3.33								
2009									
June								110.00	115.00
July		4.59	2.57				10.40	111.00	120.00
August		4.28	2.08				8.95	106.00	120.00
September		3.11	2.10	10.10	33.20		9.15	110.00	120.00
October	3.37	4.31	2.17	9.42	32.50		9.25	109.00	125.00
November	3.52	4.56	2.26	9.47	33.30		10.30	121.00	130.00
December	3.48	4.64	2.56	9.91	35.60		10.80	126.00	135.00
2010									
January	3.56	3.94	2.53	9.67	34.90		11.20	129.00	140.00
February	3.32	4.39	2.66	9.50	35.80		11.30	130.00	140.00
March	3.35	4.68	2.63	9.40	35.60		11.90	130.00	140.00
April	3.32	4.34	2.86	9.50	36.60		12.40	129.00	135.00
May	3.43	4.39	2.84	9.53	33.80		12.10	130.00	135.00
June	3.45	4.20	2.67	9.49	28.50		( <sup>1</sup> )		
July	3.55			9.80	32.90				
August									
September									

<sup>1</sup> Insufficient sales to establish a price.

<sup>2</sup> Not published after July 2009.

**Prices paid by farmers, 2006-2010 <sup>1</sup>**

Item	Unit	2006	2007	2008	2009	2010
		<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Dairy feed, 16% protein <sup>2</sup>	Ton	216	241	310	295	265
Hog concentrate, 38-42% protein <sup>2</sup>	Ton	342	366	493	473	405
Soybean meal, 44% protein <sup>2</sup>	Cwt	13.1	14.4	22.1	20.1	20.4
Gasoline, unleaded, bulk <sup>2</sup>	Gallon	2.59	2.618	3.267	1.985	2.844
Diesel fuel <sup>2</sup>	Gallon	2.29	2.47	3.613	1.688	2.565
Tractor, 110-129 hp <sup>3</sup>	Each	70,900	74,000	76,100	77,700	78,000
Tractor, 200-280 hp, 4-wd <sup>3</sup>	Each	150,000	154,000	176,000	195,000	198,000
Planter, row crop, 8-row <sup>3</sup>	Each	34,100	33,500	38,000	40,200	42,900
Grain drill, press, 23-25 openers <sup>3</sup>	Each	25,200	26,100	26,900	32,400	36,600
Combine, self-prop. w/ grain head, large cap. <sup>3</sup>	Each	201,000	213,000	230,000	253,000	257,000
Ammonium nitrate <sup>4</sup>	Ton	427	364	504	406	416
Muriate of potash 60-62% K <sub>2</sub> O <sup>4</sup>	Ton	271	277	562	848	501
Superphosphate, 44-46% P <sub>2</sub> O <sub>5</sub> <sup>4</sup>	Ton	315	409	779	555	465
Anhydrous ammonia <sup>4</sup>	Ton	543	536	769	787	520
Atrazine, 4#/gallon <sup>3</sup>	Gallon	12.1	12.2	15.3	20.8	18.9
Roundup, 4#/gallon EC <sup>3</sup>	Gallon	29.3	28.9	40.5	42.8	22.8
Harness, Surpass, 6.4-7#/gallon EC <sup>3</sup>	Gallon	68.9	69.2	71.7	75.5	70.3
Dual, 8#/gallon EC <sup>3</sup>	Gallon	107	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Captan, 50% WP <sup>3</sup>	Pound	3.87	4.59	5.51	6.43	7.18
Ziram, 76% WP <sup>3</sup>	Pound	2.88	3.08	3.35	3.94	4.07
Guthion, 50% WP <sup>3</sup>	Pound	11.4	11.7	11.6	13.5	13.5
Imidan, Prolate, 50% WP <sup>3</sup>	Pound	8.44	9.05	8.92	10.2	10.2

EC=Emulsifiable concentrate. WP=Wettable powder.

<sup>1</sup> Regional and U.S. data only.

<sup>2</sup> Lake States region: Michigan, Minnesota, and Wisconsin.

<sup>3</sup> United States.

<sup>4</sup> North Central region: Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin.

<sup>5</sup> Discontinued in 2007.

## Farm Labor

### Hired farm workers: Annual average wage rates, 2005-2009

Year	All hired workers	Field workers	Field and livestock workers
	<i>Dollars per hour</i>	<i>Dollars per hour</i>	<i>Dollars per hour</i>
2005	9.79	8.57	8.89
2006	9.95	9.20	9.22
2007 <sup>1</sup>	10.87	10.12	10.01
2008	11.25	10.80	10.63
2009	11.22	10.82	10.57

<sup>1</sup> The January 2007 Farm Labor survey was not conducted due to budget constraints. Modeling of historical data and time-series analysis were used to generate estimates for the Lake States region (Michigan, Minnesota, and Wisconsin).

## Agricultural Exports

Michigan ranked twenty-first in agricultural exports for fiscal year 2009. The table below shows the value of agricultural exports by commodity group. The data are calculated annually by commodity based on each State's share of the U.S. agricultural

production. The top five commodity groups accounted for approximately 80 percent of the State's agricultural exports. The total value of agricultural exports produced in Michigan in 2009 was estimated at \$1.6 billion.

### Michigan agricultural exports: Fiscal year 2009 <sup>1 2</sup>

Commodity	Value	Percent of total	Rank in U.S.
	<i>Million dollars</i>	<i>Percent</i>	<i>Number</i>
Soybeans and products	419.7	27.1	12
Feed grains and products	258.7	16.7	13
Other <sup>3</sup>	236.3	15.3	12
Wheat and products	197	12.7	16
Vegetables and preparations	124.6	8	9
Fruits and preparations	124.4	8	5
Live animals and meat, excluding poultry	81.8	5.3	19
Feeds and fodders	32	2.1	33
Hides and skins	29.7	1.9	13
Seeds	18.8	1.2	18
Poultry and products	14	0.9	27
Fats, oils, and greases	11.6	0.8	13
Total	1,584.4		21

<sup>1</sup> Source: U.S. Department of Agriculture, Economic Research Service, [www.ers.usda.gov/data/fatus](http://www.ers.usda.gov/data/fatus).

<sup>2</sup> Based on location of farm where commodity is produced.

<sup>3</sup> Sugar and tropical product, minor oilseeds, essential oils, beverages other than juice, nursery and greenhouse, wine, and miscellaneous vegetable products.

### Michigan agricultural exports: Top 10 destinations, 2008-2009 <sup>1 2</sup>

Country	2008	2009
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	292,964	252,364
Mexico	32,527	54,754
Japan	15,613	29,208
Austria	11,667	7,694
Italy	9,518	6,739
France	1,736	3,227
South Korea	789	2,624
United Kingdom	6,259	2,213
Hungary	16	2,008
Spain	443	1,419

<sup>1</sup> Source: U.S. Department of Commerce, International Trade Administration, [www.ita.doc.gov](http://www.ita.doc.gov).

<sup>2</sup> Based on location of exporting firm.

## Agricultural Chemical Usage

Michigan statistics for on-farm use of agricultural chemicals are from the 2009 Fruit Chemical Use Survey conducted by USDA, NASS for 23 fruit crops in twelve states. Chemical use statistics for other states and pest management practices are available online at: [www.nass.gov/Statistics\\_by\\_Subject/Environmental/](http://www.nass.gov/Statistics_by_Subject/Environmental/)

The fertilizer use statistics for wheat in Michigan are from the 2009 Agricultural Resource Management Survey. Other information on fertilizer and chemical use on wheat are also available on the NASS website.

### Apples: Agricultural chemical applications, 2009 <sup>1</sup>

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, dimeth. salt	19	1.4	0.734	1.001	7,400
Diuron	9	1.5	1.077	1.592	5,300
Glyphosate iso. salt	41	1.3	0.782	1.016	15,800
Paraquat	4	1.3	0.588	0.736	1,100
Pendimethalin	9	1	1.434	1.45	4,900
Rimsulfuron	1	1	0.029	0.029	( <sup>2</sup> )
Simazine	2	1	1.297	1.297	1,000
Terbacil	3	1	0.484	0.498	600
<b>Insecticides</b>					
Abamectin	21	1.1	0.01	0.011	100
Acetamiprid	15	1.5	0.122	0.178	1,000
Azinphos-methyl	70	2.2	0.665	1.461	38,800
Benzoic acid	2	1.3	0.23	0.297	300
Carbaryl	35	1.3	0.933	1.258	16,700
Chlorantranilprole	45	1.9	0.064	0.123	2,100
Chlorpyrifos	69	1.4	0.997	1.434	37,700
Clofentezine	2	1	0.116	0.116	100
Cyfluthrin	8	1.1	0.032	0.035	100
Emamectin benzoate	6	1.1	0.013	0.014	( <sup>2</sup> )
Endosulfan	3	1.3	1.191	1.513	1,600
Esfenvalerate	43	1.3	0.038	0.05	800
Etoxazole	3	1.3	0.13	0.165	200
Fenpropathrin	10	1.2	0.303	0.359	1,400
Fenpyroximate	9	1	0.091	0.092	300
Gamma-cyhalothrin	2	1.6	0.015	0.023	( <sup>2</sup> )
Imidacloprid	40	1.4	0.061	0.083	1,300
Lambda-cyhalothrin	4	1.5	0.026	0.037	100
Methomyl	14	1.4	0.723	1.046	5,500
Novaluron	17	1.4	0.116	0.165	1,100
Petroleum distillate	8	1.2	15.894	19.155	57,700
Petroleum oil	7	1.1	5.023	5.543	15,400
Phosmet	38	2.1	1.369	2.821	41,200
Pyridaben	8	1.2	0.262	0.319	1,000
Spinetoram	37	1.6	0.08	0.125	1,700
Thiacloprid	19	1.3	0.153	0.206	1,500
Thiamethoxam	3	1.3	0.077	0.104	100

See footnote(s) at end of table.

--continued

**Apples: Agricultural chemical applications, 2009 <sup>1</sup> (continued)**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Fungicides</b>					
Basic copper sulfate	20	1.4	0.598	0.823	6,100
Boscalid	1	1.3	0.009	0.011	( <sup>2</sup> )
Calcium polysulfide	2	2.2	4.103	9.114	5,700
Captan	84	6.1	2.201	13.36	426,400
Copper hydroxide	23	1.3	1.486	1.886	16,500
Copper oxychloride	18	1.4	1.826	2.553	17,700
Copper sulfate	4	1.1	1.023	1.113	1,900
Cyprodinil	29	1.8	0.154	0.272	3,000
Difenoconazole	34	1.8	0.068	0.123	1,600
Dodine	5	1.6	1.252	1.953	3,900
Fenarimol	5	3.4	0.047	0.16	300
Fenbuconazole	23	1.9	0.095	0.18	1,600
Kresoxim-methyl	20	2	0.12	0.241	1,800
Mancozeb	74	4.1	2.719	11.139	312,900
Metiram	13	3.4	2.754	9.25	44,300
Myclobutanil	38	2.2	0.095	0.208	3,000
Oxytetracycline	10	1.5	0.183	0.279	1,100
Pyraclostrobin	1	1.3		0.001	( <sup>2</sup> )
Pyrimethanil	8	1.4	0.246	0.352	1,100
Streptomycin	26	1.7	0.19	0.327	3,200
Streptomycin sulfate	3	1	0.214	0.216	200
Sulfur	20	3.8	3.101	11.67	89,200
Thiophanate-methyl	20	1.9	0.325	0.62	4,600
Trifloxystrobin	40	1.9	0.063	0.117	1,800
Ziram	32	1.9	3.168	6.065	74,200
<b>Other chemicals</b>					
Benzyladenine	11	1.1	0.059	0.062	300
Butenoic Acid Hydro	4	1.1	0.071	0.079	100
Dodecadien-1-OL	3	1.6	0.029	0.046	100
Gibberellic acid	5	2	0.005	0.01	( <sup>2</sup> )
Gibberellins A4A7	2	1	0.026	0.026	( <sup>2</sup> )
NAA, Potassium salt	4	1.6	0.07	0.111	200
NAA, Sodium	17	1.5	0.023	0.036	200
Prohexadione calcium	19	1.8	0.184	0.335	2,400
Spirodiclofen	24	1.1	0.206	0.235	2,100

<sup>1</sup> Bearing acres in 2009 were 38,000 acres.

<sup>2</sup> Total applied is less than 50 lbs.

**Blueberries: Agricultural chemical applications, 2009 <sup>1</sup>**

Agricultural Chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
Diuron	19	1	1.397	1.429	5,000
Flumioxazin	2	1	0.144	0.144	100
Glyphosate iso. salt	13	1.2	0.542	0.629	1,500
Hexazinone	2	1.1	0.413	0.448	200
Mesotrione	22	1.1	0.121	0.129	500
Norflurazon	11	1.1	1.362	1.431	3,000
Oryzalin	2	1	1.279	1.279	400
Paraquat	7	1	0.405	0.42	600
Sethoxydim	1	1	0.262	0.262	100
Simazine	10	1.2	1.45	1.678	3,000
Terbacil	19	1.1	0.507	0.546	1,900
<b>Insecticides</b>					
Acetamiprid	11	1.9	0.098	0.19	400
Azinphos-methyl	34	1.3	0.532	0.704	4,400
Benzoic Acid	34	1.2	0.164	0.198	1,200
Carbaryl	13	1.7	1.458	2.481	6,100
Esfenvalerate	33	1.3	0.042	0.056	300
Imidacloprid	17	1.4	0.069	0.1	300
Malathion	19	1.9	1.943	3.64	12,600
Methomyl	16	1.4	0.513	0.74	2,200
Phosmet	69	2.1	0.877	1.835	23,400
Tebufozide	8	1.4	0.228	0.318	500
Zeta-Cypermethrin	45	1.5	0.033	0.049	400
<b>Fungicides</b>					
Azoxystrobin	8	1.1	0.157	0.177	300
Boscalid	45	1.4	0.019	0.028	200
Calcium polysulfide	19	1.1	2.461	2.608	9,000
Captan	30	2	2.095	4.265	23,800
Chlorothalonil	16	1.4	2.574	3.516	10,500
Cyprodinil	11	1.2	0.293	0.353	700
Fenbuconazole	85	2.1	0.09	0.19	3,000
Fludioxonil	11	1.2	0.195	0.235	500
Fosetyl-al	9	1.1	3.99	4.322	7,100
Phosphorous Acid	6	1.1	1.741	1.92	2,100
Pyraclostrobin	71	1.9	0.091	0.176	2,300
Ziram	56	1.7	2.774	4.757	48,900

<sup>1</sup> Bearing acres in 2009 for Michigan were 18,500 acres.

**Cherries, sweet: Agricultural chemical applications, 2009 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, dimeth. salt	12	1.3	0.561	0.756	600
Glyphosate iso. salt	34	1.2	0.679	0.814	1,900
Paraquat	3	1.2	0.825	1.008	200
Pendimethalin	2	1	0.733	0.733	100
Rimsulfuron	1	1	0.013	0.013	( <sup>2</sup> )
Simazine	3	1	0.863	0.863	200
<b>Insecticides</b>					
Azinphos-methyl	60	1.9	0.508	0.962	4,100
Chlorpyrifos	3	1.1	0.89	0.96	200
Cyfluthrin	5	1	0.024	0.024	( <sup>2</sup> )
Esfenvalerate	42	1.5	0.036	0.052	200
Fenpropathrin	3	1	0.197	0.197	( <sup>2</sup> )
Imidacloprid	10	1.4	0.094	0.13	100
Lambda-Cyhalothrin	5	1.6	0.028	0.044	( <sup>2</sup> )
Phosmet	3	3	1.131	3.398	800
Thiamethoxam	27	1.3	0.06	0.081	200
<b>Fungicides</b>					
Boscalid	42	1.5	0.009	0.014	( <sup>2</sup> )
Calcium polysulfide	16	2.3	4.192	9.442	10,400
Captan	41	1.9	1.873	3.572	10,200
Chlorothalonil	62	2.1	1.789	3.835	16,600
Copper hydroxide	4	1	0.863	0.898	300
Copper oxychloride	4	1.2	1.88	2.22	700
Copper sulfate	3	1.2	0.515	0.622	100
Fenbuconazole	71	2.3	0.091	0.213	1,100
Myclobutanil	3	1.5	0.12	0.18	( <sup>2</sup> )
Propiconazole	10	1	0.123	0.128	100
Pyraclostrobin	42	1.5		0.001	( <sup>2</sup> )
Sulfur	69	4	4.026	16.034	77,600
Tebuconazole	36	2	0.168	0.339	800
Thiophanate-methyl	8	1.2	0.919	1.129	600
Trifloxystrobin	19	1.8	0.051	0.09	100
Ziram	40	1.6	2.353	3.812	10,600
<b>Other chemicals</b>					
Ethephon	71	1.1	0.418	0.454	2,300
Spirodiclofen	4	1.2	0.149	0.178	100

<sup>1</sup> Bearing acres in 2009 for Michigan were 7,000 acres.

<sup>2</sup> Total applied is less than 50 lbs.

**Cherries, tart: Agricultural chemical applications, 2009 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
Glyphosate iso. salt	33	1.2	0.588	0.676	5,900
Paraquat	4	1.3	0.884	1.14	1,000
Rimsulfuron	1	1	0.018	0.018	( <sup>2</sup> )
Simazine	6	1.1	0.948	1.033	1,700
<b>Insecticides</b>					
Azinphos-methyl	61	2.2	0.404	0.895	14,300
Carbaryl	2	1.3	2.374	3.145	1,900
Chlorpyrifos	26	1.3	0.756	1.014	6,800
Esfenvalerate	31	1.4	0.03	0.041	300
Gamma-cyhalothrin	2	1	0.01	0.01	( <sup>2</sup> )
Imidacloprid	4	1.8	0.077	0.136	200
Kaolin	1	5.8	19.711	113.507	20,200
Lambda-cyhalothrin	4	1.5	0.018	0.026	( <sup>2</sup> )
Phosmet	63	1.8	0.98	1.717	28,100
Thiamethoxam	3	1.3	0.048	0.061	100
<b>Fungicides</b>					
Boscalid	46	1.9	0.008	0.015	200
Calcium polysulfide	6	1.7	1.659	2.739	4,600
Captan	42	2.1	1.393	2.972	32,300
Chlorothalonil	74	3.3	1.636	5.373	103,200
Copper hydroxide	3	1.7	1.194	1.974	1,700
Copper sulfate	2	1	0.948	0.97	600
Cyprodinil	2	1	0.158	0.158	100
Fenbuconazole	31	1.9	0.08	0.155	1,300
Iprodione	2	1.4	0.635	0.861	500
Pyraclostrobin	46	1.9	( <sup>3</sup> )	0.001	( <sup>2</sup> )
Sulfur	68	4.2	2.755	11.654	207,300
Trifloxystrobin	52	1.9	0.053	0.098	1,300
Ziram	2	1.2	2.561	3.101	1,400
<b>Other chemicals</b>					
Ethephon	76	1.2	0.208	0.25	4,900
Spirodiclofen	5	1.1	0.167	0.19	200

<sup>1</sup> Bearing acres in 2009 for Michigan were 26,000 acres.

<sup>2</sup> Total applied is less than 50 lbs.

<sup>3</sup> Rate per acre is less than 0.0005 lbs.

**Peaches: Agricultural chemical applications, 2009 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, dimeth. salt	6	1	0.599	0.608	200
Diuron	5	1	1.369	1.369	300
Glyphosate iso. salt	16	1.2	0.73	0.871	600
Paraquat	19	1.1	0.462	0.523	400
Pendimethalin	7	1	1.255	1.274	400
Rimsulfuron	2	1	0.021	0.021	( <sup>2</sup> )
Simazine	5	1	0.739	0.739	200
Terbacil	7	1	0.407	0.407	100
<b>Insecticides</b>					
Azinphos-methyl	2	2.8	0.767	2.169	200
Carbaryl	16	1.5	1.299	1.937	1,300
Chlorpyrifos	15	1.3	1.285	1.677	1,100
Cyfluthrin	39	1.7	0.035	0.061	100
Endosulfan	5	1.2	0.837	0.99	200
Esfenvalerate	49	2.7	0.036	0.096	200
Fenpropathrin	7	1.5	0.258	0.396	100
Gamma-Cyhalothrin	15	2	0.016	0.031	( <sup>2</sup> )
Imidacloprid	56	1.6	0.07	0.112	300
Lambda-cyhalothrin	22	2.1	0.025	0.052	( <sup>2</sup> )
Methomyl	13	1.7	0.588	1.017	500
Permethrin	10	2.3	0.179	0.409	200
Phosmet	54	2.9	1.242	3.546	8,300
Spinetoram	6	1.1	0.081	0.089	( <sup>2</sup> )
Thiamethoxam	11	1.1	0.057	0.066	( <sup>2</sup> )
<b>Fungicides</b>					
Basic copper sulfate	18	1.2	1.183	1.446	1,100
Boscalid	7	1.9	0.009	0.018	( <sup>2</sup> )
Captan	40	3.8	1.524	5.819	10,000
Chlorothalonil	15	1.8	2.275	4.001	2,600
Copper hydroxide	14	1.7	1.295	2.205	1,300
Copper oxychloride	17	1.2	2.966	3.537	2,500
Dodine	16	3	0.325	0.99	700
Fenbuconazole	66	3.1	0.08	0.245	700
Iprodione	4	1	0.634	0.634	100
Myclobutanil	33	2.3	0.077	0.173	200
Oxytetracycline	19	3.5	0.228	0.797	700
Propiconazole	21	2.2	0.105	0.235	200
Pyraclostrobin	7	1.9		0.001	( <sup>2</sup> )
Sulfur	58	4.4	6.122	27.056	67,500
Tebuconazole	20	1.7	0.119	0.207	200
Thiophanate-methyl	6	2.4	0.448	1.077	300
Ziram	10	1.2	2.888	3.46	1,500
<b>Other chemicals</b>					
Spirodiclofen	3	1	0.254	0.256	( <sup>2</sup> )

<sup>1</sup> Bearing acres in 2009 for Michigan were 4,300 acres.

<sup>2</sup> Total applied is less than 50 lbs.

**Fertilizer applications: Winter wheat, 2009 <sup>1</sup>**

Fertilizer	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Nitrogen	96	1.8	46	82	48,000
Phosphate	58	1	48	48	17,000
Potash	67	1.1	66	76	31,000

<sup>1</sup> Planted acres in 2009 were 620,000.

**Commercial fertilizer consumption: 2004-2008 <sup>1</sup>**

Item	Year ending June 30				
	2004	2005	2006	2007	2008
	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>
<b>Primary plant nutrients</b>					
Total N	264,850	253,433	232,710	268,566	241,823
N in multi-nutrients	60,405	57,559	58,308	53,231	44,373
Total P <sub>2</sub> O <sub>5</sub>	94,352	82,885	85,746	81,110	74,767
P <sub>2</sub> O <sub>5</sub> in multi-nutrients	92,225	81,187	83,841	80,132	74,219
Total K <sub>2</sub> O	210,479	189,432	163,523	184,571	173,104
K <sub>2</sub> O in multi-nutrients	46,989	41,926	36,883	28,060	24,902
Total plant nutrients	569,680	525,751	481,979	534,247	489,694
Average analysis	41.1	37.7	41.3	41.1	40.8
Total nutrients in multi-nutrients	199,620	180,673	179,031	161,423	143,494
<b>Selected single-nutrient materials</b>					
Ammonium nitrate	6,619	7,501	5,168	2,899	3,085
Anhydrous ammonia	43,551	50,071	33,759	45,245	38,983
Nitrogen solutions	323,712	301,868	279,293	367,967	302,401
Urea	132,493	108,090	107,941	118,448	137,423
Ammonium sulfate	30,376	36,660	30,254	44,904	35,860
Concentrated superphosphate	4,139	3,716	4,189	1,866	945
Potassium chloride	259,011	234,700	203,398	250,800	235,815
<b>Multiple-nutrient fertilizers</b>					
N-P-K	294,691	227,081	245,713	205,901	198,596
N-P	142,136	134,719	143,185	147,526	131,150
N-K	33,024	44,437	56,456	59,737	60,093
P-K	3,129	2,926	2,536	1,934	592
<b>Leading multiple-nutrient grades</b>					
10-34-0	50,860	37,026	47,687	52,204	44,409
11-52-0	34,428	35,776	35,295	35,713	42,688
18-46-0	35,938	38,902	39,534	39,568	25,550
6-24-6	2,623	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	15,867
28-0-3	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	4,680	7,774
<b>Fertilizer consumption by classes</b>					
Dry bulk single-nutrient	472,774	430,495	380,147	442,432	429,052
Dry bagged single-nutrient	35,943	19,815	18,688	21,017	20,665
Fluid single-nutrient	373,002	362,722	319,143	422,173	358,642
Dry bulk multiple-nutrient	248,576	202,878	214,164	156,861	134,348
Dry bagged multiple-nutrient	150,598	137,291	145,636	160,428	155,401
Fluid multiple-nutrient	73,805	68,993	88,090	97,809	100,681
Organics, secondary and micronutrients	60,845	58,519	148,112	134,015	150,999
<b>Total</b>	1,415,544	1,280,715	1,313,980	1,434,734	1,349,788

<sup>1</sup> Source: The Association of American Plant Food Control Officials.

<sup>2</sup> Grade not published.

# Field Crops

## Growing Season Weather Summary

Dr. Jeff Andresen, Michigan State University

The 2009 growing season in Michigan was a major challenge to growers due to the combination of abnormally cool temperatures and several extended wet spells. Similar to the 2008 season, the 2009 growing season was preceded by a persistent high amplitude jet stream pattern characterized by large troughs across western and central North America set up just before Thanksgiving last fall and persisted into early March. Mean temperatures for the December through February winter months generally ranged from 2-5 degrees Fahrenheit (F.) below normal across the state. In terms of precipitation, winter totals generally ranged from near to slightly below normal levels across western sections of Upper Michigan to much above normal over large sections of the Lower Peninsula, where some areas received more than 200% of normal values. For the state as a whole, this past winter was among the wettest 10 percent of winters since 1895. Soil moisture levels at the beginning of April ranged from much above normal levels across southern and central sections of the state to drier than normal across some northern sections.

Wetter and somewhat cooler than normal weather during April and early May led to significant delays in spring fieldwork and planting across the region. As of the 10th of May, when historically more than half the corn crop is usually planted, only 18% had been planted (USDA/NASS, 2009). An upper air pattern shift led to warmer temperatures and more seasonable conditions during late May.

During early June an upper air pattern set up across North America that would persist for much of the remainder of June and much of July. In addition to the cooler than normal temperatures, the northwesterly upper air pattern also reduced the amount of Gulf of Mexico-origin moisture reaching the region. Precipitation totals for June and July generally fell to much below normal levels, with many western and northern sections of the state reporting less than 50% of normal rainfall. Following a cooler than normal June with mean temperatures generally from 0.5-2.5 degrees F. below normal. July mean temperatures across Michigan generally ranged from 3-6 degrees F. below normal, with an overall statewide mean only slightly warmer than the standing record set in 1992. Records for the coolest July on record were set at many individual sites across the Midwest. The cool weather slowed growth and development rates of almost all crops, and phenological development lagged more than two weeks behind historical averages by month's end.

During early August, the large upper air ridge that brought heat and dryness to much of the western U.S. temporarily moved eastward to the Midwest and east, providing somewhat warmer temperatures. Cooler weather returned in late August, with mean temperatures for the month generally remaining from 1-3 degrees F. below the climatological normals. In one of the most important weather developments during the season, an upper air ridging pattern set up across the central U.S. during early September, leading to an extended period of warmer and drier than normal weather. Mean temperatures for the month ranged from near to 3 degrees F. above normal, the only month of the season with above normal temperatures. Frost and freezing temperatures brought an end to the growing season in some scattered northern areas of the state on the 19th, and to much of the remainder of the state on the morning of October 1st. Some areas of the Saginaw Valley and Thumb regions of the state missed both these events and did not experience a killing freeze until the 11th of the month.

With a return of upper air troughing across the region, weather for crop maturation, field drydown, and early harvest was very poor during October. Mean temperatures fell back to below normal levels and precipitation totals surged well above the historical averages. Some western sections of the state reported more than 20 days of the month with precipitation, with very few if any fieldwork opportunities. Milder and drier than normal weather returned during early November and persisted through Thanksgiving, allowing growers to finally catch up with harvesting.

Overall for the 5-month May-September period, precipitation totals ranged from much below normal levels across northern sections of the state (the fifth consecutive year in which this has occurred) to near normal in eastern sections of the state. Mean temperatures and seasonal growing degree day accumulations were well below the climatological normals, with seasonal base 50 F. growing degree day accumulations generally remaining from 100 to more than 400 units below normal. The greatest departures from normal were observed in the northern sections of the state. The combination of cool temperatures and persistent wet weather early in the season resulted in many crops lagging far behind normal phenological stages throughout the season, and to unusually high grain moisture levels and drying costs at the end of the season.

**Field crops: Acres harvested and value of production, 2005-2009**

Item	Unit	2005	2006	2007	2008	2009
Acres harvested	1,000 acres	6,481	6,441	6,459	6,454	6,301
Value of production	1,000 dollars	1,684,860	2,281,287	2,790,551	2,977,525	2,828,657

**Grain storage capacity, December 1, 2005-2009**

Year	Off farm		On farm capacity
	Facilities	Rated capacity	
	<i>Number</i>	<i>Million bushels</i>	<i>Million bushels</i>
2005	215	148	250
2006	211	155	260
2007	210	160	270
2008	205	165	270
2009	203	165	270

**Field crops: Record highs and lows**

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Barley						
Harvested acres	1,000 acres	303	1932	10	2008	1866
Yield per acre	Bushels	68.0	1985	13.5	1933	
Production	1,000 bu	8,400	1918	460	2008	
Dry Edible beans						
Harvested acres	1,000 acres	690	1930	130	2001	1909
Yield per acre	Pounds	2,100	1999	396	1916	
Production	1,000 cwt	8,585	1963	780	2001	
Corn for grain						
Harvested acres	1,000 acres	2,800	1981	480	1866	1866
Yield per acre	Bushels	148.0	2009	21.5	1917	
Production	1,000 bu	309,320	2009	15,120	1869	
Corn for silage						
Harvested acres	1,000 acres	498	1971	210	2003	1924
Yield per acre	Tons	18.0	2004	4.7	1930	
Production	1,000 tons	5,565	1977	1,542	1930	
Hay, alfalfa						
Harvested acres	1,000 acres	1,444	1950	74	1919	1919
Yield per acre	Tons	4.2	1993	1.1	1934	
Production	1,000 tons	5,040	1985,1986	118	1919	
Hay, all						
Harvested acres	1,000 acres	2,947	1924	780	1866	1866
Yield per acre	Tons	3.8	1993	0.6	1895	
Production	1,000 tons	5,895	2004	1,014	1866	
Oats						
Harvested acres	1,000 acres	1,658	1918	55	2001,2007,2009	1866
Yield per acre	Bushels	70.0	2003	18.5	1921	
Production	1,000 bu	69,388	1946	3,080	2007	
Potatoes						
Harvested acres	1,000 acres	374.0	1895	36.4	1975	1866
Yield per acre	Cwt	360.0	2009	26.0	1887,1916	
Production	1,000 cwt	23,256	1904	3,557	1876	
Soybeans						
Harvested acres	1,000 acres	2,130	2001	1	1930	1924
Yield per acre	Bushels	46.0	2006	8.0	1927	
Production	1,000 bu	91,540	2006	10	1930	
Spearmint						
Harvested acres	1,000 acres	8.7	1954	0.7	1935	1935
Yield per acre	Pounds	65.0	2009	20.0	1965	
Production	1,000 lbs	280	1948	27	1996	
Sugarbeets						
Harvested acres	1,000 acres	190	1999	48	1943,1953	1909
Yield per acre	Tons	28.7	2008	5.5	1916	
Production	1,000 tons	3,903	2008	298	1943	
Wheat, winter						
Harvested acres	1,000 acres	1,515	1953	400	1987	1909
Yield per acre	Bushels	73.0	2006	10.5	1912	
Production	1,000 bu	48,990	2008	7,350	1912	

## Barley

Michigan barley growers planted 13,000 acres and harvested 11,000 acres in 2009. Total production was 561,000 bushels, up 22 percent from 2008. The average yield increased by 5 bushels to 51 bushels per acre. Barley planting began in April but was behind the five-year average. The crop benefitted from the cool, wet

temperatures early in the growing season. At the end of May, early planted fields were slightly damaged due to the abundance of moisture; late planted fields were not affected. The majority of the crop was in good condition throughout the growing season. Harvest began and was completed during the month of August.

**Barley: Acres, yield, production, and value, 2005-2009**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	15	11	47	517	1.80	931
2006	15	14	49	686	1.80	1,235
2007	14	13	51	663	2.50	1,658
2008	12	10	46	460	3.25	1,495
2009	13	11	51	561	2.80	1,571

<sup>1</sup> Marketing year average.

## Corn

There were 2.35 million acres planted to corn in 2009, down 50,000 acres from 2008. Grain corn production was 309.3 million bushels, up 5 percent from 2008; 2.09 million acres were harvested for grain. The record high yield of 148 bushels per acre was up 10 bushels per acre from the 2008 crop. Farmers harvested 220,000 acres of corn for silage; the average yield was 15.5 tons per acre.

Planting of corn in Michigan began in earnest about April 27, well behind normal. Wet cool conditions prevailed during May, and planting progress remained about 10 days behind average. Planting was done about June 10. Emergence was also well behind; by June 15 corn plants had not emerged on almost 5 percent of the acres; cumulative growing degree days were well behind normal for the northern half of the major corn growing area. About 70 percent of the crop was rated good to excellent in mid-June. Crop development was about ten days behind normal throughout the

growing season. There was plentiful rainfall across all major corn-growing areas throughout the year except in July. Rainfall in August, however, was above normal. There was virtually no heat stress. Sixty percent of the acreage was rated good or excellent at the outset of September. Michigan corn harvest began about October 1. Only about one-third of the crop was mature, well behind normal. Cold wet weather throughout October caused slow dry down of grain and difficulty combining in wet fields. Only 10 percent of acres were harvested November 1, about 3 weeks behind the average progress of 55 percent.

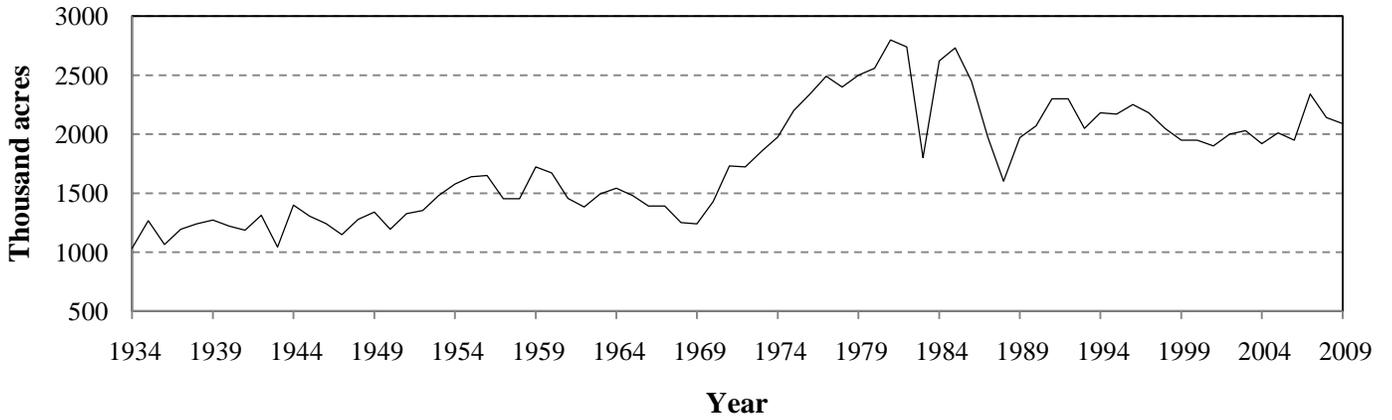
The 2009 corn crop was valued at \$1.12 billion, down 1 percent from 2008. Corn continued to be Michigan's number one crop in value of production. The top three counties in corn production were Huron, Saginaw, and Lenawee in 2009.

**Corn: Acres, yield, production, and value, 2005-2009**

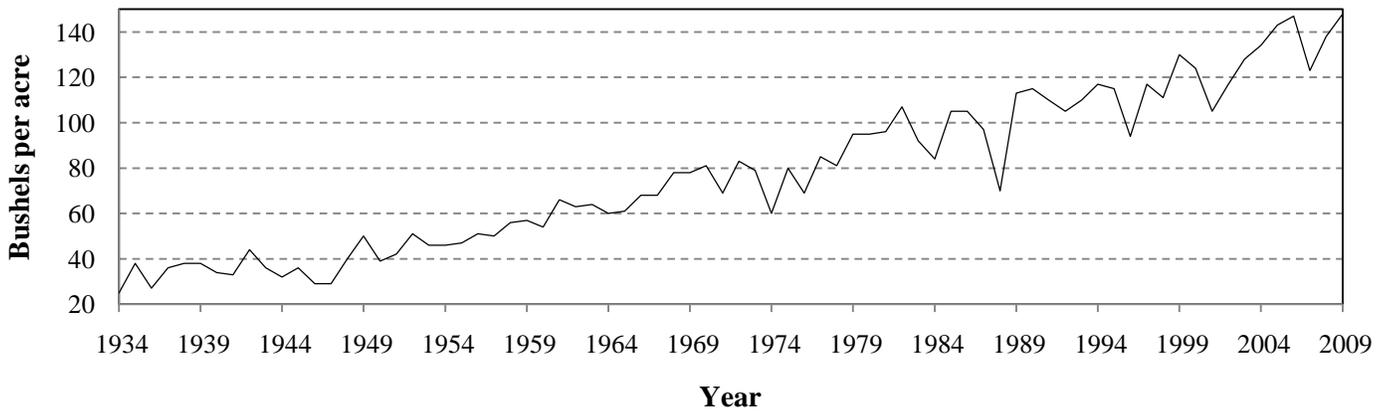
Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
All						
2005	2,250					
2006	2,200					
2007	2,650					
2008	2,400					
2009	2,350					
Grain						
2005		2,010	143	287,430	1.88	540,368
2006		1,950	147	286,650	3.10	888,615
2007		2,340	123	287,820	4.37	1,257,773
2008		2,140	138	295,320	3.84	1,134,029
2009		2,090	148	309,320	3.60	1,118,880
Silage						
2005		230	17.5	4,025		
2006		240	16.5	3,960		
2007		295	14.5	4,278		
2008		250	16.5	4,125		
2009		220	15.5	3,410		

<sup>1</sup> Marketing year average.

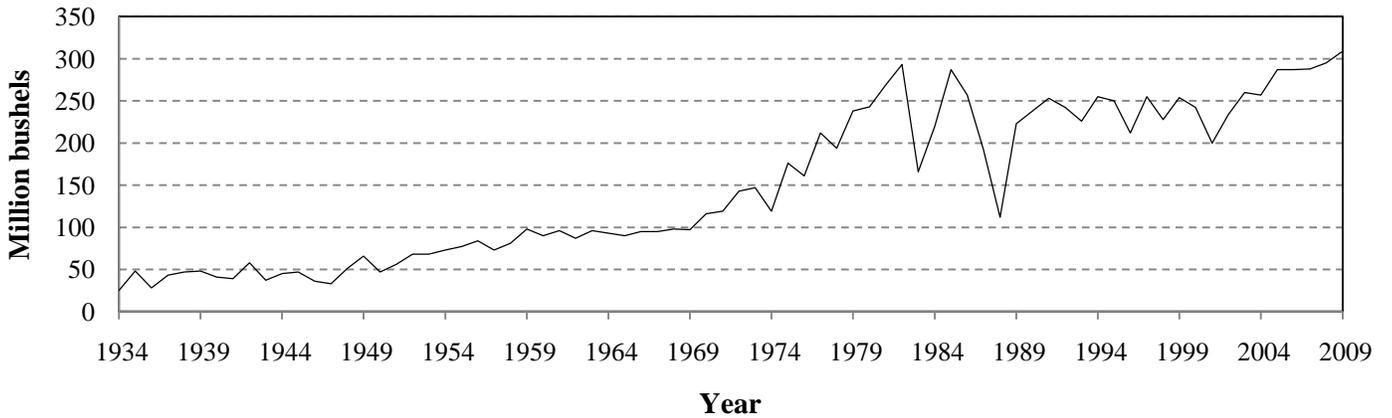
### Corn for grain acres, 1934-2009



### Corn yield, 1934-2009



### Corn production, 1934-2009



**Corn for grain: Stocks by quarter, 2005-2009**

Crop year	December 1		March 1		June 1		September 1	
	On farm	Off farm						
	<i>1,000 bushels</i>							
2005	165,000	71,900	110,000	56,500	65,000	39,000	31,000	15,000
2006	145,000	59,000	88,000	53,400	52,000	32,900	12,500	11,900
2007	140,000	64,500	87,000	53,100	43,000	46,200	14,000	18,900
2008	160,000	62,500	100,000	44,000	60,000	38,100	21,000	17,400
2009	195,000	50,900	100,000	55,200	55,000	37,857		

**Corn: Percentage of acreage planted, 2005-2009**

Year	Month and day						
	April		May			June	
	20	30	10	20	30	10	
2005	17	34	68	87	98	100	
2006	3	31	69	84	93	100	
2007	1	12	48	80	95	100	
2008	1	24	66	87	97	100	
2009	2	4	18	56	89	99	
5-year-average	4.8	21.2	53.7	78.8	94.5	99.7	

**Corn: Percentage of acreage silked, 2005-2009**

Year	Month and day					
	July			August		
	1	10	20	30	10	20
2005	0	7	47	91	97	100
2006	0	6	44	84	95	100
2007	0	14	50	77	94	100
2008	0	1	24	73	95	100
2009	0	1	8	37	74	94
5-year-average	0.0	5.7	34.6	72.3	90.9	98.7

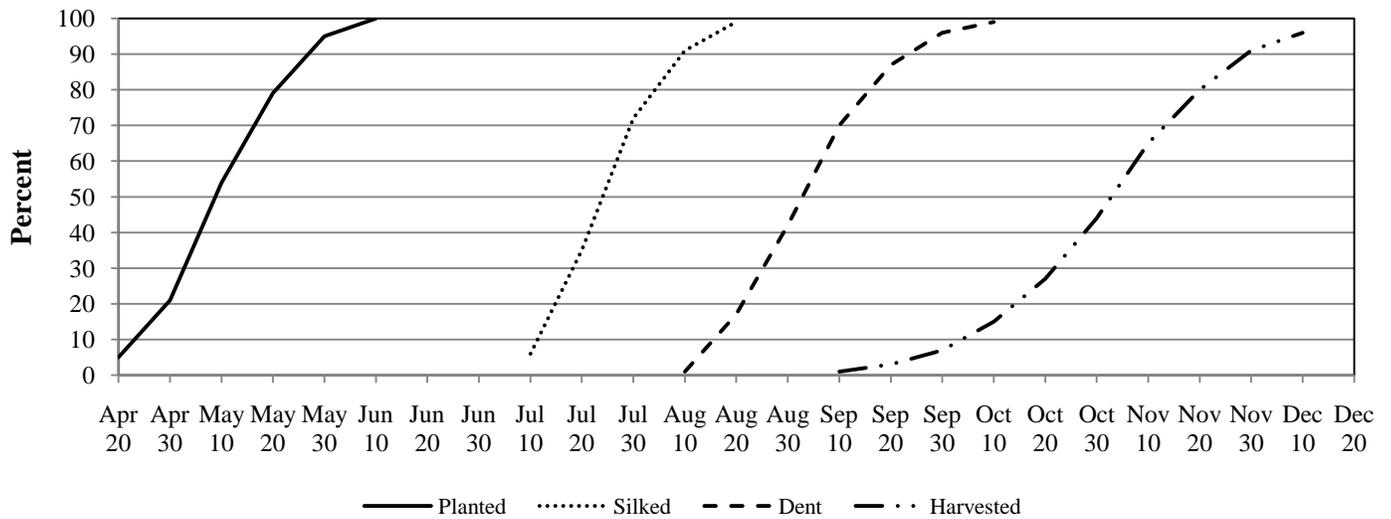
**Corn: Percentage of acreage dent stage, 2005-2009**

Year	Month and day						
	August			September			October
	10	20	30	10	20	30	10
2005	0	20	55	84	97	99	100
2006	1	27	55	84	93	98	100
2007	2	22	45	77	92	100	100
2008	0	13	43	72	87	97	100
2009	0	1	13	32	64	84	93
5-year-average	0.6	16.8	42.2	70.0	86.6	95.7	98.7

**Corn: Percentage of acreage harvested for grain, 2005-2009**

Year	Month and day									
	September			October			November			December
	10	20	30	10	20	30	10	20	30	10
2005	2	7	14	28	48	75	91	96	99	100
2006	0	2	5	10	20	34	59	71	84	94
2007	0	4	12	23	35	57	81	92	99	100
2008	0	0	4	13	26	45	74	86	95	100
2009	0	0	0	3	4	9	21	53	77	88
5-year-average	0.5	2.5	7.1	15.3	26.5	43.9	65.2	79.7	90.8	96.3

## Corn progress Five-year average, 2005-2009



## Dry Edible Beans

Michigan dry bean planting started the week of May 18, 2009 and was completed by the end of June. Planting did slow in mid-June due to excessive rains. There was some replanting into July. Michigan dry bean harvest started the middle of September. White mold was reported in the Thumb region.

Michigan's 2009 total dry bean production was 3.51 million hundredweight (cwt), 13.8 percent of U.S. production. Michigan ranked second in dry bean production for 2009. The value of production was 115.5 million dollars, down 12 percent from 2008.

**Dry edible beans: Acres, yield, production, and value, 2005-2009**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Dol/cwt</i>	<i>1,000 dollars</i>
2005	235	230	1,700	3,910	19.60	76,636
2006	225	215	1,900	4,085	21.10	86,194
2007	200	195	1,600	3,120	31.90	99,528
2008	200	195	1,850	3,607	36.30	130,934
2009	200	195	1,800	3,510	32.90	115,479

<sup>1</sup> Marketing year average.

**Dry edible beans: Acres, yield, and production, by class, 2005-2009**

Class and Year	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>
<b>Black</b>				
2005	65,000	64,000	1,770	1,130
2006	91,600	86,600	1,930	1,670
2007	96,500	94,500	1,630	1,540
2008	91,000	89,000	1,900	1,691
2009	102,000	99,100	1,790	1,770
<b>Cranberry</b>				
2005	10,500	9,500	1,470	140
2006	8,000	7,900	1,460	115
2007	6,900	6,800	1,290	88
2008	7,200	7,000	1,540	108
2009	3,900	3,800	1,450	55
<b>Great Northern</b>				
2005	2,000	1,800	1,660	30
2006	500	500	2,000	10
2007 <sup>1</sup>				
2008 <sup>1</sup>				
2009 <sup>1</sup>				
<b>Navy</b>				
2005	75,500	74,500	1,760	1,310
2006	80,000	77,500	1,960	1,520
2007	61,000	59,500	1,660	990
2008	62,000	60,500	1,920	1,162
2009	52,000	51,100	1,910	976
<b>Pinto</b>				
2005	18,000	17,500	1,600	280
2006	5,000	4,900	1,900	93
2007	4,000	3,900	1,490	58
2008	1,800	1,700	1,880	32
2009	4,000	3,900	1,620	63
<b>Red kidney, dark</b>				
2005	8,000	7,700	1,430	110
2006	4,000	3,600	1,170	42
2007	2,300	2,000	900	18
2008	2,500	2,400	1,210	29
2009	2,000	1,900	1,160	22
<b>Red kidney, light</b>				
2005	17,000	16,800	1,430	240
2006	11,300	10,300	1,700	175
2007	8,600	8,400	1,180	99
2008	9,500	9,300	1,260	117
2009	9,100	9,000	1,540	139
<b>Small, red</b>				
2005	31,000	30,500	1,770	540
2006	20,000	19,500	2,000	390
2007	16,000	15,500	1,630	253
2008	22,400	21,800	1,950	425
2009	21,100	20,700	1,950	404
<b>Other</b>				
2005	8,000	7,700	1,688	130
2006	4,600	4,200	1,670	70
2007	4,700	4,400	1,680	74
2008	3,600	3,300	1,300	43
2009	5,900	5,500	1,470	81

<sup>1</sup> Included in Other class.

## Hay and Haylage

Michigan hay production was estimated at 2.48 million tons, down from 2.63 in 2008. Alfalfa and alfalfa mixtures accounted for 79 percent of all dry hay produced. All hay harvested acres were estimated at 0.99 million, down from 1.02 million in 2008. The average all hay yield was 2.51 tons per acre, down from 2.58 the previous year. In early June, harvest was in full swing but growers reported winter kill had affected their tonnage in comparison to last

year. June and July progressed slowly due to lack of moisture and cool temperatures. Cool and damp conditions in August slowed progress of Michigan's hay crop but September was a better month for making hay. Alfalfa accounted for 700,000 acres of the total harvested with a yield of 2.8 tons per acre. Other hay accounted for 290,000 acres with a yield of 1.8 tons per acre. The value of the hay crop was \$352 million, down 12 percent from 2008.

### Hay, haylage, and greenchop: Acres, yield, production, and value, 2005-2009

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
All dry hay						
2005		1,150	2.63	3,020	90.00	269,340
2006		1,120	2.87	3,212	94.00	300,404
2007		1,050	2.31	2,429	124.00	299,411
2008		1,020	2.58	2,633	153.00	401,948
2009		990	2.51	2,482	142.00	352,454
Alfalfa hay						
2005		900	2.80	2,520	92.00	231,840
2006		810	3.20	2,592	97.00	251,424
2007		770	2.50	1,925	127.00	244,475
2008		770	2.90	2,233	156.00	348,348
2009		700	2.80	1,960	146.00	286,160
Alfalfa seedings						
2005	135					
2006	120					
2007	100					
2008	115					
2009	90					
Other hay						
2005		250	2.00	500	75.00	37,500
2006		310	2.00	620	79.00	48,980
2007		280	1.80	504	109.00	54,936
2008		250	1.60	400	134.00	53,600
2009		290	1.80	522	127.00	66,294
All haylage and greenchop						
2005		320	6.50	2,080		
2006		300	6.64	1,992		
2007		270	6.70	1,810		
2008		285	6.24	1,778		
2009		315	5.08	1,601		
Alfalfa haylage and greenchop						
2005		300	6.70	2,010		
2006		280	6.90	1,932		
2007		250	7.00	1,750		
2008		270	6.40	1,728		
2009		290	5.20	1,508		

<sup>1</sup> Marketing year average.

### Hay: Stocks on farms, 2006-2010

Year	May 1	December 1
	<i>1,000 tons</i>	<i>1,000 tons</i>
2006	395	2,385
2007	350	1,700
2008	320	1,998
2009	450	1,451
2010	330	( <sup>1</sup> )

<sup>1</sup> Published in January 2011.

## Maple Syrup

Michigan maple syrup production was estimated at 82,000 gallons for the 2010 season, 29 percent below 2009 production. Less than optimal weather conditions decreased yield, thereby, decreasing production. There was not enough moisture or enough days and nights of freezing and thawing. The length of the season was 20 days, compared to 25 days in 2009. Michigan was ranked

sixth in maple syrup production in 2010 and produced 4 percent of the total U.S. production. Total taps were 490,000, and the syrup yield was 0.167 gallons per tap. The average price per gallon sold for 2009 production was \$45.00, and the value of production was \$5.175 million, up from \$4.305 million in 2008.

### Maple syrup: Taps, yield, production, price, and value, 2006-2010

Year	Taps	Yield per tap	Production	Price per gallon	Value of production
	<i>1,000</i>	<i>Gallons</i>	<i>1,000 gallons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2006	375	0.208	78	37.00	2,886
2007	390	0.167	65	41.60	2,704
2008	405	0.259	105	41.00	4,305
2009	450	0.256	115	45.00	5,175
2010	490	0.167	82	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Published in June 2011.

## Mint

### Mint: Acres, yield, production, and value, 2005-2009

Year	Harvested	Yield	Production	Price per pound <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Peppermint					
2005	1.0	35	35	12.00	420
2006	0.7	50	35	13.50	473
2007	0.7	40	28	14.40	403
2008	0.8	45	36	28.00	1,008
2009	0.6	60	36	18.00	648
Spearmint					
2005	1.6	35	56	9.50	532
2006	1.6	60	96	10.00	960
2007	1.5	60	90	12.00	1,080
2008	1.5	60	90	15.00	1,350
2009	1.6	65	104	13.00	1,352

<sup>1</sup> Marketing year average.

## Oats

There was a decrease in oat acreage for the State in 2009. Growers planted 70,000 acres of oats in 2009, compared with 75,000 the previous year. Harvested acres, at 55,000, were down 5,000 from last year. Harvested acres were at a record low this year tying with 2007 and 2001. The 2009 oat production was 3.5 million bushels, down 12 percent from the previous year. Yield, at 63 bushels per acre, was down 3 bushels from 2008.

Oat planting was nearly complete by the middle of May. The crop progressed well, but was slightly damaged from the abundance of rain we experienced at the end of May. Disease and insect

pressure remained low through the summer. The crop was turning color quickly with harvest beginning in select areas towards the end of July. Oats in central Michigan were slow to turn and were not turning evenly in mid July. Harvest was in full swing at the middle of August and was essentially completed by early September. For 2009, Sanilac County was ranked first in oat production, while Montcalm, Presque Isle, Huron, and Isabella rounded out the top five counties.

### Oats: Acres, yield, production, and value, 2005-2009

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	90	75	61	4,575	1.89	8,647
2006	80	65	62	4,030	1.93	7,778
2007	70	55	56	3,080	2.91	8,963
2008	75	60	66	3,960	3.40	13,464
2009	70	55	63	3,465	2.25	7,796

<sup>1</sup> Marketing year average.

## Potatoes

Michigan's 2009 potato production was 15.66 million hundredweight, up 5 percent from 14.88 million in 2008. Planted acres were 45,000 and harvested acres were 43,500. The average yield was a record high 360 cwt. per acre. In 2009 Michigan again ranked eighth among states in potato production. The value of 2009 production was 164.4 million dollars, up 9 percent from 2008.

Potato planting began the middle of April and was completed in a timely manner due to good planting conditions. Emergence was also good. There has been above normal rain this season with plants in good to excellent condition. By the first part of July, early planted

fresh potatoes had appeared at farmers markets. Some leafhopper pressure was reported in various regions of the State. Potatoes grew well through the summer with cool temperatures and timely rains. Early harvest for farm markets began in July. Late season rains caused some storage problems. Some late blight was reported across the State and farmers were able to take timely corrective action when needed. As of November 1, 95 percent of the potatoes were harvested.

**Fall potatoes: Acres, yield, production, and value, 2005-2009**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	43.0	42.8	325	13,910	7.95	110,585
2006	43.5	43.0	330	14,190	8.35	118,487
2007	42.5	42.0	350	14,700	8.45	124,215
2008	43.0	42.5	350	14,875	10.10	150,238
2009	45.0	43.5	360	15,660	10.50	164,430

<sup>1</sup> Marketing year average.

**Fall potatoes: Stocks by type as percent of total stocks, December 1, 2005-2009**

Type	2005	2006	2007	2008	2009
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
White	87	87	86	83	89
Russet	12	12	12	15	10
Red	1	1	1	1	1
Yellow <sup>1</sup>	0	0	1	1	0

<sup>1</sup> Estimates began in 2007.

**Fall potatoes: Production and disposition, 2005-2009**

Crop year	Production	Total used for seed	Farm Disposition		Sold
			Seed, feed, and home use	Shrinkage and loss	
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2005	13,910	1,044	182	1,728	12,000
2006	14,190	961	180	1,800	12,210
2007	14,700	1,046	185	1,815	12,700
2008	14,875	1,089	210	1,265	13,400
2009	15,660	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Published in September 2010

**Fall potatoes: Stocks, 2005-2009**

Crop year	December 1	January 1	February 1	March 1	April 1	May 1
	<i>1,000 cwt</i>					
2005	7,900	6,200	4,500	3,100	1,700	500
2006	8,100	6,300	4,600	3,300	1,800	700
2007	8,800	7,000	5,300	3,700	2,100	800
2008	8,300	6,600	4,800	3,300	1,800	700
2009	8,700	7,000	5,200	3,200	1,200	( <sup>1</sup> )

<sup>1</sup> Withheld to avoid disclosure of individual operations.

## Soybeans

Michigan soybean production totaled 79.6 million bushels, up 14 percent from 2008. The yield was 40 bushels per acre in 2009, up 3 bushels per acre from the previous year. Planted acres increased by 100,000 acres over last year's total to 2.0 million acres in 2009. Harvested acres increased accordingly to 1.99 million. Soybean prices fell by 4 percent from 2008. Michigan's soybean crop was

well behind schedule for much of the growing season due to a generally wet and cool year. Wet spring soils delayed planting and emergence, but development was close to normal by June. From this point, cool temperatures slowed crop maturity. Harvest was held up by wet weather, but was mostly complete by the middle of November.

### Soybeans: Acres, yield, production, and value, 2005-2009

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	2,000	1,990	38.5	76,615	5.73	439,004
2006	2,000	1,990	46.0	91,540	6.27	573,956
2007	1,800	1,790	40.0	71,600	9.69	693,804
2008	1,900	1,890	37.0	69,930	9.82	686,713
2009	2,000	1,990	40.0	79,600	9.40	748,240

<sup>1</sup> Marketing year average.

### Soybeans: Stocks by quarter, 2005-2009

Crop year	December 1		March 1		June 1		September 1	
	On farm	Off farm						
	<i>1,000 bushels</i>							
2005	33,000	22,600	22,000	14,600	11,500	6,850	5,000	3,300
2006	38,000	22,700	26,000	18,500	12,000	12,150	3,100	7,800
2007	26,000	29,000	17,000	23,900	3,500	12,200	2,500	4,580
2008	28,000	24,200	15,500	14,100	5,100	8,400	1,700	2,640
2009	27,000	25,300	13,000	13,600	3,800	7,134		

### Soybeans: Percentage of acreage planted, 2005-2009

Year	Month and day							
	May			June			July	
	10	20	30	10	20	30	10	
2005	34	69	90	98	100	100	100	
2006	37	56	73	90	99	100	100	
2007	14	36	76	96	100	100	100	
2008	29	59	87	96	100	100	100	
2009	5	27	59	86	97	99	100	
5-year-average	23.9	49.3	77.0	93.3	99.1	99.7	100.0	

### Soybeans: Percentage of acreage setting pods, 2005-2009

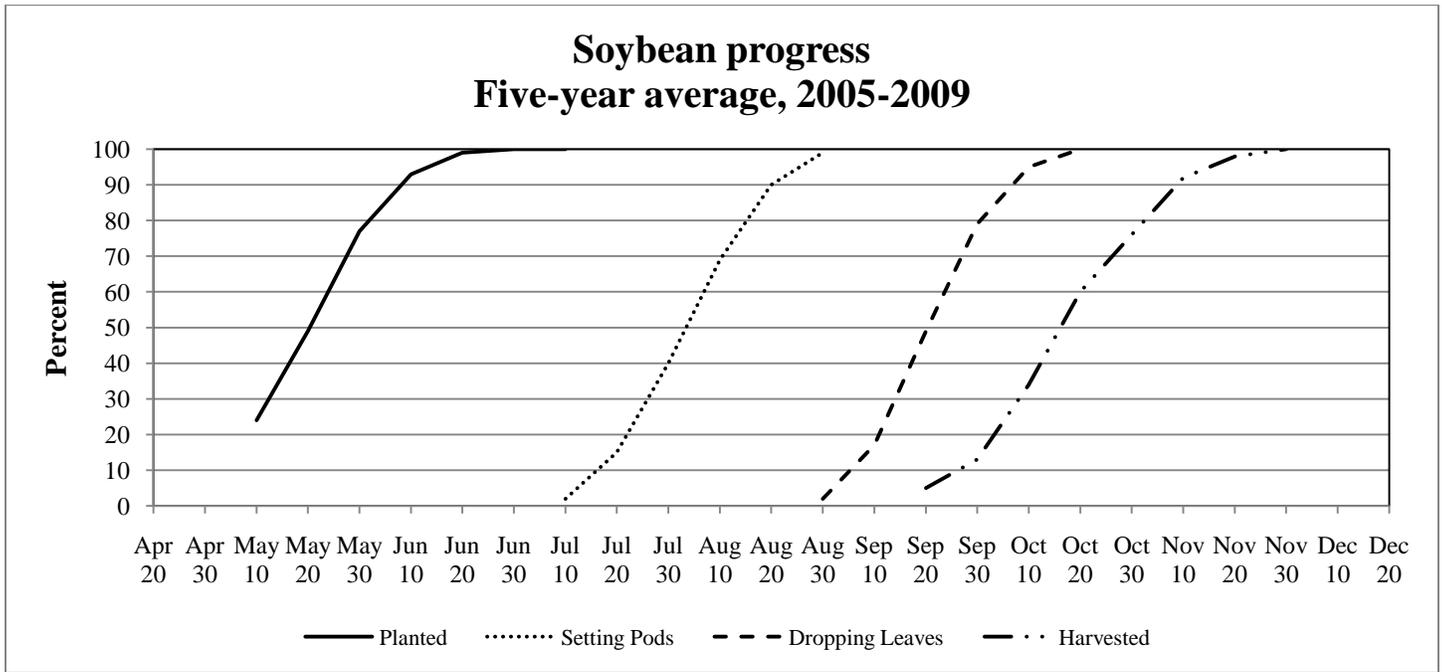
Year	Month and day					
	July			August		
	10	20	30	10	20	30
2005	3	22	55	83	97	100
2006	3	22	42	74	93	99
2007	4	22	48	75	97	100
2008	0	6	42	77	95	100
2009	0	3	13	36	70	95
5-year-average	1.9	15.0	39.9	69.1	90.1	98.7

**Soybeans: Percentage of acreage shedding leaves, 2005-2009**

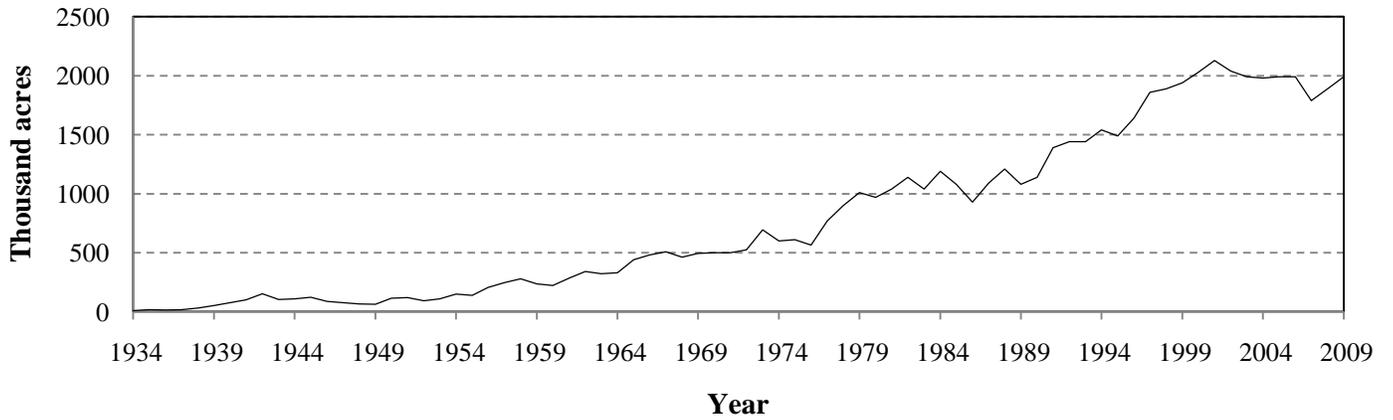
Year	Month and day							
	August		September			October		
	20	30	10	20	30	10	20	
2005	0	3	37	82	95	100	100	
2006	0	1	15	44	75	90	99	
2007	0	1	10	42	76	98	100	
2008	0	2	18	54	84	96	100	
2009	0	0	2	23	64	91	99	
5-year-average	0.0	1.6	16.5	48.9	78.7	95.0	99.6	

**Soybeans: Percentage of acreage harvested, 2005-2009**

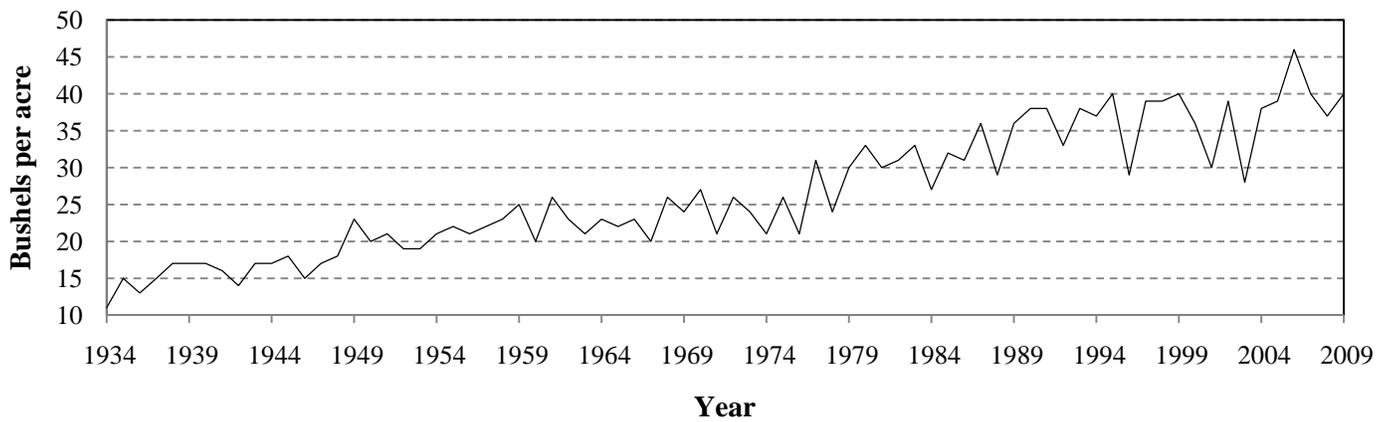
Year	Month and day								
	September			October			November		
	10	20	30	10	20	30	10	20	30
2005	0	11	33	69	87	93	99	100	100
2006	0	4	7	23	42	60	84	93	98
2007	0	1	10	33	60	81	96	100	100
2008	0	2	12	36	76	91	97	100	100
2009	0	0	2	6	35	57	83	96	100
5-year-average	0.0	4.5	12.7	33.5	59.9	76.4	92.0	97.6	99.5



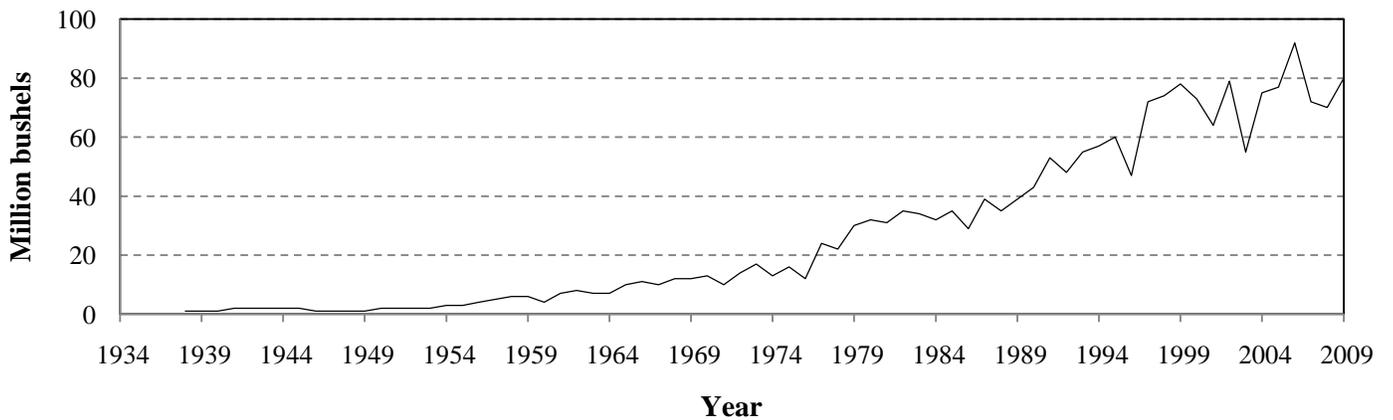
### Soybean harvested acres, 1934-2009



### Soybean yield, 1934-2009



### Soybean production, 1934-2009



## Sugarbeets

Acres planted to sugarbeets were estimated at 138,000 in 2009, up 1,000 acres from the previous year. Harvested acreage was estimated at 136,000, the same as last year. The yield was 24.4 tons per acre, down 4.3 tons from the previous year's record yield of 28.7. Sugarbeet production in 2009 totaled 3.32 million tons, down 15 percent from 2008. Planting was complete by mid-May.

Sugarbeet crop development was good with little disease and weed pressure. Precipitation levels were ideal for the sugarbeet crop during the critical growing periods, leading to the record yield. Harvest started out slow due to rains, but proceeded to near normal by the end of the season. Piling began towards the end of October and harvest was finished by mid November.

**Sugarbeets: Acres, yield, production, and value, 2005-2009**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	154	152	21.3	3,238	34.40	111,387
2006	155	154	23.2	3,573	38.00	135,774
2007	150	149	23.4	3,487	36.00	125,532
2008	137	136	28.7	3,903	44.00	171,732
2009	138	136	24.4	3,318	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> Marketing year average.

<sup>2</sup> Published in February 2011.

## Wheat

Michigan's winter wheat crop was 38.64 million bushels in 2009. Planted acres decreased to 620,000 acres from 730,000 the previous year. Harvested acreage was down 21 percent from last year to 560,000 acres. The average yield, 69 bushels per acre, was the same as last year. The value of the crop decreased 40 percent to \$164 million. Huron, Sanilac, Lenawee, Tuscola, and Saginaw were the top five counties in wheat production for the second year in a row.

Winter wheat planting began the third week of September, 2008. Initially, plantings and emergence were behind the five-year average, but progressed ahead of the five-year average beginning in mid-October. Winter wheat fields received sufficient snow cover

and weathered well throughout Michigan, despite several bouts of thawing and refreezing.

A cool, wet spring and summer impeded the progress of the crop. Though there were reports of Septoria leaf blotch, Fusarium leaf spot, cephalosporium stripe, and powdery mildew throughout the growing season, the primary problem that wheat producers endured was the sprouting in the head of white wheat. Harvest began in the middle of July. Harvest of this year's crop proved to be difficult due the moisture received during peak harvest periods. Many acres of soft white winter wheat began sprouting and was, therefore, abandoned or destroyed. Harvest began in mid-July and was completed by the middle of August.

**Wheat: Acres, yield, production, and value, 2005-2009**

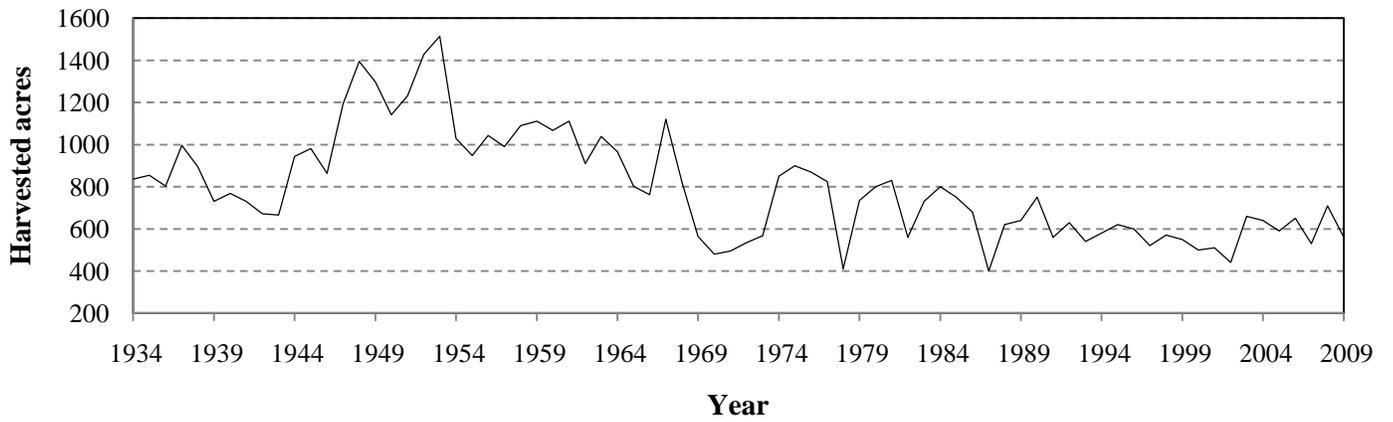
Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	600	590	66	38,940	3.13	121,882
2006	660	650	73	47,450	3.41	161,805
2007	550	530	65	34,450	5.01	172,595
2008	730	710	69	48,990	5.63	275,814
2009	620	560	69	38,640	4.25	164,220

<sup>1</sup> Marketing year average.

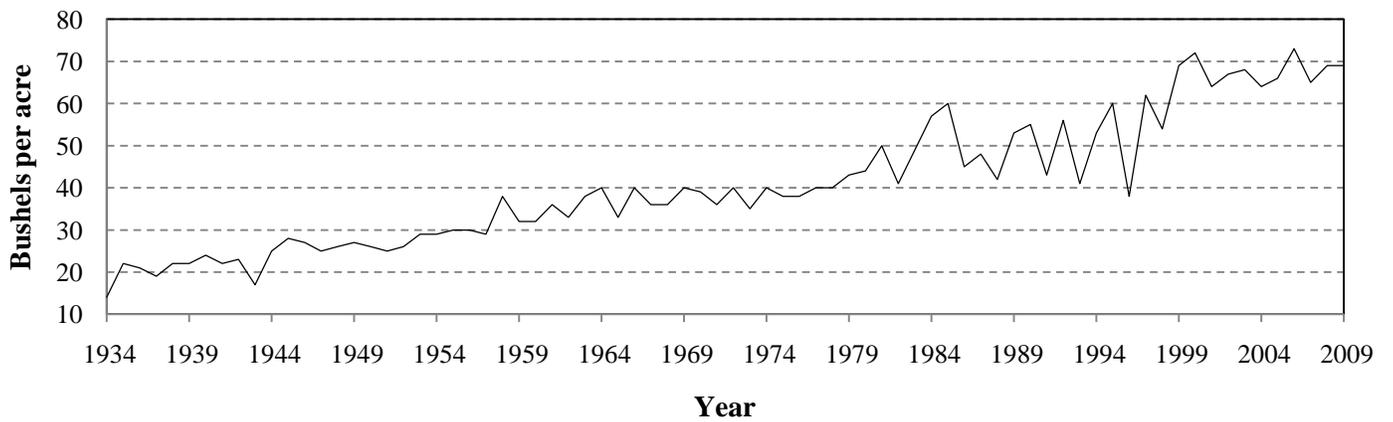
**Wheat: Stocks by quarter, 2005-2009**

Crop year	September 1		December 1		March 1		June 1	
	On farm	Off farm						
	<i>1,000 bushels</i>							
2005	6,900	28,450	3,600	23,700	1,300	17,800	600	10,550
2006	7,500	33,200	3,800	25,975	1,400	18,400	300	12,250
2007	2,600	30,400	2,400	21,600	300	14,230	70	7,670
2008	6,200	30,350	2,600	26,800	1,900	21,600	850	16,700
2009	5,800	34,800	3,200	28,400	1,500	24,440	800	18,500

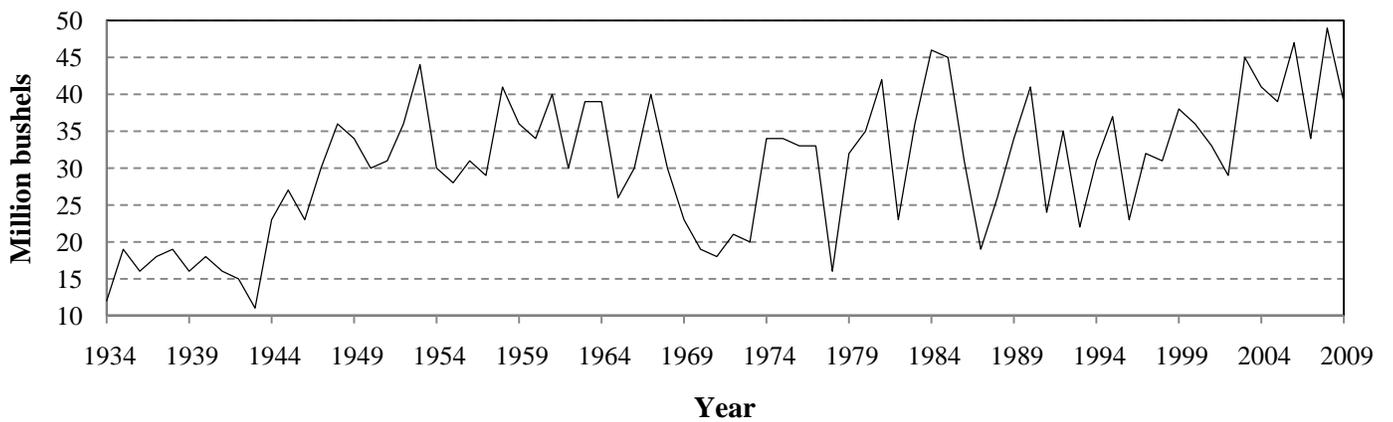
### Wheat harvested acres, 1934-2009



### Wheat yield, 1934-2009



### Wheat production, 1934-2009



## Fruit

Michigan apple production was 1,150 million pounds, up 560 million pounds from 2008. The farm level value of the utilized crop was \$131.3 million. Michigan ranked third in U.S. apple production behind Washington and New York, which produced 5.40 billion pounds and 1.38 billion pounds, respectively. Tart cherry production was 266 million pounds, up 61 percent from the 165 million pounds produced in 2008. The average yield was 10,200 pounds per acre. The farm level value was \$37.9 million. Sweet cherry production was 28,700 tons, up from 26,500 tons produced in 2008. The average yield was 4.10 tons per acre. The farm level value was \$13.7 million. Cultivated blueberry production in Michigan was 99 million pounds, approximately 27 percent of the U.S. total. Growers harvested 18,500 acres in 2009. The farm level value was \$101.9 million. Strawberry production in Michigan was 4.6 million pounds

on 800 harvested acres. The farm level value was \$6.6 million. Michigan peach production was 34.4 million pounds, up from 28 million pounds in 2008. Total bearing acres were 4,300, and the farm level value was \$12.1 million. Pear production in Michigan was 4,200 tons on 800 acres. The farm level value was \$1.4 million. Michigan plum production was 2,900 tons on 600 acres. The farm level value was \$1.4 million. Michigan grape production was 96,500 tons. The farm level value was \$27.6 million. There were 45,400 tons of Concord and 27,500 tons of Niagara grapes processed. There were 2,330 tons of vinifera, 1,930 tons of hybrids, and 40 tons of other varieties processed for wine. Prices for vinifera varieties averaged \$1,365 per ton, hybrids \$575 per ton, and other varieties \$350 per ton.

### Fruit: Record highs and lows

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Apples	Million pounds	1,220	1995	53	1945	1889
Blueberries	Million pounds	110	2008	12	1977	1992
Cherries, sweet	Tons	37,500	1978	500	1945	1925
Cherries, tart	Million pounds	380	1964	15	2002	1925
Grapes	Tons	102,700	2005	4,200	1889	1889
Peaches	Million pounds	255	1945,1946	7.4	1918	1889
Pears	Tons	48,600	1964	1,400	2002	1889
Plums	Tons	25,000	1971	250	2002	1919
Strawberries	1,000 cwt	451	1940	41	2004	1928

### Fruit: Acres harvested and value of production, 2005-2009

Item	Unit	2005	2006	2007	2008	2009
Acres harvested	1,000 acres	113	112	109	109	110
Value of production	1,000 dollars	278,759	351,656	416,265	365,311	333,867

**Fruit: Acres, production, and value, 2005-2009**

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>
<b>Apples</b>						
2005	40,000	19,000	760	755	0.126	95,038
2006	38,500	22,900	880	855	0.141	120,386
2007	36,000	21,400	770	770	0.169	130,325
2008	37,000	15,900	590	590	0.200	118,063
2009	38,000	30,300	1,150	1,050	0.125	131,275
<b>Blueberries <sup>1</sup></b>						
2005	16,800	3,930	66	66	1.270	83,500
2006	18,100	4,970	90	90	1.660	149,655
2007	18,500	5,030	93	93	1.780	165,456
2008	18,600	5,910	110	110	1.130	124,000
2009	18,500	5,350	99	99	1.030	101,850
<b>Cherries, tart</b>						
2005	26,700	7,790	208	208	0.229	47,555
2006	26,400	7,200	190	180	0.192	34,697
2007	26,100	7,510	196	193	0.264	50,905
2008	25,900	6,370	165	165	0.382	63,030
2009	26,000	10,200	266	242	0.157	37,981
<b>Peaches</b>						
2005	5,000	5,600	28.0	28.0	0.285	7,982
2006	4,500	8,400	37.8	37.4	0.350	13,066
2007	4,300	9,540	41.0	38.2	0.426	16,298
2008	4,300	6,520	28.0	27.4	0.330	9,052
2009	4,300	8,000	34.4	33.4	0.362	12,075
	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars per ton</i>	<i>1,000 dollars</i>
<b>Cherries, sweet</b>						
2005	7,900	3.42	27,000	27,000	620	16,732
2006	7,700	2.60	20,000	20,000	775	15,492
2007	7,300	3.74	27,300	27,300	649	17,709
2008	7,200	3.68	26,500	26,300	614	16,144
2009	7,000	4.10	28,700	28,600	478	13,666
<b>Grapes</b>						
2005	14,200	7.23	102,700	102,700	210	21,518
2006	14,200	2.29	32,500	27,500	336	9,242
2007	14,100	7.10	100,100	100,100	280	28,044
2008	14,200	5.19	73,700	73,700	369	27,197
2009	14,200	6.80	96,500	78,400	352	27,586
<b>Pears</b>						
2005	800	2.50	2,000	1,970	423	834
2006	800	4.50	3,600	3,500	320	1,120
2007	800	5.00	4,000	3,600	450	1,621
2008	800	3.56	2,850	2,800	414	1,158
2009	800	5.25	4,200	4,200	343	1,441
<b>Plums</b>						
2005	750	2.67	2,000	2,000	361	722
2006	750	4.80	3,600	3,400	504	1,713
2007	750	4.13	3,100	2,000	440	879
2008	650	3.54	2,300	2,300	357	821
2009	600	4.83	2,900	2,000	689	1,378

<sup>1</sup> Harvested acres.

**Apples: End-of-month stocks in cold and controlled atmosphere storage, 2005-2009**

Month	2005-06	2006-07	2007-08	2008-09	2009-10
	<i>1,000 pounds</i>				
October	351,515	383,675	322,867	312,665	462,955
November	322,792	362,253	273,629	310,356	502,038
December	261,930	323,942	217,797	269,035	443,943
January	216,048	260,604	171,502	206,779	362,643
February	158,504	211,682	122,105	149,069	280,684
March	105,340	143,579	83,984	109,176	194,746
April	68,511	87,067	38,313	61,021	125,836

**Apples: Utilization and price, 2005-2009**

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>
2005	265	0.210	490	0.080	755	0.126
2006	295	0.245	560	0.086	855	0.141
2007	265	0.290	505	0.106	770	0.169
2008	165	0.355	425	0.140	590	0.200
2009	400	0.215	650	0.070	1,050	0.125

**Apples, processing: Utilization and price, 2005-2009**

Year	Canned		Frozen and fresh slices		Juice and cider	
	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>
2005	195	0.088	147	0.095	140	0.055
2006	215	0.085	168	0.113	175	0.060
2007	165	0.110	180	0.124	155	0.080
2008	180	0.152	132	0.155	105	0.102
2009	240	0.070	215	0.082	280	0.056

**Blueberries: Utilization and price, 2005-2009**

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>
2005	66	66	25	1.700	41	1.000
2006	90	90	29	2.150	61	1.430
2007	93	93	30	2.050	63	1.650
2008	110	110	40	1.700	70	0.800
2009	99	99	49	1.650	50	0.420

**Cherries, sweet: Production and utilization, 2005-2009**

Year	Total production	Utilized production							
		Fresh		Canned		Brined		Other <sup>1</sup>	
		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>
2005	27,000	600	1,770	4,350	630	17,800	550	4,250	739
2006	20,000	1,000	2,750	670	800	12,200	550	6,130	897
2007	27,300	800	2,060	1,060	730	17,400	440	8,040	949
2008	26,500	1,200	2,620	1,830	460	14,100	450	9,170	634
2009	28,700	800	2,390	1,250	590	17,750	410	8,800	425

<sup>1</sup> Frozen, juice, etc.

**Cherries, tart: Utilization, 2005-2009**

Year	Production		Fresh market	Processed					
	Total	Utilized		Canned		Frozen		Other <sup>1</sup>	
				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>
2005	208	208	0.5	51.0	0.240	146	0.230	10.5	0.141
2006	190	180	0.5	39.0	0.160	114	0.210	26.8	0.153
2007	196	193	0.5	39.0	0.270	143	0.265	10.5	0.191
2008	165	165	0.5	39.0	0.435	117	0.370	8.5	0.262
2009	266	242	0.5	43.0	0.120	175	0.170	23.5	0.110

<sup>1</sup> Juice, wine, and dried.

**Cherries, tart: Production by region, 2005-2009**

Region	2005	2006	2007	2008	2009
	<i>Million pounds</i>				
Northwest	129.0	115.0	134.0	96.5	186.5
West Central	64.0	49.0	53.0	50.0	63.0
Southwest and other	15.0	26.0	9.0	18.5	16.5
Michigan	208.0	190.0	196.0	165.0	266.0

**Cherries, tart, frozen: Stocks in cold storage, 2006-2009**

Month	East North Central region <sup>1</sup>				48 States total <sup>2</sup>			
	2006-07	2007-08	2008-09	2009-10	2006-07	2007-08	2008-09	2009-10
	<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	122,154	135,923	99,621	105,143	137,736	168,436	118,790	128,571
August	115,591	125,752	114,186	156,271	143,082	158,643	137,994	193,312
September	107,942	121,898	100,749	148,937	133,717	153,812	120,386	185,263
October	101,127	112,606	93,116	143,809	123,486	142,039	113,867	179,608
November	93,505	104,719	88,936	133,775	112,606	132,845	108,046	167,716
December	89,022	99,014	83,340	125,480	110,361	126,646	101,892	156,136
January	80,445	91,603	77,605	116,688	97,425	117,609	96,533	145,923
February	73,593	86,533	71,789	109,432	88,896	109,423	90,052	136,313
March	64,283	82,236	64,644	102,596	76,170	100,479	79,608	124,138
April	55,544	72,708	57,349	96,331	66,958	87,495	69,139	113,941
May	45,509	63,661	50,490	88,016	58,337	75,690	59,714	103,008
June	36,519	53,119	46,155	85,253	48,989	63,055	53,206	96,540

<sup>1</sup> Illinois, Indiana, Michigan, Ohio, and Wisconsin.

<sup>2</sup> Excluding Alaska and Hawaii.

**Grapes: Processed utilization and value, 2005-2009**

Year	Concord	Niagara	Other	Total		
				Utilized production	Price per ton	Value
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	66,500	31,000	4,500	102,000	205	20,958
2006	15,350	8,100	3,950	27,400	331	9,082
2007	61,000	33,500	4,500	99,000	255	25,294
2008	45,800	22,000	4,700	72,500	330	23,957
2009	45,400	27,500	4,200	77,100	317	24,466

**Grapes: Processed for wine by category, 2005-2009**

Year	Hybrids		Vinifera		Other		Total		
	Quantity	Price per ton	Value of production						
	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	1,660	510	2,640	1,430	300	230	4,600	1,020	4,692
2006	1,490	620	2,460	1,340	350	225	4,300	1,000	4,300
2007	1,800	560	2,700	1,435	900	220	5,400	940	5,076
2008	2,100	610	2,700	1,380	500	240	5,300	970	5,141
2009	1,930	575	2,330	1,365	40	350	4,300	1,000	4,300

**Plums: Utilization and value, 2005-2009**

Year	Fresh Market			Processing		
	Production	Price per ton	Value of production	Production	Price per ton	Value of production
	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	450	760	342	1,550	245	380
2006	1,800	730	1,314	1,600	249	399
2007	900	765	689	1,100	173	190
2008	700	775	543	1,600	174	278
2009	1,400	890	1,246	600	220	132

**Strawberries: Acres, production and value, 2005-2009**

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>
2005	1,100	1,000	52	52	93.80	4,878
2006	1,000	850	65	55	114.00	6,285
2007	1,000	850	51	43	117.00	5,028
2008	950	800	61	49	119.00	5,846
2009	950	800	58	46	144.00	6,615

**Strawberries: Utilization and value, 2005-2009**

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>
2005	47	99	4,653	5	45.00	225
2006	52	118	6,136	3	49.50	149
2007	41	120	4,920	2	54.00	108
2008	47	122	5,734	2	56.00	112
2009	43	150	6,450	3	55.00	165

**Refrigerated warehouses: Number and capacity, October 1, 2009 <sup>1</sup>**

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	146		27,646	6,360
General-public	23	57,383	6,687	
General-private and semi-private	26	15,264	5,028	

<sup>1</sup> Conducted biennially.

## Vegetables

Michigan growers produced 841,280 tons of fresh and processed vegetables in 2009. Harvested acreage was 106,900. Value of production totaled \$256 million. Nationally, Michigan ranked ninth and sixth, respectively for fresh market and processing vegetable value of production.

Michigan farmers produced 9.10 million hundredweight (cwt) of fresh market vegetables, an increase of 8 percent from 2008. Processing vegetable production totaled 386,280 tons. Wet weather in late April and early May delayed vegetable planting by a week. Although warmer temperatures and drier conditions in mid-May allowed growers to get caught up with field preparations, cool, cloudy days through the first week of June kept plant growth behind schedule. Cool and dry conditions throughout July kept crop development for several warm season vegetables at one to two weeks behind schedule. Heavy rains which fell across the state the weekend of August 8-9 provided temporary relief for many producers, but also brought some damage to vegetable crops on muck soils. Warm, dry weather in September allowed producers to

accelerate the pace of harvest; however, a hard frost on October 1 effectively ended harvest of warm season vegetables.

Michigan ranked third, behind California and Washington, for dual purpose asparagus production with 235,000 cwt produced, down 9 percent from last year's 258,000 cwt. Harvest began in mid-May with some frost damage reported. Production, due to cooler temperatures, was slow. Asparagus harvest was finished in Southwest Michigan by mid-June, while in the west central region, harvest continued until late June due to the slow growth of the crop. Growers in the southwest reported above average yields, while growers in the west central region reported production was down 10-20%. Despite the lower yields, growers reported the crop quality was good. Light spotty frosts occurred early in the spring, but frost damage was below normal statewide. Common asparagus beetle was not a severe problem during the cooler conditions, but cutworm problems were reported to be worse than normal due to the slow growth rate.

**Vegetables: Record highs and lows**

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Asparagus						
Harvested	1,000 acres	23.0	1989	1.0	1928	1928
Yield	Cwt	31	1947	9	1981	
Production	1,000 cwt	317	2003	17	1928	
Beans, snap (processing)						
Harvested	1,000 acres	27.0	1999	0.8	1921	1918
Yield	Tons	3.95	2009	0.60	1947	
Production	Tons	100,970	1999	600	1921	
Carrots (fresh market)						
Harvested	1,000 acres	7.7	1994	0.5	1929	1929
Yield	Cwt	398	1995	155	1957	
Production	1,000 cwt	2,610	1995	132	1936	
Celery						
Harvested	1,000 acres	7.2	1941	1.6	2005	1928
Yield	Cwt	575	2005	174	1935	
Production	1,000 cwt	1,915	1941	576	1966	
Corn, sweet (fresh market)						
Harvested	1,000 acres	15.2	1961	8.0	2005	1949
Yield	Cwt	110	2006,2009	42	1949	
Production	1,000 cwt	1,020	1994	525	1949	
Cucumbers (processing)						
Harvested	1,000 acres	46.3	1949	9.3	1932	1918
Yield	Tons	6.7	1987	0.6	1924	
Production	Tons	189,100	2008	8,900	1932	
Onions						
Harvested	1,000 acres	12.7	1935	2.9	2005	1928
Yield	Cwt	350	1960,2009	120	1935	
Production	1,000 cwt	2,833	1948	754	2005	
Tomatoes (fresh market)						
Harvested	1,000 acres	9.4	1943	1.8	2001	1928
Yield	Cwt	300	2009	60	1959	
Production	1,000 cwt	797	1943	204	1988	
Tomatoes (processing)						
Harvested	1,000 acres	9.7	1982	1.0	1921	1918
Yield	Tons	39.0	2009	2.7	1943	
Production	Tons	205,000	1982	5,000	1921	

**Vegetables: Acres harvested and value of production, 2005-2009**

Item	Unit	2005	2006 <sup>1</sup>	2007	2008	2009
Acres harvested	1,000 acres	107	113	115	105	107
Value of production	1,000 dollars	186,062	221,308	224,677	239,230	256,538

<sup>1</sup> Processing tomatoes excluded to avoid disclosure of individual operations.

**Principal vegetables, fresh market: Acres, production, and value, 2005-2009**

Year	Planted	Harvested	Production	Value
	<i>Acres</i>	<i>Acres</i>	<i>1,000 cwt</i>	<i>1,000 dollars</i>
2005	59,200	55,200	8,884	146,330
2006	59,000	55,400	8,793	163,539
2007	59,300	56,000	8,347	156,949
2008	56,700	53,800	8,396	169,990
2009	57,500	54,500	9,100	171,540

**Principal vegetables, processing: Acres, production, and value, 2005-2009**

Year	Planted	Harvested	Production	Value
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 dollars</i>
2005 /1	53,300	51,400	275,540	39,732
2006	59,000	57,200	413,970	57,769
2007	60,500	59,100	419,100	67,728
2008	52,700	51,600	413,350	69,240
2009 /2	53,500	52,400	386,280	77,936

<sup>1</sup> Processing tomatoes excluded to avoid disclosure of individual operations.

<sup>2</sup> Processing carrots excluded to avoid disclosure of individual operations.

**Vegetables, processing: Acres, production, and value, 2005-2009**

Item and Year	Planted	Harvested	Yield	Production	Price per ton	Value
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Carrots</b>						
2005	2,300	2,200	26.00	57,200	62.00	3,546
2006	2,700	2,600	23.00	59,800	74.00	4,425
2007	3,100	3,000	20.00	60,000	76.00	4,560
2008	2,800	2,700	25.00	67,500	88.00	5,940
2009 <sup>1</sup>						
<b>Cucumbers</b>						
2005	34,000	33,000	4.80	158,400	168.00	26,611
2006	34,000	33,200	5.20	172,640	194.00	33,492
2007	35,500	35,000	5.30	185,500	230.00	42,665
2008	31,000	30,500	6.20	189,100	220.00	41,602
2009	33,000	32,500	5.80	188,500	260.00	49,010
<b>Snap beans</b>						
2005	17,000	16,200	3.70	59,940	160.00	9,575
2006	19,000	18,100	3.65	66,030	148.00	9,803
2007	18,500	17,800	3.45	61,400	169.00	10,405
2008	15,500	15,000	3.65	54,750	210.00	11,498
2009	17,000	16,500	3.95	65,180	220.00	14,340
<b>Tomatoes</b>						
2005 <sup>1</sup>						
2006	3,300	3,300	35.00	115,500	87.00	10,049
2007	3,400	3,300	34.00	112,200	90.00	10,098
2008	3,400	3,400	30.00	102,000	100.00	10,200
2009	3,500	3,400	39.00	132,600	110.00	14,586

<sup>1</sup> Estimates not published to avoid disclosure of individual operations.

**Vegetables, fresh market: Acres, production, and value, 2005-2009**

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value <sup>1</sup>
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Beans, snap</b>						
2005	4,300	4,100	55	226	60.00	13,560
2006	3,900	3,500	55	193	40.00	7,720
2007	3,400	3,100	40	124	65.00	8,060
2008	3,200	2,800	40	112	40.00	4,480
2009	3,200	3,100	50	155	40.00	6,200
<b>Cabbage</b>						
2005	1,800	1,700	360	612	8.50	5,202
2006	1,900	1,800	340	612	12.10	7,405
2007	2,500	2,400	320	768	15.00	11,520
2008	2,500	2,400	280	672	18.00	12,096
2009	2,700	2,600	260	676	15.00	10,140
<b>Carrots</b>						
2005	3,100	3,000	360	1,080	14.00	15,120
2006	2,800	2,400	320	768	18.00	13,824
2007	2,300	2,200	300	660	15.80	10,428
2008	2,400	2,300	290	667	19.20	12,806
2009	2,400	2,200	270	594	21.30	12,652
<b>Corn, sweet</b>						
2005	9,000	8,000	100	800	20.00	16,000
2006	9,200	8,500	110	935	18.00	16,830
2007	9,700	8,700	85	740	19.80	14,652
2008	9,000	8,500	85	723	23.50	16,991
2009	9,700	9,100	110	1,001	23.60	23,624
<b>Cucumbers</b>						
2005	5,500	5,200	180	936	16.00	14,976
2006	5,600	5,200	170	884	18.50	16,354
2007	5,000	4,900	175	858	17.90	15,358
2008	4,200	4,100	185	759	18.60	14,117
2009	4,400	4,300	225	968	19.20	18,586
<b>Onions</b>						
2005	3,000	2,900	260	754	13.00	7,852
2006	3,500	3,400	250	850	14.60	9,928
2007	3,900	3,800	260	988	11.10	8,747
2008	4,000	3,600	280	1,008	15.20	12,282
2009	4,000	3,800	350	1,330	13.50	14,310
<b>Tomatoes</b>						
2005	2,000	2,000	220	440	38.00	16,720
2006	2,000	2,000	230	460	50.00	23,000
2007	2,200	2,200	230	506	49.00	24,794
2008	2,200	2,100	260	546	45.00	24,570
2009	2,100	2,000	300	600	35.00	21,000

<sup>1</sup> Value of sales for onions.

**Vegetables, dual purpose: Acres, production, and value, 2005-2009**

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Asparagus						
2005	12,700	12,200	19	232	51.80	12,006
2006	12,200	11,700	22	257	57.80	14,866
2007	12,100	11,600	21	244	66.00	16,092
2008	11,700	11,200	23	258	71.80	18,516
2009	11,200	10,700	22	235	70.40	16,553
Celery						
2005	1,700	1,600	575	920	11.40	10,493
2006	1,800	1,700	530	900	22.10	19,920
2007	2,000	1,900	490	931	13.20	12,334
2008	1,900	1,800	525	945	15.60	14,705
2009	2,000	1,900	555	1,055	14.10	14,898
Peppers, bell						
2005	1,500	1,400	280	392	23.00	9,016
2006	1,500	1,400	270	378	26.00	9,828
2007	1,500	1,500	260	390	33.00	12,870
2008	1,600	1,600	250	400	30.00	12,000
2009	1,700	1,600	240	384	30.00	11,520
Pumpkins						
2005	6,000	5,200	145	754	12.00	9,048
2006	6,200	5,700	150	855	11.00	9,405
2007	7,000	6,200	115	713	12.00	8,556
2008	7,100	6,800	145	986	15.50	15,283
2009	7,400	6,700	110	737	14.00	10,318
Squash						
2005	8,600	7,900	220	1,738	9.40	16,337
2006	8,400	8,100	210	1,701	8.50	14,459
2007	7,700	7,500	190	1,425	9.50	13,538
2008	6,900	6,600	200	1,320	9.20	12,144
2009	6,700	6,500	210	1,365	8.60	11,739

**U.S. Pickle stocks in tanks, barrels, and fresh pack, December 1, 2005-2009**

Year	From current year crop			From previous year crop		Total stocks
	Salt stock including dill	Fresh pack	Refrigerated	Salt stock including dill		
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>		<i>Tons</i>
2005	161,670	46,474	3,439	38,865		250,448
2006	389,502	36,470	2,800	15,534		444,306
2007	332,011	32,795	2,850	9,076		376,732
2008	377,549	30,713	1,530	38,177		447,969
2009	134,035	25,490	2,230	27,910		189,665

## Horticulture

Michigan maintained its third place national ranking in value of wholesale sales of floriculture products in 2009. Only California and Florida reported larger sales. Reports from Michigan's 651 commercial growers (\$10K or more in gross sales) showed an estimated wholesale value of \$397.4 million for all surveyed floriculture crops, up 1 percent from last year's figure. This estimate includes summarized sales data as reported by growers with \$100K or more in sales plus a calculated wholesale value of sales for operations with sales from \$10K to \$99,999.

The leading crop category breakdowns for Michigan operations with more than \$10K in sales were:

- First, **annual bedding/garden plants** with \$180 million in sales.
- Second, **propagative materials** with \$84 million in sales.
- Third, **herbaceous perennial plants** with \$70 million in sales.
- Fourth, **potted flowering plants** with \$31 million in sales.

Michigan leads the nation in value of sales for 10 floriculture crops:

- **Impatiens (flats)** with 1.9 million flats sold, valued at \$14.4 million.
- **Begonia Hanging Baskets** with 357,000 baskets sold, valued at \$2.1 million.
- **Geraniums (flats) (cuttings)** with 66,000 flats sold, valued at \$1.1 million.
- **Geranium Hanging Baskets (cuttings)** with 593,000 baskets sold, valued at \$4.4 million.
- **Impatiens Hanging Baskets** with 517,000 sold, valued at \$2.8 million.

- **New Guinea Impatiens Hanging Baskets** with 462,000 baskets sold, valued at \$3.3 million.
- **Petunias Hanging Baskets** with 818,000 baskets sold, valued at \$4.7 million.
- **Potted Geraniums (seed)** with 16.7 million pots sold, valued at \$13.7 million.
- **Potted Petunias** with 3.0 million pots sold, valued at \$5.2 million.
- **Potted Hostas** with 2.7 million pots sold, valued at \$7.3 million.

Other notable Michigan crops that ranked second in value of sales nationally were:

- **Begonias (flats)** with 897,000 flats sold, valued at \$6.8 million.
- **Marigolds (flats)** with 821,000 flats sold, valued at \$6.2 million.
- **Petunias (flats)** with 1.5 million flats sold, valued at \$12.1 million.
- **Pansy/Viola Hanging Baskets** with 371,000 baskets sold, valued at \$1.8 million.
- **Other Flowering and Foliar Hanging Baskets** with 1.7 million baskets sold, valued at \$13.0 million.
- **Potted Geraniums (cuttings)** with 3.4 million pots sold, valued at \$8.6 million.
- **Potted Hardy/Garden Chrysanthemums** with 4.9 million pots sold, valued at \$12.3 million.
- **Potted Other Herbaceous Perennials** with 17.9 million pots sold, valued at \$50.5 million.
- **Potted Easter Lilies** with 1.5 million pots sold, valued at \$5.8 million.

**Floriculture crops: Number of growers by gross value of sales, 2005-2009**

Year	\$10,000- \$19,999	\$20,000- \$39,000	\$40,000- \$49,000	\$50,000- \$99,999	\$100,000- \$499,999	\$500,000 or more	Total growers
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
2005	46	94	41	173	203	140	697
2006	60	83	42	154	193	139	671
2007	39	77	43	155	176	138	628
2008	84	111	46	160	181	138	720
2009	82	88	41	105	205	130	651

**Floriculture crops: Growing area by type of cover, 2005-2009**

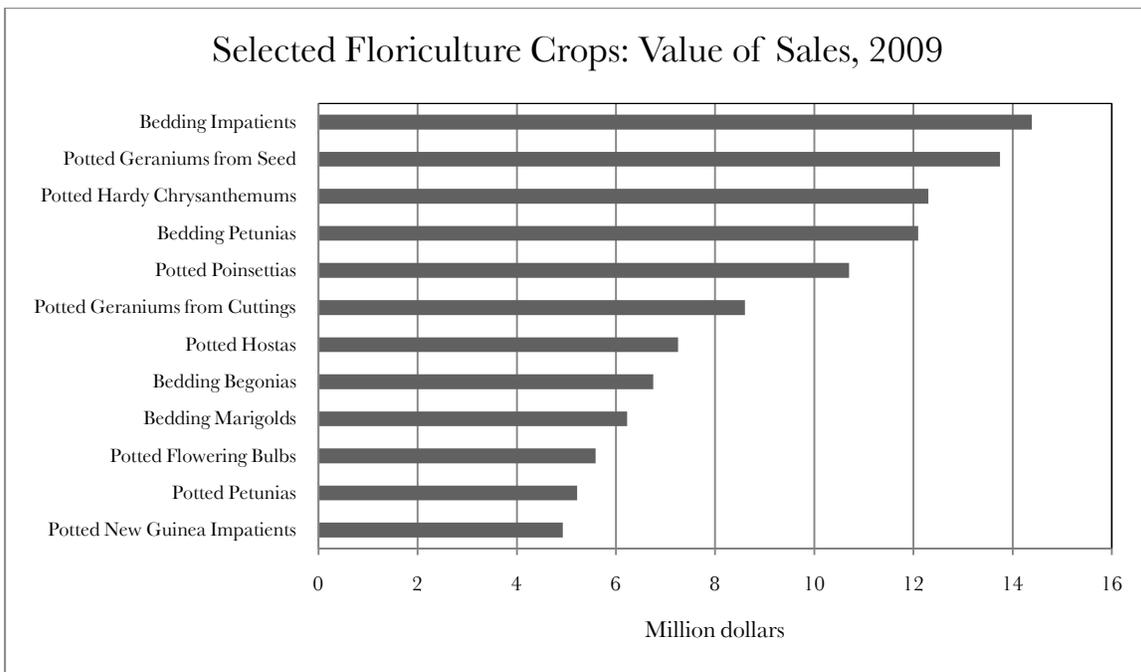
Year	Glass greenhouses	Fiberglass and other rigid greenhouses	Plastic film greenhouses	Total greenhouse cover	Shade and temporary cover	Total covered area	Open ground
	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>Acres</i>
2005	4,327	4,614	36,937	45,878	1,183	47,061	4,958
2006	4,149	5,684	37,364	47,197	1,170	48,367	3,484
2007	3,751	4,495	38,746	46,992	1,091	48,038	4,058
2008	3,922	4,953	38,064	46,939	1,054	47,993	4,004
2009	3,740	4,809	40,456	49,005	1,141	50,146	5,296

**Floriculture crops: Wholesale value of sales by category, 2005-2009**

Year	Total cut flowers	Total potted flowering plants	Total foliage for indoor or patio use	Total bedding/garden plants	Total wholesale value of reported crops	Expanded wholesale value of reported crops <sup>1</sup>
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2005	9,240	33,979	4,453	237,125	367,416	385,402
2006	6,608	33,329	4,504	239,301	364,132	380,500
2007	7,487	35,043	3,605	257,325	387,040	405,760
2008	( <sup>2</sup> )	32,872	3,085	256,165	375,744	393,500
2009	( <sup>2</sup> )	31,042	9,807	250,246	384,427	397,402

<sup>1</sup> Wholesale value of sales as reported by growers with \$100,000 or more in sales of floriculture crops plus a calculated wholesale value of sales for growers with sales below \$100,000. The value of sales for growers below the \$100,000 level was estimated by multiplying the number of growers in each size group by the midpoint of each dollar range.

<sup>2</sup> Not published to avoid disclosure of individual operations.



**Bedding plants: Producers, quantity sold, price, and value, 2005-2009**

Item	Producers	Quantity sold	Percent of sales at wholesale	Wholesale price	Value of sales at wholesale
	<i>Number</i>	<i>1,000 flats</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Begonias</b>					
2005	225	1,350	86	7.18	9,693
2006	218	922	86	7.51	6,924
2007	206	821	86	7.43	6,100
2008	205	827	86	7.44	6,153
2009	224	897	83	7.53	6,754
<b>Geraniums from cuttings</b>					
2005	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
2006	13	185	72	7.91	1,463
2007	11	67	18	10.29	689
2008	12	60	11	12.96	778
2009	20	66	42	16.65	1,099
<b>Geraniums from seed</b>					
2005	35	60	83	11.32	679
2006	33	55	87	11.80	649
2007	25	48	82	12.87	618
2008	22	48	78	11.90	571
2009	33	56	68	11.33	634
<b>Impatiens</b>					
2005	221	2,063	85	7.41	15,287
2006	224	2,128	86	7.17	15,258
2007	220	2,088	88	7.29	15,222
2008	220	1,932	87	7.22	13,949
2009	226	1,947	85	7.39	14,388
<b>Marigolds</b>					
2005	227	772	84	7.34	5,666
2006	227	753	85	7.31	5,504
2007	216	723	86	7.54	5,451
2008	213	705	86	7.35	5,182
2009	225	821	87	7.58	6,223
<b>New Guinea Impatiens</b>					
2005	23	78	84	10.67	832
2006	22	71	85	10.23	726
2007	15	43	48	8.34	359
2008	18	34	68	8.36	284
2009	32	57	78	7.50	428
<b>Pansies/Violas</b>					
2005	206	804	88	7.03	5,652
2006	203	813	87	6.85	5,569
2007	194	711	90	7.15	5,084
2008	194	629	90	7.53	4,736
2009	205	594	89	7.16	4,253
<b>Petunias</b>					
2005	248	1,557	85	7.41	11,537
2006	239	1,592	86	7.48	11,908
2007	228	1,457	87	7.49	10,913
2008	228	1,476	87	7.46	11,011
2009	238	1,549	86	7.81	12,098
<b>Other flowering and foliar</b>					
2005	242	3,673	85	7.67	28,172
2006	232	3,956	88	7.64	30,224
2007	225	3,389	89	7.65	25,926
2008	209	2,927	86	7.28	21,309
2009	217	2,544	85	7.68	19,538
<b>Vegetables <sup>2</sup></b>					
2005	182	630	74	8.16	5,141
2006	188	644	73	7.98	5,139
2007	173	726	84	7.80	5,663
2008	168	696	82	8.14	5,665
2009	148	852	86	7.77	6,620

<sup>1</sup> Not published to avoid disclosure of individual operations.

<sup>2</sup> Does not include vegetable transplants grown for commercial use.

**Hanging baskets: Producers, quantity sold, price, and value, 2005-2009**

Item	Producers	Quantity sold	Percent of sales at wholesale	Wholesale price	Value of sales at wholesale
	<i>Number</i>	<i>1,000 baskets</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Begonias</b>					
2005	169	435	86	5.63	2,449
2006	166	473	89	5.62	2,658
2007	170	447	88	5.31	2,374
2008	161	365	88	6.00	2,190
2009	168	357	86	5.92	2,113
<b>Geraniums from cuttings</b>					
2005	213	717	81	6.69	4,797
2006	210	734	81	6.73	4,940
2007	208	776	78	6.57	5,098
2008	205	613	79	7.04	4,316
2009	203	593	80	7.44	4,412
<b>Geraniums from seed</b>					
2005	29	68	97	6.19	421
2006	23	71	98	5.98	425
2007	23	61	97	5.54	338
2008	24	40	89	5.97	239
2009	35	81	93	7.13	578
<b>Impatiens</b>					
2005	200	551	86	5.09	2,805
2006	186	655	89	5.28	3,458
2007	188	721	91	4.81	3,468
2008	187	568	90	5.28	2,999
2009	179	517	85	5.43	2,807
<b>Marigolds</b>					
2005	3	2	100	4.98	10
2006	6	12	100	3.31	40
2007	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
2008	11	24	100	3.69	89
2009	9	24	98	3.90	94
<b>New Guinea Impatiens</b>					
2005	218	804	90	6.22	5,001
2006	215	713	90	6.52	4,649
2007	209	674	91	6.28	4,233
2008	205	469	87	7.00	3,283
2009	203	462	88	7.04	3,252
<b>Pansies/Violas</b>					
2005	35	85	95	4.80	408
2006	38	108	91	4.57	494
2007	43	145	96	5.14	745
2008	45	84	94	5.92	497
2009	43	371	98	4.86	1,803
<b>Petunias</b>					
2005	193	545	83	5.49	2,992
2006	190	784	90	5.90	4,626
2007	200	808	89	5.40	4,363
2008	206	850	88	5.83	4,956
2009	199	818	85	5.76	4,712
<b>Other flowering</b>					
2005	204	2,098	84	6.05	12,693
2006	197	2,201	88	6.31	13,888
2007	202	2,370	87	6.93	16,424
2008	192	2,068	87	6.99	14,455
2009	193	1,720	87	7.53	12,952
<b>Foliage</b>					
2005	62	273	91	4.81	1,313
2006	68	333	89	4.51	1,502
2007	63	214	86	5.52	1,181
2008	59	179	85	5.73	1,026
2009	47	759	98	5.66	4,296

<sup>1</sup> Not published to avoid disclosure of individual operations.

**Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 2005-2009**

Item	Producers	Quantity sold			Percent of sales at wholesale	Wholesale price		Value of sales at wholesale
		Less than 5 inch pots	5 inch pots or larger	Total		Less than 5 inch pots	5 inch pots or larger	
	<i>Number</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Azaleas</b>								
2005	20	( <sup>1</sup> )	68	68	87	( <sup>1</sup> )	7.60	517
2006	22	( <sup>1</sup> )	77	77	89	( <sup>1</sup> )	7.27	560
2007	17	( <sup>1</sup> )	58	58	84	( <sup>1</sup> )	7.24	420
2008	17	( <sup>1</sup> )	47	47	80	( <sup>1</sup> )	7.40	348
2009	14	( <sup>1</sup> )	45	45	94	( <sup>1</sup> )	6.37	287
<b>Begonias</b>								
2005	92	545	119	664	89	1.11	3.40	1,010
2006	94	526	72	598	85	1.10	3.34	819
2007	87	1,047	209	1,256	92	0.71	2.63	1,293
2008	99	619	153	772	91	1.28	3.02	1,254
2009	107	539	158	697	88	1.56	3.10	1,331
<b>Chrysanthemums, florist</b>								
2005	24	28	262	290	89	1.71	5.99	1,617
2006	27	38	173	211	85	1.54	3.55	673
2007	22	( <sup>1</sup> )	173	173	82	( <sup>1</sup> )	3.11	538
2008	20	20	91	111	86	1.72	4.19	416
2009	15	13	40	53	77	1.58	4.83	214
<b>Chrysanthemums, hardy garden</b>								
2005	144	558	5,114	5,672	95	1.00	2.09	11,246
2006	134	620	4,869	5,489	94	1.02	2.23	11,490
2007	131	772	4,154	4,926	94	1.19	2.99	13,339
2008	131	1,020	4,612	5,632	94	1.33	2.58	13,256
2009	134	403	4,508	4,911	93	1.21	2.62	12,299
<b>Easter Lilies</b>								
2005	39	( <sup>1</sup> )	1,267	1,267	98	( <sup>1</sup> )	3.62	4,580
2006	43	( <sup>1</sup> )	1,168	1,168	97	( <sup>1</sup> )	3.88	4,530
2007	33	( <sup>1</sup> )	1,131	1,131	98	( <sup>1</sup> )	3.88	4,393
2008	33	( <sup>1</sup> )	1,116	1,116	98	( <sup>1</sup> )	3.86	4,308
2009	33	( <sup>1</sup> )	1,539	1,539	98	( <sup>1</sup> )	3.77	5,808
<b>Geraniums from cuttings</b>								
2005	212	3,644	1,263	4,907	69	1.79	4.10	11,701
2006	219	3,191	1,218	4,409	65	1.84	4.33	11,145
2007	215	2,861	1,352	4,213	69	1.91	4.13	11,048
2008	205	2,654	1,348	4,002	66	1.87	4.09	10,476
2009	213	2,349	1,039	3,388	62	1.96	3.85	8,604
<b>Geraniums from seed</b>								
2005	100	15,792	79	15,871	98	0.78	4.89	12,704
2006	97	19,514	9	19,523	99	0.78	9.63	15,308
2007	94	18,328	11	18,339	99	0.79	4.46	14,528
2008	93	18,150	20	18,170	99	0.80	5.97	14,639
2009	93	16,651	64	16,715	98	0.81	4.07	13,748
<b>Impatiens</b>								
2005	69	554	111	665	95	0.84	3.10	809
2006	54	584	89	673	95	0.75	4.31	822
2007	60	698	237	935	91	0.72	1.81	932
2008	61	523	173	696	92	1.34	2.76	1,178
2009	73	527	220	747	91	1.12	1.94	1,017
<b>Marigolds</b>								
2005	24	113	82	195	97	0.76	1.63	220
2006	17	( <sup>1</sup> )	223	223	98	( <sup>1</sup> )	1.77	394
2007	22	207	230	437	97	0.43	2.40	641
2008	20	141	73	214	99	0.88	2.52	308
2009	27	182	98	280	98	0.61	1.72	280
<b>New Guinea Impatiens</b>								
2005	182	4,255	532	4,787	95	1.25	2.94	6,883
2006	178	4,104	267	4,371	94	1.23	4.55	6,263
2007	172	3,954	402	4,356	95	1.33	3.35	6,606
2008	170	3,870	422	4,292	94	1.39	3.34	6,789
2009	183	2,844	489	3,333	93	1.26	2.75	4,928

See footnote(s) at end of table.

--continued

**Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 2005-2009 (continued)**

Item	Producers	Quantity sold			Percent of sales at wholesale	Wholesale price		Value of sales at wholesale
		Less than 5 inch pots	5 inch pots or larger	Total		Less than 5 inch pots	5 inch pots or larger	
	<i>Number</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Pansies/Violas								
2005	59	901	313	1,214	98	0.44	2.82	1,279
2006	49	1,712	( <sup>1</sup> )	1,712	98	1.14	( <sup>1</sup> )	1,952
2007	50	1,239	744	1,983	99	0.46	2.20	2,207
2008	48	1,099	389	1,488	99	0.82	2.74	1,967
2009	56	1,035	534	1,569	94	0.61	2.14	1,774
Petunias								
2005	91	1,142	1,325	2,467	93	0.89	2.70	4,594
2006	90	1,208	991	2,199	90	1.30	2.89	4,434
2007	96	1,441	1,075	2,516	92	0.95	2.87	4,454
2008	104	1,629	860	2,489	94	1.41	3.40	5,221
2009	117	2,275	803	3,078	89	1.29	2.84	5,215
Poinsettias								
2005	86	656	2,485	3,141	91	1.89	4.15	11,553
2006	79	530	2,284	2,814	91	1.99	4.54	11,424
2007	72	461	2,221	2,682	92	2.07	5.04	12,148
2008	67	396	1,983	2,379	93	2.13	4.58	9,926
2009	65	573	2,112	2,685	91	1.91	4.55	10,704
Roses, florist								
2005	13	( <sup>1</sup> )	54	54	88	( <sup>1</sup> )	3.86	209
2006	18	76	( <sup>1</sup> )	76	93	3.85	( <sup>1</sup> )	293
2007	14	( <sup>1</sup> )	35	35	86	( <sup>1</sup> )	6.05	212
2008	8	( <sup>1</sup> )	30	30	96	( <sup>1</sup> )	6.56	197
2009	9	( <sup>1</sup> )	23	23	85	( <sup>1</sup> )	6.77	156
Flowering bulbs								
2005	40	6,921	( <sup>1</sup> )	6,921	100	1.25	( <sup>1</sup> )	8,679
2006	42	7,472	( <sup>1</sup> )	7,472	100	1.29	( <sup>1</sup> )	9,669
2007	33	5,909	( <sup>1</sup> )	5,909	100	2.08	( <sup>1</sup> )	12,308
2008	33	7,733	( <sup>1</sup> )	7,733	100	1.56	( <sup>1</sup> )	12,063
2009	31	329	1,267	1,596	99	1.86	3.93	5,591
Other flowering plants								
2005	47	1,124	411	1,535	84	1.46	4.18	3,359
2006	50	1,098	498	1,596	71	1.22	4.86	3,760
2007	39	364	294	658	86	2.08	5.70	2,433
2008	43	536	613	1,149	89	1.47	3.72	3,068
2009	72	772	1,176	1,948	91	2.01	4.34	6,656
Other flowering and foliar type bedding plants								
2005	137	12,738	3,216	15,954	89	1.17	3.26	25,388
2006	150	14,966	3,365	18,331	89	1.15	3.54	29,123
2007	146	14,351	3,146	17,497	87	1.41	4.08	33,071
2008	136	12,942	3,795	16,737	89	1.53	3.51	33,122
2009	177	11,029	3,923	14,952	88	1.50	3.75	31,255
Vegetable type <sup>2</sup>								
2005	96	5,448	267	5,715	98	0.59	2.66	3,925
2006	92	2,858	403	3,261	94	0.56	3.61	3,055
2007	94	6,575	874	7,449	95	0.69	2.35	6,591
2008	98	7,656	882	8,538	96	0.94	2.41	9,322
2009	99	3,339	1,696	5,035	88	0.87	2.56	7,247

<sup>1</sup> Pot sizes have been combined into category with greatest production to avoid disclosure of individual operations.

<sup>2</sup> Does not include vegetable transplants grown for commercial use.

**Herbaceous perennials: Producers, quantity sold, price, and value, 2005-2009**

Item	Producers	Quantity sold				Percent of sales at wholesale	Wholesale price			Value of All sales at wholesale
		Less than 1 gallon	1 to 2 gallon	2 gallon and larger	Total		Less than 1 gallon	1 to 2 gallon	2 gallon and larger	
	<i>Number</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Hosta										
2005	121	431	605	112	1,148	86	1.53	3.38	6.37	3,418
2006	113	928	567	59	1,554	90	1.77	3.38	7.52	4,003
2007	106	1,911	808	55	2,774	95	1.78	4.13	7.33	7,142
2008	106	2,103	911	48	3,062	95	1.73	4.04	7.48	7,678
2009	110	1,631	1,020	48	2,699	96	1.91	3.66	8.48	7,255
Other										
2005	147	13,964	5,916	306	20,186	92	1.09	3.54	9.11	38,951
2006	140	8,673	6,639	301	15,613	89	0.98	3.21	7.11	31,951
2007	127	8,184	8,007	279	16,470	90	1.48	3.54	6.72	42,332
2008	124	13,350	7,343	432	21,125	92	1.36	3.71	6.70	48,293
2009	144	9,049	8,158	646	17,853	93	1.68	3.81	6.58	50,535

# Census of Agriculture

## 2008 Farm and Ranch Irrigation Survey

In 2008, Michigan farmers irrigated 531,927 acres, approximately 5 percent of the land in farms reported on the 2007 Census of Agriculture. This total ranked Michigan twenty-first in the U.S. for acres irrigated. 2,121 Michigan farms irrigated in 2008.

In Michigan, growers applied an average of 0.6 acre-feet per acre. Wells provided the largest percentage of irrigation water applied in 2008. The number of wells capable of being used for irrigation in 2008 was 4,439, but only 4,097 were used. The remainder of the irrigation water came from off-farm water supplies and on-farm surface sources.

Corn for grain or seed continued as the dominant irrigated crop for Michigan with 248,790 irrigated harvested acres; 47 percent of irrigated land. Vegetables, including potatoes, ranked second in the State with 114,222 acres irrigated. Soybeans were another highly irrigated crop in Michigan.

For the first time, the 2008 FRIS includes horticultural specialty operations with sales of \$10,000 or greater. In Michigan in 2008, there were 1,372 horticulture operations who irrigate. These operations applied water to 63.0 million square feet of crops under protection, and 17 thousand acres of horticultural crops in the open. In Michigan, 795 million gallons were applied to crops under protection, and 2.1 billion gallons were used to water crops in the open.

The 2008 FRIS is a Census follow-on survey and was conducted in the spring of 2009. Results were published in February 2010, and can be accessed on the Internet at [www.agcensus.usda.gov](http://www.agcensus.usda.gov), by clicking on "2008 Farm and Ranch Irrigation Survey."

### Farm and Ranch Irrigation Survey: Michigan, 2003 and 2008

	2003 <sup>1</sup>	2008
Irrigating Farms	2,366	2,121
Acres Irrigated	432,665	531,927
Acre-feet applied	218,245	298,440
Average Acre-feet per acre	0.5	0.6
Farms using Sprinkler Systems	1,832	1,517
Farms using Drip/trickle/low-flow sprinklers	692	739
Acres irrigated using Sprinkler System	418,778	503,738
Acres irrigated with Drip/trickle/low-flow sprinklers	16,583	30,927
Wells Used	4,031	4,097
Crops Irrigated		
Irrigated Corn Acres	185,788	248,790
Yield per Irrigated Acre [Bushels]	165	175
Irrigated Soybean Acres	72,371	73,986
Yield per Irrigated Acre [Bushels]	43	51
Vegetables (including potatoes)	104,048	114,222
Irrigating Horticultural Operations	( <sup>2</sup> )	1,372
Irrigated Area Under Protection (1000 Sq Ft)	( <sup>2</sup> )	62,987
Gallons Applied (1,000)	( <sup>2</sup> )	795,444
Irrigated Area in the open (Acres)	( <sup>2</sup> )	16,882
Gallons Applied (1,000)	( <sup>2</sup> )	2,089,767

<sup>1</sup> Not comparable to 2008 data. Horticulture data for operations with > \$10,000 in sales are included in 2003 general FRIS, but separated out in 2008.

<sup>2</sup> Data not separated out in 2003. Combined with above.

# Census of Agriculture

## 2008 Organic Production Survey

As a follow-on to the 2007 Census of Agriculture, the National Agricultural Statistics Service (NASS) conducted the U.S. Department of Agriculture's first in-depth survey of organic farming in the United States. NASS collected 2008 data from operators of farms that were either USDA-certified organic, were making the transition to organic production, or were exempt from certification because of sales totaling less than \$5,000.

Michigan organic sales totaled \$71.1 million, including \$40.3 million in crops sales, \$5.3 million in livestock and poultry sales, and \$25.5 million in sales of livestock and poultry products. Average sales were \$160,885 per farm. The average size of Michigan organic farms is 148 acres. In 2008, Michigan had 68 farms in the process of transitioning 5,387 more acres of cropland to organic production.

Results of the 2008 Organic Production Survey can be accessed on the Internet at [www.agcensus.usda.gov](http://www.agcensus.usda.gov), by clicking on "2008 Organic Production Survey."

### Organic Production Survey: Michigan, 2008 <sup>1</sup>

	Number	Value of sales (\$1,000)
Organic Farms	461	71,111
Crop (Including Nursery and Greenhouse)	397	40,385
Livestock and Poultry	112	5,261
Livestock and Poultry Products	89	25,465
Organic Cropland Acres	61,478	
Corn for Grain or Seed	13,760	12,030
Soybeans	12,583	7,708
Winter Wheat for Grain or Seed	4,982	2,408
All Dry Edible Beans	4,781	3,942
Oats for Grain or Seed	1,941	585
All Dry Hay	6,125	1,071
All Vegetables, Potatoes, and Melons Harvested	1,893	4,709
All Fruit Harvested	703	1,352
Organic Maple Syrup (taps)	3,227	31
Livestock on Organic Farms (Peak Inventory)		
Chickens-Layers	13,967	29
Eggs	( <sup>2</sup> )	( <sup>2</sup> )
Chickens-Broilers	11,765	99
Hogs and Pigs	1,270	( <sup>2</sup> )
Dairy Cows	2,102	254
Milk from Cows (Lbs)	18,150,933	( <sup>2</sup> )
Beef Cows	957	237
All other Cattle and Calves	2,410	789

<sup>1</sup> All data are for Certified and Exempt Organic Production

<sup>2</sup> Not disclosed

# Livestock, Dairy, and Poultry

## Livestock: Record highs and lows

Livestock	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Cattle and calves	1,000 head	2,036	1944	538	1867	1867
Cattle on feed	1,000 head	210	2004	57	1931	1930
Chickens, all <sup>1</sup>	1,000 birds	15,512	1944	6,190	1997	1924
Cows, beef	1,000 head	239	1977	24	1925,1933	1920
Cows, milk	1,000 head	1,080	1945	225	1867	1867
Eggs <sup>2</sup>	Million eggs	2,784	2009	1,104	1929	1924
Hogs and pigs <sup>1</sup>	1,000 head	1,397	1943	512	1934	1867
Honey	1,000 pounds	11,780	1939	3,960	2006,2009	1921
Milk	Million pounds	7,968	2009	3,941	1927	1924
Sheep	1,000 head	3,100	1867	62	1999	1867
Wool	1,000 pounds	8,424	1934	380	2009	1934

<sup>1</sup> December 1.

<sup>2</sup> December 1 previous year to November 30.

## Cattle and Calves

The January 1, 2010, Michigan cattle herd was 1.10 million head, up 3 percent unchanged from a year earlier. The milk cow inventory, 354,000 head, was up 1,000 from the previous year; milk cow replacement heifers increased by 10,000 to 158,000 head. The beef cow inventory increased to 96,000 head; beef cow replacements numbered 27,000 head. The number of steers rose by

15,000 to 200,000 head. The 2009 calf crop was 380,000 head, up 5,000 from the previous year.

Cash receipts from cattle and calf marketings totaled \$288.7 million, down 25 percent from 2008. The liveweight marketed was 415.7 million pounds, 16 percent below the 2008 total. The top 5 counties in cattle and calves inventory on January 1, 2010, were Huron, Allegan, Clinton, Sanilac, and Ionia.

### Cattle and calves: Number on farms by class, January 1, 2006-2010

Class	2006	2007	2008	2009	2010
	<i>1,000 head</i>				
All cows that have calved	415	435	450	445	450
Beef cows	101	108	106	92	96
Milk cows	314	327	344	353	354
Heifers, 500 pounds and over	213	205	213	225	235
Beef cow replacement	31	33	31	27	27
Milk cow replacement	137	135	137	148	158
Other	45	37	45	50	50
Steers, 500 pounds and over	195	190	195	185	200
Bulls, 500 pounds and over	17	17	16	15	15
Calves, under 500 pounds	190	213	196	200	200
All cattle and calves	1,030	1,060	1,070	1,070	1,100

**Cattle and calves: Balance sheet, 2005-2009**

Year	All cattle and calves on hand January 1	Calf crop	Inshipments	Marketings <sup>1</sup>		Farm slaughter cattle and calves <sup>2</sup>	Deaths		All cattle and calves on hand following January 1
				Cattle	Calves		Cattle	Calves	
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2005	1,000	350	60	273	31	4	25	47	1,030
2006	1,030	365	68	289	37	4	25	48	1,060
2007	1,060	375	75	325	42	4	23	46	1,070
2008	1,070	375	95	357	42	4	23	44	1,070
2009	1,070	380	61	296	37	4	28	46	1,100

<sup>1</sup> Includes custom slaughter and state outshipments, but excludes inter-farm sales within the State.

<sup>2</sup> Excludes custom slaughter for farmers at commercial establishments.

**Cattle and calves: Production and income, 2005-2009**

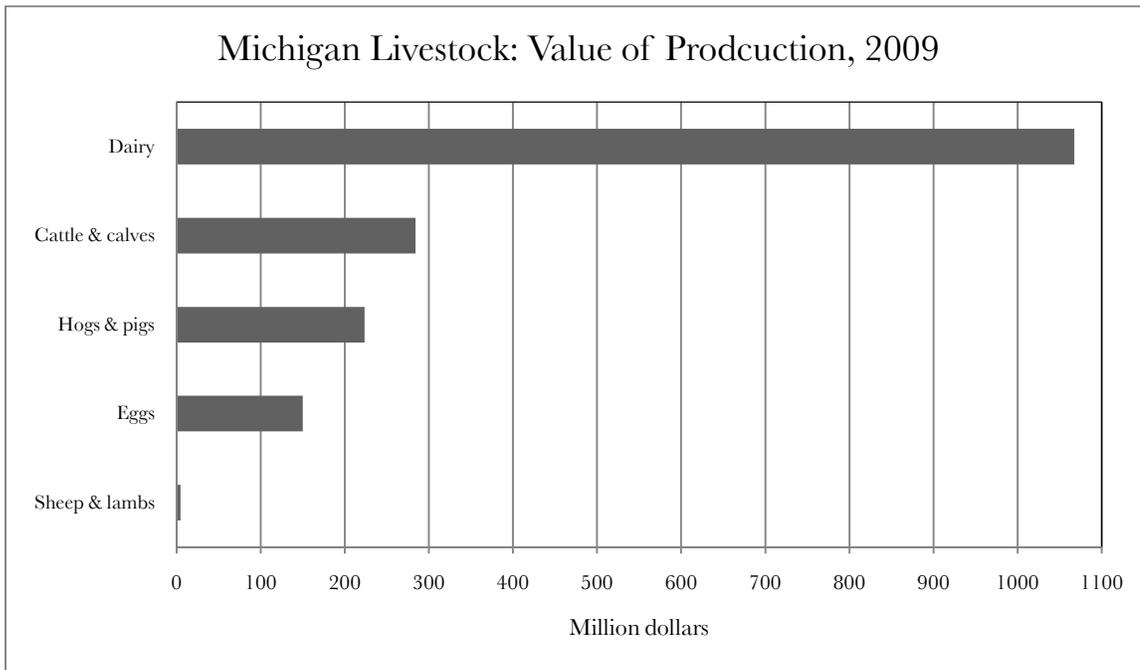
Year	Production <sup>1</sup>	Marketings <sup>2</sup>	Average price per cwt		Value of production	Cash receipts <sup>4</sup>	Value of home consumption	Gross income
			All beef <sup>3</sup>	Calves				
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2005	365,334	369,815	73.20	132.00	259,915	277,781	9,257	287,038
2006	379,197	396,925	71.90	134.00	266,622	294,626	9,127	303,753
2007	428,409	443,590	75.80	118.00	314,853	343,331	9,835	353,166
2008	443,350	494,368	77.10	99.90	335,670	384,943	9,823	394,766
2009	417,194	415,688	68.70	88.60	284,037	288,660	8,749	297,409

<sup>1</sup> Adjustments made for changes in inventory and for inshipments.

<sup>2</sup> Excludes custom slaughter for use on farms where produced and inter-farm sales within the State.

<sup>3</sup> Combined price for "Cows" and "Steers and Heifers".

<sup>4</sup> Receipts from marketings and sale of farm slaughter.



## Dairy

Milk production in Michigan during 2009 was 7,968 million pounds, up 2.6 percent from 2008. Michigan ranked ninth nationally in milk production in 2009, accounting for 4.09 percent of U.S. production. Huron, Clinton, and Sanilac were the three top counties in milk cows.

The annual average number of milk cows on Michigan farms during 2009 was 355,000 head, up 5,000 from 2008. Milk

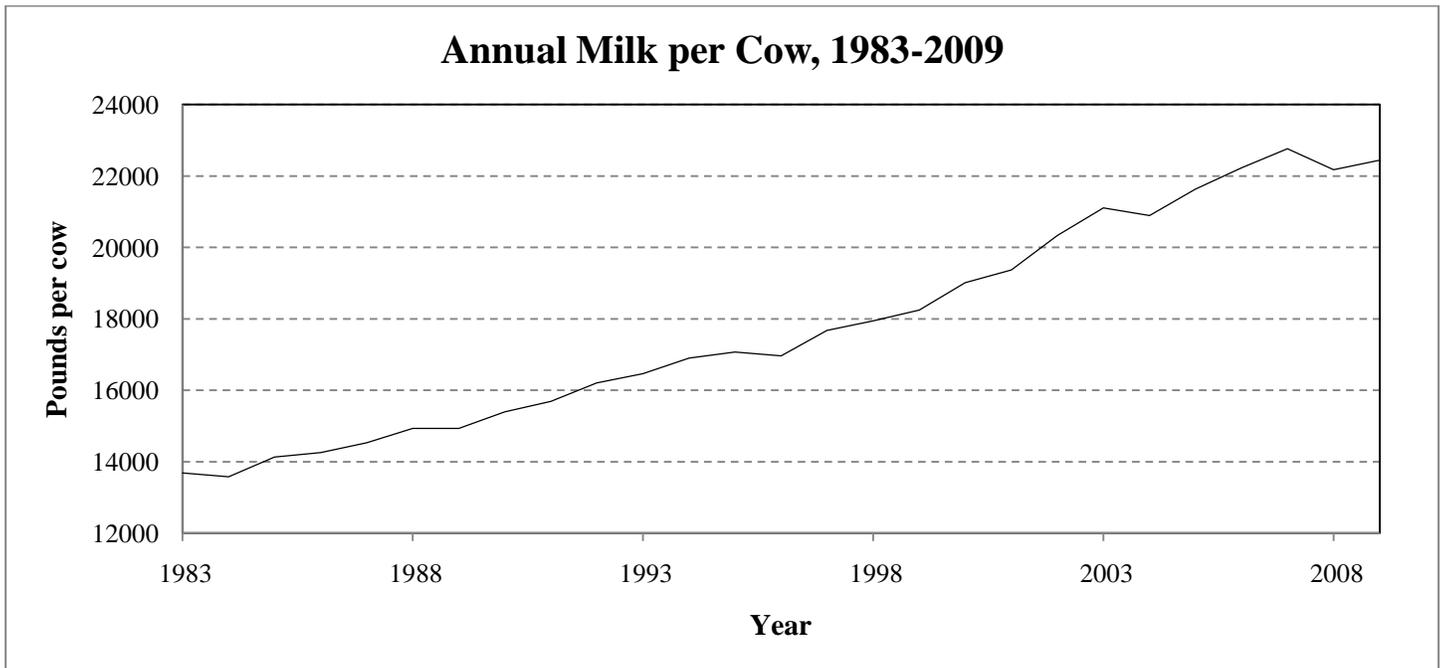
production per cow was 22,445 pounds in 2009, compared with 22,180 pounds during 2008. The average butterfat content was 3.63 percent, down from 3.64 in 2008.

Milk prices during the year averaged \$13.40 per cwt., down \$5.80 from 2008. Cash receipts from milk sales totaled \$1,064.0 million, down 28.4 percent from 2008. Milk continued as the top ranked Michigan commodity in cash receipts.

**Milk: Production, utilization, marketings, and value, 2005-2009**

Item	Unit	2005	2006	2007	2008	2009
<b>Production</b>						
Total milk produced on farms	Million pounds	6,750	7,115	7,625	7,763	7,968
Milkfat produced	Million pounds	243.7	258.3	275.3	282.6	289.2
Milkfat	Percent	3.61	3.63	3.61	3.64	3.63
<b>Utilization</b>						
<b>Milk used where produced</b>						
Fed to calves	Million pounds	23	23	23	23	26
Used for milk, cream, and butter	Million pounds	2	2	2	2	2
<b>Milk marketed by producers</b>						
Milk marketed by producers	Million pounds	6,725	7,090	7,600	7,738	7,940
Average return per 100 pounds of milk	Dollars	15.40	13.30	19.70	19.20	13.40
Average return per pound milkfat	Dollars	4.27	3.66	5.46	5.27	3.69
Fluid grade	Percent	99	99	100	100	100
Total cash receipts	1,000 dollars	1,035,650	942,970	1,497,200	1,485,696	1,063,960
<b>Value</b>						
Value of milk used where produced <sup>1</sup>	1,000 dollars	3,850	3,325	4,925	4,800	3,752
Total value of milk produced	1,000 dollars	1,039,500	946,295	1,502,125	1,490,496	1,067,712

<sup>1</sup> Includes value of milk fed to calves and milk used by farm households.



**Milk cows: Number by month, 2005-2009**

Month	2005	2006	2007	2008	2009
	<i>1,000 head</i>				
January	306	314	329	344	354
February	308	314	328	344	354
March	309	316	329	345	355
April	311	318	331	347	356
May	312	320	332	350	357
June	313	322	334	351	357
July	313	322	336	352	356
August	314	320	338	352	355
September	314	321	339	352	355
October	313	321	341	353	355
November	313	323	343	353	354
December	314	326	344	354	354
Annual	312	320	335	350	355

**Milk production: Total by month, 2005-2009**

Month	2005	2006	2007	2008	2009
	<i>Million pounds</i>				
January	546	593	640	657	660
February	511	542	576	605	602
March	564	602	645	645	673
April	569	588	636	638	664
May	597	614	654	677	698
June	574	601	638	653	675
July	579	610	655	669	692
August	578	589	649	655	678
September	550	578	620	630	651
October	563	589	638	651	660
November	546	585	626	628	639
December	573	624	648	655	676
Annual	6,750	7,115	7,625	7,763	7,968

**Milk: Production per cow, by month, 2005-2009**

Month	2005	2006	2007	2008	2009
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
January	1,785	1,890	1,945	1,910	1,865
February	1,660	1,725	1,755	1,760	1,700
March	1,825	1,905	1,960	1,870	1,895
April	1,830	1,850	1,920	1,840	1,865
May	1,915	1,920	1,970	1,935	1,955
June	1,835	1,865	1,910	1,860	1,890
July	1,850	1,895	1,950	1,900	1,945
August	1,840	1,840	1,920	1,860	1,910
September	1,750	1,800	1,830	1,790	1,835
October	1,800	1,835	1,870	1,845	1,860
November	1,745	1,810	1,825	1,780	1,805
December	1,825	1,915	1,885	1,850	1,910
Annual	21,635	22,234	22,761	22,180	22,445

**Dairy Products, by Region, 2005-2009**

Product	Region	2005	2006	2007	2008	2009
		<i>Million pounds</i>				
Cheese, total <sup>1</sup>	Central	3,998.7	4,030.8	4,081.4	4,342.6	4,585.6
Cheese, American type <sup>2</sup>	Central	1,773.0	1,709.5	1,646.6	1,856.4	1,984.8
Cheese, Italian <sup>3</sup>	Central	1,404.2	1,503.0	1,556.2	1,602.6	1,672.4
Butter <sup>3</sup>	Central	608.2	645.3	663.4	686.4	651.4
Cottage cheese, lowfat	ENC	61.1	56.9	53.1	55.3	57.8
Cottage cheese, creamed	ENC	97.8	92.9	82.3	86.8	86.7
Cottage cheese curd	ENC	100.1	87.8	84.1	88.4	78.8
Yogurt, plain and flavored	ENC	1,014.1	1,083.4	1,244.2	1,163.8	1,275.0
Condensed skim milk, unsweetened, bulk <sup>3</sup>	Central	249.5	303.5	393.3	379.4	337.0
Nonfat dry milk for human food	Central	194.3	159.3	160.5	190.6	162.0
Dry whey for human food	Central	450.2	477.9	497.5	476.7	470.2
		<i>1,000 gallons</i>				
Ice cream, regular, hard	ENC	174,049	172,269	174,411	172,945	178,773
Ice cream, lowfat, total	ENC	115,034	117,701	110,386	115,427	103,649
Sherbet, hard	ENC	11,337	10,335	11,313	9,950	9,436
Frozen yogurt mix	ENC	4,210	4,066	3,808	4,211	4,091
Ice cream mix, regular	ENC	95,951	92,933	100,207	93,873	105,979
Ice cream mix, lowfat	ENC	64,670	68,485	60,982	62,515	55,647
Sherbet mix	ENC	7,241	6,535	7,190	6,222	5,664

<sup>1</sup> Excluding cottage cheese.

<sup>2</sup> Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

<sup>3</sup> Not available at Central district level in 2004.

Central: ND, SD, MN, NB, IA, KS, MO, KY, OK, AK, TN, TX, LA, MS, AL, IL, IN, MI, OH, WI

ENC: IL, IN, MI, OH, and WI

## Hogs and Pigs

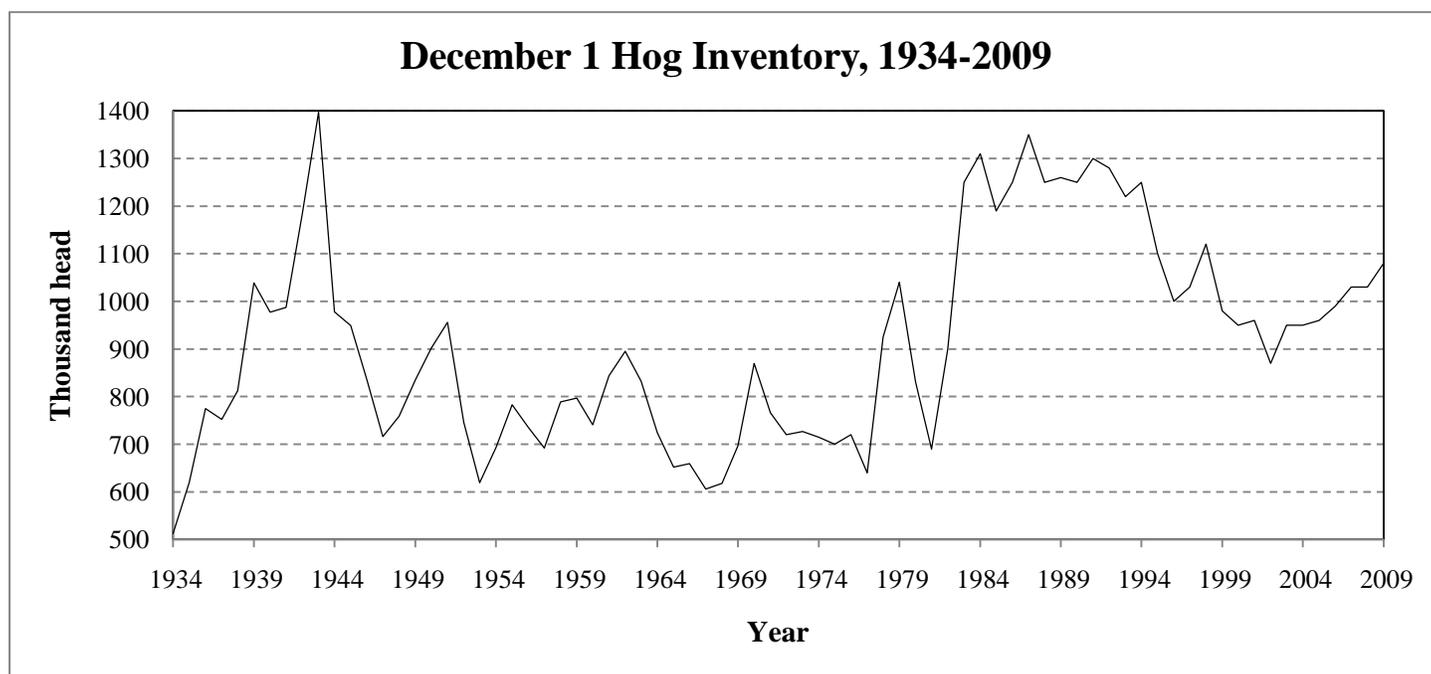
The December 1, 2009, Michigan hog inventory was 1.08 million head, up 50 thousand from a year earlier. Breeding hogs were 10 percent of the total inventory while market hogs made up the remaining 90 percent. From December 2008 through November 2009, 219,000 sows farrowed; the litter rate was 9.69 pigs per litter. The resulting Michigan 2009 pig crop was 2.122 million head, up 6 percent from the previous year. Hog production totaled 606.6

million pounds in 2009, up 5.3 percent from 2008. Marketings of hogs and pigs totaled 611.4 million pounds in 2009, up 5.5 percent from 2008. Michigan hog producers received an average of \$37.00 per cwt in 2009, compared with the 2008 average price of \$42.50 per cwt. Cash receipts generated from hogs and pigs totaled \$229.6 million, down 8 percent from a year earlier.

**Hogs and pigs: Inventory, 2006-2010**

Month and year	Market hogs and pigs					Breeding stock	Total hogs and pigs
	Under 50 <sup>1</sup> pounds	50-119 <sup>1</sup> pounds	120-179 pounds	180 lbs and over	Total market		
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
March 1							
2006	315	200	175	170	860	100	960
2007	300	210	175	185	870	110	980
2008	290	245	170	175	880	100	980
2009	315	265	160	190	930	110	1,040
2010	320	250	185	205	960	110	1,070
June 1							
2006	335	195	175	175	880	100	980
2007	325	215	190	180	910	110	1,020
2008	290	265	185	190	930	100	1,030
2009	325	285	160	180	950	110	1,060
September 1							
2006	300	220	180	180	880	100	980
2007	335	230	230	185	980	100	1,080
2008	325	270	185	170	950	100	1,050
2009	330	265	160	195	950	110	1,060
December 1							
2006	295	225	170	190	880	110	990
2007	315	235	200	180	930	100	1,030
2008	290	270	175	185	920	110	1,030
2009	335	270	165	200	970	110	1,080

<sup>1</sup> Classes before 2008 were under 60 pounds and 60-119 pounds.



**Hogs and pigs: Sows farrowing and pig crop, 2005-2010**

Year	December-February <sup>1</sup>			March-May		
	Sows farrowing	Pigs per litter	Pig crop	Sows farrowing	Pigs per litter	Pig crop
	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>
2006	48	9.30	446	47	9.20	432
2007	49	8.75	429	53	9.00	477
2008	53	9.45	491	53	9.70	514
2009	53	9.70	514	54	9.65	521
2010	54	9.80	529			
	June-August			September-November		
2005	48	9.25	444	47	9.20	432
2006	48	9.15	439	50	8.95	448
2007	55	9.20	506	53	9.45	501
2008	53	9.25	490	53	9.65	512
2009	56	9.60	538	56	9.80	549

<sup>1</sup> December of previous year.

**Hogs and pigs: Balance sheet, 2005-2009**

Year	Beginning inventory	Dec-Nov pig crop	Inshipments	Marketings <sup>1</sup>	Farm slaughter <sup>2</sup>	Deaths	Number on hand December 1
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2005	950	1,677	255	1,854	4	64	960
2006	960	1,765	186	1,846	4	71	990
2007	990	1,913	233	2,024	4	78	1,030
2008	1,030	2,007	172	2,097	4	78	1,030
2009	1,030	2,122	205	2,206	4	67	1,080

<sup>1</sup> Includes custom slaughter and state outshipments, but excludes sales within Michigan.

<sup>2</sup> Excludes custom slaughter for farmers at commercial establishments.

**Hogs and pigs: Production and income, 2005-2009**

Year	Production <sup>1</sup>	Marketings <sup>2</sup>	Average price per cwt	Value of production	Cash receipts <sup>3</sup>	Value of home consumption	Gross income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2005	471,420	478,725	46.70	219,390	229,852	474	230,326
2006	482,308	481,060	42.00	201,668	205,669	426	206,095
2007	549,965	558,570	41.10	223,478	233,132	438	233,570
2008	575,459	579,740	42.50	243,828	249,776	455	250,231
2009	606,574	611,350	37.00	223,320	229,612	396	230,008

<sup>1</sup> Adjustments made for changes in inventory and for inshipments.

<sup>2</sup> Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.

<sup>3</sup> Receipts from marketing and sales of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.

## Honey

Michigan honey production for 2009 totaled 3.96 million pounds, down 24 percent from 2008. This estimate included honey from producers with 5 or more colonies. Nationally, Michigan ranked ninth in honey production in 2009, down from seventh in 2008. Yields from Michigan's 66,000 colonies producing honey

averaged 60 pounds in 2009, compared with 73 pounds the previous year.

Michigan honey price averaged \$1.51 per pound, up 7 cents per pound from last year. Value of production totaled \$5.98 million, down 20 percent from 2008. Honey stocks were 1.51 million pounds, down 26 percent from 2008.

### Honey: Production and value, 2005-2009 <sup>1</sup>

Year	Honey producing colonies	Yield per colony	Production	Price per pound	Value of production	Stocks Dec 15 <sup>2</sup>
	<i>Thousands</i>	<i>Pounds</i>	<i>1,000 pounds</i>	<i>Cents</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>
2005	65	68	4,420	94	4,155	2,519
2006	72	55	3,960	115	4,554	2,099
2007	72	64	4,608	119	5,484	2,350
2008	71	73	5,183	144	7,464	2,021
2009	66	60	3,960	151	5,980	1,505

<sup>1</sup> Includes only producers with 5 or more colonies.

<sup>2</sup> Stocks held by producers.

## Mink

### Mink: Farms, pelts produced and females bred to produce kits, 2006-2010

Year	2006	2007	2008	2009	2010
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Pelts produced	54,000	52,600	44,100	45,300	( <sup>1</sup> )
Females bred to produce kits	12,100	12,330	10,300	10,900	11,100

<sup>1</sup> Published in July 2011.

## Poultry

The combined value of production in Michigan from eggs and other chickens (primarily culled layers) during 2009 was \$149.9 million, down 29 percent from a year earlier. Egg production totaled 2.8 billion eggs, up 5 percent from last year. The market egg price

averaged 65 cents per dozen, down 31 cents from 2008. The number of chickens sold was 3.1 million birds in 2009, up 28 percent from last year.

### Chickens: Layers on hand, December 1, 2005-2009

Class	2005	2006	2007	2008	2009
	<i>1,000 head</i>				
Total layers	8,357	9,218	9,141	9,638	10,384
Pullets not of laying age	1,752	2,156	1,835	1,890	2,157
Other chickens	1	1	1	1	2
All chickens (excluding broilers)	10,110	11,375	10,977	11,529	12,543

### Turkeys: Number raised and production, 2005-2009 <sup>1</sup>

Year	Number raised <sup>2</sup>	Pounds produced
	<i>Thousands</i>	<i>1,000 pounds</i>
2005	4,600	172,500
2006	4,700	178,600
2007	5,100	191,760
2008 <sup>3</sup>		
2009 <sup>3</sup>		

<sup>1</sup> December 1 previous year through November 30.

<sup>2</sup> Based on turkeys placed Sep 1 through Aug 31. Excludes young turkeys lost.

<sup>3</sup> Estimate no longer published.

### All eggs: Production and value, 2005-2009 <sup>1</sup>

Year	Eggs produced	Price per dozen	Value of production
	<i>Million</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2005	2,142	0.347	61,870
2006	2,391	0.367	73,097
2007	2,563	0.727	155,371
2008	2,653	0.957	211,524
2009	2,784	0.646	149,883

<sup>1</sup> December 1 previous year through November 30.

### All egg production, by month, 2005-2009

Month	2005	2006	2007	2008	2009
	<i>Million eggs</i>				
December	174	194	214	225	236
January	163	190	208	217	236
February	160	177	195	204	213
March	185	204	223	226	237
April	176	193	217	215	221
May	188	199	219	216	227
June	187	195	205	213	228
July	186	202	212	226	238
August	179	208	211	227	244
September	177	204	207	221	233
October	182	214	227	233	237
November	185	211	225	230	234
Total <sup>1</sup>	2,142	2,391	2,563	2,653	2,784

<sup>1</sup> Sum of months may not add to total due to rounding.

**All layers: Average number on hand during the month, 2005-2009**

Month	2005	2006	2007	2008	2009
	<i>1,000 head</i>				
December	7,482	8,260	9,102	9,082	9,594
January	7,389	8,169	8,901	9,032	9,601
February	7,869	8,380	9,016	9,134	9,610
March	8,017	8,436	9,133	9,189	9,830
April	7,954	8,192	9,090	9,149	9,790
May	8,018	8,288	8,825	9,117	9,787
June	8,024	8,451	8,813	9,257	9,952
July	8,022	8,521	8,941	9,331	9,656
August	7,944	8,850	8,744	9,230	9,695
September	7,798	9,121	8,789	9,191	10,022
October	7,770	9,117	8,950	9,348	10,208
November	8,117	9,146	9,088	9,590	10,328
Annual <sup>1</sup>	7,867	8,578	8,949	9,221	9,839

<sup>1</sup> December 1 previous year through November 30.

## Sheep and Goats

All sheep and lamb inventory in Michigan on January 1, 2010, was estimated at 80,000 head, up 2,000 head from the previous year. The breeding sheep inventory was 61,000 head; market sheep and lambs totaled 19,000 head. The 2009 Michigan lamb crop was 65,000 head, unchanged from 2008. Sheep and lamb value of production was \$4.43 million for 2009, and cash receipts totaled \$4.15 million. Sheep shorn in 2009 totaled 62,000 head, down 5,000

from 2008. The weight per fleece was 6.1 pounds, and wool production was 380,000 pounds. Wool production was valued at \$163,000.

The number of goats continued to increase. There were 10,900 milk goats on January 1, 2010, up 20 percent from a year earlier. The number of goats in the meat and other category increased to 16,000 head from 13,500 head on January 1, 2009.

### Goats: Number by class, January 1, 2006-2010

Year	Angora	Milk	Meat and other
	<i>Head</i>	<i>Head</i>	<i>Head</i>
2006	1,000	8,000	10,000
2007	1,000	8,600	11,000
2008	( <sup>1</sup> )	8,400	12,000
2009	( <sup>1</sup> )	9,100	13,500
2010	( <sup>1</sup> )	10,900	16,000

<sup>1</sup> Not published.

### Sheep and lambs: Number on farms by class, January 1, 2006-2010

Class	2006	2007	2008	2009	2010
	<i>1,000 Head</i>				
Breeding sheep 1 year and older					
Ewes	48	47	48	47	46
Rams	3	3	3	3	3
Replacement lambs	12	11	12	10	12
Total market sheep and lambs	21	20	19	18	19
All sheep and lambs	84	81	82	78	80

### Sheep and lambs: Lamb crop, 2005-2009

Year	Breeding ewes <sup>1</sup>	Lambs per 100 ewes <sup>1</sup>	Lamb crop
	<i>1,000 Head</i>	<i>Number</i>	<i>1,000 Head</i>
2005	46	139	64
2006	48	123	59
2007	47	145	68
2008	48	135	65
2009	47	138	65

<sup>1</sup> Ewes 1 year and older January 1.

### Sheep and lambs: Balance sheet, 2005-2009

Year	All sheep and lambs on hand January 1	Lamb crop	Inshipments	Marketings <sup>1</sup>		Farm slaughter <sup>2</sup>	Deaths		All sheep and lambs on hand following January 1
				Sheep	Lambs		Sheep	Lambs	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>
2005	83	64	2.0	5.5	45.0	2.5	4.0	8.0	84
2006	84	59	3.0	10.5	42.0	2.5	3.0	7.0	81
2007	81	68	3.0	6.5	49.0	2.5	4.0	8.0	82
2008	82	65	2.5	9.5	49.5	2.5	3.0	7.0	78
2009	78	65	3.0	8.5	45.0	2.5	3.0	7.0	80

<sup>1</sup> Includes custom slaughter and state outshipments, but excludes sales within Michigan.

<sup>2</sup> Excludes custom slaughter for farmers at commercial establishments.

### Sheep and lambs: Production and income, 2005-2009

Year	Production <sup>1</sup>	Marketings <sup>2</sup>	Average price per cwt		Value of production	Cash receipts <sup>3</sup>	Value of home consumption	Gross income
			Sheep	Lambs				
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2005	5,078	4,620	45.00	105.00	4,697	4,455	388	4,843
2006	4,415	4,693	36.00	87.00	3,334	3,467	321	3,788
2007	5,038	4,828	32.00	93.00	4,186	4,034	354	4,388
2008	4,935	5,258	29.00	95.00	4,027	4,274	302	4,576
2009	4,895	4,760	34.00	101.00	4,430	4,153	323	4,476

<sup>1</sup> Adjustments made for changes in inventory and for inshipments.

<sup>2</sup> Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.

<sup>3</sup> Receipts from marketings and sale of farm slaughter.

### Sheep and lambs: Wool production and value, 2005-2009

Year	Sheep shorn	Weight per fleece	Production	Price per pound	Value of production
	<i>1,000 Head</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>
2005	81	5.9	480	39	187
2006	71	6.1	430	45	194
2007	70	6.1	430	36	155
2008	67	6.0	400	34	136
2009	62	6.1	380	43	163

## Trout

The value of all trout sold and distributed in Michigan was \$933,000 in 2009. This was a \$94,000 decrease from last season.

Trout 12 inches or longer had sales of 340,000 pounds with an average liveweight of 1.1 pound per fish. Sales of trout 12 inches or longer were valued at \$751,000 for an average value of \$2.21 per pound.

For trout between 6 and 12 inches and between 1 and 6 inches, information was not published separately to avoid disclosure of individual operations.

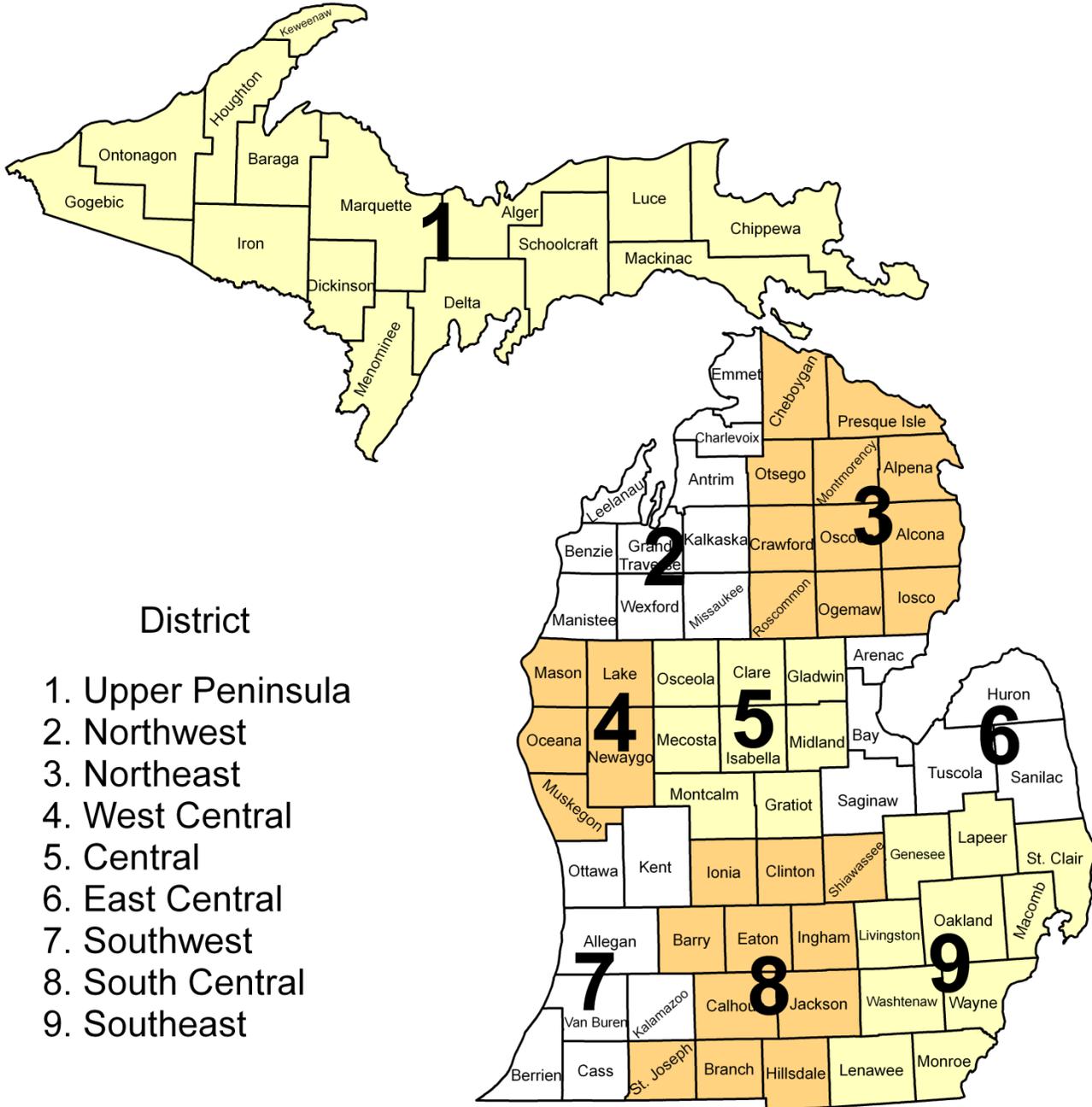
Losses of trout in Michigan amounted to 203,000 fish, weighing 76,000 pounds.

### Trout: Sales, 12 inches or longer, 2005-2009

Size category	Number of fish sold	Live weight	Sales	
			Total	Average per pound
	<i>1,000</i>	<i>1,000</i>	<i>1,000 dollars</i>	<i>Dollars</i>
2005	255	295	634	2.15
2006	320	304	620	2.04
2007	240	236	675	2.86
2008	300	296	864	2.92
2009	300	340	751	2.21

# 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 counties for field crops, 2009 <sup>1</sup>**

Rank	Corn for grain	Dry beans	Hay <sup>2</sup>	Oats	Soybeans	Sugarbeets	Wheat
1	Huron	Huron	Sanilac	Sanilac	Sanilac	Huron	Huron
2	Saginaw	Tuscola	Osceola	Montcalm	Lenawee	Sanilac	Sanilac
3	Lenawee	Bay	Isabella	Presque Isle	Saginaw	Tuscola	Lenawee
4	Sanilac	Sanilac	Lapeer	Bay	Monroe	Saginaw	Tuscola
5	Gratiot	Montcalm	Ottawa	Isabella	Gratiot	Bay	Saginaw

<sup>1</sup>Based on total production.

<sup>2</sup>Based on 2007 Census of Agriculture

**Principal counties for livestock <sup>1</sup>**

Rank	January 1, 2010 Cattle and Calves	January 1, 2008 Hogs and pigs	January 1, 2010 Milk cows
1	Huron	Allegan	Huron
2	Allegan	Cass	Clinton
3	Clinton	Branch	Sanilac
4	Sanilac	Gratiot	Allegan
5	Ionia	Ottawa	Ionia

<sup>1</sup>Based on number of head.

**Principal counties for fruits and vegetables, 2007 <sup>1</sup>**

Rank	Apples	Blueberries	Grapes	Tart Cherries	Asparagus	Cucumbers, processing	Snap beans, processing
1	Kent	Van Buren	Berrien	Oceana	Oceana	Saginaw	St. Joseph
2	Berrien	Ottawa	Van Buren	Leelanau	Mason	Bay	Branch
3	Ottawa	Allegan	Cass	Antrim	Van Buren	St. Joseph	Oceana
4	Van Buren	Muskegon	Leelanau	Grand Traverse	Cass	Montcalm	Tuscola
5	Oceana	Berrien	Kalamazoo	Berrien	Manistee	Branch	Genesee

<sup>1</sup>Based on acres from 2007 Census of Agriculture.

**Corn: Acreage, yield, and production, by county, 2008 <sup>1</sup>**

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Delta	3,500	2,200	64	140	1,300	15.5	20,000
Menominee	16,500	8,900	76	675	7,500	11.0	84,000
Other counties	4,000	1,800	58	105	2,200	12.0	26,000
<b>Upper Peninsula</b>	24,000	12,900	71	920	11,000	12.0	130,000
Antrim	3,600	2,700	81	220			
Benzie	1,700	1,400	79	110			
Charlevoix	2,900	2,400	79	190	500	12.0	6,000
Emmet	1,700	1,100	89	98			
Grand Traverse	7,400	6,200	77	480			
Leelanau	2,900	2,500	84	210			
Missaukee	18,800	8,800	122	1,070	9,900	13.5	135,000
Wexford	5,600	4,800	83	400			
Other counties	2,400	1,900	75	142	4,600	9.6	44,000
<b>Northwest</b>	47,000	31,800	92	2,920	15,000	12.5	185,000
Alpena	6,700	4,600	109	500			
Iosco	8,000	6,200	131	810	1,700	17.0	29,000
Montmorency	2,100	1,800	106	190			
Ogemaw	11,100	8,000	139	1,110	3,000	10.5	31,000
Presque Isle	5,800	4,900	104	510			
Other counties	5,300	3,300	94	310	5,300	13.0	70,000
<b>Northeast</b>	39,000	28,800	119	3,430	10,000	13.0	130,000
Mason	14,800	12,100	99	1,200	2,600	16.0	42,000
Muskegon	19,600	12,900	119	1,540	6,600	13.5	90,000
Newaygo	30,600	21,100	108	2,280	9,300	16.5	155,000
Other counties	15,000	12,400	91	1,130	2,500	13.0	33,000
<b>West Central</b>	80,000	58,500	105	6,150	21,000	15.0	320,000
Clare	4,900	3,200	109	350			
Gladwin	8,700	7,900	138	1,090			
Gratiot	92,000	84,500	138	11,700	7,200	20.0	145,000
Isabella	42,000	36,800	134	4,940	5,000	14.0	70,000
Mecosta	25,000	20,700	108	2,240	4,200	13.5	56,000
Midland	23,000	21,700	151	3,280			
Montcalm	65,500	58,500	126	7,390	6,700	17.5	118,000
Osceola	8,900	4,700	109	510	4,200	14.0	58,000
Other counties					3,700	17.0	63,000
<b>Central</b>	270,000	238,000	132	31,500	31,000	16.5	510,000
Arenac	20,000	18,200	165	3,000			
Bay	49,000	47,200	163	7,700			
Huron	123,000	101,000	174	17,600	21,500	21.0	450,000
Saginaw	97,000	94,900	161	15,300			
Sanilac	103,000	89,600	171	15,300	13,000	19.0	250,000
Tuscola	88,000	84,100	174	14,600			
Other counties					8,500	16.5	140,000
<b>East Central</b>	480,000	435,000	169	73,500	43,000	19.5	840,000

See footnote(s) at end of table.

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**Corn: Acreage, yield, and production, by county, 2008 <sup>1</sup> (continued)**

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Allegan	92,000	76,100	147	11,200			
Berrien	44,000	42,900	148	6,350			
Cass	75,000	74,300	148	11,000			
Kalamazoo	55,000	52,000	120	6,250			
Kent	42,000	34,400	134	4,600	7,500	16.5	125,000
Ottawa	46,000	34,900	117	4,070	10,900	14.0	155,000
Van Buren	36,000	33,900	142	4,830			
Other counties					21,600	18.0	390,000
<b>Southwest</b>	390,000	348,500	139	48,300	40,000	17.0	670,000
Barry	46,000	38,300	131	5,020	7,500	18.5	140,000
Branch	83,000	80,300	122	9,820			
Calhoun	75,000	71,200	109	7,730	3,500	17.0	59,000
Clinton	77,000	62,200	142	8,830	14,500	20.5	300,000
Eaton	58,000	56,400	129	7,250			
Hillsdale	67,000	60,700	124	7,520			
Ingham	48,000	43,400	129	5,580			
Ionia	81,000	70,200	148	10,400	10,500	14.5	150,000
Jackson	54,000	50,300	111	5,590	3,500	15.0	52,000
St Joseph	84,000	80,700	114	9,200	2,900	22.0	64,000
Shiawassee	57,000	53,300	147	7,860	3,500	15.0	52,000
Other counties					14,100	14.5	203,000
<b>South Central</b>	730,000	667,000	127	84,800	60,000	17.0	1,020,000
Genesee	33,000	32,200	138	4,430			
Lapeer	40,000	36,100	150	5,420			
Lenawee	99,000	90,100	134	12,100	8,500	17.5	150,000
Livingston	20,500	18,600	126	2,350	1,800	14.0	25,000
Macomb	12,500	11,800	160	1,890			
Monroe	59,000	58,300	139	8,130			
St Clair	31,500	30,000	159	4,780			
Washtenaw	41,000	39,000	110	4,280	1,800	18.5	33,000
Other counties	3,500	3,400	124	420	6,900	16.0	112,000
<b>Southeast</b>	340,000	319,500	137	43,800	19,000	17.0	320,000
<b>Michigan</b>	2,400,000	2,140,000	138	295,320	250,000	16.5	4,125,000

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

**Corn: Acreage, yield, and production, by county, 2009**

County and district	Planted for all purposes	Grain			Silage <sup>1</sup>		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Delta	3,300	2,200	84	185			
Menominee	16,000	6,600	68	450			
Other counties	3,700	1,200	71	85			
<b>Upper Peninsula</b>	23,000	10,000	72	720			
Antrim	3,900	2,100	119	250			
Charlevoix	2,500	1,800	131	235			
Emmet	1,500	1,100	84	92			
Grand Traverse	7,800	6,100	100	610			
Leelanau	2,700	2,400	94	225			
Manistee	2,100	1,800	117	210			
Missaukee	19,300	7,800	109	850			
Wexford	5,100	3,500	101	355			
Other counties	2,100	1,400	124	173			
<b>Northwest</b>	47,000	28,000	107	3,000			
Alcona	2,800	1,900	95	180			
Alpena	6,100	4,600	107	490			
Iosco	6,300	5,100	133	680			
Montmorency	1,900	1,500	117	175			
Ogemaw	12,000	8,100	123	1,000			
Otsego	900	700	114	80			
Presque Isle	5,500	4,500	107	480			
Other counties	1,500	600	108	65			
<b>Northeast</b>	37,000	27,000	117	3,150			
Lake	1,100	800	119	95			
Mason	13,500	10,200	116	1,185			
Muskegon	19,000	13,800	136	1,880			
Newaygo	28,900	22,500	127	2,850			
Oceana	15,500	12,700	113	1,440			
<b>West Central</b>	78,000	60,000	124	7,450			
Clare	4,600	2,200	109	240			
Gladwin	7,900	6,800	119	810			
Gratiot	92,000	83,000	158	13,100			
Isabella	40,000	32,300	138	4,450			
Mecosta	23,700	19,500	126	2,460			
Midland	23,000	22,700	156	3,550			
Montcalm	64,000	58,700	136	8,000			
Osceola	9,800	4,800	123	590			
<b>Central</b>	265,000	230,000	144	33,200			
Arenac	17,000	15,500	145	2,250			
Bay	50,000	48,000	163	7,800			
Huron	112,000	94,000	168	15,800			
Saginaw	94,000	92,000	159	14,650			
Sanilac	102,000	87,000	154	13,400			
Tuscola	80,000	78,500	164	12,900			
<b>East Central</b>	455,000	415,000	161	66,800			

See footnote(s) at end of table.

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**Corn: Acreage, yield, and production, by county, 2009 (continued)**

County and district	Planted for all purposes	Grain			Silage <sup>1</sup>		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Allegan	92,000	79,000	165	13,000			
Berrien	48,000	46,000	150	6,900			
Cass	76,000	75,000	163	12,200			
Kalamazoo	54,000	52,000	150	7,800			
Kent	43,000	34,500	143	4,950			
Ottawa	49,000	39,000	156	6,100			
Van Buren	43,000	39,500	153	6,050			
<b>Southwest</b>	<b>405,000</b>	<b>365,000</b>	<b>156</b>	<b>57,000</b>			
Barry	44,000	32,000	144	4,600			
Branch	80,000	78,000	135	10,500			
Calhoun	77,000	72,500	139	10,100			
Clinton	74,000	57,000	148	8,450			
Eaton	58,000	56,000	152	8,500			
Hillsdale	69,000	63,500	136	8,650			
Ingham	50,000	46,000	151	6,950			
Ionia	81,000	68,000	154	10,500			
Jackson	53,000	48,000	125	6,000			
St Joseph	79,000	77,000	155	11,900			
Shiawassee	55,000	52,000	143	7,450			
<b>South Central</b>	<b>720,000</b>	<b>650,000</b>	<b>144</b>	<b>93,600</b>			
Genesee	27,000	26,500	125	3,300			
Lapeer	32,000	31,000	134	4,150			
Lenawee	101,000	93,000	154	14,300			
Livingston	19,500	18,000	139	2,500			
Macomb	12,500	11,500	152	1,750			
Monroe	59,000	58,500	164	9,600			
Oakland	1,300	1,300	119	155			
St Clair	26,000	25,000	130	3,250			
Washtenaw	40,000	38,500	134	5,150			
Wayne	1,700	1,700	144	245			
<b>Southeast</b>	<b>320,000</b>	<b>305,000</b>	<b>146</b>	<b>44,400</b>			
<b>Michigan</b>	<b>2,350,000</b>	<b>2,090,000</b>	<b>148</b>	<b>309,320</b>	<b>220,000</b>	<b>15.5</b>	<b>3,410,000</b>

<sup>1</sup> County estimates for corn silage discontinued in 2009.

**Dry edible beans, all: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup>**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>
Other counties	1,200	1,100	820	9				
<b>Upper Peninsula</b>	1,200	1,100	820	9				
<b>Northeast</b>					3,700	3,300	1,390	46
Gratiot	9,400	9,200	1,350	124	7,300	7,200	1,510	109
Isabella	2,900	2,800	1,210	34	2,700	2,700	1,960	53
Midland	4,100	4,100	1,390	57	3,400	3,400	1,710	58
Montcalm	9,300	9,200	1,350	124	8,200	8,100	1,590	129
Other counties	4,600	4,400	1,480	65	2,200	2,000	1,700	34
<b>Central</b>	27,400	26,900	1,380	370	23,800	23,400	1,640	383
Arenac	5,300	5,200	1,770	92	5,500	5,400	1,940	105
Bay	19,400	18,700	1,900	355	19,200	19,000	1,840	349
Huron	79,200	77,500	2,030	1,570	82,700	81,400	1,880	1,529
Saginaw	6,000	5,800	1,620	94	6,100	6,000	1,550	93
Sanilac	17,000	16,300	1,870	305	17,100	15,000	1,530	229
Tuscola	36,100	35,500	1,980	704	35,400	35,200	1,910	672
<b>East Central</b>	163,000	159,000	1,960	3,120	166,000	162,000	1,840	2,977
Kent	1,500	1,400	1,710	24				
<b>Southwest</b>	1,500	1,400	1,710	24	1,600	1,600	2,130	34
Other counties	2,000	1,900	1,530	29				
<b>South Central</b>	2,000	1,900	1,530	29	2,300	2,100	1,710	36
<b>Southeast</b>	900	800	1,750	14				
<b>Other districts</b>	4,000	3,900	1,050	41	2,600	2,600	1,310	34
<b>Michigan</b>	200,000	195,000	1,850	3,607	200,000	195,000	1,800	3,510

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

**Oats: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup>**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Chippewa	1,500	1,100	46	51	1,500	1,200	56	67
Delta					1,900	1,400	69	97
Dickinson					700	500	66	33
Mackinac	500	400	70	28				
Menominee	1,900	1,500	57	85	2,500	1,600	53	85
Ontonagon	500	300	53	16				
Other counties	5,100	4,500	56	250	3,400	3,100	54	168
<b>Upper Peninsula</b>	<b>9,500</b>	<b>7,800</b>	<b>55</b>	<b>430</b>	<b>10,000</b>	<b>7,800</b>	<b>58</b>	<b>450</b>
Antrim	800	800	56	45	600	400	40	16
Charlevoix	800	700	71	50	500	500	58	29
Emmet	500	300	47	14				
Grand Traverse	2,000	2,000	68	135	1,700	1,600	62	99
Leelanau	600	600	58	35	500	400	65	26
Missaukee	1,200	800	44	35	1,400	1,000	65	65
Wexford	700	600	58	35	800	700	47	33
Other counties	400	400	28	11	1,000	600	37	22
<b>Northwest</b>	<b>7,000</b>	<b>6,200</b>	<b>58</b>	<b>360</b>	<b>6,500</b>	<b>5,200</b>	<b>56</b>	<b>290</b>
Alcona	700	500	80	40	600	300	63	19
Alpena					2,300	2,300	60	137
Cheboygan	500	400	50	20	500	400	45	18
Iosco	1,600	900	72	65	1,100	700	67	47
Ogemaw	2,000	1,700	59	100	2,400	1,600	64	102
Otsego					600	500	40	20
Presque Isle	3,800	3,700	69	255	2,900	2,800	60	169
Other counties	3,400	2,600	58	150	600	300	60	18
<b>Northeast</b>	<b>12,000</b>	<b>9,800</b>	<b>64</b>	<b>630</b>	<b>11,000</b>	<b>8,900</b>	<b>60</b>	<b>530</b>
Mason	1,100	900	56	50	1,000	800	73	58
Muskegon	700	650	69	45				
Newaygo	1,100	1,000	67	67	1,000	600	65	39
Oceana					1,000	800	61	49
Other counties	600	450	62	28	1,000	900	49	44
<b>West Central</b>	<b>3,500</b>	<b>3,000</b>	<b>63</b>	<b>190</b>	<b>4,000</b>	<b>3,100</b>	<b>61</b>	<b>190</b>
Clare					1,000	900	61	55
Gladwin	900	900	67	60	1,000	600	60	36
Gratiot	700	650	54	35				
Isabella	2,700	1,800	75	135	2,200	2,200	68	149
Mecosta					2,800	2,500	59	148
Montcalm					3,000	2,300	78	179
Osceola	700	600	58	35	1,200	700	60	42
Other counties	8,000	7,050	62	435	800	600	77	46
<b>Central</b>	<b>13,000</b>	<b>11,000</b>	<b>64</b>	<b>700</b>	<b>12,000</b>	<b>9,800</b>	<b>67</b>	<b>655</b>
Arenac	1,700	550	100	55				
Bay	600	200	75	15	600	500	74	37
Huron	2,100	1,000	95	95	2,100	1,900	88	168
Sanilac	3,500	2,700	85	230	3,300	2,700	69	187
Tuscola					900	700	71	50
Other counties	2,100	1,950	79	155	1,600	700	83	58
<b>East Central</b>	<b>10,000</b>	<b>6,400</b>	<b>86</b>	<b>550</b>	<b>8,500</b>	<b>6,500</b>	<b>77</b>	<b>500</b>

See footnote(s) at end of table.

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**Oats: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup> (continued)**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Allegan	1,100	850	59	50	1,300	1,200	52	62
Kalamazoo					500	100	50	5
Kent	1,200	900	67	60	1,400	1,000	58	58
Ottawa	600	150	67	10	700	500	40	20
Other counties	1,100	700	57	40	600	300	50	15
<b>Southwest</b>	4,000	2,600	62	160	4,500	3,100	52	160
Barry	600	300	83	25	700	500	62	31
Branch	500	500	60	30	500	200	80	16
Calhoun					800	800	64	51
Clinton					800	600	73	44
Eaton	1,100	900	56	50	800	700	57	40
Hillsdale	1,300	1,200	75	90	1,400	900	66	59
Ionia	1,300	1,150	78	90	1,400	1,300	62	81
Jackson	1,000	700	79	55	800	600	60	36
Shiawassee	2,000	1,900	82	155	1,700	1,500	88	132
Other counties	3,200	2,450	71	175	1,100	400	50	20
<b>South Central</b>	11,000	9,100	74	670	10,000	7,500	68	510
Lapeer	1,100	1,000	71	71	700	700	46	32
Lenawee	500	400	40	16				
Monroe	600	500	80	40				
St Clair	900	700	79	55	500	500	58	29
Washtenaw	600	400	75	30	700	600	60	36
Other counties	1,300	1,100	53	58	1,600	1,300	64	83
<b>Southeast</b>	5,000	4,100	66	270	3,500	3,100	58	180
<b>Michigan</b>	75,000	60,000	66	3,960	70,000	55,000	63	3,465

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

**Soybeans: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup>**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Antrim					900	850	28.0	24
Grand Traverse					500	450	31.0	14
Other counties					1,100	900	35.5	32
<b>Northwest</b>					2,500	2,200	32.0	70
Alpena	3,500	3,500	31.5	110				
Iosco	2,100	2,000	33.0	66				
Montmorency	2,300	2,300	35.5	82				
Ogemaw	900	900	44.5	40				
Presque Isle	4,100	4,000	27.5	110				
Other counties	1,100	1,100	38.0	42				
<b>Northeast</b>	14,000	13,800	32.5	450				
Mason	3,800	3,700	28.5	105	4,500	4,450	33.0	147
Muskegon	6,100	6,100	33.5	205	6,800	6,800	41.0	279
Newaygo	5,700	5,700	30.0	170	6,000	5,900	36.0	213
Oceana	2,400	2,300	30.5	70	2,700	2,650	34.5	91
<b>West Central</b>	18,000	17,800	31.0	550	20,000	19,800	37.0	730
Gratiot	80,000	79,700	36.0	2,880	78,500	78,400	42.5	3,350
Isabella	42,000	42,000	36.5	1,530	47,500	47,200	40.5	1,920
Mecosta	2,200	2,200	27.5	60				
Midland	18,000	18,000	40.5	730	19,700	19,600	40.0	785
Montcalm	20,000	19,800	35.0	690	21,500	21,400	38.0	817
Other counties	7,800	7,800	38.5	300	12,800	12,400	34.5	428
<b>Central</b>	170,000	169,500	36.5	6,190	180,000	179,000	41.0	7,300
Arenac	14,000	13,900	44.0	610	16,000	15,900	37.0	590
Bay	38,000	37,500	47.0	1,760	41,000	40,000	42.0	1,680
Huron	40,000	40,000	48.5	1,940	51,000	50,800	40.0	2,040
Saginaw	92,000	92,000	42.5	3,920	98,000	97,900	43.0	4,230
Sanilac	116,000	115,800	44.5	5,170	136,000	135,600	37.0	4,990
Tuscola	70,000	69,800	48.0	3,350	78,000	77,800	42.0	3,270
<b>East Central</b>	370,000	369,000	45.5	16,750	420,000	418,000	40.0	16,800
Allegan	44,000	43,800	35.5	1,560	42,000	41,900	45.0	1,880
Berrien	45,000	44,900	44.5	2,000	40,000	40,000	44.0	1,760
Cass	49,000	48,800	33.5	1,630	43,500	43,300	35.0	1,520
Kalamazoo	33,000	32,900	32.0	1,050	32,500	32,200	39.0	1,250
Kent	24,000	23,900	34.5	820	21,500	21,200	44.0	935
Ottawa	20,000	19,900	34.5	690	20,500	20,400	48.0	980
Van Buren	25,000	24,800	32.5	800	22,000	22,000	38.0	835
<b>Southwest</b>	240,000	239,000	36.0	8,550	222,000	221,000	41.5	9,160
Barry	28,000	27,500	31.5	870	31,000	30,600	41.0	1,260
Branch	72,000	71,800	30.5	2,190	75,000	75,000	35.0	2,640
Calhoun	73,000	72,600	27.5	1,980	73,000	72,800	39.0	2,840
Clinton	67,000	66,800	39.0	2,610	74,000	73,700	42.0	3,100
Eaton	67,000	65,000	33.5	2,170	71,000	70,900	41.5	2,950
Hillsdale	76,000	75,600	32.5	2,460	71,000	70,900	36.0	2,570
Ingham	53,000	52,800	34.5	1,830	52,000	51,600	41.5	2,140
Ionia	55,000	54,800	37.0	2,040	58,000	57,900	45.0	2,610
Jackson	42,000	41,700	26.5	1,110	40,000	39,800	38.5	1,540
St Joseph	50,000	49,800	41.5	2,070	60,000	59,900	42.0	2,530
Shiawassee	77,000	76,600	37.5	2,870	85,000	84,900	38.0	3,220
<b>South Central</b>	660,000	655,000	34.0	22,200	690,000	688,000	40.0	27,400

See footnote(s) at end of table.

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**Soybeans: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup> (continued)**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Genesee	41,000	40,800	38.0	1,550	43,000	42,900	32.5	1,400
Lapeer	42,000	41,800	44.0	1,830	48,000	47,700	36.5	1,730
Lenawee	110,000	109,500	32.0	3,500	110,000	110,000	43.0	4,750
Livingston	17,000	16,900	33.0	560	19,000	19,000	38.5	730
Macomb	22,000	21,900	45.5	1,000	26,000	25,800	39.0	1,000
Monroe	77,000	76,600	32.0	2,460	79,000	78,700	44.0	3,480
Oakland	3,000	2,900	38.0	110	4,000	3,900	38.5	150
St Clair	60,000	59,800	44.5	2,660	66,000	65,600	36.5	2,400
Washtenaw	45,000	44,800	30.0	1,350	47,000	46,900	39.5	1,850
Wayne	3,000	3,000	26.5	80	3,000	3,000	36.5	110
<b>Southeast</b>	420,000	418,000	36.0	15,100	445,000	443,500	39.5	17,600
Other districts	8,000	7,900	17.5	140	20,500	18,500	29.0	540
<b>Michigan</b>	1,900,000	1,890,000	37.0	69,930	2,000,000	1,990,000	40.0	79,600

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

**Sugarbeets: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup>**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>
<b>Northeast</b>	300	300	36.7	11	600	500	22.0	11
Gladwin	900	900	22.2	20	1,100	1,000	23.0	23
Gratiot	10,100	10,000	24.0	240	9,100	8,900	20.9	186
Isabella	700	700	24.3	17	600	600	21.7	13
Midland	3,000	3,000	26.3	79	3,200	3,200	23.1	74
Montcalm	400	400	27.5	11				
Other counties					800	500	26.0	13
<b>Central</b>	15,100	15,000	24.5	367	14,800	14,200	21.8	309
Arenac	3,100	3,100	28.1	87	3,100	3,000	24.7	74
Bay	12,600	12,600	27.1	341	13,100	12,900	21.3	275
Huron	45,800	45,800	28.5	1,306	44,000	43,900	26.4	1,160
Saginaw	15,300	15,300	28.2	432	15,100	14,900	23.4	349
Sanilac	21,200	21,100	32.2	680	24,700	24,700	24.0	594
Tuscola	18,500	18,100	30.1	544	17,500	17,300	25.9	448
<b>East Central</b>	116,500	116,000	29.2	3,390	117,500	116,700	24.9	2,900
Clinton	700	500	28.0	14	1,100	1,000	22.0	22
Ionia	500	300	30.0	9				
Shiawassee	1,300	1,300	30.0	39				
Other counties					1,700	1,500	20.7	31
<b>South Central</b>	2,500	2,100	29.5	62	2,800	2,500	21.2	53
Genesee	300	300	26.7	8				
Lapeer	1,100	1,100	30.0	33				
St Clair	1,200	1,200	26.7	32	1,200	1,100	23.6	26
Other counties					1,100	1,000	19.0	19
<b>Southeast</b>	2,600	2,600	28.1	73	2,300	2,100	21.4	45
<b>Michigan</b>	137,000	136,000	28.7	3,903	138,000	136,000	24.4	3,318

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

**Wheat: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup>**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Ontonagon	700	700	54.5	38				
Other counties	2,200	2,100	43.5	91				
<b>Upper Peninsula</b>	2,900	2,800	46.0	129	1,900	1,600	36.5	58
Grand Traverse	1,800	1,800	53.0	95	1,300	1,100	42.0	46
Kalkaska	700	700	70.0	49				
Missaukee	1,000	1,000	63.0	63	500	400	60.0	24
Wexford					500	300	50.0	15
Other counties	1,600	1,400	39.5	55	1,800	1,500	52.5	79
<b>Northwest</b>	5,100	4,900	53.5	262	4,100	3,300	49.5	164
Alcona	2,000	2,000	60.5	121	1,100	1,000	48.0	48
Alpena	5,000	5,000	43.0	215	3,700	3,300	51.0	168
Iosco	3,000	3,000	58.0	174	2,100	1,800	74.0	133
Montmorency	1,200	1,200	56.0	67	1,000	800	64.0	51
Ogemaw	2,000	2,000	81.5	163	1,900	1,100	64.5	71
Otsego	1,000	1,000	51.0	51				
Presque Isle	4,100	4,000	49.5	197	3,700	3,500	51.5	180
Other counties	700	700	38.5	27	1,000	600	53.5	32
<b>Northeast</b>	19,000	18,900	53.5	1,015	14,500	12,100	56.5	683
Mason	4,900	4,700	65.0	305	3,700	3,200	53.0	169
Muskegon	5,200	2,600	52.0	135				
Newaygo					2,400	1,300	58.5	76
Oceana	3,000	2,800	49.5	139	2,000	1,500	59.5	89
Other counties	2,900	2,200	61.5	135	2,400	700	58.5	41
<b>West Central</b>	16,000	12,300	58.0	714	10,500	6,700	56.0	375
Gladwin	2,600	2,400	62.5	150	1,700	1,300	63.0	82
Gratiot	25,300	24,300	72.0	1,750	23,200	22,000	71.0	1,560
Isabella	21,300	21,100	72.0	1,520	19,100	18,400	70.5	1,300
Mecosta	1,900	1,900	59.5	113	1,700	1,200	48.5	58
Midland	7,000	6,900	74.0	511	6,500	6,200	70.5	437
Montcalm	14,800	14,800	63.0	932	13,500	12,000	56.0	672
Other counties	2,100	2,100	59.0	124	3,300	2,000	60.5	121
<b>Central</b>	75,000	73,500	69.5	5,100	69,000	63,100	67.0	4,230
Arenac	10,300	10,100	73.5	740	9,200	8,400	74.0	620
Bay	19,200	18,900	76.0	1,440	17,000	16,000	77.0	1,230
Huron	67,600	65,500	87.5	5,720	59,000	41,800	87.5	3,660
Saginaw	32,400	31,500	74.5	2,350	27,800	26,700	75.5	2,020
Sanilac	68,000	67,700	77.5	5,250	52,000	48,800	74.0	3,610
Tuscola	39,500	38,300	75.5	2,900	36,000	30,300	74.5	2,260
<b>East Central</b>	237,000	232,000	79.5	18,400	201,000	172,000	78.0	13,400
Allegan	11,200	11,000	62.5	685	6,900	6,200	59.5	368
Berrien	5,900	5,700	60.5	344	5,100	4,800	62.5	300
Cass	5,300	5,100	36.0	183	4,500	3,200	60.5	193
Kalamazoo	6,100	5,800	54.5	317	4,800	4,700	66.0	310
Kent	7,700	7,400	60.5	447	6,700	6,000	64.0	384
Ottawa	8,300	7,700	59.5	458	5,300	4,700	57.5	270
Van Buren	5,500	1,900	45.5	86	1,700	1,600	53.0	85
<b>Southwest</b>	50,000	44,600	56.5	2,520	35,000	31,200	61.0	1,910

See footnote(s) at end of table.

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**Wheat: Acreage, yield, and production, by county, 2008-2009 <sup>1</sup> (continued)**

County and district	2008				2009			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Barry	10,300	10,000	54.5	545	8,400	8,200	63.5	521
Branch	8,300	8,100	53.5	434	7,000	6,500	61.5	400
Calhoun	11,000	10,900	56.5	614	9,400	9,200	64.5	594
Clinton	26,700	26,500	70.0	1,860	23,000	22,000	68.0	1,500
Eaton	21,200	20,800	55.5	1,150	19,400	18,900	63.5	1,200
Hillsdale	16,200	16,000	64.0	1,020	15,700	15,100	65.5	989
Ingham	20,700	20,600	65.5	1,350	18,800	18,500	66.5	1,230
Ionia	14,700	14,600	64.0	938	13,900	13,000	66.5	865
Jackson	11,000	10,800	59.0	639	8,500	7,900	57.5	454
St Joseph	6,400	5,600	57.0	320	4,100	2,900	64.5	187
Shiawassee	30,500	30,100	64.0	1,930	28,800	26,800	58.5	1,570
<b>South Central</b>	177,000	174,000	62.0	10,800	157,000	149,000	64.0	9,510
Genesee	11,600	11,400	57.5	653	8,300	7,800	49.5	386
Lapeer	15,200	14,900	69.0	1,030	9,500	9,100	61.0	555
Lenawee	40,100	40,000	75.5	3,010	39,200	37,100	79.5	2,950
Livingston	9,100	9,000	56.0	504	7,000	6,700	55.5	372
Macomb	6,300	6,200	65.5	406	4,500	3,700	52.5	194
Monroe	27,600	27,500	70.0	1,920	27,000	26,600	74.5	1,980
Oakland	1,400	1,400	61.5	86				
St Clair	19,600	19,500	72.5	1,410	14,800	14,300	58.0	831
Washtenaw	16,600	16,600	61.0	1,010	15,200	14,400	67.5	972
Wayne	500	500	42.0	21				
Other counties					1,500	1,300	54.0	70
<b>Southeast</b>	148,000	147,000	68.5	10,050	127,000	121,000	68.5	8,310
<b>Michigan</b>	730,000	710,000	69.0	48,990	620,000	560,000	69.0	38,640

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

**Cropland and Pasture Cash Rents 2008-2009 <sup>1</sup>**

County and district	2008			2009		
	Non-irrigated	Irrigated	Pasture	Non-irrigated	Irrigated	Pasture
	<i>Dollars per acre</i>					
Chippewa	17.50			12.50		
Delta	20.00			21.00		16.00
Menominee	24.00			17.50		16.00
Ontonagon				17.00		
Other counties	19.50			17.50		16.00
Upper Peninsula	20.00			17.00		16.00
Antrim				19.50		27.00
Charlevoix				20.00		
Emmet				22.50		16.00
Grand Traverse				29.00		
Leelanau				30.50		
Missaukee	37.00			45.00		28.00
Wexford				27.00		
Other counties	29.50			23.00		24.00
Northwest	31.00			31.00		24.00
Alcona				29.50		
Alpena	24.50			24.50		23.00
Cheboygan				30.00		
Iosco				25.00		
Ogemaw	28.50			32.00		22.00
Otsego				20.50		
Presque Isle	30.00			30.50		
Other counties	20.00			20.50		23.50
Northeast	24.00			27.00		23.50
Mason				40.00		
Muskegon	69.50					
Newaygo	50.00			51.00	90.00	35.00
Oceana	57.00			62.00	171.00	
Other counties	33.00			56.50	87.50	25.00
West Central	52.00			52.00	99.00	26.50
Clare	43.00			33.00		44.00
Gladwin	45.00			41.50		25.00
Gratiot	99.50			116.00	158.00	33.50
Isabella	62.00			48.50		54.00
Mecosta	37.50			29.50		38.00
Midland	85.50			81.00		36.00
Montcalm	57.50			56.00		37.00
Osceola	35.00			28.00		26.00
Other counties			32.00		134.00	
Central	67.50		32.00	75.00	137.00	34.00
Arenac	67.50			58.50		
Bay	102.00			98.50		
Huron	122.00			124.00		
Saginaw	101.00			97.50		
Sanilac	66.00			72.00		41.00
Tuscola	106.00			124.00		
Other counties						44.00
East Central	97.50			101.00		43.00

**Cropland and Pasture Cash Rents 2008-2009 <sup>1</sup>**

County and district	2008			2009		
	Non-irrigated	Irrigated	Pasture	Non-irrigated	Irrigated	Pasture
	<i>Dollars per acre</i>					
Allegan	84.00			105.00	199.00	39.00
Berrien	75.50			66.00	114.00	
Cass	70.00			81.50	219.00	
Kalamazoo	77.50			76.00	184.00	58.00
Kent	73.50			82.50	177.00	51.00
Ottawa	79.50			65.00	169.00	45.00
Van Buren	77.50			73.00	105.00	
Other counties		117.00	46.00			43.50
Southwest	77.50	117.00	46.00	82.00	187.00	48.50
Barry	76.50			76.00		39.50
Branch	75.00			74.00	158.00	
Calhoun	63.00			72.00	114.00	42.50
Clinton	93.50			101.00		
Eaton	78.50			84.50		43.00
Hillsdale	77.00			91.50	116.00	48.00
Ingham	69.50			68.50		
Ionia	88.00			85.50		42.00
Jackson	58.50			55.00		61.00
St Joseph	86.50	196.00		77.00	179.00	40.00
Shiawassee	68.50			63.00		48.00
Other counties		142.00	45.00		77.50	50.00
South Central	77.00	147.00	45.00	77.50	164.00	47.50
Genesee	55.50			56.00		
Lapeer	51.50			52.50		41.00
Lenawee	105.00			108.00		
Livingston	47.50			52.00		50.00
Macomb	48.50			51.00		
Monroe	95.00			94.50		
St Clair	55.00			54.00		
Washtenaw	63.50			68.00		
Other counties	69.50		42.00	67.00		41.50
Southeast	75.00		42.00	66.50		43.50
Other Districts		110.00	26.00		119.00	
Michigan	75.00	120.00	37.00	76.00	150.00	34.00

<sup>1</sup> Not published separately because of insufficient data or to avoid disclosure of individual operations.

**Cattle: January 1, by county, 2009-2010 <sup>1</sup>**

County and district	All cattle and calves		Milk cows		County and district	All cattle and calves		Milk cows	
	2009	2010	2009	2010		2009	2010	2009	2010
	<i>Head</i>	<i>Head</i>	<i>Head</i>	<i>Head</i>		<i>Head</i>	<i>Head</i>	<i>Head</i>	<i>Head</i>
Alger	1,700	1,600	500		Arenac	7,000	8,000	2,900	2,900
Baraga	1,100	1,000			Bay	4,500	5,000	1,600	1,900
Chippewa	8,700	8,300	1,100	900	Huron	105,000	109,000	31,200	31,400
Delta	8,100	7,700	1,700	1,600	Saginaw	9,000	9,000	2,300	2,400
Dickinson	2,600	2,600	600	600	Sanilac	50,500	50,000	21,600	21,900
Houghton	1,100	1,100			Tuscola	19,000	19,000	4,900	5,500
Iron	1,600	1,200			<b>East Central</b>	195,000	200,000	64,500	66,000
Mackinac	2,400	2,100	900	800	Allegan	50,800	51,500	22,600	19,500
Marquette	2,000	2,200	700		Berrien	4,900	6,000	1,500	1,500
Menominee	17,000	16,800	6,900	7,300	Cass	6,000	5,500	500	600
Ontonagon	2,500	2,100			Kalamazoo	12,000	15,000		
Schoolcraft	1,200	1,100			Kent	29,000	30,000	7,700	9,100
Other counties	1,000	1,200	600	1,300	Ottawa	42,500	47,000	12,400	12,400
<b>Upper Peninsula</b>	51,000	49,000	13,000	12,500	Van Buren	9,800	10,000		
Antrim	4,100	3,600	500	600	Other counties			10,300	10,900
Benzie	1,400	1,600			<b>Southwest</b>	155,000	165,000	55,000	54,000
Charlevoix	3,600	3,700	600	600	Barry	27,000	27,000	11,700	13,900
Emmet	5,000	4,400	600	600	Branch	12,000	12,000	3,600	3,800
Grand Traverse	4,100	3,700			Calhoun	14,000	13,000	4,300	4,000
Kalkaska	1,100	800			Clinton	46,000	51,000	23,500	22,900
Leelanau	3,000	2,700			Eaton	9,500	9,000		
Manistee	2,500	2,300			Hillsdale	25,000	24,500	11,400	10,000
Missaukee	27,500	29,500	13,300	13,800	Ingham	18,500	17,000	6,000	5,500
Wexford	4,700	4,700	700	700	Ionia	45,000	47,500	16,000	15,800
Other counties			800	700	Jackson	19,000	18,000	3,900	4,000
<b>Northwest</b>	57,000	57,000	16,500	17,000	St Joseph	10,000	12,000		
Alcona	6,000	5,800	1,500	1,300	Shiawassee	16,000	16,000	2,900	5,100
Alpena	8,900	8,200	3,300	3,300	Other counties			6,700	7,000
Cheboygan	6,100	5,500	1,000	800	<b>South Central</b>	242,000	247,000	90,000	92,000
Iosco	9,200	7,600	2,100	1,700	Genesee	7,500	6,500	1,500	1,300
Montmorency	3,400	3,400	600	700	Lapeer	17,000	17,000	3,600	3,500
Ogemaw	15,000	15,100	5,800	6,200	Lenawee	32,000	32,000	10,900	11,100
Oscoda	3,400	3,200		800	Livingston	9,000	8,300	2,900	2,200
Otsego	2,200				Macomb	3,500	3,800	700	600
Presque Isle	6,200	5,700	1,400	1,200	Monroe	4,000	4,500		
Other counties	600	2,500	800		Oakland	1,500			
<b>Northeast</b>	61,000	57,000	16,500	16,000	St Clair	11,000	10,000	1,300	1,300
Lake	2,000	1,000			Washtenaw	12,000	11,000	2,900	2,800
Mason	8,200	9,500	2,300	2,300	Wayne	500			
Muskegon	20,000	25,000			Other counties		1,900	700	700
Newaygo	23,000	22,000	13,400	12,300	<b>Southeast</b>	98,000	95,000	24,500	23,500
Oceana	7,800	7,500	3,100	2,300	<b>Michigan</b>	1,070,000	1,100,000	353,000	354,000
Other counties			6,200	6,600					
<b>West Central</b>	61,000	65,000	25,000	23,500					
Clare	11,000	12,000	2,500						
Gladwin	7,000	7,000		1,200					
Gratiot	35,500	41,000	12,900	14,600					
Isabella	30,000	36,000	7,500	7,800					
Mecosta	13,500	12,500	4,500	4,500					
Midland	6,000	5,500							
Montcalm	26,000	28,000	9,400	9,500					
Osceola	21,000	23,000	5,900	5,400					
Other counties			5,300	6,500					
<b>Central</b>	150,000	165,000	48,000	49,500					

<sup>1</sup> Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

## Useful Agriculture Internet Sites

### State and Federal Agencies

AMS-Agricultural Marketing Service, Market News	<a href="http://www.ams.usda.gov/AMSV1.0/marketnews">www.ams.usda.gov/AMSV1.0/marketnews</a>
APHIS-Animal and Plant Health Inspection Service	<a href="http://www.aphis.usda.gov">www.aphis.usda.gov</a>
ERS-Economic Research Service	<a href="http://www.ers.usda.gov">www.ers.usda.gov</a>
FSA-Farm Service Agency	<a href="http://www.fsa.usda.gov">www.fsa.usda.gov</a>
MDA-Michigan Department of Agriculture	<a href="http://www.michigan.gov/mda">www.michigan.gov/mda</a>
MSU Extension	<a href="http://www.msue.msu.edu">www.msue.msu.edu</a>
Michigan Agricultural Experiment Station	<a href="http://www.maes.msu.edu">www.maes.msu.edu</a>
MSU College of Agriculture & Natural Resources	<a href="http://www.canr.msu.edu">www.canr.msu.edu</a>
NASS-National Agricultural Statistics Service	<a href="http://www.nass.usda.gov">www.nass.usda.gov</a>
NRCS-Natural Resources Conservation Service	<a href="http://www.nrcs.usda.gov">www.nrcs.usda.gov</a>
RD-Rural Development	<a href="http://www.rurdev.usda.gov">www.rurdev.usda.gov</a>
USDA-United States Department of Agriculture	<a href="http://www.usda.gov">www.usda.gov</a>
USDA, NASS, Michigan Field Office	<a href="http://www.nass.usda.gov">www.nass.usda.gov</a>

### Commodity Groups

Apples-Michigan Apple Committee	<a href="http://www.michiganapples.com">www.michiganapples.com</a>
Asparagus-Michigan Asparagus Advisory Board	<a href="http://www.asparagus.com">www.asparagus.com</a>
Bison-Michigan Bison Association	<a href="http://www.michiganbison.com">www.michiganbison.com</a>
Blueberries-Michigan Blueberry Growers (MBG) Marketing	<a href="http://www.blueberries.com">www.blueberries.com</a>
Cattle-Michigan Beef Industry Commission	<a href="http://www.mibeef.org">www.mibeef.org</a>
Celery-Michigan Celery Promotion Cooperative, Inc.	<a href="http://www.michigancelery.com">www.michigancelery.com</a>
Cherries-Cherry Industry Administrative Board (CIAB)	<a href="http://www.cherryboard.org">www.cherryboard.org</a>
Cherries-Cherry Marketing Institute	<a href="http://www.choosecherries.com">www.choosecherries.com</a>
Christmas Trees-Michigan Christmas Tree Association	<a href="http://www.mcta.org">www.mcta.org</a>
Corn-Michigan Corn Growers Association	<a href="http://www.micorn.org">www.micorn.org</a>
Dairy-Michigan Milk Producers Association	<a href="http://www.mimilk.com">www.mimilk.com</a>
Dairy-United Dairy Industry of MI	<a href="http://www.udim.org">www.udim.org</a>
Dry Beans-Michigan Bean Commission	<a href="http://www.michiganbean.org">www.michiganbean.org</a>
Dry Beans-Michigan Agri-Business Association (MABA)	<a href="http://www.miagbiz.org">www.miagbiz.org</a>
Equine-Michigan Equine Partnership	<a href="http://www.miequine.com">www.miequine.com</a>
Floriculture-Michigan Floral Association	<a href="http://www.michiganfloral.org">www.michiganfloral.org</a>
Floriculture-Michigan Floriculture Growers Council	<a href="http://www.mifgc.org">www.mifgc.org</a>
Grapes-Michigan Grape and Wine Industry Council	<a href="http://www.michiganwines.com">www.michiganwines.com</a>
Horses-Michigan Horse Council	<a href="http://www.michiganhorsecouncil.com">www.michiganhorsecouncil.com</a>
Nursery-Michigan Nursery & Landscape Association (MNLA)	<a href="http://www.mnla.org">www.mnla.org</a>
Peaches-Michigan Peach Sponsors	<a href="http://www.michiganpeach.org">www.michiganpeach.org</a>
Pork-National Pork Producers Council (NPPC)	<a href="http://www.nppc.org">www.nppc.org</a>
Potatoes-Michigan Potato Industry Commission	<a href="http://www.mipotato.com">www.mipotato.com</a>
Soybeans-Michigan Soybean Promotion Committee (MSPC)	<a href="http://www.michigansoybean.org">www.michigansoybean.org</a>
Turfgrass-Michigan Turfgrass Foundation (MTF)	<a href="http://www.michiganturfgrass.org">www.michiganturfgrass.org</a>
Turkeys-Michigan Turkey Producers Co-op, Inc.	<a href="http://www.miturkey.com">www.miturkey.com</a>

### Other Related Sites

American Farm Bureau Federation	<a href="http://www.fb.org">www.fb.org</a>
GreenStone Farm Credit Services	<a href="http://www.greenstonefcs.com">www.greenstonefcs.com</a>
Michigan Farm Bureau	<a href="http://www.michiganfarmbureau.com">www.michiganfarmbureau.com</a>
Michigan Farm Market & Agricultural Tourism (MIFMAT)	<a href="http://www.michiganfarmfun.com">www.michiganfarmfun.com</a>
Michigan Farmers Markets	<a href="http://www.farmersmarkets.msu.edu">www.farmersmarkets.msu.edu</a>
Michigan Food and Farming Systems (MIFFS)	<a href="http://www.miffs.org">www.miffs.org</a>
Michigan Market Maker	<a href="http://www.mimarketmaker.msu.edu">www.mimarketmaker.msu.edu</a> or <a href="http://mi.marktemaker.uiuc.edu">http://mi.marktemaker.uiuc.edu</a>
MSU Agriculture Weather Office	<a href="http://www.agweather.geo.msu.edu">www.agweather.geo.msu.edu</a>

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## INTERNET ACCESS

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:

### USDA, NASS, Michigan Field Office

From the NASS home page, [www.nass.usda.gov](http://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, News releases, *Agriculture Across Michigan*, and county estimates.

### National Agricultural Statistics Service (NASS)

NASS home page at: [www.nass.usda.gov](http://www.nass.usda.gov)

You can access national releases, 2007 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](mailto:nass@nass.usda.gov).

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