Michigan Agricultural Statistics 2007-2008

USDA, NASS
Michigan
Field Office

Michigan
Department of
Agriculture

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September 2008

Michigan's deep agricultural roots and long time farming tradition have provided a tremendous foundation for agri-business growth in this state. It's what is helping shape the new Michigan economy and demonstrate that we are a state ripe for agri-economic success. The Michigan Department of Agriculture (MDA) is thrilled to be a part if this exciting time in agriculture.

Agriculture is Michigan's second largest industry generating $63.7 billion for the state economy and employs approximately one million residents, affording the state the opportunity to take on the challenge of a new, diverse business environment. Additionally, our unique landscape produces more than 200 commercial commodities, making the state second only to California in terms of crop diversity.

Michigan agriculture continues to be a growth segment of the state's economy. In 2007, for example, we reached a new record in the state's annual agricultural exports – inching out Kentucky for the 19th spot among the top 20 state agriculture exporters in the nation. Michigan exports almost one-third of its 200 agricultural commodities. Our annual agricultural exports generated more than $1 billion and supported 12,800 jobs last year alone.

While expanding agriculture's presence, MDA continues its goal to protect Michigan consumers by ensuring a secure and wholesome food supply; promoting the state's agricultural products and tourism; and preserving our 10 million acres of farmland to our farming future.

It is a dynamic time to be part of Michigan agriculture and our staff takes great pride in the role they play to secure a fair marketplace for Michigan citizens.

For more information, questions or comments, please contact MDA at 800-282-3939 or MDA-INFO@michigan.gov.

Sincerely,

Don Koivisto
Director

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

September 2008

We are pleased to make this publication available to Michigan's agricultural industry. In 2008, a partnership was established with Michigan State University (MSU), the Michigan Department of Agriculture (MDA) and the U.S. Department of Agriculture (USDA), National Agricultural Statistics Service (NASS) to ensure that Michigan's agricultural specialty commodities receive data critical to remaining competitive and profitable. One valuable outcome from this partnership is the continuation of this bulletin. State funding cuts in 2007 would have eliminated this publication, the only up-to-date, comprehensive agricultural data source dating back to 1886. In addition to MSU and MDA, we wish to thank the Michigan Farm Bureau and other agricultural organizations for their assistance in establishing this partnership. Finally, we thank Michigan's farm operators for their strong commitment to reporting, which enables us to show that "Agriculture Counts" in Michigan.

In 2007, Michigan continued to provide a strong economic foundation, generating a record high $5.7 billion in cash receipts. Despite a 26 percent increase in production expenses, net farm income hit a new record high of $1.53 billion. Positive outcomes were seen in the following sectors: milk, poultry and eggs, fruit, and meat animals. Vegetables and miscellaneous livestock segments were generally flat, while floriculture and nursery experienced a sizeable downturn due to a softening economy. More detailed information can be found in this publication which can be accessed at www.nass.usda.gov under "Statistics by State."

We look forward to releasing the 2007 Census of Agriculture information on February 4, 2009. This information will be used to update the $63.7 billion contribution agriculture makes to the state's economy. County profiles of Michigan agriculture, watershed information, maps of minority and underserved growers, and several other products will be developed from this valuable, rich data source. This is the only comprehensive agricultural data source for each Michigan county. Census information will be available at the above mentioned website.

Thank you for the opportunity to serve agriculture with timely, accurate, and unbiased information. We greatly appreciate your support. Please let us know your comments and suggestions.

Sincerely,

David D. Kleweno
Director

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Rank in U.S. agriculture by selected commodities, 2007

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			Thousands	*Percent*	
1	Beans, dry, black	Cwt	1,540	55.5	Michigan
	Beans, dry, cranberry	Cwt	88	71.0	Michigan
	Beans, dry, small red	Cwt	253	47.3	Michigan
	Blueberries	Pounds	93,000	32.8	Michigan
	Cherries, tart	Pounds	196,000	77.4	Michigan
	Cucumbers (for pickles)	Tons	156.4	30.8	Michigan
	Flowering hanging baskets	Number	6,070	20.7	Michigan
	Geraniums (seed and cuttings)	Pots	22,591	36.1	Michigan
	Grapes, Niagara	Tons	33.5	40.1	Michigan
	Impatiens	Flats	2,156	24.1	Michigan
	Petunias	Flats	1,515	22.1	Michigan
	Squash	Cwt	1,482	18.8	Michigan
	Vegetable type bedding plants	Flats	829	21.0	Michigan
2	Beans, dry, all	Cwt	3,120	12.3	North Dakota
	Carrots (fresh market)	Cwt	840	3.1	California
	Celery	Cwt	927	4.6	California
	Hostas	Pots	1,696	17.1	South Carolina
	Marigolds	Flats	772	20.6	California
	Plums	Tons	3.1	1.3	California
3	Apples	Pounds	770,000	8.4	Washington
	Asparagus	Cwt	235	21.1	California
	Beans, dry, navy	Cwt	990	26.0	North Dakota
	Beans, snap (processing)	Tons	78.6	10.2	Wisconsin
	Other herbaceous perennials	Pots	14,798	10.5	California
4	Beans, dry, light red kidney	Cwt	99	12.3	Nebraska
	Carrots (processing)	Tons	28.0	8.1	Washington
	Cherries, sweet	Tons	27.3	8.8	Washington
	Cucumbers (fresh market)	Cwt	858	9.2	Florida
	Grapes, all	Tons	100.1	1.4	California
	Grapes, Concord	Tons	61.0	12.3	Washington
	Sugarbeets	Tons	3,487	10.9	Minnesota
5	Beans, dry, dark red kidney	Cwt	18	2.7	Minnesota
6	Maple syrup	Gallons	60	4.8	Vermont
	Pumpkins	Cwt	575	5.2	Illinois
7	Milk	Pounds	7,598,000	4.1	California
9	Potatoes	Cwt	14,700	3.3	Idaho
12	Corn for grain	Bushels	291,400	2.2	Iowa
	Soybeans	Bushels	67,860	2.6	Iowa
14	Hogs, as of Dec. 1, 2007	Head	1,030	1.5	Iowa
	Wheat, winter	Bushels	35,100	2.3	Kansas
19	Cash receipts	Dollars	5,741,504	2.0	California
21	Hay, all	Tons	2,880	1.9	Texas
30	Cattle, as of Jan. 1, 2008	Head	1,060	1.1	Texas

Number of farms and land in farms by economic sales class, 2003-2007 [1]

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+		
	1,000 farms	*1,000 farms*	*1,000 farms*	*1,000 farms*	*1,000 farms*	*1,000 farms*	
2003	31.7	15.1	3.2	1.8	1.5	53.3	
2004	31.4	15.0	3.1	1.9	1.8	53.2	
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	30.4	14.9	3.3	2.0	2.2	52.8	
	Million acres	*Million acres*	*Million acres*	*Million acres*	*Million acres*	*Million acres*	*Acres*
2003	2.00	2.60	1.65	1.59	2.25	10.09	189
2004	1.90	2.60	1.60	1.60	2.40	10.10	190
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	1.75	2.30	1.65	1.55	2.75	10.00	189

[1] 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, 2004-2008

Year	Farm real estate average value per acre	Cropland		Pasture
		Average value per acre	Average cash rent per acre	Average value per acre
	Dollars	*Dollars*	*Dollars*	*Dollars*
2004	2,920	2,550	62	1,800
2005	3,150	2,750	62	1,950
2006	3,500	3,000	65	2,150
2007	3,950	3,450	73	2,570
2008	4,150	3,700	80	2,800

Farm Income

Net farm income in 2007 rose 17 percent from last year to a record high $1.53 billion. That includes $140 million of government payments. The total agriculture output was $6.65 billion dollars, up 22 percent from 2006. Production expenses were $3.26 billion in 2007, up 26 percent from the previous year.

Preliminary cash receipts from 2007 marketings of Michigan crops, livestock and livestock products totaled $5.74 billion, up 25 percent from 2006. Michigan ranked 19 nationally in total cash receipts.

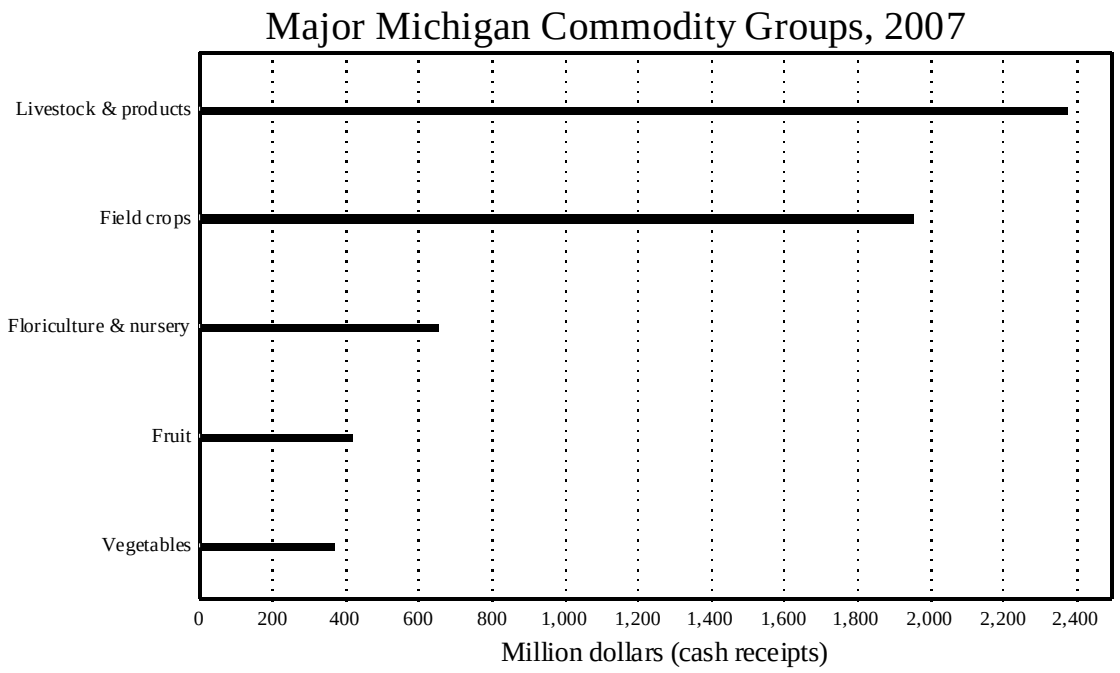
Crop receipts, at $3.37 billion, were up 15 percent from 2006. Increases were noted in the market value of field crops and fruit crops. Livestock cash receipts were up 43 percent from a year earlier to $2.37 billion.

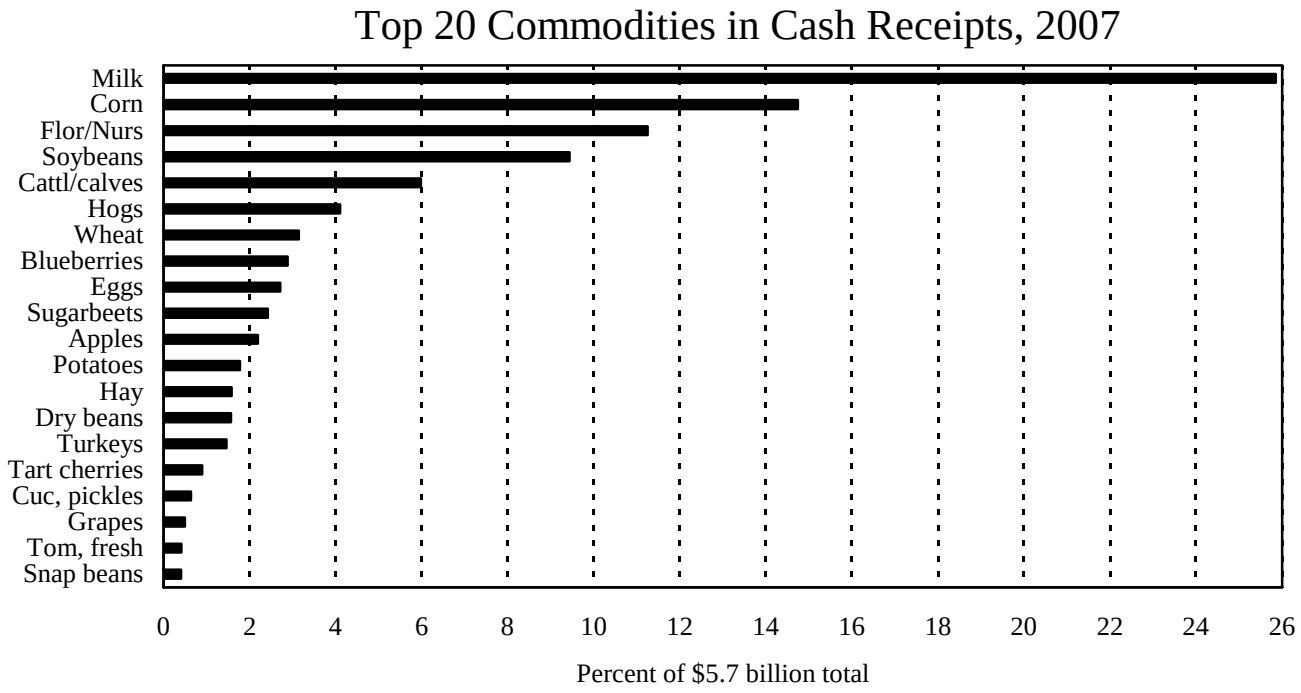
In 2007, the top ten Michigan commodities ranked by cash receipts were milk, corn floriculture and nursery, soybeans, cattle and calves, hogs, wheat, blueberries, eggs, and sugarbeets.

Government payments, 2003-2007 [1]

Program	2003	2004	2005	2006	2007
	1,000 dollars	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
Conservation programs	32,084	32,595	41,846	51,279	45,926
Production flexibility contract payments	-5,402	-104	-2	NA	NA
Direct payments	122,094	89,513	89,782	85,952	86,971
Counter-cyclical payments	6,150	5,805	70,996	72,304	179
Loan deficiency payments	897	56,370	129,548	15,570	64
Miscellaneous programs	118	2,001	7,100	1,891	-63
Ad Hoc and emergency programs	61,660	20,729	47,859	1,829	3,300
Milk income loss payments	37,992	8,404	542	18,816	3,868
Total	255,593	215,313	387,671	247,641	140,245

[1] Source: U.S. Department of Agriculture, Economic Research Service.


Major Michigan Commodity Groups, 2007
Livestock & products
Field crops
Floriculture & nursery
Fruit
Vegetables
0
200
400
600
800
1,000
1,200
1,400
1,600
1,800
2,000
2,200
2,400
Million dollars (cash receipts)


Top 20 Commodities in Cash Receipts, 2007
Milk
Corn
Flor/Nurs
Soybeans
Cattl/calves
Hogs
Wheat
Blueberries
Eggs
Sugarbeets
Apples
Potatoes
Hay
Dry beans
Turkeys
Tart cherries
Cuc, pickles
Grapes
Tom, fresh
Snap beans
0
2
4
6
8
10
12
14
16
18
20
22
24
26
Percent of $5.7 billion total

Value added to the economy by the Michigan agricultural sector 2003-2007 [1]

Item [2]	2003	2004	2005	2006	2007
	Million dollars	*Million dollars*	*Million dollars*	*Million dollars*	*Million dollars*
Value of crop production	2,410.3	2,680.0	2,482.0	2,944.7	3,319.4
Food grains	139.0	118.5	117.0	148.6	180.9
Feed crops	500.6	507.3	469.9	676.4	942.0
Oil crops	421.0	377.5	433.1	465.9	542.6
Fruits and tree nuts	250.9	292.8	277.0	343.8	414.3
Vegetables, potatoes, dry beans	420.2	437.9	399.4	437.5	450.2
All other crops	754.7	787.6	803.2	859.0	844.4
Home consumption	3.9	1.8	2.6	1.3	0.9
Value of inventory adjustment [3]	-80.0	156.7	-20.3	12.3	-56.0
Value of livestock production	1,452.7	1,750.0	1,773.6	1,706.8	2,391.9
Meat animals	385.1	522.5	511.5	502.2	582.2
Dairy products	795.7	1,022.8	1,031.0	938.3	1,484.4
Poultry and eggs	170.3	174.5	136.3	164.6	250.2
Miscellaneous livestock	50.8	49.4	49.0	50.5	50.2
Home consumption	6.3	11.4	8.9	9.8	11.3
Value of inventory adjustment [3]	44.7	-30.6	36.8	41.4	13.6
Revenues from services and forestry	692.8	762.2	832.4	819.9	938.3
Machine hire and custom work	29.9	29.7	50.8	29.8	27.3
Forest products sold	11.9	11.9	11.9	11.9	11.9
Other farm income	172.3	210.5	216.7	165.0	196.5
Gross imputed rental value-farm dwellings	478.6	510.2	553.0	613.2	702.6
Value of agricultural sector production	4,555.8	5,192.2	5,088.0	5,471.4	6,649.6
less: Purchased inputs	2,438.0	2,482.2	2,516.5	2,578.2	3,258.8
Farm origin	780.5	771.8	783.8	854.1	1,096.8
Feed purchased	410.7	426.9	407.5	487.6	656.5
Livestock and poultry purchased	40.5	53.2	65.9	70.1	73.4
Seed purchased	329.3	291.7	310.5	296.4	366.9
Manufactured inputs	705.5	743.5	780.1	805.6	1,011.1
Fertilizers and lime	254.4	291.5	313.8	309.8	448.6
Pesticides	236.9	217.6	198.2	203.1	222.4
Petroleum fuel and oils	159.9	167.6	210.9	233.8	271.9
Electricity	54.3	66.9	57.2	59.0	68.2
Other purchased inputs	952.0	967.0	952.5	918.6	1,150.9
Repair and maintenance of capital items	278.5	280.0	258.9	279.2	305.2
Machine hire and custom work	39.9	55.7	74.8	63.5	86.9
Marketing, storage, and transp. expenses	86.7	129.7	171.3	107.2	160.7
Contract labor	32.5	31.3	16.3	21.8	38.9
Miscellaneous expenses	514.4	470.3	431.2	446.9	559.1
plus: Net government transactions	21.8	11.3	170.0	2.5	-91.8
plus: Direct Government payments	255.6	215.3	387.7	247.6	140.2
less: Motor vehicle reg. and licensing fees	7.3	7.9	8.5	9.9	9.8
less: Property taxes	226.6	196.1	209.2	235.3	222.2
Gross value added	2,139.6	2,721.3	2,741.6	2,895.7	3,299.0
less: Capital consumption	632.3	674.7	718.5	752.2	777.4
Net value added	1,507.3	2,046.6	2,023.1	2,143.4	2,521.6
less: Payments to stakeholders	695.6	742.5	778.6	844.0	995.1
Employee compensation (total hired labor)	475.4	553.2	480.2	493.1	647.7
Net rent received by nonoperator landlords	14.3	-14.9	65.4	85.6	63.8
Real estate and nonreal estate interest	206.0	204.2	233.1	265.2	283.6
Net farm income	811.7	1,304.1	1,244.5	1,299.5	1,526.4

[1] Source: U.S. Department of Agriculture, Economic Research Service.

[2] 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.

[3] 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 2003-2007 [1]

Item	2003	2004	2005	2006	2007
	1,000 dollars	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
Total cash receipts	3,888,186	4,290,766	4,227,591	4,586,690	5,741,504
Total livestock and products	1,401,811	1,769,215	1,727,877	1,655,542	2,366,949
Meat animals	385,053	522,510	511,508	502,152	582,153
Cattle and calves	207,722	282,708	277,781	294,627	343,331
Hogs	173,671	236,002	229,852	204,514	235,516
Sheep and lambs	3,660	3,800	3,875	3,011	3,306
Dairy (milk)	795,690	1,022,825	1,031,030	938,315	1,484,395
Poultry and eggs	170,298	174,472	136,327	164,580	250,189
Eggs	93,613	94,313	61,870	73,097	155,469
Turkeys	68,760	69,560	67,500	82,156	83,904
Other	7,925	10,599	6,957	9,327	10,816
Miscellaneous livestock	50,770	49,408	49,012	50,495	50,212
Honey	6,782	4,965	4,243	4,633	5,253
Mink pelts	1,744	2,045	2,379	3,380	2,565
Trout	691	790	793	783	758
Other	41,553	41,608	41,597	41,699	41,636
Total crops	2,486,375	2,521,551	2,499,714	2,931,148	3,374,555
Field crops	1,278,493	1,186,181	1,242,800	1,549,624	1,949,779
Corn	437,210	445,751	371,784	579,356	846,530
Dry beans	63,264	60,779	75,499	74,675	89,702
Hay	58,269	57,800	93,415	92,991	90,711
Soybeans	420,346	376,716	432,343	464,956	541,591
Sugarbeets	124,780	90,790	111,387	142,384	138,957
Wheat	138,470	117,925	116,029	147,556	180,208
Other	36,154	36,420	42,343	47,706	62,080
Vegetables	356,908	377,137	323,881	362,845	360,527
Asparagus	19,278	17,468	12,006	14,866	15,417
Beans, snap	11,208	18,660	23,135	17,723	23,192
Carrots	21,907	17,899	18,666	17,293	15,400
Celery	17,641	15,215	10,493	19,920	12,271
Corn, sweet	14,193	13,904	16,000	16,434	14,315
Cucumbers, fresh	20,890	22,274	14,976	16,354	15,358
Cucumbers, pickles	36,180	35,363	26,611	33,492	35,961
Onions	11,065	10,518	8,128	8,815	11,933
Peppers, green, fresh	9,900	13,572	9,016	9,126	10,296
Potatoes	87,400	93,739	87,590	98,969	101,481
Pumpkins	14,308	13,104	9,048	9,405	6,900
Squash	15,314	16,240	16,337	14,994	14,079
Tomatoes, fresh	16,456	26,208	16,720	23,000	23,667
Tomatoes, processing	10,408	8,789		10,049	10,098
Other	50,760	54,184	55,155	52,405	50,159
Fruit	250,887	292,751	277,014	343,834	414,307
Apples	79,303	96,272	90,298	109,834	125,806
Blueberries	63,105	97,210	83,500	149,655	165,456
Grapes	21,086	13,690	21,518	9,357	27,950
Peaches	7,790	10,274	7,982	13,066	16,298
Strawberries	6,320	4,005	4,878	6,285	4,668
Sweet cherries	10,795	16,311	16,732	15,492	17,709
Tart cherries	57,938	49,861	47,555	34,697	50,905
Other	4,550	5,128	4,551	5,448	5,515
Miscellaneous crops	19,897	17,327	7,117	4,325	3,985
Floriculture and nursery	580,190	648,155	648,902	670,520	645,957

[1] Source: U.S. Department of Agriculture, Economic Research Service.
[2] Not published to avoid disclosure of individual operations.

Corn production costs and returns, excluding direct Government payments, 2005-2006

Item	United States		Northern Crescent [1]	
	2005	2006	2005	2006
	Dollars per planted acre	*Dollars per planted acre*	*Dollars per planted acre*	*Dollars per planted acre*
Gross value of production	260.43	445.71	261.88	345.61
Operating costs				
Seed	40.47	43.55	41.23	43.83
Fertilizer	69.35	80.17	78.36	89.27
Chemicals [2]	22.84	23.62	19.95	20.77
Custom operations	9.97	10.58	12.46	13.03
Fuel, lube, and electricity	26.50	28.73	25.29	27.98
Repairs	14.00	14.45	14.10	14.60
Purchased irrigation water	0.12	0.12	0.02	0.02
Interest on operating capital	3.12	4.76	3.25	4.95
Total, operating costs	186.37	205.98	194.66	214.45
Allocated overhead				
Hired labor	2.08	2.19	3.03	3.14
Opportunity cost of unpaid labor	22.02	23.56	31.78	32.94
Capital recovery of machinery and equipment	64.02	66.71	60.53	63.68
Opportunity cost of land (rental rate)	93.27	90.84	77.15	75.90
Taxes and insurance	6.51	7.01	9.00	9.47
General farm overhead	12.61	13.45	17.67	18.30
Total, allocated overhead	200.51	203.76	199.16	203.43
Total, costs listed	386.88	409.74	393.82	417.88
Value of production less total costs listed	-126.45	35.97	-131.94	-72.27
Value of production less operating costs	74.06	239.73	67.22	131.16
Supporting information				
Yield (bushels per planted acre)	149	138	147	106
Price (dollars per bushel at harvest)	1.74	3.22	1.76	3.23
Enterprise size (planted acres) [3]	250	250	128	128
Production practices [3]				
Irrigated (percent)	12	12	5	5
Dryland (percent)	88	88	95	95

[1] Includes NE Minnesota, Wisconsin, Michigan, NE Ohio, Pennsylvania, New York, and New England.
[2] Includes soil conditioners and manure.
[3] Developed from survey base year, 2005.

Soybean production costs and returns, excluding direct Government payments, 2005-2006

Item	United States		Northern Crescent [1]	
	2005	2006	2005	2006
	Dollars per planted acre	*Dollars per planted acre*	*Dollars per planted acre*	*Dollars per planted acre*
Gross value of production	264.57	254.12	248.25	252.85
Operating costs				
Seed	32.62	34.06	31.69	31.15
Fertilizer	10.06	11.08	15.28	16.86
Soil conditioners	0.13	0.14	0.27	0.31
Manure	0.6	0.67	2.3	2.61
Chemicals	13.59	14.16	13.64	14.46
Custom operations	6.67	7.02	9.81	10.42
Fuel, lube, and electricity	13.62	15.75	15.1	17.55
Repairs	11.29	11.6	12.82	13.2
Purchased irrigation water	0.13	0.15	0	0
Interest on operating capital	1.5	2.23	1.7	2.51
Total, operating costs	90.21	96.86	102.61	109.07
Allocated overhead				
Hired labor	2.03	2.12	3.3	3.42
Opportunity cost of unpaid labor	16.77	16.81	22.25	22.74
Capital recovery of machinery and equipment	50.17	51.47	55.8	57.43
Opportunity cost of land (rental rate)	86.68	88.25	71.96	74.43
Taxes and insurance	6.06	6.57	7.75	8.32
General farm overhead	12.47	12.54	15.06	15.18
Total, allocated overhead	174.18	177.76	176.12	181.52
Total, costs listed	264.39	274.62	278.73	290.59
Value of production less total costs listed	0.18	-20.5	-30.48	-37.74
Value of production less operating costs	174.36	157.26	145.64	143.78
Supporting information				
Yield (bushels per planted acre)	47	46	43	46
Price (dollars per bushel at harvest)	5.68	5.54	5.72	5.48
Enterprise size (planted acres) [2]	268	268	135	135
Production practices [2]				
Irrigated (percent)	9	9	3	3
Dryland (percent)	91	91	97	97

[1] Includes NE Minnesota, Wisconsin, Michigan, NE Ohio, Pennsylvania, New York, and New England.
[2] Developed from survey base year, 2002.

Milk production costs and returns, 2005

Item	Indiana	Michigan	New York	Ohio	Pennsylvania	Wisconsin	United States
	Dollars per cwt sold	*Dollars per cwt sold*	*Dollars per cwt sold*	*Dollars per cwt sold*	*Dollars per cwt sold*	*Dollars per cwt sold*	*Dollars per cwt sold*
Gross value of production							
Milk sold	15.48	15.67	15.91	15.54	16.02	15.92	15.23
Cattle	1.36	1.56	1.11	1.41	1.17	1.28	1.30
Other income [1]	0.51	0.48	0.55	0.44	0.47	0.48	0.50
Total, gross value of production	17.35	17.71	17.57	17.39	17.66	17.68	17.03
Operating costs							
Feed							
Purchased feed	4.30	3.98	3.93	4.17	4.10	3.60	5.03
Homegrown harvested feed	2.90	3.67	4.83	3.32	4.97	4.32	3.02
Grazed feed	0.09	0.04	0.10	0.08	0.12	0.10	0.09
Total, feed costs	7.29	7.69	8.86	7.57	9.19	8.02	8.14
Other							
Veterinary and medicine	0.98	0.93	0.80	1.01	1.02	0.94	0.78
Bedding and litter	0.38	0.22	0.44	0.34	0.56	0.23	0.22
Marketing	0.22	0.21	0.23	0.26	0.30	0.20	0.26
Custom services	0.65	0.44	0.52	0.47	0.56	0.37	0.41
Fuel, lube, and electricity	0.61	0.62	0.75	0.56	0.75	0.56	0.55
Repairs	0.67	0.71	0.77	0.69	0.76	0.62	0.56
Interest on operating capital	0.18	0.18	0.21	0.18	0.22	0.18	0.18
Total, operating cost	10.98	11.00	12.58	11.08	13.36	11.12	11.10
Allocated overhead							
Hired labor	1.22	1.55	1.75	1.36	0.89	1.40	1.47
Opportunity cost of unpaid labor	2.92	1.98	3.63	3.43	4.22	3.30	2.30
Capital recovery of machinery and equipment [2]	3.20	3.12	3.60	3.68	3.19	2.97	2.83
Opportunity cost of land (rental rate)	0.05	0.03	0.02	0.06	0.05	0.03	0.03
Taxes and insurance	0.20	0.22	0.28	0.22	0.27	0.29	0.21
General farm overhead	0.50	0.80	0.74	0.66	0.63	0.69	0.52
Total, allocated overhead	8.09	7.70	10.02	9.41	9.25	8.68	7.36
Total costs listed	19.07	18.70	22.60	20.49	22.61	19.80	18.46
Value of production less total costs listed	-1.72	-0.99	-5.03	-3.10	-4.95	-2.12	-1.43
Value of production less operating costs	6.37	6.71	4.99	6.31	4.30	6.56	5.93
Supporting information							
Milk cows (head per farm)	130	145	119	97	85	92	155
Output per cow (pounds)	17,750	20,664	18,835	17,912	19,069	19,581	18,951

[1] Income from renting or leasing dairy stock to other operations; renting space to other dairy operations; co-op patronage dividends associated with the dairy; assessment rebates, refunds, and other dairy-related resources; and the fertilizer value of manure production.

[2] Machinery and equipment, and housing, manure handling, and feed storage structures, and dairy breeding herd.

Livestock and products: Marketing year average prices received by farmers, 2003-2007

Year	All hogs per cwt	All beef per cwt [1]	Cows per cwt [2]	Steers and heifers per cwt	Milk cows per head [3]	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt	Turkeys per pound [4]
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
2003	35.00	63.00	41.60	72.00	1,370	92.50	0.595	12.60	0.36
2004	45.90	68.70	50.40	76.60	1,640	109.00	0.562	16.30	0.37
2005	46.70	73.20	52.10	82.20	1,840	132.00	0.346	15.40	0.40
2006	42.00	71.90	49.10	81.60	1,930	134.00	0.366	13.30	0.47
2007	41.10	75.80	49.30	87.00	1,910	118.00	0.727	19.70	0.46

[1] Combined price for "Cows" and "Steers and Heifers."
[2] Beef cows and cull dairy cows sold for slaughter.
[3] Sold for dairy herd replacement only. Prices published January, April, July, and October.
[4] Data not available prior to 1999.

Livestock and products: Monthly prices received by farmers, 2007-2008

Month	Beef cattle per cwt [1]	Cows per cwt [2]	Steers and heifers per cwt	Milk cows per head [3]	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
2007							
January	69.40	44.50	80.00	1,800	114.00	0.770	15.00
February	71.80	48.00	82.00		114.00	0.630	15.30
March	76.00	49.00	87.50		114.00	0.640	16.00
April	78.70	50.00	91.00	1,800	120.00	0.540	16.90
May	80.70	52.00	93.00		125.00	0.590	18.20
June	78.30	51.00	90.00		125.00	0.480	20.40
July	75.50	51.00	86.00	1,950	122.00	0.800	22.50
August	77.20	52.00	88.00		120.00	0.710	22.80
September	76.90	51.00	88.00		120.00	0.960	22.70
October	75.60	49.00	87.00	2,100	118.00	0.800	22.20
November	73.30	46.00	85.00		116.00	1.170	22.30
December	75.00	47.00	87.00		112.00	1.290	21.90
2008							
January	75.60	49.00	87.00	2,200	103.00	1.170	21.30
February	76.80	53.00	87.00		104.00	1.200	19.70
March	76.80	53.00	87.00		103.00	1.290	18.20
April	76.50	52.00	87.00	2,200	103.00	0.800	18.40
May	78.80	55.00	89.00		105.00	0.660	18.70
June	79.80	56.00	90.00		105.00	0.960	19.80
July	81.50	57.00	92.00	2,200	100.00	0.680	20.30
August							
September							
October							
November							
December							

[1] Combined price for "Cows" and "Steers and Heifers."
[2] Beef cows and cull dairy cows sold for slaughter.
[3] Sold for dairy herd replacement only. Prices published January, April, July, and October.

Dry edible beans: Percent of sales by month, 2002-2007

Month	2002-03	2003-04	2004-05	2005-06	2006-07
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
September	12	25	31	23	25
October	27	14	20	29	23
November	16	18	4	6	9
December	4	8	5	6	3
January	4	4	3	5	4
February	2	4	5	3	2
March	8	6	5	3	2
April	2	3	3	1	3
May		10	1	2	2
June	3	3	2	7	25
July	4	3	2	1	1
August	18	2	19	14	1

Corn: Percent of sales by month, 2002-2007

Month	2002-03	2003-04	2004-05	2005-06	2006-07
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
October	15	7	11	17	11
November	23	20	21	13	25
December	10	21	12	9	11
January	14	13	11	11	13
February	8	8	7	8	7
March	6	6	5	6	4
April	6	5	4	8	5
May	6	3	5	6	4
June	3	5	7	5	6
July	4	4	6	5	5
August	3	4	6	6	4
September	2	4	5	6	5

Hay: Percent of sales by month, 2002-2007

Month	2002-03	2003-04	2004-05	2005-06	2006-07
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
June	16	13	14	14	14
July	13	12	12	15	15
August	8	11	9	13	13
September	5	8	6	13	13
October	7	7	6	13	13
November	8	8	8	5	5
December	11	8	9	5	5
January	9	8	10	5	5
February	9	8	9	5	5
March	6	7	7	4	4
April	5	6	6	4	4
May	3	4	4	4	4

Oats: Percent of sales by month, 2002-2007

Month	2002-03	2003-04	2004-05	2005-06	2006-07
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
July	16	9	2	26	13
August	50	55	28	40	43
September	7	8	32	3	7
October	5	6	3	2	5
November	1	2	2	2	1
December	2	2	4	3	5
January	2	2	3	5	6
February	1	2	4	7	5
March	5	5	4	6	8
April	4	5	5	3	3
May	6	1	4	1	1
June	1	3	9	2	3

Soybeans: Percent of sales by month, 2002-2007

Month	2002-03	2003-04	2004-05	2005-06	2006-07
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
September	5	3	5	13	4
October	30	40	20	28	24
November	9	7	16	5	19
December	9	11	7	7	7
January	10	11	7	9	11
February	9	6	10	5	7
March	5	6	8	6	5
April	7	4	5	6	4
May	5	2	5	7	5
June	6	3	11	4	7
July	3	5	3	5	4
August	2	2	3	5	3

Wheat: Percent of sales by month, 2002-2007

Month	2002-03	2003-04	2004-05	2005-06	2006-07
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
July	49	42	41	48	53
August	19	33	18	19	16
September	8	5	10	8	7
October	6	3	4	3	7
November	1	3	4	2	1
December	1	3	3	3	2
January	4	5	4	4	4
February	2	3	8	5	2
March	1	3	4	4	3
April	2		2	1	2
May	2		1	2	1
June	5		1	1	2

Crops: Marketing year average prices received by farmers, 2003-2007 [1]

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
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
2003	2.37	3.25	1.65	7.30	19.30	NA	7.05	93.00	97.00
2004	1.97	3.01	1.72	5.72	22.50	NA	6.95	94.50	97.50
2005	1.88	3.13	1.89	5.73	19.60	NA	7.90	90.00	92.00
2006	3.10	3.41	1.93	6.27	21.10	NA	8.35	94.00	97.00
2007	3.95	5.35	2.60	9.85	28.50	NA	8.40	117.00	119.00

[1] 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, 2006-2007 marketing years

2006-2007 Marketing years	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
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
2006									
June								93.00	95.00
July		3.28	1.83				10.00	87.00	90.00
August		3.11	1.70				7.75	83.00	85.00
September		3.23	1.68	5.32	19.20	18.20	7.00	93.00	95.00
October	2.42	3.76	1.88	5.47	18.80	17.80	6.75	98.00	100.00
November	2.83	4.06	2.26	5.98	19.70	17.90	8.05	96.00	100.00
December	2.97	4.18	1.99	6.09	20.10	17.70	8.45	100.00	105.00
2007									
January	3.20	3.88	1.93	6.28	20.80	19.40	8.75	103.00	110.00
February	3.42	3.78	2.43	6.81	24.90	21.10	9.00	105.00	110.00
March	3.37	3.72	2.59	6.67	24.20	21.20	9.45	105.00	110.00
April	3.36	3.96	2.49	6.79	24.60	23.00	10.40	100.00	105.00
May	3.49	4.02	2.61	7.10	24.30	23.50	10.40	100.00	105.00
June	3.75	4.41	2.67	7.45	24.00	23.80	([1])		
July	3.38			7.56	28.10	24.40			
August	3.30			7.57	26.90	26.60			
September	3.38								
2007									
June								97.00	100.00
July		4.74	2.51				11.50	100.00	105.00
August		5.44	2.47				6.70	108.00	110.00
September		6.08	2.81	8.05	26.00	22.90	6.50	115.00	120.00
October	3.18	6.60	2.86	8.25	27.90	27.70	6.55	123.00	130.00
November	3.37	6.42	3.45	8.99	30.80	29.70	8.15	135.00	140.00
December	3.81	6.66	3.13	9.21	33.50	29.30	8.45	137.00	140.00
2008									
January	4.08	5.78	3.53	10.10	30.80	29.80	8.80	142.00	145.00
February	4.71	7.71	3.67	11.90	37.20	33.40	9.40	143.00	145.00
March	4.82	7.39	4.19	10.90	40.00	36.00	9.90	148.00	150.00
April	5.10	5.57	3.98	11.40	42.10	41.00	10.50	160.00	165.00
May	5.45	5.18	4.20	12.00	41.60	39.00	10.80	151.00	155.00
June	5.88	6.25	4.01	13.10	43.00	38.40	([1])		
July	5.47			13.90	42.50	44.50			
August									
September									

[1] Insufficient sales to establish a price.

Prices paid by farmers, 2004-2008 [1]

Item	Unit	2004	2005	2006	2007	2008
		Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Dairy feed, 16% protein [2]	Ton	216	188	216	241	310
Hog concentrate, 38-42% protein [2]	Ton	393	332	342	366	493
Soybean meal, 44% protein [2]	Cwt	17.4	11.9	13.1	14.4	22.1
Gasoline, unleaded, bulk [2]	Gallon	1.76	2.21	2.59	2.62	3.27
Diesel fuel [2]	Gallon	1.32	1.97	2.29	2.47	3.61
Tractor, 110-129 hp [3]	Each	65,700	68,500	70,900	74,000	76,100
Tractor, 200-280 hp, 4-wd [3]	Each	141,000	142,000	150,000	154,000	176,000
Planter, row crop, 8-row [3]	Each	32,000	31,400	34,100	33,500	38,000
Grain drill, press, 23-25 openers [3]	Each	22,600	25,200	25,200	26,100	26,900
Combine, self-prop. w/ grain head, large cap. [3]	Each	180,000	192,000	201,000	213,000	230,000
Ammonium nitrate [4]	Ton	243	269	427	364	504
Muriate of potash 60-62% K_2O [4]	Ton	178	242	271	277	562
Superphosphate, 44-46% P_2O_5 [4]	Ton	261	295	315	409	779
Anhydrous ammonia [4]	Ton	387	429	543	536	769
Atrazine, 4#/gallon [3]	Gallon	12.2	12.4	12.1	12.2	15.3
Roundup, 4#/gallon EC [3]	Gallon	39.7	33.8	29.3	28.9	40.5
Harness, Surpass, 6.4-7#/gallon EC [3]	Gallon	71.4	67.6	68.9	69.2	71.7
Dual, 8#/gallon EC [3]	Gallon	106	108	107	([5])	([5])
Captan, 50% WP [3]	Pound	3.52	3.65	3.87	4.59	5.51
Ziram, 76% WP [3]	Pound	2.67	2.86	2.88	3.08	3.35
Guthion, 50% WP [3]	Pound	10.7	10.8	11.4	11.7	11.6
Imidan, Prolate, 50% WP [3]	Pound	7.45	8.32	8.44	9.05	8.92

EC=Emulsifiable concentrate. WP=Wettable powder.
[1] Regional and U.S. data only.
[2] Lake States region: Michigan, Minnesota, and Wisconsin.
[3] United States.
[4] North Central region: Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin.
[5] Discontinued in 2007.

Farm production expenses, 2003-2007

Item	2003	2004	2005	2006	2007
	Million dollars	*Million dollars*	*Million dollars*	*Million dollars*	*Million dollars*
Feed purchased	410.7	426.9	407.5	487.6	656.5
Livestock and poultry purchased	40.5	53.2	65.9	70.1	73.4
Seed purchased	329.3	291.7	310.5	296.4	366.9
Fertilizers and lime	254.4	291.5	313.8	309.8	448.6
Pesticides	236.9	217.6	198.2	203.1	222.4
Petroleum fuel and oils	159.9	167.6	210.9	233.8	271.9
Electricity	54.3	66.9	57.2	59.0	68.2
Repair and maintenance of capital items	278.5	280.0	258.9	279.2	305.2
Machine hire and custom work	39.9	55.7	74.8	63.5	86.9
Contract and hired labor expenses	507.8	584.5	496.5	514.9	686.6
Marketing, storage, and transportation expenses	86.7	129.7	171.3	107.2	160.7
Capital consumption	632.3	674.7	718.5	752.2	777.4
Real estate and nonreal estate interest	206.0	204.2	233.1	265.2	283.6
Property taxes	226.6	196.1	209.2	235.3	222.2
Net rent received by nonoperator landlords	14.3	-14.9	65.4	85.6	63.8
Miscellaneous expenses	514.4	470.3	431.2	446.9	559.1
Total production expenses	3,992.5	4,095.5	4,222.7	4,409.7	5,253.6

Farm Labor

Hired farm workers: Annual average wage rates, 2003-2007

Year	All hired workers	Field workers	Field and livestock workers
	Dollars per hour	*Dollars per hour*	*Dollars per hour*
2003	9.74	8.42	8.86
2004	9.40	8.32	8.65
2005	9.79	8.57	8.89
2006	9.95	9.20	9.22
2007 [1]	10.87	10.12	10.01

[1] Lake States region: Michigan, Minnesota, and Wisconsin.

Agricultural Exports

Michigan ranked twentieth in agricultural exports for fiscal year 2007. 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 commodities accounted for approximately 79 percent of the State's agricultural exports. The total value of agricultural exports from Michigan in 2007 was estimated at $1.2 billion.

Michigan agricultural exports: Fiscal year 2007 [1]

Commodity	Value	Percent of total	Rank in U.S.
	Million dollars	*Percent*	*Number*
Soybeans and products	289.5	23.4	12
Feed grains and products	242.0	19.6	13
Other [2]	221.7	17.9	11
Fruits and preparations	122.0	9.9	5
Vegetables and preparations	106.2	8.6	9
Wheat and products	74.7	6.0	27
Live animals and meat, excluding poultry	65.2	5.3	19
Hides and skins	39.5	3.2	13
Feeds and fodders	30.0	2.4	25
Poultry and products	21.0	1.7	25
Seeds	13.2	1.1	19
Fats, oils, and greases	11.8	1.0	13
Total	1,236.7		20

[1] Source: U.S. Department of Agriculture, Economic Research Service, www.ers.usda.gov/data/fatus.
[2] Sugar and tropical products, minor oilseeds, essential oils, beverages other than juice, nursery and greenhouse, wine, and miscellaneous vegetable products.

Michigan agricultural exports: Top 10 destinations, 2006-2007 [1]

Country	2006	2007
	Thousand dollars	*Thousand dollars*
Canada	183,408	211,897
Mexico	26,690	29,864
Japan	11,779	12,152
Austria	2,921	10,343
United Kingdom	2,226	6,925
Saudi Arabia	1,317	6,467
Italy	2,012	5,034
South Korea	3,194	4,265
Germany	1,916	2,646
China	1,502	2,238

[1] Source: U.S. Department of Commerce, International Trade Administration, www.ita.doc.gov.

Agricultural Chemical Usage

The 2007 Field Crop Chemical Usage Report contains statistics for on-farm use of commercial fertilizers, agricultural chemicals, and pest management practices by apple producers in Michigan and six other major apple producing States.

The agricultural chemical use estimates in the report focus on bearing apple acreage treated with herbicides, insecticides, fungicides, and other pesticides. Information in this report is collected from a survey compiled from the Agricultural Resources Management Survey (ARMS). The ARMS survey is conducted in cooperation with the Economic Research Service (ERS). The information from the ARMS survey enables NASS to publish chemical use statistics and to provide ERS the ability to conduct economic analyses relating to field crop chemical usage.

The 2006 Nursery and Floriculture Chemical Usage Report is the third chemical use report based on chemical applications to nursery and floriculture crops in six major States. The survey was conducted for nursery and floriculture chemical applications made during calendar year 2006. All results refer to pesticide and integrated pest management (IPM) practices at nursery and floriculture operations.

The common name and trade name for the active ingredients in the tables can be found on page 95 of the Agricultural Chemical Usage 2007 Field Crops Summary publication which was released on May 21, 2008 or on page 231 of the Agricultural Chemical Usage 2006 Nursery and Floriculture Summary publication which was released on December 19, 2007.

Apples: Agricultural chemical applications, 2007 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
2,4-D, dimeth. salt	19	1.2	0.895	1.079	7.4
Diuron	11	1.0	1.584	1.659	6.6
Glyphosate iso. salt	42	1.2	1.067	1.252	18.3
Paraquat	7	1.1	0.751	0.854	2.0
Pendimethalin	7	1.3	2.180	2.797	6.6
Simazine	8	1.1	2.164	2.366	6.7
Terbacil	4	1.0	0.504	0.504	0.7
Insecticides					
Abamectin	11	1.1	0.011	0.013	([2])
Acetamiprid	22	1.5	0.182	0.279	2.2
Azinphos-methyl	86	2.7	0.803	2.194	65.8
Benzoic acid	18	1.4	0.193	0.267	1.7
Bt subsp. kurstaki	3	1.0	([3])	([3])	([3])
Carbaryl	47	1.2	0.970	1.128	18.4
Chlorpyrifos	65	1.4	1.141	1.648	37.5
Cyd-X Granulo. Virus	14	2.1	([3])	([3])	([3])
Cyfluthrin	2	1.0	0.035	0.035	([2])
Emamectin benzoate	23	1.5	0.014	0.021	0.2
Esfenvalerate	39	1.4	0.035	0.048	0.7
Etoxazole	4	1.1	0.092	0.097	0.1
Fenpropathrin	12	1.3	0.277	0.353	1.5
Fenpyroximate	16	1.0	0.096	0.096	0.5
Gamma-cyhalothrin	4	1.9	0.020	0.037	0.1
Imidacloprid	25	1.6	0.073	0.113	1.0
Lambda-cyhalothrin	8	1.1	0.027	0.029	0.1
Methomyl	15	1.5	0.755	1.124	5.9
Novaluron	41	1.5	0.137	0.210	3.0
Permethrin	8	1.3	0.177	0.236	0.6
Petroleum distillate	8	1.5	17.203	25.179	73.3
Petroleum oil	6	1.0	6.928	6.933	13.6
Phosmet	46	2.4	1.551	3.766	60.4
Pyridaben	13	1.0	0.294	0.294	1.4
Spinosad	4	2.2	0.081	0.182	0.2
Thiacloprid	29	1.5	0.173	0.267	2.7

See footnote(s) at end of table.

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Apples: Agricultural chemical applications, 2007 [1] (continued)

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Fungicides					
Bacillus subtilus	5	1.4	([3])	([3])	([3])
Basic copper sulfate	6	1.1	0.838	0.901	1.9
Calcium polysulfide	2	1.3	6.547	8.825	5.7
Captan	93	4.7	2.171	10.262	332.6
Copper hydroxide	11	1.4	2.027	2.750	10.8
Copper oxychlo. sul.	7	1.1	2.031	2.229	5.3
Copper oxychloride	4	1.1	2.253	2.497	3.5
Copper sulfate	7	1.7	0.746	1.267	3.1
Cyprodinil	12	1.3	0.166	0.216	0.9
Fenarimol	5	2.2	0.044	0.096	0.2
Kresoxim-methyl	26	1.7	0.124	0.208	1.9
Mancozeb	77	3.2	3.224	10.263	276.7
Metiram	20	2.7	3.209	8.762	59.9
Myclobutanil	28	2.1	0.110	0.234	2.3
Oxytetracycline	2	1.5	0.232	0.352	0.3
Pyrimethanil	13	1.4	0.290	0.415	1.9
Streptomycin	25	1.5	0.225	0.328	2.8
Streptomycin sulfate	7	2.3	0.293	0.669	1.5
Sulfur	15	3.9	4.512	17.781	92.9
Thiophanate-methyl	18	2.6	0.324	0.837	5.2
Triadimefon	13	1.9	0.061	0.117	0.5
Trifloxystrobin	43	1.9	0.060	0.113	1.7
Ziram	27	2.1	2.877	6.092	58.6
Other chemicals					
Benzyladenine	16	1.2	0.062	0.072	0.4
Gibberellic acid	3	1.6	0.047	0.074	0.1
Gibberellins A4A7	2	1.3	0.010	0.014	([2])
NAA, Potassium salt	3	1.2	0.006	0.007	([2])
NAA, Sodium	32	1.1	0.021	0.024	0.3
Prohexadione calcium	16	1.6	0.152	0.240	1.4
Spirodiclofen	32	1.0	0.217	0.227	2.5
Warfarin	4	1.0	0.006	0.006	([2])

[1] Bearing acres in 2007 were 35,000 acres.
[2] Total applied is less than 50 lbs.
[3] Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Fertilizer applications: Apples, 2007 [1]

Fertilizer	Symbol	Area applied	Applications	Rate per application	Rate per crop year	Total applied
		Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 pounds*
Nitrogen	N	58	1.9	24	46	941.5
Phosphate	P_2O_5	25	2.2	15	33	294.1
Potash	K_2O	51	1.9	33	63	1,122.6
Sulfur	S	6	1.8	10	18	36.1

[1] Bearing acres in 2007 were 35,000 acres.

All nursery: Percent of Michigan operations using an active ingredient and rate per acre in all program States, 2006 [1]

Active ingredient	Operations using active ingredient	Rate per acre
	Percent	*Pounds per acre*
Herbicides		
Atrazine	6	2.156
Flumioxazin	7	0.241
Glyphosate iso. salt	54	1.235
Hexazinone	7	0.863
Oryzalin	13	2.502
Oxfluorfen	18	1.509
Simazine	15	1.485
Insecticides		
Acephate	8	0.902
Bifenthrin	9	0.057
Carbaryl	30	1.129
Chlorpyrifos	21	0.917
Cyfluthrin	13	0.040
Diflubenzuron	7	0.076
Imidacloprid	5	0.179
Malathion	7	1.275
Methomyl	6	0.739
Petroleum distillate	6	11.413
Phosmet	7	0.588
Fungicides		
Chlorothalonil	23	2.301
Mancozeb	7	0.957
Mefenoxam	5	0.524
Thiophanate-methyl	9	0.756

[1] Active ingredients excluded if used by less than 5 percent of operations. Program States: CA, FL, MI, OR, PA, and TX.

Christmas trees: Percent of Michigan operations using an active ingredient and rate per acre in all program States, 2006 [1]

Active ingredient	Operations using active ingredient	Rate per acre
	Percent	*Pounds per acre*
Herbicides		
Atrazine	13	2.451
Fluazifop-P-butyl	6	0.369
Flumioxazin	8	0.260
Glyphosate iso. salt	66	0.903
Hexazinone	14	0.828
Oxyfluorfen	12	0.566
Simazine	31	1.408
Insecticides		
Carbaryl	42	0.966
Chlorpyrifos	34	0.920
Cyfluthrin	17	0.049
Diflubenzuron	13	0.037
Malathion	5	1.187
Petroleum distillate	9	6.850
Fungicides		
Chlorothalonil	37	1.615

[1] Active ingredients excluded if used by less than 5 percent of operations. Program States: CA, FL, MI, OR, PA, and TX.

All floriculture: Percent of Michigan operations using an active ingredient and rate per acre in all program States, 2006 [1]

Active ingredient	Operations using active ingredient	Rate per acre
	Percent	*Pounds per acre*
Insecticides		
Abamectin	43	0.009
Acephate	42	0.708
Acetamiprid	9	0.201
Azadirachtin	12	0.030
Bifenazate	12	0.265
Bifenthrin	19	0.096
Carbaryl	6	1.154
Chlorpyrifos	14	0.581
Clothianidin	6	0.295
Cyfluthrin	11	0.202
Diflubenzuron	5	0.072
Endosulfan	9	0.717
Fenpropathrin	14	0.222
Fluvalinate	7	0.156
Imidacloprid	39	0.113
Methiocarb	5	0.943
Piperonyl butoxide	10	0.265
Potassium salts	5	3.284
Pymetrozine	13	0.158
Pyrethrins	9	0.016
Pyridaben	6	0.290
Pyridine	6	0.098
S-Kinoprene	7	0.493
Spinosad	29	0.105
Thiamethoxam	6	0.046
Fungicides		
Azoxystrobin	7	0.136
Butanone	6	0.145
Captan	5	1.384
Chlorothalonil	29	1.686
Copper sulfate	8	0.090
Etridiazole	25	3.590
Fenhexamid	13	0.476
Fludioxonil	11	0.877
Fosetyl-al	5	2.796
Iprodione	15	0.809
Mancozeb	7	1.464
Mefenoxam	23	0.394
PCNB	9	2.409
Thiophanate	27	0.568
Thiophanate-methyl	32	2.105
Trifloxystrobin	10	0.129
Other chemicals		
Ancymidol	6	0.003
Benzyladenine	5	0.033
Chlormequat chloride	17	1.753
Daminozide	30	3.020
Ethephon	19	0.577
Gibberellins A4A7	5	0.033
Hydrogen peroxide	6	1.470
Paclobutrazol	34	0.024
Uniconazole	16	0.012

[1] Active ingredients excluded if used by less than 5 percent of operations. Program States: CA, FL, MI, OR, PA, and TX.

Commercial fertilizer consumption: 2002-2006 [1]

Item	Year ending June 30				
	2002	2003	2004	2005	2006
	Short tons	*Short tons*	*Short tons*	*Short tons*	*Short tons*
Primary plant nutrients					
Total N	240,680	238,296	264,850	253,433	232,710
N in multi-nutrients	55,048	60,449	60,405	57,559	58,308
Total P_2O_5	84,734	85,485	94,352	82,885	85,746
P_2O_5 in multi-nutrients	82,377	83,193	92,225	81,187	83,841
Total K_2O	189,200	189,463	210,479	189,432	163,523
K_2O in multi-nurtrients	41,924	45,298	46,989	41,926	36,883
Total plant nutrients	514,615	513,243	569,680	525,751	481,979
Average analysis	43.1	40.1	41.1	37.7	41.3
Total nutrients in multi-nutrients	179,349	188,940	199,620	180,673	179,031
Selected single-nutrient materials					
Ammonium nitrate	5,405	7,856	6,619	7,501	5,168
Anhydrous ammonia	52,766	39,235	43,551	50,071	33,759
Nitrogen solutions	284,355	285,787	323,712	301,868	279,293
Urea	107,305	107,854	132,493	108,090	107,941
Ammonium sulfate	23,569	25,294	30,376	36,660	30,254
Concentrated superphosphate	4,984	4,515	4,139	3,716	4,189
Potassium chloride	236,720	231,668	259,011	234,700	203,398
Multiple-nutrient fertilizers					
N-P-K	334,670	265,924	294,691	227,081	245,713
N-P	129,900	133,062	142,136	134,719	143,185
N-K	27,096	34,853	33,024	44,437	56,456
P-K	3,831	2,828	3,129	2,926	2,536
Leading multiple-nutrient grades					
10-34-0	44,303	46,717	50,860	37,026	47,687
18-46-0	36,672	37,149	35,938	38,902	39,534
11-52-0	24,636	25,865	34,428	35,776	35,295
28-3-3	7,761	7,654	7,357	6,951	12,504
19-19-19	13,989	12,709	16,547	13,756	11,670
4-10-10	([2])	([2])	([2])	([2])	7,347
Fertilizer consumption by classes					
Dry bulk single-nutrient	392,966	443,887	472,774	430,495	380,147
Dry bagged single-nutrient	23,385	40,127	35,943	19,815	18,688
Fluid single-nutrient	339,295	343,115	373,002	362,722	319,143
Dry bulk multiple-nutrient	223,668	231,005	248,576	202,878	214,164
Dry bagged multiple-nutrient	187,396	132,037	150,598	137,291	145,636
Fluid multiple-nutrient	84,433	73,625	73,805	68,993	88,090
Organics, secondary and micronutrients	31,883	84,679	60,845	58,519	148,112
Total	1,283,026	1,348,475	1,415,544	1,280,715	1,313,980

[1] Source: The Association of American Plant Food Control Officials.
[2] Grade not published.

Field Crops

Growing Season Weather Summary

Dr. Jeff Andresen, Michigan State University

The 2007 growing season in Michigan had some of the worst drought conditions experienced in the State in 20 years. Prior to the growing season, precipitation totals were above normal, leaving much of the State with a full or nearly full soil moisture profile entering the growing season. As of early April, the Palmer Drought Severity Index categorized all of the Lower Peninsula as 'Unusually' to 'Extremely Moist', with 'Near Normal' values for the Upper Peninsula.

Following a brief period of abnormal warmth during late March which allowed some initial fieldwork, a record-breaking cold air mass moved into the State on April 3, bringing an unusual late season lake effect snowfall event to all areas of the State. Snowfall totals by April 8 exceeded 50 inches in some areas of the Upper Peninsula. Sub-freezing temperatures occurred in all areas of the State from April 4 to 8, with low temperatures falling into the teens and 20's in the south to as low as -5°F in sections of the Upper Peninsula. The cold, wet weather generally delayed spring fieldwork and planting until late in the month. A return to warmer and drier than normal weather in early May allowed rapid planting progress and favored early crop establishment.

Beginning at the end of May, an extended period of sunny, dry, and warm weather persisted well into August across most sections of the State. During June, the sunny, warm, and dry weather caused moisture reserves in the soil profile to fall sharply, leaving crops entering the period of the growing season with highest water needs with depleted moisture levels.

Hot and abnormally dry conditions continued through July into early August, stressing crops during critical pollination stages of development. By mid-August, precipitation deficits for the growing season beginning April 1 had grown in many areas to the 3 to 5-plus inch range, even given the wetter than normal conditions early in the season. The areas of greatest precipitation deficits included areas of the southwestern and eastern Lower Peninsula as well as the western Upper Peninsula, where totals from mid-June through early August were less than 25 percent of normal. In some areas of the State, July 2007 was one of the five driest on record. The extended drought conditions resulted in yield reductions to many crops, especially those on coarse-textured soils or where soil compaction was present. A break in the drought began in mid-August. A southward shift of the jet stream led to the persistence of a stationary front across the region. The front served as a focusing mechanism for heavy rainfall across much of the Upper Midwest including the Lower Peninsula of Michigan. Ironically, some locations in the State recorded more than 10 inches of rain over a two week period of late August that resulted in flooding. Overall, rain from this system came just in time to benefit many crops and prevented further reductions in crop yields.

Milder and drier than normal weather returned to the State during much of September and early October. The warm temperatures led to rapid maturation of crops. The first killing frost over much of the State was much later than normal in late October and favored rapid grain drydown rates. The unusually mild, dry September and October led to significant savings for growers in reduced drying costs.

Overall for the 5-month May to September period, precipitation totals were much below normal levels in most northern and central sections of the State. It was the third consecutive year in northern sections in which this occurred. Precipitation levels were much above normal across southern sections of the Lower Peninsula. Mean temperatures and seasonal growing degree day accumulations were generally above the climatological normals. As is the case in many growing seasons, the overall averages or totals cannot describe the variability of weather conditions that took place during the season, with wide swings from extreme drought to excessive wetness within the course of only a few weeks.

Field crops: Acres harvested and value of production, 2003-2007

Item	Unit	2003	2004	2005	2006	2007
Acres harvested	1,000 acres	6,418	6,372	6,481	6,461	6,444
Value of production	1,000 dollars	1,768,563	1,653,098	1,709,004	2,323,289	2,709,690

Grain storage capacity, December 1, 2003-2007

Year	Off farm		On farm capacity
	Facilities	Rated capacity	
	Number	*Million bushels*	*Million bushels*
2003	220	145	240
2004	215	150	250
2005	215	148	250
2006	211	155	260
2007	210	160	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	11	2005	1866
Yield per acre	Bushels	68.0	1985	13.5	1933	
Production	1,000 bu	8,400	1918	517	2005	
Dry Edible beans						
Harvested acres	1,000 acres	690	1930	130	2001	1909
Yield per acre	Pounds	2,100	1999	320	1917	
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	147.0	2006	21.5	1917	
Production	1,000 bu	293,180	1982	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	5,743	1986	1,014	1866	
Oats						
Harvested acres	1,000 acres	1,658	1918	55	2001,2007	1866
Yield per acre	Bushels	70.0	2003	18.5	1921	
Production	1,000 bu	69,388	1946	3,190	2007	
Potatoes						
Harvested acres	1,000 acres	374.0	1895	36.4	1975	1866
Yield per acre	Cwt	350.0	2007	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	45.0	2006	8.0	1927	
Production	1,000 bu	89,550	2006	10	1930	
Spearmint						
Harvested acres	1,000 acres	8.7	1954	0.7	1935	1935
Yield per acre	Pounds	60.0	2006,2007	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	23.4	2007	5.5	1916	
Production	1,000 tons	3,573	2006	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	47,450	2006	7,350	1912	

Barley

Michigan barley growers planted 14,000 acres and harvested 13,000 acres in 2007. Total production was 728,000 bushels, up 6 percent from 2006. The average yield increased by 7 bushels to 56 bushels per acre. Barley planting began in April and progressed ahead of the five-year average. Despite a cool, wet spring slowing planting and early development, warmer and drier conditions later in the growing season advanced crop progress ahead of normal. By the middle of June, 98 percent of the crop had emerged. Going into harvest, more than 75 percent the crop was rated in fair to good condition.

Barley: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Bushels*	*1,000 bushels*	*Dollars*	*1,000 dollars*
2003	15	14	56	784	1.70	1,333
2004	14	12	51	612	1.80	1,102
2005	15	11	47	517	1.80	931
2006	15	14	49	686	1.80	1,235
2007	14	13	56	728	2.50	1,820

[1] Marketing year average.

Corn

There were 2.65 million acres planted to corn in 2007, up 450,000 acres from 2006. Grain corn production was 291.4 million bushels, up 1 percent from 2006; 2.35 million acres were harvested for grain. The yield of 124 bushels per acre was down 23 bushels per acre from the 2006 crop. Farmers harvested 280,000 acres of corn for silage; the average yield was 15.0 tons per acre.

Planting of corn in Michigan began in mid-April, about the normal schedule. Wet field condition in late April and early May hampered planting efforts. Dry, warm weather returned in mid-May, and planting progressed rapidly. Planting was virtually complete by June 7, slightly ahead of normal. Warm weather in late May and early June kept emergence progress ahead of normal. By mid-June, almost all plants were emerged, ahead of average. Dry conditions were becoming a concern, as rainfall across the State since April 1 was about an inch below normal. By August 1, yield prospects for major corn areas were poor. Cumulative rainfall since April 1 was 2 to 3 inches below normal in major corn growing areas. Most of this shortfall occurred during the critical growing period for corn, June and July. As of July 31, about 60 percent of the State was in drought. The crop was about one week ahead of the average stage of development as of September 1. Rainfall in August was 1 to 4 inches above normal in major corn areas. This did not have a substantial positive influence on potential yields since most of the crop had silked by August 1. Only one-fourth of the acreage was rated good to excellent at the outset of September. Eighty-eight percent of the corn in Michigan had reached maturity by Oct. 1, well ahead of the average 63 percent. Harvest began about September 15. Combining conditions were excellent, and progress was ahead of normal throughout the harvest season. There was more than normal abandonment.

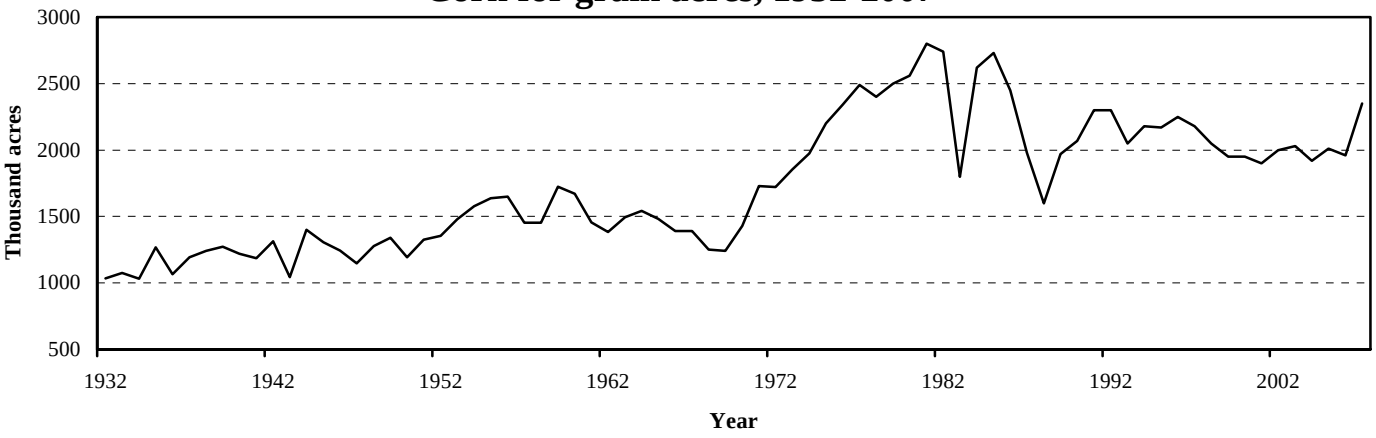
The 2007 corn crop was valued at $1.15 billion, up 29 percent from 2006. Corn continued to be Michigan's number one crop in value of production. The top three counties in corn production in 2007 were Lenawee, Huron, and Saginaw.

Corn: Acres, yield, production, and value, 2003-2007

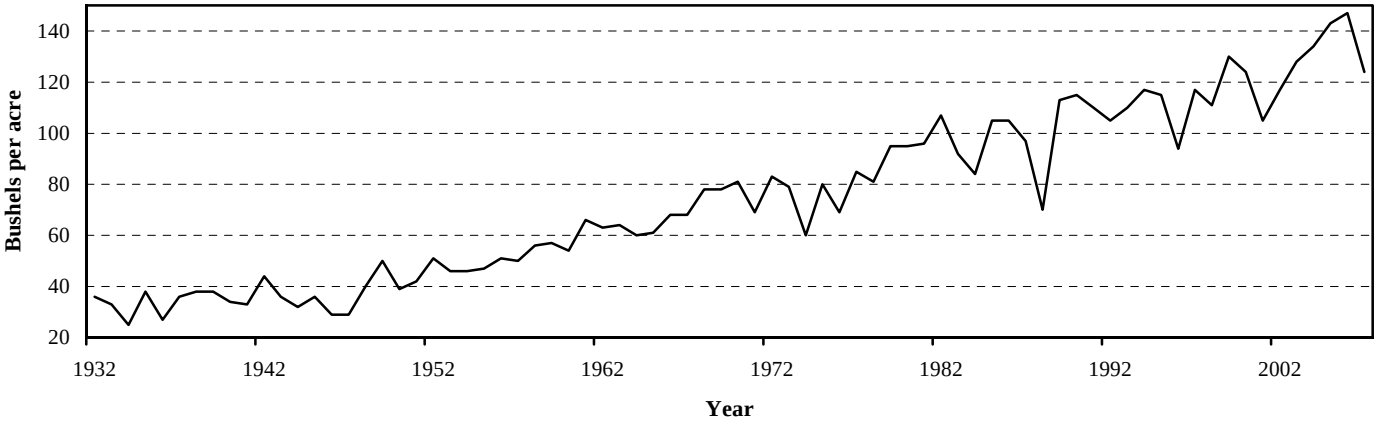
Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Bushels*	*1,000 bushels*	*Dollars*	*1,000 dollars*
All						
2003	2,250					
2004	2,200					
2005	2,250					
2006	2,200					
2007	2,650					
Grain						
2003		2,030	128	259,840	2.37	615,821
2004		1,920	134	257,280	1.97	506,842
2005		2,010	143	287,430	1.88	540,368
2006		1,960	147	288,120	3.10	893,172
2007		2,350	124	291,400	3.95	1,151,030
	1,000 acres	*1,000 acres*	*Tons*	*1,000 tons*		
Silage						
2003		210	16.0	3,360		
2004		265	18.0	4,770		
2005		230	17.5	4,025		
2006		230	16.5	3,795		
2007		280	15.0	4,200		

[1] Marketing year average.

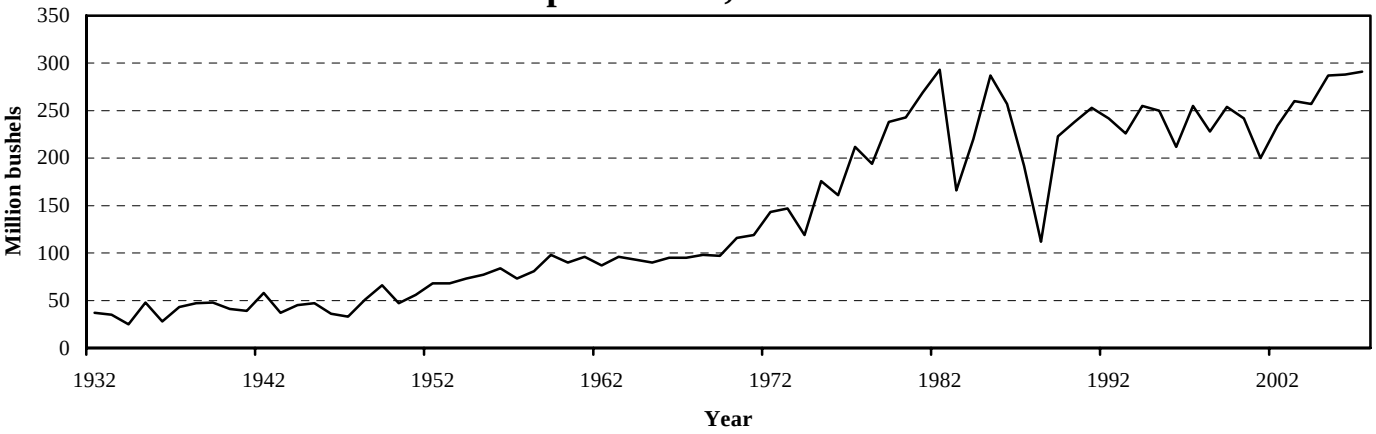
Corn for grain acres, 1932-2007



Corn yield, 1932-2007



Corn production, 1932-2007



Corn for grain: Stocks by quarter, 2003-2007

Crop year	December 1		March 1		June 1		September 1	
	On farm	Off farm	On farm	Off farm	On farm	Off farm	On farm	Off farm
	1,000 bushels	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*
2003	140,000	56,500	77,000	51,300	43,000	34,600	16,000	13,200
2004	140,000	60,600	100,000	48,350	59,000	30,000	23,000	15,900
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		

Corn: Percentage of acreage planted, 2003-2007

Year	Month and day					
	April		May			June
	20	30	10	20	30	10
2003	0	11	33	48	83	97
2004	8	34	61	68	77	90
2005	17	34	68	87	98	100
2006	3	31	69	84	93	100
2007	1	12	48	80	95	100
5-year-average	5.7	24.7	55.8	73.3	89.3	97.3

Corn: Percentage of acreage silked, 2003-2007

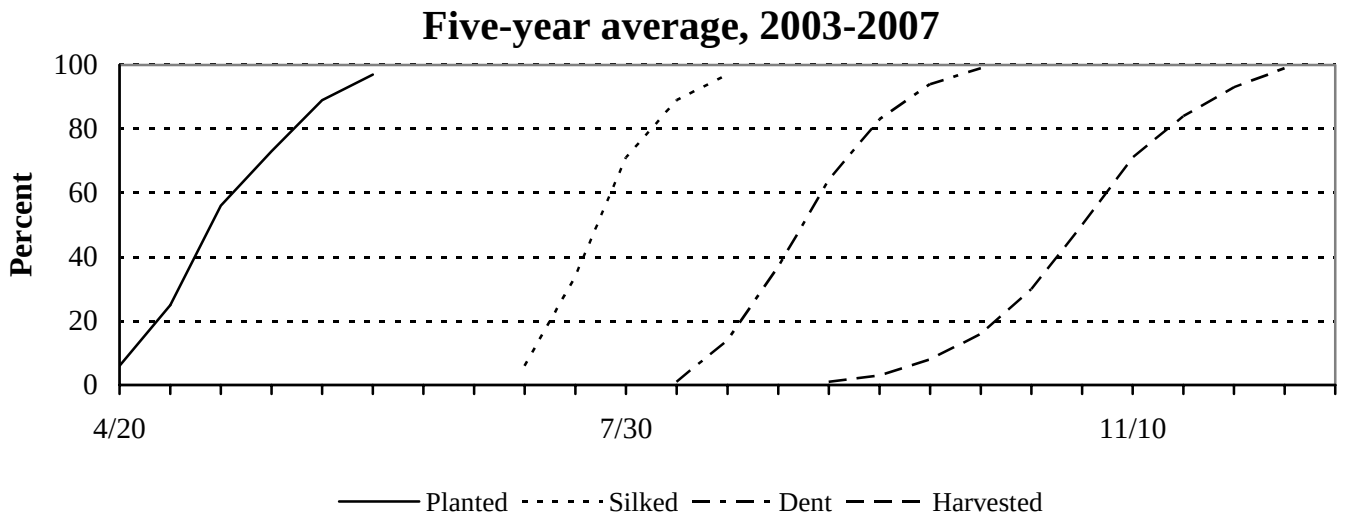
Year	Month and day					
	July				August	
	1	10	20	30	10	20
2003	0	1	3	40	86	98
2004	0	1	27	61	74	86
2005	0	7	47	91	97	100
2006	0	6	44	84	95	100
2007	0	14	50	77	94	100
5-year-average	0.0	5.7	34.3	70.5	89.1	96.8

Corn: Percentage of acreage dent stage, 2003-2007

Year	Month and day						
	August			September			October
	10	20	30	10	20	30	10
2003	0	1	16	40	73	91	99
2004	0	1	11	34	58	82	96
2005	0	20	55	84	97	99	100
2006	1	27	55	84	93	98	100
2007	2	22	45	77	92	100	100
5-year-average	0.6	14.4	36.5	63.9	82.5	93.9	99.0

Corn: Percentage of acreage harvested for grain, 2003-2007

Year	Month and day									
	September			October			November			December
	10	20	30	10	20	30	10	20	30	10
2003	0	0	4	7	19	37	54	78	91	100
2004	0	0	3	13	25	49	68	82	93	100
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
5-year-average	0.5	2.6	7.6	16.1	29.5	50.2	70.6	83.9	93.1	98.8



Dry Edible Beans

Michigan dry bean planting was completed ahead of the 5-year average. The crop condition was rated 42 percent good to excellent for the week ending July 29, 2007, compared to 71 percent for the week ending July 31, 2006. Dry conditions persisted through the summer, decreasing yields from previous years. Harvest began the first week of September for early planted fields. Eighty percent was harvested by October 1, 2007, and was mostly completed by October 15, 2007. Yields were generally lower due to excessive dry conditions in mid-June to the beginning of August. New pod growth did occur with timely rains during August. Some farmers reported this increased their yields while other farmers reported this increased immature pod development and delayed harvest.

Michigan's 2007 total dry bean production was 3.1 million hundredweight (cwt), which represented 12.3 percent of U.S. production. Michigan ranked second in dry bean production for 2007. The number one dry bean producer in the nation was North Dakota with 10.6 million cwt, up 38 percent from last year.

Dry edible beans: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Pounds*	*1,000 cwt*	*Dol/cwt*	*1,000 dollars*
2003	170	165	1,500	2,475	19.30	47,768
2004	190	185	1,700	3,145	22.50	70,763
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	28.50	88,920

[1] Marketing year average.

Dry edible beans: Acres, yield, and production, by class, 2003-2007

Class and Year	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Pounds*	*1,000 cwt*
Black				
2003	45,000	43,000	1,580	680
2004	74,000	73,000	1,770	1,290
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
Cranberry				
2003	12,000	12,000	1,180	142
2004	9,500	9,000	1,440	130
2005	10,500	9,500	1,470	140
2006	8,000	7,900	1,460	115
2007	6,900	6,800	1,290	88
Great Northern				
2003	8,000	8,000	1,680	134
2004	1,000	1,000	1,600	16
2005	2,000	1,800	1,660	30
2006	500	500	2,000	10
2007 [1]				
Navy				
2003	40,000	38,000	1,560	592
2004	55,000	54,000	1,800	970
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
Pinto				
2003	11,000	10,500	1,430	150
2004	7,000	6,500	1,710	111
2005	18,000	17,500	1,600	280
2006	5,000	4,900	1,900	93
2007	4,000	3,900	1,490	58
Red kidney, dark				
2003	9,000	9,000	1,330	120
2004	7,000	6,500	1,230	80
2005	8,000	7,700	1,430	110
2006	4,000	3,600	1,170	42
2007	2,300	2,000	900	18
Red kidney, light				
2003	16,000	15,500	1,540	239
2004	15,000	14,500	1,460	212
2005	17,000	16,800	1,430	240
2006	11,300	10,300	1,700	175
2007	8,600	8,400	1,180	99
Small, red				
2003	19,000	19,000	1,470	280
2004	15,500	15,000	1,740	261
2005	31,000	30,500	1,770	540
2006	20,000	19,500	2,000	390
2007	16,000	15,500	1,630	253
Other				
2003	10,000	10,000	1,380	138
2004	6,000	5,500	1,360	75
2005	8,000	7,700	1,690	130
2006	4,600	4,200	1,670	70
2007	4,700	4,400	1,680	74

[1] Included in Other class.

Hay and Haylage

Michigan hay production was estimated at 2.88 million tons, down from 3.67 in 2006. Alfalfa and alfalfa mixtures accounted for 81 percent of all dry hay produced. All hay harvested acres were estimated at 1.08 million, down from 1.14 million in 2006. The average all hay yield was 2.67 tons per acre, down from 3.22 the previous year. Alfalfa stands began the season in good condition with little damage from winterkill. First cuttings started in late May. There were several reports of alfalfa weevil in the southern areas with some damage to the crop. Hay cuttings advanced ahead of normal throughout the summer. September rains helped hay re-growth, but harvest was slowed due to cooler weather. Fourth cuttings were completed in November. Alfalfa accounted for 800,000 acres of the total harvested with a yield of 2.9 tons per acre. Other hay accounted for 280,000 acres with a yield of 2.0 tons per acre. Value of the hay crop was $334 million, down 3 percent from 2006.

Hay, haylage, and greenchop: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Tons*	*1,000 tons*	*Dollars*	*1,000 dollars*
All dry hay						
2003		1,050	2.97	3,120	93.00	295,240
2004		1,100	2.97	3,270	94.50	304,525
2005		1,150	2.86	3,290	90.00	294,180
2006		1,140	3.22	3,670	94.00	343,714
2007		1,080	2.67	2,880	117.00	334,320
Alfalfa hay						
2003		850	3.20	2,720	97.00	263,840
2004		850	3.20	2,720	97.50	265,200
2005		900	3.10	2,790	92.00	256,680
2006		830	3.60	2,988	97.00	289,836
2007		800	2.90	2,320	119.00	276,080
Alfalfa seedings						
2003	130					
2004	135					
2005	135					
2006	120					
2007	100					
Other hay						
2003		200	2.00	400	78.50	31,400
2004		250	2.20	550	71.50	39,325
2005		250	2.00	500	75.00	37,500
2006		310	2.20	682	79.00	53,878
2007		280	2.00	560	104.00	58,240
All haylage and greenchop						
2003		270	5.50	1,486		
2004		335	6.03	2,020		
2005		320	6.50	2,080		
2006		300	6.64	1,992		
2007		295	6.76	1,995		
Alfalfa haylage and greenchop						
2003		250	5.60	1,400		
2004		310	6.20	1,922		
2005		300	6.70	2,010		
2006		280	6.90	1,932		
2007		280	7.00	1,960		

[1] Marketing year average.

Hay: Stocks on farms, 2004-2008

Year	May 1	December 1
	1,000 tons	*1,000 tons*
2004	250	1,893
2005	500	1,852
2006	395	2,385
2007	350	1,700
2008	320	([1])

[1] Published in January 2009.

Maple Syrup

Michigan maple syrup production was estimated at 100,000 gallons for the 2008 season, 40,000 gallons above 2007. This was the highest on record since 1964, when 110,000 gallons were produced. The tapping season was relatively short with most producers starting later than normal. Producers reported the syrup was better than average quality, with higher sugar content throughout most of the season. The length of the season was 23 days, compared to 20 days in 2007. Producers indicated that 50 percent of the syrup was medium in color.

Michigan was ranked sixth in maple syrup production in 2008 and produced 6 percent of the total U.S. production. Total taps were 405,000, and the syrup yield was 0.247 gallons per tap. The average price per gallon sold in 2007 was $41.60, and the value of production was $2.496 million, falling 14 percent from 2006.

Maple syrup: Taps, yield, production, price, and value, 2004-2008

Year	Taps	Yield per tap	Production	Price per gallon	Value of production
	1,000	*Gallons*	*1,000 gallons*	*Dollars*	*1,000 dollars*
2004	370	0.216	80	38.00	3,040
2005	390	0.149	58	36.00	2,088
2006	375	0.208	78	37.00	2,886
2007	400	0.150	60	41.60	2,496
2008	405	0.247	100	([1])	([1])

[1] Published in June 2009.

Mint

Mint: Acres, yield, production, and value, 2003-2007

Year	Harvested	Yield	Production	Price per pound [1]	Value of production
	1,000 acres	*Pounds*	*1,000 Pounds*	*Dollars*	*1,000 dollars*
Peppermint					
2003	1.1	40	44	11.00	484
2004	1.0	45	45	10.90	491
2005	1.0	35	35	12.00	420
2006	0.7	50	35	13.50	473
2007	0.7	40	28	14.40	403
Spearmint					
2003	1.6	40	64	9.50	608
2004	1.6	45	72	9.30	670
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

[1] Marketing year average.

Oats

There was a decline in oat acreage for the State in 2007. Growers planted 70,000 acres of oats in 2007, compared with 80,000 the previous year. Harvested acres, at 55,000, were also down 10,000 from last year. The 2007 oat production was 3.19 million bushels, down 21 percent from the previous year. Yield, at 58 bushels per acre, was down 4 bushels from 2006.

Wet conditions early in the spring delayed planting, but favorable weather conditions through May pushed planting ahead of normal. Warm and dry conditions during the growing season rapidly advanced the crop. By July 1, about 80 percent of the crop was headed and 13 percent had begun to turn yellow. Harvest began in mid-July and was completed by the end of August. For 2007, Sanilac County was again ranked first in oat production, while Clinton, Presque Isle, Huron, and Shiawassee rounded out the top five counties.

Oats: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Bushels*	*1,000 bushels*	*Dollars*	*1,000 dollars*
2003	90	75	70	5,250	1.65	8,663
2004	80	65	68	4,420	1.72	7,602
2005	90	75	61	4,575	1.89	8,647
2006	80	65	62	4,030	1.93	7,778
2007	70	55	58	3,190	2.60	8,294

[1] Marketing year average.

Potatoes

Michigan's 2007 potato production was 14.70 million hundredweight (cwt) up slightly from 14.19 million in 2006. Planted acres were 42,500 and harvested acres were 42,000. The State's average yield was a record high 350 cwt per acre, up from the 2006 yield of 330 cwt. Potato planting began the end of April and was completed in a timely manner due to good planting conditions. Emergence was also good. Potatoes on irrigated acres grew well through the summer. The drought did cut yields on non-irrigated acres. There were low disease and insect pressures across the State and farmers were able to take timely corrective action when needed. At the end of October, potato harvest was nearing completion.

For 2007, Michigan again ranked tenth among States for potato production. Most Michigan potatoes are whites, which comprised approximately 85 percent of planted acreage, followed by russets and reds at 12 and 1 percent of planted acreage, respectively. The yellow category was added in 2007 and comprised approximately 2 percent of planted acres. Whites are processed for potato chips or sold for table use, while russets are used for french fries and other frozen products.

Fall potatoes: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Cwt*	*1,000 cwt*	*Dollars*	*1,000 dollars*
2003	46.0	45.5	330	15,015	7.05	105,856
2004	43.0	42.0	325	13,650	6.95	94,868
2005	43.0	42.8	325	13,910	7.90	109,889
2006	43.5	43.0	330	14,190	8.35	118,487
2007	42.5	42.0	350	14,700	8.40	123,480

[1] Marketing year average.

Fall potatoes: Stocks by type as percent of total stocks, December 1, 2003-2007

Type	2003	2004	2005	2006	2007
	Percent	*Percent*	*Percent*	*Percent*	*Percent*
White	86	89	87	87	86
Russet	13	10	12	12	12
Red	1	1	1	1	1
Yellow [1]					1

[1] Estimates began in 2007.

Fall potatoes: Production and disposition, 2003-2007

Crop year	Production	Total used for seed	Farm Disposition		Sold
			Seed, feed, and home use	Shrinkage and loss	
	1,000 cwt	*1,000 cwt*	*1,000 cwt*	*1,000 cwt*	*1,000 cwt*
2003	15,015	1,060	265	1,680	13,070
2004	13,650	860	194	1,656	11,800
2005	13,910	1,044	182	1,728	12,000
2006	14,190	961	180	1,800	12,210
2007	14,700	([1])	([1])	([1])	([1])

[1] Published in September 2008

Fall potatoes: Stocks, 2003-2007

Crop year	December 1	January 1	February 1	March 1	April 1	May 1
	1,000 cwt	*1,000 cwt*	*1,000 cwt*	*1,000 cwt*	*1,000 cwt*	*1,000 cwt*
2003	9,200	7,700	6,200	5,100	3,200	1,500
2004	8,000	6,300	4,800	3,600	2,200	900
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	9,500	7,400	6,200	4,600	2,900	1,600

Soybeans

Michigan soybean production totaled 67.9 million bushels, down 24 percent from 2006. The yield was 39 bushels per acre in 2007, which was above the 5-year average. Planted acres decreased by 250,000 acres from last year. Harvested acres fell accordingly to 1.74 million. However, price went up 57 percent from 2006. Soybean planting began in late April on a limited basis due to cool soil temperatures. Planting progress was faster in the southern districts than the central districts of the State. Soybean planting continued at a rapid pace in May. Planting was nearly complete and early planted beans began to emerge by the beginning of June. The presence of bean leaf beetles was reported in some areas. Development varied by region into July. The southeast fields were at the flowering stage, and the central regions were growing very slowly and were shorter than normal, while growth was progressing well in the southwest on irrigated land. Growth lagged in drier areas and soybean aphids were widespread but mostly low in populations. Soybean harvest was hindered in some areas by green stem re-growth. Scattered precipitation in late October slowed soybean harvest, but it was completed by the middle of November.

Soybeans: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Bushels*	*1,000 bushels*	*Dollars*	*1,000 dollars*
2003	2,000	1,990	27.5	54,725	7.30	399,493
2004	2,000	1,980	38.0	75,240	5.72	430,373
2005	2,000	1,990	38.5	76,615	5.73	439,004
2006	2,000	1,990	45.0	89,550	6.27	561,479
2007	1,750	1,740	39.0	67,860	9.85	668,421

[1] Marketing year average.

Soybeans: Stocks by quarter, 2003-2007

Crop year	December 1		March 1		June 1		September 1	
	On farm	Off farm	On farm	Off farm	On farm	Off farm	On farm	Off farm
	1,000 bushels	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*
2003	18,000	16,900	7,300	8,200	3,200	2,200	900	685
2004	35,000	21,960	22,000	10,890	7,600	6,530	2,500	2,460
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	25,000	29,000	17,000	23,900	3,500	12,200		

Soybeans: Percentage of acreage planted, 2003-2007

Year	Month and day						
	May			June			July
	10	20	30	10	20	30	10
2003	7	18	55	83	97	100	100
2004	24	35	45	72	87	97	100
2005	34	69	90	98	100	100	100
2006	37	56	73	90	99	100	100
2007	14	36	76	96	100	100	100
5-year-average	23.3	42.5	67.8	87.9	96.5	99.4	100.0

Soybeans: Percentage of acreage setting pods, 2003-2007

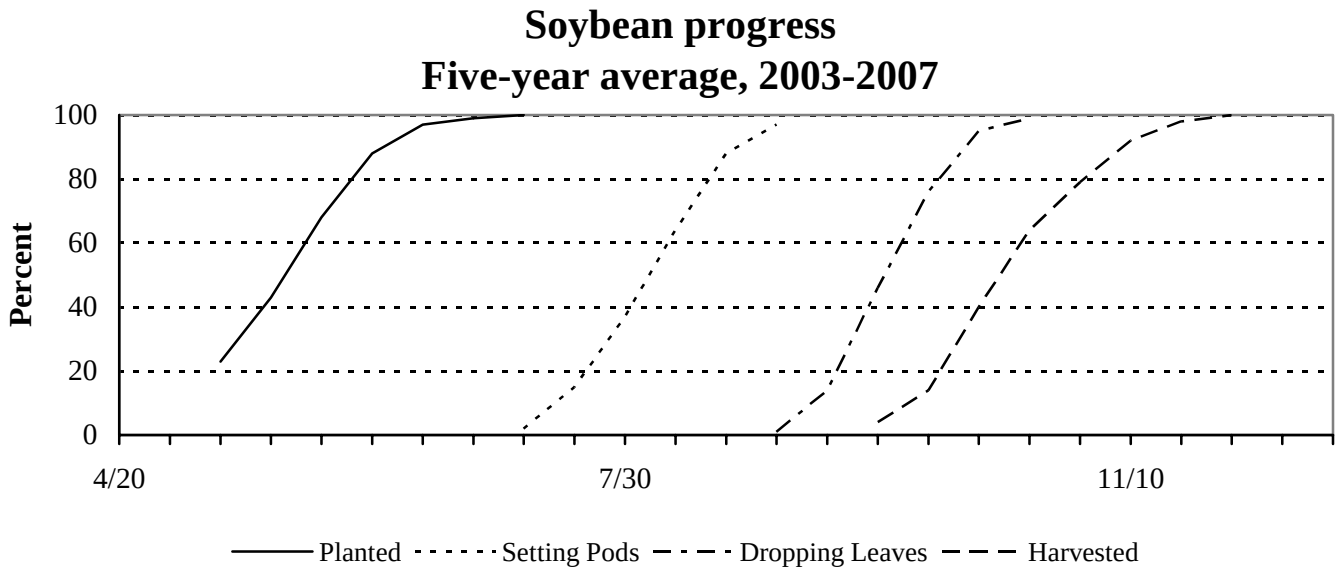
Year	Month and day					
	July			August		
	10	20	30	10	20	30
2003	0	2	16	50	82	97
2004	0	7	23	49	76	88
2005	3	22	55	83	97	100
2006	3	22	42	74	93	99
2007	4	22	48	75	97	100
5-year-average	1.9	14.9	36.8	63.5	88.4	96.6

Soybeans: Percentage of acreage shedding leaves, 2003-2007

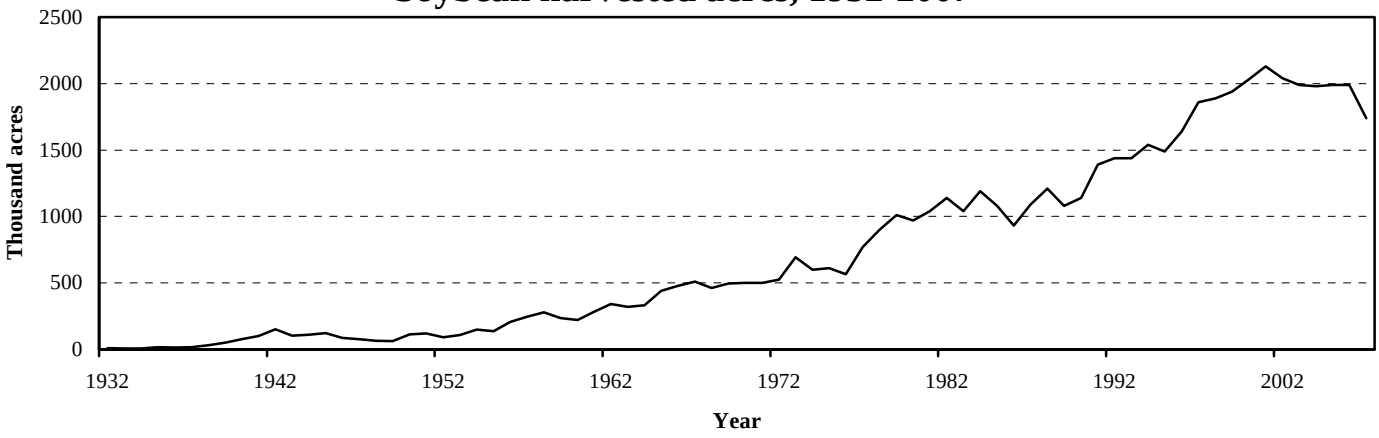
Year	Month and day						
	August		September			October	
	20	30	10	20	30	10	20
2003	0	0	5	44	80	97	100
2004	0	0	4	18	52	91	96
2005	0	3	37	82	95	100	100
2006	0	1	15	44	75	90	99
2007	0	1	10	42	76	98	100
5-year-average	0.0	1.0	14.2	46.1	75.5	95.1	99.0

Soybeans: Percentage of acreage harvested, 2003-2007

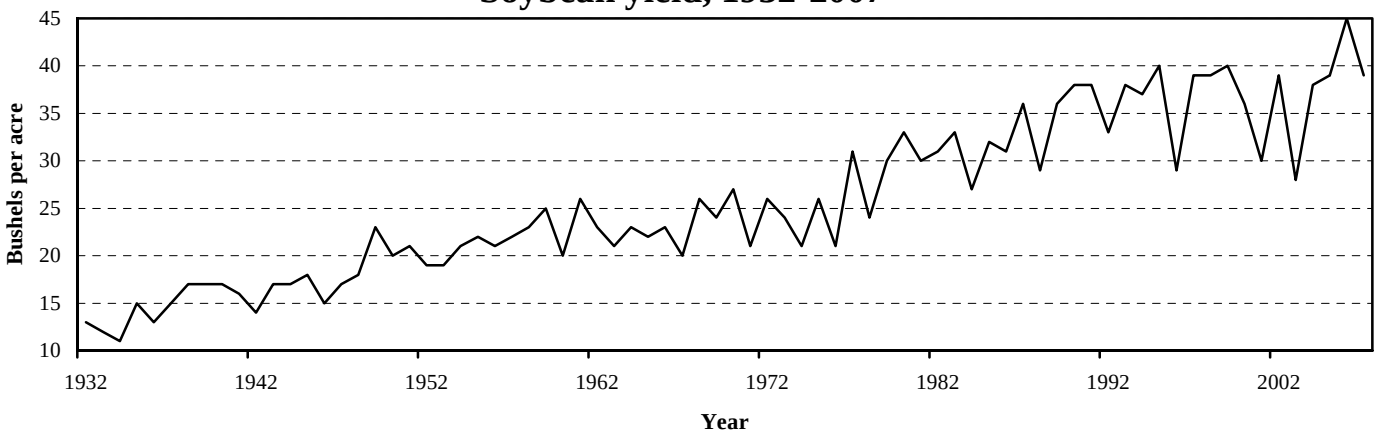
Year	Month and day								
	September			October			November		
	10	20	30	10	20	30	10	20	30
2003	0	1	7	35	72	91	97	100	100
2004	0	1	11	40	58	69	81	96	100
2005	0	11	33	69	87	93	99	100	100
2006	0	4	7	23	42	60	84	93	98
2007	0	1	10	33	60	81	96	100	100
5-year-average	0.0	3.6	13.5	40.0	63.7	78.9	91.5	97.7	99.7



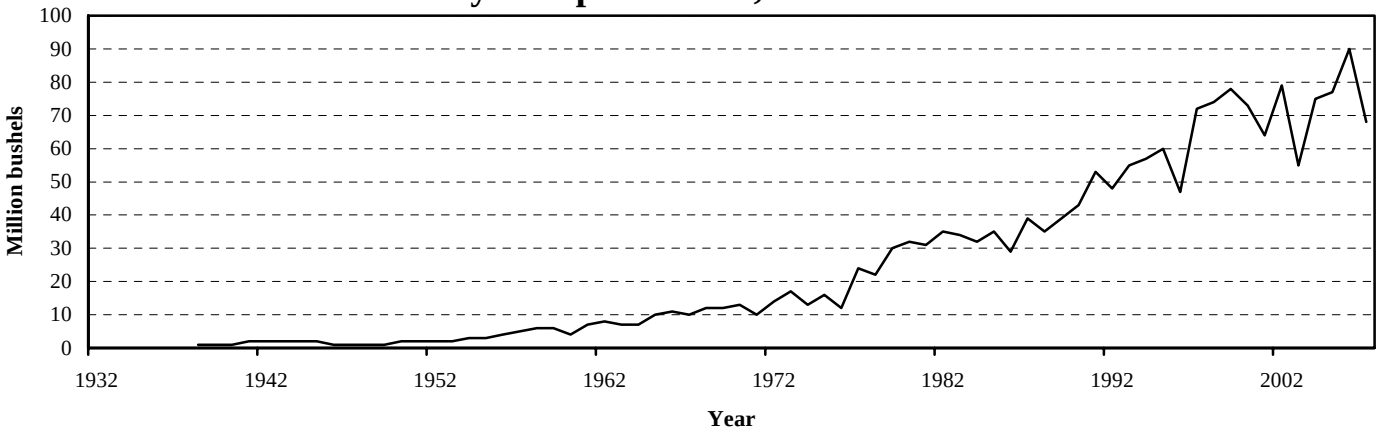
Soybean harvested acres, 1932-2007



Soybean yield, 1932-2007



Soybean production, 1932-2007



Sugarbeets

Acres planted to sugarbeets were estimated at 150,000 in 2007, down 5,000 acres from the previous year. Harvested acreage was estimated at 149,000, down from 154,000 in 2006. The yield set a new record with 23.4 tons per acre. The previous record high was 23.2 set in 2006. Even though there was a record yield, harvested acres were down and this decreased production to a total of 3.49 million tons, down 2 percent from 2006. Planting was finished by mid-May with good emergence in most fields. The unseasonably warm fall and rains in September and October added tonnage to Michigan's sugarbeet crop. Harvest was completed in early November.

Sugarbeets: Acres, yield, production, and value, 2003-2007

Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Tons*	*1,000 tons*	*Dollars*	*1,000 dollars*
2003	179	178	19.1	3,400	36.70	124,780
2004	165	163	21.1	3,439	26.40	90,790
2005	154	152	21.3	3,238	34.40	111,387
2006	155	154	23.2	3,573	39.85	142,384
2007	150	149	23.4	3,487	([2])	([2])

[1] Marketing year average.
[2] Published in February 2009.

Wheat

Michigan's 2007 winter wheat crop totaled 35.1 million bushels, a 26 percent decrease from 2006. Planted acres decreased to 560,000 acres from 660,000 the previous year. Harvested acreage was down 17 percent from last year, at 540,000 acres. The average yield, at 65 bushels per acre, was down 11 percent from last year. The value of the crop increased 16 percent to $187 million. Huron, Sanilac, Tuscola, Lenawee, and Saginaw were the top five counties in wheat production.

Winter wheat planting began in late September and progression was behind the five-year average. Due to colder and wetter conditions, emergence was behind normal. The crop over-wintered fairly well despite some damage as a result of frost. Warm temperatures and rainfall advanced crop growth, pushing development well ahead of normal. Winter wheat continued to advance well, in May, with some reports of powdery mildew and septoria. By the middle of June, heading was completed and flowering was nearly completed in many areas. Ninety-six percent of the crop was turning yellow by the first week of July, compared with a five-year average of 65 percent.

Harvest began the middle of July and concluded by the end of July due to the hot and dry weather conditions. Fields were harvested and had varying degrees of foliar diseases but had a low incidence of head scab. Overall, the crop was generally of good quality.

Wheat: Acres, yield, production, and value, 2003-2007

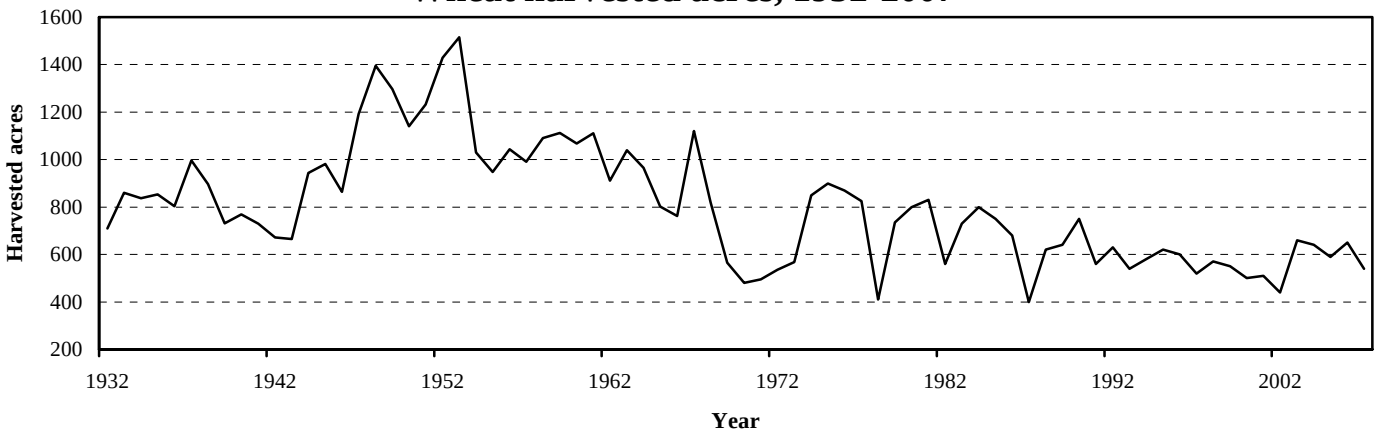
Year	Planted	Harvested	Yield	Production	Price [1]	Value of production
	1,000 acres	*1,000 acres*	*Bushels*	*1,000 bushels*	*Dollars*	*1,000 dollars*
2003	680	660	68	44,880	3.25	145,860
2004	660	640	64	40,960	3.01	123,290
2005	600	590	66	38,940	3.13	121,882
2006	660	650	73	47,450	3.41	161,805
2007	560	540	65	35,100	5.35	187,785

[1] Marketing year average.

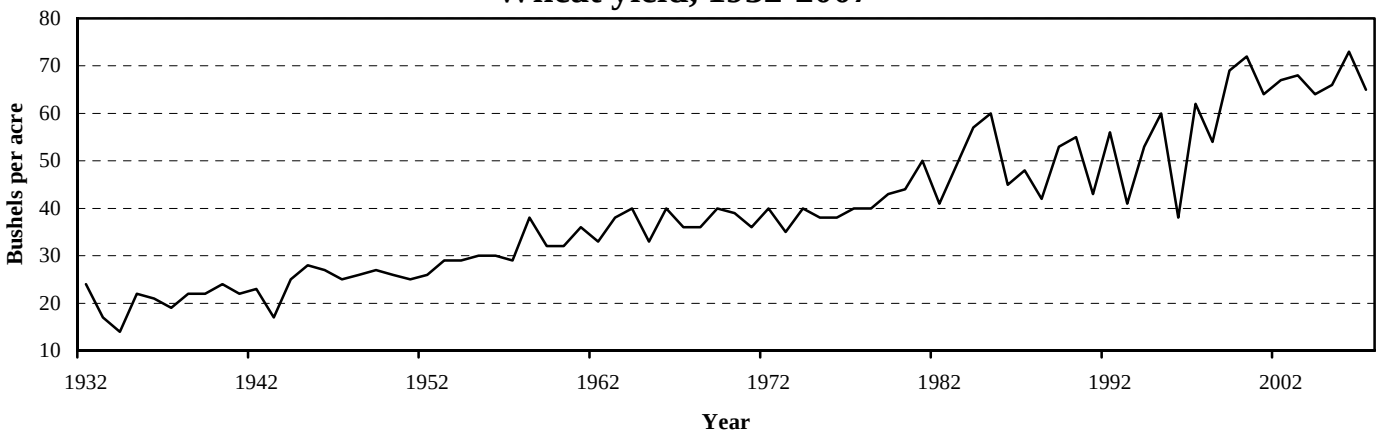
Wheat: Stocks by quarter, 2003-2007

Crop year	September 1		December 1		March 1		June 1	
	On farm	Off farm	On farm	Off farm	On farm	Off farm	On farm	Off farm
	1,000 bushels	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*	*1,000 bushels*
2003	5,000	28,430	2,800	23,050	600	15,190	300	7,310
2004	7,800	28,430	3,500	24,350	2,900	19,160	800	14,770
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	7,270

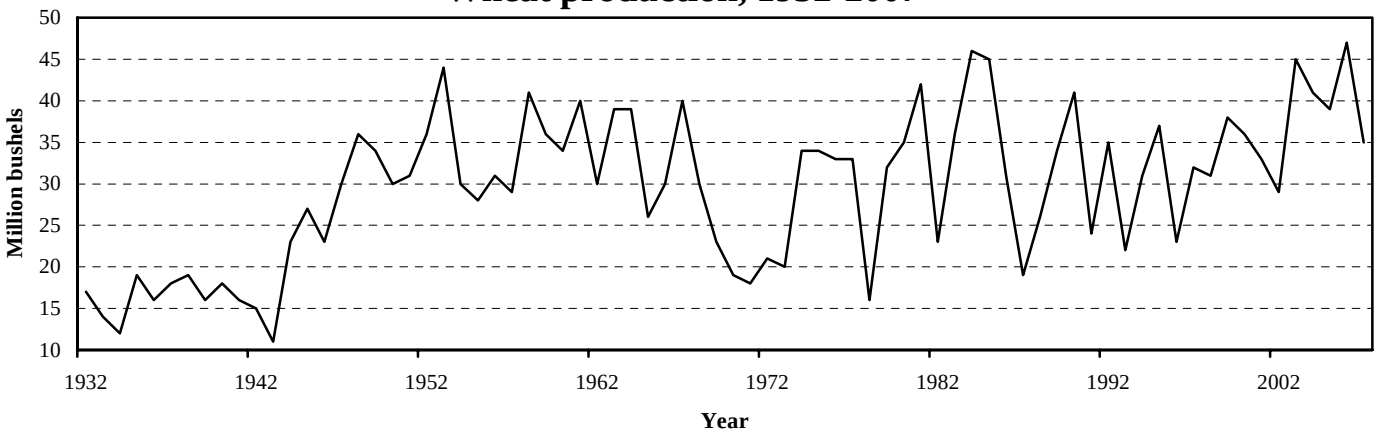
Wheat harvested acres, 1932-2007



Wheat yield, 1932-2007



Wheat production, 1932-2007



Fruit

Michigan apple production was 770 million pounds, down from 880 million pounds in 2006. The farm level value of the utilized crop was $129.0 million. Michigan ranked third in U.S. apple production behind Washington and New York, which produced 5.20 billion pounds and 1.31 billion pounds, respectively.

Tart cherry production was 196 million pounds, up from the 190 million pounds produced in 2006. The average yield was 7,630 pounds per acre. The farm level value was $50.9 million. Sweet cherry production was 27,300 tons, up from 20,000 tons produced in 2006. The average yield was 3.79 tons per acre. The farm level value was $17.7 million.

Cultivated blueberry production in Michigan was 93 million pounds, about 33 percent of the U.S. total. Growers harvested 18,500 acres in 2007. The farm level value was $165.5 million. Strawberry production in Michigan was 4.0 million pounds on 800 harvested acres. The farm level value was $4.7 million.

Michigan peach production was 41.0 million pounds, up from 37.8 million pounds in 2006. Total bearing acres were 4,200, and the farm level value was $16.3 million. Pear production in Michigan was 4,000 tons on 750 acres. The farm level value was $1.62 million. Michigan plum production was 3,100 tons on 650 acres. The farm level value was $879,000.

Michigan grape production was 100,100 tons. The farm level value was $28.0 million. There were 61,000 tons of Concords and 33,500 tons of Niagara grapes processed. There were 2,700 tons of vinifera, 1,800 tons of hybrids, and 900 tons of other varieties processed for wine. Prices for vinifera varieties averaged $1,435 per ton, hybrids $560 per ton, and other varieties $220 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	93	2007	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	40	2007	1928

Fruit: Acres harvested and value of production, 2003-2007

Item	Unit	2003	2004	2005	2006	2007
Acres harvested	1,000 acres	113	115	113	111	107
Value of production	1,000 dollars	273,349	282,894	278,759	360,765	414,486

Fruit: Acres, production, and value, 2003-2007

Fruit and Year	Bearing acres	Yield	Production		Price	Value of production
			Total	Utilized		
	Acres	*Pounds*	*Million pounds*	*Million pounds*	*Dollars per pound*	*1,000 dollars*
Apples						
2003	41,500	21,400	890	890	0.117	103,925
2004	40,500	18,000	730	730	0.123	89,780
2005	40,000	19,000	760	755	0.126	95,038
2006	38,000	23,200	880	855	0.147	125,275
2007	35,000	22,000	770	770	0.168	129,000
Blueberries [1]						
2003	15,900	3,900	62	62	1.020	63,105
2004	17,400	4,600	80	80	1.220	97,210
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
Cherries, tart						
2003	27,000	5,700	154	154	0.376	57,938
2004	27,000	5,520	149	149	0.335	49,861
2005	26,700	7,790	208	208	0.229	47,555
2006	26,400	7,200	190	180	0.192	34,697
2007	25,700	7,630	196	193	0.264	50,905
Peaches						
2003	5,000	9,400	47.0	43.0	0.181	7,790
2004	5,200	7,200	37.4	37.4	0.274	10,274
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	4,200	9,760	41.0	38.2	0.426	16,298
	Acres	*Tons*	*Tons*	*Tons*	*Dollars per ton*	*1,000 dollars*
Cherries, sweet						
2003	8,100	1.60	13,000	13,000	830	10,795
2004	8,100	3.05	24,700	24,700	660	16,311
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	7,200	3.79	27,300	27,300	649	17,709
Grapes						
2003	13,200	7.16	94,500	80,500	262	21,086
2004	13,900	4.50	62,500	58,000	236	13,690
2005	14,200	7.23	102,700	102,700	210	21,518
2006	14,200	2.29	32,500	27,500	340	9,357
2007	14,100	7.10	100,100	100,100	279	27,950
Pears						
2003	800	6.00	4,800	4,300	259	1,112
2004	800	4.33	3,460	3,400	311	1,058
2005	800	2.50	2,000	1,970	423	834
2006	800	4.50	3,600	3,500	320	1,120
2007	750	5.33	4,000	3,600	450	1,621
Plums						
2003	800	4.50	3,600	3,600	355	1,278
2004	750	3.33	2,500	2,000	353	705
2005	750	2.67	2,000	2,000	361	722
2006	700	5.14	3,600	3,400	504	1,713
2007	650	4.77	3,100	2,000	440	879

[1] Harvested acres.

Apples: End-of-month stocks in cold and controlled atmosphere storage, 2003-2007

Month	2003-04	2004-05	2005-06	2006-07	2007-08
	1,000 pounds	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*
October	438,345	336,351	351,515	383,675	322,867
November	389,636	326,921	322,792	362,253	273,629
December	316,003	268,632	261,930	323,942	217,797
January	279,373	227,805	216,048	260,604	171,502
February	222,665	185,138	158,504	211,682	122,105
March	169,470	137,500	105,340	143,579	83,984
April	87,284	81,771	68,511	87,067	38,313

Apples: Utilization and price, 2003-2007

Year	Fresh market		Processing		Total	
	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb
	Million pounds	*Dollars*	*Million pounds*	*Dollars*	*Million pounds*	*Dollars*
2003	310	0.195	580	0.075	890	0.117
2004	240	0.202	490	0.084	730	0.123
2005	265	0.210	490	0.080	755	0.126
2006	295	0.245	560	0.094	855	0.147
2007	265	0.290	505	0.104	770	0.168

Apples, processing: Utilization and price, 2003-2007

Year	Canned		Frozen and fresh slices		Juice and cider		Other	
	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb
	Million pounds	*Dollars*	*Million pounds*	*Dollars*	*Million pounds*	*Dollars*	*Million pounds*	*Dollars*
2003	190	0.088	180	0.092	200	0.048	10	0.070
2004	210	0.090	157	0.098	115	0.055	8	0.090
2005	195	0.088	147	0.095	140	0.055	8	0.090
2006	215	0.085	168	0.142	175	0.060	([1])	([1])
2007	170	0.105	190	0.124	140	0.072	([1])	([1])

[1] Not published to avoid disclosure of individual operations.

Blueberries: Utilization and price, 2003-2007

Year	Production		Fresh market		Processed	
	Total	Utilized	Quantity	Price per pound	Quantity	Price per pound
	Million lbs	*Million lbs*	*Million lbs*	*Dollars*	*Million lbs*	*Dollars*
2003	62	62	24	1.300	38	0.840
2004	80	80	36	1.600	44	0.900
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

Cherries, sweet: Production and utilization, 2003-2007

Year	Total production	Utilized production							
		Fresh		Canned		Brined		Other [1]	
		Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton
	Tons	*Tons*	*Dollars*	*Tons*	*Dollars*	*Tons*	*Dollars*	*Tons*	*Dollars*
2003	13,000	500	2,230	1,500	920	8,000	675	3,000	967
2004	24,700	500	2,020	2,870	640	18,100	617	3,230	711
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

[1] Frozen, juice, etc.

Cherries, tart: Utilization, 2003-2007

Year	Production		Fresh market	Processed					
				Canned		Frozen		Other [1]	
	Total	Utilized		Quantity	Price per pound	Quantity	Price per pound	Quantity	Price per pound
	Million lbs	*Million lbs*	*Million lbs*	*Million lbs*	*Dollars*	*Million lbs*	*Dollars*	*Million lbs*	*Dollars*
2003	154	154	0.5	53.0	0.390	95	0.370	5.5	0.317
2004	149	149	0.5	39.5	0.340	103	0.340	6.0	0.169
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

[1] Juice, wine, and dried.

Cherries, tart: Production by region, 2003-2007

Region	2003	2004	2005	2006	2007
	Million pounds	*Million pounds*	*Million pounds*	*Million pounds*	*Million pounds*
Northwest	98	88	129	115	134
West Central	37	37	64	49	53
Southwest and other	19	24	15	26	9
Michigan	154	149	208	190	196

Cherries, tart, frozen: Stocks in cold storage, 2004-2007

Month	East North Central region [1]				48 States total [2]			
	2004-05	2005-06	2006-07	2007-08	2004-05	2005-06	2006-07	2007-08
	1,000 pounds	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*	*1,000 pounds*
July	61,428	114,768	122,154	135,923	80,072	136,042	137,736	168,436
August	75,027	118,997	115,591	125,752	93,985	150,216	143,082	158,643
September	81,990	111,371	107,942	121,898	99,862	139,969	133,717	153,812
October	76,405	105,240	101,127	112,606	92,953	131,846	123,486	142,039
November	66,474	97,377	93,505	104,719	81,816	117,828	112,606	132,845
December	59,699	92,220	89,022	99,014	76,570	110,359	110,361	126,646
January	52,659	85,006	80,445	91,603	74,505	102,319	97,425	117,609
February	50,014	77,281	73,593	86,533	69,829	92,935	88,896	109,423
March	41,662	66,486	64,283	82,236	56,106	78,660	76,170	100,479
April	35,580	60,926	55,544	72,708	47,832	71,560	66,958	87,495
May	28,951	52,818	45,509	63,661	39,172	61,316	58,337	75,690
June	21,786	42,339	36,519	53,119	27,701	47,806	48,989	63,055

[1] Illinois, Indiana, Michigan, Ohio, and Wisconsin.
[2] Excluding Alaska and Hawaii.

Grapes: Processed utilization and value, 2003-2007

Year	Concord	Niagara	Other	Total		
				Utilized production	Price per ton	Value
	Tons	*Tons*	*Tons*	*Tons*	*Dollars*	*1,000 dollars*
2003	51,000	27,000	2,000	80,000	259	20,686
2004	34,900	19,400	3,200	57,500	231	13,290
2005	66,500	31,000	4,500	102,000	205	20,958
2006	15,350	8,100	3,950	27,400	336	9,197
2007	61,000	33,500	4,500	99,000	255	25,200

Grapes: Processed for wine by category, 2003-2007

Year	Hybrids		Vinifera		Other		Total		
	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Value of production
	Tons	*Dollars*	*Tons*	*Dollars*	*Tons*	*Dollars*	*Tons*	*Dollars*	*1,000 dollars*
2003	900	600	1,050	1,200	50	200	2,000	905	1,810
2004	970	520	1,950	1,185	280	180	3,200	895	2,864
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	5,080

Peaches: Utilization and value, 2003-2007

Year	Fresh Market			Processing		
	Production	Price per pound	Value of production	Production	Price per ton	Value of production
	Million lbs	*Dollars*	*1,000 dollars*	*Tons*	*Dollars*	*1,000 dollars*
2003	25.0	0.200	5,000	9,000	310	2,790
2004	25.0	0.330	8,250	6,200	326	2,024
2005	14.0	0.390	5,460	7,000	360	2,522
2006	22.7	0.430	9,761	7,350	450	3,305
2007 [1]						

[1] Not published to avoid disclosure of individual operations.

Plums: Utilization and value, 2003-2007

Year	Fresh Market			Processing		
	Production	Price per ton	Value of production	Production	Price per ton	Value of production
	Tons	*Dollars*	*1,000 dollars*	*Tons*	*Dollars*	*1,000 dollars*
2003	1,100	480	528	2,500	300	750
2004	350	769	269	1,650	264	436
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

Strawberries: Acres, production and value, 2003-2007

Year	Total	Harvested	Yield	Production	Price per cwt	Value of production
	Acres	*Acres*	*Cwt*	*1,000 cwt*	*Dollars*	*1,000 dollars*
2003	1,200	1,100	57	63	100.00	6,320
2004	1,100	900	46	41	97.70	4,005
2005	1,100	1,000	52	52	93.80	4,878
2006	1,000	850	65	55	114.00	6,285
2007	950	800	50	40	117.00	4,668

Strawberries: Utilization and value, 2003-2007

Year	Fresh Market			Processing		
	Production	Price per cwt	Value of production	Production	Price per cwt	Value of production
	1,000 cwt	*Dollars*	*1,000 dollars*	*1,000 cwt*	*Dollars*	*1,000 dollars*
2003	58	105	6,090	5	46.00	230
2004	36	105	3,780	5	45.00	225
2005	47	99	4,653	5	45.00	225
2006	52	118	6,136	3	49.50	149
2007	38	120	4,560	2	54.00	108

Refrigerated warehouses: Number and capacity, October 1, 2007 [1]

Type	Number	Usable freezer space	Usable cooler space	Controlled atmosphere
		1,000 cu ft	*1,000 cu ft*	*1,000 bushels*
Apple	153		26,185	6,251
General-public	24	50,511	6,193	
General-private and semi-private	23	15,215	4,651	

[1] Conducted biennially.

Vegetables

Michigan vegetable growers produced 763,820 tons of fresh and processed vegetables in 2007. Harvested acreage was 110,100. Value of production totaled $211 million. Nationally, Michigan ranked ninth and fifth, respectively for fresh market and processing vegetable value of production.

Michigan farmers produced 7.77 million hundredweight (cwt) of fresh market vegetables, a decrease of 10 percent from 2006. Processing vegetable production totaled 375,170 tons. Vegetable planting activities progressed steadily for much of the State through mid June. Planting and transplanting continued in June with cool conditions and little precipitation. The emergence and growth for many vegetable crops was slowed due to the colder than normal temperatures and light frosts experienced in May. The drought during the summer of 2007 caused many crops to become stressed and had an adverse affect on yields, resulting in lower supplies.

Michigan ranked third among States for dual purpose asparagus production with 235,000 cwt produced, down 9 percent from last year's 257,000 cwt. Spears began to emerge in some parts of the State in late April. The crop did not exhibit any severe damage from winter weather conditions. Harvest began on a limited basis at the beginning of May and continued on schedule for the remainder of the month. The extended period of warm weather in June matured the crop quickly with harvest nearing completion by the middle of the month for most growers. Yields were average but the quality was excellent.

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	3.89	1998	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	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	180,900	2003	8,900	1932	
Onions						
Harvested	1,000 acres	12.7	1935	2.5	2007	1928
Yield	Cwt	350	1960	120	1935	
Production	1,000 cwt	2,833	1948	650	2006,2007	
Tomatoes (fresh market)						
Harvested	1,000 acres	9.4	1943	1.8	2001	1928
Yield	Cwt	260	2004	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	38.0	2003	2.7	1943	
Production	Tons	205,000	1982	5,000	1921	

Vegetables: Acres harvested and value of production, 2003-2007

Item	Unit	2003	2004	2005 [1]	2006	2007
Acres harvested	1,000 acres	117	121	107	111	110
Value of production	1,000 dollars	226,812	232,401	186,062	217,653	210,886

[1] Processing tomatoes excluded to avoid disclosure of individual operations.

Principal vegetables, fresh market: Acres, production, and value, 2003-2007

Year	Planted	Harvested	Production	Value
	Acres	*Acres*	*1,000 cwt*	*1,000 dollars*
2003	71,100	64,200	9,854	170,366
2004	68,400	64,000	9,611	175,899
2005	59,200	55,200	8,884	146,330
2006	58,400	54,800	8,644	161,416
2007	56,400	53,100	7,773	148,867

Principal vegetables, processing: Acres, production, and value, 2003-2007

Year	Planted	Harvested	Production	Value
	Acres	*Acres*	*Tons*	*1,000 dollars*
2003	53,900	52,700	389,710	56,446
2004	57,700	56,600	374,780	56,502
2005 [1]	53,300	51,400	275,540	39,732
2006	58,100	56,300	393,270	56,237
2007	58,400	57,000	375,170	62,019

[1] Processing tomatoes excluded to avoid disclosure of individual operations.

Vegetables, processing: Acres, production, and value, 2003-2007

Item and Year	Planted	Harvested	Yield	Production	Price per ton	Value
	Acres	*Acres*	*Tons*	*Tons*	*Dollars*	*1,000 dollars*
Carrots						
2003	1,700	1,600	24.00	38,400	69.00	2,650
2004	1,400	1,300	25.00	32,500	62.00	2,015
2005	2,300	2,200	26.00	57,200	62.00	3,546
2006	1,800	1,700	23.00	39,100	74.00	2,893
2007	1,500	1,400	20.00	28,000	76.00	2,128
Cucumbers						
2003	34,000	33,500	5.40	180,900	200.00	36,180
2004	35,000	34,500	5.00	172,500	205.00	35,363
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	30,000	29,500	5.30	156,350	230.00	35,961
Snap beans						
2003	14,800	14,300	3.15	45,010	160.00	7,208
2004	17,700	17,300	3.54	61,280	169.00	10,335
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	23,500	22,800	3.45	78,620	176.00	13,832
Tomatoes						
2003	3,400	3,300	38.00	125,400	83.00	10,408
2004	3,600	3,500	31.00	108,500	81.00	8,789
2005 [1]						
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

[1] Estimates not published to avoid disclosure of individual operations.

Vegetables, fresh market: Acres, production, and value, 2003-2007

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value [1]
	Acres	*Acres*	*Cwt*	*1,000 cwt*	*Dollars*	*1,000 dollars*
Beans, snap						
2003	4,300	4,000	40	160	25.00	4,000
2004	4,400	4,100	45	185	45.00	8,325
2005	4,300	4,100	55	226	60.00	13,560
2006	4,000	3,600	55	198	40.00	7,920
2007	3,900	3,600	40	144	65.00	9,360
Cabbage						
2003	2,000	1,800	320	576	10.00	5,760
2004	1,800	1,600	270	432	12.00	5,184
2005	1,800	1,700	360	612	8.50	5,202
2006	1,900	1,800	340	612	12.10	7,405
2007	1,800	1,700	320	544	15.00	8,160
Carrots						
2003	4,400	4,200	350	1,470	13.10	19,257
2004	4,400	4,200	310	1,302	12.20	15,884
2005	3,100	3,000	360	1,080	14.00	15,120
2006	2,900	2,500	320	800	18.00	14,400
2007	2,900	2,800	300	840	15.80	13,272
Corn, sweet						
2003	11,000	9,500	90	855	16.60	14,193
2004	10,500	9,500	75	713	19.50	13,904
2005	9,000	8,000	100	800	20.00	16,000
2006	9,000	8,300	110	913	18.00	16,434
2007	9,500	8,500	85	723	19.80	14,315
Cucumbers						
2003	7,300	6,400	160	1,024	20.40	20,890
2004	7,500	7,400	175	1,295	17.20	22,274
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
Onions						
2003	3,700	3,600	320	1,152	14.50	13,369
2004	3,500	3,400	290	986	8.60	8,521
2005	3,000	2,900	260	754	13.00	7,852
2006	2,700	2,600	250	650	14.60	7,592
2007	2,600	2,500	260	650	11.10	5,772
Tomatoes						
2003	2,300	2,200	220	484	34.00	16,456
2004	2,200	2,100	260	546	48.00	26,208
2005	2,000	2,000	220	440	38.00	16,720
2006	2,000	2,000	230	460	50.00	23,000
2007	2,100	2,100	230	483	49.00	23,667

[1] Value of sales for onions.

Vegetables, dual purpose: Acres, production, and value, 2003-2007

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value
	Acres	*Acres*	*Cwt*	*1,000 cwt*	*Dollars*	*1,000 dollars*
Asparagus						
2003	16,000	15,000	21	317	60.80	19,278
2004	15,000	13,500	20	270	64.70	17,468
2005	12,700	12,200	19	232	51.80	12,006
2006	12,200	11,700	22	257	57.80	14,866
2007	11,700	11,200	21	235	65.60	15,417
Celery						
2003	2,300	2,200	530	1,166	15.10	17,641
2004	2,300	2,200	560	1,232	12.30	15,215
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	1,800	515	927	13.20	12,271
Peppers, bell						
2003	1,800	1,800	250	450	22.00	9,900
2004	1,800	1,800	290	522	26.00	13,572
2005	1,500	1,400	280	392	23.00	9,016
2006	1,400	1,300	270	351	26.00	9,126
2007	1,200	1,200	260	312	33.00	10,296
Pumpkins						
2003	8,500	7,300	140	1,022	14.00	14,308
2004	7,800	7,200	140	1,008	13.00	13,104
2005	6,000	5,200	145	754	12.00	9,048
2006	6,200	5,700	150	855	11.00	9,405
2007	5,700	5,000	115	575	12.00	6,900
Squash						
2003	7,500	6,200	190	1,178	13.00	15,314
2004	7,200	7,000	160	1,120	14.50	16,240
2005	8,600	7,900	220	1,738	9.40	16,337
2006	8,700	8,400	210	1,764	8.50	14,994
2007	8,000	7,800	190	1,482	9.50	14,079

Asparagus: Utilization and value, 2003-2007

Year	Fresh market			Processing		
	Production	Price per cwt	Value of production	Production	Price per ton	Value of production
	1,000 cwt	*Dollars*	*1,000 dollars*	*Tons*	*Dollars*	*1,000 dollars*
2003	43	66.00	2,838	13,700	1,200	16,440
2004	26	90.00	2,340	12,200	1,240	15,128
2005	58	63.00	3,654	8,700	960	8,352
2006	31	64.00	1,984	11,300	1,140	12,882
2007 [1]						

[1] Estimates not published to avoid disclosure of individual operations.

U.S. Pickle stocks in tanks, barrels, and fresh pack, December 1, 2003-2007

Year	From current year crop			From previous year crop		Total stocks
	Salt stock including dill	Fresh pack	Refrigerated	Salt stock including dill	Fresh pack	
	Tons	*Tons*	*Tons*	*Tons*	*Tons*	*Tons*
2003	210,291	57,695	44,628	13,259	27,700	353,573
2004	168,553	55,474	1,638	14,979		240,644
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

Horticulture

Michigan placed third nationally in value of wholesale sales of floriculture products in 2007. Only California and Florida reported larger sales than Michigan. Reports from Michigan's 628 commercial growers ($10,000 or more in gross sales) showed an estimated wholesale value of $382 million for all surveyed floriculture crops, up 0.5 percent from last year's revised figure. This estimate includes summarized sales data as reported by growers with $100,000 or more in sales plus a calculated wholesale value of sales for operations with sales from $10,000 to $99,999.

The leading crop category breakdowns for Michigan operations with more than $100,000 in sales were:

- First, annual bedding/garden plants with $193 million in sales.
- Second, propagative materials with $79 million in sales.
- Third, herbaceous perennial plants with $46 million in sales.
- Fourth, potted flowering plants with $35 million in sales.

Michigan led the nation in value of sales for 14 floriculture crops:

- Impatiens (flats) with 2.2 million flats sold, valued at $15.6 million.
- Petunias (flats) with 1.5 million flats sold, valued at $11.2 million.
- Begonia Hanging Baskets with 442,000 baskets sold, valued at $2.3 million.
- Geranium Hanging Baskets (cuttings) with 784,000 baskets sold, valued at $5.2 million.
- Geranium (seed) Hanging Baskets with 81,000 baskets sold, valued at $458,000.
- Impatiens Hanging Baskets with 722,000 sold, valued at $3.5 million.
- New Guinea Impatiens Hanging Baskets with 714,000 baskets sold, valued at $4.5 million.
- Pansy/Viola Hanging Baskets with 144,000 baskets sold, valued at $740,000.
- Petunias Hanging Baskets with 803,000 baskets sold, valued at $4.3 million.
- Potted Geraniums (cuttings) with 4.3 million pots sold, valued at $11.0 million.
- Potted Geraniums (seed) with 18.3 million pots sold, valued at $14.5 million.
- Potted New Guinea Impatiens with 4.4 million pots sold, valued at $6.7 million.
- Potted Petunias with 2.3 million pots sold, valued at $4.2 million.
- Potted Spring Flowering Bulbs with 5.9 million pots sold, valued at $12.3 million.

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

- Begonias (flats) with 834,000 flats sold, valued at $6.1 million.
- Geraniums (cuttings) with 107,000 flats sold, valued at $1.1 million.
- Marigolds (flats) with 772,000 flats sold, valued at $5.7 million.
- Other Flowering and Foliar Plants (flats) with 3.5 million flats sold, valued at $26.2 million.
- Vegetable Type Plants (flats) with 829,000 flats sold, valued at $6.2 million.
- Other Flowering and Foliar Hanging Baskets with 2.4 million baskets sold, valued at $ 16.5 million.
- Potted Hardy/Garden Chrysanthemums with 4.8 million pots sold, valued at $13.0 million.
- Potted Hostas with 1.7 million pots sold, valued at $4.5 million
- Potted Easter Lilies with 1.1 million pots sold, valued at $4.5 million.

Floriculture crops: Number of growers by gross value of sales, 2003-2007

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
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
2003	58	96	47	188	220	134	743
2004	49	89	46	182	216	139	721
2005	46	94	41	173	203	140	697
2006	60	83	42	154	193	139	671
2007	39	77	43	155	176	138	628

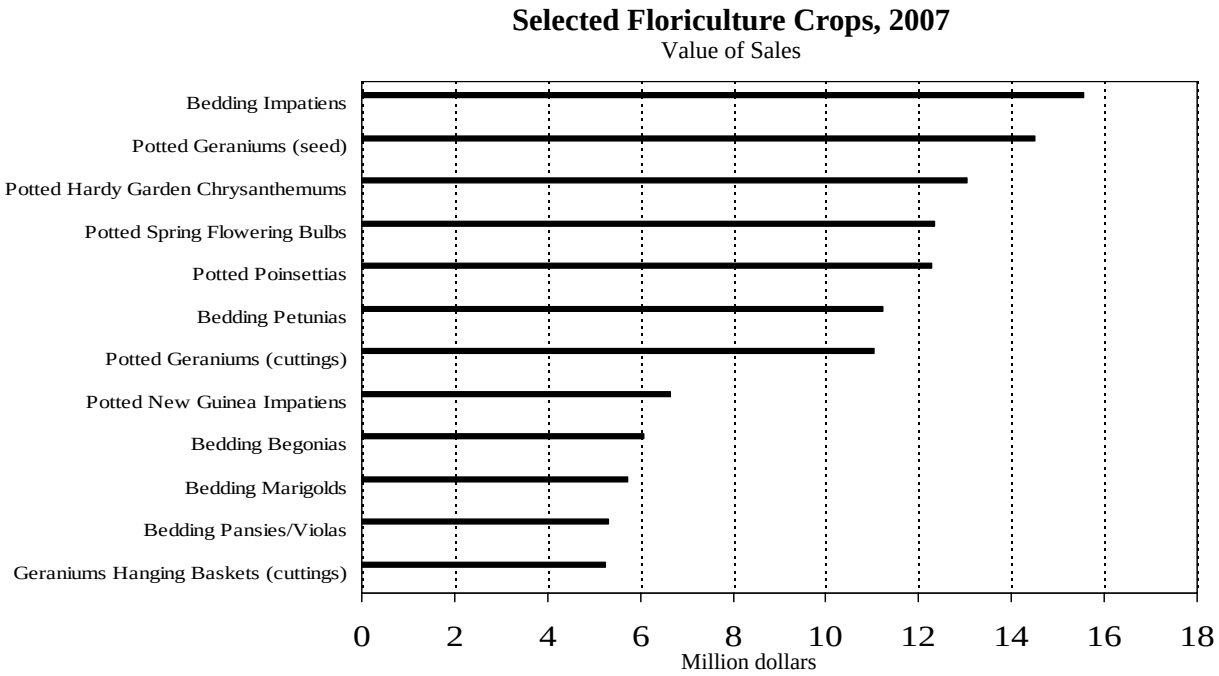
Floriculture crops: Growing area by type of cover, 2003-2007

Year	Glass greenhouses	Fiberglass and other rigid greenhouses	Plastic film greenhouses	Total greenhouse cover	Shade and temporary cover	Total covered area	Open ground
	1,000 square feet	*1,000 square feet*	*1,000 square feet*	*1,000 square feet*	*1,000 square feet*	*1,000 square feet*	*Acres*
2003	4,657	4,191	37,424	46,272	1,569	47,841	3,237
2004	4,549	4,616	38,692	47,857	1,353	49,210	4,687
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	3,807	4,575	37,902	46,284	1,023	47,307	3,409

Floriculture crops: Wholesale value of sales by category, 2003-2007

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 [1]
	1,000 dollars	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
2003	8,797	32,400	3,375	230,322	322,980	342,190
2004	8,711	32,074	4,152	238,508	365,897	384,655
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	7,484	35,183	5,280	239,182	366,602	382,457

[1] 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.



Bedding plants: Producers, quantity sold, price, and value, 2003-2007

Item	Producers	Quantity sold	Percent of sales at wholesale	Wholesale price	Value of sales at wholesale
	Number	*1,000 flats*	*Percent*	*Dollars*	*1,000 dollars*
Begonias					
2003	227	1,026	82	6.66	6,833
2004	232	1,114	81	7.12	7,932
2005	225	1,350	86	7.18	9,693
2006	218	922	86	7.51	6,924
2007	204	834	86	7.27	6,063
Geraniums from cuttings					
2003	18	57	20	11.37	648
2004	16	67	33	15.24	1,021
2005	([1])	([1])	([1])	([1])	([1])
2006	13	185	72	7.91	1,463
2007	12	107	40	10.08	1,079
Geraniums from seed					
2003	40	83	77	10.86	901
2004	32	73	74	11.41	833
2005	35	60	83	11.32	679
2006	33	55	87	11.80	649
2007	25	52	84	12.31	640
Impatiens					
2003	238	2,383	86	6.85	16,324
2004	235	2,302	86	7.01	16,137
2005	221	2,063	85	7.41	15,287
2006	224	2,128	86	7.17	15,258
2007	213	2,156	87	7.22	15,556
Marigolds					
2003	231	823	87	6.77	5,572
2004	234	814	87	7.08	5,763
2005	227	772	84	7.34	5,666
2006	227	753	85	7.31	5,504
2007	213	772	85	7.40	5,713
New Guinea Impatiens					
2003	28	137	80	7.86	1,077
2004	21	65	49	10.01	651
2005	23	78	84	10.67	832
2006	22	71	85	10.23	726
2007	([1])	([1])	([1])	([1])	([1])
Pansies/Violas					
2003	216	920	91	6.57	6,044
2004	218	882	91	6.77	5,971
2005	206	804	88	7.03	5,652
2006	203	813	87	6.85	5,569
2007	188	745	89	7.11	5,297
Petunias					
2003	252	1,641	85	6.85	11,241
2004	256	1,644	86	7.05	11,590
2005	248	1,557	85	7.41	11,537
2006	239	1,592	86	7.48	11,908
2007	225	1,515	87	7.42	11,241
Other flowering and foliar					
2003	244	4,403	85	6.85	30,161
2004	246	3,917	85	7.26	28,437
2005	242	3,673	85	7.67	28,172
2006	232	3,956	88	7.64	30,224
2007	222	3,476	88	7.54	26,209
Vegetables [2]					
2003	181	506	78	6.93	3,507
2004	186	569	80	7.33	4,171
2005	182	630	74	8.16	5,141
2006	188	644	73	7.98	5,139
2007	170	829	82	7.42	6,151

[1] Not published to avoid disclosure of individual operations.
[2] Does not include vegetable transplants grown for commercial use.

Hanging baskets: Producers, quantity sold, price, and value, 2003-2007

Item	Producers	Quantity sold	Percent of sales at wholesale	Wholesale price	Value of sales at wholesale
	Number	*1,000 baskets*	*Percent*	*Dollars*	*1,000 dollars*
Begonias					
2003	165	348	87	5.94	2,067
2004	165	394	86	5.78	2,277
2005	169	435	86	5.63	2,449
2006	166	473	89	5.62	2,658
2007	164	442	88	5.31	2,347
Geraniums from cuttings					
2003	222	826	84	6.53	5,394
2004	212	784	83	6.56	5,143
2005	213	717	81	6.69	4,797
2006	210	734	81	6.73	4,940
2007	206	784	77	6.68	5,237
Geraniums from seed					
2003	27	47	91	6.30	296
2004	25	59	95	5.75	339
2005	29	68	97	6.19	421
2006	23	71	98	5.98	425
2007	26	81	98	5.66	458
Impatiens					
2003	200	496	84	5.28	2,619
2004	198	472	82	5.23	2,469
2005	200	551	86	5.09	2,805
2006	186	655	89	5.28	3,458
2007	183	722	91	4.86	3,509
Marigolds					
2003	([1])	([1])	([1])	([1])	([1])
2004	([1])	([1])	([1])	([1])	([1])
2005	3	2	100	4.98	10
2006	6	12	100	3.31	40
2007	([1])	([1])	([1])	([1])	([1])
New Guinea Impatiens					
2003	224	770	87	6.75	5,198
2004	221	813	90	6.37	5,179
2005	218	804	90	6.22	5,001
2006	215	713	90	6.52	4,649
2007	205	714	92	6.28	4,484
Pansies/Violas					
2003	36	49	89	5.52	270
2004	30	46	86	5.24	241
2005	35	85	95	4.80	408
2006	38	108	91	4.57	494
2007	42	144	96	5.14	740
Petunias					
2003	196	469	85	5.80	2,720
2004	197	517	86	5.25	2,714
2005	193	545	83	5.49	2,992
2006	190	784	90	5.90	4,626
2007	196	803	89	5.35	4,296
Other flowering					
2003	197	1,780	86	5.91	10,520
2004	208	1,968	83	6.10	12,005
2005	204	2,098	84	6.05	12,693
2006	197	2,201	88	6.31	13,888
2007	199	2,380	87	6.93	16,493
Foliage					
2003	61	213	92	4.81	1,025
2004	65	430	93	4.42	1,901
2005	62	273	91	4.81	1,313
2006	68	333	89	4.51	1,502
2007	60	187	83	5.41	1,012

[1] Not published to avoid disclosure of individual operations.

Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 2003-2007

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	
	Number	*1,000 pots*	*1,000 pots*	*1,000 pots*	*Percent*	*Dollars*	*Dollars*	*1,000 dollars*
Azaleas								
2003	23	([1])	89	89	85	([1])	7.50	667
2004	24	([1])	93	93	87	([1])	7.82	727
2005	20	([1])	68	68	87	([1])	7.60	517
2006	22	([1])	77	77	89	([1])	7.27	560
2007	20	([1])	56	56	88	([1])	7.25	406
Begonias								
2003	87	563	145	708	90	1.51	2.55	1,220
2004	96	637	213	850	88	1.05	2.48	1,197
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	1,063	209	1,272	92	0.71	2.63	1,304
Chrysanthemums, florist								
2003	31	49	465	514	98	1.62	2.61	1,293
2004	32	35	204	239	75	1.64	3.99	871
2005	24	28	262	290	89	1.71	5.99	1,617
2006	27	38	173	211	85	1.54	3.55	673
2007	23	([1])	255	255	87	([1])	2.53	646
Chrysanthemums, hardy garden								
2003	124	370	4,461	4,831	94	1.69	1.70	8,209
2004	134	929	4,746	5,675	95	1.50	2.02	10,980
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	126	701	4,082	4,783	94	1.11	3.00	13,024
Easter Lilies								
2003	43	([1])	1,296	1,296	97	([1])	3.58	4,633
2004	38	91	1,290	1,381	97	1.72	3.66	4,878
2005	39	([1])	1,267	1,267	98	([1])	3.62	4,580
2006	43	([1])	1,168	1,168	97	([1])	3.88	4,530
2007	36	([1])	1,144	1,144	98	([1])	3.90	4,459
Geraniums from cuttings								
2003	223	3,574	1,333	4,907	69	1.73	3.30	10,582
2004	231	3,739	1,448	5,187	70	1.74	3.60	11,719
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	211	2,898	1,359	4,257	69	1.89	4.09	11,036
Geraniums from seed								
2003	111	13,528	([1])	13,528	97	0.85	([1])	11,472
2004	109	16,726	([1])	16,726	98	0.81	([1])	13,565
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	18,325	9	18,334	99	0.79	3.03	14,504
Impatiens								
2003	52	408	176	584	96	1.41	1.98	924
2004	63	732	353	1,085	94	0.91	2.03	1,383
2005	69	554	111	665	95	0.84	3.10	809
2006	54	584	89	673	95	0.75	4.31	822
2007	57	713	236	949	91	0.71	1.80	931
Marigolds								
2003	19	59	60	119	97	0.77	1.63	143
2004	28	113	171	284	98	0.85	1.84	411
2005	24	113	82	195	97	0.76	1.63	220
2006	17	([1])	223	223	98	([1])	1.77	394
2007	22	207	230	437	97	0.43	2.40	641
New Guinea Impatiens								
2003	179	3,845	357	4,202	92	1.28	3.90	6,314
2004	199	3,642	343	3,985	94	1.27	3.64	5,874
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	4,001	399	4,400	95	1.33	3.35	6,658

See footnote(s) at end of table.

--continued

Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 2003-2007 (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	
	Number	*1,000 pots*	*1,000 pots*	*1,000 pots*	*Percent*	*Dollars*	*Dollars*	*1,000 dollars*
Pansies/Violas								
2003	45	220	417	637	97	0.82	1.97	1,002
2004	50	873	235	1,108	98	0.46	2.17	912
2005	59	901	313	1,214	98	0.44	2.82	1,279
2006	49	1,712	([1])	1,712	98	1.14	([1])	1,952
2007	49	1,242	743	1,985	99	0.46	2.20	2,206
Petunias								
2003	76	619	803	1,422	92	1.49	1.99	2,520
2004	98	1,113	1,240	2,353	92	1.25	2.46	4,442
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	89	1,355	991	2,346	92	0.88	3.00	4,165
Poinsettias								
2003	84	958	2,770	3,728	90	1.65	4.21	13,242
2004	86	841	2,696	3,537	93	1.83	4.18	12,808
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	472	2,249	2,721	92	2.07	5.03	12,290
Roses, florist								
2003	9	([1])	64	64	94	([1])	3.61	231
2004	6	79	([1])	79	96	3.20	([1])	253
2005	13	([1])	54	54	88	([1])	3.86	209
2006	18	76	([1])	76	93	3.85	([1])	293
2007	15	([1])	36	36	85	([1])	6.05	218
Flowering bulbs								
2003	40	901	1,398	2,299	99	2.07	3.32	6,506
2004	41	751	1,531	2,282	98	1.46	3.21	6,011
2005	40	6,921	([1])	6,921	100	1.25	([1])	8,679
2006	42	7,472	([1])	7,472	100	1.29	([1])	9,669
2007	35	5,912	([1])	5,912	100	2.09	([1])	12,327
Other flowering plants								
2003	54	1,554	801	2,355	89	1.18	3.87	4,934
2004	58	1,500	468	1,968	84	1.80	4.21	4,670
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	36	449	281	730	88	1.78	5.15	2,246
Other flowering and foliar type bedding plants								
2003	137	12,733	4,296	17,029	92	1.38	3.10	30,889
2004	147	16,780	3,068	19,848	91	1.01	3.21	26,796
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	140	14,330	3,118	17,448	87	1.40	4.05	32,690
Vegetable type [2]								
2003	91	1,241	206	1,447	85	0.79	2.10	1,413
2004	93	3,129	343	3,472	94	0.54	1.97	2,365
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	90	3,349	442	3,791	91	0.66	2.38	3,262

[1] Pot sizes have been combined into category with greatest production to avoid disclosure of individual operations.
[2] Does not include vegetable transplants grown for commercial use.

Herbaceous perennials: Producers, quantity sold, price, and value, 2003-2007

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	
	Number	*1,000 pots*	*1,000 pots*	*1,000 pots*	*1,000 pots*	*percent*	*Dollars*	*Dollars*	*Dollars*	*1,000 dollars*
Hosta										
2003	126	825	1,020	69	1,914	90	2.49	3.64	5.85	6,171
2004	124	676	711	94	1,481	88	2.01	3.58	5.26	4,399
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	99	957	703	36	1,696	92	1.76	3.67	6.17	4,486
Other										
2003	153	15,220	5,377	356	20,953	92	1.11	3.53	6.12	38,054
2004	147	9,780	6,824	741	17,345	90	1.40	3.42	6.15	41,587
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	122	8,704	5,872	222	14,798	89	0.94	3.21	5.98	28,358

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 [1]	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 [2]	Million eggs	2,563	2007	1,104	1929	1924
Hogs and pigs [1]	1,000 head	1,397	1943	512	1934	1867
Honey	1,000 pounds	11,780	1939	3,960	2006	1921
Milk	Million pounds	7,598	2007	3,941	1927	1924
Sheep	1,000 head	3,100	1867	62	1999	1867
Wool	1,000 pounds	8,424	1934	420	2006,2007	1934

[1] December 1.
[2] December 1 previous year to November 30.

Cattle and Calves

The January 1, 2008, Michigan cattle herd totaled 1.07 million head, up 10,000 head from a year ago. The milk cow inventory, at 344,000 head, was up 17,000 from the previous year. Milk cow replacement heifers were up 2,000 at 137,000. Beef cows, at 106,000 head, were down 2 percent from last year. Calves on hand were at 196,000, down 17,000 from last year. Beef cow replacement heifers, at 31,000 head, were down 2,000 head. The 2007 calf crop was 375,000 head, up 10,000 from the previous year. Steer numbers were up 5,000 at 195,000 head. Other heifers increased to 45,000 from 37,000, while bulls, at 16,000 head, were down 1,000 from last year. Cattle on full feed for slaughter totaled 170,000 head, down 5,000 from last year. Michigan has 14,600 operations with cattle, up 300 from a year ago.

The January 1 Michigan cattle and calf inventory was valued at $1.42 billion, up 19 percent from January 1, 2007, which was $1.20 billion. Cash receipts from cattle and calf marketings totaled $343.3 million, while total liveweight marketed was 443.6 million pounds. The top 5 counties in cattle and calves in 2007 were Huron, Sanilac, Allegan, Clinton, and Ottawa.

Cattle and calves: Number of operations by size group, 2003-2007 [1]

Size group by head	2003	2004	2005	2006	2007
	Number	*Number*	*Number*	*Number*	*Number*
1-49 head	10,000	10,200	10,100	10,000	10,300
50-99 head	2,050	1,700	1,800	1,800	1,800
100-499 head	2,200	2,300	2,200	2,200	2,200
500-999 head	170	210	210	200	190
1000 + head	80	90	90	100	110
Total	14,500	14,500	14,400	14,300	14,600

[1] An operation is any place having one or more head of cattle on hand at any time during the year.

Cattle and calves: Number on farms by class, January 1, 2004-2008

Class	2004	2005	2006	2007	2008
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
All cows that have calved	385	400	415	435	450
Beef cows	85	93	103	108	106
Milk cows	300	307	312	327	344
Heifers, 500 pounds and over	211	202	213	205	213
Beef cow replacement	30	35	31	33	31
Milk cow replacement	130	120	137	135	137
Other	51	47	45	37	45
Steers, 500 pounds and over	215	200	195	190	195
Bulls, 500 pounds and over	19	18	17	17	16
Calves, under 500 pounds	200	180	190	213	196
All cattle and calves	1,030	1,000	1,030	1,060	1,070

Cattle and calves: Production and income, 2003-2007

Year	Production [1]	Marketings [2]	Average price per cwt		Value of production	Cash receipts [4]	Value of home consumption	Gross income
			All beef [3]	Calves				
	1,000 pounds	*1,000 pounds*	*Dollars*	*Dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
2003	333,635	324,896	63.00	92.50	213,932	207,722	7,795	215,517
2004	373,604	404,800	68.70	109.00	250,766	282,708	8,600	291,308
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

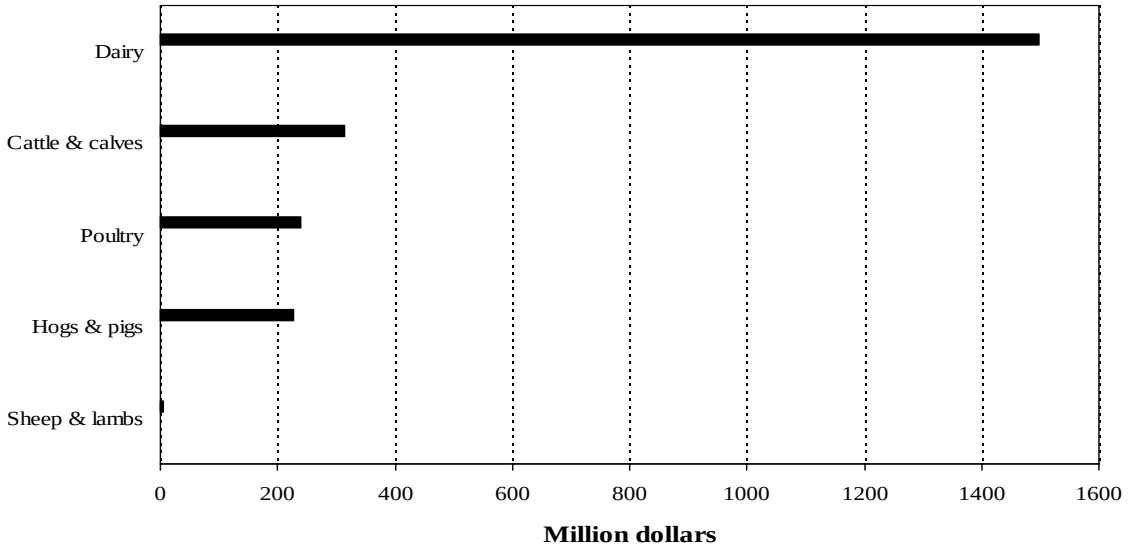
[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and inter-farm sales within the State.
[3] Combined price for "Cows" and "Steers and Heifers".
[4] Receipts from marketings and sale of farm slaughter.

Cattle and calves: Balance sheet, 2003-2007

Year	All cattle and calves on hand January 1	Calf crop	Inshipments	Marketings [1]		Farm slaughter cattle and calves [2]	Deaths		All cattle and calves on hand following January 1
				Cattle	Calves		Cattle	Calves	
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
2003	990	350	39	248	25	4	24	48	1,030
2004	1,030	335	43	304	28	4	24	48	1,000
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

[1] Includes custom slaughter and state outshipments, but excludes inter-farm sales within the State.
[2] Excludes custom slaughter for farmers at commercial establishments.

Michigan Livestock: Value of Production, 2007



Dairy

Milk production in Michigan during 2007 was 7,598 million pounds, up 6.8 percent from 2006. Michigan ranked seventh nationally in milk production in 2007, accounting for 4.45 percent of U.S. production. Huron, Clinton, and Ottawa were the three top counties in milk production.

The annual average number of milk cows on Michigan farms during 2007 was 335,000 head, up 15,000 from 2006. The number of operations with milk cows fell to 2,600 from 2,700 in 2006. Milk production per cow was 22,681 pounds in 2007, compared with 22,234 pounds during 2006. The average butterfat content was 3.61 percent, down from 3.63 in 2006.

Milk prices during the year averaged $19.70 per cwt., up $6.40 from 2006. Cash receipts from milk sales totaled $1,484.4 million, up 58.5 percent from 2006. Milk continued as the top ranked Michigan commodity in cash receipts.

Milk: Production, utilization, marketings, and value, 2003-2007

Item	Unit	2003	2004	2005	2006	2007
Production						
Total milk produced on farms	Million pounds	6,375	6,330	6,750	7,115	7,598
Milkfat produced	Million pounds	230.8	229.8	243.7	258.3	274.3
Milkfat	Percent	3.62	3.63	3.61	3.63	3.61
Utilization						
Milk used where produced						
Fed to calves	Million pounds	55	51	52	56	58
Used for milk, cream, and butter	Million pounds	5	4	3	4	5
Milk marketed by producers	Million pounds	6,315	6,275	6,695	7,055	7,535
Average return per 100 pounds of milk	Dollars	12.60	16.30	15.40	13.30	19.70
Average return per pound milkfat	Dollars	3.48	4.49	4.27	3.66	5.46
Fluid grade	Percent	99	99	99	99	100
Total cash receipts	1,000 dollars	795,690	1,022,825	1,031,030	938,315	1,484,395
Value						
Value of milk used where produced [1]	1,000 dollars	7,560	8,965	8,470	7,980	12,411
Total value of milk produced	1,000 dollars	803,250	1,031,790	1,039,500	946,295	1,496,806

[1] Includes value of milk fed to calves and milk used by farm households.

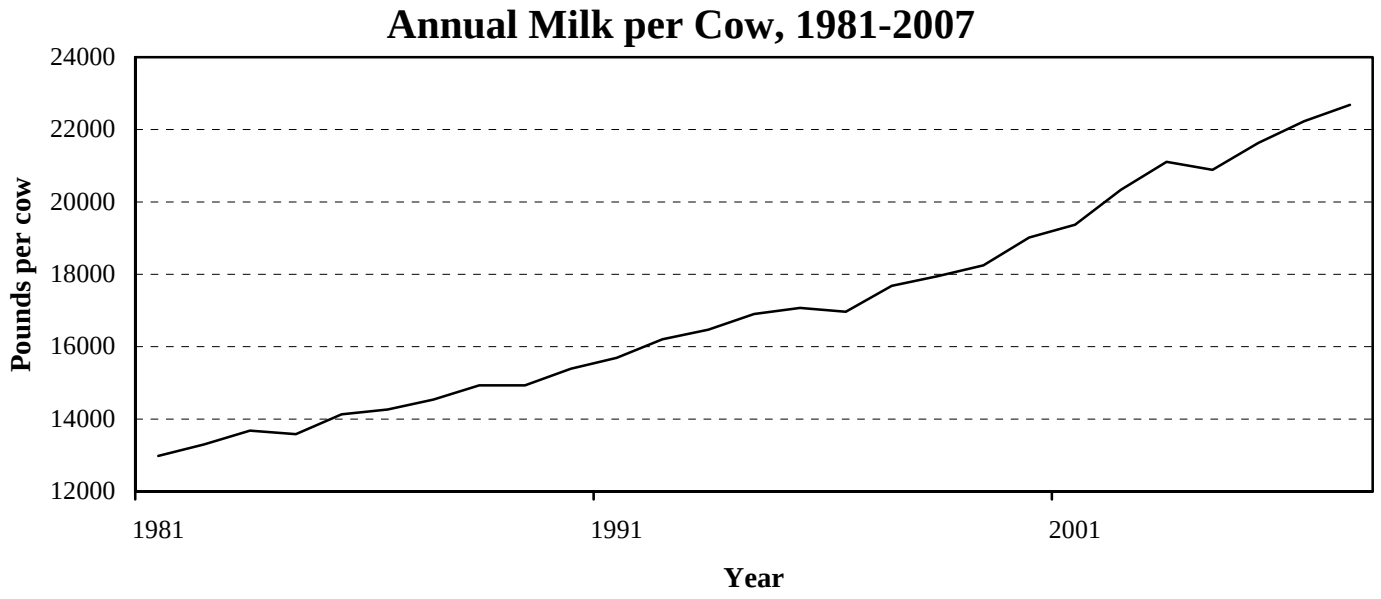
Milk cows: Number of operations, by size group, 2003-2007 [1]

Size group by head	2003	2004	2005	2006	2007
	Number	*Number*	*Number*	*Number*	*Number*
1-29	1,000	950	870	790	740
30-49	450	440	420	410	400
50-99	700	660	660	650	630
100-199	550	540	510	480	465
200-499	220	225	245	265	260
500+	80	85	95	105	105
Total	3,000	2,900	2,800	2,700	2,600

[1] An operation is any place having one or more milk cows on hand at any time during the year.

Milk cows: Number by month, 2003-2007

Month	2003	2004	2005	2006	2007
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
January	302	300	306	314	328
February	302	300	308	314	328
March	302	300	309	316	329
April	301	301	311	318	331
May	301	302	312	320	332
June	302	302	313	322	334
July	304	303	313	322	336
August	304	303	314	320	338
September	304	303	314	321	339
October	304	304	313	321	341
November	302	306	313	323	343
December	301	307	314	326	344
Annual	302	303	312	320	335



Milk production: Total by month, 2003-2007

Month	2003	2004	2005	2006	2007
	Million pounds	*Million pounds*	*Million pounds*	*Million pounds*	*Million pounds*
January	535	534	546	593	638
February	482	498	511	542	574
March	545	543	564	602	643
April	521	531	569	588	634
May	539	547	597	614	642
June	529	530	574	601	636
July	558	542	579	610	652
August	549	532	578	589	647
September	534	506	550	578	620
October	546	526	563	589	634
November	506	508	546	585	626
December	531	533	573	624	652
Annual	6,375	6,330	6,750	7,115	7,598

Milk: Production per cow, by month, 2003-2007

Month	2003	2004	2005	2006	2007
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*
January	1,770	1,780	1,785	1,890	1,945
February	1,595	1,660	1,660	1,725	1,750
March	1,805	1,810	1,825	1,905	1,955
April	1,730	1,765	1,830	1,850	1,915
May	1,790	1,810	1,915	1,920	1,935
June	1,750	1,755	1,835	1,865	1,905
July	1,835	1,790	1,850	1,895	1,940
August	1,805	1,755	1,840	1,840	1,915
September	1,755	1,670	1,750	1,800	1,830
October	1,795	1,730	1,800	1,835	1,860
November	1,675	1,660	1,745	1,810	1,825
December	1,765	1,735	1,825	1,915	1,895
Annual	21,109	20,891	21,635	22,234	22,681

Dairy Products, East North Central Region, 2003-2007 [1]

Product	2003	2004	2005	2006	2007
	Million pounds	*Million pounds*	*Million pounds*	*Million pounds*	*Million pounds*
Cheese, total [2]	2,697.1	2,777.8	3,998.7	4,030.8	4,069.8
Cheese, American type [3]	875.0	903.8	1,773.0	1,709.5	1,646.6
Cheese, Italian	1,205.5	1,216.5	1,404.2	1,503.0	1,556.0
Butter	345.7	340.9	608.2	645.3	663.4
Cottage cheese, lowfat	81.8	66.2	61.1	56.9	48.5
Cottage cheese, creamed	101.2	98.3	97.8	92.9	94.5
Cottage cheese curd	107.4	98.0	100.1	87.8	85.2
Yogurt, plain and flavored	759.8	913.0	1,014.1	1,083.4	1,244.1
Condensed skim milk, unsweetened, bulk	144.2	150.4	249.5	303.5	393.3
Nonfat dry milk for human food	48.3	35.6	194.3	159.3	160.5
	1,000 gallons	*1,000 gallons*	*1,000 gallons*	*1,000 gallons*	*1,000 gallons*
Ice cream, regular, hard	181,109	180,192	174,049	172,269	167,051
Ice cream, lowfat, total	102,436	110,475	115,034	117,701	112,337
Sherbet, hard	10,455	9,910	11,337	10,335	10,657
Frozen yogurt mix	4,944	4,294	4,210	4,066	3,739
Ice cream mix, regular	100,873	99,107	95,951	92,933	96,469
Ice cream mix, lowfat	56,440	62,374	64,670	68,485	63,402
Sherbet mix	6,615	6,272	7,241	6,535	6,753

[1] Illinois, Indiana, Michigan, Ohio, and Wisconsin.
[2] Excluding cottage cheese.
[3] Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

Hogs and Pigs

The number of operations in Michigan with hogs totaled 2,200, up 5 percent from 2006. Based on the December 1, 2007 inventory of 1.03 million hogs and pigs, Michigan ranked fourteenth in the nation in terms of inventory. Breeding inventory averaged 10 percent of the total inventory, while market hogs made up the remaining 90 percent.

During the period from December 2006 through November 2007, a total of 210,000 sows farrowed, 16,000 more sows than the previous year. The litter rate averaged 9.11 pigs per litter, up slightly from a year earlier. The resulting Michigan 2007 pig crop totaled 1.913 million head, up 8 percent from the previous year.

Michigan hog production totaled 556.0 million pounds in 2007, up 15.8 percent from 2006. Marketings of all hogs and pigs totaled 564.4 million pounds in 2007, up 18 percent from 2006. Michigan hog producers received an average of $41.10 per cwt for 2007, compared with the 2006 average price of $42.00 per cwt. Cash receipts generated from hogs and pigs totaled $235.5 million, up 15.2 percent from a year earlier.

Hogs and pigs: Number of operations, by size group, 2003-2007 [1]

Year	Operations						
	1-99	100-499	500-999	1,000-1,999	2,000-4,999	5,000+	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
2003	1,500	380	80	100	100	40	2,200
2004	1,500	270	90	90	110	40	2,100
2005	1,600	270	90	80	120	40	2,200
2006	1,540	240	75	80	120	45	2,100
2007	1,600	300	70	70	110	50	2,200

[1] An operation is any place having one or more head on hand at any time during the year.

Hogs and pigs: Sows farrowing and pig crop, 2003-2008

Year	December-February [1]			March-May		
	Sows farrowing	Pigs per litter	Pig crop	Sows farrowing	Pigs per litter	Pig crop
	1,000 head	*head*	*1,000 head*	*1,000 head*	*head*	*1,000 head*
2004	45	8.90	401	44	9.10	400
2005	44	9.00	396	45	9.00	405
2006	49	9.30	446	47	9.20	432
2007	49	8.75	429	53	9.00	477
2008	52	9.45	491	53	9.70	514
	June-August			September-November		
2003	47	9.00	423	51	8.80	449
2004	48	9.20	442	46	9.20	423
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

[1] December of previous year.

Hogs and pigs: Inventory, 2004-2008

Month and year	Market hogs and pigs					Breeding stock	Total hogs and pigs
	Under 60 pounds	60-119 pounds	120-179 pounds	180 lbs and over	Total market		
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
March 1							
2004	300	205	175	150	830	100	930
2005	325	190	160	145	820	100	920
2006	315	200	175	170	860	100	960
2007	305	210	180	185	880	110	990
2008	320	220	175	175	890	100	990
June 1							
2004	300	200	170	145	815	95	910
2005	310	200	155	145	810	100	910
2006	335	195	175	175	880	100	980
2007	330	215	195	180	920	110	1,030
2008	330	230	185	185	930	100	1,030
September 1							
2004	320	200	170	150	840	100	940
2005	320	195	165	150	830	100	930
2006	300	220	180	180	880	100	980
2007	335	230	230	185	980	100	1,080
December 1							
2004	330	195	160	155	840	110	950
2005	315	205	175	165	860	100	960
2006	300	230	170	190	890	110	1,000
2007	320	235	200	175	930	100	1,030

Hogs and pigs: Production and income, 2003-2007

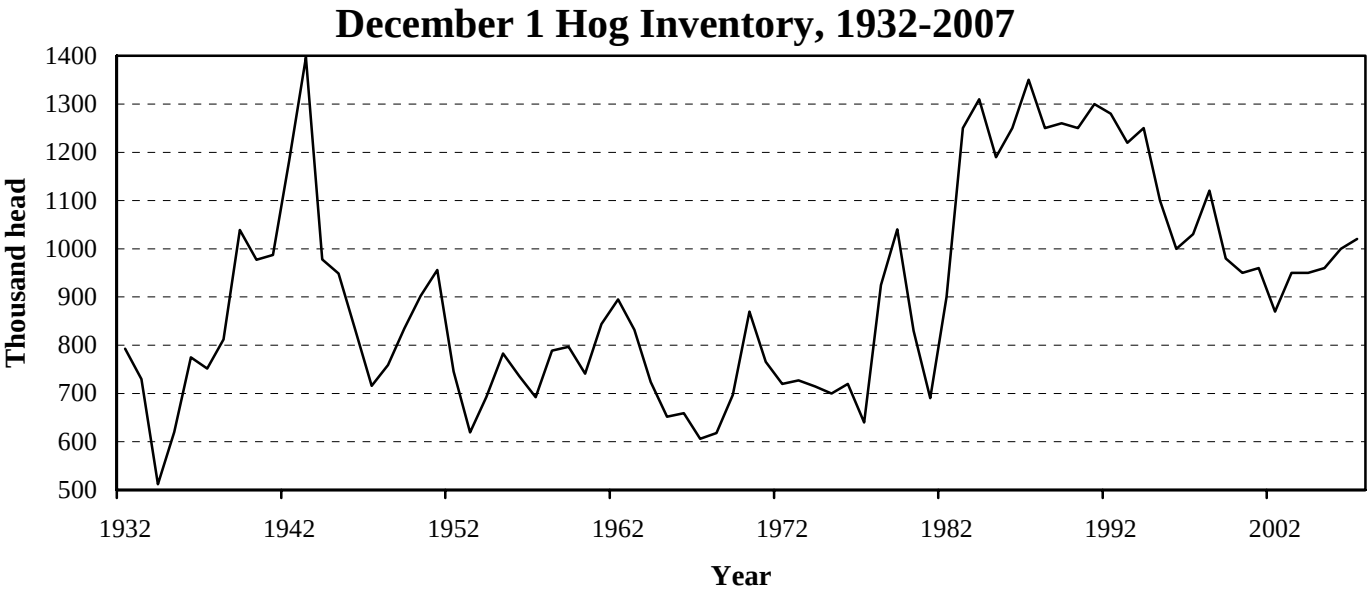
Year	Production [1]	Marketings [2]	Average price per cwt	Value of production	Cash receipts [3]	Value of home consumption	Gross income
	1,000 pounds	*1,000 pounds*	*Dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
2003	478,977	484,225	35.00	165,113	173,671	443	174,114
2004	483,291	502,100	45.90	218,709	236,002	465	236,467
2005	470,520	478,725	46.70	218,969	229,852	474	230,326
2006	480,183	478,310	42.00	200,776	204,514	426	204,940
2007	555,953	564,370	41.10	227,187	235,516	438	235,954

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.
[3] Receipts from marketing and sales of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.

Hogs and pigs: Balance sheet, 2003-2007

Year	Beginning inventory	Dec-Nov pig crop	Inshipments	Marketings [1]	Farm slaughter [2]	Deaths	Number on hand December 1
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
2003	870	1,664	355	1,874	5	60	950
2004	950	1,666	345	1,939	4	68	950
2005	950	1,677	255	1,854	4	64	960
2006	960	1,765	186	1,836	4	71	1,000
2007 [3]	1,000	1,913	233	2,044	4	78	1,020

[1] Includes custom slaughter and state outshipments, but excludes sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.
[3] Categories do not add due to a revision to December 1, 2007 inventory in June 2008. The balance sheet will be revised in April 2009.



Honey

Michigan honey production for 2007 totaled 4.61 million pounds, up 16 percent from 2006. This estimate included honey from producers with 5 or more colonies. Michigan ranked ninth in honey production in 2007, up from eleventh in 2006. Yields from Michigan's 72,000 colonies producing honey averaged 64 pounds in 2007, compared with 55 pounds the previous year.

Michigan honey price averaged $1.14 per pound, down 3 cents per pound from last year. Value of production totaled $5.25 million, up 13 percent from 2006. Honey stocks were 2.35 million pounds, up 12 percent from 2006.

Honey: Production and value, 2003-2007 [1]

Year	Honey producing colonies	Yield per colony	Production	Price per pound	Value of production	Stocks Dec 15 [2]
	Thousands	*Pounds*	*1,000 pounds*	*Cents*	*1,000 dollars*	*1,000 pounds*
2003	65	74	4,810	141	6,782	1,732
2004	65	67	4,355	114	4,965	2,439
2005	65	68	4,420	96	4,243	2,519
2006	72	55	3,960	117	4,633	2,099
2007	72	64	4,608	114	5,253	2,350

[1] Includes only producers with 5 or more colonies.
[2] Stocks held by producers.

Mink

Mink: Farms, pelts produced and females bred to produce kits, 2004-2008

Year	2004	2005	2006	2007	2008
	Number	*Number*	*Number*	*Number*	*Number*
Farms	7	7	9	9	([1])
Pelts produced	50,500	55,500	54,550	52,580	([1])
Females bred to produce kits	11,700	11,500	12,100	12,330	10,300

[1] Published in July 2009.

Poultry

The combined value of production in Michigan from eggs, turkeys, and other chickens (primarily culled layers) during 2007 was $239.4 million, up 54 percent from a year earlier. The value of egg production totaled $155.5 million, up 113 percent from 2006. Egg production totaled 2.6 billion eggs, up 7 percent from last year. The market egg price averaged 73 cents per dozen, up 36 cents from 2006. The value of turkey production during 2007 was $83.9 million, up 2 percent. The total pounds of turkey produced were 182.4 million, up 4 percent. The average price per pound was 46 cents, down 1 cent from last year. The number of chickens sold was 3.5 million birds in 2007, up 3 percent from last year.

Chickens: Layers on hand, December 1, 2003-2007

Class	2003	2004	2005	2006	2007
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
Total layers	7,067	7,720	8,357	9,218	9,141
Layers, 1 year old and older	5,272		([1])	([1])	([1])
Layers, 20 weeks old but less than 1 year	1,795		([1])	([1])	([1])
Pullets not of laying age	2,664	1,615	1,752	2,156	1,845
Pullets, 13-20 weeks old	1,278		([1])	([1])	([1])
Pullets, less than 13 weeks	1,386		([1])	([1])	([1])
Other chickens		1	1	1	1
All chickens (excluding broilers)	9,731	9,336	10,110	11,375	10,987

[1] Estimates no longer published.

Turkeys: Production and value, 2005-2007 [1]

Year	Number raised [2]	Pounds produced	Price per pound [3]	Value of production
	Thousands	*1,000 pounds*	*Cents*	*1,000 dollars*
2003	5,000	191,000	36.0	68,760
2004	5,000	188,000	37.0	69,560
2005	4,500	168,750	40.0	67,500
2006	4,600	174,800	47.0	82,156
2007	4,800	182,400	46.0	83,904

[1] December 1 previous year through November 30.
[2] Based on turkeys placed Sep 1 through Aug 31. Excludes young turkeys lost.
[3] Equivalent live weight returns to producers.

All eggs: Production and value, 2003-2007 [1]

Year	Eggs produced	Price per dozen	Value of production
	Million	*Dollars*	*1,000 dollars*
2003	1,888	0.595	93,613
2004	2,009	0.563	94,313
2005	2,142	0.347	61,870
2006	2,391	0.367	73,097
2007	2,563	0.728	155,469

[1] December 1 previous year through November 30.

All egg production, by month, 2003-2007

Month	2003	2004	2005	2006	2007
	Million eggs	*Million eggs*	*Million eggs*	*Million eggs*	*Million eggs*
December	162	165	174	194	214
January	160	162	163	190	208
February	147	150	160	177	195
March	161	166	185	204	223
April	152	167	176	193	217
May	160	172	188	199	219
June	156	170	187	195	205
July	158	175	186	202	212
August	159	172	179	208	211
September	155	164	177	204	207
October	162	171	182	214	227
November	159	175	185	211	225
Total [1]	1,888	2,009	2,142	2,391	2,563

[1] Sum of months may not add to total due to rounding.

All layers: Average number on hand during the month, 2003-2007

Month	2003	2004	2005	2006	2007
	1,000 head	*1,000 head*	*1,000 head*	*1,000 head*	*1,000 head*
December	7,243	7,295	7,482	8,260	9,102
January	7,198	7,447	7,389	8,169	8,901
February	7,220	7,424	7,869	8,380	9,016
March	7,074	7,481	8,017	8,436	9,133
April	6,934	7,397	7,954	8,192	9,090
May	7,121	7,309	8,018	8,288	8,825
June	7,128	7,476	8,024	8,451	8,813
July	7,079	7,652	8,022	8,521	8,941
August	7,088	7,587	7,944	8,850	8,744
September	6,942	7,626	7,798	9,121	8,789
October	6,869	7,613	7,770	9,117	8,950
November	6,959	7,603	8,117	9,146	9,088
Annual [1]	7,058	7,493	7,867	8,578	8,949

[1] December 1 previous year through November 30.

Sheep and Goats

Michigan sheep operations in 2007 numbered 2,200, up slightly from 2006. All sheep and lamb inventory in Michigan on January 1, 2008 was estimated at 82,000 head, up 1,000 head from the previous year. The breeding sheep inventory was 60,000 head. Market sheep and lambs totaled 20,000 head, down 1,000 from the previous year. The 2007 Michigan lamb crop (lambs born October 1, 2005 through September 30, 2006) was 63,000 head, up 7,000 from a year ago.

Sheep and lamb value of production was $3.83 million for 2007. Cash receipts totaled $3.31 million. All sheep and lambs were valued at $155 per head, up $10 from the previous year.

Sheep shorn in 2007 totaled 70,000 head. The weight per fleece was 6.0 pounds, unchanged from 2006. Total wool production in Michigan was 420,000 pounds. Wool production was valued at $151,000. The average price per pound was $0.36, down $0.09 from 2006.

Sheep and lambs: Number on farms by class, January 1, 2004-2008

Class	2004	2005	2006	2007	2008
	1,000 Head	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*
Breeding sheep 1 year and older					
Ewes	43	45	46	44	46
Rams	3	2	3	3	3
Replacement lambs	13	12	12	13	13
Total market sheep and lambs	24	24	22	21	20
All sheep and lambs	83	83	83	81	82

Sheep and lambs: Number of operations, 2003-2007 [1]

Year	Number
2003	2,100
2004	2,000
2005	2,000
2006	2,100
2007	2,200

[1] An operation is any place having one or more head on hand at any one time during the year.

Sheep and lambs: Lamb crop, 2003-2007

Year	Breeding ewes [1]	Lambs per 100 ewes [1]	Lamb crop
	1,000 Head	*Number*	*1,000 Head*
2003	47	125	60
2004	43	128	55
2005	45	131	59
2006	46	122	56
2007	44	143	63

[1] Ewes 1 year and older January 1.

Sheep and lambs: Balance sheet, 2003-2007

Year	All sheep and lambs on hand January 1	Lamb crop	Inshipments	Marketings [1]		Farm slaughter [2]	Deaths		All sheep and lambs on hand following January 1
				Sheep	Lambs		Sheep	Lambs	
	1,000 Head	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*
2003	85	60	4.0	15.5	36.0	2.0	4.5	8.0	83
2004	83	55	3.0	12.0	35.0	2.0	3.0	6.0	83
2005	83	59	2.0	7.0	40.0	2.0	4.0	8.0	83
2006	83	56	3.0	12.0	37.0	2.0	3.0	7.0	81
2007	81	63	3.1	8.0	41.1	4.0	4.0	8.0	82

[1] Includes custom slaughter and state outshipments, but excludes sales within Michigan.
[2] Excludes custom slaughter for farmers at commercial establishments.

Sheep and lambs: Production and income, 2003-2007

Year	Production [1]	Marketings [2]	Average price per cwt		Value of production	Cash receipts [3]	Value of home consumption	Gross income
			Sheep	Lambs				
	1,000 pounds	*1,000 pounds*	*Dollars*	*Dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*
2003	4,662	4,927	35.00	86.00	3,840	3,660	495	4,155
2004	4,722	4,532	40.00	94.00	4,119	3,800	540	4,340
2005	4,660	4,170	45.00	105.00	4,269	3,875	604	4,479
2006	4,215	4,270	36.00	87.00	3,173	3,011	501	3,512
2007	4,822	4,159	32.00	93.00	3,832	3,306	781	4,087

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Sheep and lambs: Wool production and value, 2003-2007

Year	Sheep shorn	Weight per fleece	Production	Price per pound	Value of production [1]
	1,000 Head	*Pounds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
2003	77	6.2	475	30	143
2004	76	5.8	440	45	198
2005	81	5.9	480	39	187
2006	70	6.0	420	45	189
2007	70	6.0	420	36	151

[1] Production multiplied by marketing year average price.

Goats: Number by class, January 1, 2005-2008

Year	Angora	Milk	Meat and other
	Head	*Head*	*Head*
2005	1,000	7,500	9,200
2006	1,000	8,000	10,000
2007	1,000	8,600	9,500
2008	([1])	7,900	10,200

[1] Not published to avoid disclosure of individual operations.

Trout

Michigan's 15 commercial trout operations sold $758,000 of trout in 2007. This was a $25,000 decrease from last season.

Trout 12 inches or longer had sales of 211,000 pounds with an average liveweight of 1.0 pound per fish. Sales of trout 12 inches or longer were valued at $601,000 for an average value of $2.85 per pound. The major sales outlets were direct to consumers at 40 percent of the total, 29 percent to live haulers, and 7 percent to fee fishing operations.

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 82,000 fish, weighing 38,000 pounds. Losses due to disease amounted to 66 percent of the total.

Trout: Sales by size category, 2003-2007

Size category	Number of fish sold	Live weight	Sales	
			Total	Average per pound [1]
	1,000	*1,000*	*1,000 dollars*	*Dollars*
12 inches or longer				
2003	250	275	564	2.05
2004	285	305	601	1.97
2005	255	295	634	2.15
2006	320	304	620	2.04
2007	215	211	601	2.85
6 to 12 inches				
2003	([2])	([2])	([2])	([2])
2004	165	65	167	2.57
2005	([2])	([2])	([2])	([2])
2006	([2])	([2])	([2])	([2])
2007	([2])	([2])	([2])	([2])
1 to 6 inches				
2003	([2])	([2])	([2])	([2])
2004	55	3	22	408.00
2005	([2])	([2])	([2])	([2])
2006	([2])	([2])	([2])	([2])
2007	([2])	([2])	([2])	([2])

[1] Price for fish 1 to 6 inches is average per 1,000 fish.
[2] Not published separately to avoid disclosure of individual operations.

Trout: Number of operations, 2003-2007

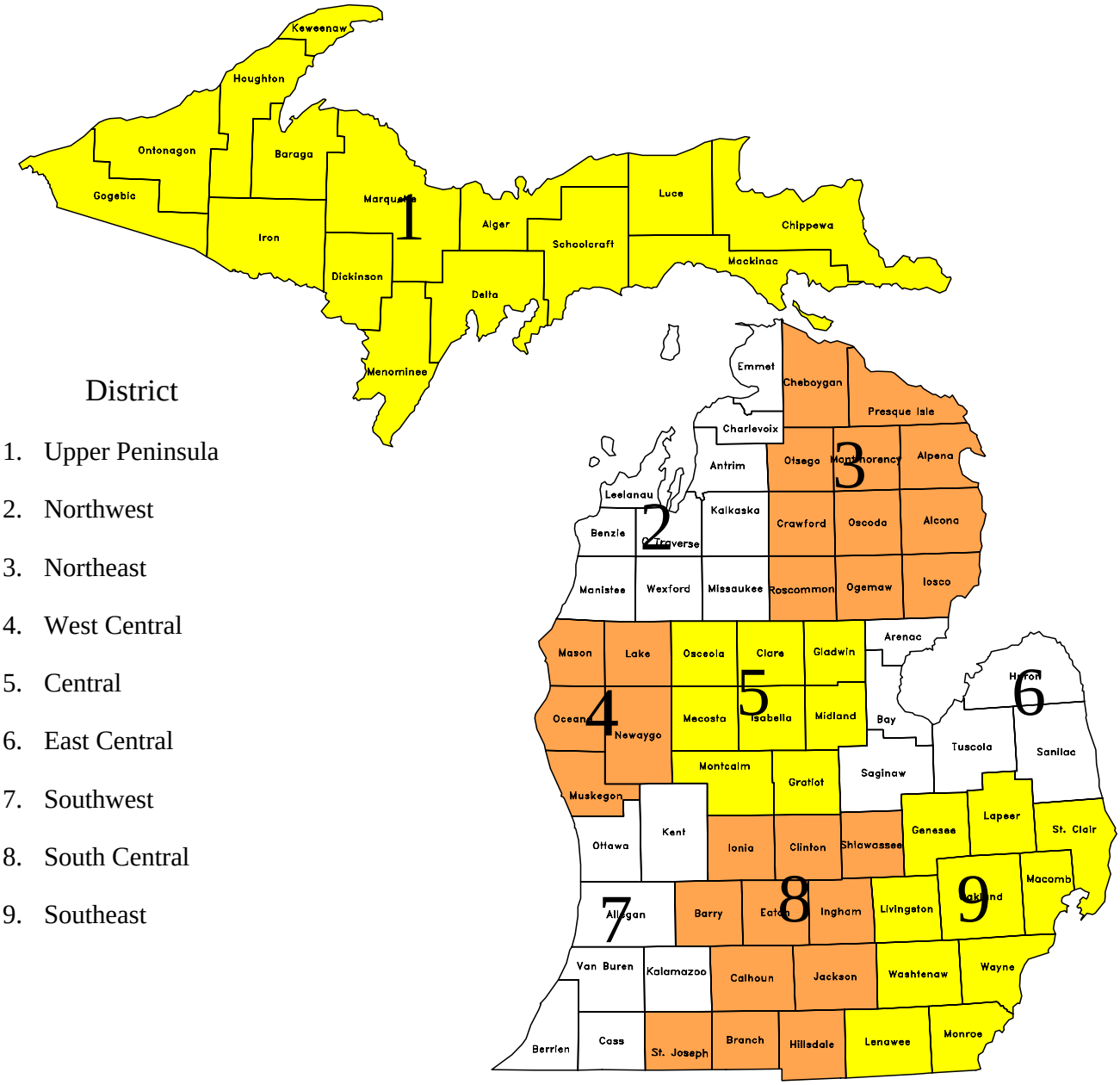
Year	Operations
	Number
2003	18
2004	28
2005	20
2006	23
2007	19

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.

District

1. Upper Peninsula
2. Northwest
3. Northeast
4. West Central
5. Central
6. East Central
7. Southwest
8. South Central
9. Southeast



Principal counties for field crops, 2007 [1]

Rank	Corn for grain	Dry beans	Hay [2]	Oats	Soybeans	Sugarbeets	Wheat
1	Lenawee	Huron	Sanilac	Sanilac	Sanilac	Huron	Huron
2	Huron	Tuscola	Huron	Clinton	Lenawee	Tuscola	Sanilac
3	Saginaw	Bay	Isabella	Presque Isle	Saginaw	Sanilac	Tuscola
4	Sanilac	Sanilac	Barry	Huron	Shiawassee	Saginaw	Lenawee
5	Tuscola	Montcalm	Ionia	Shiawassee	Monroe	Bay	Saginaw

[1] Based on total production.

[2] Based on 2004 production.

Principal counties for livestock [1]

Rank	January 1, 2008 Cattle and Calves	December 1, 2005 Hogs and pigs	January 1, 2008 Milk cows
1	Huron	Cass	Huron
2	Sanilac	Allegan	Clinton
3	Allegan	Ottawa	Sanilac
4	Clinton	Branch	Allegan
5	Ottawa	Huron	Ionia

[1] Based on number of head.

Principal counties for fruits and vegetables, 2006 [1]

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

[1] Based on acres from rotational surveys.

Barley: Acreage, yield, and production, by county, 2006-2007 [1]

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Chippewa					700	700	46	32
Delta	1,800	1,750	42	73	1,500	1,500	80	120
Menominee	1,600	1,550	44	68	2,100	2,100	60	125
Other counties [2]	2,400	2,400	45	109	2,500	2,500	49	123
Upper Peninsula	5,800	5,700	44	250	6,800	6,800	59	400
Northwest					500	500	36	18
Alpena					500	500	44	22
Iosco	550	550	40	22				
Presque Isle					500	450	38	17
Other counties [2]	1,750	1,750	45	78	1,200	1,150	49	56
Northeast	2,300	2,300	43	100	2,200	2,100	45	95
Central	1,000	900	59	53	800	800	60	48
Huron	550	550	73	40				
Other counties [2]	850	650	52	34				
East Central	1,400	1,200	62	74	1,400	1,200	68	82
Southwest	700	600	67	40				
South Central	2,000	1,600	45	72	1,000	600	63	38
Southeast	1,000	900	69	62	700	700	49	34
Other districts [2]	800	800	44	35	600	300	43	13
Michigan	15,000	14,000	49	686	14,000	13,000	56	728

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Corn: Acreage, yield, and production, by county, 2006 [1]

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Tons*	*Tons*
Delta	3,100	1,800	127	229	1,200	10.0	12,000
Menominee	14,100	4,600	138	637	9,000	11.3	102,000
Other counties [2]	2,800	700	120	84	1,800	11.7	21,000
Upper Peninsula	20,000	7,100	134	950	12,000	11.3	135,000
Antrim	3,200	2,500	108	270			
Benzie	1,700	1,300	104	135			
Charlevoix	2,700	2,100	110	230			
Emmet	1,400	900	111	100			
Grand Traverse	6,700	5,800	101	585			
Manistee	800	600	108	65			
Missaukee	16,400	9,900	130	1,290	6,200	14.5	90,000
Wexford	4,000	2,900	97	280			
Other counties [2]	3,100	2,300	93	215	4,800	12.5	60,000
Northwest	40,000	28,300	112	3,170	11,000	13.6	150,000
Alpena	5,400	3,500	129	450	1,900	15.8	30,000
Iosco	6,900	4,400	139	610	2,300	13.5	31,000
Montmorency	1,900	1,600	128	205			
Ogemaw	9,100	6,400	131	840	2,500	16.4	41,000
Otsego	1,100	750	107	80			
Presque Isle	5,700	4,700	117	550			
Other counties [2]	3,900	2,050	105	215	3,300	11.5	38,000
Northeast	34,000	23,400	126	2,950	10,000	14.0	140,000
Mason	12,000	9,300	116	1,080	2,700	17.0	46,000
Newaygo	28,000	18,300	132	2,420	9,500	13.8	131,000
Oceana	12,000	10,600	119	1,260	1,300	11.5	15,000
Other counties [2]	19,000	11,500	121	1,390	7,500	14.4	108,000
West Central	71,000	49,700	124	6,150	21,000	14.3	300,000
Clare	3,700	1,700	112	190			
Gladwin	7,100	6,500	135	880			
Gratiot	84,000	77,700	140	10,900			
Isabella	35,000	28,500	136	3,890	5,800	15.7	91,000
Mecosta	20,500	16,500	132	2,180	3,900	12.8	50,000
Midland	21,000	19,000	138	2,620			
Montcalm	56,500	50,200	134	6,720	6,200	16.5	102,000
Osceola	7,200	3,900	133	520	3,200	15.3	49,000
Other counties [2]					9,900	19.0	188,000
Central	235,000	204,000	137	27,900	29,000	16.6	480,000
Arenac	18,000	16,000	131	2,090			
Bay	47,000	45,100	139	6,260			
Huron	109,000	88,900	163	14,500	20,000	18.3	365,000
Saginaw	89,000	84,800	146	12,400	3,900	17.4	68,000
Sanilac	85,000	72,400	167	12,100	12,500	17.2	215,000
Tuscola	82,000	78,800	154	12,150			
Other counties [2]					6,600	15.5	102,000
East Central	430,000	386,000	154	59,500	43,000	17.4	750,000

See footnote(s) at end of table.

--continued

Corn: Acreage, yield, and production, by county, 2006 [1] (continued)

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Tons*	*Tons*
Allegan	85,000	72,200	143	10,300	12,400	16.8	208,000
Berrien	43,000	41,200	153	6,290			
Cass	68,000	67,400	159	10,700			
Kalamazoo	48,000	45,200	155	7,020	2,700	15.2	41,000
Kent	42,000	35,700	141	5,020	6,200	16.8	104,000
Ottawa	42,000	32,200	155	4,980	9,700	14.4	140,000
Van Buren	32,000	29,100	137	3,990			
Other counties [2]					5,000	13.4	67,000
Southwest	360,000	323,000	150	48,300	36,000	15.6	560,000
Barry	40,000	32,700	147	4,800	7,300	19.5	142,000
Branch	80,000	77,400	151	11,650	2,500	18.4	46,000
Calhoun	75,000	71,400	142	10,150	3,500	17.1	60,000
Clinton	72,000	61,400	147	9,050	10,300	20.9	215,000
Eaton	58,000	56,500	145	8,210			
Hillsdale	66,000	61,600	149	9,200	4,300	20.2	87,000
Ingham	49,000	46,100	151	6,950	2,900	17.2	50,000
Ionia	77,000	67,300	146	9,840	9,500	18.9	180,000
Jackson	51,000	48,200	135	6,520	2,400	19.6	47,000
St Joseph	81,000	79,100	161	12,700			
Shiawassee	51,000	47,300	138	6,530	3,000	19.0	57,000
Other counties [2]					3,300	17.0	56,000
South Central	700,000	649,000	147	95,600	49,000	19.2	940,000
Genesee	26,000	24,100	128	3,080			
Lapeer	32,000	29,100	156	4,530	2,600	20.4	53,000
Lenawee	97,500	88,700	156	13,800	8,700	19.5	170,000
Livingston	19,000	17,600	132	2,320	1,300	13.1	17,000
Macomb	11,000	10,600	153	1,620			
Monroe	60,000	59,200	162	9,590			
St Clair	24,000	23,000	148	3,400	900	22.2	20,000
Washtenaw	38,000	34,900	142	4,970	2,800	14.6	41,000
Other counties [2]	2,500	2,300	126	290	2,700	14.4	39,000
Southeast	310,000	289,500	151	43,600	19,000	17.9	340,000
Michigan	2,200,000	1,960,000	147	288,120	230,000	16.5	3,795,000

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Corn: Acreage, yield, and production, by county, 2007 [1]

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Tons*	*Tons*
Delta	3,500	2,300	87	200	1,100	10.9	12,000
Marquette	600						
Menominee	16,000	4,300	69	295	11,500	9.9	114,000
Other counties [2]	2,900	900	50	45	2,400	10.0	24,000
Upper Peninsula	23,000	7,500	72	540	15,000	10.0	150,000
Antrim	3,600	2,500	66	165			
Benzie	1,700	1,100	50	55			
Charlevoix	2,900	2,300	96	220	600	20.0	12,000
Emmet	1,600	1,000	85	85			
Grand Traverse	7,600	6,400	45	285			
Leelanau	3,000	2,500	48	120			
Manistee	1,400	800	75	60			
Missaukee	18,300	8,800	89	780	9,200	13.0	120,000
Other counties [2]	5,900	3,600	33	120	6,200	9.4	58,000
Northwest	46,000	29,000	65	1,890	16,000	11.9	190,000
Alpena	7,000	4,600	80	370	2,300	13.0	30,000
Iosco	8,400	5,800	97	560	2,500	12.8	32,000
Montmorency	2,300	2,100	86	180			
Ogemaw	10,500	7,700	114	880	2,700	13.7	37,000
Otsego	1,100	800	59	47			
Presque Isle	6,100	5,000	69	345			
Other counties [2]	4,600	2,500	75	188	3,500	11.7	41,000
Northeast	40,000	28,500	90	2,570	11,000	12.7	140,000
Mason	15,000	11,500	110	1,270	3,400	14.4	49,000
Muskegon	20,700	10,900	114	1,240	9,500	14.7	140,000
Newaygo	31,200	21,200	100	2,130	9,500	13.7	130,000
Other counties [2]	14,100	12,400	94	1,160	1,600	13.1	21,000
West Central	81,000	56,000	104	5,800	24,000	14.2	340,000
Gratiot	103,000	96,500	125	12,100	6,400	16.4	105,000
Isabella	49,500	43,100	115	4,970	6,000	14.8	89,000
Mecosta	24,500	19,800	99	1,970	4,500	13.1	59,000
Midland	26,500	24,500	130	3,190			
Montcalm	69,000	59,900	110	6,590	8,600	17.2	148,000
Osceola	8,300	3,800	113	430	4,100	14.9	61,000
Other counties [2]	14,200	11,400	110	1,250	4,400	15.5	68,000
Central	295,000	259,000	118	30,500	34,000	15.6	530,000
Arenac	21,000	19,000	117	2,230			
Bay	58,000	56,300	118	6,670			
Huron	130,000	104,100	148	15,400	25,000	18.6	465,000
Saginaw	110,000	106,300	143	15,200	3,500	18.9	66,000
Sanilac	112,000	98,500	136	13,400	13,000	16.8	219,000
Tuscola	99,000	95,800	134	12,800	3,000	14.3	43,000
Other counties [2]					3,500	16.3	57,000
East Central	530,000	480,000	137	65,700	48,000	17.7	850,000

See footnote(s) at end of table.

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Corn: Acreage, yield, and production, by county, 2007 [1] (continued)

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Tons*	*Tons*
Allegan	97,000	77,300	109	8,420	18,500	13.2	245,000
Berrien	49,000	47,300	141	6,690			
Cass	79,000	78,400	127	9,950			
Kalamazoo	59,000	54,800	104	5,700			
Kent	45,000	37,000	114	4,200	7,800	15.8	123,000
Ottawa	50,000	37,400	119	4,460	12,000	13.3	160,000
Van Buren	41,000	37,800	116	4,380			
Other counties [2]					8,700	14.0	122,000
Southwest	420,000	370,000	118	43,800	47,000	13.8	650,000
Barry	49,000	37,600	113	4,250	9,900	15.2	150,000
Branch	96,000	93,400	116	10,800			
Calhoun	90,000	85,200	110	9,370	4,600	13.5	62,000
Clinton	84,000	72,000	125	8,990	10,500	19.6	206,000
Eaton	69,000	67,400	123	8,290			
Hillsdale	79,000	72,900	114	8,300	5,500	17.1	94,000
Ingham	58,000	54,900	119	6,560	2,900	17.6	51,000
Ionia	87,000	72,100	135	9,720	14,000	15.1	211,000
Jackson	63,000	57,100	105	5,970	4,800	13.8	66,000
St Joseph	91,000	87,800	137	12,000	3,100	9.7	30,000
Shiawassee	64,000	59,600	130	7,750	3,700	17.3	64,000
Other counties [2]					4,000	16.5	66,000
South Central	830,000	760,000	121	92,000	63,000	15.9	1,000,000
Genesee	34,500	32,800	119	3,890			
Lapeer	42,500	38,400	111	4,260	3,400	13.8	47,000
Lenawee	116,000	105,600	148	15,600	9,500	18.8	179,000
Livingston	22,500	19,600	117	2,300	2,200	13.6	30,000
Macomb	13,500	12,900	119	1,530			
Monroe	73,000	72,300	158	11,400	600	16.7	10,000
St Clair	32,500	31,100	110	3,410	1,200	12.5	15,000
Washtenaw	47,000	44,000	131	5,780	2,900	13.1	38,000
Other counties [2]	3,500	3,300	130	430	2,200	14.1	31,000
Southeast	385,000	360,000	135	48,600	22,000	15.9	350,000
Michigan	2,650,000	2,350,000	124	291,400	280,000	15.0	4,200,000

[1] Estimates are not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Dry edible beans, all: Acreage, yield, and production, by county, 2006-2007 [1]

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Pounds*	*1,000 cwt*	*Acres*	*Acres*	*Pounds*	*1,000 cwt*
Presque Isle	800	800	1,000	8				
Other counties [2]	3,300	3,000	1,400	42				
Northeast	4,100	3,800	1,320	50	3,600	3,500	860	30
Gladwin	1,100	900	2,000	18				
Gratiot	14,000	12,000	1,320	158	8,300	7,800	1,100	86
Isabella	3,700	3,400	1,440	49	3,200	3,000	1,170	35
Mecosta	1,000	1,000	1,200	12				
Midland	4,900	4,500	1,600	72	3,500	3,000	1,730	52
Montcalm	10,900	10,200	1,580	161	8,300	8,000	1,400	112
Other counties [2]					1,700	1,700	1,120	19
Central	35,600	32,000	1,470	470	25,000	23,500	1,290	304
Arenac	5,900	5,600	1,790	100	5,700	5,600	1,230	69
Bay	22,700	22,000	1,850	408	20,000	19,500	1,610	314
Huron	86,500	84,000	2,180	1,830	78,500	78,000	1,730	1,353
Saginaw	9,700	9,200	1,990	183	7,800	7,600	1,460	111
Sanilac	18,200	17,700	2,120	376	18,100	17,800	1,740	309
Tuscola	36,500	35,500	1,700	603	35,900	34,500	1,610	554
East Central	179,500	174,000	2,010	3,500	166,000	163,000	1,660	2,710
Southwest	1,500	1,400	1,640	23				
Shiawassee	700	700	1,290	9				
Other counties [2]	1,500	1,400	1,360	19				
South Central	2,200	2,100	1,330	28	1,800	1,700	1,410	24
Southeast	1,300	1,100	730	8	1,200	1,100	1,820	20
Other districts [2]	800	600	1,000	6	2,400	2,200	1,450	32
Michigan	225,000	215,000	1,900	4,085	200,000	195,000	1,600	3,120

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Oats: Acreage, yield, and production, by county, 2006-2007 [1]

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Chippewa	2,000	1,700	44	75	2,400	1,700	66	113
Delta	1,600	1,400	54	76	1,600	1,550	67	104
Dickinson	700	500	54	27	600	550	40	22
Mackinac					500	500	50	25
Menominee	2,500	1,100	59	65	2,000	1,300	58	76
Other counties [2]	2,700	2,000	44	87	2,400	1,800	50	90
Upper Peninsula	9,500	6,700	49	330	9,500	7,400	58	430
Antrim	500	400	33	13	600	600	38	23
Charlevoix					500	500	54	27
Grand Traverse	1,500	1,300	55	72	1,600	1,500	43	64
Leelanau	500	400	43	17	500	350	34	12
Missaukee	1,200	1,100	59	65	800	650	49	32
Wexford	600	500	50	25	600	550	35	19
Other counties [2]	1,200	800	48	38	900	650	35	23
Northwest	5,500	4,500	51	230	5,500	4,800	42	200
Alcona	900	600	58	35				
Alpena	2,400	2,100	54	113	2,900	1,900	47	89
Iosco	1,300	1,000	64	64	1,100	1,100	52	57
Ogemaw	2,400	2,000	64	128	1,800	1,500	50	75
Otsego					500	500	28	14
Presque Isle	3,400	3,100	53	164	3,100	3,100	50	156
Other counties [2]	1,100	700	51	36	1,600	900	54	49
Northeast	11,500	9,500	57	540	11,000	9,000	49	440
Mason	1,000	900	52	47	700	500	70	35
Newaygo	1,300	1,100	61	67	900	700	56	39
Oceana	1,300	1,200	25	30	600	600	77	46
Other counties [2]	900	800	58	46	800	700	43	30
West Central	4,500	4,000	48	190	3,000	2,500	60	150
Clare	1,100	1,000	56	56	900	650	46	30
Gladwin	900	800	68	54	900	800	51	41
Gratiot	900	800	74	59	600	550	58	32
Isabella	3,000	2,600	67	173	2,300	1,800	57	102
Mecosta	2,300	1,100	47	52	2,100	850	45	38
Midland					500	450	71	32
Montcalm	3,500	3,100	57	176	3,400	1,500	42	63
Osceola					800	500	44	22
Other counties [2]	1,300	900	44	40				
Central	13,000	10,300	59	610	11,500	7,100	51	360
Arenac	1,200	500	60	30	1,200	900	61	55
Bay	900	500	46	23	500	400	38	15
Huron	1,700	1,500	90	135	1,800	1,750	85	148
Saginaw	1,200	900	80	72	500	500	66	33
Sanilac	4,100	3,300	75	246	2,900	2,250	82	185
Tuscola	1,400	1,300	65	84	1,100	800	68	54
East Central	10,500	8,000	74	590	8,000	6,600	74	490

See footnote(s) at end of table.

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Oats: Acreage, yield, and production, by county, 2006-2007 [1] (continued)

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Allegan	1,200	1,100	60	66	1,300	1,000	66	66
Kent	1,800	1,700	76	129	1,300	1,250	36	45
Ottawa	800	700	53	37	500	500	56	28
Other counties [2]	1,700	1,000	58	58	1,400	950	54	51
Southwest	5,500	4,500	64	290	4,500	3,700	51	190
Branch	700	600	73	44	500	450	69	31
Calhoun	1,100	1,000	67	67	900	450	58	26
Clinton	2,300	2,200	76	168	2,300	2,100	88	184
Eaton	1,100	900	70	63	900	750	67	50
Hillsdale	800	800	56	45	900	400	53	21
Ionia	2,000	1,500	79	119	1,200	1,100	62	68
Jackson	1,300	1,200	57	68	900	800	61	49
St Joseph	800	700	60	42	900	200	45	9
Shiawassee	2,300	2,200	80	175	1,700	1,400	88	123
Other counties [2]	1,100	900	54	49	800	650	60	39
South Central	13,500	12,000	70	840	11,000	8,300	72	600
Genesee	500	400	78	31				
Lapeer	1,400	1,150	73	84	1,500	1,400	54	76
Lenawee	800	700	81	57				
Monroe	800	700	96	67	700	600	85	51
St Clair	1,000	900	78	70	1,100	1,000	57	57
Washtenaw	900	650	71	46	800	800	64	51
Other counties [2]	1,100	1,000	55	55	1,900	1,800	53	95
Southeast	6,500	5,500	75	410	6,000	5,600	59	330
Michigan	80,000	65,000	62	4,030	70,000	55,000	58	3,190

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Soybeans: Acreage, yield, and production, by county, 2006-2007 [1]

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Upper Peninsula	3,000	2,900	28	80				
Grand Traverse	1,000	1,000	27	27				
Other counties [2]	1,000	900	37	33				
Northwest	2,000	1,900	32	60				
Alpena	3,300	3,300	37	122	3,800	3,800	25	95
Iosco	2,200	2,100	44	92	1,800	1,800	31	55
Montmorency	2,000	2,000	44	87	2,100	2,000	28	56
Ogemaw	1,000	1,000	42	42	1,000	1,000	35	35
Presque Isle	4,000	3,900	31	119	3,600	3,600	17	60
Other counties [2]	500	500	36	18	700	700	27	19
Northeast	13,000	12,800	38	480	13,000	12,900	25	320
Mason	3,000	3,000	35	105	3,000	3,000	35	105
Muskegon	6,600	6,600	39	260	5,700	5,700	39	225
Newaygo	4,700	4,700	38	180	4,300	4,200	33	140
Oceana	2,700	2,600	29	75	2,000	2,000	30	60
West Central	17,000	16,900	37	620	15,000	14,900	36	530
Gladwin	5,100	5,000	41	205	5,000	5,000	37	185
Gratiot	83,000	82,500	47	3,910	72,000	71,000	40	2,820
Isabella	46,000	45,900	45	2,080	39,000	39,000	29	1,150
Mecosta	2,000	2,000	20	40	1,500	1,000	20	20
Midland	20,000	19,900	40	795	16,500	16,500	41	675
Montcalm	22,000	21,900	39	865	18,500	18,000	31	555
Other counties [2]	1,900	1,800	36	65	2,500	2,500	18	45
Central	180,000	179,000	44	7,960	155,000	153,000	36	5,450
Arenac	15,000	14,800	41	600	13,000	13,000	35	460
Bay	38,000	37,800	41	1,560	30,000	30,000	38	1,130
Huron	46,000	45,800	49	2,240	35,000	34,800	43	1,490
Saginaw	90,000	89,500	43	3,880	82,000	82,000	41	3,390
Sanilac	131,000	130,500	49	6,450	120,000	119,800	40	4,790
Tuscola	75,000	74,600	45	3,370	60,000	59,900	39	2,340
East Central	395,000	393,000	46	18,100	340,000	339,500	40	13,600
Allegan	46,000	45,200	45	2,030	40,000	39,800	38	1,510
Berrien	46,000	45,700	47	2,160	40,000	40,000	44	1,750
Cass	51,000	50,800	47	2,410	42,000	41,800	44	1,820
Kalamazoo	35,000	34,900	47	1,650	29,000	29,000	34	980
Kent	22,000	21,900	41	900	20,000	20,000	38	750
Ottawa	24,000	23,900	45	1,070	19,000	18,900	40	750
Van Buren	26,000	25,600	38	980	20,000	19,500	35	680
Southwest	250,000	248,000	45	11,200	210,000	209,000	39	8,240
Barry	31,000	30,900	45	1,390	29,000	28,900	36	1,040
Branch	76,000	75,800	47	3,530	60,000	60,000	40	2,420
Calhoun	71,000	70,700	42	2,990	62,000	61,900	39	2,430
Clinton	72,000	71,800	45	3,230	65,000	64,900	39	2,510
Eaton	66,000	65,700	47	3,090	60,000	60,000	40	2,420
Hillsdale	75,000	74,800	47	3,510	65,000	64,900	38	2,440
Ingham	56,000	55,800	47	2,600	48,000	48,000	43	2,050
Ionia	58,000	57,900	45	2,580	55,000	54,900	39	2,140
Jackson	43,000	42,700	43	1,830	36,000	35,800	37	1,330
St Joseph	54,000	53,900	51	2,760	45,000	44,800	44	1,950
Shiawassee	83,000	82,500	40	3,340	75,000	74,900	40	3,000
South Central	685,000	682,500	45	30,850	600,000	599,000	40	23,730

See footnote(s) at end of table.

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Soybeans: Acreage, yield, and production, by county, 2006-2007 [1] (continued)

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Genesee	45,000	44,700	36	1,610	40,000	39,500	35	1,400
Lapeer	52,000	51,500	47	2,440	45,000	44,500	33	1,470
Lenawee	113,500	113,000	47	5,340	101,000	100,000	46	4,640
Livingston	20,000	19,900	44	866	17,000	17,000	38	640
Macomb	22,000	21,900	43	932	23,000	22,000	34	750
Monroe	81,000	80,900	45	3,670	69,000	69,000	42	2,870
Oakland	3,000	3,000	43	130				
St Clair	68,000	67,700	47	3,150	68,000	67,000	33	2,210
Washtenaw	47,000	46,900	42	1,950	41,000	40,500	43	1,730
Wayne	3,500	3,500	32	112				
Other counties [2]					6,000	5,500	35	190
Southeast	455,000	453,000	45	20,200	410,000	405,000	39	15,900
Other districts [2]					7,000	6,700	13	90
Michigan	2,000,000	1,990,000	45.0	89,550	1,750,000	1,740,000	39.0	67,860

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Sugarbeets: Acreage, yield, and production, by county, 2006-2007 [1]

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Tons*	*1,000 Tons*	*Acres*	*Acres*	*Tons*	*1,000 Tons*
Northeast	500	500	18.0	9				
Gladwin	1,000	1,000	19.0	19	1,000	1,000	17.0	17
Gratiot	11,600	11,200	18.8	210	11,200	11,000	21.1	232
Isabella					500	500	20.0	10
Midland	4,000	3,900	19.2	75	2,800	2,800	20.4	57
Montcalm					500	500	22.0	11
Other counties [2]	900	900	17.8	16				
Central	17,500	17,000	18.8	320	16,000	15,800	20.7	327
Arenac	3,500	3,500	21.1	74	3,300	3,300	19.4	64
Bay	14,700	14,600	20.3	296	14,800	14,700	20.6	303
Huron	55,500	55,400	24.9	1,380	52,700	52,600	24.9	1,310
Saginaw	17,000	16,900	22.4	378	16,100	16,000	24.7	395
Sanilac	20,200	20,100	24.8	498	21,100	20,800	22.1	459
Tuscola	21,100	21,000	24.5	514	20,000	19,900	25.6	509
East Central	132,000	131,500	23.9	3,140	128,000	127,300	23.9	3,040
Clinton	1,500	1,500	18.7	28	2,250	2,250	20.0	45
Ionia	500	500	22.0	11	500	500	22.0	11
Shiawassee	800	800	20.0	16	750	750	18.7	14
South Central	2,800	2,800	19.6	55	3,500	3,500	20.0	70
Lapeer	900	900	24.4	22	1,000	1,000	23.0	23
Other counties [2]	1,300	1,300	20.8	27	1,000	1,000	20.0	20
Southeast	2,200	2,200	22.3	49	2,000	2,000	21.5	43
Other districts [2]					500	400	17.5	7
Michigan	155,000	154,000	23.2	3,573	150,000	149,000	23.4	3,487

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Wheat: Acreage, yield, and production, by county, 2006-2007 [1]

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Chippewa	600	550	33	18				
Other counties [2]	1,400	1,350	39	52				
Upper Peninsula	2,000	1,900	37	70	3,000	2,800	43	120
Grand Traverse	1,500	1,300	55	72	1,600	1,500	38	57
Missaukee	800	800	68	54	700	700	59	41
Other counties [2]	1,700	1,700	49	84	1,700	1,700	31	52
Northwest	4,000	3,800	55	210	4,000	3,900	38	150
Alcona					1,500	1,500	67	100
Alpena	4,100	4,100	63	258	3,300	3,200	46	147
Iosco	1,800	1,800	78	140	1,800	1,800	67	120
Montmorency	1,000	1,000	62	62	800	800	56	45
Ogemaw	1,200	1,200	86	103	1,300	1,200	71	85
Otsego					500	400	43	17
Presque Isle	3,300	3,300	49	162	3,600	3,500	53	185
Other counties [2]	1,600	1,600	59	95	200	200	55	11
Northeast	13,000	13,000	63	820	13,000	12,600	56	710
Mason	4,100	3,800	60	227	2,300	2,200	45	98
Muskegon	3,500	1,950	61	119	2,400	1,200	48	57
Newaygo					1,500	1,400	46	65
Oceana	2,000	1,950	56	109	1,800	1,700	41	70
Other counties [2]	2,400	2,300	59	135				
West Central	12,000	10,000	59	590	8,000	6,500	45	290
Clare	1,000	1,000	72	72	900	900	59	53
Gladwin	2,000	1,900	62	117	1,600	1,500	75	113
Gratiot	25,300	25,200	76	1,910	19,000	18,400	67	1,230
Isabella	20,500	19,500	77	1,510	17,600	17,200	57	976
Mecosta	2,200	2,100	42	88	1,500	1,500	45	68
Midland	5,600	5,500	75	415	5,200	5,000	74	372
Montcalm	14,900	14,800	66	975	12,500	12,400	51	632
Osceola	500	500	66	33	700	600	43	26
Central	72,000	70,500	73	5,120	59,000	57,500	60	3,470
Arenac	8,100	8,050	78	630	7,600	7,500	73	550
Bay	15,800	15,750	81	1,280	15,900	15,500	72	1,120
Huron	58,300	58,100	86	4,970	63,000	59,500	80	4,740
Saginaw	31,000	30,600	82	2,500	27,000	25,500	68	1,740
Sanilac	62,500	62,300	80	4,990	52,000	51,000	76	3,870
Tuscola	34,300	34,200	77	2,630	34,500	34,000	69	2,330
East Central	210,000	209,000	81	17,000	200,000	193,000	74	14,350
Allegan	10,600	10,300	71	728	7,000	6,800	47	317
Berrien	5,800	5,700	62	355	4,700	4,500	52	235
Cass	4,800	3,000	60	181	4,800	4,700	53	248
Kalamazoo	4,900	4,700	57	270	4,000	4,000	51	202
Kent	5,900	5,700	71	405	5,700	5,600	49	276
Ottawa	6,900	6,800	69	466	5,200	5,000	47	236
Van Buren	2,100	1,600	53	85	1,600	1,400	47	66
Southwest	41,000	37,800	66	2,490	33,000	32,000	49	1,580

See footnote(s) at end of table.

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Wheat: Acreage, yield, and production, by county, 2006-2007 [1] (continued)

County and district	2006				2007			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	Acres	*Acres*	*Bushels*	*1,000 Bu*	*Acres*	*Acres*	*Bushels*	*1,000 Bu*
Barry	8,700	8,700	66	570	5,500	5,400	57	308
Branch	7,900	7,800	60	467	6,300	6,100	50	308
Calhoun	11,900	11,900	61	729	10,000	9,800	49	478
Clinton	25,800	25,700	76	1,960	22,000	21,100	63	1,330
Eaton	20,700	20,700	71	1,460	14,500	14,300	64	920
Hillsdale	16,400	16,300	63	1,030	14,000	13,400	53	713
Ingham	18,700	18,600	74	1,380	16,200	15,800	66	1,040
Ionia	13,300	13,300	66	875	11,100	10,900	63	691
Jackson	11,000	10,900	57	621	8,300	8,200	53	432
St Joseph	4,000	3,600	58	208	5,000	3,800	53	200
Shiawassee	31,600	31,500	67	2,100	27,100	26,200	61	1,610
South Central	170,000	169,000	67	11,400	140,000	135,000	59	8,030
Genesee	12,400	12,400	62	774	7,300	7,000	58	403
Lapeer	11,200	11,000	70	773	7,500	7,400	57	425
Lenawee	38,500	38,500	76	2,926	32,500	31,800	73	2,320
Livingston	8,100	8,100	77	625	8,000	7,900	53	415
Macomb	5,000	4,900	62	303	2,500	2,300	59	136
Monroe	27,200	27,000	77	2,070	22,500	21,800	72	1,580
Oakland	900	900	61	55				
St Clair	16,700	16,600	74	1,230	5,500	4,700	68	320
Washtenaw	15,500	15,100	64	970	13,000	12,600	59	745
Wayne	500	500	48	24				
Other counties [2]					1,200	1,200	47	56
Southeast	136,000	135,000	72	9,750	100,000	96,700	66	6,400
Michigan	660,000	650,000	73	47,450	560,000	540,000	65	35,100

[1] Estimates not published for counties with less than 500 acres.
[2] Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Cattle: January 1, by county, 2007-2008 [1]

County and district	All cattle and calves		Milk cows	
	2007	2008	2007	2008
	Head	*Head*	*Head*	*Head*
Alger	1,900	1,800	500	
Baraga	1,200	1,500		
Chippewa	9,500	8,600	1,000	1,100
Delta	8,500	8,200	1,600	1,700
Dickinson	3,000	2,800	500	550
Houghton	1,400	1,000		
Iron	1,600	1,800		
Mackinac	2,300	2,800	700	800
Marquette	1,600	2,100		
Menominee	17,500	17,400	7,000	7,000
Ontonagon	2,900	2,700		
Schoolcraft	1,400	1,300		
Other counties [2]	1,200	1,000	1,700	1,850
Upper Peninsula	54,000	53,000	13,000	13,000
Antrim	4,000	4,300	750	600
Benzie	1,500	1,500		
Charlevoix	3,300	3,400	650	600
Emmet	5,500	5,000	750	700
Grand Traverse	4,800	4,700		
Kalkaska	1,100	1,100		
Leelanau	3,100	3,000		
Manistee	2,400	2,600		
Missaukee	27,000	27,500	12,000	12,500
Wexford	4,300	3,900	750	700
Other counties [2]			1,100	900
Northwest	57,000	57,000	16,000	16,000
Alcona	6,000	5,500	1,100	1,400
Alpena	10,000	9,800	3,300	3,400
Cheboygan	6,200	6,000	1,000	950
Iosco	8,300	7,500	2,200	2,000
Montmorency	3,100	3,000	700	650
Ogemaw	13,500	13,400	5,600	5,800
Oscoda	3,100	3,400		
Otsego	2,600	2,300		
Presque Isle	6,700	6,500	1,400	1,500
Other counties [2]	500	600	700	800
Northeast	60,000	58,000	16,000	16,500
Lake	2,000	1,900		
Mason	8,500	8,700	2,400	2,500
Muskegon	20,500	19,800		
Newaygo	24,000	23,500	12,900	13,500
Oceana	8,000	8,100	2,300	2,300
Other counties [2]			6,400	6,200
West Central	63,000	62,000	24,000	24,500
Clare	12,500	12,000	2,400	2,500
Gladwin	7,000	7,500		
Gratiot	33,000	35,000	12,000	12,500
Isabella	25,500	29,000	7,600	7,700
Mecosta	15,000	15,000	4,800	4,600
Midland	6,000	6,000		
Montcalm	27,000	28,000	9,600	10,000
Osceola	21,000	20,500	5,300	5,600
Other counties [2]			5,300	5,600
Central	147,000	153,000	47,000	48,500
Arenac	7,000	7,100	2,800	3,000
Bay	5,000	5,000	1,400	1,600
Huron	102,000	105,500	25,400	29,100
Saginaw	8,000	9,400	2,600	2,400
Sanilac	54,000	54,000	20,000	21,000
Tuscola	19,000	20,000	4,800	4,900
East Central	195,000	201,000	57,000	62,000
Allegan	45,000	53,000	19,000	20,700
Berrien	5,000	4,600	1,600	1,600
Cass	5,500	6,000	600	500
Kalamazoo	12,000	11,200		
Kent	29,000	30,000	10,100	10,000
Ottawa	45,000	42,200	11,200	12,300
Van Buren	7,500	8,000		
Other counties [2]			9,500	10,400
Southwest	149,000	155,000	52,000	55,500
Barry	25,000	23,000	9,700	11,100
Branch	14,000	13,000	3,000	3,100
Calhoun	16,000	16,000	4,100	4,200
Clinton	48,000	48,000	21,500	22,500
Eaton	12,000	11,500	1,900	2,000
Hillsdale	26,000	25,800	10,900	10,300
Ingham	19,000	20,500	5,600	6,000
Ionia	35,000	36,000	12,100	15,000
Jackson	24,000	22,200	4,000	4,000
St Joseph	8,000	7,000	1,500	1,800
Shiawassee	13,000	13,000	3,200	3,000
South Central	240,000	236,000	77,500	83,000
Genesee	7,200	7,500	1,700	1,500
Lapeer	16,500	17,000	3,900	4,000
Lenawee	31,000	29,000	10,200	11,000
Livingston	8,000	9,000	2,900	2,900
Macomb	4,000	3,700	600	700
Monroe	4,500	4,000		
St Clair	11,000	11,000	1,500	1,200
Washtenaw	11,000	12,000	2,900	3,000
Other counties [2]	1,800	1,800	800	700
Southeast	95,000	95,000	24,500	25,000
Michigan	1,060,000	1,070,000	327,000	344,000

[1] Estimates are not published for counties with less than 500 head.
[2] Not published separately because of insufficient data or to avoid disclosure of individual operations.

Dairy: Number of operations and total milk produced, by county, 2006-2007 [1]

County and district	2006		2007	
	Operations	Total milk produced	Operations	Total milk produced
	Number	*1,000 pounds*	*Number*	*1,000 pounds*
Alger	9		7	
Baraga	2		3	
Chippewa	13	14,300	12	13,400
Delta	20	18,900	19	20,300
Dickinson	8	10,100	8	7,400
Houghton	4		4	
Mackinac	7	15,800	7	15,100
Marquette	5		5	
Menominee	63	132,000	59	106,000
Ontonagon	8		5	
Schoolcraft	1		1	
Other counties [2]		28,900		27,800
Upper Peninsula	140	220,000	130	190,000
Antrim	9	12,600	7	11,100
Charlevoix	7	11,500	6	11,300
Emmet	8	12,200	9	10,300
Grand Traverse	8		7	
Kalkaska	3		2	
Leelanau	8		7	
Manistee	3		5	
Missaukee	68	258,000	63	293,000
Wexford	16	13,300	14	12,200
Other counties [2]		12,400		10,100
Northwest	130	320,000	120	348,000
Alcona	10	17,700	10	20,500
Alpena	46	59,700	45	60,600
Cheboygan	8	20,200	8	14,300
Iosco	18	43,200	18	45,000
Montmorency	11	14,500	10	14,000
Ogemaw	41	111,000	40	114,000
Oscoda	17		16	
Otsego	2		2	
Presque Isle	17	25,400	16	23,700
Other counties [2]		13,300		12,900
Northeast	170	305,000	165	305,000
Lake	4		4	
Mason	27	45,000	27	45,900
Muskegon	27		26	
Newaygo	81	179,000	79	186,000
Oceana	26	25,400	24	22,400
Other counties [2]		150,600		145,700
West Central	165	400,000	160	400,000
Clare	46	57,000	44	55,000
Gladwin	60		58	
Gratiot	43	376,000	42	446,000
Isabella	83	145,000	80	146,000
Mecosta	120	77,500	119	74,500
Midland	5		5	
Montcalm	98	205,000	94	227,000
Osceola	65	140,000	63	147,000
Other counties [2]		39,500		34,500
Central	520	1,040,000	505	1,130,000
Arenac	23	72,000	23	74,600
Bay	14	24,000	14	24,400
Huron	138	607,000	132	717,000
Saginaw	30	54,000	28	53,000
Sanilac	190	361,000	183	400,000
Tuscola	50	112,000	45	121,000
East Central	445	1,230,000	425	1,390,000
Allegan	97	397,000	93	409,000
Berrien	13	46,700	13	41,000
Cass	13	7,300	12	5,000
Kalamazoo	13		12	
Kent	57	179,000	54	184,000
Ottawa	84	445,000	79	457,000
Van Buren	18		17	
Other counties [2]		225,000		234,000
Southwest	295	1,300,000	280	1,330,000
Barry	40	239,000	40	298,000
Branch	66	64,000	64	61,200
Calhoun	42	121,000	40	121,000
Clinton	79	522,000	78	610,000
Eaton	34	33,500	34	33,300
Hillsdale	154	136,000	153	150,000
Ingham	44	120,000	43	127,000
Ionia	67	270,000	66	292,000
Jackson	32	118,000	31	72,500
St Joseph	34	34,000	34	92,700
Shiawassee	38	62,500	37	62,300
South Central	630	1,720,000	620	1,920,000
Genesee	15	32,000	13	28,200
Lapeer	59	67,800	56	60,900
Lenawee	36	310,000	35	331,000
Livingston	17	66,500	16	65,200
Macomb	12	9,400	12	7,900
Monroe	6		6	
Oakland	2		2	
St Clair	25	27,900	23	25,200
Washtenaw	33	55,500	32	55,400
Other counties [2]		10,900		11,200
Southeast	205	580,000	195	585,000
Michigan	2,700	7,115,000	2,600	7,598,000

[1] Production estimates are not published for counties with 5 or fewer farms or with less than 5 million pounds of annual production. An operation is any place having one or more head on hand at any time during the year.
[2] 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	www.ams.usda.gov/marketnews.htm
APHIS-Animal and Plant Health Inspection Service	www.aphis.usda.gov
ERS-Economic Research Service	www.ers.usda.gov
FSA-Farm Service Agency	www.fsa.usda.gov
MDA-Michigan Department of Agriculture	www.michigan.gov/mda
MSU Extension	www.msue.msu.edu
NASS-National Agricultural Statistics Service	www.nass.usda.gov
NRCS-Natural Resources Conservation Service	www.nrcs.usda.gov
RD-Rural Development	www.rurdev.usda.gov
USDA-United States Department of Agriculture	www.usda.gov
USDA, NASS, Michigan Field Office	www.nass.usda.gov

Commodity Groups

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

Other Related Sites

American Farm Bureau Federation	www.fb.org
GreenStone Farm Credit Services	www.greenstonefcs.com
Michigan Farm Bureau	www.michiganfarmbureau.com
Michigan Food and Farming Systems (MIFFS)	www.miffs.org
Michigan Market Maker	www.mimarketmaker.msu.edu
MSU Agriculture Weather Office	www.agweather.geo.msu.edu

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- **Michigan Department of Agriculture (MDA)**

  MDA home page at: **www.michigan.gov/mda**

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

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

  On the Michigan Internet page, you will find up-to-date data such as Crop-Weather releases, News releases, *Agriculture Across Michigan*, and county estimates.

- **National Agricultural Statistics Service (NASS)**

  NASS home page at: **www.nass.usda.gov**

You can access national releases, 2002 Census of Agriculture data, and home pages of **NASS** Field Offices including Michigan from this web site. ***Michigan Crop Weather*** and national releases by free e-mail subscription are available from this site.

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