

# Michigan Agricultural Statistics 2017-2018



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**Rank in U.S. agriculture by selected commodities, 2017**

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			<i>Thousands</i>	<i>Percent</i>	
<b>1</b>	Asparagus	Cwt	243	36.2	Michigan
	Beans, dry, black	Cwt	2,456	48.0	Michigan
	Beans, dry, cranberry	Cwt	58	31.2	Michigan
	Cucumbers	Cwt	5,625	28.2	Michigan
	Cherries, tart	Pounds	189,200	72.9	Michigan
	Grapes, Niagara	Tons	17.7	31.8	Michigan
	Squash	Cwt	1,311	22.5	Michigan
<b>2</b>	Beans, dry, all	Cwt	4,394	12.3	North Dakota
	Beans dry, navy	Cwt	1,559	37.5	North Dakota
	Beans, dry, small red	Cwt	90	20.5	Idaho
	Celery	Cwt	944	6.0	California
<b>3</b>	Apples	Pounds	840,000	7.4	Washington
	Beans, dry, light red kidney	Cwt	89	9.9	Minnesota
	Blueberries	Pounds	102,000	19.6	Washington
	Snap beans	Cwt	1,780	9.9	Wisconsin
<b>4</b>	Alfalfa haylage and greenchop	Tons	1,800	9.0	Wisconsin
	Carrots	Cwt	1,480	4.9	California
	Cherries, sweet	Tons	21.3	4.9	Washington
	Grapes, Concord	Tons	38.8	9.2	Washington
	Sugarbeets	Tons	3,604	10.2	Minnesota
<b>5</b>	All haylage and greenchop	Tons	1,902	6.2	Wisconsin
	Tomatoes	Cwt	3,080	1.2	California
<b>6</b>	Grapes	Tons	63.6	0.9	California
	Milk	Pounds	11,231,000	5.2	California
	Pumpkins	Cwt	759.5	4.8	Illinois
<b>7</b>	Bell peppers	Cwt	459	3.1	California
	Egg Production	Eggs	4,224,700	4.0	Iowa
	Maple Syrup	Gallons	110	2.6	Vermont
<b>8</b>	Cabbage	Cwt	1,428	6.1	California
	Grapes, wine	Tons	7.9	0.2	California
	Peaches	Tons	9.1	1.3	California
	Potatoes	Cwt	18,000	4.1	Idaho
	Oats	Bushels	2,160	4.4	Minnesota
<b>9</b>	Corn for Silage	Tons	6,290	4.9	Wisconsin
	Honey	Pounds	3,915	2.6	North Dakota
<b>10</b>	Goats, milk, January 1, 2018	Head	11.5	3.0	Wisconsin
<b>12</b>	Sweet Corn	Cwt	910	1.1	Minnesota
	Turkeys, raised	Head	5,100	2.1	Minnesota
	Wheat, winter	Bushels	33,575	2.6	Kansas
<b>13</b>	Corn for grain	Bushels	300,510	2.0	Iowa
	Hogs, as of Dec. 1, 2017	Head	1,180	1.6	Iowa
<b>15</b>	Soybeans	Bushels	96,475	2.2	Illinois
<b>16</b>	Hay, alfalfa	Tons	1,708	3.1	California
<b>18</b>	Sheep, January 1, 2018	Head	80.0	1.5	Texas
<b>19</b>	Cash receipts	Dollars	7,383,531	2.0	California
<b>27</b>	Cattle, as of Jan. 1, 2018	Head	1,160	1.2	Texas

# Farm Economics

**Number of farms and land in farms by economic sales class, 2013-2017 <sup>1</sup>**

Year	Economic sales class					Total	Average size of farm
	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000+		
	<i>1,000 farms</i>	<i>1,000 farms</i>	<i>1,000 farms</i>	<i>1,000 farms</i>	<i>1,000 farms</i>	<i>1,000 farms</i>	
2013	26.30	15.30	3.90	2.60	3.90	52.00	
2014	25.80	14.80	4.20	2.70	4.10	51.60	
2015	25.60	14.70	4.10	2.90	4.20	51.50	
2016	25.50	14.60	4.20	2.90	4.20	51.40	
2017	24.50	15.10	4.50	2.70	4.10	50.90	
	<i>Million acres</i>	<i>Million acres</i>	<i>Million acres</i>	<i>Million acres</i>	<i>Million acres</i>	<i>Million acres</i>	<i>Acres</i>
2013	1.37	1.68	1.00	1.10	4.80	9.95	191
2014	1.10	1.70	1.05	1.20	4.90	9.95	193
2015	1.05	1.65	1.05	1.25	4.95	9.95	193
2016	1.10	1.60	1.10	1.20	4.95	9.95	194
2017	1.10	1.70	0.90	1.10	5.15	9.95	195

<sup>1</sup> USDA estimates of farm numbers 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, 2014-2018**

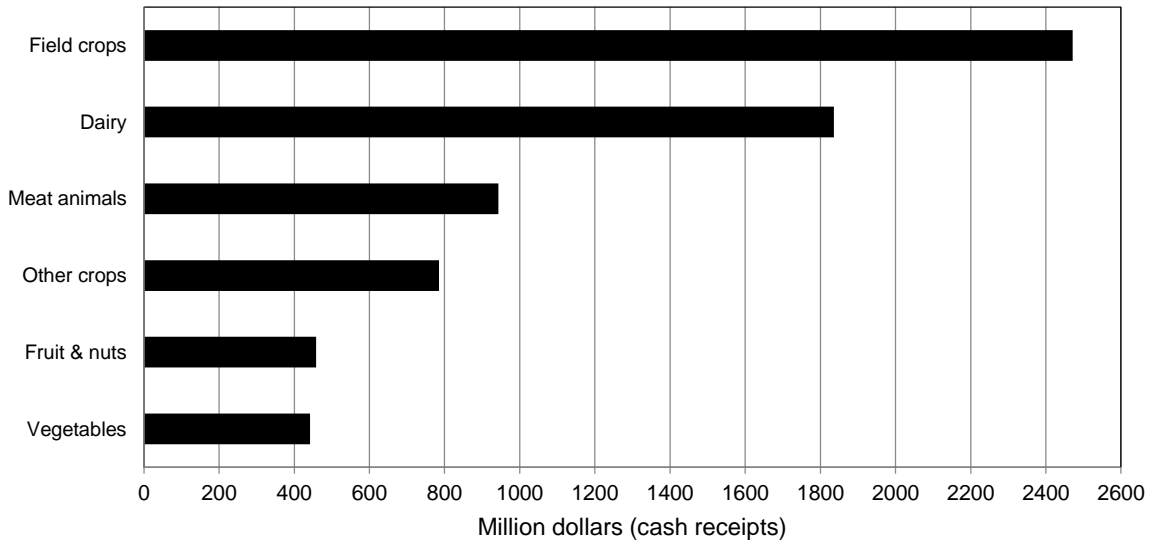
Year	Farm real estate average value per acre	Cropland		Pasture
		Average value per acre	Average cash rent per acre	Average value per acre
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2014	4,700	4,500	123	2,500
2015	4,900	4,550	118	2,680
2016	4,800	4,500	127	2,600
2017	4,800	4,450	123	2,550
2018	4,780	4,350	123	2,510

**Government payments, 2013-2017 <sup>1</sup>**

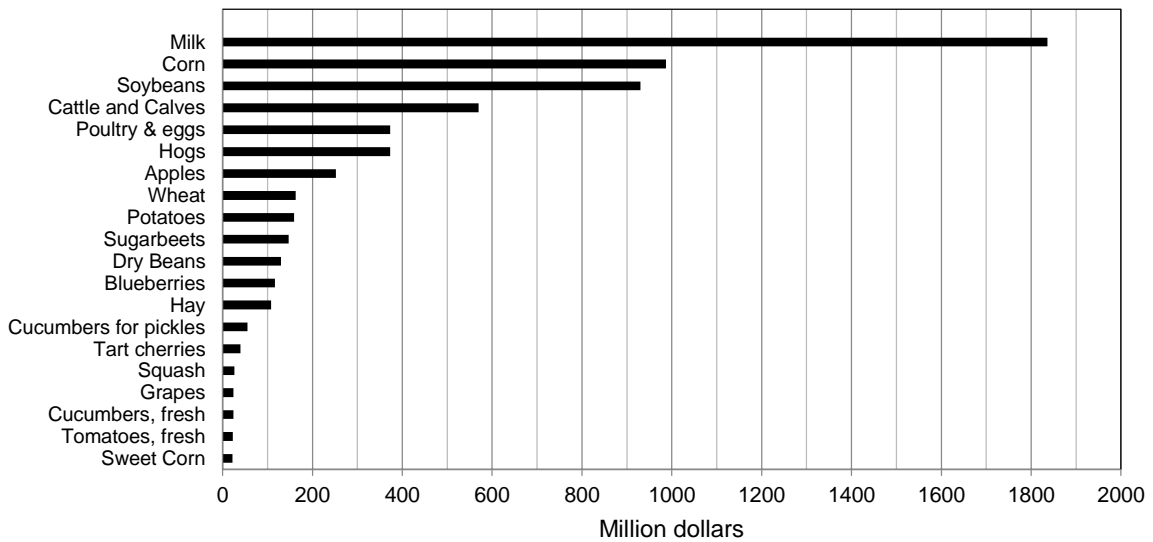
Program	2013	2014	2015	2016	2017
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Conservation programs	52,098	46,053	39,526	34,269	38,564
BMAC-Biomass crop assistance	0	43	151	81	30
Direct payments	71,160	318	-154	-230	122
Counter-cyclical payments	0	0	-2	0	0
Loan deficiency payments	-1	0	-5	1	0
Miscellaneous programs	0	0	-1	0	195
Ad Hoc and emergency programs	8,017	14,143	2,864	5,016	2,373
Milk income loss payments	11,367	25	-15	4	-2
ACRE	-224	-3	0	0	0
ARC-Agricultural Risk Coverage			144,743	152,873	149,528
PLC-Price Loss Coverage			0	3,180	9,764
Dairy Margin Protection Program			49	213	0
Total	142,418	60,578	187,155	195,406	200,576

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

### Major Michigan Commodity Groups, 2017



### Top 20 Commodities in Cash Receipts, 2017



**Value added to the economy by the Michigan agricultural sector 2013-2017 <sup>1</sup>**

Item <sup>2</sup>	2013	2014	2015	2016	2017
	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>
Value of crop production	5,423.7	4,472.4	4,295.0	4,258.8	3,916.9
Food grains	280.5	215.0	212.8	196.7	166.7
Feed crops	1,658.9	1,427.9	1,335.7	1,156.8	1,096.6
Oil crops	1,113.7	920.2	813.9	1,027.5	930.4
Fruits and tree nuts	534.5	478.5	437.0	565.9	458.2
Vegetables, potatoes, dry beans	599.6	554.4	609.7	556.7	572.3
All other crops	1,076.5	997.2	994.9	973.7	932.4
Home consumption	5.2	5.8	6.8	3.5	4.4
Value of inventory adjustment <sup>3</sup>	154.7	-126.7	-115.7	-221.9	-244.2
Value of livestock production	3,323.4	3,973.6	3,470.3	2,973.5	3,215.2
Meat animals	947.8	1,076.6	978.3	834.1	942.8
Dairy products	1,872.9	2,309.5	1,698.7	1,637.1	1,836.1
Poultry and eggs	432.1	498.2	680.1	358.9	373.2
Miscellaneous livestock	75.2	79.1	77.1	77.4	74.8
Home consumption	10.6	9.0	8.7	7.5	6.4
Value of inventory adjustment <sup>3</sup>	-15.3	1.2	27.5	58.3	-18.1
Farm related income	939.1	966.5	1,141.9	930.3	971.1
Forest products sold	5.6	7.7	22.0	23.0	19.8
Machine hire and custom work	70.9	123.0	191.2	101.3	87.3
Other farm income	448.8	377.2	507.8	383.3	405.5
Gross imputed rental value-farm dwellings	413.8	458.6	420.9	422.7	458.5
Value of agricultural sector production	9,686.1	9,412.5	8,907.3	8,162.6	8,103.2
<b>less:</b> Purchased inputs	5,236.1	5,628.4	5,234.1	5,078.6	4,878.7
Farm origin	2,053.4	2,239.7	2,195.4	2,173.1	1,976.8
Feed purchased	1,122.8	1,345.3	1,275.4	1,284.4	1,131.7
Livestock and poultry purchased	152.8	151.2	178.7	119.9	231.9
Seed purchased	777.9	743.2	741.3	768.7	613.2
Manufactured inputs	1,623.0	1,674.1	1,457.6	1,308.3	1,263.2
Fertilizers and lime	735.7	731.2	641.6	573.2	496.2
Pesticides	364.4	338.1	332.6	328.0	337.1
Petroleum fuel and oils	415.3	465.4	353.7	285.8	303.7
Electricity	107.6	139.4	129.7	121.3	126.0
Other intermediate expenses	1,559.7	1,714.6	1,581.1	1,597.2	1,638.8
Repair and maintenance of capital items	499.6	526.6	424.6	426.7	481.7
Machine hire and custom work	98.4	127.6	131.7	95.7	107.7
Marketing, storage, and transp. expenses	149.5	248.9	229.7	202.7	262.6
Miscellaneous expenses	812.2	811.5	795.2	872.1	786.7
Contract labor	23.3	51.0	83.1	32.2	67.8
<b>plus:</b> Net government transactions	-183.1	-343.7	-257.8	-187.8	-211.5
Direct Government payments	142.4	60.6	187.2	195.4	200.6
Property taxes and fees	325.5	404.2	445.0	383.2	412.1
Gross value added	4,243.6	3,389.4	3,332.2	2,864.0	2,945.2
<b>less:</b> Capital consumption	842.7	1,107.5	972.3	1,027.0	907.4
Net value added	3,400.9	2,281.9	2,360.0	1,837.0	2,037.8
<b>less:</b> Payments to stakeholders	1,564.9	1,617.7	1,593.9	1,823.4	1,432.9
Employee compensation (total hired labor)	807.7	949.7	922.2	1,067.9	662.6
Net rent paid to landlords	397.7	287.8	275.6	336.3	318.3
Real estate and nonreal estate interest	359.5	380.2	396.0	419.2	451.9
<b>Net farm income</b>	1,836.0	664.2	766.1	13.7	604.9

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

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

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



**Cash receipts by commodity groups and selected commodities 2013-2017 <sup>1</sup>**

Item	2013	2014	2015	2016	2017
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
<b>Total cash receipts</b>	8,592,363	8,556,735	7,838,072	7,384,846	7,383,531
<b>Total livestock and products</b>	3,328,062	3,963,501	3,434,179	2,907,660	3,226,907
Meat animals	947,839	1,076,623	978,264	834,148	942,756
Cattle and calves	552,137	679,256	624,664	529,060	570,066
Hogs	395,702	397,367	353,600	305,088	372,690
Dairy (milk)	1,872,880	2,309,503	1,698,678	1,637,142	1,836,144
Poultry and eggs	432,100	498,242	680,100	358,945	373,204
Miscellaneous livestock	75,243	79,133	77,137	77,425	74,803
<b>Total crops</b>	5,264,302	4,593,234	4,403,893	4,477,186	4,156,624
Field crops	3,504,128	2,930,130	2,737,818	2,681,475	2,471,173
Corn	1,535,417	1,294,288	1,195,872	1,042,656	986,838
Dry beans	164,659	149,044	159,408	110,288	130,177
Hay	120,811	129,955	136,951	112,908	108,144
Soybeans	1,113,748	920,211	813,868	1,027,505	930,350
Sugarbeets	285,787	215,155	216,052	189,609	146,793
Wheat	278,671	212,305	209,518	193,167	162,463
Other	5,035	9,172	6,149	5,342	6,408
Vegetables	434,930	405,204	450,252	446,372	442,130
Asparagus	18,640	20,505	19,754	20,165	20,816
Cabbage, fresh	11,040	13,392	16,269	12,075	13,718
Celery	20,359	18,853	18,897	12,605	12,675
Corn, sweet (fresh)	23,400	20,452	24,102	21,828	21,828
Cucumbers, fresh	13,965	13,872	13,498	27,532	23,890
Cucumbers, processing	37,352	35,099	37,642	41,614	55,649
Onions	11,082	11,094	10,053	10,053	10,053
Peppers, bell	13,875	13,468	14,896	14,430	12,531
Potatoes	177,210	177,361	174,226	168,269	159,280
Pumpkins	11,212	11,398	12,080	11,909	8,314
Snap beans, fresh	7,125	8,172	11,490	15,244	10,145
Snap beans, processing	18,518	2,548	16,376	17,019	15,753
Squash	17,690	18,032	19,543	22,020	26,543
Tomatoes, fresh	31,680	16,636	41,808	18,747	22,282
Tomatoes, processing	13,600	15,116	11,120	15,172	13,705
Other	8,182	9,206	8,498	17,690	14,948
Fruits and nuts	534,533	478,467	436,971	565,857	458,238
Apples	254,953	221,115	233,288	325,195	251,795
Blueberries	125,200	123,840	98,925	130,350	116,400
Grapes	35,017	19,954	25,734	29,127	24,075
Peaches	13,972	7,758	5,906	9,210	10,185
Strawberries	7,095	7,258	4,375		
Sweet cherries	21,012	27,708	13,570	18,185	16,090
Tart cherries	74,515	68,827	53,499	53,790	39,693
Other	2,769	2,007	1,674		
All other crops	790,711	779,433	778,852	783,482	785,083
Floriculture	418,931	413,939	409,078		
Miscellaneous crops <sup>2</sup>	371,780	365,494	369,774	783,482	785,083

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

<sup>2</sup> Includes field crops, fruits, vegetables, and specialty crops not listed above.

### Corn production costs and returns, 2016-2017

Item	United States		Northern Crescent <sup>1</sup>	
	2016	2017	2016	2017
	<i>Dollars per planted acre</i>	<i>Dollars per planted acre</i>	<i>Dollars per planted acre</i>	<i>Dollars per planted acre</i>
Gross value of production	620.23	620.06	586.72	603.20
Operating costs				
Seed	100.10	98.84	99.24	98.08
Fertilizer <sup>2</sup>	128.68	116.44	136.08	123.28
Chemicals	36.16	35.63	33.74	33.26
Custom operations	23.84	23.15	30.65	29.88
Fuel, lube, and electricity	23.78	28.11	22.59	26.68
Repairs	32.30	32.89	27.28	27.74
Purchased irrigation water	0.25	0.25	0.00	0.00
Interest on operating capital	0.79	1.76	0.80	1.78
Total, operating costs	345.90	337.07	350.38	340.70
Allocated overhead				
Hired labor	4.01	4.11	3.52	3.59
Opportunity cost of unpaid labor	21.63	22.17	27.92	28.67
Capital recovery-machinery & equipment	118.87	121.48	103.64	105.86
Opportunity cost of land (rental rate)	171.82	169.92	120.18	120.81
Taxes and insurance	11.74	11.87	13.72	13.93
General farm overhead	18.08	18.37	24.97	25.41
Total, allocated overhead	346.15	347.92	293.95	298.27
Total, costs listed	692.05	684.99	644.33	638.97
Value of production less total costs listed	-71.82	-64.93	-57.61	-35.77
Value of production less operating costs	274.33	282.99	236.34	262.50
Supporting information				
Yield (bushels per planted acre)	188	190	173	177
Price (dollars per bushel at harvest)	3.29	3.26	3.36	3.36
Enterprise size (planted acres) <sup>3</sup>	268	268	140	140
Production practices <sup>3</sup>				
Irrigated (percent)	11	11	2	2
Dryland (percent)	89	89	98	98

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

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

<sup>3</sup> Developed from survey base year, 2016.

### Soybean production costs and returns, 2016-2017

Item	United States		Northern Crescent <sup>1</sup>	
	2016	2017	2016	2017
	<i>Dollars per planted acre</i>	<i>Dollars per planted acre</i>	<i>Dollars per planted acre</i>	<i>Dollars per planted acre</i>
Gross value of production	491.92	454.72	499.79	416.25
Operating costs				
Seed	58.79	58.12	63.06	62.32
Fertilizer <sup>2</sup>	28.14	25.26	38.85	35.21
Chemicals	27.64	27.11	22.34	21.99
Custom operations	10.60	10.31	13.31	12.94
Fuel, lube, and electricity	11.89	14.12	9.84	11.65
Repairs	22.82	23.36	19.69	20.06
Purchased irrigation water	0.06	0.06	0.00	0.00
Interest on operating capital	0.37	0.83	0.39	0.86
Total, operating costs	160.31	159.17	167.48	165.03
Allocated overhead				
Hired labor	3.19	3.26	1.83	1.88
Opportunity cost of unpaid labor	18.90	19.40	19.36	19.89
Capital recovery-machinery & equipment	88.84	91.14	75.68	77.32
Opportunity cost of land (rental rate)	143.72	142.86	116.50	116.50
Taxes and insurance	10.52	10.66	10.99	11.14
General farm overhead	17.98	18.27	22.88	23.31
Total, allocated overhead	283.15	285.59	247.24	250.04
Total, costs listed	443.46	444.76	414.72	415.07
Value of production less total costs listed	48.46	9.96	85.07	1.18
Value of production less operating costs	331.61	295.55	332.31	251.22
Supporting information				
Yield (bushels per planted acre)	52	49	53	45
Price (dollars per bushel at harvest)	9.46	9.28	9.43	9.25
Enterprise size (planted acres) <sup>3</sup>	273	273	136	136
Production practices <sup>3</sup>				
Irrigated (percent)	10	10	3	3
Dryland (percent)	90	90	97	97

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

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

<sup>3</sup> Developed from survey base year, 2012.

**Prices paid index for agricultural production items, U.S., base=2011**

Commodity	2013	2014	2015	2016	2017
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Feed, grains	102.2	70.7	64.1	58.4	56.8
Feed, complete	120.5	121.5	114.5	110.0	102.6
Feed, concentrates	124.1	135.5	118.0	117.9	100.9
Feed, forage	118.2	113.5	98.3	86.9	90.1
Nitrogen	104.2	102.2	91.1	71.6	66.5
Potash & Phosphate	95.4	94.5	84.6	70.5	64.4
Fungicides	106.4	104.5	101.7	98.7	94.4
Herbicides	108.0	109.7	107.4	109.7	105.6
Insecticides	111.1	112.1	107.2	107.7	102.3
Seeds & Plants	110.2	113.5	124.6	121.4	119.9
Cows, milk replacement	97.2	129.2	140.3	124.7	114.3
Feeder cattle	109.2	157.2	156.4	104.7	106.5
Feeder pigs	112.7	181.6	96.7	90.2	100.9
Fuels, diesel	97.0	92.1	61.2	51.8	57.6
Fuels, gasoline	102.8	104.0	67.2	59.0	64.5
Fuels, LP gas	97.3	112.1	67.2	65.4	82.4
Machinery, self propelled	109.1	114.4	118.1	118.7	120.6
Tractors	106.2	108.2	109.6	111.1	112.6
Trucks & Autos	103.4	104.4	105.5	106.0	106.0
Building materials	104.6	106.9	107.4	107.6	110.4
Supplies & Repairs	103.8	105.7	105.8	106.0	107.9
Labor	106.3	108.0	111.9	115.9	119.1
Custom Rates	106.1	109.3	111.8	111.6	114.3
Interest	93.3	93.1	98.4	103.9	112.2
Rent	105.6	114.2	130.3	123.8	123.8
Taxes	103.4	116.3	109.9	114.7	116.3

## Farm Labor

**Hired farm workers: Annual average wage rates, 2013-2017 <sup>1</sup>**

Year	All hired workers	Field workers	Field and livestock workers
	<i>Dollars per hour</i>	<i>Dollars per hour</i>	<i>Dollars per hour</i>
2013	12.15	11.96	11.49
2014	12.18	11.73	11.56
2015	12.86	12.11	12.02
2016	13.30	13.17	12.75
2017	13.79	13.02	13.06

<sup>1</sup> Lake States region (Michigan, Minnesota, and Wisconsin).

# Agricultural Exports

## Michigan agricultural exports by commodity and year <sup>1</sup>

Commodity	2015	2016	2017
	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Prepared foods	365,241	319,390	321,279
Forest products	175,128	173,584	188,728
Soybeans	109,425	112,278	147,827
Fresh vegetables	158,735	154,454	141,586
Dairy products	89,254	87,870	108,939
Beef & beef products	168,357	146,382	101,697
Processed fruit	74,973	81,158	86,914
Pulses	58,975	81,748	77,655
Seeds for planting	45,340	63,001	57,555
Hides & skins	63,942	60,807	54,262
Wine & beer	21,839	44,630	53,352
Distillers grains	33,951	44,578	50,176
Processed vegetables	44,456	37,642	41,542
Pork & pork products	18,558	21,195	24,628
Soybean meal	22,022	28,077	23,705
Corn	25,423	16,773	18,587
Fresh fruit	14,201	18,824	18,373
Feeds & fodders	41,282	23,838	14,002
Sugars & sweeteners	27,456	25,688	13,277
Nursery products & cut flowers	9,795	9,434	9,932
Other	479,465	417,715	380,498
Total	2,047,818	1,969,066	1,934,514

<sup>1</sup> Source: U.S. Department of Agriculture, Foreign Agricultural Service

## Michigan agricultural exports: Top 10 destinations, 2016-2017 <sup>1</sup>

Country	2016	2017
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	1,076,676	923,332
Mexico	130,704	166,249
China	129,777	153,508
Japan	101,820	117,855
Thailand	75,511	93,448
South Korea	86,268	77,554
Indonesia	34,980	46,980
Taiwan	40,659	38,296
Germany	24,606	31,833
Netherlands	22,104	30,932
Others	245,961	254,527
Total	1,969,066	1,934,514

<sup>1</sup> Source: U.S. Department of Agriculture, Foreign Agricultural Service

# Field Crops

## Growing Season Weather Summary

Dr. Jeff Andresen, Michigan State University

The 2017 growing season was warmer and wetter than normal in most areas. Crops in some areas were hurt by extended dryness during the latter part of the summer and by excessive rainfall late in the season elsewhere. The preceding winter was also milder and wetter than normal. The statewide mean temperatures was 26.8°F (6.6°F above normal), and the average total precipitation was 7.1” (1.79” above normal). It was the 6<sup>th</sup> warmest winter on record.

Precipitation totals from mid-March through mid-April ranged from less than 2.0” to more than 6.0” (more than 200% of normal), and soils by were left at field capacity to saturation by mid-April. The first week of May began an extended period of below normal temperatures. Widespread frost and freezing temperatures on the mornings of the 8<sup>th</sup> and 9<sup>th</sup> damaged some fruit and vegetable crops. Rainfall hindered spring fieldwork. After a period of summer-like weather the third week of May, the last week of the month had cool, unsettled weather that persisted into early June. While some northern and southeastern regions continued to experience persistent rainfall and spring fieldwork delays, many others saw an extended break in the wet weather and had rapid planting progress.

During June, weather conditions varied widely. Storms and heavy rains in mid-June caused flooding and crop damage in central sections of the Lower Peninsula. Many southern sections, however, were repeatedly missed by the precipitation and had gradual development of moisture stress. By late June southeastern sections were categorized by the U.S. Drought Monitor as ‘Abnormally Dry’. Precipitation totals for June ranged from less than 1.5” to more than 10.0”. Monthly mean temperatures were close to normal. During July, monthly rainfall totals ranged less than 2.0” to more than 6.0”. Mean temperatures were close to normal across central and southern sections and slightly below normal across the north. This weather combination favored growth and development of most spring-planted annual crops.

Cooler and drier than normal weather prevailed the last half of August and early September. Mean temperatures for August ranged from near normal to more than 4°F below normal. Given the cooler temperatures, crop growth and development lagged behind normal in many areas. Rainfall for the month ranged from less than 2.0” to more than 6.0”. Drier than normal weather across sections of southern and central Lower Peninsula led to moisture stress and early senescence of crops. Late September was abnormally hot and dry. This led to rapid maturation and senescence of most annual crops and favored early harvest activities. Mean temperatures in September were 3-6°F above normal. Precipitation totals were 1.0-3.0” below normal. Since early July, rainfall totals in some central portions of the Lower Peninsula were less than 4.0” (less than 50% of normal), resulting in low levels of soil moisture and significant water stress for many crops. The dryness delayed winter wheat planting in some areas due to insufficient soil moisture for germination. At the end of September, the US Drought Monitor categorized most of the southern half of Lower Michigan as ‘Abnormally Dry’; south central sections were at ‘Moderate Drought’.

Heavy rainfall occurred in the period of October 5-15, with totals of 3.0-6.0” across many portions of the state. Some southwestern sites recorded more than 8.0”. This led to a halt of fall harvest and other fieldwork. The precipitation infiltrated the rooting zone, relieved long term stress for perennial crops, and began seasonal moisture recharge. The late season moisture also benefitted germination of recently-planted winter wheat. For many areas the first freeze of the season was at least two weeks later than normal. Precipitation for October ranged from less than 4.0” to more than 10.0” across southwestern sections the Lower Peninsula (up to 300% of normal). For the state as a whole, October was the wettest on record. Mean temperatures for the October were about 2°F-6°F above normal.

### Field crops: Acres harvested and value of production, 2013-2017

Item	Unit	2013	2014	2015	2016	2017
Acres harvested	1,000 acres	6,438	6,487	6,319	6,313	6,272
Value of production	1,000 dollars	3,846,327	3,356,414	3,275,413	3,064,829	2,785,120

### Grain storage capacity, December 1, 2013-2017

Year	Off farm		On farm capacity
	Facilities	Rated capacity	
	<i>Number</i>	<i>Million bushels</i>	<i>Million bushels</i>
2013	206		290
2014	200		295
2015	192		300
2016	191		300
2017	191		300

**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	6	2011,2015	1866
Yield per acre	Bushels	68.0	1985	13.5	1933	
Production	1,000 bu	8,400	1918	288	2011	
Dry Edible beans						
Harvested acres	1,000 acres	690	1930	130	2001	1909
Yield per acre	Pounds	2,100	1999	396	1916	
Production	1,000 cwt	8,585	1963	780	2001	
Corn for grain						
Harvested acres	1,000 acres	2,800	1981	480	1866	1866
Yield per acre	Bushels	162.0	2015	21.5	1917	
Production	1,000 bu	355,810	2014	15,120	1869	
Corn for silage						
Harvested acres	1,000 acres	498	1971	210	2003	1919
Yield per acre	Tons	20.5	2014	4.7	1930	
Production	1,000 tons	6,630	2016	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	1909
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	25	2011	1866
Yield per acre	Bushels	70.0	2003	18.5	1921	
Production	1,000 bu	69,388	1946	1,600	2011	
Potatoes						
Harvested acres	1,000 acres	374.0	1895	36.4	1975	1866
Yield per acre	Cwt	390.0	2015	26.0	1887,1916	
Production	1,000 cwt	23,256	1904	3,557	1876	
Soybeans						
Harvested acres	1,000 acres	2,270	2017	1	1930	1924
Yield per acre	Bushels	50.5	2016	8.0	1927	
Production	1,000 bu	104,030	2016	10	1930	
Spearmint						
Harvested acres	1,000 acres	8.7	1954	0.7	1935	1935
Yield per acre	Pounds	70.0	2011,2012,2013	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	31.7	2015	5.5	1916	
Production	1,000 tons	4,787	2015	298	1943	
Wheat, winter						
Harvested acres	1,000 acres	1,515	1953	400	1987	1909
Yield per acre	Bushels	89.0	2016	10.5	1912	
Production	1,000 bu	50,730	2016	7,350	1912	

# Corn

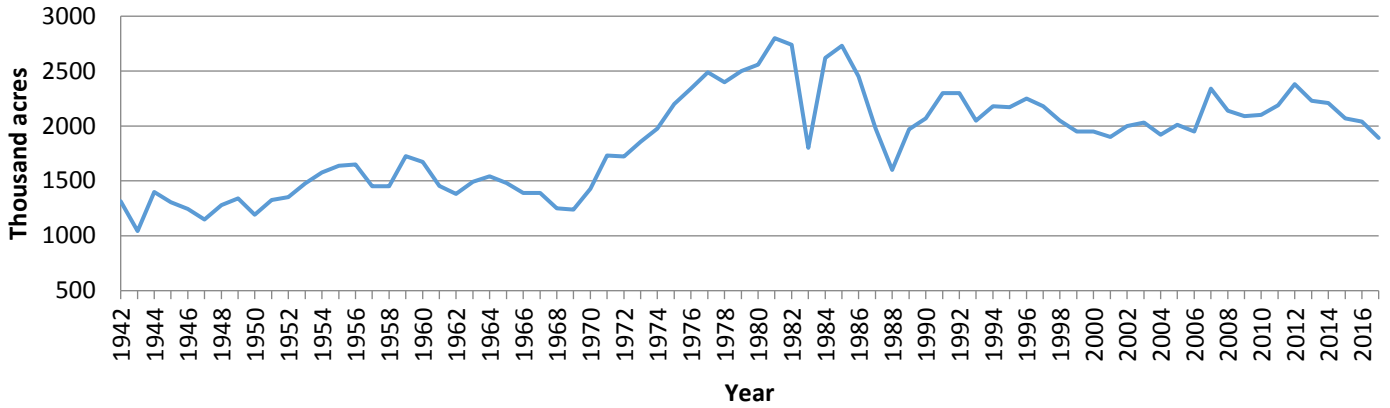
**Corn: Acres, yield, production, and value, 2013-2017**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
All						
2013	2,600					
2014	2,550					
2015	2,350					
2016	2,400					
2017	2,250					
Grain						
2013		2,230	155	345,650	4.18	1,444,817
2014		2,210	161	355,810	3.65	1,298,707
2015		2,070	162	335,340	3.63	1,217,284
2016		2,040	157	320,280	3.44	1,101,763
2017		1,890	159	300,510	3.35	1,006,709
Silage	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>		
2013		350	17.5	6,125		
2014		320	20.5	6,560		
2015		260	19.0	4,940		
2016		340	19.5	6,630		
2017		340	18.5	6,290		

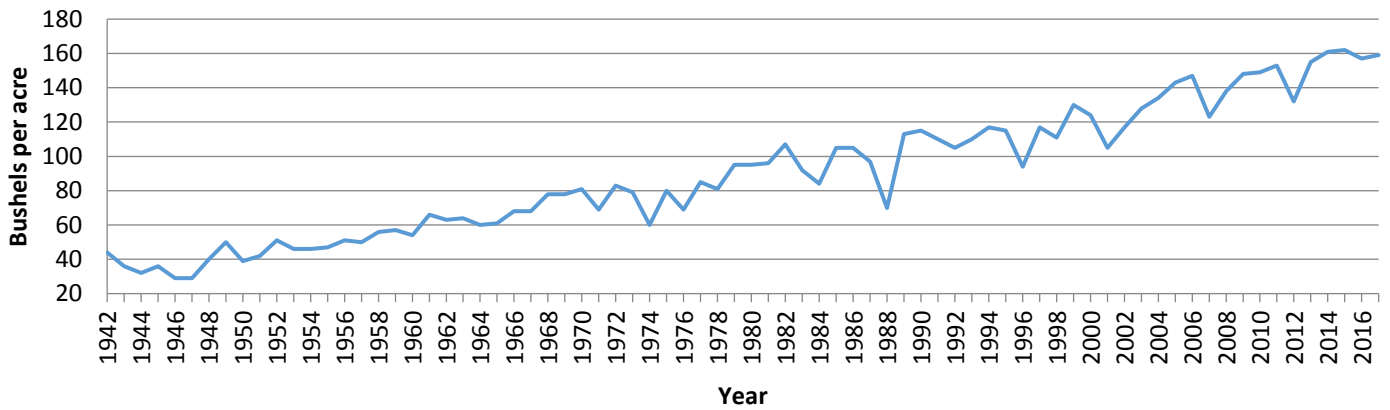
<sup>1</sup> Marketing year average.



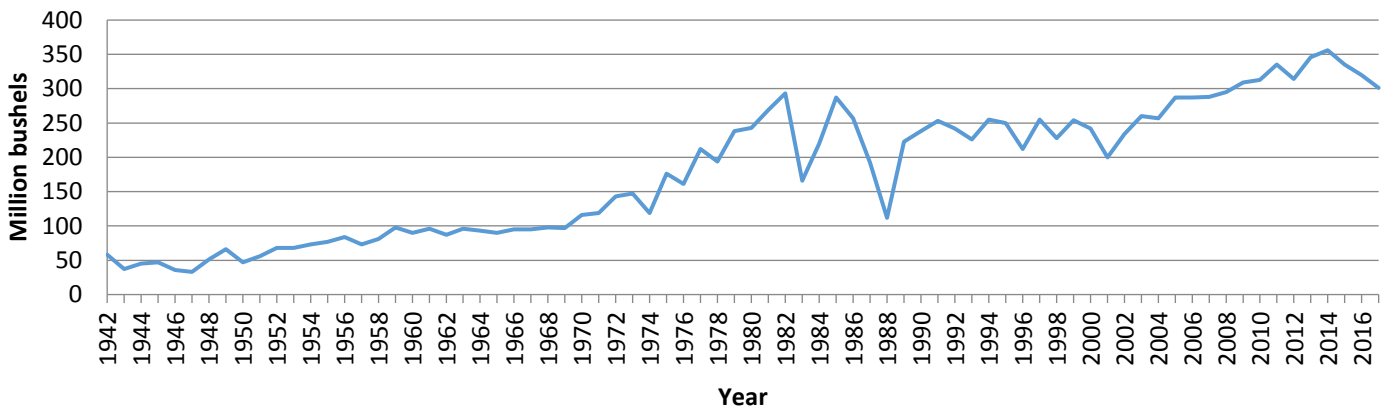
### Corn for grain acres, 1942-2017



### Corn yield, 1942-2017



### Corn production, 1942-2017



**Corn for grain: Stocks by quarter, 2013-2017**

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
	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>
2013	195,000	96,334	105,000	81,306	43,000	53,674	15,000	20,616
2014	215,000	67,968	110,000	63,953	45,000	43,723	11,500	16,520
2015	185,000	91,642	99,000	75,358	45,000	48,941	15,500	23,675
2016	170,000	84,631	95,000	70,458	50,000	51,517	18,500	30,429
2017	155,000	81,431	86,000	67,593	51,000	50,711	16,000	29,454

**Corn: Percentage of acreage planted, 2013-2017**

Year	Month and day					
	April		May			June
	20	30	10	20	30	10
2013	0	1	24	80	92	98
2014	0	2	18	36	73	96
2015	1	19	61	82	95	99
2016	1	7	23	56	88	98
2017	1	5	19	62	85	95
5-year-average	1	7	29	63	87	97

**Corn: Percentage of acreage silked, 2013-2017**

Year	Month and day					
	July			August		
	1	10	20	30	10	20
2013	0	5	38	80	94	100
2014	1	6	32	65	90	97
2015	1	3	35	77	96	100
2016	1	3	36	77	92	98
2017	0	4	30	71	89	95
5-year-average	1	4	34	74	92	98

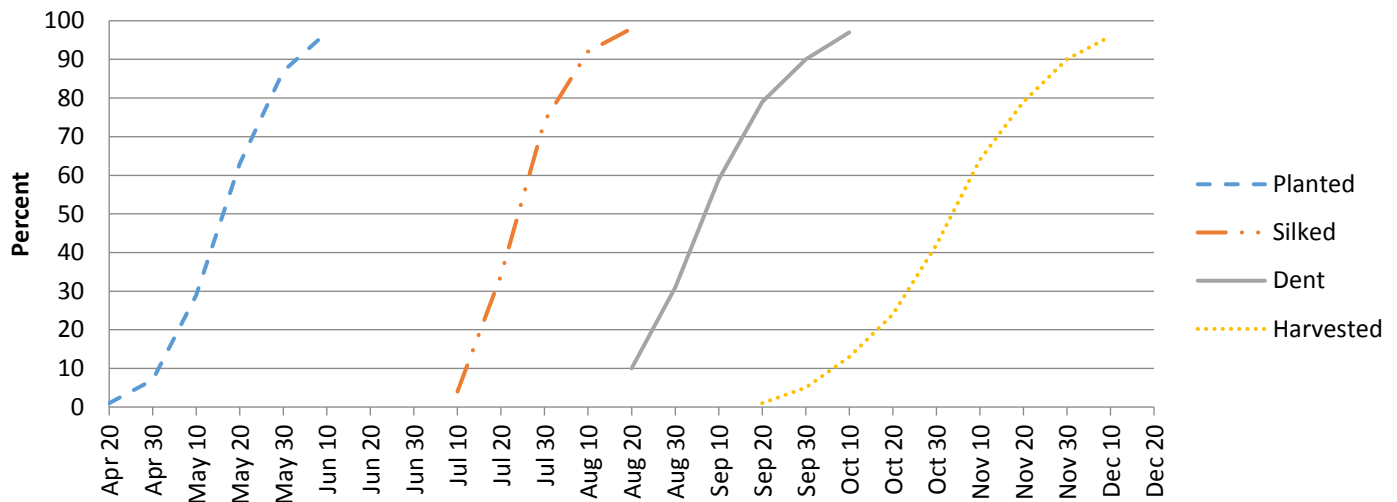
**Corn: Percentage of acreage dent stage, 2013-2017**

Year	Month and day						
	August			September			October
	10	20	30	10	20	30	10
2013	0	8	25	57	80	92	97
2014	0	9	26	51	69	84	94
2015	0	8	31	63	85	95	100
2016	1	13	39	63	82	93	98
2017	1	11	32	63	78	88	94
5-year-average	0	10	31	59	79	90	97

**Corn: Percentage of acreage harvested for grain, 2013-2017**

Year	Month and day									
	September			October			November			December
	10	20	30	10	20	30	10	20	30	10
2013	0	2	7	14	21	38	62	79	92	95
2014	0	0	2	6	12	27	45	65	77	93
2015	0	0	6	17	35	57	82	93	97	100
2016	0	0	5	12	22	40	63	83	92	99
2017	0	3	7	14	30	46	66	77	92	95
5-year-average	0	1	5	13	24	42	64	79	90	96

## Corn progress Five-year average, 2013-2017



**Corn: Monthly price received, percent of annual sales, and marketing year average price by year**

Months	2014		2015		2016		2017	
	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales <sup>1</sup>
	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>
October	3.51	7	3.65	11	3.36	7	3.28	
November	3.56	13	3.50	16	3.24	19	3.24	
December	3.63	15	3.56	12	3.33	11	3.27	
January	3.75	11	3.65	14	3.45	13	3.34	
February	3.69	7	3.71	7	3.52	9	3.49	
March	3.73	8	3.57	7	3.62	6	3.59	
April	3.78	7	3.66	9	3.58	7	3.74	
May	3.58	6	3.75	5	3.58	6	3.83	
June	3.39	9	3.95	7	3.58	7	3.74	
July	3.88	8	3.77	4	3.62	5	3.71	
August	3.69	3	3.45	5	3.48	5	3.67	
September	3.73	6	3.43	3	3.39	5		
Annual	3.65		3.63		3.44			

<sup>1</sup> Published in November 2018.

# Dry Edible Beans

## Dry edible beans: Acres, yield, production, and value, 2013-2017

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Dol/cwt</i>	<i>1,000 dollars</i>
2013	175	172.0	1,900	3,270	43.10	140,937
2014	230	226.0	1,940	4,375	35.30	154,438
2015	275	272.0	2,030	5,533	28.80	159,350
2016	210	208.0	1,920	4,002	29.20	116,858
2017	220	218.5	2,010	4,394	29.40	129,184

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

## Dry edible beans: Acres, yield, and production, by class, 2013-2017

Class and Year	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>
<b>Black</b>				
2013	78,500	76,500	1,900	1,455
2014	110,000	108,000	1,920	2,074
2015	140,000	139,000	2,050	2,850
2016	104,000	103,000	1,970	2,029
2017	121,000	120,400	2,040	2,456
<b>Cranberry</b>				
2013	3,500	3,400	1,260	43
2014	5,000	4,900	1,460	72
2015	6,100	5,900	1,710	101
2016	2,600	2,600	1,580	41
2017	3,800	3,700	1,580	58
<b>Navy</b>				
2013	60,000	59,600	2,110	1,256
2014	75,000	74,300	2,180	1,620
2015	80,000	79,800	2,140	1,708
2016	67,000	66,300	1,970	1,306
2017	74,000	73,900	2,110	1,559
<b>Red kidney, dark</b>				
2013	2,300	2,200	890	20
2014	3,300	2,700	930	25
2015	4,500	3,800	1,340	51
2016	2,900	2,800	1,070	30
2017 <sup>1</sup>	(D)	(D)	(D)	(D)
<b>Red kidney, light</b>				
2013	7,900	7,800	1,620	127
2014	8,300	8,200	1,590	130
2015	9,100	8,900	1,800	160
2016	8,600	8,500	1,760	150
2017	6,200	6,000	1,490	89
<b>Small, red</b>				
2013	15,500	15,400	1,850	285
2014	20,000	19,600	1,830	359
2015	27,800	27,300	2,020	551
2016	19,100	19,000	1,830	348
2017	5,500	5,300	1,700	90
<b>Other</b>				
2013	5,000	4,900	900	44
2014	6,400	6,400	1,020	65
2015	5,400	5,300	1,510	80
2016	5,800	5,800	1,690	98
2017	3,700	3,700	1,430	53

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Included in "other" class to avoid disclosing data for individual operations.

**Dry edible beans: Monthly price received, percent of annual sales, and marketing year average price by year**

Months	2014		2015		2016		2017	
	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales <sup>1</sup>
	<i>Dollars per Cwt.</i>	<i>Percent</i>	<i>Dollars per Cwt.</i>	<i>Percent</i>	<i>Dollars per Cwt.</i>	<i>Percent</i>	<i>Dollars per Cwt.</i>	<i>Percent</i>
September	36.00	23	31.00	29	26.50	32	30.50	
October	34.10	48	28.60	36	27.20	28	28.50	
November	33.90	9	27.00	10	32.50	8	28.50	
December	38.10	3	25.30	7	31.80	5	29.40	
January	(D)	3	28.50	5	32.40	5	32.40	
February	40.40	2	(D)	2	34.70	2	29.50	
March	46.20	1	(D)	2	34.10	2	29.30	
April	39.80	1	25.20	1	34.70	2	(D)	
May	38.90	1	27.00	1	33.80	6	30.90	
June	45.10	1	30.00	4	31.00	5	32.00	
July	(D)	1	31.20	2	34.20	2	32.00	
August	(D)	7	33.70	1	32.70	3	(D)	
Annual	35.30		28.80		29.20			

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Published November 2018.

# Hay and Haylage

## Hay, haylage, and greenchop: Acres, yield, production, and value, 2013-2017

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
All dry hay						
2013		940	2.68	2,518	165.00	433,823
2014		980	2.62	2,570	151.00	404,056
2015		970	2.68	2,604	144.00	385,392
2016		870	2.71	2,357	133.00	323,067
2017		900	2.38	2,143	135.00	303,679
Alfalfa hay						
2013		610	3.10	1,891	182.00	344,162
2014		640	2.90	1,856	170.00	315,520
2015		660	3.10	2,046	154.00	315,084
2016		640	3.00	1,920	143.00	274,560
2017		610	2.80	1,708	143.00	252,784
Alfalfa seedings						
2013	95					
2014	90					
2015	115					
2016	80					
2017	80					
Other hay						
2013		330	1.90	627	143.00	89,661
2014		340	2.10	714	124.00	88,536
2015		310	1.80	558	126.00	70,308
2016		230	1.90	437	111.00	48,507
2017		290	1.50	435	117.00	50,895
All haylage and greenchop						
2013		295	7.20	2,123		
2014		290	8.02	2,326		
2015		295	8.44	2,491		
2016		285	8.24	2,348		
2017		260	7.32	1,902		
Alfalfa haylage and greenchop						
2013		270	7.40	1,998		
2014		260	8.60	2,236		
2015		270	8.80	2,376		
2016		250	8.90	2,225		
2017		240	7.50	1,800		

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

## Hay: Stocks on farms, 2014-2018

Year	May 1	December 1
	<i>1,000 tons</i>	<i>1,000 tons</i>
2014	270	2,000
2015	490	1,800
2016	440	1,320
2017	375	1,100
2018	260	( <sup>1</sup> )

<sup>1</sup> Published in January 2019.

**Alfalfa hay: Monthly price received, percent of annual sales, and marketing average price by year**

Months	2014		2015		2016		2017	
	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales
	<i>Dollars per Ton</i>	<i>Percent</i>	<i>Dollars per Ton</i>	<i>Percent</i>	<i>Dollars per Ton</i>	<i>Percent</i>	<i>Dollars per Ton</i>	<i>Percent</i>
June	165	15	160	14	115	15	155	14
July	150	13	150	16	140	14	140	15
August	160	11	170	14	155	14	125	13
September	170	8	165	11	145	11	145	10
October	165	7	160	6	150	6	165	6
November	185	7	170	6	160	6	160	6
December	180	8	160	6	150	6	180	7
January	185	7	150	6	155	7	180	7
February	190	7	135	6	150	6	175	6
March	170	7	130	7	140	7	160	7
April	175	6	130	4	140	4	200	5
May	165	4	135	4	150	4	160	4
Annual	170		154		143		156	

# Maple Syrup

**Maple syrup: Taps, yield, production, price, and value, 2014-2018**

Year	Taps	Yield per tap	Production	Price per gallon	Value of production
	<i>1,000</i>	<i>Gallons</i>	<i>1,000 gallons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2014	430	0.244	105	49.50	5,198
2015	470	0.270	127	54.50	6,922
2016	400	0.225	90	44.80	4,032
2017	440	0.250	110	51.20	5,632
2018	455	0.275	125	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Published in June 2019.

# Oats

**Oats: Acres, yield, production, and value, 2013-2017**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	50	30	62	1,860	3.68	6,845
2014	55	40	69	2,760	3.40	9,384
2015	75	50	67	3,350	1.97	6,600
2016	65	30	58	1,740	2.28	3,967
2017	55	40	54	2,160	2.91	6,156

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

**Oats: Monthly price received, percent of annual sales, and marketing year average price by year**

Months	2014		2015		2016		2017	
	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales
	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>
July	4.09	1	2.66	3	2.21	7	3.35	2
August	3.55	28	1.91	56	1.77	37	2.54	41
September	3.33	56	1.93	16	2.08	4	2.87	7
October	3.26	9	1.89	5	1.55	3	2.98	9
November	3.27	1	1.84	2	(D)	3	3.22	2
December	(D)		(D)	2	(D)	2	3.11	6
January	(D)	1	2.53	4	2.68	7	3.14	10
February	(D)	1	(D)	2	2.79	14	3.12	4
March	3.25	1	2.10	4	2.91	8	3.30	7
April	3.28	1	1.94	4	2.64	6	3.48	4
May	(D)		2.29	1	2.74	4	3.46	4
June	(D)	1	(D)	1	3.02	5	3.27	4
Annual	3.40		1.97		2.28		2.91	

(D) Withheld to avoid disclosing data for individual operations.



# Potatoes

## Fall potatoes: Acres, yield, production, and value, 2013-2017

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	44.5	44.0	360	15,840	11.90	188,496
2014	43.0	42.5	370	15,725	11.70	183,983
2015	46.0	45.0	390	17,550	10.40	182,520
2016	47.0	46.0	370	17,020	10.20	173,604
2017	47.0	46.5	370	17,205	11.10	190,976

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

## Fall potatoes: Stocks by type as percent of total stocks, December 1, 2013-2017

Type	2013	2014	2015	2016	2017
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
White	( <sup>1</sup> )	85	85	81	80
Russet	( <sup>1</sup> )	14	14	17	18
Red	( <sup>1</sup> )	0	0	0	1
Yellow	( <sup>1</sup> )	1	1	2	1

<sup>1</sup> Suspended due to sequestration.

## Fall potatoes: Production and disposition, 2013-2017

Crop year	Production	Total used for seed	Farm Disposition		Sold
			Seed, feed, and home use	Shrinkage and loss	
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2013	15,840	1,035	310	430	15,100
2014	15,725	1,058	315	450	14,960
2015	17,550	1,152	335	540	16,675
2016	17,020	1,397	280	748	15,992
2017	17,205	1,344	369	585	16,251

## Fall potatoes: Stocks, 2013-2017

Crop year	December 1	February 1	April 1
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2013	( <sup>1</sup> )	( <sup>1</sup> )	2,100
2014	( <sup>1</sup> )	5,000	2,200
2015	10,900	6,700	3,500
2016	9,900	6,000	2,600
2017	11,000	6,900	3,800

<sup>1</sup> Estimate not available.

# Soybeans

## Soybeans: Acres, yield, production, and value, 2013-2017

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	1,930	1,920	44.5	85,440	12.90	1,102,176
2014	2,050	2,040	42.5	86,700	10.10	875,670
2015	2,030	2,020	49.0	98,980	8.82	873,004
2016	2,070	2,060	50.5	104,030	9.51	989,325
2017	2,280	2,270	42.5	96,475	9.39	897,218

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

## Soybeans: Stocks by quarter, 2013-2017

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
	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>
2013	20,000	25,315	5,000	12,516	1,900	5,283	750	1,397
2014	28,500	36,200	12,500	20,871	5,000	11,838	650	3,891
2015	28,000	36,155	16,000	20,303	6,000	15,221	710	5,147
2016	28,500	42,823	15,500	28,046	8,400	14,978	2,250	4,789
2017	30,000	37,797	14,000	29,719	5,800	16,646	1,750	4,330

## Soybeans: Percentage of acreage planted, 2013-2017

Year	Month and day							
	April		May			June		
	30	10	10	20	30	10	20	30
2013	0	9	51	73	91	100	100	100
2014	0	9	19	52	91	98	100	100
2015	5	32	61	85	95	100	100	100
2016	1	9	28	73	93	100	100	100
2017	1	5	33	61	86	97	100	100
5-year-average	1	13	38	69	91	99	100	100

## Soybeans: Percentage of acreage setting pods, 2013-2017

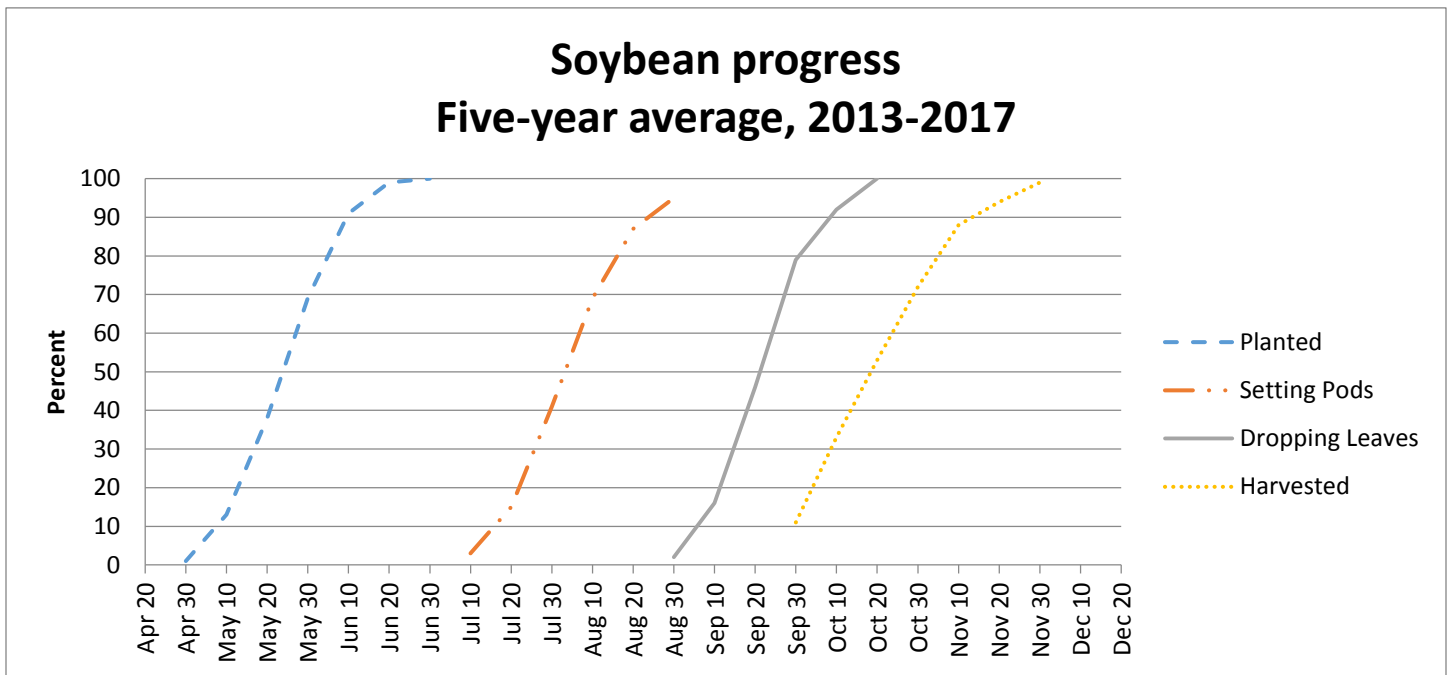
Year	Month and day					
	July			August		
	10	20	30	10	20	30
2013	4	13	41	63	84	95
2014	5	15	46	75	89	96
2015	1	12	38	73	92	97
2016	1	13	38	66	85	93
2017	5	23	44	69	85	92
5-year-average	3	15	41	69	87	95

**Soybeans: Percentage of acreage shedding leaves, 2013-2017**

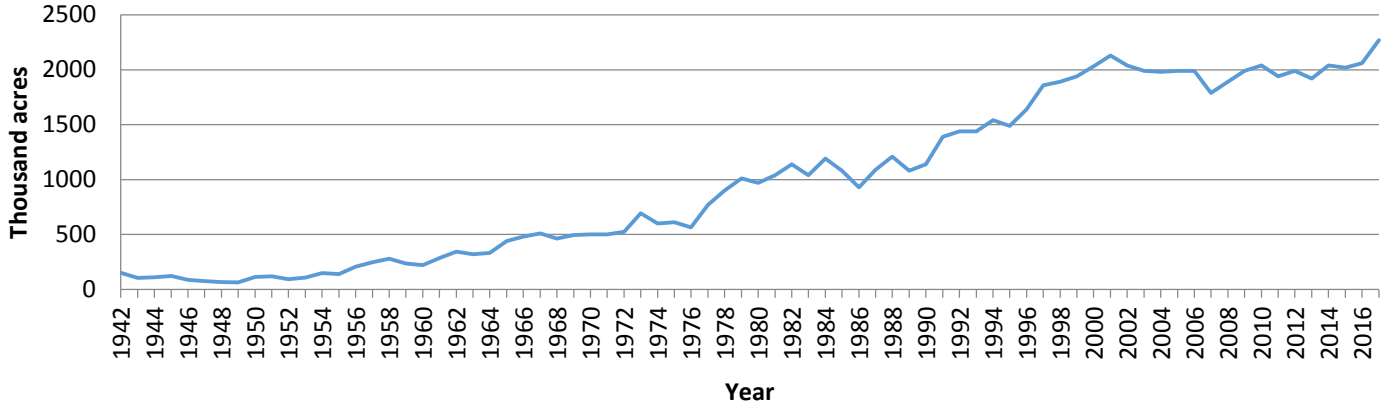
Year	Month and day					
	August	September			October	
	30	10	20	30	10	20
2013	0	6	40	75	88	100
2014	1	15	37	75	93	100
2015	0	25	58	88	97	100
2016	1	15	43	77	90	99
2017	6	21	53	81	94	100
5-year-average	2	16	46	79	92	100

**Soybeans: Percentage of acreage harvested, 2013-2017**

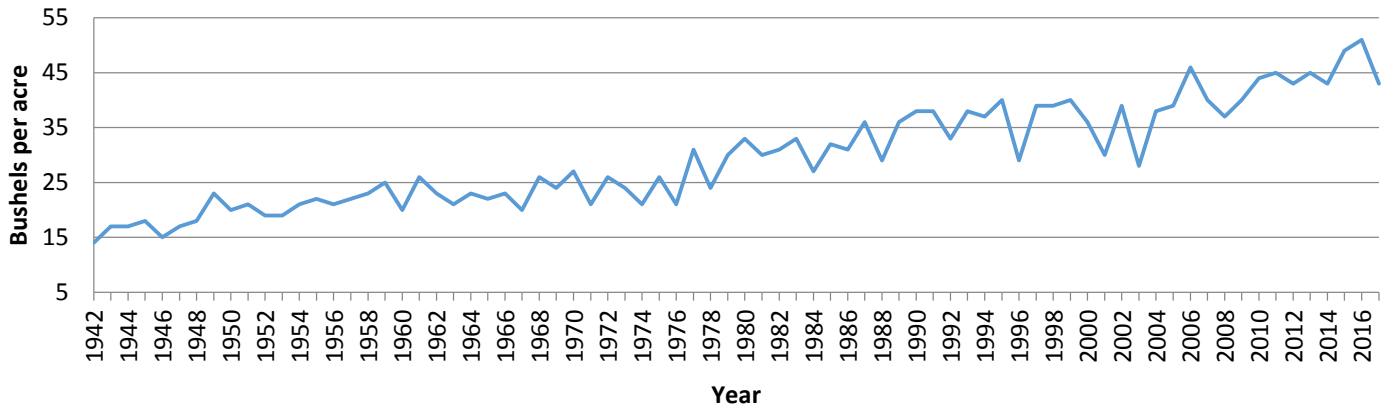
Year	Month and day							
	September		October			November		
	20	30	10	20	30	10	20	30
2013	0	7	32	56	69	87	96	100
2014	0	4	15	26	59	86	94	100
2015	1	23	47	71	88	96	100	100
2016	0	4	17	43	66	82	91	97
2017	1	19	54	70	79	87	91	97
5-year-average	0	11	33	53	72	88	94	99



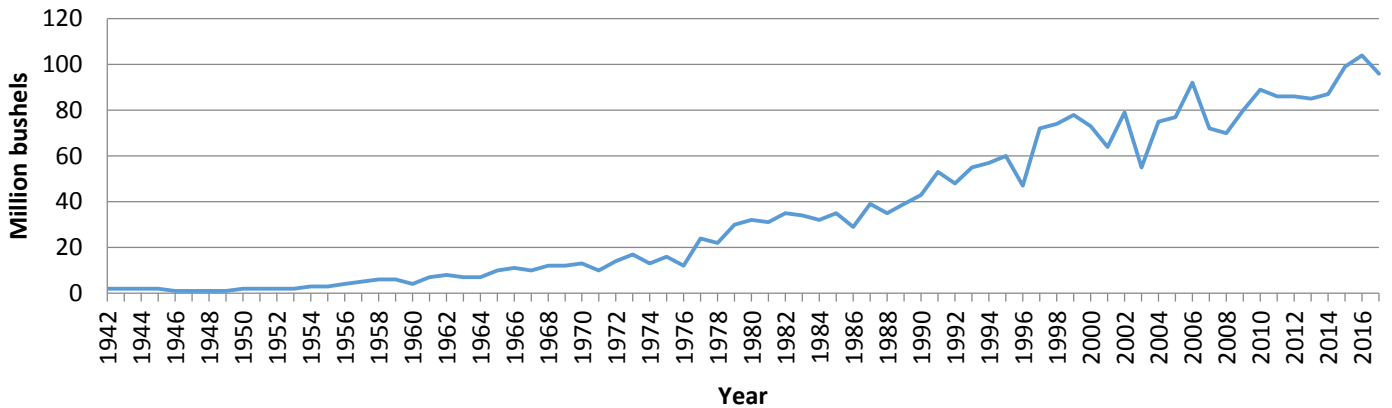
### Soybean harvested acres, 1942-2017



### Soybean yield, 1942-2017



### Soybean production, 1942-2017



**Soybeans: Monthly price received, percent of annual sales, and marketing year average by year**

Months	2014		2015		2016		2017	
	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales
	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>
September	11.20	1	8.93	5	9.68	2	9.28	11
October	10.10	26	8.73	30	9.28	37	9.21	34
November	10.10	20	8.30	11	9.45	20	9.22	12
December	10.10	12	8.40	9	9.76	6	9.34	7
January	10.40	10	8.58	11	9.76	11	9.31	11
February	9.88	6	8.59	6	10.00	5	9.66	7
March	9.91	6	8.70	9	9.97	4	9.98	6
April	10.00	4	9.01	8	9.70	2	10.00	4
May	9.61	3	9.66	5	9.55	2	10.10	3
June	9.68	5	10.50	3	9.43	3	9.85	2
July	10.20	4	10.30	1	9.61	4	9.56	2
August	10.40	3	10.10	2	9.50	4	9.24	1
Annual	10.10		8.82		9.51		9.39	

## Sugarbeets

**Sugarbeets: Acres, yield, production, and value, 2013-2017**

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	154	153	26.2	4,009	53.60	214,882
2014	151	150	29.3	4,395	49.10	215,795
2015	152	151	31.7	4,787	45.30	216,851
2016	151	149	30.8	4,589	29.50	135,376
2017	144	143	25.2	3,604	( <sup>2</sup> )	( <sup>2</sup> )

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

<sup>2</sup> Published in February 2019.

# Wheat

## Wheat: Acres, yield, production, and value, 2013-2017

Year	Planted	Harvested	Yield	Production	Price <sup>1</sup>	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	620	590	75.0	44,250	6.71	296,918
2014	550	470	74.0	34,780	5.74	199,637
2015	510	475	81.0	38,475	5.61	215,845
2016	610	570	89.0	50,730	4.15	210,530
2017	480	425	79.0	33,575	4.54	151,088

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

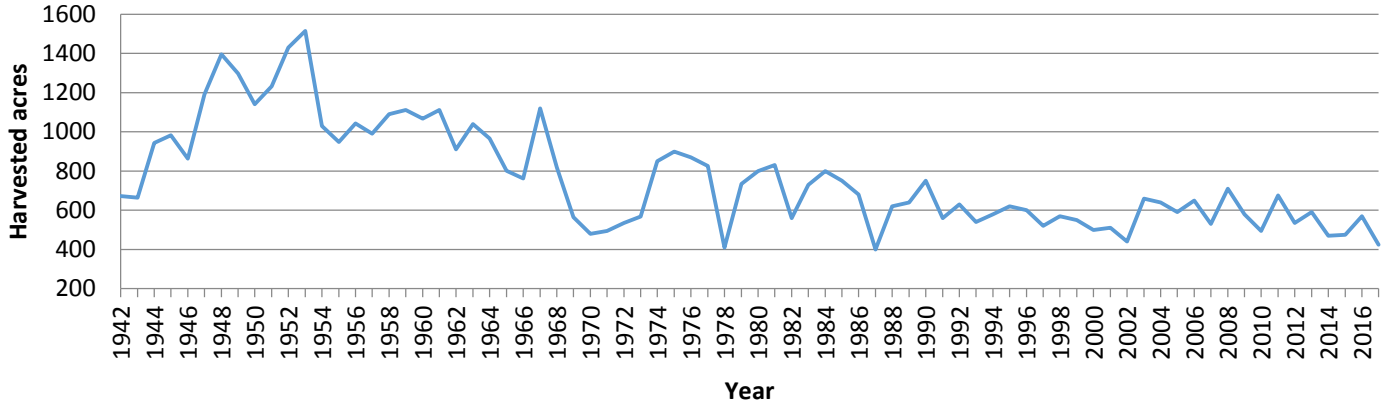
## Wheat: Stocks by quarter, 2013-2017

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
	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>	<i>1,000 bushels</i>
2013	4,900	42,436	2,100	35,653	1,500	26,943	420	14,850
2014	3,500	32,369	3,000	25,169	1,300	19,456	510	12,615
2015	4,800	35,817	2,700	30,523	600	23,848	400	15,741
2016	7,200	46,582	4,000	42,776	3,400	35,778	1,250	30,088
2017	4,900	47,699	2,600	42,254	2,100	35,956	930	30,370

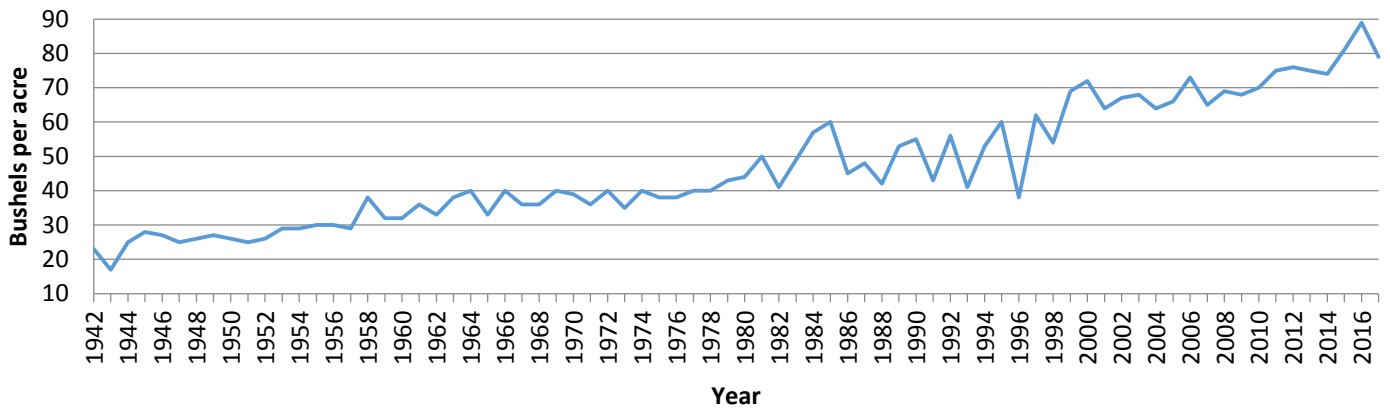
## Wheat: Monthly price received, percent of annual sales, and marketing year average price by year

Months	2014		2015		2016		2017	
	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales	Price	Percent of sales
	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>	<i>Dollars per Bu.</i>	<i>Percent</i>
July	5.75	30	5.72	36	4.32	33	4.76	40
August	5.71	38	5.67	27	4.00	23	4.29	21
September	5.57	9	5.51	14	3.94	13	4.24	10
October	5.06	3	5.61	6	4.06	7	4.53	3
November	5.76	4	5.81	1	3.94	3	4.08	2
December	6.11	5	5.63	3	4.13	2	3.82	4
January	6.15	2	5.15	3	4.09	4	4.43	5
February	5.93	1	5.58	2	4.25	6	4.51	5
March	5.96	2	5.25	2	4.49	2	4.72	4
April	6.18	2	5.27	3	4.31	2	5.01	3
May	5.89	2	5.53	1	4.30	2	4.98	2
June	5.62	2	4.96	2	4.28	3	5.06	1
Annual	5.74		5.61		4.15		4.54	

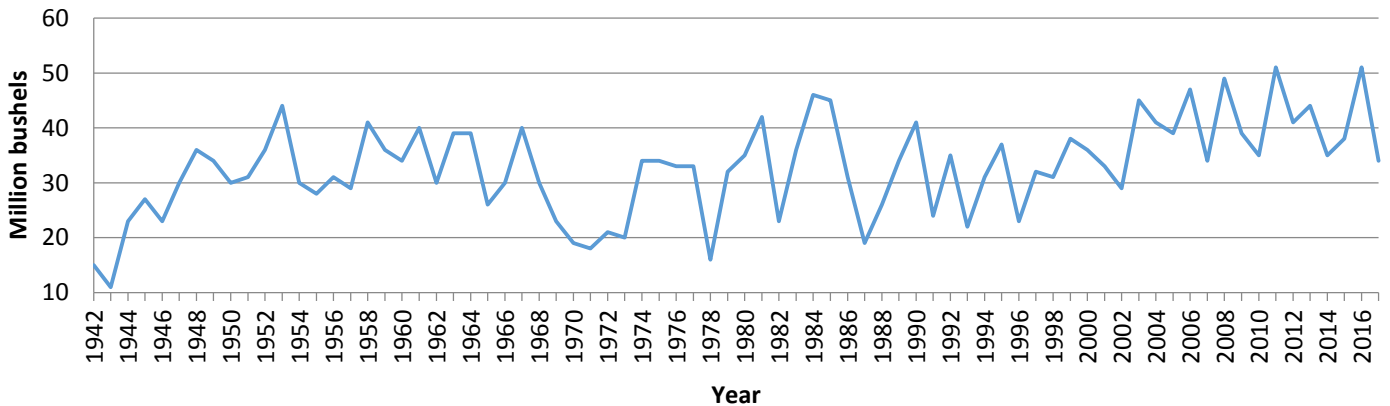
## Wheat harvested acres, 1942-2017



## Wheat yield, 1942-2017



## Wheat production, 1942-2017



# Agricultural Chemical Usage

## Apples: Agricultural chemical applications, 2017 <sup>1</sup>

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, dimeth. salt	14	1.2	0.99	1.18	5,500
Clopyralid mono salt	3	1.0	0.15	0.15	200
Diuron	5	1.1	1.88	2.14	3,500
Flumioxazin	1	1.0	0.20	0.20	100
Glufosinate-ammonium	3	1.2	0.67	0.80	900
Glyphosate iso. salt	22	1.2	1.04	1.27	9,300
Glyphosate pot. salt	3	1.1	1.35	1.43	1,400
Indaziflam	2	1.0	0.07	0.07	100
Paraquat	7	1.1	0.64	0.71	1,600
Pendimethalin	4	1.0	1.68	1.69	2,400
Terbacil	2	1.0	1.26	1.26	800
<b>Insecticides</b>					
Abamectin	64	1.2	0.02	0.02	400
Acetamiprid	58	1.4	0.12	0.18	3,300
Carbaryl	18	1.2	0.93	1.14	6,700
Chlorantraniliprole	70	2.0	0.07	0.13	3,100
Chlorpyrifos	49	1.2	1.31	1.55	25,000
Clothianidin	52	1.4	0.10	0.14	2,300
Cyflumetofen	8	1.0	0.18	0.18	500
Cyfluthrin	5	1.2	0.04	0.05	100
Esfenvalerate	18	1.5	0.05	0.07	400
Fenpropathrin	10	1.2	0.31	0.37	1,200
Flubendiamide	2	1.1	0.14	0.16	100
Flupyradifurone	21	1.4	0.15	0.21	1,500
Imidacloprid	34	1.7	0.08	0.14	1,600
Lambda-cyhalothrin	24	1.6	0.03	0.05	400
Methomyl	7	1.8	0.46	0.81	1,700
Novaluron	4	1.0	0.14	0.14	200
Permethrin	12	1.2	0.18	0.22	800
Phosmet	48	2.0	1.67	3.41	53,400
Pyriproxyfen	3	1.5	0.11	0.16	100
Spinetoram	42	1.4	0.09	0.12	1,700
Spirodiclofen	1	1.0	0.26	0.26	100
Spirotetramat	11	1.1	0.11	0.12	400
Thiamethoxam	52	1.8	0.07	0.12	2,000
Zeta-Cypermethrin	9	1.5	0.03	0.04	100

See footnote(s) at end of table.

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**Apples: Agricultural chemical applications, 2017 <sup>1</sup> (continued)**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Fungicides /2</b>					
Basic copper sulfate	18	1.2	1.08	1.25	7,400
Benzovindiflupyr	28	1.7	0.04	0.07	600
Calcium polysulfide	2	1.5	3.38	5.06	3,000
Captan	84	5.8	2.24	13.05	361,500
Copper Chloride Hyd.	28	1.3	1.48	1.95	18,000
Copper hydroxide	41	1.5	1.73	2.52	34,000
Copper sulfate	14	5.3	0.10	0.54	2,500
Cyprodinil	50	2.1	0.19	0.40	6,500
Difenoconazole	39	1.7	0.06	0.11	1,400
Fenbuconazole	12	2.2	0.10	0.22	900
Fluopyram	15	1.5	0.08	0.12	600
Fluxapyroxad	21	1.4	0.07	0.10	700
Kasugamycin	10	1.1	0.08	0.09	300
Kresoxim-methyl	4	1.2	0.13	0.16	200
Mancozeb	85	5.1	2.61	13.36	375,100
Metiram	5	2.6	1.59	4.13	6,200
Myclobutanil	42	2.3	0.12	0.27	3,700
Oxytetracycline calcium	8	1.3	0.18	0.23	600
Oxytetracycline hydro.	14	1.4	0.22	0.30	1,300
Penthiopyrad	3	2.5	0.14	0.34	400
Pyraclostrobin	20	1.4	0.07	0.11	700
Pyrimethanil	21	1.4	0.29	0.40	2,800
Streptomycin sulfate	29	1.3	0.29	0.38	3,600
Sulfur	10	3.2	3.29	10.67	33,900
Tebuconazole	1	2.6	0.17	0.45	100
Thiophanate-methyl	36	2.0	0.53	1.06	12,700
Trifloxystrobin	54	1.9	0.06	0.12	2,100
Ziram	38	1.9	3.61	6.74	85,600
<b>Other chemicals</b>					
Benzyladenine	15	1.3	0.03	0.03	200
Butenoic Acid Hydro	9	1.1	0.07	0.08	200
Dodecadien-1-OL	8	1.1	0.04	0.05	100
Gibberellins A4A7	14	1.2	0.02	0.03	100
Prohexadione calcium	28	1.4	0.16	0.23	2,100

<sup>1</sup> Bearing acres in 2017 were 33,000 acres.

<sup>2</sup> Includes antibiotics.

**Blueberries: Agricultural chemical applications, 2017 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
Clethodim	5	1.8	0.11	0.20	200
Diuron	28	1.3	2.19	2.90	16,100
Flumioxazin	6	1.0	0.30	0.30	400
Glyphosate iso. salt	5	1.3	0.96	1.25	1,100
Glyphosate pot. salt	4	1.3	1.47	1.98	1,400
Hexazinone	5	1.0	1.09	1.13	1,100
Mesotrione	21	1.2	0.16	0.18	700
Norflurazon	30	1.1	2.41	2.61	15,800
Paraquat	16	1.3	0.57	0.71	2,300
Pendimethalin	4	1.0	2.47	2.51	1,900
Simazine	11	1.4	1.94	2.76	6,100
Sulfentrazone	6	1.3	0.17	0.22	200
Terbacil	19	1.1	0.55	0.59	2,300
<b>Insecticides</b>					
Acetamiprid	35	1.8	0.10	0.18	1,200
Bifenthrin	56	1.9	0.09	0.16	1,800
Diazinon	12	1.2	0.50	0.62	1,500
Esfenvalerate	43	1.2	0.04	0.05	500
Fenpropathrin	10	1.6	0.29	0.46	900
Imidacloprid	39	2.0	0.09	0.19	1,400
Malathion	20	1.6	1.56	2.42	9,600
Methomyl	59	1.7	0.79	1.34	15,800
Methoxyfenozide	49	1.2	0.19	0.22	2,200
Phosmet	88	2.6	0.87	2.22	38,900
Zeta-Cypermethrin	84	2.4	0.03	0.06	1,000
<b>Fungicides</b>					
Azoxystrobin	56	2.0	0.18	0.37	4,100
Boscalid	14	1.3	0.33	0.42	1,200
Calcium polysulfide	30	1.5	1.63	2.37	14,000
Captan	17	1.8	2.15	3.80	12,900
Chlorothalonil	3	1.0	2.69	2.69	1,800
Cyprodinil	36	1.7	0.28	0.48	3,400
Difenoconazole	19	1.3	0.09	0.12	400
Fenbuconazole	61	1.6	0.09	0.15	1,900
Fludioxonil	27	1.3	0.20	0.27	1,400
Fluopyram	24	1.2	0.14	0.16	800
Metconazole	47	1.6	0.08	0.13	1,200
Mono-Potassium Salt	10	1.6	1.68	2.73	5,300
Propiconazole	27	1.6	0.16	0.25	1,400
Pyraclostrobin	14	1.3	0.17	0.21	600
Pyrimethanil	24	1.2	0.41	0.49	2,400
Reynoutria sachaline	10	1.7	0.10	0.17	300
Ziram	26	1.2	2.73	3.17	16,600

<sup>1</sup> Bearing acres in 2017 for Michigan were 20,000 acres.

**Cherries, sweet: Agricultural chemical applications, 2017 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, dimeth. salt	8	1.0	0.41	0.41	200
Glyphosate iso. salt	20	1.1	0.89	0.95	1,200
Glyphosate pot. salt	4	1.0	1.66	1.66	400
Paraquat	5	1.0	0.59	0.59	200
<b>Insecticides</b>					
Acetamiprid	8	1.4	0.12	0.17	100
Cyantraniliprole	12	1.0	0.08	0.09	100
Cyfluthrin	22	1.6	0.04	0.06	100
Fenpropathrin	42	1.2	0.35	0.42	1,100
Imidacloprid	30	1.4	0.08	0.11	200
Indoxacarb	15	1.0	0.11	0.11	100
Lambda-cyhalothrin	68	1.8	0.04	0.07	300
Malathion	8	1.0	1.66	1.74	900
Spinetoram	23	1.1	0.10	0.11	200
Spirotetramat	13	1.0	0.14	0.14	100
Thiamethoxam	69	1.8	0.07	0.13	600
<b>Fungicides</b>					
Azoxystrobin	4	1.8	0.23	0.42	100
Basic Copper Sulfate	9	1.0	0.72	0.74	400
Chlorothalonil	77	1.8	2.26	3.98	19,300
Copper chloride hyd.	10	1.1	1.28	1.41	900
Copper hydroxide	3	1.2	0.51	0.62	100
Dodine	5	1.2	0.76	0.92	300
Fenbuconazole	85	2.4	0.14	0.34	1,800
Fluopyram	51	2.4	0.09	0.20	700
Fluxapyroxad	17	1.3	0.09	0.12	100
Iprodione	57	1.6	0.88	1.40	5,000
Myclobutanil	7	1.2	0.13	0.16	100
Propiconazole	22	1.5	0.11	0.17	200
Pyraclostrobin	18	1.3	0.09	0.12	100
Sulfur	50	2.7	5.45	14.45	45,500
Tebuconazole	23	1.9	0.19	0.35	500
Trifloxystrobin	70	2.4	0.09	0.23	1,000
<b>Other chemicals</b>					
Ethephon	62	1.1	0.43	0.45	1,800
Giberellic acid	14	2.7	0.06	0.16	100
Methyl anthranilate	3	1.0	0.34	0.34	100

<sup>1</sup> Bearing acres in 2017 for Michigan were 6,300 acres.

**Cherries, tart: Agricultural chemical applications, 2017 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
Clopyralid mono salt	20	1.3	0.08	0.10	500
Glyphosate iso. salt	32	1.4	0.68	0.94	8,300
Glyphosate pot. salt	5	1.1	1.47	1.62	2,300
Paraquat	16	1.0	0.48	0.49	2,200
Simazine	3	1.0	1.94	1.95	1,900
<b>Insecticides</b>					
Acetamiprid	2	1.1	0.12	0.13	100
Chlorpyrifos	20	1.7	0.88	1.51	8,300
Cyantraniliprole	2	1.0	0.10	0.10	100
Cyfluthrin	4	1.1	0.04	0.04	100
Flubendiamide	3	1.1	0.09	0.10	100
Imidacloprid	21	1.8	0.08	0.14	800
Lambda-cyhalothrin	53	1.9	0.03	0.06	900
Phosmet	85	1.7	1.20	2.03	47,600
Thiamethoxam	36	1.6	0.07	0.11	1,100
Zeta-cypermethrin	48	1.8	0.02	0.04	600
<b>Fungicides</b>					
Calcium polysulfide	11	2.2	0.69	1.53	4,700
Captan	89	3.3	1.62	5.31	129,400
Chlorothalonil	77	2.9	2.36	6.86	144,300
Dodine	51	1.9	0.66	1.25	17,700
Fenbuconazole	42	1.5	0.11	0.17	1,900
Fluopyram	47	2.1	0.08	0.17	2,200
Fluxapyroxad	37	1.9	0.07	0.13	1,300
Iprodione	6	1.6	0.65	1.05	1,600
Propiconazole	13	1.1	0.07	0.08	300
Pyraclostrobin	38	1.9	0.07	0.13	1,400
Quinoline	4	1.1	0.11	0.12	100
Sulfur	42	2.9	3.64	10.42	121,700
Thiophanate-methyl	10	2.6	0.58	1.54	4,300
<b>Other chemicals</b>					
Ethephon	79	1.1	0.18	0.19	4,100

<sup>1</sup> Bearing acres in 2017 for Michigan were 27,500 acres.

**Peaches: Agricultural chemical applications, 2017 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, Dimeth. salt	5	1.2	0.94	1.17	100
Diuron	11	1.0	1.21	1.21	300
Glyphosate iso. salt	8	1.4	0.97	1.38	200
Glyhosate pot. salt	5	1.0	1.19	1.19	100
Paraquat	20	1.1	0.72	0.78	300
<b>Insecticides</b>					
Acetamiprid	25	1.5	0.12	0.18	100
Chlorantraniliprole	33	2.1	0.06	0.12	100
Esfenvalerate	55	2.6	0.04	0.09	100
Fenpropathrin	32	1.4	0.28	0.40	300
Imidacloprid	45	2.4	0.06	0.15	100
Permethrin	30	1.6	0.14	0.22	100
Phosmet	66	1.9	1.27	2.40	3,300
<b>Fungicides</b>					
Basic copper sulfate	25	1.4	1.56	2.17	1,200
Captan	75	4.3	1.71	7.27	11,400
Chlorothalonil	28	1.5	2.64	4.02	2,400
Copper chloriide hyd.	30	1.6	0.58	0.93	600
Copper hydroxide	33	2.0	0.76	1.51	1,000
Dodine	14	1.0	0.65	0.65	200
Fenbuconazole	59	3.4	0.13	0.45	600
Fluxapyroxad	27	1.9	0.08	0.16	100
Iprodione	32	1.4	0.97	1.37	900
Myclobutanil	39	2.2	0.10	0.23	200
Oxytetracycline calc	15	2.6	0.15	0.39	100
Oxytetracycline hydro.	14	3.5	0.15	0.52	200
Pyraclostrobin	30	2.1	0.09	0.19	100
Sulfur	62	3.7	5.25	19.41	25,200
Thiophanate-methyl	8	5.9	0.69	4.08	700

<sup>1</sup> Bearing acres in 2017 for Michigan were 2,100 acres.

**Commercial fertilizer consumption: 2011-2015 <sup>1</sup>**

Item	Year ending June 30				
	2010	2011	2012	2013	2014
	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>
<b>Primary plant nutrients</b>					
Total N	197,487	220,893	219,315	283,220	250,338
N in multi-nutrients	47,575	45,116	46,585	57,560	48,333
Total P <sub>2</sub> O <sub>5</sub>	61,478	55,144	60,015	81,768	76,584
P <sub>2</sub> O <sub>5</sub> in multi-nutrients	61,251	55,012	59,010	81,608	76,418
Total K <sub>2</sub> O	123,136	119,301	124,558	171,875	160,972
K <sub>2</sub> O in multi-nutrients	41,448	31,193	31,443	46,003	39,111
Total plant nutrients	382,101	395,337	403,888	536,864	487,894
Average analysis	40.5	37.8	38.3	39	40.7
Total nutrients in multi-nutrients	150,274	131,321	137,038	185,171	163,862
<b>Selected single-nutrient materials</b>					
Ammonium thiosulfate	4,003	3,780	4,905	3,767	8,882
Anhydrous ammonia	32,054	29,847	20,730	35,534	28,088
Nitrogen solutions	277,535	292,265	305,886	379,903	366,048
Urea	75,089	93,879	89,500	122,567	109,146
Ammonium sulfate	31,007	46,145	64,793	62,956	46,551
Concentrated superphosphate	476	260	1,183	91	137
Potassium chloride	127,049	137,516	143,695	197,058	189,187
<b>Multiple-nutrient fertilizers</b>					
N-P-K	166,552	139,609	122,147	186,931	159,761
N-P	102,126	105,275	106,687	145,809	139,516
N-K	74,207	93,538	112,131	121,868	68,845
P-K	3,300	7,575	3,133	830	1,883
<b>Leading multiple-nutrient grades</b>					
10-34-0	30,699	31,057	32,396	43,047	41,909
11-52-0	22,647	20,409	24,852	39,501	36,555
18-46-0	13,940	12,895	11,898	16,023	18,677
12-40-0	4,607	9,786	13,166	15,442	14,423
7-5-5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8,343
<b>Fertilizer consumption by classes</b>					
Dry bulk single-nutrient	269,277	341,633	350,031	429,669	380,004
Dry bagged single-nutrient	11,375	20,890	15,800	58,918	26,887
Fluid single-nutrient	317,128	338,503	345,583	432,687	421,967
Dry bulk multiple-nutrient	185,986	152,928	167,354	193,706	198,336
Dry bagged multiple-nutrient	67,968	101,443	85,734	161,519	47,210
Fluid multiple-nutrient	92,231	91,626	91,010	100,213	124,459
Organics, secondary and micronutrients	76,304	161,347	240,660	87,635	122,191
<b>Total</b>	<b>1,020,269</b>	<b>1,208,370</b>	<b>1,296,172</b>	<b>1,464,347</b>	<b>1,321,054</b>

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

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

**Fertilizer applications: Soybeans, 2017 <sup>1</sup>**

Fertilizer	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Million pounds</i>
Nitrogen (N)	48	1.3	11	15	15.9
Phosphate (P2O5 )	49	1.2	38	44	49.2
Potash (K2O)	74	1.2	72	84	141.0
Sulfur (S)	11	1.5	5	7	1.8

<sup>1</sup> Planted acres in 2017 were 2.280 million acres.

**Agricultural chemical applications: Soybeans, 2017 <sup>1</sup>**

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
Herbicides					
2,4-D, 2-Ehe	7	1.0	0.65	0.65	101,000
2,4-D, Dimeth. salt	2	1.0	0.61	0.61	33,000
Chlorimuron-ethyl	11	1.0	0.01	0.01	3,000
Clethodim	2	1.0	0.08	0.08	4,000
Fomesafen sodium	4	1.0	0.25	0.25	25,000
Glufosinate-ammonium	13	1.1	0.52	0.60	178,000
Glyphosate	2	1.1	0.78	0.89	42,000
Glyphosate iso. salt	49	1.5	0.91	1.36	1,514,000
Glyphosate pot. salt	37	1.5	1.10	1.61	1,372,000
Imazethapyr	9	1.0	0.05	0.05	10,000
Metolachlor	3	1.0	1.17	1.17	85,000
Metribuzin	23	1.1	0.24	0.26	134,000
Pendimethalin	2	1.0	0.80	0.80	38,000
Pyroxasulfone	4	1.0	0.12	0.12	11,000
Saflufenacil	10	1.0	0.02	0.02	5,000
S-metolachlor	5	1.0	1.44	1.44	167,000
Sulfentrazone	6	1.0	0.26	0.27	39,000

<sup>1</sup> Planted acres in 2017 were 2.280 million acres.

**Fertilizer applications: Winter wheat, 2017 <sup>1</sup>**

Fertilizer	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Million pounds</i>
Nitrogen (N)	92	2.1	50	107	47.1
Phosphate (P <sub>2</sub> O <sub>5</sub> )	62	1.0	44	45	13.4
Potash (K <sub>2</sub> O)	80	1.1	55	61	23.4
Sulfur (S)	46	1.2	17	21	4.5

<sup>1</sup> Planted acres in 2017 were 480,000 acres.

**Chemical applications: Winter wheat, 2017 <sup>1</sup>**

Fertilizer	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Pounds</i>
<b>Herbicides</b>					
2,4-D, Demeth. salt	9	1.0	0.39	0.39	16,000
Bromoxynil heptan.	37	1.0	0.09	0.09	15,000
Bromoxynil octanoate	37	1.0	0.09	0.09	16,000
Methanone	37	1.0	0.03	0.03	5,000
Thifensulfuron	11	1.0	0.01	0.01	1,000
<b>Insecticides</b>					
Zeta-cypermethrin	25	1.0	0.02	0.02	2,000
<b>Fungicides</b>					
Fluxapyroxad	10	1.0	0.05	0.05	2,000
Metconazole	14	1.0	0.05	0.05	4,000
Propiconazole	8	1.0	0.04	0.04	2,000
Prothioconazole	44	1.2	0.08	0.10	22,000
Pyraclostrobin	17	1.0	0.09	0.09	7,000
Tebuconazole	41	1.0	0.10	0.10	20,000
Trifloxystrobin	18	1.2	0.07	0.08	7,000
<b>Other chemicals</b>					
Trinexapac-ethyl	11	1.0	0.09	0.09	5,000

<sup>1</sup> Planted acres in 2017 were 480,000.



# Fruit

## Fruit: Record highs and lows

Crop and Unit	Record high		Record low		Year estimates started
	Quantity	Year	Quantity	Year	
Apples..... Million pounds	1,275	2016	53	1945	1889
Blueberries..... Million pounds	117	2013	12	1977	1977
Cherries, sweet..... Tons	37,500	1978	500	1945	1925
Cherries, tart ..... Million pounds	380	1964	12	2012	1925
Grapes..... Tons	102,700	2005	4,200	1889	1889
Peaches ..... Million pounds	255	1945,1946	4.0	2012	1889
Pears ..... Tons	48,600	1964	40	2012	1889
Plums ..... Tons	25,000	1971	65	2012	1919
Strawberries ..... 1,000 cwt	451	1940	28	2015	1928

## Fruit: Bearing acres and value of production, 2013-2017

Item	Unit	2013	2014	2015	2016	2017
Bearing acres .....	1,000 acres	110	106	104	104	102
Value of production .....	1,000 dollars	535,044	477,866	432,596	565,858	458,239

**Fruit: Acres, production, and value, 2013-2017**

Fruit and Year	Bearing acres	Yield	Production		Price	Value of production
			Total	Utilized		
	<i>Acres</i>	<i>Pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
<b>Apples</b>						
2013	36,500	34,500	1,260	1,250	0.204	254,953
2014	33,000	31,100	1,025	1,025	0.216	221,115
2015	33,000	30,200	995	990	0.236	233,288
2016	33,000	38,600	1,275	1,273	0.255	325,195
2017	33,000	25,500	840	839	0.300	251,795
<b>Blueberries <sup>1</sup></b>						
2013	19,500	6,000	117	117	1.070	125,200
2014	20,200	4,900	99	99	1.250	123,840
2015	19,400	3,770	73	73	1.350	98,925
2016	20,300	5,420	110	110	1.190	130,350
2017	20,000	5,010	102	100	1.160	116,400
<b>Cherries, tart</b>						
2013	28,000	7,810	219	216	0.345	74,515
2014	27,900	7,280	203	201	0.342	68,827
2015	28,400	5,560	158	157	0.340	53,499
2016	28,700	7,910	227	225	0.239	53,790
2017	27,500	6,880	189	188	0.211	39,693
<b>Peaches</b>						
2013	3,300	12,500	41.2	39.6	0.353	13,972
2014	2,800	6,320	17.7	16.9	0.460	7,758
2015	2,400	5,980	14.4	14.2	0.417	5,906
2016	2,200	9,640	21.2	21.0	0.438	9,210
2017	2,100	8,660	18.2	18.0	0.565	10,185
	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars per ton</i>	<i>1,000 dollars</i>
<b>Cherries, sweet</b>						
2013	6,600	3.47	22,900	21,800	964	21,012
2014	6,700	4.46	29,860	29,460	941	27,708
2015	6,500	2.07	13,430	13,330	1,020	13,570
2016	6,700	3.37	22,610	22,510	808	18,185
2017	6,300	3.38	21,300	21,020	765	16,090
<b>Grapes</b>						
2013	13,800	6.81	94,000	94,000	373	35,017
2014	13,200	4.80	63,300	63,300	315	19,954
2015	13,000	6.20	80,600	80,600	319	25,734
2016	12,600	7.41	93,400	93,400	312	29,127
2017	12,500	5.09	63,600	63,500	379	24,075
<b>Pears</b>						
2013	700	7.64	5,350	5,180	348	1,805
2014	700	3.89	2,720	2,610	441	1,151
2015	640	3.23	2,070	2,040	605	1,235
2016	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
2017	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Plums</b>						
2013	500	3.78	1,890	1,890	510	964
2014	400	4.25	1,700	1,600	535	856
2015	320	2.38	760	750	585	439
2016	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
2017	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> Harvested acres.

<sup>2</sup> Estimates discontinued.

**Apples: Utilization and price, 2013-2017**

Year	Fresh market		Processing		Total	
	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb
	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>
2013	500	0.345	750	0.110	1,250	0.204
2014	425	0.360	600	0.114	1,025	0.216
2015	450	0.370	540	0.124	990	0.236
2016	635	0.385	638	0.126	1,273	0.255
2017	445	0.420	394	0.164	839	0.300

**Apples, processing: Utilization and price, 2013-2017**

Year	Canned		Frozen and fresh slices		Juice and cider	
	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb
	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>
2013	360	0.112	228	0.132	160	0.070
2014	260	0.110	213	0.128	110	0.088
2015	235	0.130	170	0.140	125	0.088
2016	330	0.120	184	0.142	104	0.105
2017	210	0.165	110	0.176	63	0.140

**Blueberries: Utilization and price, 2013-2017**

Year	Production		Fresh market		Processed	
	Total	Utilized	Quantity	Price per pound	Quantity	Price per pound
	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>
2013	117	117	50	1.700	67	0.600
2014	99	99	48	1.900	51	0.640
2015	73	73	42	1.800	31	0.750
2016	110	110	55	1.720	55	0.650
2017	102	100	54	1.650	47	0.600

**Cherries, Sweet: Production and utilization, 2013-2017**

Year	Total production	Utilized production			
		Fresh		Processed	
		Quantity	Price per ton	Quantity	Price per ton
	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>
2013	22,900	1,200	2,290	20,600	887
2014	29,860	660	2,430	28,800	906
2015	13,430	430	2,650	12,900	964
2016	22,610	1,460	2,420	21,050	696
2017	21,300	1,320	2,070	19,700	678

**Cherries, tart: Utilization, 2013-2017**

Year	Production		Fresh market	Processed					
	Total	Utilized		Canned		Frozen		Other	
				Quantity	Price per pound	Quantity	Price per pound	Quantity	Price per pound
	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>
2013	218.7	215.8	0.3	36.3	0.360	117.5	0.341	61.7	0.342
2014	203.0	200.9	0.1	( <sup>1</sup> )	( <sup>1</sup> )	141.2	0.337	59.6	0.354
2015	158.0	157.4	0.1	26.0	0.341	114.3	0.343	17.0	0.312
2016	227.0	224.7	0.1	35.0	0.249	171.2	0.237	18.4	0.186
2017	189.2	188.0	0.2	28.1	0.223	127.7	0.210	32.0	0.198

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

**Cherries, tart: Production by region, 2013-2017**

Region	2013	2014	2015	2016	2017
	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>
Northwest	126.7	139.2	88.5	138.0	123.1
West Central	62.4	45.0	36.7	67.0	33.8
Southwest and other	29.6	18.9	32.8	22.0	32.3
Michigan	218.7	203.0	158.0	227.0	189.2

**Cherries, tart, frozen: Stocks in cold storage, 2014-2017**

Month	East North Central region <sup>1</sup>				48 States total <sup>2</sup>			
	2014-15	2015-16	2016-17	2017-18	2014-15	2015-16	2016-17	2017-18
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>
July	65,886	117,682	128,136	117,636	103,362	146,251	173,739	155,363
August	128,085	121,651	142,112	127,198	178,542	158,170	196,001	166,554
September	117,557	112,990	134,045	119,658	164,429	159,154	184,839	158,660
October	110,489	101,870	130,571	113,582	153,521	141,734	174,878	154,858
November	104,290	95,729	116,074	106,737	144,280	132,880	156,973	142,281
December	97,601	89,380	106,585	101,660	134,908	123,378	142,913	134,946
January	95,003	84,187	99,849	95,644	129,319	113,844	131,911	125,530
February	89,535	77,052	94,573	90,335	120,870	102,584	121,549	115,381
March	82,644	69,366	87,926	85,122	105,707	91,204	111,923	108,226
April	75,173	63,409	82,718	79,354	98,519	81,431	102,192	98,931
May	66,025	56,492	76,628	73,342	85,866	72,293	93,736	88,879
June	62,950	50,153	70,932	63,980	79,028	63,925	83,809	74,151

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

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

**Grapes: Processed utilization and value, 2013-2017**

Year	Concord	Niagara	Other	Total		
				Utilized production	Price per ton	Value
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	52,000	32,900	9,100	94,000	373	35,017
2014	44,500	16,000	2,800	63,300	315	19,954
2015	54,500	23,800	2,300	80,600	319	25,734
2016	62,200	25,000	6,200	93,400	312	29,127
2017	38,800	17,700	7,000	63,500	379	24,075

**Grapes: Processed for wine by category, 2013-2017**

Year	Hybrids		Vinifera		Other		Total		
	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Value of production
	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2013	3,200	685	4,200	1,635	200	310	7,600	1,200	9,120
2014	820	770	1,600	1,670	180	855	2,600	1,330	3,458
2015	1,400	830	900	1,715	1,000	310	3,300	914	3,016
2016	1,850	775	4,350	1,790	900	330	7,100	1,340	9,512
2017	2,900	840	4,100	1,900	900	295	7,900	1,330	10,507

# Vegetables

**Vegetables: Area planted and harvested, production, and value, by crop, 2016-2017**

Crop	Planted	Harvested	Production	Value
	<i>Acres</i>	<i>Acres</i>	<i>1,000 cwt.</i>	<i>1,000 dollars</i>
Asparagus				
2016	10,200	9,200	230	20,165
2017	9,800	9,000	243	20,816
Snap beans				
2016	19,300	18,400	1,674	32,263
2017	18,300	17,800	1,780	25,898
Cabbage				
2016	3,600	3,500	1,155	15,987
2017	4,300	4,200	1,428	15,744
Carrots				
2016	4,000	3,900	1,326	12,700
2017	4,100	4,000	1,480	14,948
Celery				
2016	1,600	1,500	900	12,605
2017	1,700	1,600	944	12,675
Sweet corn				
2016	9,800	9,200	856	21,818
2017	9,600	9,100	910	20,930
Cucumbers				
2016	41,000	40,400	5,454	69,146
2017	38,000	37,500	5,625	79,739
Bell peppers				
2016	1,600	1,500	390	14,430
2017	1,900	1,800	459	12,531
Pumpkins				
2016	5,400	5,100	791	11,909
2017	5,300	4,900	760	8,314
Squash				
2016	6,300	6,100	1,464	22,020
2017	5,800	5,700	1,311	26,543
Tomatoes				
2016	6,000	5,700	3,164	33,919
2017	5,700	5,500	3,080	35,987
Michigan				
2016	108,800	104,500	17,403	266,962
2017	104,500	101,100	18,020	274,125

**Vegetables, processing: Acres, production, and value, 2013-2017**

Item and Year	Planted	Harvested	Yield	Production	Price per ton	Value
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Cucumbers</b>						
2013	29,000	28,000	5.80	162,400	230.00	37,352
2014	27,900	27,400	6.10	167,140	210.00	35,099
2015	30,000	29,000	5.90	171,100	220.00	37,642
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	208,070	200.00	41,614
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	237,656	235.00	55,849
<b>Snap beans</b>						
2013	18,000	17,800	4.33	77,100	240.00	18,518
2014	(D)	(D)	(D)	(D)	(D)	(D)
2015	16,000	16,000	4.45	71,200	230.00	16,376
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	70,911	240.00	17,019
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	78,765	200.00	15,753
<b>Tomatoes</b>						
2013	3,300	3,200	34.00	108,800	125.00	13,600
2014	3,600	3,400	38.00	129,200	117.00	15,116
2015	3,300	3,200	29.70	95,040	117.00	11,120
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	137,929	110.00	15,172
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	133,056	103.00	13,705

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Estimates discontinued.

**Vegetables, fresh market: Acres, production, and value, 2013-2017**

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value <sup>1</sup>
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
<b>Beans, snap</b>						
2013	2,800	2,600	48	125	57.00	7,125
2014	2,700	2,600	70	182	44.90	8,172
2015	3,100	2,900	73	212	54.20	11,490
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	256	59.50	15,244
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	203	50.00	10,145
<b>Cabbage</b>						
2013	3,100	3,000	230	690	16.00	11,040
2014	3,200	3,100	270	837	16.00	13,392
2015	3,400	3,300	290	957	17.00	16,269
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	(D)
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	(D)
<b>Carrots</b>						
2013	1,700	1,500	290	435	16.60	7,221
2014	1,700	1,600	310	496	15.80	7,837
2015	1,800	1,500	240	360	20.00	7,200
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	(D)
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)	(D)
<b>Corn, sweet</b>						
2013	10,000	9,000	100	900	26.00	23,400
2014	9,700	9,200	90	828	24.70	20,452
2015	9,500	9,000	103	927	26.00	24,102
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	856	25.50	21,818
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	910	23.00	20,930
<b>Cucumbers</b>						
2013	3,600	3,500	190	665	21.00	13,965
2014	3,500	3,400	200	680	20.40	13,872
2015	3,800	3,700	160	592	22.80	13,498
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,293	21.30	27,532
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	872	27.40	23,890
<b>Onions</b>						
2013	2,800	2,700	300	810	15.90	11,082
2014	2,600	2,500	370	925	12.90	11,094
2015	2,500	2,400	330	792	14.10	10,053
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Tomatoes</b>						
2013	2,500	2,400	240	576	55.00	31,680
2014	2,200	1,900	245	466	35.70	16,636
2015	2,700	2,600	300	780	53.60	41,808
2016	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	405	46.30	18,747
2017	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	407	54.80	22,282

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Estimates discontinued.



**Vegetables, dual purpose: Acres, production, and value, 2013-2017**

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Asparagus						
2013	10,300	9,000	23	206	90.50	18,640
2014	10,300	9,000	24	220	93.20	20,505
2015	10,000	8,900	26	228	86.60	19,754
2016	10,200	9,200	25	230	87.70	20,165
2017	9,800	9,000	27	243	85.70	20,816
Celery						
2013	1,900	1,800	575	1,035	19.70	20,359
2014	1,800	1,700	580	985	19.10	18,853
2015	1,700	1,600	580	930	20.30	18,897
2016	1,600	1,500	600	900	14.00	12,605
2017	1,700	1,600	590	944	13.40	12,675
Peppers, bell						
2013	1,600	1,500	250	375	37.00	13,875
2014	1,500	1,400	260	364	37.00	13,468
2015	1,500	1,400	280	392	38.00	14,896
2016	1,600	1,500	260	390	37.00	14,430
2017	1,900	1,800	255	459	27.30	12,531
Pumpkins						
2013	6,600	6,300	155	978	11.50	11,212
2014	6,400	6,100	160	970	11.80	11,398
2015	5,400	5,000	155	770	15.70	12,080
2016	5,400	5,100	155	791	15.10	11,909
2017	5,300	4,900	155	760	11.00	8,314
Squash						
2013	6,200	6,100	200	1,220	14.50	17,690
2014	6,100	6,000	200	1,200	15.00	18,032
2015	5,800	5,600	200	1,114	17.50	19,543
2016	6,300	6,100	240	1,464	15.00	22,020
2017	5,800	5,700	230	1,311	20.20	26,543

# Livestock, Dairy, and Poultry

## Livestock: Record highs and lows

Livestock	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Cattle and calves	1,000 head	2,036	1944	538	1867	1867
Cattle on feed	1,000 head	210	2004	57	1931	1930
Chickens, all <sup>1</sup>	1,000 birds	18,317	2017	6,190	1997	1924
Cows, beef	1,000 head	239	1977	24	1925,1933	1920
Cows, milk	1,000 head	1,080	1945	225	1867	1867
Eggs <sup>2</sup>	Million eggs	4,225	2017	1,104	1929	1924
Hogs and pigs <sup>1</sup>	1,000 head	1,397	1943	512	1934	1867
Honey	1,000 pounds	11,780	1939	3,915	2017	1921
Milk	Million pounds	11,231	2017	3,941	1927	1924
Sheep	1,000 head	3,100	1867	62	1999	1867
Wool	1,000 pounds	8,424	1934	360	2017	1934

<sup>1</sup> December 1.

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

## Cattle and Calves

### Cattle and calves: Number on farms by class, January 1, 2014-2018

Class	2014	2015	2016	2017	2018
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
All cows that have calved	500	510	520	545	530
Beef cows	119	107	108	120	102
Milk cows	381	403	412	425	428
Heifers, 500 pounds and over	240	225	230	235	230
Beef cow replacement	29	23	27	25	24
Milk cow replacement	164	167	172	170	176
Other	47	35	31	40	30
Steers, 500 pounds and over	175	170	170	169	180
Bulls, 500 pounds and over	15	15	15	16	15
Calves, under 500 pounds	200	200	205	215	205
All cattle and calves	1,130	1,120	1,140	1,180	1,160

**Cattle and calves: Balance sheet, 2013-2017**

Year	All cattle and calves on hand January 1	Calf crop	Inshipments	Marketings <sup>1</sup>		Farm slaughter cattle and calves <sup>2</sup>	Deaths		All cattle and calves on hand following January 1
				Cattle	Calves		Cattle	Calves	
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2013	1,140	395	60	344	47	3	25	46	1,130
2014	1,130	385	60	339	45	3	23	45	1,120
2015	1,120	390	59	318	41	3	24	43	1,140
2016	1,140	410	81	338	41	3	24	45	1,180
2017	1,180	410	55	375	41	3	23	43	1,160

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

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

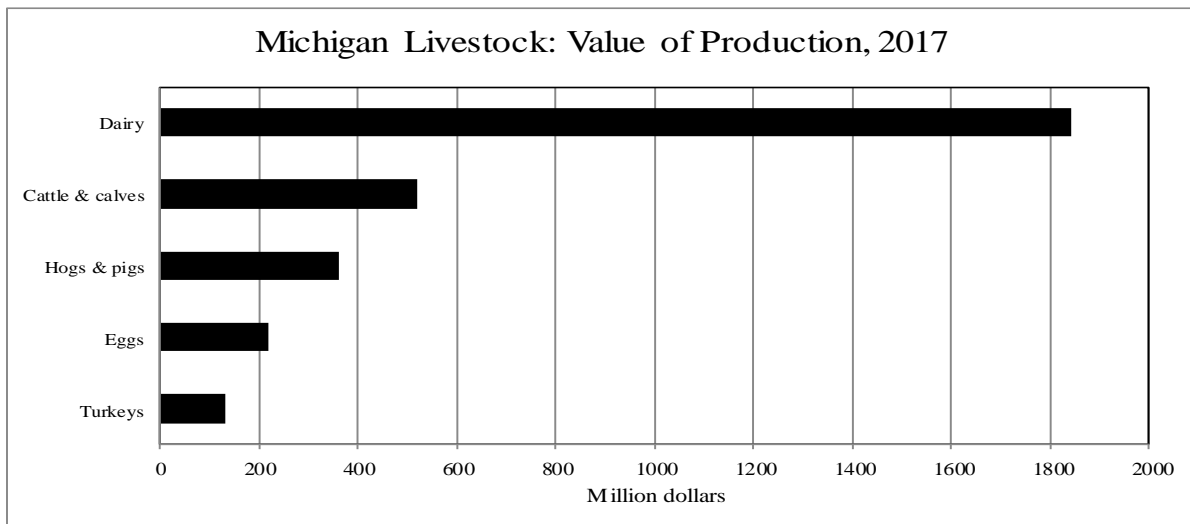
**Cattle and calves: Production and income, 2013-2017**

Year	Production <sup>1</sup>	Marketings <sup>2</sup>	Value of production	Cash receipts <sup>3</sup>	Value of home consumption	Gross income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2013	457,552	478,500	518,536	552,137	16,463	568,600
2014	432,312	465,850	621,183	679,256	20,649	699,905
2015	433,490	441,800	603,120	624,664	19,331	643,995
2016	469,680	476,000	505,309	529,060	15,704	544,764
2017	493,986	527,800	519,426	570,066	15,026	585,092

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

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

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

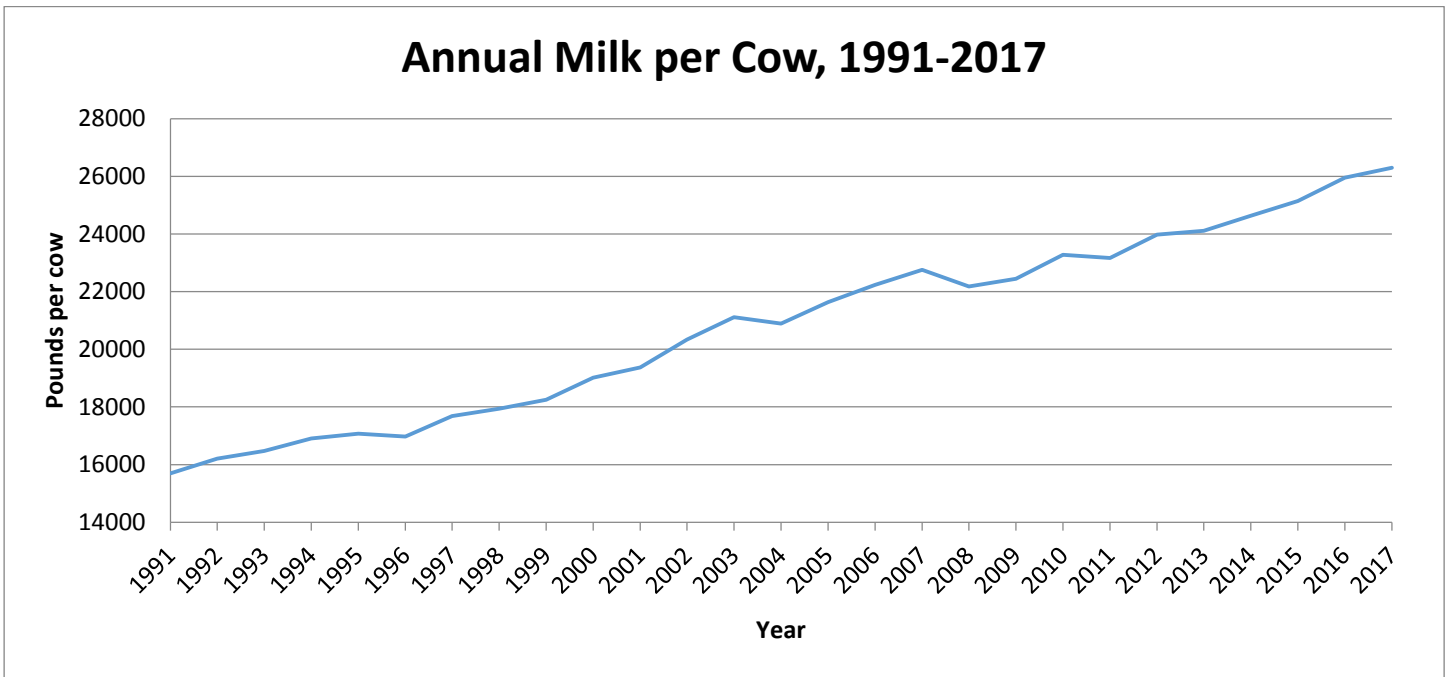


# Dairy

**Milk: Production, utilization, marketings, and value, 2013-2017**

Item	Unit	2013	2014	2015	2016	2017
<b>Production</b>						
Total milk produced on farms	Million pounds	9,164	9,609	10,261	10,876	11,231
Milkfat produced	Million pounds	339.1	355.5	375.6	399.1	417.8
Milkfat	Percent	3.70	3.70	3.66	3.67	3.72
<b>Utilization</b>						
<b>Milk used where produced</b>						
Fed to calves	Million pounds	26	24	26	32	33
Used for milk, cream, and butter	Million pounds	2	2	2	2	2
<b>Milk marketed by producers</b>						
Average return per 100 pounds of milk	Dollars	20.50	24.10	16.60	15.10	16.40
Average return per pound milkfat	Dollars	5.54	6.51	4.54	4.11	4.41
Fluid grade	Percent	100	100	100	100	100
Total cash receipts	1,000 dollars	1,872,880	2,309,503	1,698,678	1,637,142	1,836,144
<b>Value</b>						
Value of milk used where produced <sup>1</sup>	1,000 dollars	5,740	6,266	332	302	328
Total value of milk produced	1,000 dollars	1,878,620	2,315,769	1,703,326	1,642,276	1,841,884

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



**Milk cows: Number by month, 2013-2017**

Month	2013	2014	2015	2016	2017
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
January	378	381	403	413	425
February	378	381	403	414	425
March	( <sup>1</sup> )	381	403	416	425
April	( <sup>1</sup> )	383	404	417	426
May	( <sup>1</sup> )	384	407	418	427
June	( <sup>1</sup> )	387	408	419	427
July	381	394	409	420	427
August	381	394	410	422	428
September	381	396	410	422	428
October	380	397	410	422	428
November	380	399	411	423	428
December	380	402	412	425	428
Annual	380	390	408	419	427

<sup>1</sup> No estimate due to sequestration.

**Milk production: Total by month, 2013-2017**

Month	2013	2014	2015	2016	2017
	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>
January	779	779	846	896	931
February	711	716	766	849	863
March	794	796	858	924	963
April	765	789	848	903	948
May	798	824	893	955	989
June	770	807	871	922	948
July	766	835	888	932	963
August	781	833	877	920	954
September	739	792	826	880	899
October	760	816	861	903	935
November	733	786	843	882	905
December	768	836	884	910	933
Annual	9,164	9,609	10,261	10,876	11,231

**Milk: Production per cow, by month, 2013-2017**

Month	2013	2014	2015	2016	2017
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
January	2,060	2,045	2,100	2,170	2,190
February	1,880	1,880	1,900	2,050	2,030
March	( <sup>1</sup> )	2,090	2,130	2,220	2,265
April	( <sup>1</sup> )	2,060	2,100	2,165	2,225
May	( <sup>1</sup> )	2,145	2,195	2,285	2,315
June	( <sup>1</sup> )	2,085	2,135	2,200	2,220
July	2,010	2,120	2,170	2,220	2,255
August	2,050	2,115	2,140	2,180	2,230
September	1,940	2,000	2,015	2,085	2,100
October	2,000	2,055	2,100	2,140	2,185
November	1,930	1,970	2,050	2,085	2,115
December	2,020	2,080	2,145	2,140	2,180
Annual	24,116	24,638	25,150	25,957	26,302

<sup>1</sup> No estimate due to sequestration.

**Dairy Products, by Region, 2013-2017**

Product	Region	2013	2014	2015	2016	2017
		<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>
Cheese, total <sup>1</sup>	Central	4,973.6	5,064.2	5,293.5	5,493.3	5,848.6
Cheese, American type <sup>2</sup>	Central	2,106.7	2,188.4	2,250.2	2,300.3	2,581.4
Cheese, Italian	Central	1,903.0	1,899.2	2,025.1	2,136.6	2,201.4
Butter	Central	720.7	741.1	732.6	756.2	781.9
Cottage cheese, lowfat	Central	126.1	128.0	129.5	131.0	128.0
Cottage cheese, creamed	Central	139.1	141.1	151.9	161.2	168.9
Cottage cheese curd	Central	157.8	158.5	171.6	174.1	175.8
Yogurt, plain and flavored	Central	1,963.5	2,058.0	2,074.1	1,977.6	1,843.3
Condensed skim milk, unsweetened, bulk	Central	496.0	606.9	741.7	748.6	738.4
Nonfat dry milk for human food	Central	256.4	283.1	303.9	341.1	357.2
Dry whey for human food	Central	445.9	407.3	450.0	450.2	486.8
		<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>	<i>1,000 gallons</i>
Ice cream, regular, hard	Central	441,468	424,415	411,813	420,463	428,660
Ice cream, lowfat, total	Central	241,154	245,295	278,528	287,154	294,808
Sherbet, hard	Central	25,115	23,076	23,121	21,546	21,039
Frozen yogurt mix	Central	12,056	11,118	14,437	13,388	12,304
Ice cream mix, regular	Central	251,571	241,364	237,097	241,522	250,983
Ice cream mix, lowfat	Central	157,727	160,400	170,417	166,049	169,325
Ice cream mix, lowfat	Michigan	16,942	16,373	15,189	12,252	13,047
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Number of Plants	United States	1,265	1,269	1,273	1,298	1,306
Number of Plants	Michigan	53	51	52	51	51

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

<sup>2</sup> Includes Cheddar, Colby, and Jack.

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

**Milk and milk cow replacement prices received by farmers, 2017-2018**

Month	Milk cows per head <sup>1</sup>	All milk wholesale per cwt
	<i>Dollars</i>	<i>Dollars</i>
2017		
January	1,600	18.10
February		17.50
March		16.50
April	1,650	15.40
May		15.30
June		15.80
July	1,600	16.00
August		16.60
September		16.50
October	1,650	16.30
November		16.60
December		16.00
2018		
January	1,500	14.90
February		13.80
March		14.10
April	1,300	14.50
May		14.80
June		14.80
July	1,300	14.20
August		14.60
September		
October		
November		
December		

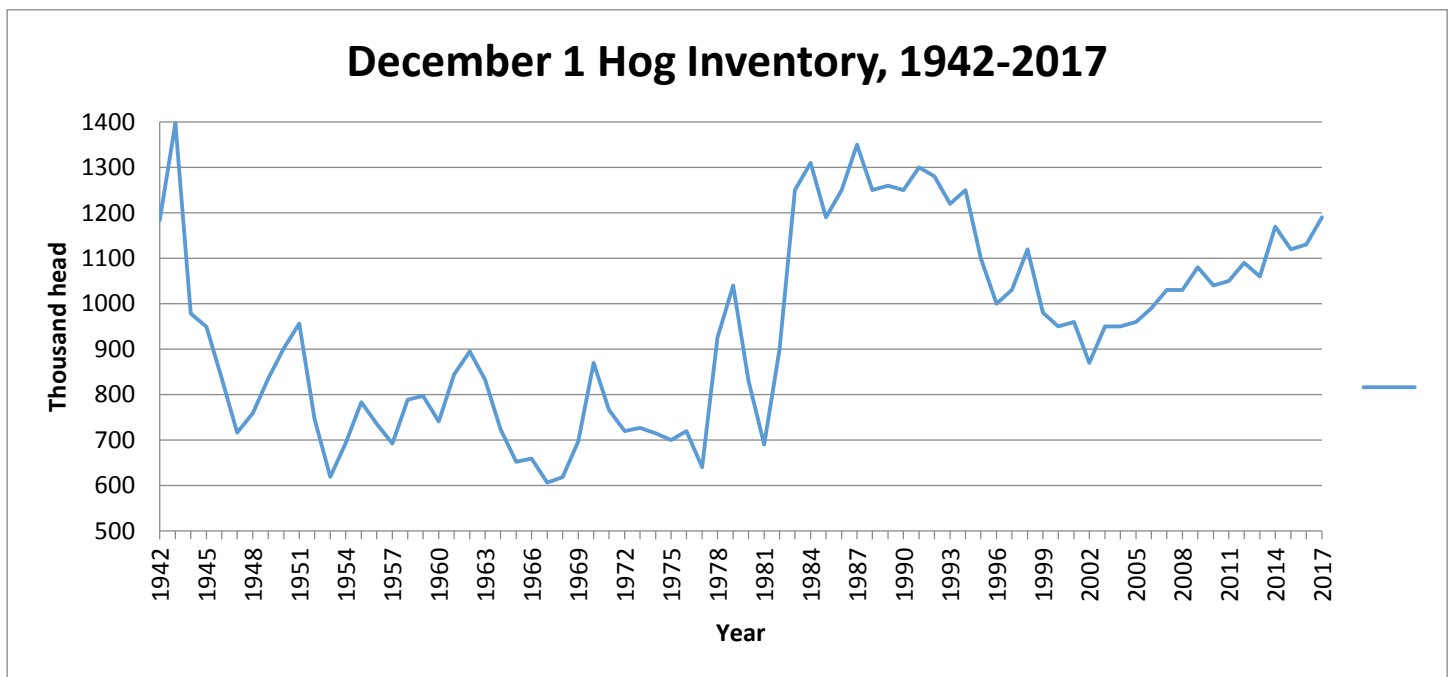
<sup>1</sup> Sold for dairy herd replacement only. Prices published January, April, July, and October.

# Hogs and Pigs

**Hogs and pigs: Inventory, 2014-2018**

Month and year	Market hogs and pigs					Breeding stock	Total hogs and pigs
	Under 50 pounds	50-119 pounds	120-179 pounds	180 lbs and over	Total market		
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
March 1							
2014	275	190	225	200	890	110	1,000
2015	295	235	260	240	1,030	110	1,140
2016	290	260	260	250	1,060	110	1,170
2017	285	245	240	230	1,000	110	1,110
2018	320	265	245	250	1,080	120	1,200
June 1							
2014	270	210	200	200	880	110	990
2015	275	255	240	220	990	110	1,100
2016	305	255	240	240	1,040	110	1,150
2017	290	240	245	225	1,000	110	1,110
2018	310	290	220	260	1,080	120	1,200
September 1							
2014	290	225	205	200	920	110	1,030
2015	295	250	215	230	1,000	110	1,110
2016	310	270	235	235	1,035	105	1,140
2017	300	260	250	250	1,070	120	1,190
2018	330	290	220	260	1,100	120	1,220
December 1							
2014	310	245	250	255	1,060	110	1,170
2015	275	250	240	245	1,010	110	1,120
2016	300	265	215	240	1,020	110	1,130
2017	330	240	245	245	1,060	120	1,190
2018 <sup>1</sup>							

<sup>1</sup> Published in December 2018.





**Hogs and pigs: Sows farrowing and pig crop, 2013-2018**

Year	December-February <sup>1</sup>			March-May		
	Sows farrowing	Pigs per litter	Pig crop	Sows farrowing	Pigs per litter	Pig crop
	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>
2014	49	9.20	451	52	8.90	463
2015	52	10.50	546	50	10.70	535
2016	51	10.60	541	48	10.50	504
2017	50	10.40	520	50	10.50	525
2018	53	10.70	567	53	10.90	578
	June-August			September-November		
2014	51	10.10	515	53	10.20	541
2015	52	11.00	572	51	10.70	546
2016	50	10.50	525	49	10.60	519
2017	54	10.80	583	53	10.90	578
2018	57	10.80	616	58		

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

**Hogs and pigs: Balance sheet, 2013-2017**

Year	Beginning inventory	Dec-Nov pig crop	Inshipments	Marketings <sup>1</sup>	Farm slaughter <sup>2</sup>	Deaths	Number on hand December 1
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2013	1,090	2,055	250	2,263	2	70	1,060
2014	1,060	1,970	250	2,044	2	64	1,170
2015	1,170	2,199	250	2,429	2	68	1,120
2016	1,120	2,089	300	2,305	2	72	1,130
2017	1,130	2,206	551	2,622	2	73	1,190

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

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

**Hogs and pigs: Production and income, 2013-2017**

Year	Production <sup>1</sup>	Marketings <sup>2</sup>	Value of production	Cash receipts <sup>3</sup>	Value of home consumption	Gross income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2013	561,091	574,745	377,604	395,702	715	396,417
2014	523,468	516,710	392,522	397,367	807	398,174
2015	617,982	630,370	339,815	353,600	619	354,219
2016	588,788	595,869	294,849	305,088	578	305,666
2017	679,602	681,900	359,309	372,690	607	373,297

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

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

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

# Honey

**Honey: Production and value, 2013-2017 <sup>1</sup>**

Year	Honey producing colonies	Yield per colony	Production	Price per pound	Value of production	Stocks Dec 15 <sup>2</sup>
	<i>Thousands</i>	<i>Pounds</i>	<i>1,000 pounds</i>	<i>Cents</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>
2013	85	55	4,675	216	10,098	982
2014	91	63	5,733	249	14,275	1,835
2015	90	58	5,220	244	12,737	1,984
2016	89	60	5,340	237	12,656	1,709
2017	87	45	3,915	241	9,435	822

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

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

# Mink

**Mink: Farms, pelts produced and females bred to produce kits, 2014-2018**

Year	2014	2015	2016	2017	2018
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Pelts produced	53,200	60,250	64,500	77,700	( <sup>1</sup> )
Females bred to produce kits	17,500	17,550	17,640	19,900	15,530

<sup>1</sup> Published in July 2019.

# Poultry

## Chickens: Layers on hand, December 1, 2013-2017

Class	2013	2014	2015	2016	2017
	<i>1,000 birds</i>	<i>1,000 birds</i>	<i>1,000 birds</i>	<i>1,000 birds</i>	<i>1,000 birds</i>
Total layers	13,195	13,192	13,249	14,193	14,676
Pullets not of laying age	3,080	2,819	3,704	3,937	3,637
Other chickens	3	0	0	3	4
All chickens (excluding broilers)	16,278	16,011	16,953	18,133	18,317

## All eggs: Production and value, 2013-2017 <sup>1</sup>

Year	Eggs produced	Value of production
	<i>Million</i>	<i>1,000 dollars</i>
2013	3,818	271,400
2014	3,866	325,518
2015	3,845	494,947
2016	3,964	163,234
2017	4,225	220,346

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

## All egg production, by month, 2013-2017

Month	2013	2014	2015	2016	2017
	<i>Million eggs</i>	<i>Million eggs</i>	<i>Million eggs</i>	<i>Million eggs</i>	<i>Million eggs</i>
December	325	324	334	329	361
January	325	310	327	331	347
February	293	291	294	318	319
March	333	343	328	345	366
April	319	326	315	333	355
May	316	323	323	335	355
June	306	316	310	320	337
July	320	330	318	332	360
August	327	331	325	325	363
September	317	326	318	312	346
October	323	328	331	337	359
November	314	318	322	346	357
Total <sup>1</sup>	3,818	3,866	3,845	3,964	4,225

<sup>1</sup> December 1 previous year through November 30. Sum of months may not add to total due to rounding.

**All layers: Average number on hand during the month, 2013-2017**

Month	2013	2014	2015	2016	2017
	<i>1,000 birds</i>	<i>1,000 birds</i>	<i>1,000 birds</i>	<i>1,000 birds</i>	<i>1,000 birds</i>
December	12,811	12,986	13,093	13,138	14,109
January	12,824	12,708	13,062	13,208	14,079
February	13,003	12,962	13,147	13,383	14,331
March	13,130	13,282	12,916	13,313	14,375
April	13,090	13,123	12,710	13,130	14,286
May	12,887	12,991	12,780	12,954	14,338
June	12,844	13,097	12,904	13,109	14,326
July	12,962	13,082	13,069	13,336	14,335
August	13,103	12,974	12,991	13,225	14,125
September	12,892	12,982	12,771	13,369	14,041
October	12,828	13,103	12,843	13,961	14,320
November	13,131	13,200	13,120	14,238	14,570
Annual <sup>1</sup>	12,959	13,041	12,951	13,364	14,270

<sup>1</sup> December 1 previous year through November 30. Sum of months may not add to total due to rounding.

**Turkeys: Number raised and production, 2013-2017 <sup>1</sup>**

Year	Number produced	Pounds produced	Value of production
	<i>Thousand birds</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>
2013	5,200	210,600	140,049
2014	5,100	205,530	151,065
2015	5,200	204,880	166,158
2016	5,400	216,540	178,862
2017	5,100	206,040	133,102

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

## Sheep and Goats

**Sheep and lambs: Number on farms by class, January 1, 2014-2018**

Class	2014	2015	2016	2017	2018
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>
Breeding sheep 1 year and older					
Ewes	43	40	42	44	41
Rams	3	3	3	3	3
Replacement lambs	13	12	13	14	13
Total market sheep and lambs	22	21	24	24	23
All sheep and lambs	81	76	82	85	80

**Sheep and lambs: Lamb  
crop, 2013-2017**

Year	Breeding ewes <sup>1</sup>	Lambs per 100 ewes <sup>1</sup>	Lamb crop
	<i>1,000 Head</i>	<i>Number</i>	<i>1,000 Head</i>
2013	43	147	63
2014	43	140	60
2015	40	123	49
2016	42	119	50
2017	44	111	49

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

**Sheep and lambs: Wool production and value, 2013-2017**

Year	Sheep shorn	Weight per fleece	Production	Price per pound	Value of production
	<i>1,000 Head</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>
2013	65	6.2	400	85	340
2014	63	6.0	380	86	327
2015	66	6.0	395	72	284
2016	68	6.0	405	71	288
2017	60	6.0	360	60	216

**Milk goats: Number, January 1, 2014-2018**

Year	Milk
	<i>Head</i>
2014	11,400
2015	11,300
2016	11,800
2017	12,500
2018	11,500

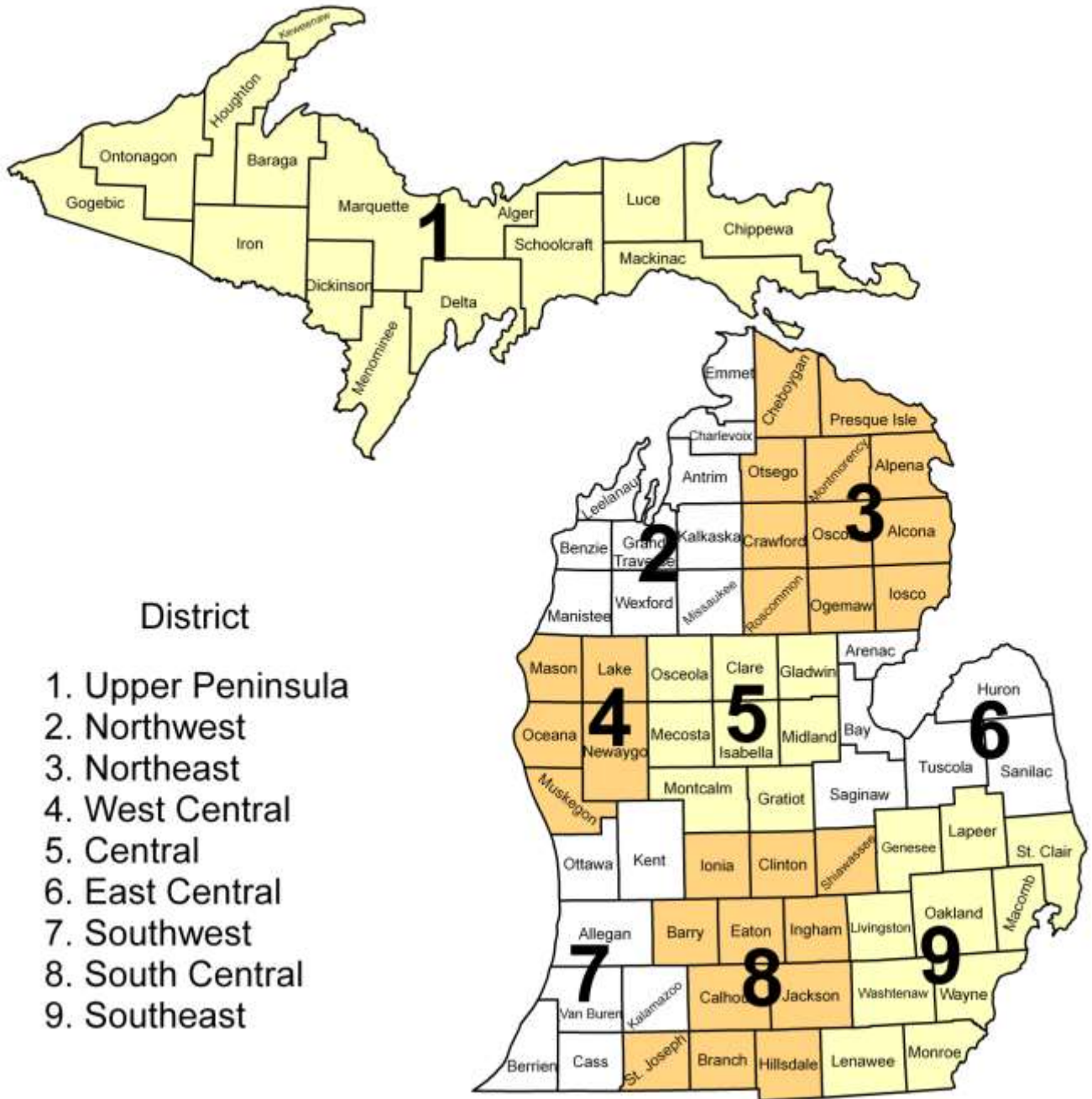
## Trout

**Trout: Value of fish sold and distributed, 2013-2017**

Year	Total value of fish sold	Total value of distributed fish	Trout lost, intended for sale	
			Number lost	Pounds lost
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000</i>	<i>1,000</i>
2013	709	925	147	30
2014	619	966	71	17
2015	1,347	2,629	61	16
2016	1,402	5,106	193	34
2017	1,492	4,667	79	39

# Agricultural Statistics Districts

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



**Principal counties for field crops, 2017 <sup>1</sup>**

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

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

<sup>2</sup> Based on 2012 Census of Agriculture

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

Rank	January 1, 2018 Cattle and calves	Hogs and pigs <sup>2</sup>	January 1, 2018 Milk cows
1	Huron	Allegan	Huron
2	Sanilac	Cass	Clinton
3	Clinton	Ionia	Sanilac
4	Gratiot	Mecosta	Allegan
5	Allegan	Gratiot	Gratiot

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

<sup>2</sup> Based on 2012 Census of Agriculture

**Principal counties for fruits and vegetables, 2012 <sup>1</sup>**

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

<sup>1</sup> Based on acres from 2012 Census of Agriculture.

**Corn: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup>**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Delta	3,600	2,800	128.6	360	(D)	(D)	(D)	(D)
Dickinson	1,100	600	113.3	68	(D)	(D)	(D)	(D)
Menominee	15,400	6,100	132.8	810	(D)	(D)	(D)	(D)
Other counties	1,900	500	124.0	62	19,000	7,000	88.6	620
<b>Upper Peninsula</b>	22,000	10,000	130.0	1,300	19,000	7,000	88.6	620
Antrim	2,300	1,100	122.7	135	1,600	800	106.3	85
Benzie	1,500	900	116.7	105	1,600	1,300	126.9	165
Charlevoix	3,000	2,200	96.8	213	3,200	2,500	114.0	285
Grand Traverse	6,800	4,700	83.0	390	5,800	4,900	125.5	615
Leelanau	2,600	1,500	56.0	84	2,600	2,300	119.6	275
Manistee	2,100	1,400	85.7	120	2,400	1,900	118.4	225
Missaukee	23,200	4,200	129.8	545	21,500	6,400	151.6	970
Wexford	5,100	3,400	96.5	328				
Other counties	1,400	600	133.3	80	7,300	4,900	124.5	610
<b>Northwest</b>	48,000	20,000	100.0	2,000	46,000	25,000	129.2	3,230
Alcona	3,700	2,700	116.7	315	2,600	1,800	133.3	240
Alpena	7,700	5,400	88.9	480	6,600	4,700	104.3	490
Iosco	6,700	4,500	128.9	580	7,000	5,500	141.8	780
Montmorency	1,000	800	71.3	57	1,400	1,000	140.0	140
Ogemaw	13,000	9,000	138.9	1,250	12,500	8,600	153.5	1,320
Otsego	1,000	800	75.0	60	(D)	(D)	(D)	(D)
Presque Isle	5,800	4,500	117.8	530	(D)	(D)	(D)	(D)
Other counties	2,100	1,300	98.5	128	8,900	6,400	134.4	860
<b>Northeast</b>	41,000	29,000	117.2	3,400	39,000	28,000	136.8	3,830
Lake	1,700	1,300	130.8	170	(D)	(D)	(D)	(D)
Mason	13,700	9,600	140.6	1,350	14,000	10,800	164.8	1,780
Muskegon	14,600	10,300	153.4	1,580	(D)	(D)	(D)	(D)
Newaygo	24,000	13,800	150.7	2,080	24,000	14,000	139.3	1,950
Oceana	15,000	12,000	150.0	1,800	13,500	11,300	137.2	1,550
Other counties					14,500	10,900	142.2	1,550
<b>West Central</b>	69,000	47,000	148.5	6,980	66,000	47,000	145.3	6,830
Clare	6,600	3,400	117.6	400	5,900	4,000	145.0	580
Gladwin	8,200	6,800	145.6	990	7,800	5,400	150.0	810
Gratiot	87,000	74,000	160.1	11,850	87,000	71,000	157.7	11,200
Isabella	42,000	33,100	155.3	5,140	42,000	34,300	150.7	5,170
Mecosta	26,000	22,500	144.9	3,260	26,000	21,700	133.2	2,890
Midland	23,500	22,800	168.9	3,850	18,200	17,100	167.8	2,870
Montcalm	59,000	51,500	156.1	8,040	61,000	53,000	134.2	7,110
Osceola	12,700	5,900	130.5	770	12,100	6,500	133.8	870
<b>Central</b>	265,000	220,000	155.9	34,300	260,000	213,000	147.9	31,500
Arenac	18,000	15,000	146.7	2,200	16,500	15,000	156.7	2,350
Bay	55,000	53,000	167.9	8,900	48,500	46,000	160.9	7,400
Huron	110,000	75,000	170.7	12,800	99,000	71,000	197.9	14,050
Saginaw	90,000	88,000	164.8	14,500	88,000	82,000	164.0	13,450
Sanilac	106,000	77,000	184.4	14,200	102,000	76,000	185.5	14,100
Tuscola	81,000	76,000	173.7	13,200	76,000	70,000	172.1	12,050
<b>East Central</b>	460,000	384,000	171.4	65,800	430,000	360,000	176.1	63,400

See footnote(s) at end of table.

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**Corn: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup> (continued)**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Allegan	76,000	60,000	173.3	10,400	76,000	57,000	177.2	10,100
Berrien	(D)	(D)	(D)	(D)	47,000	44,000	176.1	7,750
Cass	82,000	79,000	154.4	12,200	78,000	72,000	158.3	11,400
Kalamazoo	57,000	53,000	150.9	8,000	58,000	52,000	157.7	8,200
Kent	39,000	32,000	160.9	5,150	37,000	28,000	162.5	4,550
Ottawa	43,000	28,000	158.9	4,450	(D)	(D)	(D)	(D)
Other counties	98,000	93,000	166.7	15,500	79,000	62,000	166.1	10,300
<b>Southwest</b>	395,000	345,000	161.4	55,700	375,000	315,000	166.0	52,300
Barry	45,000	35,000	150.0	5,250	42,000	32,000	170.3	5,450
Branch					84,000	80,000	155.0	12,400
Calhoun	85,000	80,000	136.3	10,900	77,000	71,000	129.6	9,200
Clinton	74,000	51,000	164.7	8,400	67,000	44,000	146.6	6,450
Eaton					53,000	51,000	166.7	8,500
Hillsdale	78,000	70,000	162.9	11,400	70,000	62,000	154.8	9,600
Ingham	53,000	50,000	157.2	7,860	50,000	45,000	153.3	6,900
Ionia	83,000	69,000	169.6	11,700	79,000	64,000	170.3	10,900
Jackson	60,000	54,000	123.7	6,680	53,000	47,000	128.7	6,050
St Joseph	83,000	79,000	123.8	9,780	80,000	75,000	122.0	9,150
Shiawassee	55,000	50,000	150.0	7,500	50,000	44,000	152.3	6,700
Other counties	149,000	142,000	158.7	22,530				
<b>South Central</b>	765,000	680,000	150.0	102,000	705,000	615,000	148.5	91,300
Genesee					30,000	28,000	148.9	4,170
Lapeer	33,000	29,000	170.7	4,950	33,000	29,500	186.4	5,500
Lenawee	112,000	99,000	165.7	16,400	100,000	87,000	182.8	15,900
Livingston	20,000	18,000	155.6	2,800	19,000	16,700	158.1	2,640
Macomb	10,100	8,600	168.6	1,450	9,900	8,800	170.5	1,500
Monroe	60,000	59,000	169.5	10,000	57,000	55,000	170.2	9,360
Oakland					2,900	2,700	151.9	410
St Clair	22,000	19,900	160.8	3,200	20,000	18,200	167.6	3,050
Washtenaw	41,000	37,000	137.8	5,100	37,000	33,000	146.1	4,820
Wayne	1,300	1,200	116.7	140	1,200	1,100	136.4	150
Other counties	35,600	33,300	142.9	4,760				
<b>Southeast</b>	335,000	305,000	160.0	48,800	310,000	280,000	169.6	47,500
<b>Michigan</b>	2,400,000	2,040,000	157.0	320,280	2,250,000	1,890,000	159.0	300,510

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Counties not listed are not published due to insufficient data or to avoid disclosure of individual operations.

**Dry edible beans, all: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup>**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>
Gratiot	(D)	(D)	(D)	(D)	6,400	6,280	1,640	103.0
Isabella	3,500	3,350	1,670	56.0	(D)	(D)	(D)	(D)
Mecosta	(D)	(D)	(D)	(D)	1,300	1,250	1,680	21.0
Montcalm	7,300	7,200	1,500	108.0	7,800	7,760	1,490	116.0
Other counties	11,500	11,450	1,970	226.0	8,900	8,610	1,590	137.0
<b>Central</b>	22,300	22,000	1,770	390.0	24,400	23,900	1,580	377.0
Bay	18,900	18,800	1,790	337.0	17,200	17,100	1,670	285.0
Huron	76,600	76,600	2,100	1,605.0	81,600	81,500	2,310	1,879.0
Saginaw	7,000	7,000	1,990	139.0	(D)	(D)	(D)	(D)
Sanilac	26,000	25,500	2,000	510.0	23,800	23,800	2,210	525.0
Tuscola	(D)	(D)	(D)	(D)	41,000	40,700	1,940	790.0
Other counties	42,500	42,300	1,840	780.0	11,900	11,900	1,800	214.0
<b>East Central</b>	171,000	170,200	1,980	3,371.0	175,500	175,000	2,110	3,693.0
Shiawassee	1,300	1,300	2,260	29.4	(D)	(D)	(D)	(D)
Other counties	1,700	1,500	1,730	26.0	(D)	(D)	(D)	(D)
<b>South Central</b>	3,000	2,800	1,980	55.4	(D)	(D)	(D)	(D)
Other counties	2,100	2,000	1,940	38.7	(D)	(D)	(D)	(D)
<b>Southeast</b>	2,100	2,000	1,940	38.7	(D)	(D)	(D)	(D)
<b>Other districts</b>	11,600	11,000	1,340	146.9	20,100	19,600	1,650	324.0
<b>Michigan</b>	210,000	208,000	1,920	4,002.0	220,000	218,500	2,010	4,394.0

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Counties not listed are not published due to insufficient data or to avoid disclosure of individual operations.

**Oats: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup>**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Chippewa	1,500	1,240	52.3	64.9	900	670	37.2	24.9
Delta	2,400	1,500	73.3	110.0				
Dickinson	800	600	39.7	23.8	500	410	41.7	17.1
Mackinac	900	580	54.1	31.4				
Marquette	600	180	78.9	14.2				
Other counties	6,700	2,920	49.6	144.7	7,600	6,420	48.6	312.0
<b>Upper Peninsula</b>	12,900	7,020	55.4	389.0	9,000	7,500	47.2	354.0
Emmet	1,000	600	55.5	33.3				
Grand Traverse	1,900	900	63.9	57.5	2,800	2,670	25.0	66.7
Missaukee					900	380	39.5	15.0
Other counties	3,900	2,170	49.9	108.2	2,600	2,330	40.0	93.3
<b>Northwest</b>	6,800	3,670	54.2	199.0	6,300	5,380	32.5	175.0
Alcona	700	320	43.8	14.0				
Alpena	1,400	870	82.0	71.3				
Cheboygan					500	480	65.0	31.2
Iosco	1,000	600	53.8	32.3	700	310	65.2	20.2
Ogemaw	1,700	680	56.9	38.7				
Otsego	700	600	40.8	24.5				
Presque Isle	2,200	1,200	46.8	56.2				
Other counties	1,200	430	58.1	25.0	6,000	4,890	59.4	290.6
<b>Northeast</b>	8,900	4,700	55.7	262.0	7,200	5,680	60.2	342.0
Mason	1,000	800	51.0	40.8	1,100	1,040	60.8	63.2
Newaygo	700	510	45.1	23.0	700	640	45.0	28.8
Oceana	600	590	64.9	38.3				
Other counties	600	200	64.5	12.9	800	630	57.1	36.0
<b>West Central</b>	2,900	2,100	54.8	115.0	2,600	2,310	55.4	128.0
Clare					600	580	57.9	33.6
Gladwin	600	400	59.0	23.6	600	540	48.0	25.9
Isabella	1,800	800	71.6	57.3	1,300	1,110	52.3	58.1
Mecosta	1,500	660	45.3	29.9	1,600	1,340	60.8	81.5
Other counties	8,800	2,460	57.8	142.2	7,800	2,710	47.2	127.9
<b>Central</b>	12,700	4,320	58.6	253.0	11,900	6,280	52.1	327.0

See footnote(s) at end of table.

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**Oats: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup> (continued)**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Arenac	800	380	67.9	25.8				
Huron					2,100	1,600	90.0	144.0
Saginaw	700	200	66.0	13.2				
Sanilac	3,300	610	84.6	51.6				
Tuscola	600	140	74.3	10.4				
Other counties	3,600	720	86.1	62.0	5,500	4,770	70.0	334.0
<b>East Central</b>	9,000	2,050	79.5	163.0	7,600	6,370	75.0	478.0
Allegan					600	130	33.8	4.4
Kalamazoo	600	50	82.0	4.1				
Kent	1,400	710	49.0	34.8	1,200	850	44.5	37.8
Other counties	1,500	890	60.8	54.1	1,500	470	44.0	20.7
<b>Southwest</b>	3,500	1,650	56.4	93.0	3,300	1,450	43.4	62.9
Calhoun	500	490	34.9	17.1				
Hillsdale	700	300	85.7	25.7	700	500	71.0	35.5
Ingham	500	500	69.2	34.6				
Jackson	500	200	63.0	12.6	600	400	50.0	20.0
Shiawassee	700	500	40.6	20.3	800	480	72.5	34.8
Other counties	3,400	1,100	66.1	72.7	3,100	2,450	56.2	137.7
<b>South Central</b>	6,300	3,090	59.2	183.0	5,200	3,830	59.5	228.0
Lapeer					500	390	66.4	25.9
Other counties	2,000	1,400	59.3	83.0	1,400	810	48.4	39.2
<b>Southeast</b>	2,000	1,400	59.3	83.0	1,900	1,200	54.3	65.1
<b>Michigan</b>	65,000	30,000	58.0	1,740.0	55,000	40,000	54.0	2,160.0

<sup>1</sup> Counties not listed are not published due to insufficient data or to avoid disclosure of individual operations.

**Soybeans: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup>**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Other counties	4,100	4,100	35.6	146				
<b>Northwest</b>	4,100	4,100	35.6	146				
Montmorency					2,800	2,800	41.8	117
Ogemaw					3,600	3,600	47.8	172
Otsego					800	800	27.5	22
Other counties					25,400	24,700	36.4	898
<b>Northeast</b>					32,600	31,900	37.9	1,209
Mason	6,100	6,070	49.9	303	6,300	6,200	46.8	290
Muskegon	7,900	7,850	51.8	407				
Newaygo	6,800	6,720	43.5	292	8,000	7,900	32.3	255
Oceana					4,900	4,900	43.7	214
Other counties	5,300	5,260	42.8	225	9,700	9,700	40.9	397
<b>West Central</b>	26,100	25,900	47.4	1,227	28,900	28,700	40.3	1,156
Clare	4,500	4,460	43.7	195	7,200	7,100	38.2	271
Gladwin	8,100	8,100	46.5	377	10,200	10,100	43.9	443
Gratiot	79,200	78,800	54.1	4,264	88,500	88,400	42.5	3,754
Isabella	54,700	54,400	52.5	2,857	60,500	60,100	42.2	2,539
Mecosta	7,500	7,460	42.8	319	8,500	8,300	33.1	275
Midland	22,100	22,000	50.2	1,104	28,300	28,200	43.1	1,216
Montcalm	25,800	25,700	51.8	1,330	30,500	30,000	32.5	976
Osceola	1,600	1,580	43.0	68	1,300	1,300	34.6	45
<b>Central</b>	203,500	202,500	51.9	10,514	235,000	233,500	40.8	9,519
Arenac	17,200	17,100	45.4	776	22,400	22,300	43.7	974
Bay	49,500	49,400	54.0	2,670	58,200	58,200	45.7	2,658
Huron	46,800	46,700	51.9	2,425	59,000	58,900	52.3	3,078
Saginaw	113,500	112,800	51.6	5,817	114,000	113,700	43.4	4,930
Sanilac	120,000	119,800	53.6	6,421	129,500	128,200	46.1	5,905
Tuscola	72,000	71,700	52.8	3,788	77,400	77,200	47.5	3,670
<b>East Central</b>	419,000	417,500	52.4	21,897	460,500	458,500	46.3	21,215
Allegan	42,900	42,900	54.5	2,340	47,000	46,900	47.8	2,243
Berrien					44,100	43,900	44.2	1,942
Cass	47,500	47,400	50.7	2,401	51,000	50,800	46.7	2,374
Kalamazoo	33,000	32,900	56.8	1,870	31,900	31,900	47.8	1,525
Kent	24,600	24,500	55.6	1,363				
Ottawa	21,700	21,700	55.6	1,206	25,500	25,400	48.3	1,228
Other counties	62,300	62,100	49.6	3,080	58,500	58,100	41.9	2,437
<b>Southwest</b>	232,000	231,500	53.0	12,260	258,000	257,000	45.7	11,749
Barry	30,900	30,300	48.9	1,483	35,800	35,700	46.4	1,655
Branch	74,000	73,800	47.8	3,530	78,000	77,500	41.2	3,192
Calhoun	75,300	75,100	50.2	3,770	84,200	84,100	35.2	2,961
Clinton	70,100	69,900	54.2	3,790	77,500	77,200	40.4	3,117
Eaton	76,900	76,700	49.6	3,801	83,500	83,400	41.1	3,425
Hillsdale	80,100	79,800	51.2	4,087	88,000	87,900	40.7	3,578
Ingham	53,400	53,100	51.8	2,753	61,000	60,600	41.4	2,510
Ionia	63,000	62,800	54.8	3,440	67,500	67,400	42.9	2,890
Jackson	48,000	47,800	45.4	2,169	52,000	51,900	33.8	1,755
St Joseph	48,000	47,800	50.0	2,388	54,000	53,900	46.1	2,486
Shiawassee	90,300	89,900	47.3	4,250	103,500	103,400	38.7	4,001
<b>South Central</b>	710,000	707,000	50.2	35,461	785,000	783,000	40.3	31,570

See footnote(s) at end of table.

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**Soybeans: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup> (continued)**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Genesee	46,900	46,600	41.8	1,950	50,000	49,700	34.8	1,728
Lapeer	41,900	41,700	48.0	2,000	41,000	40,700	41.3	1,682
Lenawee	120,000	119,800	48.9	5,858	128,000	127,900	46.3	5,927
Livingston	19,100	19,100	51.9	992	20,000	19,900	42.3	841
Macomb	22,200	22,200	49.7	1,104	24,000	23,800	40.4	962
Monroe	80,400	80,100	52.7	4,220	86,500	86,400	45.2	3,908
Oakland	3,600	3,600	47.2	170	3,500	3,500	32.6	114
St Clair	57,700	56,900	48.8	2,778	63,000	62,700	40.6	2,543
Washtenaw	47,500	47,300	47.8	2,262	51,000	50,900	38.6	1,966
Wayne	3,700	3,700	30.0	111	4,500	4,500	25.8	116
<b>Southeast</b>	443,000	441,000	48.6	21,445	471,500	470,000	42.1	19,787
Other districts	32,300	30,500	35.4	1,080	8,500	7,400	36.5	270
<b>Michigan</b>	2,070,000	2,060,000	50.5	104,030	2,280,000	2,270,000	42.5	96,475

<sup>1</sup> Counties not listed are not published due to insufficient data or to avoid disclosure of individual operations.

**Sugarbeets: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup>**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>
Gladwin					700	700	23.1	16.2
Gratiot	9,300	9,170	29.2	268.0	9,000	8,400	21.5	181.0
Midland	3,000	2,930	28.9	84.6	2,800	2,600	20.6	53.6
Montcalm	800	800	29.4	23.5	800	800	27.0	21.6
Other counties	1,500	1,500	32.6	48.9	600	600	26.0	15.6
<b>Central</b>	14,600	14,400	29.5	425.0	13,900	13,100	22.0	288.0
Arenac	2,500	2,500	28.0	70.0	2,200	2,200	25.9	57.0
Bay	12,800	12,700	27.3	347.0	13,100	13,100	20.5	268.0
Huron	51,100	50,800	31.1	1,578.0	50,900	50,900	26.5	1,350.0
Saginaw	15,200	14,700	30.9	454.0	14,200	14,000	24.3	340.0
Sanilac	28,500	28,200	32.6	919.0	25,400	25,400	27.0	685.0
Tuscola	19,900	19,800	31.7	628.0	19,200	19,200	26.1	501.0
<b>East Central</b>	130,000	128,700	31.0	3,996.0	125,000	124,800	25.6	3,201.0
Shiawassee	1,100	1,000	24.9	24.9	900	900	17.8	16.0
Other counties	1,300	1,300	29.8	38.7	700	700	26.1	18.3
<b>South Central</b>	2,400	2,300	27.7	63.6	1,600	1,600	21.4	34.3
Genesee	(D)	(D)	(D)	(D)	400	400	21.0	8.4
Lapeer	1,000	1,000	27.5	27.5	1,200	1,200	24.0	28.8
St Clair	1,800	1,800	28.9	52.1	1,500	1,500	23.7	35.6
Other counties	300	300	31.0	9.3	-	-	-	-
<b>Southeast</b>	3,100	3,100	28.7	88.9	3,100	3,100	23.5	72.8
Other districts	900	500	31.0	15.5	400	400	19.8	7.9
<b>Michigan</b>	151,000	149,000	30.8	4,589.0	144,000	143,000	25.2	3,604.0

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Counties not listed are not published due to insufficient data or to avoid disclosure of individual operations.

**Wheat: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup>**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Alpena	5,200	4,650	53.3	248				
Cheboygan	500	450	79.6	36				
Montmorency	900	850	58.7	50	1,000	800	57.5	46
Ogemaw	4,100	4,000	79.3	317	4,000	3,400	59.7	203
Otsego					1,000	850	45.5	39
Presque Isle	5,700	4,700	39.1	184				
Other counties	6,100	4,650	72.5	337	12,900	11,750	49.6	582
<b>Northeast</b>	22,500	19,300	60.7	1,172	18,900	16,800	51.8	870
Lake	500	450	77.8	35				
Mason	5,600	5,550	63.1	350	4,400	3,500	57.1	200
Muskegon	3,600	2,100	76.7	161				
Newaygo	2,800	2,600	76.5	199	2,100	1,600	71.9	115
Oceana	2,800	2,700	60.7	164				
Other counties					6,000	2,900	71.4	207
<b>West Central</b>	15,300	13,400	67.8	909	12,500	8,000	65.3	522
Clare	2,300	2,250	84.4	190	1,200	1,050	62.6	66
Gladwin	2,600	2,400	70.0	168				
Gratiot	23,600	23,400	84.7	1,982	16,800	15,300	77.3	1,182
Isabella	14,800	14,700	75.3	1,107	12,800	11,700	73.7	862
Mecosta	3,300	3,200	73.4	235	3,100	3,000	71.7	215
Midland	4,300	4,250	84.7	360	3,200	2,900	70.3	204
Other counties	19,200	18,900	70.5	1,332	17,700	15,950	68.5	1,093
<b>Central</b>	70,100	69,100	77.8	5,374	54,800	49,900	72.6	3,622

See footnote(s) at end of table.

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**Wheat: Acreage, yield, and production, by county, 2016-2017 <sup>1</sup> (continued)**

County and district	2016				2017			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Arenac	8,800	8,500	86.5	735	6,500	6,200	70.0	434
Bay	14,300	13,800	81.9	1,130	12,500	11,500	79.6	915
Huron	76,800	73,100	109.7	8,020	70,000	64,000	99.9	6,395
Saginaw	20,500	20,300	94.2	1,912	19,400	17,800	75.5	1,344
Sanilac	52,500	52,000	105.5	5,488	46,000	40,400	91.7	3,705
Tuscola	40,600	39,300	93.3	3,665	33,100	31,100	88.2	2,744
<b>East Central</b>	213,500	207,000	101.2	20,950	187,500	171,000	90.9	15,537
Allegan	6,600	6,300	66.7	420				
Berrien	1,800	1,700	94.1	160				
Cass	2,000	900	45.1	41	1,400	1,300	65.1	85
Kalamazoo					2,100	2,100	69.5	146
Kent	8,000	7,200	80.7	581	5,500	4,420	66.1	292
Ottawa	4,200	4,100	83.2	341	3,500	3,100	55.8	173
Other counties	7,800	3,200	79.8	255	13,500	4,580	66.2	303
<b>Southwest</b>	30,400	23,400	76.8	1,798	26,000	15,500	64.5	999
Barry	6,200	6,000	84.0	504	4,100	3,400	61.8	210
Branch	3,200	3,200	68.8	220	2,400	2,400	65.8	158
Calhoun	5,200	5,200	69.6	362	4,100	3,700	73.8	273
Clinton	21,700	21,100	94.4	1,992	17,300	16,500	76.0	1,254
Eaton	14,300	13,800	86.3	1,191	10,600	9,500	59.9	569
Hillsdale	14,800	13,500	89.6	1,210	9,700	8,780	86.9	763
Ingham	14,800	14,000	93.8	1,313	9,000	7,900	72.8	575
Ionia	16,100	13,800	99.6	1,374	10,900	10,500	79.2	832
Jackson	7,200	6,600	86.5	571	7,300	6,600	75.8	500
St Joseph	5,500	2,500	81.6	204	4,200	620	83.9	52
Shiawassee	31,000	26,700	79.6	2,126	15,500	13,800	63.6	878
<b>South Central</b>	140,000	126,400	87.6	11,067	95,100	83,700	72.4	6,064
Genesee	7,800	7,500	79.2	594	4,700	4,530	63.1	286
Lapeer	7,700	7,100	89.0	632	5,100	5,000	71.6	358
Lenawee	34,500	32,500	98.0	3,185	24,200	23,500	83.8	1,969
Livingston	6,300	6,000	78.2	469	4,500	4,400	68.9	303
Macomb	3,300	3,200	76.6	245	2,300	2,070	76.8	159
Monroe	21,200	20,300	84.2	1,709	17,000	16,000	77.7	1,243
St Clair	11,500	11,000	85.5	940	6,800	5,200	74.2	386
Washtenaw	12,100	12,100	84.7	1,025	9,800	9,000	78.7	708
Other counties	1,600	1,200	72.5	87	800	800	68.8	55
<b>Southeast</b>	106,000	100,900	88.1	8,886	75,200	70,500	77.5	5,467
<b>Other districts</b>	12,200	10,500	54.7	574	10,000	9,600	51.5	494
<b>Michigan</b>	610,000	570,000	89.0	50,730	480,000	425,000	79.0	33,575

<sup>1</sup> Counties not listed are not published due to insufficient data or to avoid disclosure of individual operations.

**Cattle: January 1, by county, 2017-2018**

County	All cattle and calves		Milk cows		County	All cattle and calves		Milk cows	
	2017	2018	2017	2018		2017	2018	2017	2018
	<i>Head</i>	<i>Head</i>	<i>Head</i>	<i>Head</i>		<i>Head</i>	<i>Head</i>	<i>Head</i>	<i>Head</i>
Alcona	4,500	4,400	1,500	1,500	Manistee	1,800	1,800	(D)	(D)
Alger	2,000	2,000	500	500	Marquette	1,500	1,500	(D)	(D)
Allegan	51,000	50,000	22,000	22,500	Mason	10,000	9,900	2,800	2,800
Alpena	9,200	9,100	3,500	3,500	Mecosta	16,600	16,400	5,200	5,200
Antrim	4,500	4,500	(D)	(D)	Menominee	18,400	18,100	7,500	7,500
Arenac	8,600	8,400	3,500	3,500	Midland	7,500	7,400	(D)	(D)
Baraga	(D)	(D)			Missaukee	32,500	32,000	17,000	17,000
Barry	32,000	32,000	15,500	15,500	Monroe	3,800	3,700	700	700
Bay	5,300	5,300	1,800	1,800	Montcalm	27,500	27,000	11,200	11,200
Benzie	1,100	1,100			Montmorency	2,200	2,200	700	700
					Muskegon	14,000	13,500	6,500	6,500
Berrien	4,500	4,400	1,200	1,200					
Branch	12,500	12,300	4,000	4,000	Newaygo	28,500	28,000	14,100	14,100
Calhoun	14,100	14,000	4,800	4,800	Oakland	(D)	(D)	(D)	(D)
Cass	4,500	4,500	600	600	Oceana	8,500	8,500	3,200	3,200
Charlevoix	3,300	3,300	800	800	Ogemaw	17,000	16,700	7,300	7,300
Cheboygan	5,500	5,500	900	900	Ontonagon	1,900	1,900	(D)	(D)
Chippewa	6,600	6,500	800	800	Osceola	20,500	20,000	7,000	7,000
Clare	9,500	9,400	2,900	2,900	Oscoda	3,800	3,700	1,200	1,200
Clinton	62,000	61,000	31,500	32,000	Otsego	1,300	1,300	(D)	(D)
Crawford	(D)	(D)			Ottawa	42,000	42,000	15,000	15,000
Delta	7,200	7,100	1,700	1,700	Presque Isle	5,300	5,100	1,300	1,300
Dickinson	2,800	2,700	500	500	Roscommon	(D)	(D)		
Eaton	12,500	12,300	2,200	2,200	Saginaw	8,300	8,100	3,000	3,000
Emmet	3,800	3,800	300	300	Sanilac	72,000	70,000	28,000	28,000
Genesee	6,000	5,800	1,500	1,500	Schoolcraft	(D)	(D)	(D)	(D)
Gladwin	6,300	6,200	1,100	1,100	Shiawassee	18,300	18,000	6,200	6,200
Gogebic	(D)	(D)			Tuscola	22,000	22,000	7,000	7,000
Grand Traverse	3,100	3,100	200	200	Van Buren	13,000	12,800	6,000	6,000
Gratiot	53,000	53,000	20,000	21,000					
Hillsdale	27,000	26,500	12,000	12,000	Washtenaw	10,000	9,800	2,400	2,400
					Wayne	(D)	(D)		
Houghton	1,700	1,600	400	400	Wexford	3,500	3,500	1,000	1,000
Huron	150,000	145,000	45,500	46,000					
Ingham	16,000	15,800	5,800	5,800	Other counties	5,000	4,900	6,600	6,600
Ionia	49,500	49,000	19,500	20,000					
Iosco	7,000	6,900	2,200	2,200	<b>Michigan</b>	<b>1,180,000</b>	<b>1,160,000</b>	<b>425,000</b>	<b>428,000</b>
Iron	1,200	1,200							
Isabella	25,500	25,000	8,000	8,000					
Jackson	15,700	15,400	3,500	3,500					
Kalamazoo	13,000	12,800	6,000	6,000					
Kalkaska	800	700	(D)	(D)					
Kent	29,000	28,500	9,000	9,000					
Keweenaw	(D)	(D)							
Lake	2,100	2,000	(D)	(D)					
Lapeer	15,600	15,400	3,500	3,500					
Leelanau	2,100	2,100	200	200					
Lenawee	35,000	34,500	14,000	14,000					
Livingston	7,500	7,300	2,100	2,100					
Luce	(D)	(D)							
Mackinac	3,000	3,000	900	900					
Macomb	5,000	4,900	700	700					

(D) Withheld to avoid disclosing data for individual operations.

## Useful Agriculture Internet Sites

### State and Federal Agencies

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

### Commodity Groups

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

### Other Related Sites

American Farm Bureau Federation	<a href="http://www.fb.org">www.fb.org</a>
GreenStone Farm Credit Services	<a href="http://www.greenstonefcs.com">www.greenstonefcs.com</a>
Michigan Agritourism Association	<a href="http://www.michiganfarmfun.com">www.michiganfarmfun.com</a>
Michigan Food and Farming Systems-MIFFS	<a href="http://www.mifffs.org">www.mifffs.org</a>
Michigan Market Maker	<a href="http://mi.foodmarketmaker.com">http://mi.foodmarketmaker.com</a>
MSU Agricultural Weather Office	<a href="http://www.agweather.geo.msu.edu">www.agweather.geo.msu.edu</a>

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## INTERNET ACCESS

Reports, data products, and services published by the USDA, NASS, Michigan Field Office, Michigan Department of Agriculture and Rural Development, and National Agricultural Statistics Service of the United States Department of Agriculture are available on the Worldwide Web. There is no charge for connecting to these Internet addresses:

### USDA, NASS, Michigan Field Office

From the NASS home page, [www.nass.usda.gov](http://www.nass.usda.gov), click on the Statistics by State dropdown to access the Michigan Internet page.

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

### National Agricultural Statistics Service (NASS)

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

You can access national releases, 2012 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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## AUTOFAX ACCESS

NASS Fax service is available for some reports from your fax machine. Please call 202-720-2000, using the handset attached to your fax. Respond to the voice prompts.

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## ASSISTANCE

For assistance or questions regarding Michigan agriculture, call 1-800-453-7501. Further information about NASS or its products or services can be obtained by contacting the Agricultural Statistics HOTLINE at 1-800-727-9540, 7:30 a.m. to 4:30 p.m. ET or e-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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# NASS

FACT FINDERS FOR AGRICULTURE  
United States Department of Agriculture

USDA, NASS, Great Lakes Region, Michigan Field Office  
3001 Coolidge Rd., Suite 400  
East Lansing, MI 48823

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