

**Rank in U.S. agriculture by selected commodities, 2019**

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			<i>Thousands</i>	<i>Percent</i>	
<b>1</b>	Beans, dry, black	Cwt	1,934	38.2	Michigan
	Beans, dry, cranberry	Cwt	41	25.5	Michigan
	Cherries, tart	Pounds	170,000	64.9	Michigan
	Hostas 1/	Pots	1,591	18.1	Michigan
	Easter lilies 1/	Pots	1,394	23.1	Michigan
	Begonias 1/	Dollars	15,302	17.9	Michigan
	Impatiens, other 1/	Dollars	13,390	19.3	Michigan
	Geraniums, cuttings 1/	Dollars	21,080	17.6	Michigan
	Petunias 1/	Dollars	31,354	22.1	Michigan
	Asparagus	Cwt	282	37.4	Michigan
	Cucumbers	Cwt	5,940	39.7	Michigan
	Beans dry, navy	Cwt	1,170	38.6	Michigan
	Squash	Cwt	1,720	24.1	Michigan
	Beans, dry, small red	Cwt	233	41.1	Michigan
<b>3</b>	Beans, dry, all	Cwt	3,662	17.6	North Dakota
	Apples	Pounds	946,000	8.6	Washington
	Alfalfa haylage and greenchop	Tons	2,080	11.4	Wisconsin
<b>4</b>	Beans, dry, light red kidney	Cwt	91	9.9	Minnesota
	Blueberries	Pounds	84,900	12.5	Washington
	Sugarbeets	Tons	4,147	14.5	Minnesota
<b>5</b>	Maple syrup	Gallons	195	4.6	Vermont
	Potatoes	Cwt	19,763	4.7	Idaho
	Pumpkins	Cwt	810	6.0	Illinois
	Snap beans	Cwt	1,602	9.7	Wisconsin
<b>6</b>	Bell peppers	Cwt	534	4.4	California
	Milk	Pounds	11,385,000	5.2	California
<b>7</b>	Cabbage	Cwt	1,530	7.0	California
	Eggs	Eggs	4,516,600	4.0	Iowa
<b>8</b>	Honey	Pounds	4,268	2.8	North Dakota
	Corn Silage	Tons	6,290	4.7	Wisconsin
<b>10</b>	Peaches	Tons	4.8	0.7	California
	Oats	Bushels	1,425	2.7	North Dakota
<b>11</b>	Milk goats, January 1, 2020	Head	12	2.7	Wisconsin
	Turkeys, raised	Head	5,400	2.2	Minnesota
<b>12</b>	Wheat, winter	Bushels	34,080	2.6	Kansas
<b>13</b>	Hogs, as of Dec. 1, 2019	Head	1,240	1.6	Iowa
<b>14</b>	Corn for grain	Bushels	236,670	1.7	Iowa
<b>15</b>	Soybeans	Bushels	70,930	2.0	Illinois
<b>17</b>	Hay, alfalfa	Tons	1,375	2.5	Montana
<b>18</b>	Sheep, January 1, 2020	Head	85	1.6	Texas
<b>20</b>	Cash receipts	Dollars	7,412,467	2.0	California
<b>30</b>	Cattle, January 1, 2020	Head	1,150	1.2	Texas

1/ 2018-2019 Not yet available

# Farm Economics

## Number of farms and land in farms by economic sales class, 2015-2019 <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>	
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	14.20	3.35	2.20	3.35	47.60	
2018	24.00	14.40	3.15	2.20	3.25	47.00	
2019	24.50	14.00	3.20	2.15	3.15	47.00	
	<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>
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	1.20	1.70	1.10	1.30	4.50	9.80	206
2018	1.20	1.70	1.20	1.20	4.50	9.80	209
2019	1.25	1.60	1.30	1.30	4.35	9.80	209

<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, 2016-2020

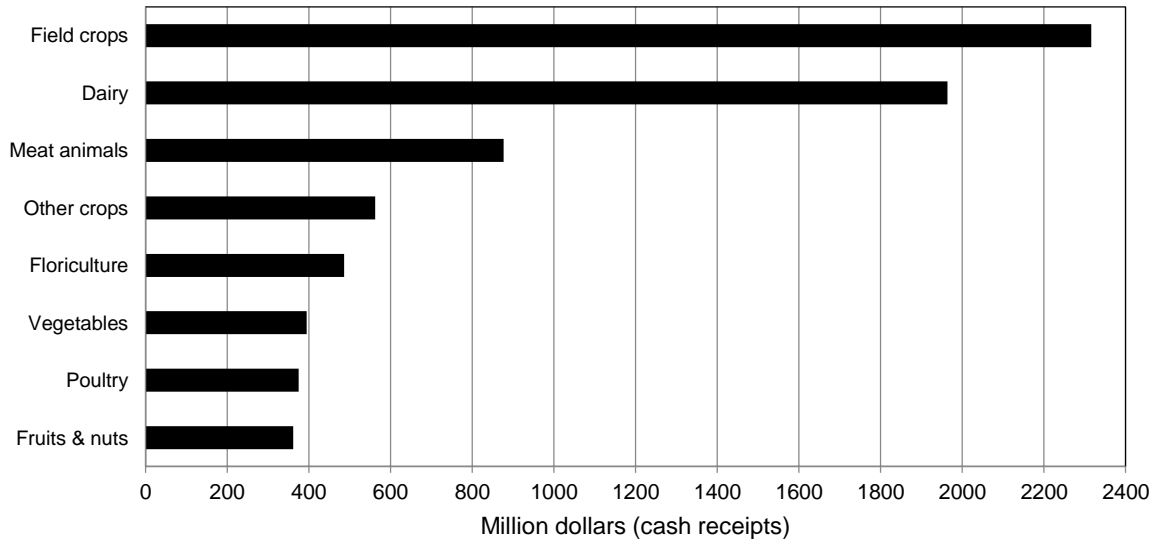
Year	Farm real estate average value per acre	Cropland		Pasture
		Average value per acre	Average cash rent per acre	Average value per acre
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2016	4,900	4,590	127	2,650
2017	4,940	4,580	123	2,620
2018	4,960	4,510	123	2,600
2019	4,960	4,500	127	2,590
2020	4,950	4,480	128	2,600

## Government payments, 2015-2019 <sup>1</sup>

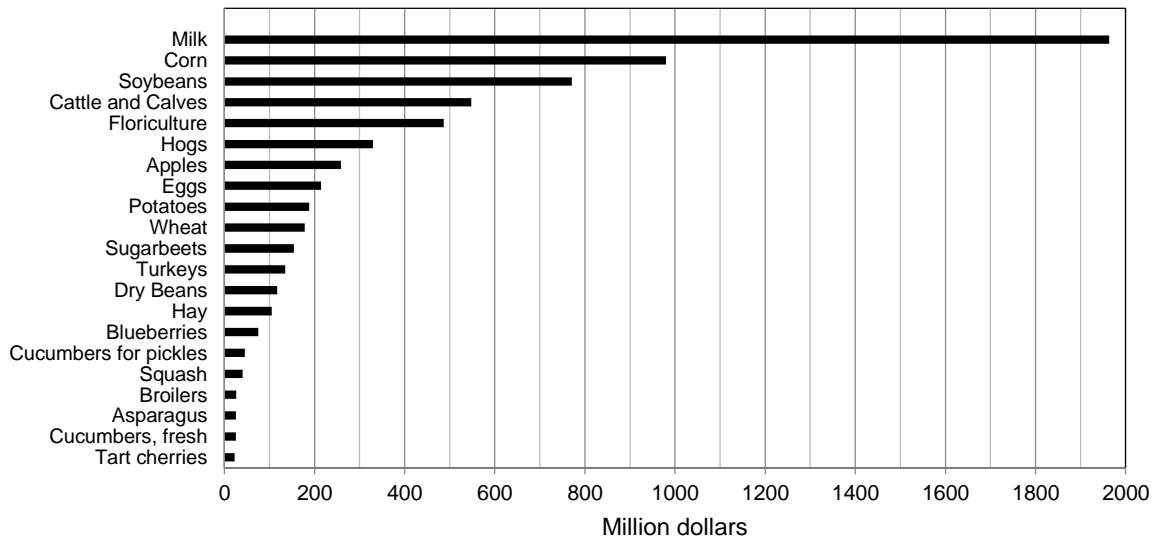
Program	2015	2016	2017	2018	2019
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Market Facilitation program				110,829	278,320
Conservation programs	39,526	34,269	38,564	39,223	44,216
BMAC-Biomass crop assistance	151	81	30	0	0
Direct payments	-154	-230	122	26	-8
Counter-cyclical payments	-2	0	0	0	0
Loan deficiency payments	-5	1	0	0	0
Miscellaneous programs	-1	0	195	147	207
Ad Hoc and emergency programs	2,864	5,016	2,373	1,449	31,303
Milk income loss payments	-15	4	-2	0	0
ACRE	0	0	0	-1	0
ARC-Agricultural Risk Coverage	144,743	152,873	149,528	60,448	13,363
PLC-Price Loss Coverage	0	3,180	9,764	6,740	2,754
Dairy Margin Coverage Program	49	213	0	13,397	14,610
Total	187,155	195,406	200,576	232,258	384,764

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

## Major Michigan Commodity Groups, 2019



## Top 20 Commodities in Cash Receipts, 2019



**Value added to the economy by the Michigan agricultural sector 2015-2019 <sup>1</sup>**

Item <sup>2</sup>	2015	2016	2017	2018	2019
	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>
Value of crop production	4,301.2	4,316.2	4,028.6	4,117.7	3,672.9
Food grains	214.3	198.1	167.7	189.1	186.6
Feed crops	1,335.7	1,156.8	1,071.0	1,062.0	1,086.8
Oil crops	813.9	1,027.5	919.2	834.1	771.0
Fruits and tree nuts	437.0	566.3	479.4	405.9	361.7
Vegetables, potatoes, dry beans	608.9	567.8	599.0	593.1	511.8
All other crops	1,000.6	1,016.5	999.9	1,101.1	1,203.5
Home consumption	6.8	3.5	4.4	2.6	2.3
Value of inventory adjustment <sup>3</sup>	-115.8	-220.2	-211.9	-70.2	-450.9
Value of livestock production	3,470.9	2,971.2	3,231.5	3,114.1	3,293.1
Meat animals	978.3	834.1	948.6	863.0	877.3
Dairy products	1,698.7	1,637.1	1,836.1	1,659.1	1,963.4
Poultry and eggs	685.5	365.2	382.4	504.9	375.0
Miscellaneous livestock	71.0	68.9	75.9	75.0	75.3
Home consumption	8.7	7.5	6.4	8.9	7.8
Value of inventory adjustment <sup>3</sup>	28.9	58.3	-17.8	3.1	-5.7
Farm related income	1,141.9	930.3	891.3	975.4	1,183.1
Forest products sold	22.0	23.0	17.9	11.9	12.2
Machine hire and custom work	191.2	101.3	85.3	188.2	162.3
Other farm income	507.8	383.3	350.7	369.1	575.0
Gross imputed rental value-farm dwellings	420.9	422.7	437.4	406.1	433.7
Value of agricultural sector production	8,914.1	8,217.7	8,151.4	8,207.1	8,149.1
<b>less:</b> Purchased inputs	5,233.9	5,078.6	4,693.5	4,616.5	4,905.2
Farm origin	2,195.1	2,173.1	1,927.1	1,733.2	2,005.6
Feed purchased	1,275.4	1,284.4	1,177.0	965.1	1,280.6
Livestock and poultry purchased	178.4	120.0	164.0	123.7	156.8
Seed purchased	741.3	768.7	586.2	644.3	568.3
Manufactured inputs	1,457.6	1,308.3	1,251.2	1,402.8	1,331.8
Fertilizers and lime	641.6	573.2	512.1	565.6	534.4
Pesticides	332.6	328.0	327.3	349.7	318.3
Petroleum fuel and oils	353.7	285.8	293.3	340.3	320.1
Electricity	129.7	121.3	118.5	147.2	159.0
Other intermediate expenses	1,581.1	1,597.2	1,515.2	1,480.5	1,567.8
Repair and maintenance of capital items	424.6	426.7	467.0	426.3	461.2
Machine hire and custom work	131.7	95.7	106.8	64.7	138.8
Marketing, storage, and transp. expenses	229.7	202.7	229.8	224.7	205.0
Miscellaneous expenses	795.2	872.1	711.7	764.8	762.8
<b>less:</b> Contract labor	83.1	32.2	107.0	73.7	82.6
<b>plus:</b> Net government transactions	-257.8	-187.8	-126.3	-105.9	47.7
Direct Government payments	187.2	195.4	200.6	232.3	384.8
Property taxes and fees	445.0	383.2	326.9	338.2	337.1
Gross value added	3,339.3	2,919.2	3,224.6	3,411.0	3,208.9
<b>less:</b> Capital consumption	979.2	1,022.4	894.0	763.1	713.2
Net value added	2,360.1	1,896.7	2,330.6	2,647.9	2,495.7
<b>less:</b> Payments to stakeholders	1,593.8	1,823.4	1,498.7	1,784.0	1,773.9
Employee compensation (total hired labor)	922.2	1,067.9	672.6	939.4	942.1
Net rent paid to landlords	275.5	336.3	378.1	346.9	333.7
Real estate and nonreal estate interest	396.0	419.2	447.7	497.7	498.1
<b>Net farm income</b>	766.3	73.3	832.1	863.9	721.8

<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 2015-2019 <sup>1</sup>**

Item	2015	2016	2017	2018	2019
	<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>	7,843,662	7,438,342	7,479,166	7,563,792	7,412,467
<b>Total livestock and products</b>	3,433,393	2,905,413	3,242,976	3,102,032	3,290,976
Meat animals	978,264	834,148	948,571	863,000	877,300
Cattle and calves	624,664	529,060	575,344	539,586	547,797
Hogs	353,600	305,088	373,227	323,414	329,503
Dairy (milk)	1,698,678	1,637,142	1,836,144	1,659,115	1,963,777
Poultry and eggs	685,456	365,206	382,407	504,943	374,993
Miscellaneous livestock	70,994	68,917	75,855	74,974	75,305
<b>Total crops</b>	4,410,270	4,532,929	4,236,190	4,185,336	4,121,492
Field crops	2,742,380	2,685,108	2,408,023	2,476,661	2,315,527
Corn	1,195,872	1,042,656	965,582	975,778	979,587
Dry beans	159,408	110,288	109,349	129,147	117,208
Hay	136,951	112,908	103,539	92,533	104,902
Soybeans	813,868	1,027,505	919,174	928,320	770,985
Sugarbeets	216,052	191,444	139,891	165,917	153,865
Wheat	209,518	193,167	161,762	174,219	178,015
Other	10,711	7,140	8,726	10,747	10,965
Vegetables	449,470	457,389	489,675	445,939	394,630
Asparagus	19,754	22,801	26,136	23,275	25,607
Cabbage	16,269	16,012	27,221	9,610	11,569
Carrots	8,464	13,587	11,237	14,456	NA
Celery	18,897	15,966	16,636	19,471	NA
Corn, sweet (fresh)	24,102	21,818	20,930	19,256	NA
Cucumbers, fresh	13,498	27,532	23,890	22,491	25,165
Cucumbers, processing	37,642	41,614	55,849	32,927	45,395
Onions	10,053	NA	NA	NA	NA
Peppers, bell	14,896	16,354	15,318	18,220	19,674
Potatoes	173,478	170,044	179,421	177,342	188,198
Pumpkins	12,080	11,909	8,314	14,947	12,909
Snap beans, fresh	11,490	15,244	10,145	8,548	14,230
Snap beans, processing	16,376	17,019	15,753	12,972	11,381
Squash	19,543	33,570	42,838	37,072	40,502
Tomatoes, fresh	41,808	18,747	22,282	23,513	NA
Tomatoes, processing	11,120	15,172	13,705	11,839	NA
Fruits and nuts	436,971	566,297	479,378	415,224	361,709
Apples	233,288	325,195	272,310	294,420	258,604
Blueberries	98,925	130,350	116,400	70,226	75,258
Grapes	25,734	29,127	24,075	NA	NA
Peaches	5,906	9,650	10,810	12,642	5,313
Strawberries	4,375	NA	NA	NA	NA
Sweet cherries	13,570	18,185	16,090	NA	NA
Tart cherries	53,499	53,790	39,693	37,936	22,534
Other	1,674	NA	NA	NA	NA
All other crops	781,449	824,135	859,114	847,512	1,049,626
Floriculture	409,078	434,967	460,857	486,746	486,746
Miscellaneous crops <sup>2</sup>	372,371	389,168	398,257	360,766	562,880

<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.

NA Not available; an estimate is included in miscellaneous other crops.

### Corn production costs and returns, 2018-2019

Item	United States		Northern Crescent <sup>1</sup>	
	2018	2019	2018	2019
	<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	631.54	668.77	617.93	669.46
Operating costs				
Seed	96.20	93.48	97.53	95.14
Fertilizer <sup>2</sup>	109.05	114.46	118.16	124.97
Chemicals	34.02	33.95	31.60	31.62
Custom operations	22.48	23.07	28.75	30.05
Fuel, lube, and electricity	30.93	30.39	29.77	28.73
Repairs	33.90	35.13	29.34	30.13
Purchased irrigation water	0.27	0.30	0.00	0.00
Interest on operating capital	3.42	3.49	3.50	3.59
Total, operating costs	330.27	334.27	338.65	344.23
Allocated overhead				
Hired labor	4.85	5.25	4.22	4.37
Opportunity cost of unpaid labor	28.14	29.68	36.19	38.38
Capital recovery-machinery & equipment	122.65	128.94	108.68	113.86
Opportunity cost of land (rental rate)	160.63	159.40	121.25	125.33
Taxes and insurance	11.79	12.19	13.61	13.95
General farm overhead	18.69	19.26	27.13	28.21
Total, allocated overhead	346.75	354.72	311.08	324.10
Total, costs listed	677.02	688.99	649.73	668.33
Value of production less total costs listed	-45.48	-20.22	-36.80	1.13
Value of production less operating costs	301.27	334.50	279.28	325.23
Supporting information				
Yield (bushels per planted acre)	184	174	173	167
Price (dollars per bushel at harvest)	3.42	3.83	3.52	3.95
Enterprise size (planted acres) <sup>3</sup>	278	278	142	142
Production practices <sup>3</sup>				
Irrigated (percent)	11	12	2	2
Dryland (percent)	89	88	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, 2018-2019**

Item	United States		Northern Crescent <sup>1</sup>	
	2018	2019	2018	2019
	<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	444.21	391.51	427.28	369.16
Operating costs				
Seed	57.40	56.10	61.55	60.25
Fertilizer <sup>2</sup>	24.07	25.48	33.48	35.31
Chemicals	26.19	26.05	21.23	21.10
Custom operations	10.52	10.80	13.20	13.63
Fuel, lube, and electricity	14.54	14.58	12.02	12.22
Repairs	24.09	24.53	20.73	21.30
Purchased irrigation water	0.06	0.07	0.00	0.00
Interest on operating capital	1.64	1.66	1.70	1.73
Total, operating costs	158.50	159.27	163.91	165.54
Allocated overhead				
Hired labor	3.46	3.51	1.99	2.10
Opportunity cost of unpaid labor	20.57	21.61	21.09	22.24
Capital recovery-machinery & equipment	92.65	96.41	78.70	82.37
Opportunity cost of land (rental rate)	145.39	148.48	118.21	119.93
Taxes and insurance	10.74	11.02	11.22	11.49
General farm overhead	18.89	19.44	24.09	24.76
Total, allocated overhead	291.70	300.47	255.30	262.89
Total, costs listed	450.20	459.74	419.21	428.43
Value of production less total costs listed	-5.99	-68.23	8.07	-59.27
Value of production less operating costs	285.71	232.24	263.37	203.62
Supporting information				
Yield (bushels per planted acre)	51	51	49	44
Price (dollars per bushel at harvest)	8.71	8.71	8.72	8.39
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	2014	2015	2016	2017	2018
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Feed, grains	64.1	58.4	56.8	59.1	63.0
Feed, complete	114.5	110.1	102.6	105.4	107.4
Feed, concentrates	118.0	117.9	100.9	110.2	113.7
Feed, forage	98.3	86.9	90.0	103.0	110.0
Nitrogen	91.1	71.6	66.5	66.5	71.4
Potash & Phosphate	84.6	70.5	64.4	62.9	63.0
Fungicides	101.7	98.7	95.1	95.7	99.5
Herbicides	107.4	109.7	106.4	101.7	101.8
Insecticides	107.2	107.7	103.1	100.9	99.2
Seeds & Plants	124.6	121.4	119.9	118.5	116.0
Cows, milk replacement	140.3	124.7	114.3	95.6	86.3
Feeder cattle	156.4	104.7	106.5	108.1	102.9
Feeder pigs	96.7	90.2	100.9	94.5	107.1
Fuels, diesel	61.2	51.8	57.6	67.4	71.5
Fuels, gasoline	67.2	59.0	64.5	70.9	75.1
Fuels, LP gas	67.2	65.4	82.4	84.8	79.7
Machinery, self propelled	118.1	118.7	120.6	123.9	127.9
Tractors	109.6	111.1	112.6	110.9	110.3
Trucks & Autos	105.5	106.0	106.0	105.5	105.8
Building materials	107.4	107.6	110.4	116.1	118.1
Supplies & Repairs	105.8	106.0	107.9	111.6	114.7
Labor	111.9	115.9	119.1	126.3	133.2
Custom Rates	111.8	111.6	114.3	113.3	118.4
Interest	98.4	103.9	108.8	114.9	115.3
Rent	130.3	123.8	123.8	119.5	116.5
Taxes	109.9	110.7	115.5	117.1	117.9

## Farm Labor

**Hired farm workers: Annual average wage rates, 2015-2019 <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>
2015	12.86	12.11	12.02
2016	13.30	13.17	12.75
2017	13.79	13.02	13.06
2018	14.16	13.64	13.54
2019	15.04	14.88	14.40

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



# Agricultural Exports

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

Commodity	2017	2018	2019
	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Prepared foods	324,918	416,487	351,344
Forest products	189,009	185,189	171,115
Dairy Products	107,255	115,881	154,835
Soybeans	146,249	178,534	137,416
Beef & beef products	102,802	104,167	76,528
Fresh vegetables	141,570	111,411	76,278
Distillers grains	50,173	72,535	75,171
Processed fruit	87,489	86,943	72,491
Pulses	77,655	68,789	67,396
Essential oils	74,883	73,791	66,283
Hides & skins	54,102	48,470	43,496
Pork & pork products	24,673	31,363	40,574
Processed vegetables	41,549	40,870	40,146
Seeds for planting	57,599	51,007	39,589
Soybean meal	23,645	27,651	30,840
Corn	18,587	33,351	25,756
Fresh fruit	18,373	22,543	23,491
Wine & beer	53,423	27,508	23,404
Feeds & fodders	13,653	15,507	16,318
Nursery products & cut flowers	9,945	9,707	10,238
Other	318,789	355,511	373,718
Total	1,936,341	2,077,215	1,916,427

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

## Michigan agricultural exports: Top 10 destinations, 2018-2019 <sup>1</sup>

Country	2018	2019
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	883,056	790,498
Mexico	209,563	229,103
Japan	148,347	127,439
South Korea	148,815	110,072
Thailand	117,151	104,034
China	132,522	95,858
Indonesia	59,930	65,333
Taiwan	41,155	47,016
Netherlands	31,387	40,487
Germany	29,580	23,739
Others	275,709	282,848
Total	2,077,215	1,916,427

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