

Rank in U.S. agriculture by selected commodities, 2018

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			<i>Thousands</i>	<i>Percent</i>	
1	Beans, dry, black	Cwt	2,416	46.5	Michigan
	Beans, dry, cranberry	Cwt	61	24.8	Michigan
	Beans, dry, small red	Cwt	328	46.4	Michigan
	Begonias	Dollars	15,302	17.9	Michigan
	Cherries, tart	Pounds	201,000	67.4	Michigan
	Easter lillies	Pots	1,394	23.1	Michigan
	Geraniums, cuttings	Dollars	21,080	17.6	Michigan
	Hostas	Pots	1,591	18.1	Michigan
	Impatients, other	Dollars	13,390	19.3	Michigan
	Petunias	Dollars	31,354	22.1	Michigan
	Squash	Cwt	1,914	25.9	Michigan
2	Asparagus	Cwt	266	34.0	Washington
	Beans dry, navy	Cwt	1,539	37.7	North Dakota
	Celery	Cwt	1,102	6.2	California
	Cucumbers	Cwt	4,233	27.4	Florida
3	Alfalfa haylage and greenchop	Tons	1,768	9.2	Wisconsin
	Apples	Pounds	1,050,000	10.2	Washington
	Beans, dry, all	Cwt	4,635	12.4	North Dakota
	Beans, dry, light red kidney	Cwt	99	11.0	Minnesota
	Blueberries	Pounds	70,100	12.5	Oregon
4	Carrots	Cwt	1,520	4.6	California
	Sugarbeets	Tons	4,728	12.9	Minnesota
5	All haylage and greenchop	Tons	1,856	6.3	Wisconsin
	Bell peppers	Cwt	480	3.7	California
	Maple syrup	Gallons	195	4.6	Vermont
	Oats	Bushels	3,150	5.6	North Dakota
	Pumpkins	Cwt	1,026	6.8	Illinois
	Snap beans	Cwt	1,365	7.8	Wisconsin
	Tomatoes	Cwt	2,750	1.0	California
6	Milk	Pounds	11,168,000	5.1	California
7	Cabbage	Cwt	1,295	6.6	California
	Corn silage	Tons	5,950	4.9	Wisconsin
	Eggs	Eggs	4,548,100	4.2	Iowa
8	Honey	Pounds	4,048	2.6	North Dakota
	Peaches	Tons	9.1	1.3	California
	Potatoes	Cwt	18,240	4.0	Idaho
9	Goats, milk, January 1, 2019	Head	12	2.8	Wisconsin
11	Turkeys, raised	Head	5,400	2.2	Minnesota
12	Corn for grain	Bushels	296,820	2.0	Iowa
	Wheat, winter	Bushels	35,720	3.0	Kansas
13	Hogs, as of Dec. 1, 2018	Head	1,180	1.6	Iowa
	Soybeans	Bushels	109,440	2.4	Illinois
	Sweet Corn	Cwt	837	1.1	Washington
17	Hay, alfalfa	Tons	1,416	2.7	Idaho
	Sheep, January 1, 2019	Head	86	1.6	Texas
18	Cash receipts	Dollars	7,563,792	2.0	California
29	Cattle, as of Jan. 1, 2019	Head	1,150	1.2	Texas

Number of farms and land in farms by economic sales class, 2014-2018 ¹

Year	Economic sales class					Total	Average size of farm
	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000+		
	<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>	
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	14.20	3.35	2.20	3.35	47.60	
2018	24.00	14.40	3.15	2.20	3.25	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>
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	1.20	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

¹ 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, 2015-2019

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>
2015	4,970	4,620	118	2,720
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

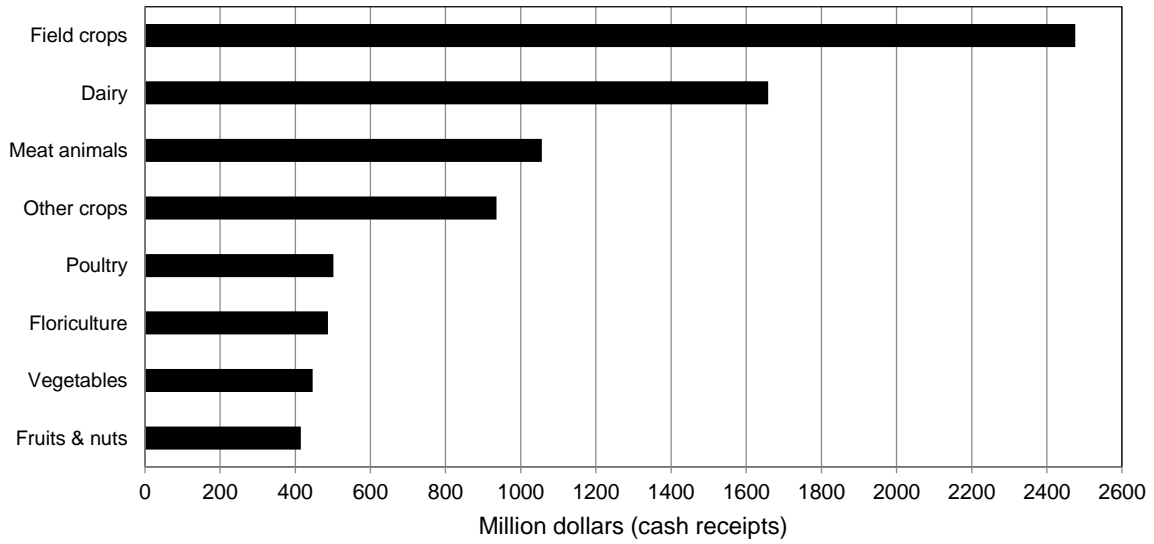
Farm Economics

Government payments, 2014-2018 ¹

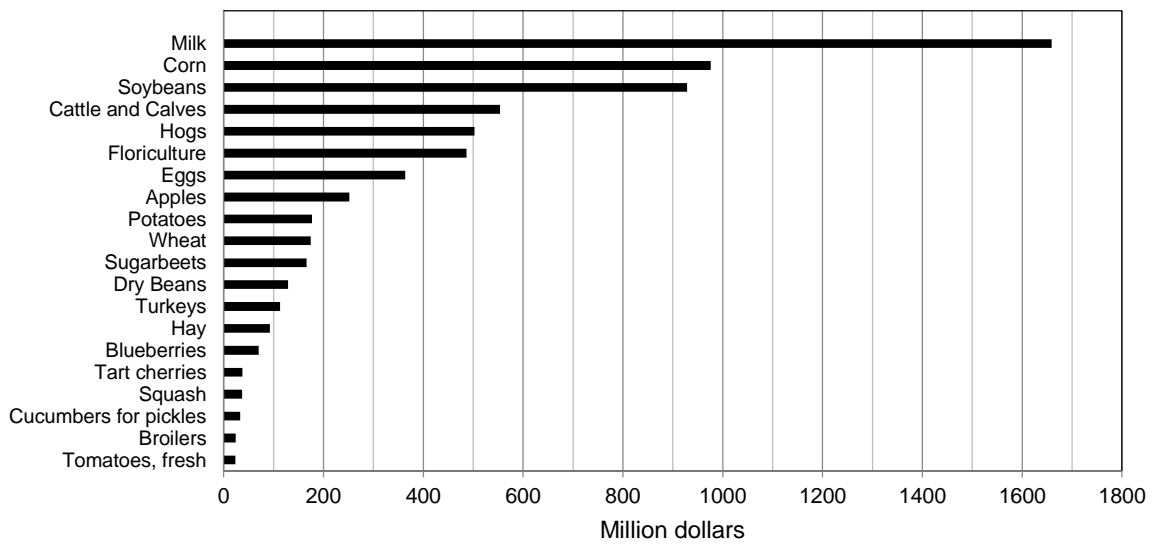
Program	2014	2015	2016	2017	2018
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
Conservation programs	46,053	39,526	34,269	38,564	39,223
BMAC-Biomass crop assistance	43	151	81	30	0
Direct payments	318	-154	-230	122	26
Counter-cyclical payments	0	-2	0	0	0
Loan deficiency payments	0	-5	1	0	0
Miscellaneous programs	0	-1	0	195	110,976
Ad Hoc and emergency programs	14,143	2,864	5,016	2,373	1,449
Milk income loss payments	25	-15	4	-2	0
ACRE	-3	0	0	0	-1
ARC-Agricultural Risk Coverage		144,743	152,873	149,528	60,448
PLC-Price Loss Coverage		0	3,180	9,764	6,740
Dairy Margin Protection Program		49	213	0	13,397
Total	60,578	187,155	195,406	200,576	232,258

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

Major Michigan Commodity Groups, 2018



Top 20 Commodities in Cash Receipts, 2018



Value added to the economy by the Michigan agricultural sector 2014-2018 ¹

Item ²	2014	2015	2016	2017	2018
	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>	<i>Million dollars</i>
Value of crop production	4,475.5	4,301.2	4,316.6	4,016.7	4,173.5
Food grains	216.3	214.3	198.2	168.0	181.9
Feed crops	1,427.9	1,335.7	1,156.8	1,071.5	1,070.5
Oil crops	920.2	813.9	1,027.5	919.2	928.3
Fruits and tree nuts	478.5	437.0	566.3	479.4	415.2
Vegetables, potatoes, dry beans	553.4	608.9	568.1	586.5	575.1
All other crops	1,000.1	1,000.5	1,016.4	999.8	1,101.5
Home consumption	5.8	6.8	3.5	4.5	2.7
Value of inventory adjustment ³	-126.7	-115.7	-220.2	-212.1	-101.6
Value of livestock production	3,970.9	3,469.2	2,968.2	3,226.2	3,292.1
Meat animals	1,076.6	978.3	834.1	948.6	1,056.2
Dairy products	2,309.5	1,698.7	1,637.1	1,836.1	1,658.7
Poultry and eggs	501.8	683.7	362.1	377.1	501.6
Miscellaneous livestock	74.4	71.0	68.9	75.9	74.9
Home consumption	9.0	8.7	7.5	6.4	8.9
Value of inventory adjustment ³	-0.4	28.9	58.3	-17.8	-8.1
Farm related income	966.5	1,141.9	930.3	906.2	974.1
Forest products sold	7.7	22.0	23.0	17.1	11.2
Machine hire and custom work	123.0	191.2	101.3	77.3	188.2
Other farm income	377.2	507.8	383.3	369.8	368.5
Gross imputed rental value-farm dwellings	458.6	420.9	422.7	442.0	406.1
Value of agricultural sector production	9,412.9	8,912.3	8,215.1	8,149.1	8,439.8
less: Purchased inputs	5,628.0	5,233.9	5,078.6	4,707.7	4,616.2
Farm origin	2,239.3	2,195.1	2,173.1	1,927.1	1,732.9
Feed purchased	1,345.3	1,275.4	1,284.4	1,177.0	965.1
Livestock and poultry purchased	150.8	178.4	120.0	164.0	123.4
Seed purchased	743.2	741.3	768.7	586.2	644.3
Manufactured inputs	1,674.1	1,457.6	1,308.3	1,251.2	1,402.8
Fertilizers and lime	731.2	641.6	573.2	512.1	565.6
Pesticides	338.1	332.6	328.0	327.3	349.7
Petroleum fuel and oils	465.4	353.7	285.8	293.3	340.3
Electricity	139.4	129.7	121.3	118.5	147.2
Other intermediate expenses	1,714.6	1,581.1	1,597.2	1,529.4	1,480.5
Repair and maintenance of capital items	526.6	424.6	426.7	467.0	426.3
Machine hire and custom work	127.6	131.7	95.7	106.8	65.0
Marketing, storage, and transp. expenses	248.9	229.7	202.7	229.8	224.7
Miscellaneous expenses	811.5	795.2	872.1	725.9	764.8
Contract labor	51.0	83.1	32.2	107.0	73.7
plus: Net government transactions	-343.7	-257.8	-187.8	-126.3	-105.9
Direct Government payments	60.6	187.2	195.4	200.6	232.3
Property taxes and fees	404.2	445.0	383.2	326.9	338.2
Gross value added	3,390.3	3,337.5	2,916.5	3,208.0	3,644.0
less: Capital consumption	1,117.6	982.1	1,028.6	874.9	790.1
Net value added	2,272.7	2,355.4	1,887.9	2,333.2	2,853.9
less: Payments to stakeholders	1,617.6	1,593.7	1,823.4	1,498.7	1,782.2
Employee compensation (total hired labor)	949.7	922.2	1,067.9	672.6	939.4
Net rent paid to landlords	287.7	275.5	336.2	375.5	344.2
Real estate and nonreal estate interest	380.2	396.0	419.2	450.6	498.7
Net farm income	655.1	761.7	64.6	834.5	1,071.7

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

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

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

Cash receipts by commodity groups and selected commodities 2014-2018 ¹

Item	2014	2015	2016	2017	2018
	<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>
Total cash receipts	8,558,800	7,841,828	7,435,674	7,461,975	7,563,792
Total livestock and products	3,962,331	3,431,648	2,902,354	3,237,646	3,291,326
Meat animals	1,076,623	978,264	834,148	948,571	1,056,221
Cattle and calves	679,256	624,664	529,060	575,344	553,716
Hogs	397,367	353,600	305,088	373,227	502,505
Dairy (milk)	2,309,503	1,698,678	1,637,142	1,836,144	1,658,668
Poultry and eggs	501,801	683,712	362,147	377,077	501,586
Miscellaneous livestock	74,404	70,994	68,917	75,854	74,851
Total crops	4,596,469	4,410,180	4,533,320	4,224,329	4,272,466
Field crops	2,928,675	2,739,313	2,684,256	2,407,922	2,475,760
Corn	1,294,288	1,195,872	1,042,656	965,582	975,778
Dry beans	149,044	159,408	110,288	109,349	129,147
Hay	129,955	136,951	112,908	104,057	92,533
Soybeans	920,211	813,868	1,027,505	919,174	928,320
Sugarbeets	215,155	216,052	191,444	139,891	165,917
Wheat	212,305	209,518	193,167	161,762	174,219
Other	7,717	7,644	6,288	8,107	9,846
Vegetables	404,395	449,480	457,844	477,167	445,939
Asparagus	20,505	19,754	22,801	26,136	23,275
Cabbage, fresh	13,392	16,269	14,381	11,965	9,610
Celery	18,853	18,897	15,966	16,636	19,471
Corn, sweet (fresh)	20,452	24,102	21,818	20,930	19,256
Cucumbers, fresh	13,872	13,498	27,532	23,890	22,491
Cucumbers, processing	35,099	37,642	41,614	55,849	32,927
Onions	11,094	10,053	NA	NA	NA
Peppers, bell	13,468	14,896	16,354	15,318	18,220
Potatoes	176,613	173,478	170,044	179,421	177,342
Pumpkins	11,398	12,080	11,909	8,314	14,947
Snap beans, fresh	8,172	11,490	15,244	10,145	8,548
Snap beans, processing	2,513	16,376	17,019	15,753	12,972
Squash	18,032	19,543	33,570	42,838	37,072
Tomatoes, fresh	16,636	41,808	18,747	22,282	23,513
Tomatoes, processing	15,116	11,120	15,172	13,705	11,839
Other	9,180	8,474	15,673	13,985	14,456
Fruits and nuts	478,467	436,971	566,297	479,378	415,224
Apples	221,115	233,288	325,195	272,310	294,420
Blueberries	123,840	98,925	130,350	116,400	70,226
Grapes	19,954	25,734	29,127	24,075	NA
Peaches	7,758	5,906	9,650	10,810	12,642
Strawberries	7,258	4,375	NA	NA	NA
Sweet cherries	27,708	13,570	18,185	16,090	NA
Tart cherries	68,827	53,499	53,790	39,693	37,936
Other	2,007	1,674	NA	NA	NA
All other crops	784,932	784,416	824,923	859,862	935,543
Floriculture	413,939	409,078	434,967	460,857	486,746
Miscellaneous crops ²	370,993	375,338	389,956	399,005	448,797

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

² 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, 2017-2018

Item	United States		Northern Crescent ¹	
	2017	2018	2017	2018
	<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	603.28	631.54	604.63	617.93
Operating costs				
Seed	97.07	96.2	98.45	97.53
Fertilizer ²	108.78	113.74	118.02	123.24
Chemicals	38.05	34.55	35.51	32.09
Custom operations	22.05	22.48	28.31	28.75
Fuel, lube, and electricity	27.21	29.33	26.21	28.23
Repairs	32.75	33.9	28.35	29.34
Purchased irrigation water	0.26	0.27	0	0
Interest on operating capital	1.71	3.45	1.76	3.54
Total, operating costs	327.88	333.92	336.61	342.72
Allocated overhead				
Hired labor	4.58	4.85	3.92	4.22
Opportunity cost of unpaid labor	26.4	28.14	34.08	36.19
Capital recovery-machinery & equipment	120.3	121.62	106.64	107.77
Opportunity cost of land (rental rate)	158.73	160.63	121.12	121.25
Taxes and insurance	11.68	11.79	13.53	13.61
General farm overhead	17.99	18.69	26.33	27.13
Total, allocated overhead	339.68	345.72	305.62	310.17
Total, costs listed	667.56	679.64	642.23	652.89
Value of production less total costs listed	-64.28	-48.1	-37.6	-34.96
Value of production less operating costs	275.4	297.62	268.02	275.21
Supporting information				
Yield (bushels per planted acre)	185	184	177	173
Price (dollars per bushel at harvest)	3.25	3.42	3.37	3.52
Enterprise size (planted acres) ³	278	278	142	142
Production practices ³				
Irrigated (percent)	11	11	2	2
Dryland (percent)	89	89	98	98

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

² Includes soil conditioners and manure.

³ Developed from survey base year, 2016.

Soybean production costs and returns, 2017-2018

Item	United States		Northern Crescent ¹	
	2017	2018	2017	2018
	<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	454.72	444.21	416.25	427.28
Operating costs				
Seed	58.07	57.40	62.28	61.55
Fertilizer ²	25.06	24.07	34.93	33.49
Chemicals	26.83	26.59	21.75	21.56
Custom operations	10.32	10.51	12.94	13.18
Fuel, lube, and electricity	13.57	14.54	11.19	12.02
Repairs	23.34	24.09	20.04	20.73
Purchased irrigation water	0.06	0.06	0.00	0.00
Interest on operating capital	0.83	1.64	0.86	1.70
Total, operating costs	158.08	158.90	163.99	164.23
Allocated overhead				
Hired labor	3.26	3.46	1.88	1.99
Opportunity cost of unpaid labor	19.40	20.57	19.89	21.09
Capital recovery-machinery & equipment	90.99	91.88	77.19	78.04
Opportunity cost of land (rental rate)	142.86	145.39	116.50	118.21
Taxes and insurance	10.66	10.74	11.14	11.22
General farm overhead	18.25	18.89	23.29	24.09
Total, allocated overhead	285.42	290.93	249.89	254.64
Total, costs listed	443.50	449.83	413.88	418.87
Value of production less total costs listed	11.22	-5.62	2.37	8.41
Value of production less operating costs	296.64	285.31	252.26	263.05
Supporting information				
Yield (bushels per planted acre)	49.00	51.00	45.00	49.00
Price (dollars per bushel at harvest)	9.28	8.71	9.25	8.72
Enterprise size (planted acres) ³	273.00	273.00	136.00	136.00
Production practices ³				
Irrigated (percent)	10	10	3	3
Dryland (percent)	90	90	97	97

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

² Includes soil conditioners and manure.

³ 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	70.7	64.1	58.4	56.8	59.1
Feed, complete	121.5	114.5	110.1	102.6	105.4
Feed, concentrates	135.5	118	117.9	100.9	110.2
Feed, forage	113.5	98.3	86.9	90	102.3
Nitrogen	102.2	91.1	71.6	66.5	66.5
Potash & Phosphate	94.5	84.6	70.5	64.4	62.9
Fungicides	104.5	101.7	98.7	95.1	95.7
Herbicides	109.7	107.4	109.7	106.4	101.7
Insecticides	112.1	107.2	107.7	103.1	100.9
Seeds & Plants	113.5	124.6	121.4	119.9	118.5
Cows, milk replacement	129.2	140.3	124.7	114.3	95.6
Feeder cattle	157.2	156.4	104.7	106.5	108.1
Feeder pigs	181.6	96.7	90.2	100.9	94.5
Fuels, diesel	92.1	61.2	51.8	57.6	67.4
Fuels, gasoline	104	67.2	59	64.5	70.9
Fuels, LP gas	112.1	67.2	65.4	82.4	84.8
Machinery, self propelled	114.4	118.1	118.7	120.6	123.9
Tractors	108.2	109.6	111.1	112.6	110.9
Trucks & Autos	104.4	105.5	106	106	105.5
Building materials	106.9	107.4	107.6	110.4	116.1
Supplies & Repairs	105.7	105.8	106	107.9	111.6
Labor	108	111.9	115.9	119.1	126.3
Custom Rates	109.3	111.8	111.6	114.3	113.3
Interest	93.1	98.4	103.9	111.9	117.6
Rent	114.2	130.3	123.8	123.8	119.5
Taxes	116.3	109.9	114.7	116.3	117.1

Farm Labor

Hired farm workers: Annual average wage rates, 2014-2018 ¹

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>
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
2018	14.16	13.64	13.54

¹ Lake States region (Michigan, Minnesota, and Wisconsin).

Agricultural Exports

Michigan agricultural exports by commodity and year ¹

Commodity	2016	2017	2018
	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Prepared foods	319,390	321,279	411,305
Forest products	173,638	188,728	182,899
Soybeans	112,278	147,827	178,003
Fresh vegetables	154,454	141,586	111,384
Dairy products	87,654	108,939	120,135
Beef & beef products	146,382	101,697	104,095
Processed fruit	81,158	86,914	87,105
Pulses	81,748	77,655	68,789
Seeds for planting	63,001	57,555	51,007
Hides & skins	60,807	54,262	48,470
Wine & beer	44,630	53,352	27,398
Distillers grains	43,748	50,176	72,533
Processed vegetables	37,642	41,542	41,135
Pork & pork products	21,195	24,628	31,281
Soybean meal	28,077	23,705	27,591
Corn	16,773	18,587	33,354
Fresh fruit	18,824	18,373	22,535
Feeds & fodders	23,601	14,002	15,456
Sugars & sweeteners	25,688	13,277	9,148
Nursery products & cut flowers	9,434	9,932	9,707
Other	417,953	380,499	420,784
Total	1,968,075	1,934,515	2,074,114

¹ Source: U.S. Department of Agriculture, Foreign Agricultural Service

Michigan agricultural exports: Top 10 destinations, 2017-2018 ¹

Country	2017	2018
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	923,332	874,628
Mexico	166,250	210,711
China	77,554	150,267
Japan	117,854	149,114
Thailand	153,508	134,331
South Korea	93,447	117,405
Indonesia	46,980	59,304
Taiwan	38,296	41,309
Germany	30,931	31,386
Netherlands	31,833	29,669
Others	254,530	275,990
Total	1,934,515	2,074,114

¹ Source: U.S. Department of Agriculture, Foreign Agricultural Service