

Rank in U.S. agriculture by selected commodities, 2020					
Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
1	Beans, dry, black	Cwt	3,035	45.3	Michigan
	Beans, dry, cranberry	Cwt	44	34.1	Michigan
	Cherries, tart	Pounds	69,300	49.7	Michigan
	Geraniums, cuttings	Dollars	23,238	20.2	Michigan
	Begonias	Dollars	21,277	23.1	Michigan
	Impatiens, other	Dollars	15,040	19.6	Michigan
	New Guinea Impatiens	Dollars	7,001	19.2	Michigan
	Petunias	Dollars	36,602	22.9	Michigan
	Asparagus	Cwt	266	40.0	Michigan
	Easter lilies	Pots	950	20.0	Michigan
	Spring flowering bulbs	Pots	7,573	40.0	Michigan
	Cucumbers	Cwt	4,511	35.4	Michigan
	Beans dry, navy	Cwt	2,063	45.8	Michigan
	Squash	Cwt	1,738	25.1	Michigan
	Beans, dry, small red	Cwt	489	50.1	Michigan
2	Beans, dry, all	Cwt	6,033	18.3	North Dakota
	Marigolds	Dollars	7,250	14.3	California
	Hostas	Pots	1,333	14.5	New Jersey
	Hardy Chrysanthemums	Pots	7,495	15.1	North Carolina
3	Snap beans	Cwt	1,700	11.5	Wisconsin
	Apples	Pounds	927,000	9.0	Washington
	Alfalfa haylage and greenchop	Tons	2,075	11.1	Wisconsin
4	Beans, dry, light red kidney	Cwt	147	11.2	Minnesota
	Pansies/Violas	Dollars	9,168	9.1	Texas
	Sugarbeets	Tons	4,358	13.0	Minnesota
5	Blueberries	Pounds	73,800	11.4	Washington
6	Maple syrup	Gallons	170	4.1	Vermont
	Cabbage	Cwt	1,520	6.4	California
	Pumpkins	Cwt	864	6.3	Illinois
	Bell peppers	Cwt	437	3.7	California
	Milk	Pounds	11,683,000	5.2	California
7	Eggs	Eggs	4,331,000	3.9	Iowa
	Peaches	Tons	6.0	1.0	California
	Potatoes	Cwt	17,860	4.3	Idaho
8	Honey	Pounds	4,465	3.0	North Dakota
	Corn Silage	Tons	6,125	4.4	Wisconsin
10	Milk goats, January 1, 2021	Head	13	3.0	Wisconsin
11	Corn for grain	Bushels	306,460	2.2	Iowa
	Oats	Bushels	150	2.5	North Dakota
	Turkeys, raised	Head	5,400	2.4	Minnesota
13	Wheat, winter	Bushels	33,750	2.9	Kansas
	Hogs, Dec. 1, 2020	Head	1,300	1.7	Iowa
	Soybeans	Bushels	102,930	2.5	Illinois
16	Sheep, January 1, 2021	Head	87	1.7	Texas
17	Hay, alfalfa	Tons	1,540	2.9	Idaho
18	Cash receipts	Dollars	7,566,763	2.1	California
27	Cattle, January 1, 2021	Head	1,140	1.2	Texas

# Farm Economics

## Number of farms and land in farms by economic sales class, 2016-2020 <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>						
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	
2020	24.20	14.00	3.10	2.10	3.10	46.50	
	<i>Million acres</i>	<i>Acres</i>					
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
2020	1.20	1.60	1.30	1.30	4.40	9.80	211

<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, 2017-2021

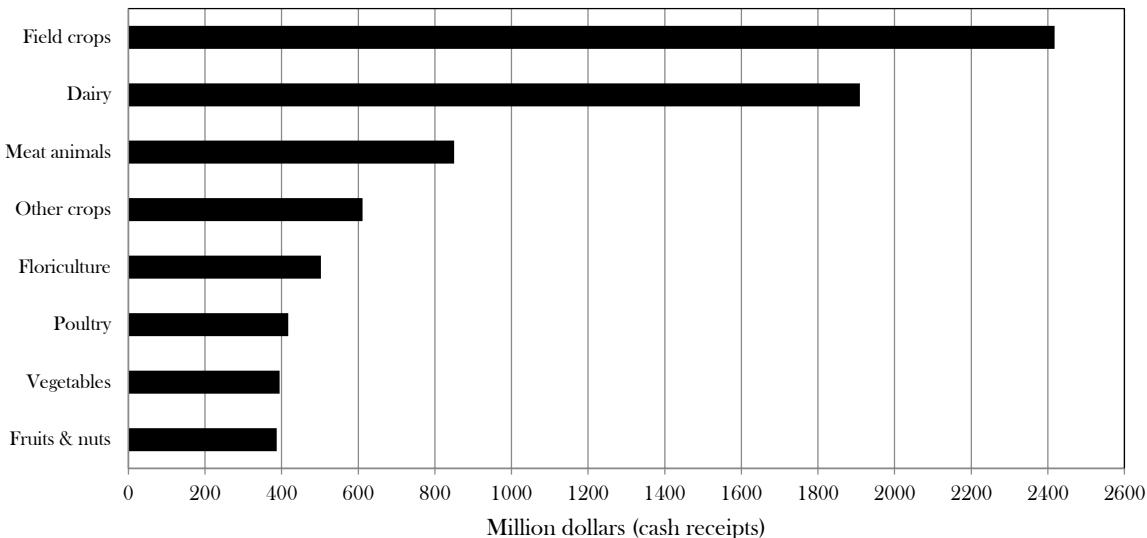
Year	Farm real estate average value per acre	Cropland		Pasture
		Average value per acre	Average cash rent per acre	
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2017	4,940	4,580	123	2,620
2018	4,960	4,510	123	2,600
2019	4,960	4,500	127	2,590
2020	4,950	4,480	128	2,600
2021	5,300	4,700	138	2,740

## Government payments, 2016-2020 <sup>1</sup>

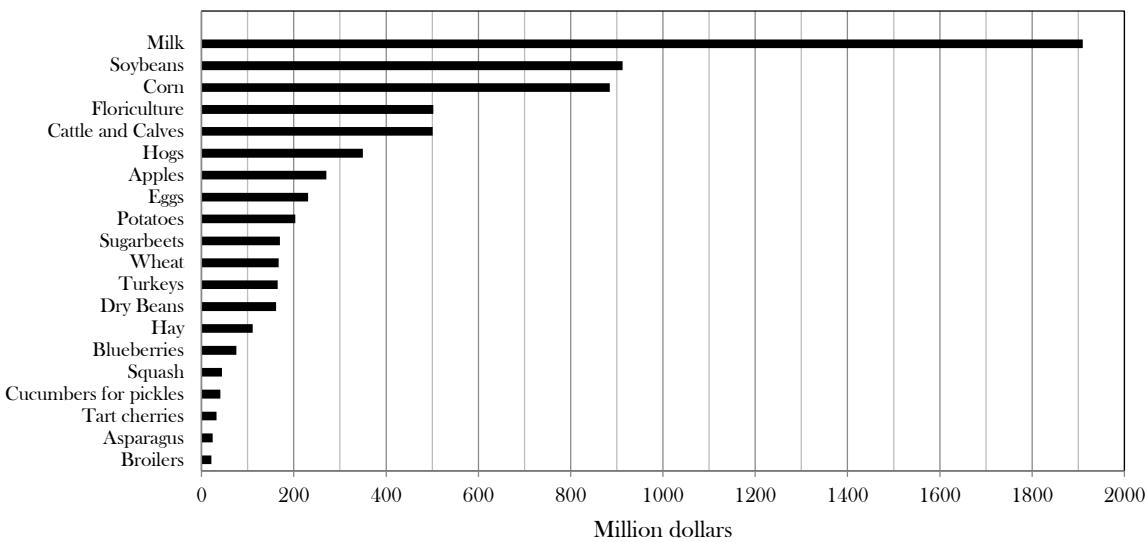
Program	2016	2017	2018	2019	2020
	<i>1,000 dollars</i>				
Market Facilitation program					
Conservation programs	34,269	38,564	39,223	44,216	39,606
BMAC-Biomass crop assistance	81	30	0	0	0
Direct payments	-230	122	26	-8	-2
Loan deficiency payments	1	0	0	0	29
Miscellaneous programs	0	195	147	207	125
Ad Hoc and emergency programs	5,016	2,373	1,449	31,303	748,128
Milk income loss payments	4	-2	0	0	0
ACRE	0	0	-1	0	0
ARC-Agricultural Risk Coverage	152,873	149,528	60,448	13,363	43,412
PLC-Price Loss Coverage	3,180	9,764	6,740	2,754	43,937
Dairy Margin Coverage Program	213	0	13,397	14,610	7,343
Total	195,406	200,576	232,258	384,764	950,960

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

## Major Michigan Commodity Groups, 2020



## Top 20 Commodities in Cash Receipts, 2020



## Value added to the economy by the Michigan agricultural sector 2016-2020 <sup>1</sup>

Item <sup>2</sup>	2016	2017	2018	2019	2020
	<i>Million dollars</i>				
Value of crop production	4,317.8	4,028.6	4,123.2	3,685.7	4,519.8
Food grains	198.1	167.7	189.1	190.6	175.3
Feed crops	1,156.8	1,071.0	1,062.0	1,076.5	998.5
Oil crops	1,027.5	919.2	834.1	723.1	912.2
Fruits and tree nuts	566.3	479.4	405.9	392.8	387.2
Vegetables, potatoes, dry beans	567.8	599.0	593.1	511.8	556.1
All other crops	1,018.0	999.9	1,101.1	1,203.5	1,203.5
Home consumption	3.5	4.4	2.6	2.3	2.7
Value of inventory adjustment <sup>3</sup>	-220.2	-211.9	-70.2	-412.9	203.5
Value of livestock production	2,971.2	3,231.5	3,114.1	3,294.7	3,265.6
Meat animals	834.1	948.6	863.0	893.5	850.6
Dairy products	1,637.1	1,836.1	1,659.1	1,963.4	1,909.8
Poultry and eggs	365.2	382.4	504.9	359.4	417.2
Miscellaneous livestock	68.9	75.9	75.0	76.2	75.6
Home consumption	7.5	6.4	8.9	7.8	17.1
Value of inventory adjustment <sup>3</sup>	58.3	-17.8	3.1	-5.6	-4.6
Farm related income	930.3	891.3	975.4	1,183.1	1,086.1
Forest products sold	23.0	17.9	11.9	12.2	10.7
Machine hire and custom work	101.3	85.3	188.2	162.3	100.3
Other farm income	383.3	350.7	369.1	575.0	551.5
Gross imputed rental value-farm dwellings	422.7	437.4	406.1	433.7	423.5
Value of agricultural sector production	8,219.2	8,151.4	8,212.6	8,163.5	8,871.5
<b>less: Purchased inputs</b>	<b>5,078.6</b>	<b>4,693.5</b>	<b>4,616.5</b>	<b>4,905.2</b>	<b>4,855.5</b>
Farm origin	2,173.1	1,927.1	1,733.2	2,005.6	2,063.0
Feed purchased	1,284.4	1,177.0	965.1	1,280.6	1,228.8
Livestock and poultry purchased	120.0	164.0	123.8	156.8	167.5
Seed purchased	768.7	586.2	644.3	568.3	666.7
Manufactured inputs	1,308.3	1,251.2	1,402.8	1,331.8	1,246.5
Fertilizers and lime	573.2	512.1	565.6	534.4	525.5
Pesticides	328.0	327.3	349.7	318.3	313.8
Petroleum fuel and oils	285.8	293.3	340.3	320.1	283.2
Electricity	121.3	118.5	147.2	159.0	124.0
Other intermediate expenses	1,597.2	1,515.2	1,480.5	1,567.8	1,546.0
Repair and maintenance of capital items	426.7	467.0	426.3	461.2	461.2
Machine hire and custom work	95.7	106.8	64.7	138.8	132.2
Marketing, storage, and transp. expenses	202.7	229.8	224.7	205.0	189.3
Miscellaneous expenses	872.1	711.7	764.8	762.8	696.9
<b>less: Contract labor</b>	<b>32.2</b>	<b>107.0</b>	<b>73.7</b>	<b>82.6</b>	<b>89.4</b>
<b>plus: Net government transactions</b>	<b>-187.8</b>	<b>-126.3</b>	<b>-105.9</b>	<b>47.7</b>	<b>633.0</b>
Direct Government payments	195.4	200.6	232.3	384.8	951.0
Property taxes and fees	383.2	326.9	338.2	337.1	317.9
Gross value added	2,920.7	3,224.6	3,416.5	3,223.3	4,559.6
<b>less: Capital consumption</b>	<b>1,022.4</b>	<b>894.0</b>	<b>763.0</b>	<b>713.2</b>	<b>713.7</b>
Net value added	1,898.2	2,330.6	2,653.5	2,510.1	3,846.0
<b>less: Payments to stakeholders</b>	<b>1,823.4</b>	<b>1,498.7</b>	<b>1,784.0</b>	<b>1,774.3</b>	<b>1,733.9</b>
Employee compensation (total hired labor)	1,067.9	672.6	939.4	942.1	819.2
Net rent paid to landlords	336.3	378.1	346.9	333.5	458.1
Real estate and nonreal estate interest	419.2	447.7	497.7	498.1	456.6
<b>Net farm income</b>	<b>74.8</b>	<b>832.1</b>	<b>869.5</b>	<b>735.7</b>	<b>2,112.1</b>

<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 2016-2020 <sup>1</sup>**

Item	2016	2017	2018	2019	2020
	1,000 dollars				
<b>Total cash receipts</b>	7,439,865	7,479,166	7,292,898	7,388,829	7,566,763
<b>Total livestock and products</b>	2,905,413	3,242,976	3,102,032	3,292,564	3,253,174
Cattle and calves	529,060	575,344	539,586	533,480	500,656
Hogs	305,088	373,227	323,414	360,052	349,944
Dairy (milk)	1,637,142	1,836,144	1,659,115	1,963,377	1,909,780
Eggs	163,234	220,431	364,078	196,213	230,751
Turkeys	178,862	133,102	111,119	137,258	164,800
Other	92,027	104,728	104,720	102,184	97,243
<b>Total crops</b>	4,534,452	4,236,190	4,190,866	4,096,265	4,313,589
Field crops	2,684,125	2,407,151	2,365,797	2,256,254	2,417,616
Corn	1,042,656	965,582	966,945	971,963	884,672
Dry beans	110,288	109,349	138,208	116,861	161,459
Hay	112,908	103,539	92,689	102,325	110,703
Soybeans	1,027,505	919,174	834,059	723,088	912,252
Sugarbeets	191,444	139,891	142,414	149,165	170,123
Wheat	193,167	161,762	181,747	182,586	167,013
Other	6,157	7,854	9,735	10,266	11,394
Vegetables	457,479	489,675	454,916	394,960	394,684
Asparagus	22,801	26,136	23,275	25,875	23,856
Cabbage	16,102	27,221	9,610	11,569	11,066
Carrots	13,587	11,237	14,456	NA	NA
Celery	15,966	16,636	19,471	NA	NA
Corn, sweet (fresh)	21,818	20,930	19,256	NA	NA
Cucumbers, fresh	27,532	23,890	22,491	25,165	11,007
Cucumbers, processing	41,614	55,849	32,927	45,395	40,782
Peppers, bell	16,354	15,318	18,220	19,674	14,345
Potatoes	170,044	179,421	186,319	184,937	203,462
Pumpkins	11,909	8,314	14,947	12,909	14,440
Snap beans, fresh	15,244	10,145	8,548	14,230	19,133
Snap beans, processing	17,019	15,753	12,972	11,381	12,137
Squash	33,570	42,838	37,072	43,825	44,456
Tomatoes, fresh	18,747	22,282	23,513	NA	NA
Tomatoes, processing	15,172	13,705	11,839	NA	NA
Fruits and nuts	566,297	479,378	405,908	392,835	387,228
Apples	325,195	272,310	285,104	289,730	270,238
Blueberries	130,350	116,400	70,226	75,258	75,356
Grapes	29,127	24,075	NA	NA	NA
Peaches	9,650	10,810	12,642	5,313	8,922
Sweet cherries	18,185	16,090	NA	NA	NA
Tart cherries	53,790	39,693	37,936	22,534	32,712
All other crops	826,551	859,986	964,245	1,052,216	1,114,061
Floriculture	434,967	460,857	486,746	439,500	502,558
Miscellaneous crops <sup>2</sup>	391,584	399,129	477,499	612,716	611,503

<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, 2019-2020**

Item	United States		Northern Crescent <sup>1</sup>	
	2019	2020	2019	2020
	<i>Dollars per planted acre</i>			
Gross value of production	664.94	644.72	667.17	637.45
Operating costs				
Seed	93.48	91.83	95.14	93.08
Fertilizer <sup>2</sup>	115.86	119.06	126.50	128.48
Chemicals	34.01	32.75	31.67	30.27
Custom operations	22.74	22.95	29.62	29.33
Fuel, lube, and electricity	32.41	31.43	30.64	29.75
Repairs	35.13	35.55	30.13	30.62
Purchased irrigation water	0.29	0.28	0.00	0.00
Interest on operating capital	3.46	0.70	3.56	0.72
Total, operating costs	337.38	334.55	347.26	342.25
Allocated overhead				
Hired labor	5.25	5.21	4.37	4.48
Opportunity cost of unpaid labor	29.68	30.34	38.38	38.69
Capital recovery-machinery & equipment	127.40	126.85	112.50	112.24
Opportunity cost of land (rental rate)	159.40	161.78	125.33	126.73
Taxes and insurance	11.98	12.03	13.70	13.88
General farm overhead	19.26	19.62	28.21	28.37
Total, allocated overhead	352.97	355.83	322.49	324.39
Total, costs listed	690.35	690.38	669.75	666.64
Value of production less total costs listed	-25.41	-45.66	-2.58	-29.19
Value of production less operating costs	327.56	310.17	319.91	295.20
Supporting information				
Yield (bushels per planted acre)	173	178	166	167
Price (dollars per bushel at harvest)	3.83	3.61	3.96	3.64
Enterprise size (planted acres) <sup>3</sup>	278	278	142	142
Production practices <sup>3</sup>				
Irrigated (percent)	12	12	2	2
Dryland (percent)	88	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, 2019-2020

Item	United States		Northern Crescent <sup>1</sup>	
	2019	2020	2019	2020
Gross value of production	<i>Dollars per planted acre</i>			
	429.34	515.40	399.94	506.23
Operating costs				
Seed	60.92	59.51	62.96	61.67
Fertilizer <sup>2</sup>	31.27	31.92	37.34	38.45
Chemicals	37.38	35.77	30.37	28.84
Custom operations	12.74	12.67	16.27	16.23
Fuel, lube, and electricity	16.00	15.65	15.67	15.30
Repairs	28.69	29.20	25.45	25.92
Purchased irrigation water	0.01	0.01	0.00	0.00
Interest on operating capital	1.94	0.39	1.95	0.39
Total, operating costs	188.95	185.12	190.01	186.80
Allocated overhead				
Hired labor	4.84	4.96	1.95	1.99
Opportunity cost of unpaid labor	17.14	17.43	20.85	21.17
Capital recovery-machinery & equipment	110.68	110.56	97.12	96.97
Opportunity cost of land (rental rate)	151.81	151.45	133.35	133.87
Taxes and insurance	11.98	12.17	13.08	13.27
General farm overhead	18.33	18.69	26.44	27.09
Total, allocated overhead	314.78	315.26	292.79	294.36
Total, costs listed	503.73	500.38	482.80	481.16
Value of production less total costs listed	-74.39	15.02	-82.86	25.07
Value of production less operating costs	240.39	330.28	209.93	319.43
Supporting information				
Yield (bushels per planted acre)	50	53	46	52
Price (dollars per bushel at harvest)	8.61	9.67	8.64	9.69
Enterprise size (planted acres) <sup>3</sup>	314	314	157	157
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, 2018.

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

Commodity	2016	2017	2018	2019	2020
	Percent	Percent	Percent	Percent	Percent
Feed, grains	58.4	56.8	59.1	63.0	60.6
Feed, complete	110.1	102.6	105.4	107.4	106.2
Feed, concentrates	117.9	100.9	110.2	113.7	114.5
Feed, forage	86.9	90.0	103.0	109.9	102.6
Nitrogen	71.6	66.5	66.5	71.4	69.2
Potash & Phosphate	70.5	64.4	62.9	63.0	62.5
Fungicides	98.7	95.1	95.7	99.5	98.8
Herbicides	109.7	106.4	101.7	101.8	99.4
Insecticides	107.7	103.1	100.9	99.2	93.4
Seeds & Plants	121.4	119.9	118.5	116.0	113.4
Cows, milk replacement	124.7	114.3	95.6	84.9	91.6
Feeder cattle	104.7	106.5	108.1	102.9	100.4
Feeder pigs	90.2	100.9	94.5	107.1	65.8
Fuels, diesel	51.8	57.6	67.4	71.5	56.4
Fuels, gasoline	59.0	64.5	70.9	75.1	60.6
Fuels, LP gas	65.4	82.4	84.8	79.7	85.4
Machinery, self propelled	118.7	120.6	123.9	127.9	125.0
Tractors	111.1	112.6	110.9	110.3	111.7
Trucks & Autos	106.0	106.0	105.5	105.8	106.5
Building materials	107.6	110.4	116.1	118.1	120.8
Supplies & Repairs	106.0	107.9	111.6	114.7	116.5
Labor	115.9	119.1	126.3	133.2	136.7
Custom Rates	111.6	114.3	113.3	118.4	119.6
Interest	103.9	108.8	114.7	115.1	100.9
Rent	123.8	123.8	119.5	116.3	117.6
Taxes	110.7	115.5	117.1	117.9	118.7

## **Farm Labor**

**Hired farm workers: Annual average wage rates, 2016-2020 <sup>1</sup>**

Year	All hired workers	Field workers	Field and livestock workers	
			Dollars per hour	Dollars per hour
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
2020		15.44	15.07	14.72

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

# Agricultural Exports

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

Commodity	2018	2019	2020
	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Prepared foods	269,238	215,903	235,844
Dairy Products	107,228	145,937	232,370
Soybeans	178,534	140,302	183,872
Forest Products	185,189	171,134	158,505
Bakery goods, cereals, & pasta	161,255	154,147	155,436
Soybean meal	27,651	28,222	151,367
Dextrins, peptones, & proteins	100,994	102,126	93,538
Beef & beef products	104,167	76,509	86,683
Distillers grains	72,535	75,171	86,036
Pulses	68,789	67,396	82,098
Processed fruit	87,200	72,840	78,402
Fresh vegetables	111,411	76,278	78,054
Essential oils	73,791	66,294	65,490
Pork & pork products	31,363	40,574	58,374
Planting seeds	51,007	39,562	57,420
Meat products, unspecified & other	59,710	53,103	55,252
Non-alcoholic beverages <sup>2</sup>	15,698	27,787	45,661
Hides and skins	48,470	43,496	38,106
Corn	33,351	25,753	36,801
Chocolate & cocoa products	35,412	33,029	35,255
Processed vegetables	41,153	40,774	33,751
Condiments & sauces	25,585	32,867	22,650
Fresh fruit	22,543	23,491	22,128
Coffee, roasted & extracts	16,950	21,598	19,522
Other	153,082	150,259	137,694
<b>Total</b>	<b>2,082,306</b>	<b>1,924,552</b>	<b>2,250,309</b>

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

<sup>2</sup> Excludes juices, coffee, & tea.

## Michigan agricultural exports: Top 10 destinations, 2019-2020 <sup>1</sup>

Country	2019	2020
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	805,869	965,716
Mexico	217,010	270,959
South Korea	110,108	190,630
Japan	127,427	124,471
China	96,701	124,140
Thailand	104,031	107,179
Indonesia	66,379	53,463
Taiwan	47,369	44,441
Netherlands	40,261	33,738
Vietnam	20,483	25,679
Others	288,914	309,893
<b>Total</b>	<b>1,924,552</b>	<b>2,250,309</b>

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