

**Rank in U.S. agriculture by selected commodities, 2002**

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			<i>Thousands</i>	<i>Percent</i>	
<b>1</b>	Beans, dry, black	Cwt	2,030	65.2	Michigan
	Beans, dry, cranberry	Cwt	290	80.8	Michigan
	Blueberries	Pounds	64,000	33.4	Michigan
	Cucumbers (for pickles)	Tons	158.7	25.7	Michigan
	Flowering hanging baskets	Number	3,917	10.5	Michigan
	Geraniums (seed and cuttings)	Pots	21,402	21.1	Michigan
	Impatiens	Flats	2,289	16.7	Michigan
	Other potted perennials	Pots	26,813	14.7	Michigan
<b>2</b>	Beans, dry, all	Cwt	4,903	16.4	North Dakota
	Beans, dry, light red kidney	Cwt	260	21.7	Nebraska
	Beans, dry, navy	Cwt	1,620	30.5	North Dakota
	Beans, dry, small red	Cwt	208	34.4	Idaho
	Carrots (fresh market)	Cwt	1,452	5.0	California
	Celery	Cwt	987	5.3	California
	Cherries, tart	Pounds	15,000	24.0	Washington
	Hosta	Pots	1,857	16.9	South Carolina
	Marigolds	Flats	688	11.6	California
	Petunias	Flats	1,360	12.2	California
Squash	Cwt	1,564	18.1	California	
<b>3</b>	Apples	Pounds	500,000	5.8	Washington
	Asparagus	Cwt	219	11.7	California
	Beans, dry, dark red kidney	Cwt	130	12.1	Minnesota
	Cucumbers (fresh market)	Cwt	1,140	10.0	Georgia
	Grapes, Niagara	Tons	13.9	25.0	New York
	Vegetable type bedding plants	Flats	561	7.0	California
<b>4</b>	Cherries, sweet	Tons	2.7	1.5	Washington
	Grapes, Concord	Tons	25.3	6.6	Washington
	Sugarbeets	Tons	3,204	11.6	Minnesota
	Tomatoes (processing)	Tons	112.0	1.0	California
<b>5</b>	Beans, snap (processing)	Tons	60.0	7.2	Wisconsin
	Carrots (processing)	Tons	32.2	8.1	Washington
	Grapes, all	Tons	42.7	0.6	California
	Pumpkins	Cwt	600	7.6	Illinois
	Plums	Tons	2.5	0.1	California
<b>7</b>	Maple syrup	Gallons	66	4.9	Vermont
<b>8</b>	Milk	Pounds	5,945,000	3.5	California
<b>10</b>	Potatoes	Cwt	13,878	3.0	Idaho
<b>11</b>	Corn, for grain	Bushels	232,300	2.6	Iowa
	Soybeans	Bushels	78,155	2.9	Iowa
	Wheat, winter	Bushels	32,830	2.9	Kansas
<b>14</b>	Hogs, as of Dec. 1	Head	860	1.5	Iowa
<b>18</b>	Hay, all	Tons	3,700	2.4	Texas
<b>21</b>	Cash receipts	Dollars	3,390,072	1.8	California
<b>31</b>	Cattle, as of Jan. 1	Head	990	1.0	Texas

**Number of farms and land in farms by economic sales class, 1998-2002 <sup>1</sup>**

Year	Economic sales class			Total	Average size of farm
	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000 and over		
	<i>1,000 farms</i>	<i>1,000 farms</i>	<i>1,000 farms</i>	<i>1,000 farms</i>	
1998	27.0	17.0	8.0	52.0	
1999	28.5	16.5	8.0	53.0	
2000	27.5	16.5	8.0	52.0	
2001	28.5	15.5	8.0	52.0	
2002	28.5	15.5	8.0	52.0	
	<i>Million acres</i>	<i>Million acres</i>	<i>Million acres</i>	<i>Million acres</i>	<i>Acres</i>
1998	1.9	2.8	5.7	10.4	200
1999	1.9	2.8	5.7	10.4	196
2000	1.9	2.8	5.7	10.4	200
2001	1.8	2.7	5.9	10.4	200
2002	1.8	2.8	5.8	10.4	200

<sup>1</sup> USDA estimates of farm number and land in farms are based on the definition "a farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year."

**Farm real estate: Values and cash rents, 1999-2003**

Year	Farm real estate average value per acre	Cropland	
		Average value per acre	Average cash rent per acre
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1999	1,850	1,670	60
2000	2,150	2,000	60
2001	2,300	2,100	60
2002	2,500	2,300	60
2003	2,700	2,400	60

## Farm Income

Net farm income in 2002 fell 20 percent to \$194 million. That was despite \$189 million of government payments. The total agriculture output was \$4.02 billion dollars, up 1.5 percent from 2001. Production expenses were \$4.00 billion in 2002, down 1.3 percent from the previous year.

Preliminary cash receipts from 2002 marketings of Michigan crops, livestock and livestock products totaled \$3.39 billion, down 3.3 percent from 2001. Michigan ranked twenty-first nationally in total cash receipts.

Crop receipts, at \$2.13 billion, were up 5.7 percent from 2001. A decline in the market value of fruit crops was offset by increases in field crop and vegetable marketings. Livestock cash receipts were down 15.6 percent from a year earlier to \$1.26 billion.

In 2002, the top ten Michigan commodities ranked by cash receipts were: milk, soybeans, corn, cattle and calves, woody ornamentals, hogs, annual bedding plants, sugarbeets, wheat, and potatoes.

**Government payments, 1998-2002 <sup>1</sup>**

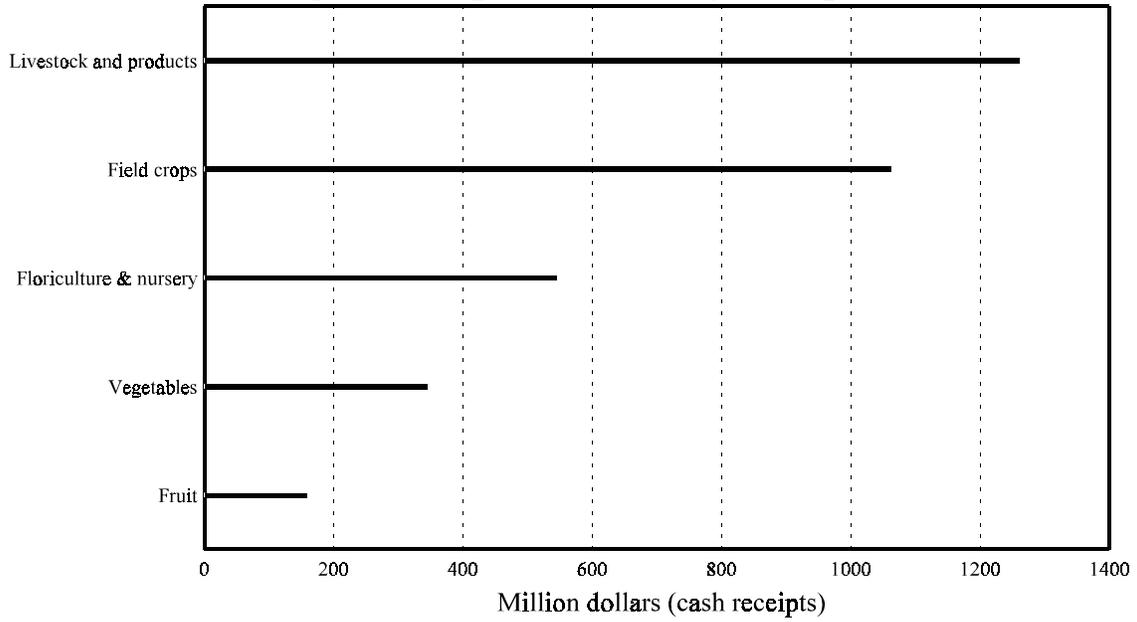
Program	1998	1999	2000	2001	2002
	<i>1,000 dollars</i>				
Conservation programs	17,488	16,893	16,842	21,335	28,193
Production flexibility contract payments	NA	NA	NA	NA	1,684
Direct payments	100,556	87,116	87,564	68,405	59,438
Loan deficiency payments	38,577	131,482	112,565	101,666	24,332
Miscellaneous programs	51,755	10,569	17,713	17,962	<sup>2</sup> 37,651
Supplemental Funding	NA	<sup>3</sup> 143,076	146,372	143,398	NA
Milk income loss payments	NA	NA	NA	NA	37,215
Total	208,077	389,099	381,056	352,766	188,513

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

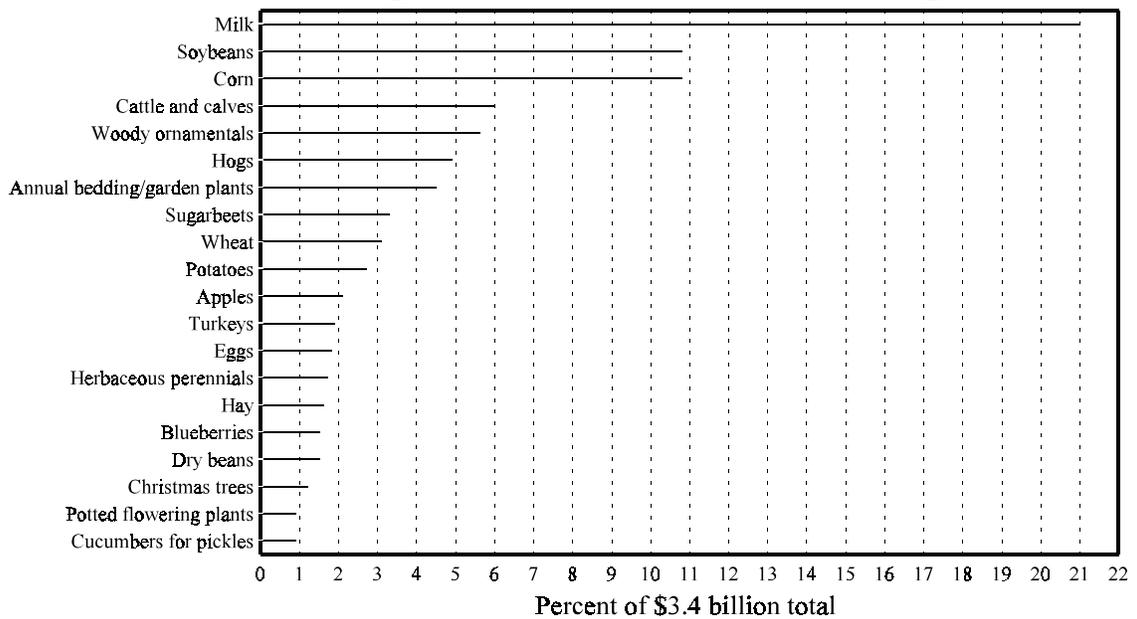
<sup>2</sup> Programs included are disaster, marketing loan gains, and ad hoc and emergency programs; CAT, NAP, and repayments are no longer included.

<sup>3</sup> Provided by the Omnibus Supplemental Appropriations Act of 1999 and the Emergency Assistance Provisions of Agriculture Appropriation 2000.

## Major Michigan Commodity Groups, 2002



## Top 20 Commodities in Cash Receipts, 2002



**Value added to the economy by the Michigan agricultural sector 1998-2002 <sup>1</sup>**

Item <sup>2</sup>	1998	1999	2000	2001	2002
	<i>Million dollars</i>				
Final crop output	2,134.2	2,269.3	1,997.4	1,881.9	2,248.4
Food grains	67.7	71.5	78.4	99.4	104.3
Feed crops	418.5	369.5	344.6	405.8	424.2
Oil crops	412.8	312.2	324.5	292.9	365.3
Fruits and tree nuts	217.2	246.4	238.5	214.9	157.7
Vegetables, potatoes, dry beans	429.3	452.0	402.6	351.2	394.6
All other crops	635.1	683.2	594.5	650.4	684.3
Home consumption	3.6	3.8	3.6	3.7	3.7
Value of inventory adjustment <sup>3</sup>	-50.1	130.8	10.7	-136.4	114.3
Final animal output	1,335.1	1,299.0	1,317.7	1,512.3	1,261.0
Meat animals	338.2	387.9	458.6	443.0	373.1
Dairy products	814.0	801.4	729.5	883.1	712.1
Poultry and eggs	119.2	90.9	98.7	119.2	123.6
Miscellaneous livestock	48.6	47.6	47.1	46.9	50.9
Home consumption	9.3	9.7	11.3	9.6	9.0
Value of inventory adjustment <sup>3</sup>	5.8	-38.5	-27.4	10.5	-7.7
Services and forestry	444.1	481.7	477.9	562.3	508.4
Machine hire and custom work	49.7	37.9	30.0	55.7	33.6
Forest products sold	10.0	10.0	10.0	10.0	10.0
Other farm income	91.9	95.7	92.7	125.2	92.1
Gross imputed rental value-farm dwellings	292.5	338.1	345.2	371.5	372.7
Final agricultural sector output	3,913.4	4,050.0	3,792.9	3,956.5	4,017.8
<b>less:</b> Purchased inputs	2,195.0	2,157.5	2,218.6	2,415.3	2,340.4
Farm origin	657.4	623.1	660.9	711.9	724.4
Feed purchased	373.8	329.6	344.7	369.7	387.0
Livestock and poultry purchased	39.2	44.1	53.0	58.9	41.7
Seed purchased	244.4	249.4	263.2	283.2	295.8
Manufactured inputs	663.9	635.7	680.3	693.9	672.9
Fertilizers and lime	249.9	235.2	236.9	255.9	235.9
Pesticides	228.7	217.9	225.1	211.8	216.7
Petroleum fuel and oils	128.7	124.3	160.4	162.4	153.7
Electricity	56.6	58.3	58.0	63.7	66.7
Other intermediate expenses	873.7	898.7	877.4	1,009.5	943.2
Repair and maintenance of capital items	308.1	297.8	273.7	375.7	300.9
Machine hire and custom work	77.5	72.5	75.6	120.0	81.1
Marketing, storage, and transp. expenses	93.1	114.0	122.4	97.4	121.6
Contract labor	21.6	16.0	14.0	22.9	17.3
Miscellaneous expenses	373.4	398.6	391.6	393.5	422.3
<b>plus:</b> Net government transactions	-14.2	180.3	151.4	124.1	-34.2
<b>plus:</b> Direct Government payments	210.6	401.4	381.1	352.8	188.5
<b>less:</b> Motor vehicle reg. and licensing fees	10.5	9.3	8.6	10.0	8.7
<b>less:</b> Property taxes	214.3	211.8	221.0	218.7	214.1
Gross value added	1,704.2	2,072.9	1,725.8	1,665.4	1,643.1
<b>less:</b> Capital consumption	538.7	565.7	581.3	595.7	615.5
Net value added	1,165.4	1,507.1	1,144.5	1,069.6	1,027.6
<b>less:</b> Payments to stakeholders	799.9	782.5	850.9	828.6	833.8
Employee compensation (total hired labor)	511.0	496.5	567.4	560.9	578.2
Net rent received by nonoperator landlords	28.0	29.6	11.9	21.1	21.7
Real estate and nonreal estate interest	260.9	256.5	271.6	246.6	234.0
<b>Net farm income</b>	<b>365.5</b>	<b>724.6</b>	<b>293.6</b>	<b>241.1</b>	<b>193.7</b>

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

<sup>2</sup> Final sector output 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. 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 1. A negative value is an offset to production from prior years included in current-year sales.

**Cash receipts by commodity groups and selected commodities 1998-2002 <sup>1</sup>**

Item	1998	1999	2000	2001	2002
	<i>1,000 dollars</i>				
<b>Total cash receipts</b>	3,500,694	3,462,584	3,316,884	3,506,871	3,390,071
<b>Total livestock and products</b>	1,320,034	1,327,853	1,333,868	1,492,242	1,259,700
Meat animals	338,236	387,877	458,574	442,970	373,105
Cattle and calves	196,656	235,829	255,892	227,930	204,629
Hogs	138,347	149,937	200,485	212,599	165,928
Sheep and lambs	3,233	2,111	2,197	2,441	2,548
Dairy (milk)	813,960	801,420	729,495	883,120	712,085
Poultry and eggs	119,233	90,914	98,739	119,207	123,620
Eggs	57,639	53,655	56,739	61,063	59,459
Turkeys		35,092	40,460	56,700	62,832
Other	61,594	2,167	1,540	1,444	1,329
Miscellaneous livestock	48,605	47,642	47,060	46,945	50,890
Honey	4,488	4,095	3,240	3,694	7,429
Mink pelts	1,854	1,339	1,719	1,445	1,809
Trout	1,151	1,113	1,037	823	663
Other	41,112	41,095	41,064	40,983	40,989
<b>Total crops</b>	2,180,660	2,134,731	1,983,016	2,014,629	2,130,371
Field crops	1,109,725	1,012,477	937,336	941,909	1,061,744
Corn	380,769	328,897	295,917	346,105	364,637
Dry beans	101,836	135,567	75,340	24,669	49,416
Hay	32,468	35,272	45,379	56,232	54,991
Soybeans	412,373	311,866	324,092	292,548	364,915
Sugarbeets	101,586	115,915	106,514	112,056	111,499
Wheat	67,293	70,789	77,613	98,841	103,819
Other	13,400	14,171	12,481	11,458	12,467
Vegetables	327,465	316,386	327,279	326,505	345,157
Asparagus	17,320	18,822	18,075	12,516	11,703
Beans, snap	21,659	19,493	16,778	15,614	17,005
Carrots	19,281	16,717	19,292	25,358	21,033
Celery	13,327	11,005	13,421	12,650	14,441
Corn, sweet	12,900	13,282	13,430	11,880	16,800
Cucumbers, fresh	21,366	22,506	25,192	24,200	20,520
Cucumbers, pickles	21,970	26,076	38,700	30,843	30,153
Onions	10,077	8,866	9,127	9,655	9,347
Peppers, green, fresh	8,640	9,600	10,395	8,008	9,600
Potatoes	82,603	82,258	87,362	91,478	92,925
Pumpkins			8,448	6,336	9,600
Squash			9,333	15,254	22,365
Tomatoes, fresh	18,596	16,549	18,115	13,230	10,889
Tomatoes, processing	7,560	7,308	6,804	8,432	9,296
Other	72,166	63,904	32,807	41,051	49,480
Fruit	217,243	246,377	238,523	214,916	157,667
Apples	93,808	98,551	91,304	78,280	70,925
Blueberries	30,260	54,660	55,140	49,840	52,240
Grapes	19,820	21,083	24,156	10,110	14,757
Peaches	11,546	5,440	11,340	12,503	4,452
Strawberries	7,089	6,412	6,145	4,682	3,804
Sweet cherries	18,551	14,149	10,290	11,092	2,222
Tart cherries	32,162	42,134	36,370	44,412	7,192
Other	4,007	3,948	3,778	3,997	2,075
Miscellaneous crops	17,783	16,552	17,926	19,554	20,885
Floriculture and nursery	508,444	542,939	461,952	511,745	544,918

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

**Soybean production costs and returns, excluding direct Government payments, 2000-2001**

Item	United States		Northern Crescent <sup>1</sup>	
	2000	2001	2000	2001
	<i>Dollars per planted acre</i>			
Gross value of production	182.45	178.45	182.04	150.59
Operating costs:				
Seed	19.18	22.59	19.37	25.34
Fertilizer	7.87	8.32	13.12	14.30
Soil conditioners	0.14	0.11	0.20	0.20
Manure	0.84	1.09	2.01	2.68
Chemicals	22.32	22.89	25.07	26.51
Custom operations	5.94	6.13	6.51	6.83
Fuel, lube, and electricity	8.60	8.77	8.95	8.94
Repairs	10.17	10.56	9.79	10.23
Purchased irrigation water	0.06	0.06	0.00	0.00
Interest on operating capital	2.16	1.36	2.45	1.60
Total, operating costs	77.28	81.88	87.47	96.63
Allocated overhead:				
Hired labor	2.03	2.04	2.13	2.22
Opportunity cost of unpaid labor	19.49	20.17	26.42	27.70
Capital recovery of machinery and equipment	53.61	55.75	53.88	56.41
Opportunity cost of land (rental rate)	80.12	81.98	67.40	68.71
Taxes and insurance	7.01	7.14	7.10	7.21
General farm overhead	14.56	15.17	15.06	15.62
Total, allocated overhead	176.82	182.25	171.99	177.87
Total, costs listed	254.10	264.13	259.46	274.50
Value of production less total costs listed	-71.65	-85.68	-77.42	-123.91
Value of production less operating costs	105.17	96.57	94.57	53.96
Supporting information:				
Yield (bushels per planted acre)	41	43	41	37
Price (dollars per bushel at harvest)	4.45	4.15	4.44	4.07
Enterprise size (planted acres) <sup>2</sup>	220	220	115	115
Production practices: <sup>2</sup>				
Irrigated (percent)	5	5	3	3
Dryland (percent)	95	95	97	97

<sup>1</sup> Includes NE Minnesota, Wisconsin, Michigan, NE Ohio, Pennsylvania, New York, and New England.

<sup>2</sup> Developed from survey base year, 1997.

**Livestock and products: Marketing year average prices received by farmers, 1998-2002**

Marketing year	All hogs per cwt	All beef per cwt <sup>1</sup>	Cows per cwt <sup>2</sup>	Steers and heifers per cwt	Milk cows per head <sup>3</sup>	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt	Turkeys per pound <sup>4</sup>
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1998	33.90	47.70	34.40	55.40	1,130	51.70	0.496	15.30	
1999	29.80	50.50	35.30	58.70	1,310	68.90	0.420	14.80	0.41
2000	40.70	56.00	38.10	63.60	1,350	102.00	0.419	12.90	0.34
2001	41.70	58.80	41.70	66.10	1,460	109.00	0.437	15.20	0.35
2002	30.70	54.20	39.00	60.50	1,580	104.00	0.402	12.10	0.35

<sup>1</sup> Combined price for "Cows" and "Steers and Heifers."

<sup>2</sup> Beef cows and cull dairy cows sold for slaughter.

<sup>3</sup> Sold for dairy herd replacement only. Prices published January, April, July, and October.

<sup>4</sup> Data not available prior to 1999.

**Livestock and products: Monthly prices received by farmers, 2002-2003**

2001-2002 Marketing years	All hogs per cwt	Beef cattle per cwt <sup>1</sup>	Cows per cwt <sup>2</sup>	Steers and heifers per cwt	Milk cows per head <sup>3</sup>	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2001								
December	31.30						0.420	
2002								
January	35.20	54.90	40.50	61.00	1,550	105.00	0.460	13.70
February	36.70	56.90	42.50	63.00		110.00	0.370	13.30
March	34.40	57.70	43.00	64.00		110.00	0.570	12.60
April	28.50	55.70	41.00	62.00	1,650	109.00	0.280	12.50
May	30.80	55.90	41.50	62.00		110.00	0.240	12.20
June	32.10	55.20	41.50	61.00		108.00	0.420	11.50
July	33.80	53.60	41.00	59.00	1,600	105.00	0.350	11.10
August	29.60	53.20	39.50	59.00		100.00	0.410	11.50
September	24.10	51.90	37.50	58.00		97.00	0.380	11.60
October	27.20	51.40	36.00	58.00	1,500	95.00	0.350	12.00
November	26.40	51.50	34.00	59.00		95.00	0.580	11.90
December		52.40	34.50	60.00		90.00		11.80
2002								
December	28.40						0.540	
2003								
January	29.20	54.90	36.00	63.00	1,400	92.00	0.530	11.80
February	32.00	57.50	37.50	66.00		90.00	0.450	11.60
March	32.20	58.60	39.00	67.00		88.00	0.540	11.00
April	32.70	59.60	40.00	68.00	1,350	88.00	0.540	11.10
May	37.40	61.80	42.50	70.00		91.00	0.390	11.30
June	41.10	63.00	42.00	72.00		95.00	0.500	11.10
July	40.40	62.20	44.00	70.00	1,350	93.00	0.540	12.00
August								
September								
October								
November								
December								

<sup>1</sup> Combined price for "Cows" and "Steers and Heifers."

<sup>2</sup> Beef cows and cull dairy cows sold for slaughter.

<sup>3</sup> Sold for dairy herd replacement only. Prices published January, April, July, and October.

**Dry edible beans: Percent of sales by month, 1997-2002**

Month	1997-98	1998-99	1999-00	2000-01	2001-02
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
September	5	30	49	10	5
October	16	12	17	23	13
November	11	6	3	14	23
December	16	10	3	28	18
January	11	20	3	10	11
February	10	5	1	4	9
March	6	3		5	7
April	6	4	3	1	4
May	5	7	2	2	2
June	5	1	3	1	2
July	5	1	5	1	1
August	4	1	11	1	5

**Corn: Percent of sales by month, 1997-2002**

Month	1997-98	1998-99	1999-00	2000-01	2001-02
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
October	5	16	20	9	9
November	20	14	19	14	27
December	19	14	8	12	8
January	16	12	15	12	10
February	9	6	4	7	4
March	7	8	7	7	3
April	5	3	4	6	5
May	5	4	4	4	3
June	4	5	4	5	5
July	3	5	4	11	10
August	3	9	6	7	9
September	4	4	5	6	7

**Hay: Percent of sales by month, 1997-2002**

Month	1997-98	1998-99	1999-00	2000-01	2001-02
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
June	13	13	17	12	18
July	13	13	10	12	17
August	9	9	9	8	16
September	6	6	3	5	6
October	6	6	7	7	6
November	12	5	8	10	7
December	12	6	14	12	6
January	8	7	10	8	6
February	6	11	9	9	6
March	7	11	6	8	4
April	5	9	5	6	4
May	3	4	2	3	4

**Oats: Percent of sales by month, 1997-2002**

Month	1997-98	1998-99	1999-00	2000-01	2001-02
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
July	7	23	17	9	19
August	39	25	35	37	19
September	7	9	11	6	4
October	2	3	7	3	3
November	2	2	1	4	2
December	2	2	4	4	6
January	1	4	2	9	5
February	4	7	3	8	2
March	11	2	6	4	28
April	15	5	3	3	2
May	4	9	3	4	6
June	6	9	8	9	4

**Soybeans: Percent of sales by month, 1997-2002**

Month	1997-98	1998-99	1999-00	2000-01	2001-02
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
September	1	12	8	6	2
October	31	34	33	25	25
November	19	8	7	11	20
December	8	9	7	9	6
January	8	8	12	14	9
February	7	5	3	6	4
March	5	7	7	5	6
April	4	5	4	7	2
May	4	2	3	8	2
June	5	4	4	5	7
July	4	3	4	3	9
August	4	3	8	1	8

**Wheat: Percent of sales by month, 1997-2002**

Month	1997-98	1998-99	1999-00	2000-01	2001-02
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
July	20	30	42	32	50
August	27	12	18	15	18
September	7	21	2	12	7
October	3	4	2	6	4
November	25	3	1	1	2
December	3	6	1	3	4
January	3	5	12	11	4
February	5	3	2	6	3
March	2	6	12	5	1
April	2	3	3	5	4
May	2	3	2	2	1
June	1	4	3	2	2

**Crops: Marketing year average prices received by farmers, 1998-2002 <sup>1</sup>**

Year	Corn per bushel	Winter wheat per bushel	Oats per bushel	Soybeans per bushel	Dry beans per cwt	Navy beans per cwt	Fall potatoes per cwt	All hay per ton	Alfalfa hay per ton
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1998	1.90	2.33	1.42	4.99	21.60	NA	6.70	89.00	90.00
1999	1.78	2.12	1.35	4.61	16.80	NA	6.80	69.00	72.00
2000	1.90	2.11	1.30	4.54	13.70	NA	6.70	62.50	64.50
2001	1.97	2.43	1.80	4.47	24.60	NA	7.65	70.50	73.50
2002	2.30	3.30	1.75	5.50	14.50	NA	7.80	80.00	82.00

<sup>1</sup> Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings during specific periods. Prices do not include allowance for CCC loans outstanding, purchases by the government, or deficiency payments.

**Crops: Monthly prices received by farmers, 2001-2002**

Year	Corn per bushel	Winter wheat per bushel	Oats per bushel	Soybeans per bushel	Dry beans per cwt	Navy beans per cwt	Fall potatoes per cwt	All hay per ton	Alfalfa hay per ton
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2001									
June								52.00	55.00
July		2.34	1.40				6.50	69.00	75.00
August		2.42	1.36				6.90	75.00	75.00
September		2.39	1.46	4.76	21.20	18.00	6.35	74.00	75.00
October	1.82	2.46	1.57	4.06	23.50	19.20	6.45	74.00	75.00
November	1.75	2.61	1.80	4.09	25.30	21.50	7.10	74.00	75.00
December	1.90	2.89	2.10	4.16	24.50	22.30	7.20	79.00	80.00
2002									
January	1.93	2.81	2.32	4.24	24.60	22.20	7.80	79.00	80.00
February	1.90	2.63	1.99	4.26	24.20	23.20	8.25	77.00	80.00
March	1.92	2.65	2.03	4.44	26.90	23.00	9.20	77.00	80.00
April	1.88	2.49	2.49	4.66	28.70	20.80	9.40	84.00	85.00
May	1.95	2.50	2.34	4.65	30.00	20.70	9.40	73.00	75.00
June	1.97	2.69	2.30	4.97	27.10	15.30	10.00		
July	2.16			5.46	27.50	14.00			
August	2.44			5.56	20.00	14.60			
September	2.41								
2002									
June								54.00	55.00
July		3.11	1.80				9.70	63.00	65.00
August		3.34	1.70				7.20	85.00	85.00
September		3.54	1.66	5.37	15.70	15.00	6.50	84.00	85.00
October	2.31	3.76	( <sup>1</sup> )	5.25	14.80	14.80	6.40	89.00	90.00
November	2.31	3.87	1.64	5.67	13.00	11.40	7.05	104.00	105.00
December	2.30	3.39	1.82	5.66	15.20	13.00	7.40	99.00	100.00
2003									
January	2.33	3.53	1.97	5.68	17.40	10.50	7.75	95.00	95.00
February	2.36	3.17	1.84	5.63	15.70	11.60	8.10	98.00	100.00
March	2.41	3.35	2.39	5.73	12.50	9.50	8.70	103.00	105.00
April	2.43	3.26	2.15	5.94	17.70	11.60	9.10	99.00	100.00
May	2.45	3.20	2.13	6.28	15.20	12.60	9.30	99.00	95.00
June	2.43	( <sup>2</sup> )	2.22	6.08	14.00	13.90	( <sup>1</sup> )	89.00	95.00
July	2.26	3.10	1.84	6.06	18.00	15.10	8.70	89.00	95.00
August									
September									

<sup>1</sup> Insufficient sales to establish a price.

<sup>2</sup> Price not published to avoid disclosure of individual firms.

**Prices paid by farmers, 1999-2003 <sup>1</sup>**

Item	Unit	1999	2000	2001	2002	2003
		<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Dairy feed, 16% protein <sup>2</sup>	Ton	171	167	184	184	190
Hog concentrate, 38-42% protein <sup>2</sup>	Ton	273	288	290	298	313
Soybean meal, 44% protein <sup>2</sup>	Cwt	9.50	10.90	11.00	11.50	11.70
Gasoline, unleaded, bulk <sup>2</sup>	Gallon	1.17	1.48	1.48	1.40	1.64
Diesel fuel <sup>2</sup>	Gallon	0.76	1.12	1.15	1.00	1.28
Tractor, 110-129 hp <sup>3</sup>	Each	60,100	62,400	63,000	63,700	63,800
Tractor, 200-280 hp, 4-wd <sup>3</sup>	Each	116,000	120,000	127,000	132,000	133,000
Planter, row crop, 8-row <sup>3</sup>	Each	26,000	26,900	28,800	29,000	30,000
Grain drill, press, 23-25 openers <sup>3</sup>	Each	15,600	17,500	18,500	23,100	20,300
Combine, self-prop. w/ grain head, large cap. <sup>3</sup>	Each	142,000	146,000	152,000	156,000	159,000
Ammonium nitrate <sup>4</sup>	Ton	168	181	243	180	224
Muriate of potash 60-62% K <sub>2</sub> O <sup>4</sup>	Ton	166	162	167	161	162
Superphosphate, 44-46% P <sub>2</sub> O <sub>5</sub> <sup>4</sup>	Ton	252	227	229	215	238
Anhydrous ammonia <sup>4</sup>	Ton	211	231	408	254	368
Atrazine, 4#/gallon <sup>3</sup>	Gallon	13.70	13.60	12.50	12.20	12.30
Roundup, 4#/gallon EC <sup>3</sup>	Gallon	45.50	43.30	44.50	43.50	43.30
Harness, Surpass, 6.4-7#/gallon <sup>3</sup>	Gallon	68.00	68.40	68.90	68.10	68.20
Dual, 8#/gallon EC <sup>3</sup>	Gallon	77.70	82.60	94.50	99.00	104.00
Captan, 50% WP <sup>3</sup>	Pound	3.46	3.45	3.61	3.76	3.50
Ziram, 76% WP <sup>3</sup>	Pound	2.92	2.72	2.82	2.82	2.70
Guthion, 50% WP <sup>3</sup>	Pound	9.20	9.68	9.87	10.60	10.60
Imidan, Prolate, 50% WP <sup>3</sup>	Pound	6.25	6.59	6.98	7.30	7.40

EC=Emulsifiable concentrate. WP=Wettable powder.

<sup>1</sup> Regional and U.S. data only. Published in April.

<sup>2</sup> Lake States=MI, MN, WI.

<sup>3</sup> United States.

<sup>4</sup> North Central Region=IL,IN, IA, MI, MN, MO, OH, WI.

**Farm production expenses, 1998-2002**

Item	1998	1999	2000	2001	2002
	<i>Million dollars</i>				
Feed purchased	373.8	329.6	344.7	369.7	387.0
Livestock and poultry purchased	39.2	44.1	53.0	58.9	41.7
Seed purchased	244.4	249.4	263.2	283.2	295.8
Fertilizers and lime	249.9	235.2	236.9	255.9	235.9
Pesticides	228.7	217.9	225.1	211.8	216.7
Petroleum fuel and oils	128.7	124.3	160.4	162.4	153.7
Electricity	56.6	58.3	58.0	63.7	66.7
Repair and maintenance of capital items	308.1	297.8	273.7	375.7	300.9
Machine hire and custom work	77.5	72.5	75.6	120.0	81.1
Contract and hired labor expenses	532.6	512.5	581.4	583.8	595.5
Marketing, storage, and transportation expenses	93.1	114.0	122.4	97.4	121.6
Capital consumption	538.7	565.7	581.3	595.7	615.5
Real estate and nonreal estate interest	260.9	256.5	271.6	246.6	234.0
Property taxes	214.3	211.8	221.0	218.7	214.1
Net rent received by nonoperator landlords	28.0	29.6	11.9	21.1	21.7
Miscellaneous expenses	373.4	398.6	391.6	393.5	422.3
Total production expenses	3,747.9	3,717.8	3,871.8	4,058.1	4,004.2

**Farm Labor**

**Hired farm workers: Annual average wage rates, 1998-2002**

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>
1998	7.87	7.39	7.39
1999	8.21	7.44	7.37
2000	8.77	7.87	7.93
2001	8.96	8.15	8.18
2002	9.62	8.62	8.66

## Agricultural Exports

Michigan ranked twenty-third in agricultural exports for fiscal year 2002. The table below shows the value of agricultural exports by commodity group. The data are calculated annually by commodity based on each States' share of the U.S. agricultural

production. The top seven commodities accounted for 81.5 percent of the State's agricultural exports. The total value of agricultural exports from Michigan in 2002 was estimated at \$735 million.

### Top agricultural exports: Fiscal year 2002

Commodity	Value Million \$	Percent of Total	Rank in U.S.
1. Soybeans and products	161.9	22.0	12
2. Feed grains and products	127.1	17.3	12
3. Vegetables and preparations	105.8	14.4	9
4. Fruits and preparations	79.5	10.8	5
5. Live animals and meat*	53.0	7.2	20
6. Wheat and products	48.9	6.7	26
7. Feeds and fodders	22.7	3.1	26
8. Other	136.0	18.5	--
<b>Total</b>	<b>734.9</b>		<b>23</b>

\* Excluding Poultry

Source: U.S. Department of Agriculture, Economic Research Service, <http://www.ers.usda.gov/data/fatus>, State export data.

### Agricultural exports from Michigan: Top 10 destinations, 2001-2002

Country	2001	2002
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	185,746	198,723
Mexico	13,686	11,383
Italy	5,727	5,340
Japan	5,062	4,540
France	752	1,893
United Kingdom	7,573	1,661
Guatemala	1,063	799
Spain	1,417	625
South Africa	NA	582
Dominican Republic	1,002	576

Source: US Department of Commerce, International Trade Administration ([www.ita.doc.gov](http://www.ita.doc.gov))