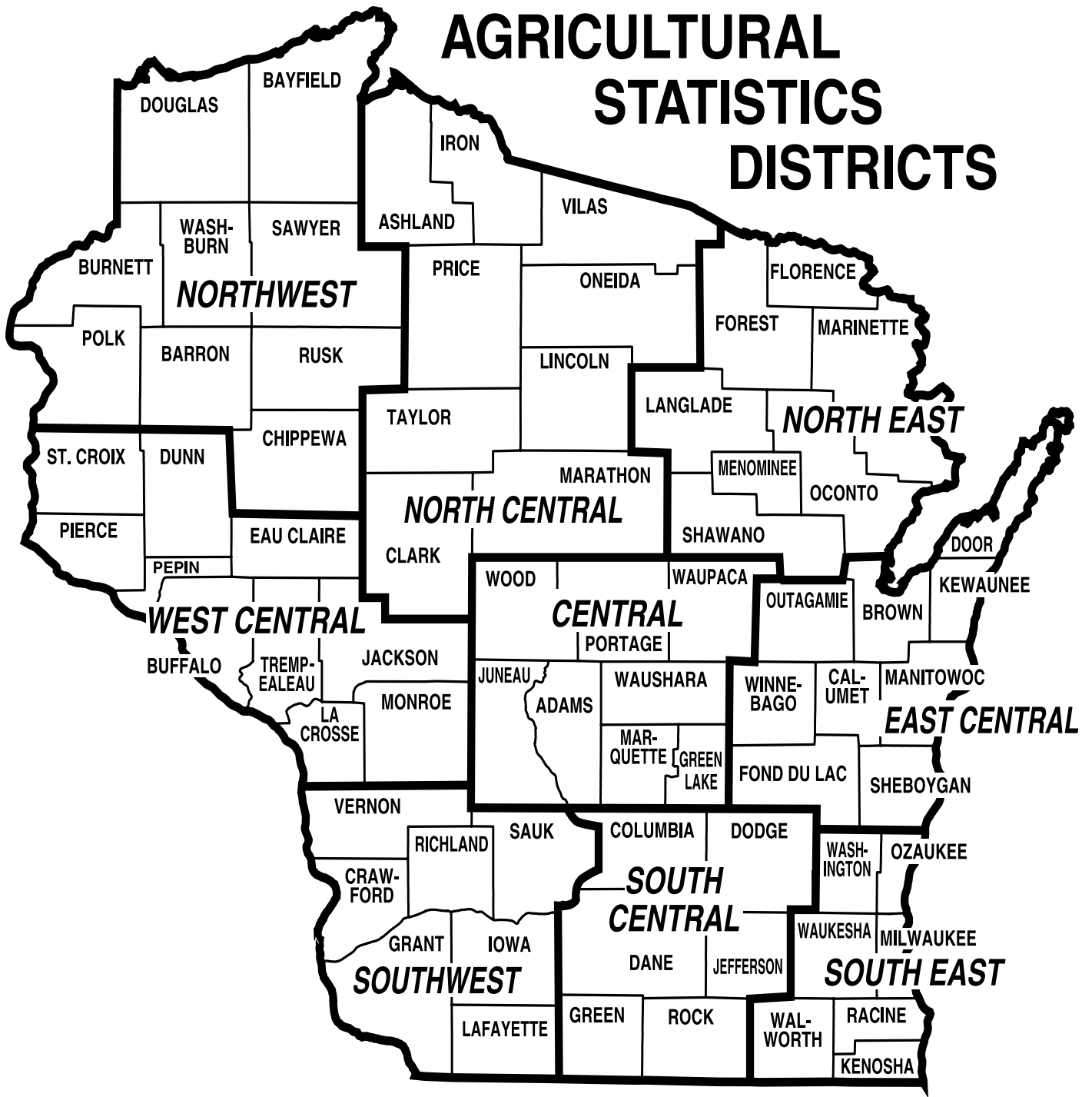


**2020
WISCONSIN
AGRICULTURAL
STATISTICS**



AGRICULTURAL STATISTICS DISTRICTS





United States Department of Agriculture
National Agricultural Statistics Service



Cooperating with the Wisconsin Department of Agriculture, Trade and Consumer Protection
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A Cooperative Function of:

**WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE
AND CONSUMER PROTECTION**

Randy Romanski, *Secretary-designee*
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**UNITED STATES DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service**

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USDA NASS, WISCONSIN FIELD OFFICE

Greg Bussler, *State Statistician*
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2020 Wisconsin Agricultural Statistics

The USDA's National Agricultural Statistics Service (NASS), Wisconsin Field Office is pleased to team with Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) to provide you with the 2020 edition of *Wisconsin Agricultural Statistics*. This publication, which is also available on our website, is a statistical profile of Wisconsin's agriculture and includes information at the county level.

In 2019, Wisconsin maintained its position as the number one state in American cheese, cheddar cheese and total cheese production, dry whey for human consumption, milk goat inventory, mink pelts produced, corn harvested for silage, snap beans for processing, and cranberry production. Wisconsin cows produced 14 percent of the nation's milk supply. Throughout this publication you will find many other interesting statistics about Wisconsin's diverse and dynamic agriculture industry.

Publication and dissemination of agricultural statistics is only possible with cooperation of farmers, agribusiness, commodity groups, and countless others who gave their valuable time to provide the information for the content within this publication. Without this cooperation, this publication would not be available.

I also want to thank our help from the National Association of State Departments of Agriculture enumerators for their outstanding effort in collecting and providing quality statistics for Wisconsin. In addition, the Wisconsin Field Office has a dedicated staff that helped put this publication together. Everyone is committed to the work they do and I am thankful for their dedication to Wisconsin agriculture.

I hope you find this information beneficial for your agricultural interests. Throughout the year, NASS releases many other reports and they are posted at www.nass.usda.gov. Please contact me anytime with your comments, questions, or requests for assistance.

Sincerely,

Greg A. Bussler
State Statistician

September 2020



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Secretary-designee Randy Romanski

Greetings,

Thank you for your interest in the 2020 Wisconsin Agricultural Statistics Bulletin. Our team at the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) relies on this annual publication to inform our decisions and share the story of Wisconsin agriculture each year. As we all know, 2020 has been a year like no other. During a worldwide pandemic, the essential role of this \$104.8 billion industry became even clearer.

The greatest strength of Wisconsin agriculture is its diversity. In this bulletin, you will see a detailed overview of the state's expansive agriculture industry including dairy, livestock, grains, fruits, vegetables, specialty crops, and more. Many are already aware of Wisconsin's leadership in several commodities such as cheese and cranberries, but fewer people understand the significance of the entire diverse food supply chain in our state. About one in nine people working in Wisconsin hold a job related to agriculture. This includes a wide variety of professions, from farming to information technology to marketing and more.

Throughout the COVID-19 pandemic, the strengths and weaknesses of the world's food supply chain have become increasingly apparent. In the spring of 2020, consumers quickly adapted their lifestyle and changed their purchasing tendencies. Families were eating at home instead of at schools and restaurants. Some people were seeking to purchase meat and produce from local farmers for the first time. Despite all of these challenges, Wisconsin's agricultural community pulled together across all levels of the food supply chain to make sure store shelves were stocked and consumers had access to nutritious, high-quality food. Throughout the pandemic, Wisconsin agriculture has demonstrated extraordinary resilience.

DATCP worked alongside industry to build connections between farmers, processors, agribusinesses, retailers, transporters, distributors, and consumers. Because of Wisconsin's agricultural diversity, the state was prepared to adapt. Our farmers and processors were able to meet consumers' needs while also supporting the food insecure network that faced extraordinary demand. I am proud of this industry's continued response to ongoing challenges. Whether consumers are seeking milk, apples, snap beans, eggs, or other nutritious products, Wisconsin farmers and food processors are prepared to be their trusted source.

I am confident Wisconsin agriculture will continue to have a positive impact on the diverse food supply chain and the state's entire economy. I am grateful to the National Agricultural Statistics Service team for collecting, summarizing, and packaging the information in this bulletin. I hope these numbers are as valuable to you as they are to me.

Thank you again for your attention and support of Wisconsin agriculture!

Sincerely,

Randy Romanski
Secretary-designee

Wisconsin - America's Dairyland

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Wisconsin Agriculture and Economics

Wisconsin cash receipts from farm marketings totaled \$11.3 billion in 2019, a 3 percent increase from 2018. Receipts from livestock, dairy, and poultry comprised 70 percent of the total marketings of all commodities, compared to 67 percent the previous year. Milk sales totaled \$5.70 billion in 2019, up 14 percent from the previous year's total. During the same period, sales of meat animals fell 3 percent and poultry and eggs sales fell 22 percent. Miscellaneous livestock sales fell 3 percent overall. This included a 2 percent increase in trout sales, a 19 percent decrease in mink pelt sales and a 5 percent decrease in honey sales.

In 2019, cash receipts for all Wisconsin crops totaled \$3.43 billion, down 5 percent from 2018. Sales of feed crops fell 2 percent from 2018. Corn sales were down 4 percent, to \$1.41 billion. Soybean receipts, at \$731 million, were down 17 percent. Total vegetable marketings rose 3 percent. Potato sales were down less than 1 percent while snap beans fell 12 percent. Sweet corn for processing receipts were down 18 percent while fresh market sweet corn receipts were down 12 percent. Fruit and nut receipts were down 12 percent overall, with tart cherries falling 52 percent and cranberries down 12 percent.

Wisconsin farm production expenditures totaled \$10.6 billion in 2019, up 5 percent from the previous year. Feed expenses rose 20 percent to \$2.15 billion. This represented the largest single production expense for Wisconsin farmers in 2019, accounting for 20 percent of the total. Farm services were the second largest expense, totaling \$1.47 billion and 14 percent

of the total. Expenditures for farm services were up 5 percent from 2018. Expenditures fell 46 percent for livestock, poultry and related expenses and 20 percent for miscellaneous capital expenses. Spending on agricultural chemicals, taxes and fuels also fell modestly. Spending on trucks and autos was up 100 percent and other farm machinery was up 38 percent. All other expenditures rose over the previous year. Expenditures per Wisconsin farm averaged \$162,558 in 2019, 8 percent less than the national average of \$177,564 per farm.

In 2019, the total number of agricultural land sales in Wisconsin decreased 12 percent to 1,470. The total acreage sold decreased 3 percent to 92,233 acres. The average value of all agricultural land sold fell 6 percent to \$5,811 per acre.

The average value of land continuing in agricultural use fell less than one percent to \$5,803 per acre, while the value of land being diverted to other uses fell 48 percent to \$6,269 per acre. The number of transactions where the land continued in agricultural use was down by 70 while the number of transactions where the land was diverted to other uses fell by 123.



WISCONSIN'S RANK IN THE NATION'S AGRICULTURAL PRODUCTION, 2019

Commodity	Rank among states	Unit	Wisconsin (Thousands)	Percent of U.S.	United States (Thousands)	Leading state
DAIRY						
Milk production	2	Lbs.	30,601,000	14.0	218,382,000	California
Cheese, total (excluding cottage cheese)	1	Lbs.	3,363,863	25.6	13,137,243	Wisconsin
American	1	Lbs.	1,003,082	19.2	5,232,242	Wisconsin
Cheddar	1	Lbs.	712,595	19.1	3,736,742	Wisconsin
Hispanic	2	Lbs.	98,242	29.5	333,029	California
Italian	1	Lbs.	1,698,941	30.0	5,670,525	Wisconsin
Mozzarella	2	Lbs.	1,110,363	24.7	4,494,583	California
Dry whey, human food	1	Lbs.	285,831	29.7	961,792	Wisconsin
LIVESTOCK AND POULTRY						
Cattle and calves, all 1/	9	Head	3,450	3.7	94,413	Texas
Milk cows 1/	2	Head	1,260	13.5	9,335	California
Hogs and pigs, all 2/	18	Head	365	0.5	79,048	Iowa
Sheep 1/	19	Head	81	1.6	5,200	Texas
Milk goats 1/	1	Head	82	18.6	440	Wisconsin
Chickens 2/	15	Head	9,699	1.8	532,498	Iowa
Broilers	20	Head	58,500	0.6	9,177,200	Georgia
Eggs	15	Eggs	2,163,100	1.9	113,253,400	Iowa
Mink pelts	1	Pelts	1,016	37.6	2,704	Wisconsin
Honey	16	Lbs.	2,162	1.4	156,922	North Dakota
CROPS						
Corn for grain	9	Bu.	443,220	3.3	13,617,261	Iowa
Corn for silage	1	Tons	18,200	13.7	132,807	Wisconsin
Soybeans	13	Bu.	79,430	2.2	3,552,241	Illinois
Barley	19	Bu.	368	0.2	169,566	Idaho
Oats	2	Bu.	6,480	12.2	53,148	North Dakota
Wheat, winter	21	Bu.	9,600	0.7	1,304,003	Kansas
Forage (dry equivalent), all	7	Tons	6,135	7.4	83,214	Texas
Hay (dry only), all	18	Tons	2,784	2.2	128,864	Texas
Potatoes, all	3	Cwt.	28,220	6.7	422,890	Idaho
Cherries, tart	4	Lbs.	9,100	3.5	262,000	Michigan
Cranberries	1	Barrels	4,670	59.0	7,917	Wisconsin
Maple syrup	4	Gals.	270	6.5	4,180	Vermont
Cabbage, all	8	Cwt.	1,325	6.1	21,706	California
Carrots, all	3	Cwt.	1,601	3.2	49,803	California
Green peas, all	3	Cwt.	1,087	21.6	5,038	Washington
Snap beans, all	1	Cwt.	6,223	37.6	16,557	Wisconsin
Sweet corn, all	3	Cwt.	8,645	13.7	62,966	Washington

1/January 1, 2020 inventory. 2/December 1, 2019.

FARMS AND LAND IN FARMS, WISCONSIN, BY SALES CLASS, 2015-2019 1/

Year	\$1,000- \$9,999	\$10,000- \$99,999	\$100,000- \$249,999	\$250,000- \$499,999	\$500,000- \$999,999	\$1,000,000 & over	Total
NUMBER OF FARMS							
Number							
2015	29,600	20,400	7,100	4,600	2,700	2,200	66,600
2016	29,200	20,200	7,000	4,400	2,700	2,200	65,700
2017	28,700	20,100	7,000	4,300	2,550	2,150	64,800
2018	28,800	20,100	6,900	4,300	2,550	2,150	64,800
2019	29,000	20,200	7,000	4,250	2,400	2,050	64,900
LAND IN FARMS							
1,000 acres							
2015	1,900	2,900	2,000	2,000	2,000	3,600	14,400
2016	1,900	2,900	2,100	2,000	1,900	3,600	14,400
2017	1,800	2,900	2,100	2,000	1,900	3,600	14,300
2018	1,800	2,900	2,100	2,000	1,900	3,600	14,300
2019	1,900	2,900	2,100	2,100	1,800	3,500	14,300
AVERAGE FARM SIZE							
Acres							
2015	64	142	282	435	741	1,636	216
2016	65	144	300	455	704	1,636	219
2017	63	144	300	465	745	1,674	221
2018	63	144	304	465	745	1,674	221
2019	66	144	300	494	750	1,707	220

1/ A farm is defined as "any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year."

AGRICULTURAL CASH RENTS: WISCONSIN, 2016-2020

Year	Cropland rented for cash			Pasture rented for cash
	Irrigated	Non-irrigated	All	
Dollars per acre				
2016	243.00	131.00	137.00	35.00
2017	243.00	133.00	139.00	40.00
2018	238.00	134.00	140.00	40.00
2019	237.00	137.00	142.00	40.00
2020	245.00	138.00	146.00	35.00

AGRICULTURAL LAND VALUES: AVERAGE VALUE PER ACRE, WISCONSIN, 2016-2020 1/

Year	Farm real estate 2/	Cropland	Pasture
Dollars per acre			
2016	4,520	4,660	2,190
2017	4,870	4,870	2,200
2018	4,900	4,740	2,260
2019	4,950	4,850	2,310
2020	4,850	4,770	2,250

1/Value at which the land could be sold under current market conditions. 2/Value includes land and buildings.

FARM COMPUTER USAGE: WISCONSIN, 2009-2019

Year	Farms with desktop or laptop computer access	Farms using desktop or laptop computers for farm business	Farms using smart phone or tablet for farm business	Farms with Internet access
Percent				
2009	73	41	(NA)	67
2011	73	42	(NA)	67
2013	76	46	(NA)	72
2015	77	47	(NA)	72
2017	77	54	38	80
2019	77	54	45	82

(NA) Not available

Hired Workers: Annual Average Wage Rates, Great Lakes Region, 2015-2019 1/ 2/

Year	All hired	Field	Field and livestock
Dollars per hour			
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

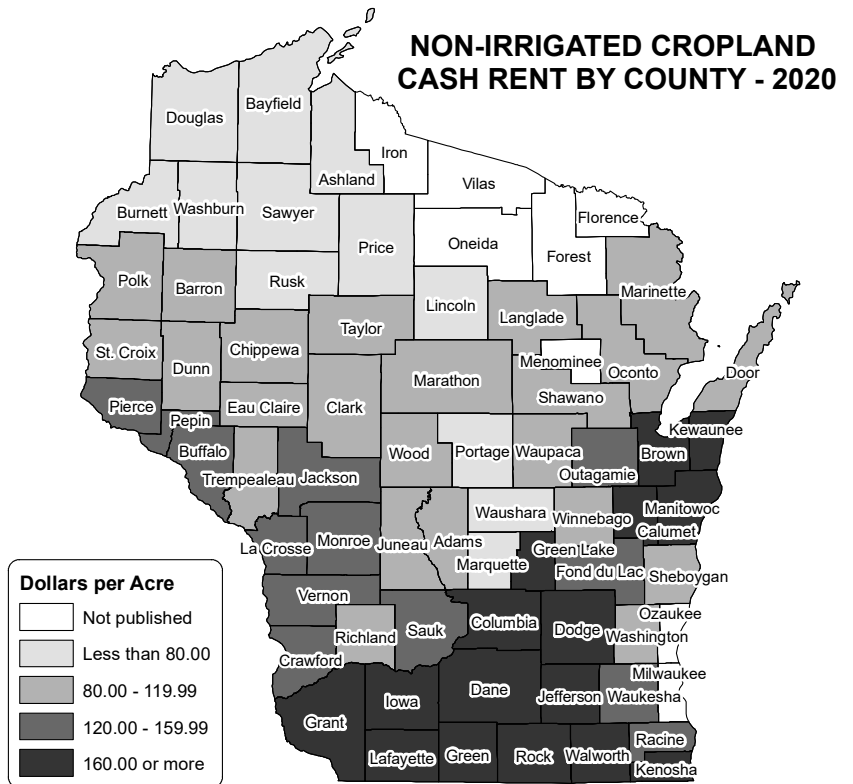
1/The annual average wage rates are averages of the published wage rates from each quarter's reference week weighted by the total hours worked during the week. 2/The Great Lakes Region consists of Wisconsin, Minnesota, and Michigan.

NON-IRRIGATED CROPLAND CASH RENT: VALUE, BY COUNTIES, WISCONSIN, 2019 & 2020 1/

County	2019	2020
Dollars per acre		
Barron	88.00	89.00
Bayfield	17.50	23.50
Burnett	60.00	67.00
Chippewa	105.00	98.00
Douglas	33.00	22.00
Polk	78.50	86.50
Rusk	65.50	65.50
Sawyer	50.00	44.00
Washburn	49.50	57.00
Combined counties	-	-
Northwest	81.50	79.00
Ashland	-	32.50
Clark	115.00	110.00
Iron	-	-
Lincoln	57.50	57.50
Marathon	93.00	90.50
Oneida	-	-
Price	33.50	34.50
Taylor	76.00	85.00
Vilas	-	-
Combined counties	34.50	43.00
North Central	95.50	90.50
Florence	-	-
Forest	-	-
Langlade	81.00	92.50
Marinette	96.00	92.00
Menominee	-	-
Oconto	113.00	118.00
Shawano	107.00	108.00
Combined counties	18.00	17.00
Northeast	100.00	105.00
Buffalo	114.00	122.00
Dunn	102.00	101.00
Eau Claire	87.50	88.00
Jackson	118.00	127.00
La Crosse	148.00	139.00
Monroe	101.00	124.00
Pepin	139.00	135.00
Pierce	138.00	142.00
St Croix	115.00	108.00
Trempealeau	111.00	99.00
West Central	116.00	116.00
Adams	82.00	91.50
Green Lake	158.00	160.00
Juneau	89.50	91.50
Marquette	79.00	71.50
Portage	62.00	62.50
Waupaca	90.50	89.50
Waushara	55.00	63.50
Wood	90.00	82.50
Central	91.00	88.50
Brown	-	183.00
Calumet	155.00	177.00
Door	84.00	107.00
Fond du Lac	154.00	156.00
Kewaunee	174.00	183.00
Manitowoc	-	166.00
Outagamie	145.00	142.00
Sheboygan	121.00	117.00
Winnebago	90.00	96.50
Combined counties	161.00	-
East Central	143.00	149.00

County	2019	2020
Dollars per acre		
Crawford	125.00	129.00
Grant	204.00	209.00
Iowa	174.00	175.00
Lafayette	215.00	217.00
Richland	118.00	116.00
Sauk	140.00	129.00
Vernon	142.00	134.00
Southwest	175.00	173.00
Columbia	195.00	176.00
Dane	174.00	182.00
Dodge	189.00	173.00
Green	201.00	198.00
Jefferson	169.00	176.00
Rock	217.00	195.00
South Central	190.00	183.00
Kenosha	153.00	164.00
Milwaukee	-	-
Ozaukee	-	-
Racine	128.00	134.00
Walworth	185.00	181.00
Washington	112.00	119.00
Waukesha	118.00	136.00
Combined counties	99.00	106.00
Southeast	136.00	149.00
Wisconsin	137.00	138.00

1/ Some counties were not published to avoid disclosure of individual operations. Unpublished data is included in "combined counties."



FARM PRODUCTION EXPENDITURES: WISCONSIN, 2016-2019

Expenditure - farm share	Total expenditures				Percent of production expenses			
	2016	2017	2018	2019	2016	2017	2018	2019
	Million dollars				Percent			
Total farm production expenditures 1/	10,910	11,425	10,050	10,550	100.0	100.0	100.0	100.0
Livestock, poultry & related expenses 2/	460	630	610	330	4.2	5.5	6.1	3.1
Feed	1,950	1,930	1,790	2,150	17.9	16.9	17.8	20.4
Farm services 3/	1,550	1,590	1,400	1,470	14.2	13.9	13.9	13.9
Rent 4/	590	580	560	590	5.4	5.1	5.6	5.6
Agricultural chemicals 5/	330	360	320	300	3.0	3.2	3.2	2.8
Fertilizer, lime & soil conditioners 5/	710	720	660	680	6.5	6.3	6.6	6.4
Interest	420	450	460	485	3.8	3.9	4.6	4.6
Taxes (real estate & property)	380	380	400	380	3.5	3.3	4.0	3.6
Labor	1,070	1,050	1,110	1,130	9.8	9.2	11.0	10.7
Fuels	330	370	395	380	3.0	3.2	3.9	3.6
Farm supplies & repairs 6/	840	790	700	730	7.7	6.9	7.0	6.9
Farm improvements & construction 7/	910	950	400	500	8.3	8.3	4.0	4.7
Tractors and self-propelled farm machinery	360	440	280	310	3.3	3.9	2.8	2.9
Other farm machinery	250	310	170	235	2.3	2.7	1.7	2.2
Seeds & plants 8/	650	700	720	760	6.0	6.1	7.2	7.2
Trucks & autos	100	150	50	100	0.9	1.3	0.5	0.9
Misc capital expenses 9/	10	25	25	20	0.1	0.2	0.2	0.2
	Average per farm 10/				Farms reporting 11/			
	2016	2017	2018	2019	2016	2017	2018	2019
	Dollars				Percent			
Total farm production expenditures 1/	158,806	176,312	155,093	162,558	100.0	100.0	100.0	100.0
Livestock, poultry & related expenses 2/	6,696	9,722	9,414	5,085	27.3	30.9	32.2	27.3
Feed	28,384	29,784	27,623	33,128	55.4	55.9	57.2	47.1
Farm services 3/	22,562	24,537	21,605	22,650	94.5	95.7	91.6	90.5
Rent 4/	8,588	8,951	8,642	9,091	33.9	33.9	31.7	34.7
Agricultural chemicals 5/	4,803	5,556	4,938	4,622	51.5	49.8	47.5	51.1
Fertilizer, lime & soil conditioners 5/	10,335	11,111	10,185	10,478	54.7	53.7	53.7	53.1
Interest	6,114	6,944	7,099	7,473	48.4	44.3	40.2	48.4
Taxes (real estate & property)	5,531	5,864	6,173	5,855	100.0	100.0	100.0	99.9
Labor	15,575	16,204	17,130	17,411	22.6	23.7	23.4	23.1
Fuels	4,803	5,710	6,096	5,855	83.5	85.0	80.1	84.8
Farm supplies & repairs 6/	12,227	12,191	10,802	11,248	87.4	86.0	79.8	85.2
Farm improvements & construction 7/	13,246	14,660	6,173	7,704	61.4	58.1	52.1	56.8
Tractors and self-propelled farm machinery	5,240	6,790	4,321	4,777	11.0	18.3	12.2	14.9
Other farm machinery	3,639	4,784	2,623	3,621	23.3	23.5	25.7	23.5
Seeds & plants 8/	9,461	10,802	11,111	11,710	56.7	55.4	56.2	68.0
Trucks & autos	1,456	2,315	772	1,541	11.0	14.7	8.9	14.0
Misc capital expenses 9/	146	386	386	308	1.6	6.3	7.3	5.0

1/Includes landlord and contractor share of farm production expenses. 2/Includes purchases and leasing of livestock and poultry. 3/Includes all crop custom work, veterinary custom services, transportation costs, marketing charges, insurance, leasing of machinery and equipment, general and miscellaneous business expenses, and utilities. 4/Includes public and private grazing fees. 5/Includes material and application costs. 6/Includes bedding/litter, marketing containers, power farm-shop equipment, oils and lubricants, temporary fencing, miscellaneous non-capital equipment and supplies, repairs and maintenance of equipment not depreciated, and other small, non-capital equipment. 7/Includes all expenditures related to new construction or repairs of buildings, fences, operator dwelling (if owned by operation), and any improvements to physical structures of the land. 8/Excludes bedding plants, nursery stock, and seed purchased for resale. Includes seed treatment. 9/Includes any capital expense not recorded in specific items on the questionnaires. 10/Total expenditures divided by total number of farms. Items may not sum to total due to rounding. 11/Number of farms reporting item divided by total number of farms.

FARM PRODUCTION EXPENDITURES: UNITED STATES 1/, 2016-2019

Expenditure - farm share	Total expenditures				Percent of production expenses			
	2016	2017	2018	2019	2016	2017	2018	2019
	Million dollars				Percent			
Total farm production expenditures 2/	346,900	357,800	354,000	357,800	100.0	100.0	100.0	100.0
Livestock, poultry & related expenses 3/	40,000	41,600	46,300	42,800	11.5	11.6	13.1	12.0
Feed	55,600	54,500	53,800	59,400	16.0	15.2	15.2	16.6
Farm services 4/	41,700	43,100	44,100	42,800	12.0	12.0	12.5	12.0
Rent 5/	29,800	29,700	28,800	29,700	8.6	8.3	8.1	8.3
Agricultural chemicals 6/	15,200	15,700	15,400	15,500	4.4	4.4	4.4	4.3
Fertilizer, lime & soil conditioners 6/	23,500	22,000	23,200	22,300	6.8	6.1	6.6	6.2
Interest	9,100	9,700	9,800	10,500	2.6	2.7	2.8	2.9
Taxes (real estate & property)	11,900	12,700	12,800	13,400	3.4	3.5	3.6	3.7
Labor	34,100	36,000	33,900	34,800	9.8	10.1	9.6	9.7
Fuels	11,300	11,900	12,300	12,300	3.3	3.3	3.5	3.4
Farm supplies & repairs 7/	17,600	18,000	17,200	17,600	5.1	5.0	4.9	4.9
Farm improvements & construction 8/	14,500	16,200	12,700	13,500	4.2	4.5	3.6	3.8
Tractors and self-propelled farm machinery	10,600	12,500	11,300	11,900	3.1	3.5	3.2	3.3
Other farm machinery	5,000	5,700	5,200	5,100	1.4	1.6	1.5	1.4
Seeds & plants 9/	21,800	22,500	21,900	21,200	6.3	6.3	6.2	5.9
Trucks & autos	4,400	5,400	4,610	4,430	1.3	1.5	1.3	1.2
Misc capital expenses 10/	800	600	690	570	0.2	0.2	0.2	0.2
	Average per farm 11/				Farms reporting 12/			
	2016	2017	2018	2019	2016	2017	2018	2019
	Dollars				Percent			
Total farm production expenditures 2/	169,035	175,935	175,169	177,564	100.0	100.0	100.0	100.0
Livestock, poultry & related expenses 3/	19,491	20,455	22,911	21,240	25.7	27.4	25.1	24.7
Feed	27,092	26,798	26,622	29,478	57.3	57.0	55.8	53.0
Farm services 4/	20,319	21,193	21,822	21,240	91.1	91.1	92.7	90.0
Rent 5/	14,521	14,604	14,251	14,739	30.0	26.1	27.3	28.0
Agricultural chemicals 6/	7,407	7,720	7,620	7,692	45.4	39.6	45.4	41.8
Fertilizer, lime & soil conditioners 6/	11,451	10,818	11,480	11,067	50.4	46.7	50.2	48.6
Interest	4,434	4,770	4,849	5,211	32.0	31.9	31.8	29.8
Taxes (real estate & property)	5,799	6,245	6,334	6,650	99.5	99.6	99.6	99.6
Labor	16,616	17,702	16,775	17,270	25.8	23.2	23.1	23.0
Fuels	5,506	5,851	6,086	6,104	83.6	84.1	84.6	81.5
Farm supplies & repairs 7/	8,576	8,851	8,511	8,734	80.4	80.8	81.6	77.8
Farm improvements & construction 8/	7,065	7,966	6,284	6,700	48.8	49.2	44.5	44.5
Tractors and self-propelled farm machinery	5,165	6,146	5,592	5,906	13.0	13.2	13.0	13.0
Other farm machinery	2,436	2,803	2,573	2,531	15.1	14.8	14.9	13.3
Seeds & plants 9/	10,623	11,064	10,837	10,521	36.3	37.2	38.4	37.2
Trucks & autos	2,144	2,655	2,281	2,198	11.6	13.7	12.2	11.0
Misc capital expenses 10/	390	295	341	283	5.2	4.7	4.8	4.3

1/ Excluding Alaska and Hawaii. 2/ Includes landlord and contractor share of farm production expenses. 3/ Includes purchases and leasing of livestock and poultry. 4/ Includes all crop custom work, veterinary custom services, transportation costs, marketing charges, insurance, leasing of machinery and equipment, general and miscellaneous business expenses, and utilities. 5/ Includes public and private grazing fees. 6/ Includes material and application costs. 7/ Includes bedding/litter, marketing containers, power farm-shop equipment, oils and lubricants, temporary fencing, miscellaneous non-capital equipment and supplies, repairs and maintenance of equipment not depreciated, and other small, non-capital equipment. 8/ Includes all expenditures related to new construction or repairs of buildings, fences, operator dwelling (if owned by operation), and any improvements to physical structures of the land. 9/ Excludes bedding plants, nursery stock, and seed purchased for resale. Includes seed treatment. 10/ Includes any capital expense not recorded in specific items on the questionnaires. 11/ Total expenditures divided by total number of farms. Items may not sum to total due to rounding. 12/ Number of farms reporting item divided by total number of farms.

FARM INCOME INDICATIONS: WISCONSIN, 2015-2019 1/

Commodity	2015	2016	2017	2018	2019
	1,000 dollars				
Value of crop production	3,289,689	3,560,163	3,233,167	3,388,945	2,999,144
Crop cash receipts	3,370,775	3,572,887	3,490,845	3,613,574	3,430,629
Feed crops	1,467,082	1,396,351	1,410,534	1,587,319	1,552,869
Food grains	70,829	72,497	62,624	67,956	54,853
Fruits and nuts	176,800	203,242	184,547	156,787	137,439
Oil crops	725,898	983,902	889,951	876,156	731,152
Vegetables and melons	475,207	449,273	462,438	432,797	445,216
All other crops	454,958	467,622	480,751	492,559	509,100
Home consumption	3,082	2,635	6,086	5,883	6,854
Inventory adjustment 2/	-84,167	-15,358	-263,764	-230,511	-438,339
Value of animals and products production	7,936,905	7,246,744	7,787,646	7,307,118	7,927,985
Animals and products cash receipts	7,922,861	7,163,569	7,827,608	7,340,192	7,901,939
Dairy products, Milk	5,121,238	5,014,800	5,444,480	5,002,800	5,705,424
Meat animals	2,234,309	1,737,302	1,968,757	1,875,008	1,812,338
Miscellaneous livestock	197,681	165,696	139,116	121,821	118,628
Poultry and eggs	369,633	245,772	275,255	340,563	265,549
Home consumption	14,764	14,730	17,587	18,395	18,195
Inventory adjustment 2/	-720	68,445	-57,549	-51,469	7,850
Farm-related income	1,755,814	1,381,192	1,595,508	1,306,692	1,518,726
Forest products sold	20,631	28,885	29,760	33,512	23,468
Gross imputed rental value of farm dwellings	670,126	688,550	690,857	668,350	696,099
Machine hire and customwork	302,921	141,301	204,843	117,792	169,730
Other farm income	762,136	522,456	670,048	487,038	629,429
Total commodity insurance indemnities	238,632	84,169	167,244	133,072	294,650
Federal commodity insurance indemnities	206,318	42,648	80,491	91,266	242,057
Net cash rent received by operator landlords 3/	96,632	103,033	81,990	52,447	64,403
Value of agricultural sector production	12,982,408	12,188,099	12,616,320	12,002,756	12,445,854
Intermediate product expenses 4/	6,889,776	6,904,954	7,157,586	6,571,586	6,963,664
Farm origin	2,739,633	2,778,350	3,011,324	2,756,214	3,161,121
Feed purchases	1,880,000	1,950,000	1,930,000	1,790,000	2,150,000
Livestock and poultry purchases	189,633	178,350	381,324	246,214	251,121
Seed purchases	670,000	650,000	700,000	720,000	760,000
Manufactured inputs	1,709,436	1,642,279	1,706,381	1,611,481	1,588,626
Electricity	208,796	237,000	230,503	195,332	204,894
Fertilizer, lime, and soil conditioners	780,000	710,000	720,000	660,000	680,000
Pesticides	320,000	330,000	360,000	320,000	300,000
Fuel and oils	400,640	365,279	395,878	436,149	403,732
Other intermediate expenses 4/	2,440,707	2,484,326	2,439,880	2,203,891	2,213,917
Machine hire and custom work	233,943	210,167	209,187	165,642	192,217
Marketing, storage, and transportation	357,763	347,064	368,141	382,425	370,524
Repair and maintenance 4/	675,609	745,287	690,853	572,273	578,377
Miscellaneous expenses 4/	1,173,392	1,181,808	1,171,699	1,083,551	1,072,799
Total insurance premiums 5/	329,114	310,241	309,583	302,645	302,438
Federal commodity insurance premiums	88,080	76,944	81,227	77,412	89,327
Irrigation	517	821	672	2,241	2,342
Contract labor	26,761	22,903	34,138	23,320	48,193
Net government transactions	-157,862	-112,004	-261,816	-111,767	106,465
Direct government payments	305,627	285,304	134,422	300,846	501,461
Property taxes and fees 4/	463,489	397,308	396,238	412,614	394,997
Motor vehicle registration and licensing fees	13,489	17,308	16,238	12,614	14,997
Gross value added	5,908,009	5,148,238	5,162,781	5,296,082	5,540,462
Capital consumption 4/	1,379,240	1,423,131	1,251,263	1,073,356	999,138
Net value added	4,528,770	3,725,107	3,911,518	4,222,726	4,541,323
Factor payments to stakeholders	1,834,318	2,092,065	2,069,246	2,117,561	2,169,779
Hired labor and non-cash employee compensation	853,239	1,047,097	1,015,862	1,086,680	1,081,807
Net rent paid to operator landlords	98,410	105,531	86,122	54,135	70,317
Net rent paid to nonoperator landlords	230,767	247,465	201,952	126,945	164,890
Total interest expenses 4/	651,902	691,972	765,310	849,802	852,765
Net farm income	2,694,452	1,633,042	1,842,272	2,105,164	2,371,544

1/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 operators' 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. 2/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. 3/ Share rent income is included in cash receipts. 4/ Including expenses associated with operator dwellings. 5/ Includes federal and private crop and livestock insurance premiums as well as casualty, hail, motor vehicle and all other insurance premiums. Source: Economic Research Service, USDA

CASH RECEIPTS FROM FARM MARKETINGS, BY COMMODITIES, WISCONSIN, 2015-2019 1/

Commodity	2015		2016		2017		2018		2019	
	1,000 dollars	% of total	1,000 dollars	% of total	1,000 dollars	% of total	1,000 dollars	% of total	1,000 dollars	% of total
All commodities	11,293,635		10,736,456		11,318,453		10,953,765		11,332,568	
Animals and products	7,922,861	70.2	7,163,569	66.7	7,827,608	69.2	7,340,192	67.0	7,901,939	69.7
Meat animals	2,234,309	19.8	1,737,302	16.2	1,968,757	17.4	1,875,008	17.1	1,812,338	16.0
Cattle and calves	2,128,331	18.8	1,639,375	15.3	1,846,035	16.3	1,754,534	16.0	1,662,302	14.7
Hogs	105,978	0.9	97,927	0.9	122,722	1.1	120,474	1.1	150,036	1.3
Dairy products, Milk	5,121,238	45.3	5,014,800	46.7	5,444,480	48.1	5,002,800	45.7	5,705,424	50.3
Poultry and eggs	369,633	3.3	245,772	2.3	275,255	2.4	340,563	3.1	265,549	2.3
Broilers	121,803	1.1	108,602	1.0	122,944	1.1	127,899	1.2	110,905	1.0
Chicken eggs	188,910	1.7	79,493	0.7	108,619	1.0	176,103	1.6	113,111	1.0
Farm chickens	528	*	353	*	166	*	262	*	219	*
Turkeys	58,392	0.5	57,323	0.5	43,525	0.4	36,299	0.3	41,314	0.4
Misc. animals and products	197,681	1.8	165,696	1.5	139,116	1.2	121,821	1.1	118,628	1.0
Trout	1,462	*	1,558	*	1,694	*	1,493	*	1,525	*
Honey	8,466	0.1	8,939	0.1	8,370	0.1	6,770	0.1	6,464	0.1
Mohair	18	*	17	*	17	*	18	*	21	*
Other animals and products	187,461	1.7	154,944	1.4	128,820	1.1	113,342	1.0	110,430	1.0
Mink pelts	42,132	0.4	39,812	0.4	40,908	0.4	27,414	0.3	22,255	0.2
Wool	274	*	238	*	215	*	198	*	187	*
Crops	3,370,775	29.8	3,572,887	33.3	3,490,845	30.8	3,613,574	33.0	3,430,629	30.3
Food grains	70,829	0.6	72,497	0.7	62,624	0.6	67,956	0.6	54,853	0.5
Rye	5,493	*	5,731	0.1	6,864	0.1	8,379	0.1	6,570	0.1
Wheat	65,336	0.6	66,765	0.6	55,760	0.5	59,576	0.5	48,283	0.4
Feed crops	1,467,082	13.0	1,396,351	13.0	1,410,534	12.5	1,587,319	14.5	1,552,869	13.7
Barley	1,033	*	(NA)	(NA)	(NA)	(NA)	294	*	647	*
Corn	1,343,143	11.9	1,305,917	12.2	1,308,075	11.6	1,465,229	13.4	1,407,436	12.4
Hay	109,063	1.0	84,447	0.8	95,356	0.8	112,838	1.0	134,077	1.2
Oats	13,842	0.1	5,987	0.1	7,103	0.1	8,958	0.1	10,708	0.1
Oil crops	725,898	6.4	983,902	9.2	889,951	7.9	876,156	8.0	731,152	6.5
Soybeans	725,898	6.4	983,902	9.2	889,951	7.9	876,156	8.0	731,152	6.5
Vegetables and melons	475,207	4.2	449,273	4.2	462,438	4.1	432,797	4.0	445,216	3.9
Potatoes, Fall	267,796	2.4	298,905	2.8	310,834	2.7	283,795	2.6	283,488	2.5
Beans, Green lima, Processing	1,651	*	3,182	*	3,684	*	3,196	*	(NA)	(NA)
Beans, Snap 2/	66,472	0.6	45,634	0.4	40,115	0.4	47,877	0.4	42,254	0.4
Cabbage 3/	15,480	0.1	13,535	0.1	21,569	0.2	14,912	0.1	21,337	0.2
Carrots 2/	9,652	0.1	10,588	0.1	8,820	0.1	7,092	0.1	24,096	0.2
Corn, Sweet	57,061	0.5	48,958	0.5	44,863	0.4	40,181	0.4	33,470	0.3
Corn, Sweet, Fresh	13,976	0.1	15,960	0.1	12,499	0.1	8,737	0.1	7,655	0.1
Corn, Sweet, Processing	43,085	0.4	32,998	0.3	32,364	0.3	31,444	0.3	25,815	0.2
Cucumbers 2/	9,538	0.1	9,210	0.1	7,168	0.1	21,141	0.2	16,431	0.1
Pumpkins	(NA)	(NA)	6,254	0.1	11,023	0.1	2,791	*	12,869	0.1
Peas, Green 2/	27,110	0.2	13,007	0.1	14,363	0.1	11,811	0.1	11,272	0.1
Fruits and nuts	176,800	1.6	203,242	1.9	184,547	1.6	156,787	1.4	137,439	1.2
Apples	27,825	0.2	21,819	0.2	26,297	0.2	(NA)	(NA)	(NA)	(NA)
Cherries, Tart	3,049	*	4,076	*	2,109	*	1,928	*	934	*
Cranberries	140,146	1.2	177,347	1.7	156,141	1.4	154,859	1.4	136,505	1.2
All other crops	454,958	4.0	467,622	4.4	480,751	4.2	492,559	4.5	509,100	4.5
Maple products	7,117	0.1	7,873	0.1	6,500	0.1	7,290	0.1	8,775	0.1
Peppermint oil	2,463	*	4,407	*	3,774	*	3,565	*	(NA)	(NA)
Floriculture	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	86,001	0.8	86,001	0.8
Mushrooms	2,729	*	2,693	*	2,738	*	2,527	*	(NA)	(NA)
Miscellaneous crops	441,525	3.9	452,649	4.2	467,739	4.1	393,176	3.6	414,324	3.7

* = Less than .05 percent of all commodities. (NA) = Not available. 1/USDA estimates and publishes individual cash receipt values only for major commodities. The U.S. receipts for individual commodities may understate the value of sales for some commodities, with the balance included in the appropriate category labeled "other" or "miscellaneous." The degree of estimation error in some of the minor commodities can be substantial. Percents of total may not add due to machine rounding. 2/Estimates for 2016 and earlier include processing only. Estimates for 2017 and later include both fresh market and processing. 3/Estimates for 2016 and earlier include fresh market only. Estimates for 2017 and later include both processing and fresh market. Source: Economic Research Service, USDA.

AGRICULTURAL LAND SALES: WISCONSIN, 2015-2019 1/

Year	Agricultural land continuing in agricultural use			Agricultural land being diverted to other uses			Total of all agricultural land		
	Number of transactions	Acres sold	Dollars per acre	Number of transactions	Acres sold	Dollars per acre	Number of transactions	Acres sold	Dollars per acre
LAND WITHOUT BUILDINGS AND IMPROVEMENTS									
2015	854	49,760	5,131	58	2,266	6,057	912	52,026	5,171
2016	817	45,413	5,221	61	1,720	7,558	878	47,133	5,306
2017	807	42,621	4,960	94	4,222	10,794	901	46,843	5,485
2018	964	51,421	5,587	106	3,252	13,280	1,070	54,673	6,045
2019	882	48,840	5,269	18	626	5,942	900	49,466	5,278
LAND WITH BUILDINGS AND IMPROVEMENTS									
2015	603	43,851	5,669	57	2,068	8,138	660	45,919	5,780
2016	646	52,604	5,708	37	1,507	6,544	683	54,111	5,732
2017	571	41,997	5,937	55	2,032	8,373	626	44,029	6,050
2018	540	38,161	6,128	53	2,217	10,491	593	40,378	6,368
2019	552	41,851	6,426	18	916	6,493	570	42,767	6,428
TOTAL									
2015	1,457	93,611	5,383	115	4,334	7,050	1,572	97,945	5,457
2016	1,463	98,017	5,483	98	3,227	7,085	1,561	101,244	5,534
2017	1,378	84,618	5,445	149	6,254	10,007	1,527	90,872	5,759
2018	1,504	89,582	5,818	159	5,469	12,150	1,663	95,051	6,182
2019	1,434	90,691	5,803	36	1,542	6,269	1,470	92,233	5,811

1/ Land sales figures reported in these tables include only averages of 'arm's length' transactions classified as predominately for agricultural use reported to and reviewed by the Wisconsin Department of Revenue, Bureau of Equalization. Sales made under other than normal market conditions (such as family sales or foreclosures) are not included in this report. Sales are reviewed by the Wisconsin Department of Revenue, Bureau of Equalization. With each sale of a parcel of land, the buyer is required to file a Wisconsin Real Estate Transfer Return, documenting the parcel size, sale price, present use, and intended use of the property. State appraisers inspect the site and verify the transfer return. The sales data in this report are a summary of the Wisconsin Real Estate Transfer Returns. Specifics on land sales transactions within a certain county can be obtained by contacting the Department of Revenue directly or at www.revenue.wi.gov/retr. This report was compiled in cooperation with the Wisconsin Department of Revenue, Bureau of Equalization.

AGRICULTURAL LAND SALES: LAND WITHOUT BUILDINGS AND IMPROVEMENTS, WISCONSIN, 2019 1/

County	Agricultural land continuing in agricultural use			Agricultural land being diverted to other uses			Total of all agricultural land			Range for land continuing in ag use	
	Number of transactions	Acres sold	Dollars per acre	Number of transactions	Acres sold	Dollars per acre	Number of transactions	Acres sold	Dollars per acre	Lowest price	Highest price
Adams	2	42	3,214	1	7	2,557	3	49	3,120	2,000	3,700
Ashland	4	142	1,289	-	-	-	4	142	1,289	953	1,451
Barron	24	973	2,836	-	-	-	24	973	2,836	1,154	5,750
Bayfield	4	175	1,131	-	-	-	4	175	1,131	1,050	1,229
Brown	14	761	9,996	-	-	-	14	761	9,996	5,927	14,055
Buffalo	3	204	3,951	-	-	-	3	204	3,951	3,700	4,050
Burnett	6	234	1,870	-	-	-	6	234	1,870	1,457	2,250
Calumet	16	888	9,558	-	-	-	16	888	9,558	3,300	15,000
Chippewa	23	1,508	3,840	1	60	5,050	24	1,568	3,886	1,700	15,400
Clark	18	1,154	3,939	-	-	-	18	1,154	3,939	2,600	6,000
Columbia	11	716	7,014	1	23	4,200	12	739	6,926	4,575	11,015
Crawford	8	486	3,724	-	-	-	8	486	3,724	3,100	4,350
Dane	28	1,097	11,513	1	11	14,000	29	1,108	11,538	5,200	22,251
Dodge	19	1,050	6,474	-	-	-	19	1,050	6,474	4,000	10,750
Door	6	315	4,248	1	22	1,000	7	337	4,036	3,000	6,300
Douglas	5	485	1,116	-	-	-	5	485	1,116	949	1,875
Dunn	36	2,267	3,368	-	-	-	36	2,267	3,368	1,613	4,950
Eau Claire	23	1,539	4,619	-	-	-	23	1,539	4,619	3,100	9,075
Florence	-	-	-	-	-	-	-	-	-	-	-
Fond du Lac	29	1,701	6,420	1	12	6,600	30	1,713	6,421	2,800	10,000
Forest	3	145	1,619	-	-	-	3	145	1,619	1,500	1,692
Grant	31	2,250	5,563	-	-	-	31	2,250	5,563	2,800	13,100
Green	18	1,339	5,545	-	-	-	18	1,339	5,545	2,800	12,000
Green Lake	6	392	9,082	-	-	-	6	392	9,082	6,100	11,000

AGRICULTURAL LAND SALES: LAND WITHOUT BUILDINGS AND IMPROVEMENTS, WISCONSIN, 2019 1/

County	Agricultural land continuing in agricultural use			Agricultural land being diverted to other uses			Total of all agricultural land			Range for land continuing in ag use	
	Number of transactions	Acres sold	Dollars per acre	Number of transactions	Acres sold	Dollars per acre	Number of transactions	Acres sold	Dollars per acre	Lowest price	Highest price
Iowa	22	1,305	6,180	-	-	-	22	1,305	6,180	3,500	10,600
Iron	-	-	-	-	-	-	-	-	-	-	-
Jackson	13	624	3,487	-	-	-	13	624	3,487	1,855	5,320
Jefferson	14	797	6,686	-	-	-	14	797	6,686	5,051	15,000
Juneau	6	324	2,553	-	-	-	6	324	2,553	937	3,800
Kenosha	7	182	10,977	-	-	-	7	182	10,977	8,000	13,100
Kewaunee	8	444	5,636	-	-	-	8	444	5,636	4,000	6,776
La Crosse	12	648	5,343	-	-	-	12	648	5,343	3,205	7,396
Lafayette	20	1,119	7,469	-	-	-	20	1,119	7,469	3,100	12,000
Langlade	7	434	4,504	-	-	-	7	434	4,504	2,000	7,500
Lincoln	7	137	2,326	-	-	-	7	137	2,326	1,550	7,273
Manitowoc	15	628	6,743	1	133	7,500	16	761	6,875	4,800	8,700
Marathon	48	2,458	3,922	1	5	1,500	49	2,463	3,917	1,421	6,100
Marinette	7	238	2,615	-	-	-	7	238	2,615	1,450	4,800
Marquette	8	307	3,722	-	-	-	8	307	3,722	2,100	6,450
Milwaukee	-	-	-	-	-	-	-	-	-	-	-
Monroe	17	840	3,765	-	-	-	17	840	3,765	3,040	4,540
Oconto	6	251	3,167	-	-	-	6	251	3,167	2,550	5,000
Oneida	-	-	-	-	-	-	-	-	-	-	-
Outagamie	12	1,090	7,319	1	26	6,000	13	1,116	7,288	2,867	9,300
Ozaukee	4	212	5,489	-	-	-	4	212	5,489	1,000	8,000
Pepin	6	456	4,332	-	-	-	6	456	4,332	2,931	4,860
Pierce	10	583	4,734	-	-	-	10	583	4,734	3,000	7,070
Polk	18	771	3,206	1	70	3,600	19	841	3,239	2,200	5,400
Portage	9	403	4,370	-	-	-	9	403	4,370	3,000	5,740
Price	-	-	-	-	-	-	-	-	-	-	-
Racine	10	439	8,803	-	-	-	10	439	8,803	6,311	14,632
Richland	10	466	4,291	-	-	-	10	466	4,291	2,500	6,500
Rock	17	715	7,457	-	-	-	17	715	7,457	4,800	10,000
Rusk	9	781	2,041	2	22	1,314	11	803	2,021	1,252	2,851
Sauk	19	924	5,225	-	-	-	19	924	5,225	3,700	8,500
Sawyer	2	60	1,380	-	-	-	2	60	1,380	1,300	1,553
Shawano	13	641	5,193	-	-	-	13	641	5,193	2,000	8,600
Sheboygan	19	852	6,267	-	-	-	19	852	6,267	3,755	8,700
St. Croix	16	1,349	4,255	-	-	-	16	1,349	4,255	2,851	6,000
Taylor	19	1,245	2,925	-	-	-	19	1,245	2,925	1,100	5,613
Trempealeau	16	951	3,570	-	-	-	16	951	3,570	2,279	4,510
Vernon	26	1,073	3,969	1	50	4,600	27	1,123	3,997	2,351	5,500
Vilas	-	-	-	-	-	-	-	-	-	-	-
Walworth	24	2,001	7,788	1	132	9,155	25	2,133	7,872	2,175	13,600
Washburn	6	225	1,783	-	-	-	6	225	1,783	1,540	2,010
Washington	9	309	8,069	-	-	-	9	309	8,069	6,226	15,000
Waukesha	6	146	15,684	-	-	-	6	146	15,684	11,250	35,400
Waupaca	21	1,241	4,633	2	31	2,942	23	1,272	4,591	3,125	6,800
Waushara	3	103	3,879	1	16	2,600	4	119	3,707	3,000	4,895
Winnebago	13	654	6,062	1	6	5,600	14	660	6,058	3,305	8,000
Wood	11	551	3,404	-	-	-	11	551	3,404	1,500	6,000
Wisconsin	882	48,840	5,269	18	626	5,942	900	49,466	5,278	937	35,400

1/ Land sales figures reported in these tables include only averages of 'arm's length' transactions classified as predominately for agricultural use reported to and reviewed by the Wisconsin Department of Revenue, Bureau of Equalization. Sales made under other than normal market conditions (such as family sales or foreclosures) are not included in this report. Sales are reviewed by the Wisconsin Department of Revenue, Bureau of Equalization. With each sale of a parcel of land, the buyer is required to file a Wisconsin Real Estate Transfer Return, documenting the parcel size, sale price, present use, and intended use of the property. State appraisers inspect the site and verify the transfer return. The sales data in this report are a summary of the Wisconsin Real Estate Transfer Returns. Specifics on land sales transactions within a certain county can be obtained by contacting the Department of Revenue directly or at www.revenue.wi.gov/retr. This report was compiled in cooperation with the Wisconsin Department of Revenue, Bureau of Equalization.

Crops

Soils were heavily saturated as the 2019 planting season opened, with topsoil moisture rated at 48 percent surplus on March 31. Below normal temperatures and frequent rain events kept soils wet throughout the cropping season, causing significant delays to fieldwork. Overwintered crops were damaged by ice storms in January and February, followed by spring flooding and multiple freeze-thaw cycles in March, April and May. Late snow and cold soil conditions in April and May delayed planting significantly and suppressed crop emergence and pasture growth. Spring tillage was only 93 percent complete on June 16, 15 days behind the previous year. Planting dragged on past crop insurance cut off dates in late June with many acres of prevented plantings reported. Poor quantity and quality of hay and pasture kept forage supplies tight through the spring and summer. July brought heat and more rain, with west central and southwest parts of the state receiving more precipitation than elsewhere. Wet conditions hampered haying and spraying, and there was some severe weather damage to crops midmonth. Drier conditions during August let farmers catch up on spraying, make hay and harvest small grains. However, below-normal temperatures meant crop development remained one to two weeks behind average. Topsoil moistures were 15 percent short to very short and only 6 percent surplus on August 25, the driest rating for the season. Frequent rains resumed during September, with southern and eastern portions of the state receiving more rain than the west and north. Deep mud and high grain moistures delayed the start of fall fieldwork and remained major problems throughout the rest of the year. The first frost held off until the week ending October 28, allowing late planted crops more time to mature. Only days later, temperatures plunged into the teens and a Halloween snowstorm dumped up to 8 inches of snow across southern Wisconsin. Below average temperatures in early November helped firm the ground, improving access to muddy fields but stalling fall tillage. Frequent snow and rain in November kept grain moistures unusually high, prompting some farmers to delay harvest even further. Delays to the harvest in turn delayed or prevented fall tillage, plantings and manure spreading. On November 24, fall tillage was only 39 percent complete, compared to 67 percent in 2018. This was the slowest fall tillage progress in the past 40 years of Crop Progress data.

The average temperature for June through September was 65.6 degrees, compared with 66.6 degrees in 2018 and a normal of 64.9 degrees. July and September temperatures averaged 2.1 and 3.3 degrees above normal, respectively. The remaining months of the growing season ranged from 1.2 to 3.6 degrees below normal.

The statewide precipitation total for April through September was 29.09 inches, compared to 27.35 inches the previous year and a normal of 22.43 inches. September was the month with the largest departure from normal at 3.30 inches above normal. District precipitation totals for April through September ranged from 26.97 inches to 34.43 inches; by contrast, district totals ranged from 21.81 to 36.66 inches in 2018.

Corn planted for all purposes totaled 3.80 million acres in 2019, down 100,000 acres from the previous year. Area harvested for grain was 2.67 million acres, 500,000 acres below 2018. Grain yield fell to 166 bushels per acre, down 6 bushels per acre from the previous year. Corn for grain production was 443 million

bushels, 19 percent below 2018. Producers harvested 1.04 million acres of corn for silage, an increase of 370,000 acres from 2018. Silage yields fell 2.5 tons per acre to 17.5 tons per acre. Total silage production was 18.2 million tons, up 36 percent from the previous year.

Soybean planted acreage fell 21 percent to 1.75 million acres. Harvested acres fell 490,000 to 1.69 million acres statewide. The average yield for soybeans in Wisconsin was 47.0 bushels per acre, 1.0 bushel per acre less than the previous year. Total production fell 24 percent to 79.4 million bushels.

Wisconsin produced 6.48 million bushels of oats in 2019, an 18 percent increase from 2018. Harvested acres rose 33 percent to 120,000 though yields fell 11 percent to 54.0 bushels per acre.

There were 195,000 acres of winter wheat planted in 2019, down 19 percent from 2018. Acres harvested fell 50,000 acres to 150,000 acres and yields fell 5 bushels per acre. This caused production to decrease 48 percent to 9.60 million bushels.

As of May 19, winter freeze damage to alfalfa was rated 25 percent severe, 18 percent moderate and 17 percent light. There was reportedly no damage to the remaining 40 percent of alfalfa, less than half of the 82 percent undamaged in the previous year. Winterkill damage was particularly bad in the North Central and Northwestern Districts, which reported 77 percent and 66 percent severe damage, respectively. Hay was slow to break dormancy with wet, cold spring conditions. Many reporters noted spring seeding of alfalfa to replace winterkilled stands, though wet conditions hampered planting and emergence. Tight feed supplies forced farmers to start their first cutting of hay before optimal maturity. All four cuttings of hay ran about two weeks behind the average this season. Though some hay was baled during dry weather in August, much of the hay crop was reportedly chopped and stored as haylage due to frequent rains. An early onset of cold weather combined with some unusually late fourth crop cuttings left some reporters concerned for hay stands' ability to overwinter. All hay condition was 49 percent good to excellent on average, compared to 80 percent good to excellent in 2018.

In 2019, potato acres planted and harvested were each up 1,000 with 68,000 acres harvested in total. The average yield was up 10 cwt per acre resulting in an overall production increase of 4 percent to 28.2 thousand cwt.

Wisconsin remained the top producer in the nation for snap beans, contributing 38 percent of the national production in 2019. The state also ranked third for total production of carrots, green peas and sweet corn.

There were 20,800 acres of cranberries harvested in 2019, up 100 acres from the previous year. Yields were down 16 percent to 224.4 barrels per acre, however, causing total production to fall 16 percent to 4.67 million barrels. Wisconsin remained the top cranberry producing state, with 59 percent of the national production. Tart cherry production was down 17 percent to 9.1 million pounds. Tart cherry bearing acres rose from 1,500 acres in 2018 to 1,600 acres in 2019.

CROP RECORDS IN WISCONSIN AGRICULTURE

Commodity	Unit	2019	Record high		Record low		Year estimate started
			Quantity	Year 1/	Quantity	Year 1/	
Corn for grain							
Harvested	Acres	2,670,000	3,500,000	1981	478,000	1927	1866
Yield	Bu.	166.0	178.0	2016	21.0	1883	1866
Production	Bu.	443,220,000	573,160,000	2016	13,862,000	1927	1866
Corn for silage							
Harvested	Acres	1,040,000	1,450,000	1988	570,000	1991	1919
Yield	Tons	17.5	21.0	2016	4.2	1936	1919
Production	Tons	18,200,000	18,915,000	2015	5,085,000	1920	1919
Soybeans							
Harvested	Acres	1,690,000	2,160,000	2018	1,000	1927	1924
Yield	Bu.	47.0	55.0	2016	9.0	1925	1924
Production	Bu.	79,430,000	107,250,000	2016	10,000	1927	1924
Barley							
Harvested	Acres	8,000	929,000	1935	8,000	2019	1866
Yield	Bu.	46.0	64.0	2000	20.5	1936	1866
Production	Bu.	368,000	25,548,000	1935	368,000	2019	1866
Oats							
Harvested	Acres	120,000	2,987,000	1945	85,000	2017	1866
Yield	Bu.	54.0	72.0	2015	22.0	1907	1866
Production	Bu.	6,480,000	156,221,000	1958	5,015,000	2017	1866
Wheat, all							
Harvested	Acres	150,000	2,050,000	1878	27,000	1973	1866
Yield	Bu.	64.0	79.0	2016	8.0	1876	1866
Production	Bu.	9,600,000	26,250,000	1873	890,000	1973	1866
Forage, all (dry equivalent)							
Harvested	Acres	2,330,000	4,400,000	1989	2,190,000	2017	1981
Yield	Tons	2.63	4.91	1986	2.19	1988	1981
Production	Tons	6,135,000	18,402,000	1986	6,135,000	2019	1981
Hay, all (dry only)							
Harvested	Acres	1,300,000	4,263,000	1944	1,300,000	2019	1909
Yield	Tons	2.14	3.49	1982	0.94	1934	1909
Production	Tons	2,784,000	12,770,000	1984	2,784,000	2019	1909
Potatoes, all							
Harvested	Acres	68,000	325,000	1922	45,500	1972	1866
Yield	Cwt.	415.0	460.0	2012	25.8	1894	1866
Production	Cwt.	28,220,000	34,000,000	1999	2,306,000	1870	1866
Cranberries							
Harvested	Acres	20,800	21,100	2016	1,200	1900	1900
Yield	Barrels	224.4	288.2	2016	7.5	1908	1900
Production	Barrels	4,670,000	6,130,000	2016	12,000	1908	1900
Sweet corn, processing							
Production	Tons	411,070	1,001,750	1994	5,500	1932	1918
Green peas, processing							
Production	Tons	54,271	177,550	1979	35,620	1932	1918
Snap beans, processing							
Production	Tons	294,037	365,934	2016	1,900	1921	1918
Maple syrup							
Production	Gal.	270,000	270,000	2019	50,000	2005	1992

1/These are the latest years that records were achieved. In some cases, these records were equaled in several earlier years.

**MONTHLY AND ANNUAL PRECIPITATION:
BY SELECTED STATIONS AND DISTRICTS, WISCONSIN, 2019**

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual		
													Total	Change from station normal 1/	
	Inches														
NORTHWEST															
Bloomer	0.36	3.17	1.51	3.48	6.09	2.87	7.75	2.06	3.79	4.94	1.37	2.52	39.91	8.36	
Gordon	0.48	2.23	0.92	4.39	5.49	3.51	4.57	2.70	7.21	4.85	0.99	4.03	41.37	9.46	
Spoooner	0.58	2.24	0.92	4.07	6.26	2.24	2.86	3.58	7.37	4.93	1.21	3.76	40.02	9.02	
District	0.52	2.74	1.12	3.51	5.58	3.29	4.93	3.19	6.47	4.53	1.66	3.04	40.58	8.74	
Normal	0.95	0.88	1.64	2.65	3.36	4.08	4.08	4.01	3.97	3.06	1.95	1.20	31.84		
NORTH CENTRAL															
Eagle River	0.99	5.05	1.05	3.30	5.10	1.68	2.84	5.05	5.96	4.45	2.05	3.94	41.46	11.81	
Rhineland	0.85	4.44	0.99	3.55	5.37	4.29	4.96	3.40	5.81	3.16	1.57	2.96	41.35	9.95	
Wausau	1.15	4.07	1.67	4.69	5.54	4.39	6.48	3.11	7.66	4.16	2.43	2.75	48.10	15.69	
District	0.92	3.94	1.32	4.01	5.35	3.52	5.25	3.34	6.30	3.76	2.01	3.39	43.11	11.01	
Normal	1.09	0.94	1.68	2.62	3.39	4.04	3.95	3.81	4.01	3.10	2.08	1.37	32.10		
NORTHEAST															
Florence	1.03	3.92	0.66	3.30	5.52	1.75	2.72	2.38	6.66	4.43	1.00	4.35	37.72	8.59	
Marinette	2.09	2.35	1.30	4.50	5.32	2.65	6.29	2.76	8.64	4.02	1.94	3.35	45.21	12.62	
Shawano	1.81	3.19	2.22	4.56	5.99	4.33	6.58	3.65	8.43	4.46	1.96	3.61	50.79	19.46	
District	1.46	3.52	1.41	4.20	5.49	3.25	5.22	3.29	7.15	4.37	1.67	3.57	44.60	13.90	
Normal	1.12	0.96	1.72	2.57	3.23	3.77	3.68	3.46	3.61	3.03	2.13	1.43	30.71		
WEST CENTRAL															
La Crosse	1.31	3.02	1.81	3.17	6.03	5.33	6.55	1.66	6.77	4.85	2.74	1.43	44.67	11.61	
Menomonie	0.49	3.61	1.65	4.33	8.54	2.16	5.35	3.03	6.07	6.18	1.81	2.47	45.69	14.44	
Mondovi	0.65	3.96	2.09	3.18	6.83	4.19	5.45	4.65	6.19	5.33	2.26	2.32	47.10	12.41	
District	0.92	3.43	1.61	3.64	6.25	4.54	6.23	3.54	6.33	5.23	2.20	2.10	46.02	12.58	
Normal	0.95	0.90	1.81	3.13	3.78	4.44	4.25	4.49	3.87	2.56	2.06	1.22	33.44		
CENTRAL															
Marshfield	1.06	3.70	1.60	4.51	5.63	3.57	7.18	3.38	8.62	4.22	1.63	3.41	48.51	15.79	
Montello	2.27	2.68	1.27	3.79	5.17	4.10	6.76	6.67	5.95	4.77	2.26	2.65	48.34	13.87	
Waupaca	2.06	2.82	2.23	3.63	5.09	4.28	4.53	2.16	7.47	3.18	2.42	2.92	42.79	9.30	
District	1.85	2.84	1.60	3.87	5.23	4.71	5.94	3.29	6.38	4.44	2.16	2.58	44.89	12.48	
Normal	1.01	1.00	1.76	3.00	3.60	4.35	4.04	4.03	3.61	2.54	2.12	1.34	32.41		
EAST CENTRAL															
Green Bay	1.92	3.13	1.75	3.82	4.91	4.74	3.50	5.54	9.37	4.42	3.04	2.49	48.63	19.11	
Oshkosh	2.40	2.35	1.41	3.35	4.46	5.11	5.44	3.78	6.05	4.90	2.03	2.73	44.01	12.42	
Sturgeon Bay	2.65	3.67	1.36	5.23	4.58	2.58	9.41	3.18	5.87	5.46	2.40	3.72	50.11	18.17	
District	2.10	2.59	1.46	3.73	4.59	4.06	4.27	4.38	6.97	5.55	2.49	2.65	44.84	13.55	
Normal	1.27	1.12	1.78	2.86	3.26	3.87	3.67	3.59	3.38	2.69	2.27	1.53	31.29		
SOUTHWEST															
Lancaster	2.90	2.23	0.98	2.35	5.64	4.67	6.34	3.18	18.57	5.64	2.09	2.19	56.78	21.41	
Reedsburg	3.05	3.21	1.33	4.26	6.25	3.58	10.70	4.78	5.60	6.69	2.37	2.03	53.85	16.95	
Viroqua	2.24	2.57	1.29	2.78	6.04	5.23	9.33	1.78	9.24	5.47	2.72	1.83	50.52	15.99	
District	2.39	2.62	1.21	3.74	5.83	4.42	6.77	3.28	10.39	5.92	2.25	1.69	50.51	15.01	
Normal	1.10	1.15	2.00	3.56	4.02	4.83	4.44	4.52	3.46	2.56	2.36	1.50	35.50		
SOUTH CENTRAL															
Brodhead	2.75	2.77	1.35	2.57	7.92	4.34	4.34	6.25	8.51	5.08	2.63	1.50	50.01	13.26	
Madison	2.56	2.94	0.92	3.22	6.17	5.16	5.77	2.85	6.80	5.85	2.63	1.52	46.39	11.91	
Portage	2.52	2.83	1.14	4.33	5.24	4.34	4.06	5.64	7.14	5.86	2.11	2.09	47.30	11.16	
Division	2.39	2.68	1.16	3.15	5.90	4.24	4.52	4.49	7.47	6.03	2.30	1.67	46.00	11.13	
Normal	1.23	1.31	2.02	3.37	3.71	4.63	4.09	4.18	3.50	2.69	2.43	1.70	34.87		
SOUTHEAST															
Hartford	2.97	1.72	1.04	4.43	4.45	5.32	4.04	5.38	6.00	7.64	2.60	2.04	47.63	14.74	
Kenosha	2.02	4.05	1.78	2.96	5.46	4.27	3.18	4.98	10.16	6.53	1.62	1.71	48.72	12.58	
Milwaukee	2.23	3.35	1.64	3.77	6.32	4.42	3.17	3.53	7.00	6.48	2.14	1.96	46.01	11.25	
District	2.22	3.04	1.18	3.19	5.86	4.11	4.05	4.11	7.24	6.20	1.93	1.89	45.02	10.72	
Normal	1.47	1.41	1.98	3.42	3.61	4.04	3.78	4.02	3.42	2.74	2.54	1.86	34.30		
STATE	1.43	3.12	1.34	3.72	5.56	3.91	5.33	3.54	7.03	4.88	2.03	2.66	44.55	11.85	
Normal	1.09	1.02	1.79	2.93	3.53	4.21	4.02	4.01	3.73	2.82	2.16	1.40	32.70		

1/ Normal 1981-2010. Source: Wisconsin State Climatology Office.

**AVERAGE MONTHLY AND ANNUAL TEMPERATURE:
BY SELECTED STATIONS AND DISTRICTS, WISCONSIN, 2019**

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	
													Average	Change from station normal 1/
Degrees F.														
NORTHWEST														
Bloomer	12.2	9.7	23.4	43.0	52.6	65.4	72.3	66.9	62.0	43.4	27.1	19.0	41.4	-2.2
Gordon	6.8	7.4	20.8	39.1	49.0	62.7	70.3	65.0	58.7	41.7	24.0	15.5	38.4	-2.6
Spoooner	9.7	8.2	22.2	41.1	51.4	64.9	71.0	65.8	60.8	43.5	25.9	17.7	40.2	-2.3
District	10.4	9.5	22.9	40.3	49.8	62.2	69.7	64.5	59.8	42.9	25.8	18.4	39.7	-1.9
Normal	11.6	16.6	28.3	42.4	54.1	63.2	68.0	65.9	57.1	44.7	30.4	16.3	41.6	
NORTH CENTRAL														
Eagle River	7.9	9.6	20.9	37.3	48.7	60.6	67.4	60.8	57.7	41.1	25.3	19.0	38.0	-3.8
Rhineland	8.9	7.9	20.7	37.8	48.5	61.4	68.6	62.4	58.3	42.3	24.9	19.6	38.4	-3.3
Wausau	12.3	13.2	24.9	41.8	52.3	63.8	71.1	65.3	61.7	43.7	27.9	21.5	41.6	-1.9
District	10.5	9.9	22.1	39.1	49.3	61.4	68.7	62.9	59.1	42.2	25.6	19.6	39.2	-1.9
Normal	12.3	16.7	27.5	41.6	53.4	62.5	66.8	64.9	56.4	44.1	30.6	16.9	41.1	
NORTHEAST														
Florence	8.1	9.3	22.1	37.8	47.9	59.8	68.1	61.7	58.1	42.9	24.7	19.3	38.3	-2.0
Marinette	16.1	14.8	26.2	40.2	50.5	62.8	71.1	66.5	61.9	48.0	31.6	25.8	43.0	-1.7
Shawano	13.5	12.4	24.9	41.7	51.7	63.9	71.8	65.7	62.0	45.9	29.1	22.7	42.1	-1.7
District	11.8	11.9	23.4	39.6	49.6	61.4	69.0	63.0	59.4	43.9	27.7	21.7	40.2	-1.8
Normal	14.1	18.2	28.4	42.0	53.4	62.9	67.2	65.4	57.0	44.8	32.0	18.9	42.0	
WEST CENTRAL														
La Crosse	15.6	16.0	30.2	48.5	57.7	69.4	77.1	71.9	69.1	49.0	32.4	27.2	47.0	-0.4
Menomonie	14.0	12.1	24.4	42.6	52.7	65.1	71.9	67.0	64.2	45.7	29.2	21.2	42.5	-1.5
Mondovi	14.7	15.2	28.3	47.2	56.0	67.7	74.0	69.1	67.0	46.9	30.4	23.2	45.0	0.0
District	13.4	12.4	26.0	44.1	53.6	65.6	72.5	67.4	64.2	45.4	28.8	22.5	43.0	-1.4
Normal	14.8	19.8	31.6	45.7	56.8	66.2	70.6	68.3	59.7	47.3	33.1	18.9	44.4	
CENTRAL														
Marshfield	12.6	11.3	25.2	41.8	52.1	63.7	71.7	66.0	61.5	44.5	27.6	21.6	41.6	-2.4
Montello	14.6	15.5	27.9	45.1	53.5	65.0	73.0	66.7	63.0	46.7	29.9	27.1	44.0	-1.4
Waupaca	13.5	13.6	26.2	43.0	52.8	64.7	73.0	67.0	62.5	45.7	28.9	24.0	42.9	-1.7
District	14.0	14.9	27.1	43.6	53.0	64.6	72.4	66.4	62.8	45.8	29.2	25.1	43.2	-1.3
Normal	16.1	20.8	31.6	45.2	56.3	65.7	69.9	67.8	59.4	47.1	34.0	20.3	44.5	
EAST CENTRAL														
Green Bay	15.9	18.7	29.1	44.3	54.3	64.9	73.2	67.9	64.3	47.4	31.0	26.0	44.8	0.5
Oshkosh	16.3	16.8	28.3	44.9	54.2	66.9	74.6	69.1	65.4	49.8	31.1	28.8	45.5	-0.9
Sturgeon Bay	18.3	18.9	28.9	33.4	57.5	63.8	69.5	69.2	61.6	44.8	29.9	27.7	43.6	-0.8
District	15.8	17.2	27.4	42.9	51.8	63.4	71.8	66.8	63.0	47.2	30.6	27.2	43.8	-1.0
Normal	17.8	21.6	31.5	44.1	54.8	64.8	69.4	67.8	59.8	47.7	35.3	22.4	44.8	
SOUTHWEST														
Lancaster	15.7	15.7	29.1	46.2	55.2	66.8	73.9	67.5	65.0	46.0	29.5	29.0	45.0	-0.7
Reedsburg	14.2	15.5	29.0	46.0	54.6	66.7	74.4	67.5	64.6	47.0	30.1	28.7	44.9	-2.2
Viroqua	12.6	13.0	26.7	43.5	52.3	64.2	71.5	65.9	62.3	43.9	26.9	24.8	42.0	-1.4
District	15.2	16.6	29.4	46.3	55.1	66.4	74.2	67.7	65.3	46.7	30.0	28.6	45.1	-1.1
Normal	17.8	22.8	34.1	46.9	57.7	67.3	71.4	69.3	61.1	48.9	35.6	21.9	46.2	
SOUTH CENTRAL														
Brodhead	16.8	18.5	30.9	46.7	55.4	67.4	75.2	68.8	66.1	49.3	30.1	30.6	46.3	-0.7
Madison	15.9	18.8	30.9	46.9	55.9	66.6	75.2	68.5	66.2	47.4	31.0	30.0	46.1	-0.4
Portage	15.8	17.2	30.8	45.9	53.7	66.2	74.2	67.8	64.6	47.7	30.4	29.1	45.3	-1.3
District	16.5	18.8	30.2	46.0	54.5	66.0	74.4	68.0	65.2	48.1	30.5	30.0	45.7	-0.9
Normal	18.8	23.4	34.1	46.8	57.7	67.4	71.5	69.4	61.3	49.2	36.5	23.0	46.6	
SOUTHEAST														
Hartford	15.4	17.8	29.2	44.0	52.6	64.1	72.6	66.7	63.3	47.2	28.6	28.3	44.2	-1.1
Kenosha	21.0	25.1	33.1	46.0	53.5	62.8	73.5	71.4	67.1	49.2	34.0	32.9	47.5	-0.5
Milwaukee	21.2	24.1	32.8	46.4	54.3	64.0	75.1	71.5	68.0	49.7	34.1	33.5	47.9	0.0
District	18.4	20.8	30.7	45.7	54.0	64.4	73.7	68.4	65.4	48.2	31.3	30.9	46.0	-0.9
Normal	20.2	24.4	34.3	46.1	56.6	66.6	71.2	69.6	61.7	49.7	37.4	24.5	46.9	
STATE	13.1	13.4	25.6	42.4	51.8	63.6	71.3	65.6	62.0	44.9	28.2	23.4	42.1	-1.5
Normal	15.0	19.6	30.5	44.0	55.3	64.7	69.1	67.1	58.7	46.5	33.1	19.4	43.6	

1/ Normal 1981-2010. Source: Wisconsin State Climatology Office.

FIELD CROP SUMMARY: ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2015-2019

Year	Planted	Harvested	Yield per acre	Production	Value	
					Per bushel	Total
	Acres		Bushels	1,000 bushels	Dollars	1,000 dollars
CORN FOR GRAIN 1/						
2015	4,000,000	3,000,000	164.0	492,000	3.46	1,702,320
2016	4,050,000	3,220,000	178.0	573,160	3.28	1,879,965
2017	3,900,000	2,930,000	174.0	509,820	3.30	1,682,406
2018	3,900,000	3,170,000	172.0	545,240	3.52	1,919,245
2019	3,800,000	2,670,000	166.0	443,220	3.70	1,665,888
SOYBEANS FOR BEANS						
2015	1,880,000	1,870,000	49.5	92,565	8.73	808,092
2016	1,960,000	1,950,000	55.0	107,250	9.36	1,003,860
2017	2,150,000	2,140,000	47.5	101,650	9.34	949,411
2018	2,220,000	2,180,000	48.0	104,640	8.49	888,394
2019	1,750,000	1,690,000	47.0	79,430	8.55	683,145
BARLEY						
2015	28,000	15,000	55.0	825	5.49	4,529
2016	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2017	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2018	25,000	10,000	45.0	450	4.00	1,800
2019	24,000	8,000	46.0	368	5.00	1,840
OATS						
2015	280,000	195,000	72.0	14,040	1.81	25,412
2016	210,000	100,000	66.0	6,600	1.86	12,276
2017	180,000	85,000	59.0	5,015	2.78	13,942
2018	200,000	90,000	61.0	5,490	2.77	15,207
2019	265,000	120,000	54.0	6,480	3.20	20,736
WINTER WHEAT						
2015	230,000	210,000	74.0	15,540	4.40	68,376
2016	270,000	250,000	79.0	19,750	3.51	69,323
2017	210,000	170,000	68.0	11,560	4.15	47,974
2018	240,000	200,000	71.0	14,200	4.55	64,610
2019	195,000	150,000	64.0	9,600	4.35	41,760

(NA) Not available. 1/Corn acres planted is for all purposes.

BIOTECHNOLOGY SOYBEAN VARIETIES AS A PERCENT OF ALL SOYBEANS PLANTED, WISCONSIN, 2016-2020

Year	Herbicide resistant 1/ Percent
2016	94
2017	92
2018	92
2019	91
2020	89

1/ Does not include conventionally bred herbicide resistant varieties.

BIOTECHNOLOGY CORN VARIETIES AS A PERCENT OF ALL CORN PLANTED, WISCONSIN, 2016-2020

Year	Insect resistant (Bt)	Herbicide resistant 1/	Stacked gene 2/	All biotech
2016	3	17	70	90
2017	2	14	71	87
2018	3	13	72	88
2019	3	14	72	89
2020	3	11	76	90

1/ Does not include conventionally bred herbicide resistant varieties. 2/ Stacked gene varieties contain biotech traits for both herbicide and insect resistance.

PRICES RECEIVED BY FARMERS FOR CROPS: BY MONTHS, WISCONSIN, 2015-2019

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Dollars per bushel												
CORN												
2015	3.74	3.75	3.72	3.73	3.48	3.48	3.78	3.67	3.58	3.57	3.42	3.41
2016	3.51	3.44	3.43	3.49	3.57	3.75	3.52	3.12	3.13	3.23	3.16	3.15
2017	3.27	3.36	3.42	3.39	3.35	3.42	3.45	3.32	3.25	3.26	3.12	3.13
2018	3.16	3.34	3.46	3.52	3.64	3.57	3.43	3.35	3.29	3.38	3.36	3.38
2019	3.42	3.46	3.54	3.46	3.51	3.89	3.98	3.89	3.69	3.76	3.52	3.56
SOYBEANS												
2015	10.20	10.00	9.72	9.63	9.40	9.44	9.79	9.57	8.62	8.56	8.36	8.44
2016	8.69	8.55	8.53	8.98	9.69	10.30	10.30	9.84	9.34	9.24	9.38	9.49
2017	9.55	9.86	9.75	9.33	9.34	9.19	9.41	9.34	9.27	9.22	9.40	9.43
2018	9.21	9.43	9.80	9.77	9.84	9.84	9.30	8.70	8.92	8.70	8.28	8.51
2019	8.48	8.48	8.61	8.23	7.92	8.22	8.31	8.25	8.17	8.53	8.39	8.48
OATS												
2015	3.30	3.58	3.29	3.03	2.93	2.82	2.22	1.79	1.91	1.82	1.89	1.90
2016	1.48	1.67	1.62	1.65	1.64	1.66	1.69	1.47	1.37	1.68	1.85	1.92
2017	2.54	2.64	2.43	2.55	2.57	2.97	2.57	2.34	2.60	2.88	2.99	2.59
2018	3.13	3.06	3.31	3.24	3.20	3.28	2.61	2.60	2.64	2.74	3.09	3.27
2019	3.24	3.02	2.92	3.40	3.55	3.51	3.07	3.03	3.07	3.57	3.45	2.87

GRAIN STOCKS: (ON-FARMS AND OFF-FARMS), BY QUARTER, WISCONSIN, 2015-2019

Year	March 1	June 1	September 1	December 1
1,000 bushels				
CORN				
2015	266,357	171,079	67,276	409,558
2016	303,233	190,562	72,250	443,570
2017	346,918	225,370	112,185	443,383
2018	325,921	226,252	106,955	435,959
2019	326,961	222,859	104,226	378,991
SOYBEANS				
2015	29,529	16,970	7,408	63,616
2016	38,693	22,612	5,733	66,949
2017	48,042	30,718	9,061	74,336
2018	55,434	40,271	15,124	91,014
2019	71,195	56,031	29,617	79,853

HAY STOCKS: WISCONSIN, 2016-2020

Year	Dec. 1	Percent of	May 1	Percent of
	stocks 1/	production 2/	stocks	production 2/
	1,000 tons	Percent	1,000 tons	Percent
2016	2,900	71	810	20
2017	3,200	82	820	21
2018	2,650	75	480	14
2019	1,750	59	330	11
2020	1,770	64	310	11

1/Refers to December 1 of previous year. 2/ Previous year's production.

NEW SEEDINGS OF ALFALFA AND ALFALFA MIXTURES: WISCONSIN, 2015-2019

Year	Acres seeded
	1,000 acres
2015	440
2016	320
2017	300
2018	310
2019	480

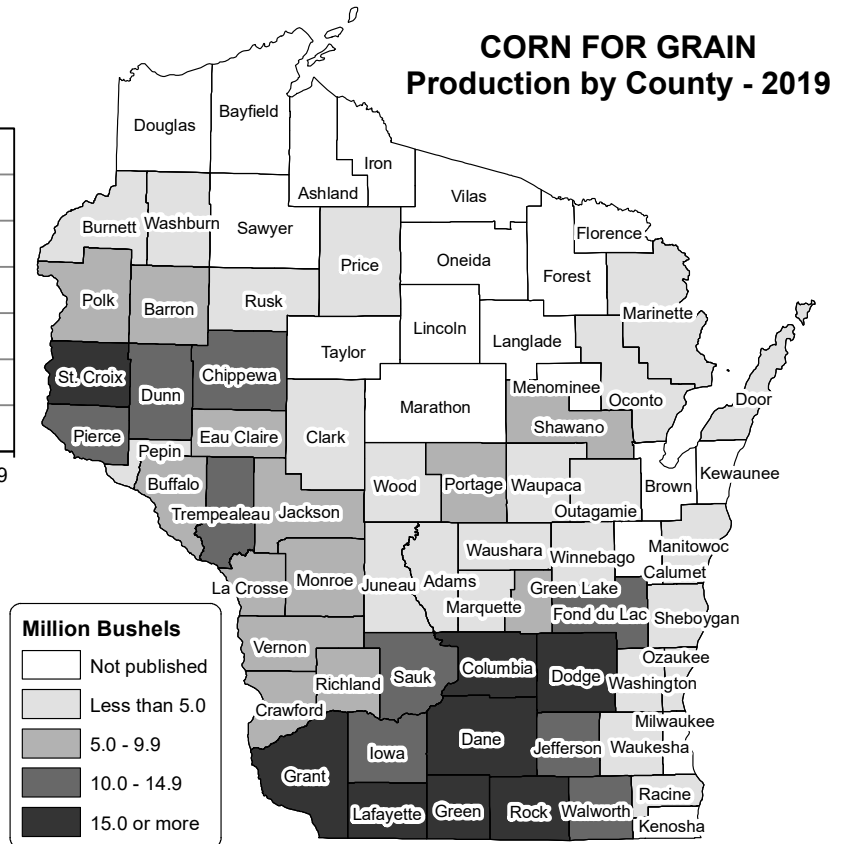
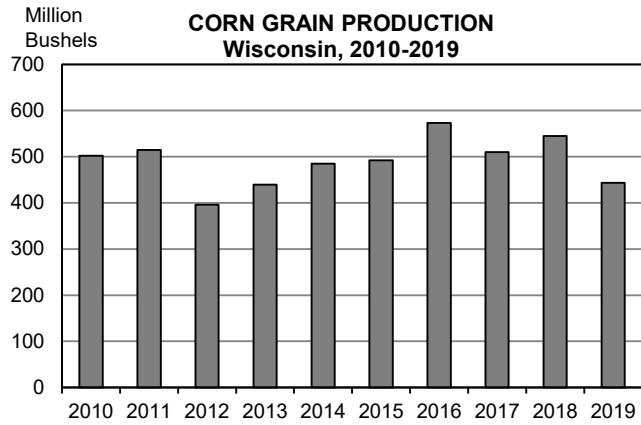
CORN FOR GRAIN: ACREAGE, YIELD AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	All corn planted	Harvested for grain	Yield per acre	Production	All corn planted	Harvested for grain	Yield per acre	Production
	Acres		Bushels	1,000 bushels	Acres		Bushels	1,000 bushels
Barron	86,800	73,400	161.7	11,870,000	91,300	74,000	134.7	9,971,000
Bayfield	-	-	-	-	-	-	-	-
Burnett	14,400	10,600	127.9	1,356,000	12,100	7,200	121.1	872,000
Chippewa	89,900	77,200	146.6	11,319,000	88,700	69,600	153.8	10,702,000
Douglas	-	-	-	-	-	-	-	-
Polk	62,300	56,000	164.0	9,182,000	68,100	51,500	150.2	7,734,000
Rusk	21,500	11,300	143.7	1,624,000	24,200	13,000	112.5	1,462,000
Sawyer	6,700	5,000	127.8	639,000	-	-	-	-
Washburn	10,900	8,730	170.6	1,489,000	11,800	8,670	157.0	1,361,000
Combined counties	2,500	1,770	123.2	218,000	9,300	5,530	137.6	761,000
Northwest	295,000	244,000	154.5	37,697,000	305,500	229,500	143.2	32,863,000
Ashland	-	-	-	-	-	-	-	-
Clark	78,800	59,700	112.3	6,707,000	75,800	15,300	123.1	1,884,000
Iron	-	-	-	-	-	-	-	-
Lincoln	7,900	3,990	135.8	542,000	-	-	-	-
Marathon	104,000	71,000	150.4	10,680,000	-	-	-	-
Oneida	-	-	-	-	-	-	-	-
Price	-	-	-	-	4,400	1,520	127.0	193,000
Taylor	-	-	-	-	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	43,300	22,310	151.6	3,382,000	160,800	71,180	136.9	9,744,000
North Central	234,000	157,000	135.7	21,311,000	241,000	88,000	134.3	11,821,000
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	12,700	7,050	118.2	833,000	-	-	-	-
Marinette	38,500	36,400	135.2	4,920,000	37,100	25,200	128.5	3,237,000
Menominee	-	-	-	-	-	-	-	-
Oconto	62,100	46,800	143.9	6,733,000	51,800	27,500	120.3	3,307,000
Shawano	81,000	46,500	153.4	7,134,000	74,500	44,000	132.7	5,840,000
Combined counties	700	250	136.0	34,000	14,600	6,300	131.3	827,000
Northeast	195,000	137,000	143.5	19,654,000	178,000	103,000	128.3	13,211,000
Buffalo	65,600	57,100	169.5	9,679,000	69,800	55,300	158.7	8,774,000
Dunn	98,800	85,300	173.7	14,817,000	102,500	81,700	179.2	14,644,000
Eau Claire	40,300	36,400	159.2	5,794,000	43,800	34,900	163.8	5,716,000
Jackson	49,100	44,100	151.1	6,663,000	49,400	38,500	162.5	6,255,000
La Crosse	33,600	29,400	170.0	4,999,000	33,500	29,000	173.4	5,028,000
Monroe	61,000	47,800	149.6	7,151,000	60,200	35,500	158.6	5,632,000
Pepin	29,200	23,300	173.3	4,037,000	30,100	24,500	176.1	4,315,000
Pierce	82,700	77,600	189.2	14,681,000	85,200	66,800	175.5	11,726,000
St Croix	96,300	87,400	162.9	14,234,000	98,200	83,200	181.0	15,056,000
Trempealeau	88,400	79,600	156.7	12,470,000	90,300	75,600	160.2	12,111,000
West Central	645,000	568,000	166.4	94,525,000	663,000	525,000	170.0	89,257,000
Adams	-	-	-	-	28,000	23,500	122.4	2,877,000
Green Lake	50,200	45,900	168.2	7,722,000	51,700	40,300	187.0	7,536,000
Juneau	41,400	37,900	158.8	6,018,000	39,600	31,500	152.3	4,798,000
Marquette	-	-	-	-	35,900	32,800	139.7	4,581,000
Portage	50,400	35,600	168.1	5,986,000	50,500	34,600	172.6	5,972,000
Waupaca	59,100	41,600	156.8	6,522,000	54,200	26,600	140.4	3,735,000
Waushara	33,500	29,400	163.4	4,805,000	32,200	26,800	174.0	4,664,000
Wood	36,400	20,700	155.7	3,222,000	30,400	13,900	142.7	1,983,000
Combined counties	61,500	52,400	137.8	7,220,000	-	-	-	-
Central	332,500	263,500	157.5	41,495,000	322,500	230,000	157.2	36,146,000
Brown	-	-	-	-	-	-	-	-
Calumet	45,900	31,100	158.8	4,939,000	-	-	-	-
Door	-	-	-	-	25,400	14,600	134.0	1,957,000
Fond du Lac	108,500	59,000	183.8	10,847,000	102,500	70,200	185.8	13,044,000
Kewaunee	-	-	-	-	-	-	-	-
Manitowoc	71,900	36,100	177.8	6,418,000	69,900	20,200	165.0	3,332,000
Outagamie	79,400	64,000	174.7	11,180,000	67,900	34,500	129.0	4,450,000
Sheboygan	51,000	33,100	156.4	5,176,000	43,400	16,600	185.4	3,077,000

CORN FOR GRAIN: ACREAGE, YIELD AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	All corn planted	Harvested for grain	Yield per acre	Production	All corn planted	Harvested for grain	Yield per acre	Production
	Acres		Bushels	1,000 bushels	Acres		Bushels	1,000 bushels
Winnebago	47,200	36,000	160.4	5,774,000	40,000	23,200	141.9	3,291,000
Combined counties	141,100	60,200	160.3	9,648,000	144,400	36,700	135.5	4,974,000
East Central	545,000	319,500	169.0	53,982,000	493,500	216,000	158.0	34,125,000
Crawford	36,900	34,700	166.2	5,768,000	35,700	31,300	161.2	5,046,000
Grant	152,000	138,600	202.7	28,088,000	166,500	136,100	198.3	26,989,000
Iowa	80,600	67,800	190.4	12,907,000	79,900	60,900	192.4	11,717,000
Lafayette	137,500	124,000	197.3	24,464,000	139,500	117,000	196.6	23,002,000
Richland	44,500	31,500	164.9	5,193,000	45,500	37,200	153.6	5,714,000
Sauk	83,200	71,800	172.8	12,408,000	85,800	68,900	154.4	10,635,000
Vernon	64,300	54,600	164.7	8,995,000	60,100	44,600	157.2	7,009,000
Southwest	599,000	523,000	187.0	97,823,000	613,000	496,000	181.7	90,112,000
Columbia	129,500	123,000	185.7	22,838,000	129,500	105,000	169.0	17,744,000
Dane	187,500	159,600	188.9	30,150,000	181,000	146,000	180.9	26,416,000
Dodge	146,000	135,700	191.6	26,006,000	137,000	105,000	173.1	18,178,000
Green	—	—	—	—	115,000	87,200	189.2	16,502,000
Jefferson	—	—	—	—	79,000	66,600	176.7	11,765,000
Rock	152,500	147,400	184.2	27,156,000	152,500	135,200	199.7	27,003,000
Combined counties	198,500	175,300	188.5	33,051,000	—	—	—	—
South Central	814,000	741,000	187.9	139,201,000	794,000	645,000	182.3	117,608,000
Kenosha	—	—	—	—	—	—	—	—
Milwaukee	—	—	—	—	—	—	—	—
Ozaukee	—	—	—	—	15,300	6,360	156.4	995,000
Racine	33,700	32,200	172.8	5,565,000	18,000	15,700	161.8	2,541,000
Walworth	104,500	99,200	194.1	19,258,000	91,500	77,900	176.7	13,762,000
Washington	32,400	24,600	165.9	4,080,000	29,300	18,000	168.7	3,036,000
Waukesha	22,400	21,200	182.0	3,859,000	16,100	13,800	169.8	2,343,000
Combined counties	47,500	39,800	170.6	6,790,000	19,300	15,740	153.7	2,420,000
Southeast	240,500	217,000	182.3	39,552,000	189,500	147,500	170.1	25,097,000
Wisconsin	3,900,000	3,170,000	172.0	545,240,000	3,800,000	2,670,000	166.0	443,220,000

1/ Some county data does not meet publication standards. However, this unpublished data is included in "Combined counties."



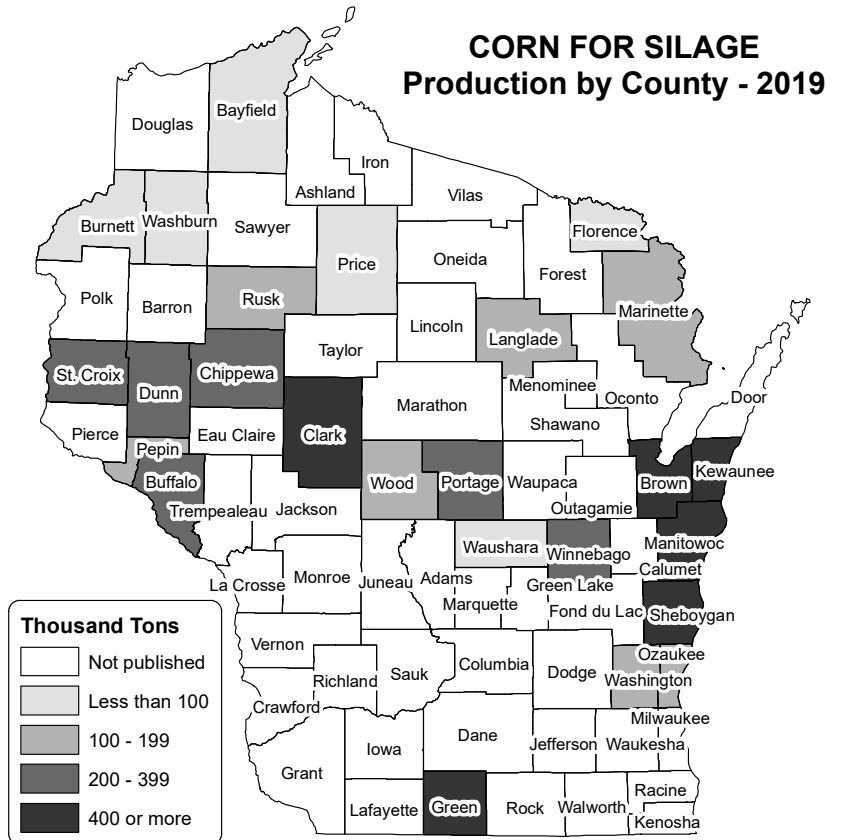
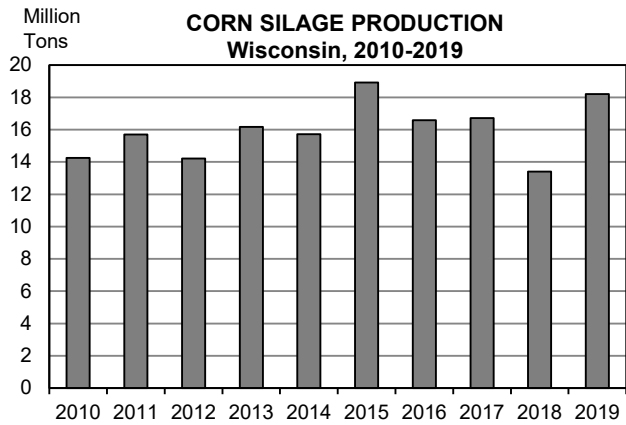
CORN FOR SILAGE: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018			2019		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Barron	—	—	—	—	—	—
Bayfield	470	12.5	5,800	700	14.0	9,900
Burnett	3,300	16.0	53,000	4,570	19.0	86,000
Chippewa	10,600	16.5	176,000	15,300	17.0	261,000
Douglas	—	—	—	—	—	—
Polk	5,560	24.0	133,000	—	—	—
Rusk	—	—	—	9,040	14.0	128,000
Sawyer	1,350	19.0	25,800	—	—	—
Washburn	—	—	—	3,030	21.0	63,000
Combined counties	22,220	20.5	456,400	31,260	18.0	561,100
Northwest	43,500	19.5	850,000	63,900	17.5	1,109,000
Ashland	—	—	—	—	—	—
Clark	14,900	19.5	290,000	58,700	13.5	781,000
Iron	—	—	—	—	—	—
Lincoln	—	—	—	—	—	—
Marathon	31,100	17.5	550,000	—	—	—
Oneida	—	—	—	—	—	—
Price	—	—	—	2,520	13.5	33,400
Taylor	—	—	—	—	—	—
Vilas	—	—	—	—	—	—
Combined counties	23,300	17.0	401,000	85,880	13.5	1,167,600
North Central	69,300	18.0	1,241,000	147,100	13.5	1,982,000
Florence	130	11.5	1,500	150	10.5	1,600
Forest	—	—	—	—	—	—
Langlade	4,160	16.5	69,000	7,500	17.5	131,000
Marinette	—	—	—	10,500	14.5	151,000
Menominee	—	—	—	—	—	—
Oconto	—	—	—	—	—	—
Shawano	—	—	—	—	—	—
Combined counties	47,710	18.5	892,500	51,050	16.5	838,400
Northeast	52,000	18.5	963,000	69,200	16.0	1,122,000
Buffalo	—	—	—	13,100	20.0	259,000
Dunn	11,600	20.0	230,000	20,000	19.0	381,000
Eau Claire	—	—	—	—	—	—
Jackson	3,800	18.5	71,000	—	—	—
La Crosse	—	—	—	—	—	—
Monroe	—	—	—	—	—	—
Pepin	5,400	22.0	119,000	5,040	24.0	122,000
Pierce	4,280	20.5	88,000	—	—	—
St Croix	6,710	17.0	113,000	12,800	21.5	278,000
Trempealeau	7,140	18.5	131,000	—	—	—
Combined counties	26,570	19.5	519,000	74,960	20.5	1,538,000
West Central	65,500	19.5	1,271,000	125,900	20.5	2,578,000
Adams	—	—	—	—	—	—
Green Lake	—	—	—	—	—	—
Juneau	2,430	17.5	42,600	—	—	—
Marquette	—	—	—	—	—	—
Portage	13,500	19.5	264,000	14,600	18.0	266,000
Waupaca	—	—	—	—	—	—
Waushara	3,510	15.0	53,000	5,190	15.0	79,000
Wood	14,400	19.0	271,000	15,000	13.5	199,000
Combined counties	28,260	19.0	534,400	51,910	17.5	899,000
Central	62,100	19.0	1,165,000	86,700	16.5	1,443,000
Brown	36,700	18.0	662,000	42,000	15.0	632,000
Calumet	—	—	—	—	—	—
Door	—	—	—	—	—	—
Fond du Lac	48,100	23.0	1,109,000	—	—	—
Kewaunee	34,000	19.0	639,000	36,000	15.5	550,000
Manitowoc	33,900	21.0	711,000	47,900	16.0	776,000
Outagamie	14,600	19.0	276,000	—	—	—
Sheboygan	—	—	—	26,000	17.0	443,000

CORN FOR SILAGE: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018			2019		
	Harvested Acres	Yield per acre Tons	Production	Harvested Acres	Yield per acre Tons	Production
Winnebago	10,600	18.0	189,000	16,500	16.0	260,000
Combined counties	36,100	20.5	735,000	98,600	16.5	1,624,000
East Central	214,000	20.0	4,321,000	267,000	16.0	4,285,000
Crawford	-	-	-	-	-	-
Grant	-	-	-	-	-	-
Iowa	-	-	-	-	-	-
Lafayette	-	-	-	-	-	-
Richland	12,300	23.0	281,000	-	-	-
Sauk	-	-	-	-	-	-
Vernon	9,180	19.5	181,000	-	-	-
Combined counties	50,320	22.0	1,105,000	-	-	-
Southwest	71,800	22.0	1,567,000	104,200	20.0	2,084,000
Columbia	5,900	23.0	137,000	-	-	-
Dane	-	-	-	-	-	-
Dodge	9,900	21.0	207,000	-	-	-
Green	-	-	-	26,500	20.5	546,000
Jefferson	-	-	-	-	-	-
Rock	-	-	-	-	-	-
Combined counties	53,400	22.5	1,210,000	109,600	21.5	2,342,000
South Central	69,200	22.5	1,554,000	136,100	21.0	2,888,000
Kenosha	4,760	19.5	94,000	-	-	-
Milwaukee	-	-	-	-	-	-
Ozaukee	-	-	-	8,610	15.0	128,000
Racine	-	-	-	-	-	-
Walworth	-	-	-	-	-	-
Washington	7,530	22.0	164,000	10,900	17.5	193,000
Waukesha	-	-	-	-	-	-
Combined counties	10,310	20.5	210,000	20,390	19.0	388,000
Southeast	22,600	20.5	468,000	39,900	18.0	709,000
Wisconsin	670,000	20.0	13,400,000	1,040,000	17.5	18,200,000

1/ Some county data does not meet publication standards. However, this unpublished data is included in "Combined counties."



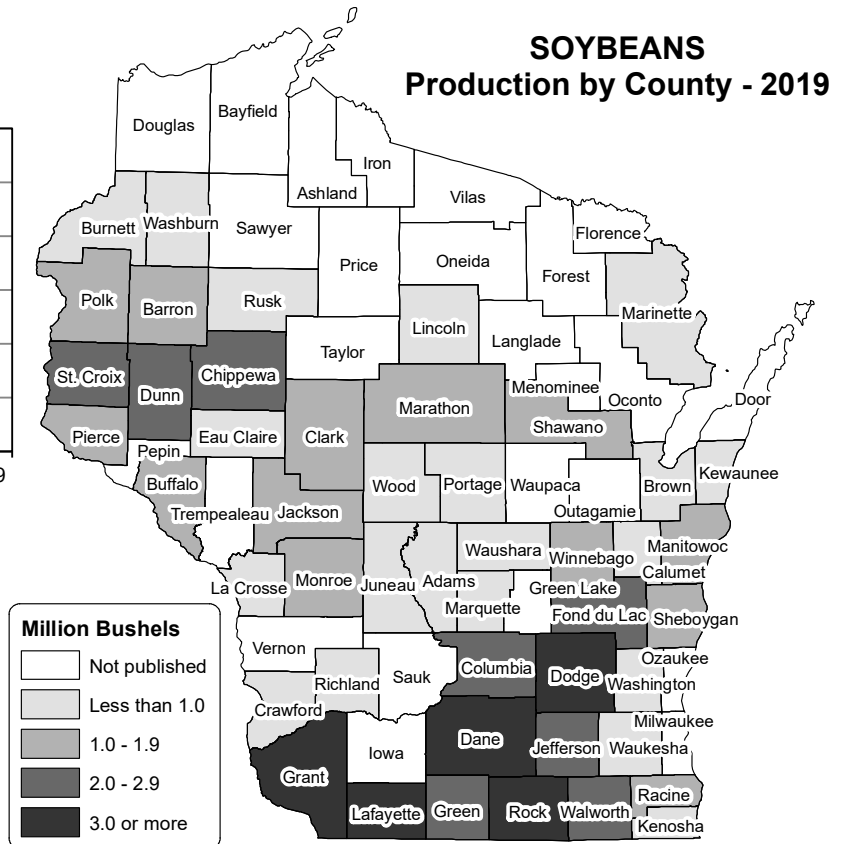
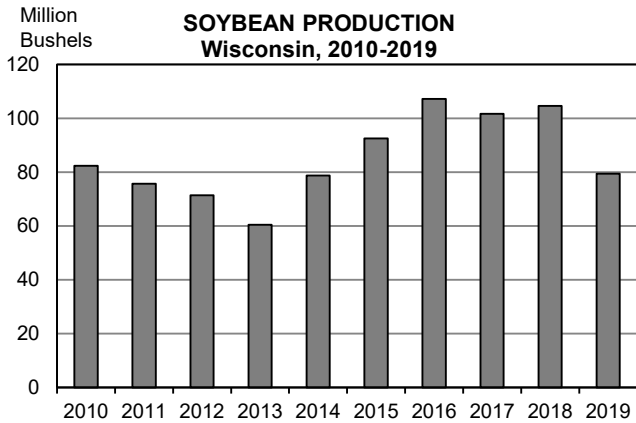
SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres	Acres	Bushels	1,000 bushels	Acres	Acres	Bushels	1,000 bushels
Barron	59,000	58,200	42.5	2,472,000	47,400	46,400	42.0	1,950,000
Bayfield	-	-	-	-	-	-	-	-
Burnett	9,900	9,790	33.7	330,000	8,300	8,040	33.8	272,000
Chippewa	62,700	61,000	40.8	2,486,000	50,700	49,500	43.7	2,163,000
Douglas	-	-	-	-	-	-	-	-
Polk	41,500	40,800	37.4	1,526,000	31,600	30,900	37.8	1,168,000
Rusk	-	-	-	-	12,000	11,700	30.3	354,000
Sawyer	3,200	3,150	30.4	95,900	-	-	-	-
Washburn	8,100	7,990	46.8	374,000	6,700	6,550	41.4	271,000
Combined counties	19,600	18,970	45.7	867,100	3,300	3,210	32.4	104,000
Northwest	204,000	199,900	40.8	8,151,000	160,000	156,300	40.2	6,282,000
Ashland	-	-	-	-	-	-	-	-
Clark	47,600	47,000	38.9	1,828,000	35,600	34,700	41.6	1,444,000
Iron	-	-	-	-	-	-	-	-
Lincoln	-	-	-	-	5,600	5,470	34.0	186,000
Marathon	62,400	61,500	39.7	2,441,000	45,600	44,600	34.7	1,548,000
Oneida	-	-	-	-	-	-	-	-
Price	1,000	970	39.0	37,800	-	-	-	-
Taylor	-	-	-	-	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	35,500	34,930	37.7	1,316,200	22,200	21,630	34.1	737,000
North Central	146,500	144,400	38.9	5,623,000	109,000	106,400	36.8	3,915,000
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	8,000	7,730	34.9	270,000	-	-	-	-
Marinette	10,400	10,200	46.3	472,000	8,800	8,450	43.0	363,000
Menominee	-	-	-	-	-	-	-	-
Oconto	-	-	-	-	-	-	-	-
Shawano	-	-	-	-	25,100	24,600	42.8	1,052,000
Combined counties	67,600	66,670	46.0	3,070,000	23,100	22,250	33.8	753,000
Northeast	86,000	84,600	45.1	3,812,000	57,000	55,300	39.2	2,168,000
Buffalo	34,400	33,800	44.3	1,496,000	26,900	26,300	45.4	1,193,000
Dunn	69,200	68,300	42.6	2,912,000	60,900	59,500	48.0	2,855,000
Eau Claire	30,500	30,100	40.9	1,232,000	22,000	21,400	43.9	939,000
Jackson	30,300	29,900	43.0	1,287,000	25,400	24,500	43.7	1,070,000
La Crosse	17,500	17,000	43.5	740,000	15,500	15,100	47.7	721,000
Monroe	-	-	-	-	22,200	21,600	46.9	1,014,000
Pepin	-	-	-	-	-	-	-	-
Pierce	47,600	46,800	48.6	2,275,000	41,400	40,200	47.6	1,912,000
St. Croix	61,600	60,800	42.3	2,570,000	53,100	51,500	49.5	2,551,000
Trempealeau	42,400	41,800	39.6	1,656,000	-	-	-	-
Combined counties	46,500	45,500	47.4	2,158,000	49,100	47,400	48.6	2,306,000
West Central	380,000	374,000	43.7	16,326,000	316,500	307,500	47.4	14,561,000
Adams	-	-	-	-	11,000	10,800	48.6	525,000
Green Lake	-	-	-	-	-	-	-	-
Juneau	29,500	28,700	38.9	1,115,000	21,800	21,100	37.8	798,000
Marquette	-	-	-	-	10,400	9,400	38.1	358,000
Portage	20,000	19,700	40.6	799,000	13,600	13,200	44.0	581,000
Waupaca	33,400	32,900	44.5	1,464,000	-	-	-	-
Waushara	-	-	-	-	14,100	13,800	47.3	653,000
Wood	23,300	23,000	37.7	868,000	10,600	10,200	40.6	414,000
Combined counties	71,300	69,400	44.0	3,051,000	39,500	38,100	44.3	1,689,000
Central	177,500	173,700	42.0	7,297,000	121,000	116,600	43.0	5,018,000
Brown	-	-	-	-	17,200	16,500	37.6	620,000
Calumet	27,700	27,000	49.8	1,345,000	21,500	20,900	41.9	876,000
Door	-	-	-	-	-	-	-	-
Fond Du Lac	59,100	58,200	51.4	2,993,000	48,600	47,300	50.6	2,393,000
Kewaunee	15,700	15,500	50.8	787,000	11,500	11,200	42.1	471,000
Manitowoc	32,600	32,200	51.6	1,661,000	27,100	26,400	44.2	1,167,000
Outagamie	60,700	59,900	48.0	2,873,000	-	-	-	-
Sheboygan	35,100	34,700	46.7	1,619,000	27,200	26,500	49.9	1,322,000

SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels	1,000 bushels	Acres		Bushels	1,000 bushels
Winnebago	42,100	41,600	50.6	2,103,000	28,700	28,100	41.9	1,177,000
Combined counties	42,500	41,900	45.9	1,924,000	43,200	41,100	38.4	1,580,000
East Central	315,500	311,000	49.2	15,305,000	225,000	218,000	44.1	9,606,000
Crawford	21,200	20,600	45.5	937,000	18,400	18,000	44.8	807,000
Grant	80,100	78,500	63.3	4,969,000	61,600	59,600	55.4	3,300,000
Iowa	-	-	-	-	-	-	-	-
Lafayette	63,100	62,000	62.7	3,886,000	55,900	54,500	59.4	3,239,000
Richland	18,200	17,400	40.3	702,000	13,700	13,400	44.0	590,000
Sauk	40,500	38,600	48.7	1,881,000	-	-	-	-
Vernon	-	-	-	-	-	-	-	-
Combined counties	77,900	76,400	49.7	3,795,000	103,400	100,500	49.6	4,984,000
Southwest	301,000	293,500	55.1	16,170,000	253,000	246,000	52.5	12,920,000
Columbia	-	-	-	-	41,800	40,900	48.9	2,002,000
Dane	88,300	86,100	55.1	4,748,000	72,300	70,800	54.5	3,859,000
Dodge	83,600	82,300	50.3	4,139,000	70,500	67,800	51.0	3,461,000
Green	-	-	-	-	52,200	51,100	54.4	2,779,000
Jefferson	52,000	51,000	51.1	2,607,000	46,200	45,200	48.1	2,175,000
Rock	95,900	94,600	54.4	5,142,000	84,500	82,200	58.0	4,771,000
Combined counties	112,700	111,000	57.7	6,410,000	-	-	-	-
South Central	432,500	425,000	54.2	23,046,000	367,500	358,000	53.2	19,047,000
Kenosha	-	-	-	-	19,700	18,000	43.6	785,000
Milwaukee	-	-	-	-	-	-	-	-
Ozaukee	13,300	13,100	48.8	639,000	-	-	-	-
Racine	33,900	33,100	51.5	1,706,000	27,700	26,600	46.1	1,227,000
Walworth	-	-	-	-	45,600	44,500	50.3	2,240,000
Washington	24,400	23,900	45.4	1,086,000	21,100	20,600	47.1	970,000
Waukesha	18,600	18,300	46.8	856,000	15,400	15,000	45.6	684,000
Combined counties	86,800	85,500	54.1	4,623,000	11,500	11,200	42.6	477,000
Southeast	177,000	173,900	51.2	8,910,000	141,000	135,900	47.0	6,383,000
Wisconsin	2,220,000	2,180,000	48.0	104,640,000	1,750,000	1,690,000	47.0	79,430,000

1/ Some county data does not meet publication standards. However, this unpublished data is included in "Combined counties."



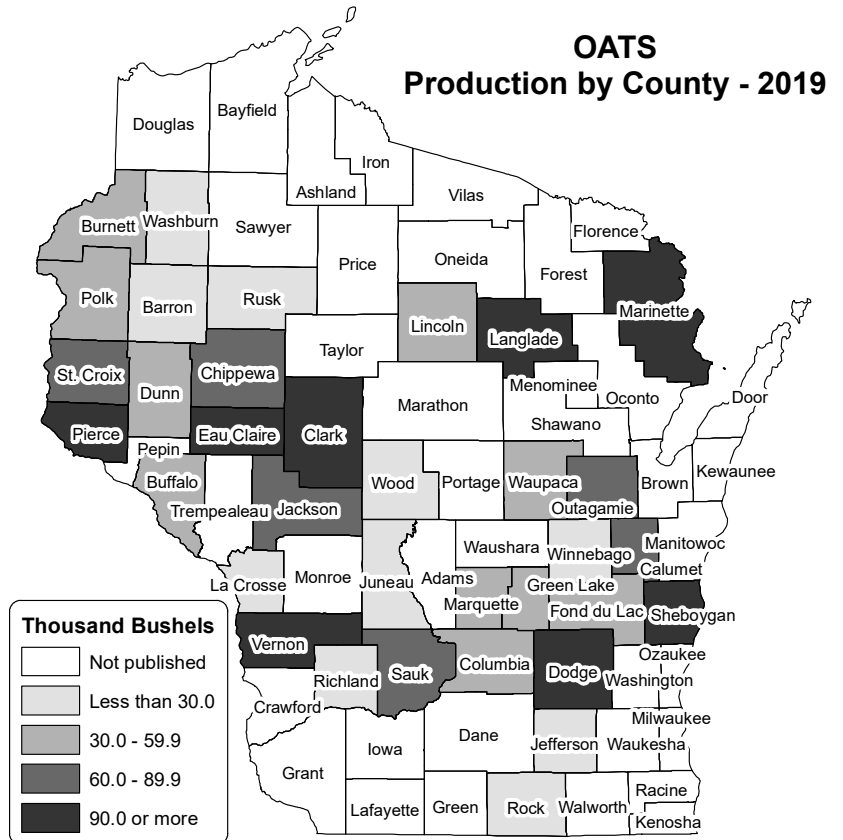
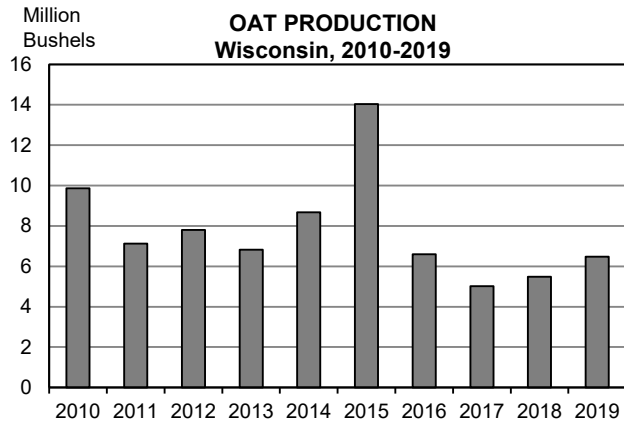
OATS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Barron	2,800	750	51.6	38,700	4,000	250	50.8	12,700
Bayfield	-	-	-	-	-	-	-	-
Burnett	-	-	-	-	1,100	850	58.7	49,900
Chippewa	3,400	1,750	57.1	100,000	5,400	1,230	50.5	62,100
Douglas	-	-	-	-	-	-	-	-
Polk	1,800	710	53.4	37,900	3,900	770	53.8	41,400
Rusk	-	-	-	-	2,000	580	43.3	25,100
Sawyer	-	-	-	-	-	-	-	-
Washburn	800	100	49.0	4,900	1,700	230	58.3	13,400
Combined counties	3,400	1,640	43.6	71,500	2,100	990	44.8	44,400
Northwest	12,200	4,950	51.1	253,000	20,200	4,900	50.8	249,000
Ashland	-	-	-	-	-	-	-	-
Clark	5,300	3,930	54.2	213,000	7,000	5,670	37.9	215,000
Iron	-	-	-	-	-	-	-	-
Lincoln	1,500	1,210	71.3	86,300	1,700	1,450	38.1	55,300
Marathon	8,900	3,910	63.2	247,000	-	-	-	-
Oneida	-	-	-	-	-	-	-	-
Price	-	-	-	-	-	-	-	-
Taylor	-	-	-	-	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	7,000	4,850	50.9	246,700	23,700	17,380	55.6	965,700
North Central	22,700	13,900	57.1	793,000	32,400	24,500	50.4	1,236,000
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	10,600	9,310	83.1	774,000	11,400	11,100	71.1	789,000
Marinette	1,700	1,010	64.0	64,600	2,100	1,830	50.7	92,700
Menominee	-	-	-	-	-	-	-	-
Oconto	2,100	1,010	60.2	60,800	-	-	-	-
Shawano	3,400	1,420	55.1	78,200	-	-	-	-
Combined counties	600	450	43.1	19,400	8,200	5,070	48.0	243,300
Northeast	18,400	13,200	75.5	997,000	21,700	18,000	62.5	1,125,000
Buffalo	4,600	1,270	40.0	50,800	5,600	1,230	41.1	50,500
Dunn	4,200	2,140	55.1	118,000	7,700	600	52.7	31,600
Eau Claire	2,800	1,390	56.5	78,500	3,100	2,080	43.5	90,500
Jackson	3,100	1,330	54.7	72,700	4,300	1,500	45.2	67,800
La Crosse	-	-	-	-	2,700	530	50.8	26,900
Monroe	3,200	1,550	54.6	84,700	-	-	-	-
Pepin	-	-	-	-	-	-	-	-
Pierce	4,500	2,490	58.6	146,000	5,300	3,020	52.6	159,000
St Croix	3,600	2,570	59.9	154,000	5,300	1,550	51.4	79,600
Trempealeau	-	-	-	-	-	-	-	-
Combined counties	7,500	2,160	46.9	101,300	12,900	5,090	38.3	195,100
West Central	33,500	14,900	54.1	806,000	46,900	15,600	44.9	701,000
Adams	-	-	-	-	-	-	-	-
Green Lake	800	590	55.3	32,600	1,100	630	61.4	38,700
Juneau	2,300	250	43.6	10,900	2,200	340	38.8	13,200
Marquette	-	-	-	-	1,400	740	51.8	38,300
Portage	5,800	570	46.8	26,700	-	-	-	-
Waupaca	2,500	830	52.0	43,200	3,200	880	54.2	47,700
Waushara	-	-	-	-	-	-	-	-
Wood	2,500	1,690	50.1	84,600	2,000	690	41.3	28,500
Combined counties	2,700	420	42.9	18,000	9,400	3,920	40.5	158,600
Central	16,600	4,350	49.7	216,000	19,300	7,200	45.1	325,000
Brown	-	-	-	-	-	-	-	-
Calumet	1,400	560	69.8	39,100	2,300	1,020	65.4	66,700
Door	3,900	1,450	55.4	80,300	-	-	-	-
Fond Du Lac	3,200	1,260	67.9	85,500	3,800	590	68.6	40,500
Kewaunee	5,600	3,390	69.3	235,000	-	-	-	-
Manitowoc	5,800	2,050	71.2	146,000	-	-	-	-
Outagamie	-	-	-	-	7,500	1,170	52.6	61,600
Sheboygan	2,000	930	77.6	72,200	2,700	2,110	69.2	146,000

OATS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Winnebago	—	—	—	—	800	280	82.9	23,200
Combined counties	6,300	3,460	58.6	202,900	25,200	14,030	58.2	816,000
East Central	28,200	13,100	65.7	861,000	42,300	19,200	60.1	1,154,000
Crawford	3,600	1,140	52.7	60,100	—	—	—	—
Grant	14,100	4,020	62.2	250,000	—	—	—	—
Iowa	5,500	3,500	65.7	230,000	—	—	—	—
Lafayette	—	—	—	—	—	—	—	—
Richland	3,500	230	52.2	12,000	3,600	490	41.0	20,100
Sauk	—	—	—	—	5,000	1,600	42.8	68,400
Vernon	6,200	4,110	65.0	267,000	7,100	2,940	47.6	140,000
Combined counties	11,800	4,000	60.5	241,900	39,200	13,970	56.4	788,500
Southwest	44,700	17,000	62.4	1,061,000	54,900	19,000	53.5	1,017,000
Columbia	—	—	—	—	1,900	800	51.6	41,300
Dane	3,000	1,060	51.4	54,500	—	—	—	—
Dodge	4,200	1,500	60.1	90,100	5,900	2,560	70.7	181,000
Green	4,700	1,760	61.4	108,000	—	—	—	—
Jefferson	—	—	—	—	1,400	390	73.8	28,800
Rock	—	—	—	—	1,400	60	48.3	2,900
Combined counties	6,500	1,110	61.6	68,400	10,800	4,090	53.8	220,000
South Central	18,400	5,430	59.1	321,000	21,400	7,900	60.0	474,000
Kenosha	—	—	—	—	—	—	—	—
Milwaukee	—	—	—	—	—	—	—	—
Ozaukee	1,100	810	62.8	50,900	—	—	—	—
Racine	—	—	—	—	—	—	—	—
Walworth	800	150	74.7	11,200	—	—	—	—
Washington	2,000	1,440	63.6	91,600	—	—	—	—
Waukesha	—	—	—	—	—	—	—	—
Combined counties	1,400	770	36.8	28,300	5,900	3,700	53.8	199,000
Southeast	5,300	3,170	57.4	182,000	5,900	3,700	53.8	199,000
Wisconsin	200,000	90,000	61.0	5,490,000	265,000	120,000	54.0	6,480,000

1/ Some counties were not published to avoid disclosure of individual operations. Unpublished data is included in "combined counties."



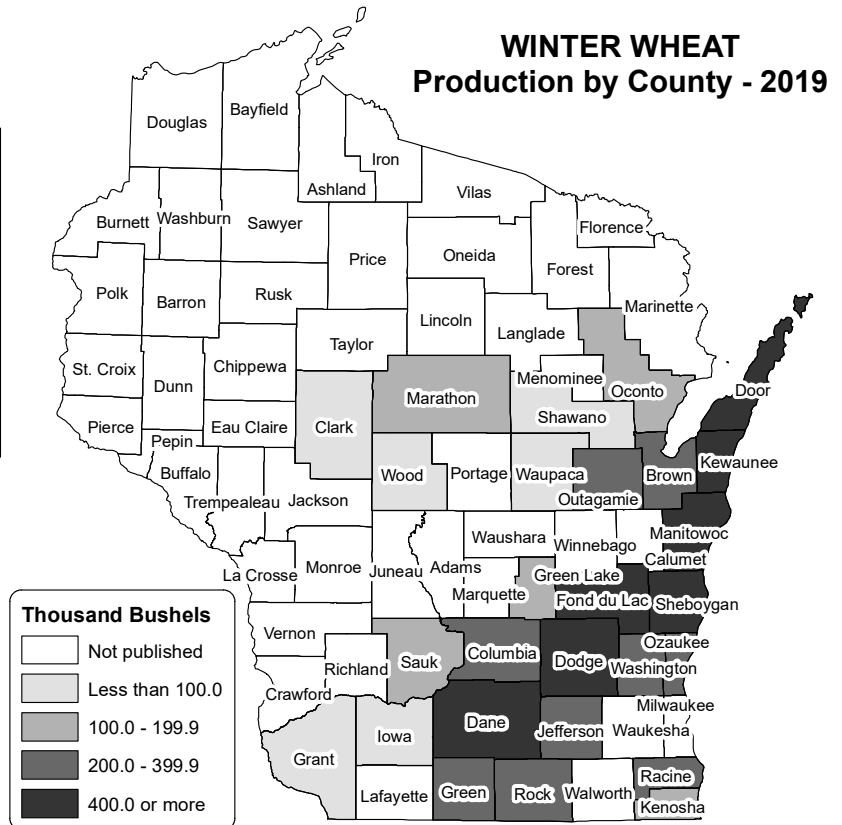
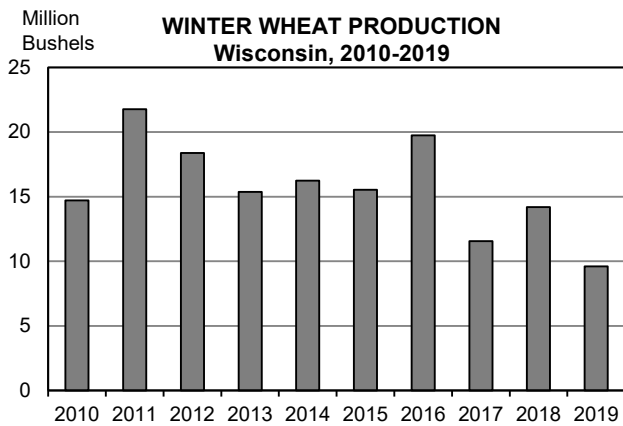
WINTER WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Barron	-	-	-	-	-	-	-	-
Bayfield	-	-	-	-	-	-	-	-
Burnett	-	-	-	-	-	-	-	-
Chippewa	-	-	-	-	-	-	-	-
Douglas	-	-	-	-	-	-	-	-
Polk	-	-	-	-	-	-	-	-
Rusk	-	-	-	-	-	-	-	-
Sawyer	-	-	-	-	-	-	-	-
Washburn	-	-	-	-	-	-	-	-
Northwest	3,400	3,000	53.7	161,000	4,700	2,950	52.5	155,000
Ashland	-	-	-	-	-	-	-	-
Clark	-	-	-	-	1,600	1,320	48.5	64,000
Iron	-	-	-	-	-	-	-	-
Lincoln	-	-	-	-	-	-	-	-
Marathon	2,200	1,700	60.0	102,000	2,600	2,080	58.7	122,000
Oneida	-	-	-	-	-	-	-	-
Price	-	-	-	-	-	-	-	-
Taylor	-	-	-	-	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	2,300	2,070	56.5	117,000	900	700	47.1	33,000
North Central	4,500	3,770	58.1	219,000	5,100	4,100	53.4	219,000
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	-	-	-	-	-	-	-	-
Marinette	2,300	2,080	55.8	116,000	-	-	-	-
Menominee	-	-	-	-	-	-	-	-
Oconto	-	-	-	-	5,300	4,580	41.7	191,000
Shawano	3,800	3,630	62.5	227,000	2,300	1,670	52.0	86,800
Combined counties	6,700	6,390	60.7	388,000	3,700	3,120	43.0	134,200
Northeast	12,800	12,100	60.4	731,000	11,300	9,370	44.0	412,000
Buffalo	-	-	-	-	-	-	-	-
Dunn	-	-	-	-	-	-	-	-
Eau Claire	-	-	-	-	-	-	-	-
Jackson	-	-	-	-	-	-	-	-
La Crosse	-	-	-	-	-	-	-	-
Monroe	-	-	-	-	-	-	-	-
Pepin	-	-	-	-	-	-	-	-
Pierce	-	-	-	-	-	-	-	-
St Croix	-	-	-	-	-	-	-	-
Trempealeau	-	-	-	-	-	-	-	-
West Central	8,100	2,340	58.5	137,000	2,300	1,800	46.1	83,000
Adams	-	-	-	-	-	-	-	-
Green Lake	3,600	3,280	67.1	220,000	2,100	1,640	69.5	114,000
Juneau	1,100	830	37.8	31,400	-	-	-	-
Marquette	-	-	-	-	-	-	-	-
Portage	-	-	-	-	-	-	-	-
Waupaca	2,700	2,500	60.0	150,000	2,200	1,700	52.2	88,800
Waushara	800	740	53.9	39,900	-	-	-	-
Wood	1,500	1,150	57.0	65,500	800	660	52.0	34,300
Combined counties	20,800	1,290	42.8	55,200	8,800	2,750	57.1	156,900
Central	30,500	9,790	57.4	562,000	13,900	6,750	58.4	394,000
Brown	9,900	8,920	64.3	574,000	5,700	4,690	55.0	258,000
Calumet	9,200	8,950	78.8	705,000	-	-	-	-
Door	10,400	10,000	60.5	605,000	9,700	8,450	53.5	452,000
Fond Du Lac	12,800	12,100	77.5	938,000	10,800	8,380	76.7	643,000
Kewaunee	11,400	11,100	72.5	805,000	11,300	9,220	67.5	622,000
Manitowoc	15,300	14,400	77.0	1,109,000	13,400	11,400	68.2	778,000
Outagamie	6,500	5,210	71.0	370,000	4,800	3,810	56.4	215,000
Sheboygan	9,400	8,760	76.8	673,000	8,800	7,600	62.0	471,000
Winnebago	8,800	8,360	73.3	613,000	-	-	-	-
Combined counties	(X)	(X)	(X)	(X)	14,000	10,050	69.6	699,000
East Central	93,700	87,800	72.8	6,392,000	78,500	63,600	65.1	4,138,000

WINTER WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019 1/

County and district	2018				2019			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Crawford	900	820	59.4	48,700	-	-	-	-
Grant	2,700	2,260	76.1	172,000	2,400	1,300	65.6	85,300
Iowa	-	-	-	-	1,300	980	74.7	73,200
Lafayette	-	-	-	-	-	-	-	-
Richland	-	-	-	-	-	-	-	-
Sauk	4,400	4,290	64.8	278,000	4,000	2,250	64.9	146,000
Vernon	1,000	890	74.9	66,700	-	-	-	-
Combined counties	5,900	5,340	69.4	370,600	4,500	3,300	69.2	228,500
Southwest	14,900	13,600	68.8	936,000	12,200	7,830	68.1	533,000
Columbia	6,300	5,830	64.2	374,000	5,300	3,550	72.7	258,000
Dane	11,600	10,300	74.3	765,000	10,300	8,250	72.6	599,000
Dodge	12,100	11,300	74.5	842,000	10,100	7,250	66.6	483,000
Green	5,500	5,170	73.7	381,000	4,300	3,200	70.3	225,000
Jefferson	5,500	5,000	79.4	397,000	5,200	4,400	66.8	294,000
Rock	5,500	5,300	80.9	429,000	5,100	4,550	72.5	330,000
South Central	46,500	42,900	74.3	3,188,000	40,300	31,200	70.2	2,189,000
Kenosha	3,700	3,610	85.3	308,000	4,200	3,250	55.4	180,000
Milwaukee	-	-	-	-	-	-	-	-
Ozaukee	4,200	4,020	80.3	323,000	3,900	3,480	64.4	224,000
Racine	5,800	5,640	72.7	410,000	6,600	5,460	69.4	379,000
Walworth	4,500	4,280	73.6	315,000	-	-	-	-
Washington	4,600	4,480	68.5	307,000	4,300	3,790	66.8	253,000
Waukesha	-	-	-	-	-	-	-	-
Combined counties	2,800	2,670	79.0	211,000	7,700	6,420	68.7	441,000
Southeast	25,600	24,700	75.9	1,874,000	26,700	22,400	65.9	1,477,000
Wisconsin	240,000	200,000	71.0	14,200,000	195,000	150,000	64.0	9,600,000

1/ Some counties were not published to avoid disclosure of individual operations. Unpublished data is included in "combined counties."



FORAGE AND HAY SUMMARY: ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2015-2019

Year	Harvested 1,000 acres	Yield per acre Tons	Production 1,000 tons	Value	
				Per ton Dollars	Total 1,000 dollars
ALL FORAGE 1/ (DRY EQUIVALENT)					
2015	2,600	3.45	8,967	—	—
2016	2,400	3.59	8,607	—	—
2017	2,170	3.52	7,643	—	—
2018	2,210	2.93	6,479	—	—
2019	2,330	2.63	6,135	—	—
ALL ALFALFA FORAGE 1/ (DRY EQUIVALENT)					
2015	2,150	3.57	7,685	—	—
2016	1,950	3.80	7,406	—	—
2017	1,700	3.83	6,519	—	—
2018	1,590	3.29	5,239	—	—
2019	1,680	3.00	5,036	—	—
ALL HAY (DRY ONLY)					
2015	1,510	2.70	4,073	92.50	375,625
2016	1,330	2.95	3,926	85.00	332,582
2017	1,270	2.77	3,522	111.00	396,066
2018	1,360	2.17	2,953	153.00	414,450
2019	1,300	2.14	2,784	189.00	524,832
ALFALFA HAY (DRY ONLY)					
2015	1,200	2.80	3,360	98.00	329,280
2016	1,000	3.20	3,200	91.00	291,200
2017	910	3.00	2,730	121.00	330,330
2018	820	2.35	1,927	162.00	312,174
2019	880	2.40	2,112	203.00	428,736
ALL OTHER HAY 2/ (DRY ONLY)					
2015	310	2.30	713	65.00	46,345
2016	330	2.20	726	57.00	41,382
2017	360	2.20	792	83.00	65,736
2018	540	1.90	1,026	126.00	129,276
2019	420	1.60	672	143.00	96,096

1/Includes all acreage harvested for dry hay and/or haylage and all production from those acres on a dry equivalent basis. 2/Includes clover, timothy, and other types.

PRICES RECEIVED BY FARMERS FOR HAY: BY MONTH, WISCONSIN, 2015-2019

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Dollars per ton												
ALFALFA HAY (BALED)												
2015	133.00	125.00	125.00	124.00	136.00	96.00	88.00	111.00	107.00	102.00	101.00	98.00
2016	107.00	83.00	92.00	99.00	101.00	95.00	80.00	79.00	88.00	117.00	100.00	94.00
2017	82.00	92.00	91.00	93.00	120.00	113.00	103.00	97.00	119.00	121.00	138.00	127.00
2018	130.00	138.00	135.00	165.00	171.00	148.00	127.00	134.00	154.00	165.00	180.00	186.00
2019	187.00	201.00	203.00	193.00	232.00	219.00	167.00	192.00	190.00	213.00	226.00	242.00
ALL OTHER HAY (BALED)												
2015	100.00	88.00	88.00	79.00	86.00	69.00	76.00	54.00	64.00	57.00	73.00	68.00
2016	74.00	54.00	58.00	65.00	59.00	64.00	46.00	46.00	59.00	51.00	70.00	67.00
2017	58.00	67.00	66.00	70.00	66.00	74.00	70.00	79.00	70.00	92.00	103.00	94.00
2018	94.00	96.00	90.00	120.00	109.00	118.00	94.00	91.00	120.00	132.00	159.00	155.00
2019	158.00	179.00	152.00	165.00	189.00	176.00	125.00	112.00	135.00	149.00	182.00	182.00

APPLES AND CHERRIES: ACREAGE, YIELD, AND VALUE, WISCONSIN, 2015-2019

Year	Bearing acreage	Yield per acre 1/	Production		Price per pound			Value of production		
			Total	Utilized	Fresh	Processed	All	Fresh	Processed	All
	Acres	Pounds	Million pounds		Dollars			1,000 dollars		
APPLES										
2015	4,000	12,900	51.5	48.1	0.680	0.125	0.578	26,724	1,101	27,825
2016	4,000	10,300	41.0	39.5	0.636	0.207	0.552	20,225	1,594	21,819
2017	4,000	12,300	49.0	47.9	0.668	0.145	0.549	24,716	1,581	26,297
2018 2/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2019 2/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
CHERRIES, TART										
2015	1,700	5,470	9.3	9.2	0.738	0.308	0.331	369	2,680	3,049
2016	1,700	8,000	13.6	13.5	0.963	0.297	0.302	96	3,980	4,076
2017	1,600	7,060	11.3	9.4	1.380	0.212	0.224	138	1,971	2,109
2018	1,500	7,270	10.9	10.0	1.220	0.161	0.193	366	1,562	1,928
2019	1,600	5,700	9.1	8.6	(D)	(D)	0.109	(D)	(D)	934

(D) Withheld to avoid disclosing data for individual operations. (NA) Not available. 1/Yield is based on total on total production, which includes unharvested production and fruit harvested but not sold due to marketing conditions. 2/Apple estimates for Wisconsin were discontinued in 2018.

CRANBERRIES: ACREAGE, YIELD, PRODUCTION AND VALUE, WISCONSIN, 2015-2019

Year	Harvested	Yield per acre 1/	Production		Utilization		Value	
			Total	Utilized	Fresh	Processed	Per barrel 2/	Total
	Acres		Barrels		Dollars	1,000 dollars		
2015	20,200	237.3	4,856,000	4,793,000	185,000	4,608,000	29.20	140,146
2016	21,100	288.2	6,130,000	6,081,000	202,000	5,879,000	29.20	177,347
2017	20,600	259.5	5,372,000	5,345,000	134,000	5,211,000	29.20	156,141
2018	20,700	267.8	5,545,000	5,517,250	188,550	5,328,700	28.10	154,859
2019	20,800	224.4	4,670,000	4,655,950	163,450	4,492,500	29.30	136,505

1/Prior to 2018, yield was calculated based on utilized production. Beginning in 2018, yield was calculated based on total production.

2/Weighted average of co-op and independent sales. Co-op prices represent pool proceeds less returns for processing non-cranberry products, capital stock dividends, capital stock retains, and other retains.

MAPLE SYRUP: TAPS, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2015-2019

Year	Taps	Yield per tap	Production	Average price per gallon	Value of Production	Method of sale			Average season length
						Retail	Wholesale container	Bulk	
	1,000 taps	Gallons	1,000 gallons	Dollars	1,000 dollars	Percent			Days
2015	760	0.283	215	33.10	7,117	19	12	69	23
2016	765	0.307	235	33.50	7,873	22	11	67	29
2017	760	0.272	207	31.40	6,500	16	13	71	29
2018	750	0.300	225	32.40	7,290	19	16	65	36
2019	800	0.338	270	32.50	8,775	20	7	73	24

PEPPERMINT FOR OIL: HARVESTED ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2015-2019

Year	Harvested	Yield per acre	Production	Value	
				Per pound	Total
	Acres	Pounds	1,000 lbs	Dollars	1,000 dollars
2015	(D)	(D)	(D)	(D)	(D)
2016	3,000	59	177	24.90	4,407
2017	2,800	73	204	18.50	3,774
2018	2,900	59	171	(D)	(D)
2019	(D)	(D)	(D)	(D)	(D)

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

POTATOES: ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2015-2019

Year	Planted	Harvested	Yield per acre	Production	Value	
					Per cwt.	Total
					Dollars	1,000 dollars
Acres		Cwt.	1,000 cwt.			
2015	67,000	66,500	445	29,593	9.70	287,052
2016	69,000	68,000	435	29,580	11.60	343,128
2017	71,000	70,000	425	29,750	10.90	324,275
2018	69,000	67,000	405	27,135	10.50	284,918
2019	70,000	68,000	415	28,220	11.60	327,352

VEGETABLES: ACREAGE, YIELD, PRODUCTION, AND PRICE BY UTILIZATION, WISCONSIN: 2016-2019

Year	Planted	Harvested	Yield per acre	Utilized production			Price			Value of utilized production		
	All	All	All	Fresh	Processed	All	Fresh	Processed	All	Fresh	Processed	All
	Acres	Acres	Cwt.	1,000 cwt.	Tons	1,000 cwt.	Dollars per cwt.	Dollars per ton	Dollars per cwt.	1,000 dollars		
CABBAGE												
2016	4,100	4,000	665	(D)	(D)	2,660	(D)	(D)	11.90	(D)	(D)	31,721
2017	5,200	5,100	550	(D)	(D)	2,805	(D)	(D)	15.30	(D)	(D)	42,918
2018	3,400	3,300	405	(D)	(D)	1,337	(D)	(D)	8.00	(D)	(D)	10,698
2019	5,300	5,000	265	(D)	(D)	1,325	(D)	(D)	11.80	(D)	(D)	15,598
CARROTS												
2016	4,600	4,500	500	14	111,825	2,250	110.00	81.40	4.71	1,485	9,103	10,588
2017	4,500	4,500	560	3	125,622	2,515	111.00	68.00	3.51	278	8,542	8,820
2018	4,100	4,000	430	3	85,570	1,715	138.00	77.40	4.14	469	6,623	7,092
2019	3,600	3,300	485	(D)	(D)	1,601	(D)	(D)	4.36	(D)	(D)	6,977
CUCUMBERS												
2016	6,300	6,200	125	17	37,898	775	51.00	220.00	11.90	872	8,338	9,210
2017	6,100	5,900	125	(D)	(D)	736	(D)	(D)	15.70	(D)	(D)	11,531
2018	5,100	5,100	120	(D)	(D)	603	(D)	(D)	21.40	(D)	(D)	12,913
2019	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
GREEN PEAS												
2016	28,700	27,100	47	3	63,558	1,274	169.00	198.00	10.20	423	12,584	13,007
2017	23,800	22,500	43	13	47,746	968	329.00	214.00	14.80	4,145	10,218	14,363
2018	24,900	23,300	42	1	48,881	979	275.00	236.00	12.10	275	11,536	11,811
2019	28,000	26,500	41	1	54,271	1,087	281.00	202.00	10.40	309	10,963	11,272
PUMPKINS												
2016	3,700	3,200	110	331	-	331	18.90	-	18.90	6,254	-	6,254
2017	4,000	2,800	150	397	-	397	27.80	-	27.80	11,023	-	11,023
2018	4,100	3,700	66	215	-	215	13.00	-	13.00	2,791	-	2,791
2019	(D)	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)	-	(D)
SNAP BEANS												
2016	71,800	66,600	110	7	365,934	7,326	35.30	124.00	6.23	258	45,376	45,634
2017	66,600	62,500	105	105	322,875	6,563	43.80	110.00	6.11	4,599	35,516	40,115
2018	67,000	63,500	100	318	300,990	6,337	52.20	104.00	7.55	16,574	31,303	47,877
2019	65,000	63,500	98	342	294,037	6,223	38.40	99.00	6.79	13,144	29,110	42,254
SWEET CORN												
2016	61,500	60,300	170	574	483,847	10,251	27.80	68.20	4.78	15,960	32,998	48,958
2017	56,700	54,900	176	406	462,346	9,653	30.80	70.00	4.65	12,499	32,364	44,863
2018	59,300	56,400	170	326	463,100	9,588	26.80	67.90	4.19	8,737	31,444	40,181
2019	53,400	49,400	175	354	411,070	8,576	21.60	62.80	3.90	7,655	25,815	33,470

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

2017 CENSUS OF AGRICULTURE

Fruit & Vegetables

Full results available at:
www.nass.usda.gov/AgCensus

BERRIES, NON-CITRUS FRUITS AND NUTS: NUMBER OF OPERATIONS AND TOTAL ACRES, CENSUS OF AGRICULTURE, WISCONSIN, 2012 AND 2017

Crop	2012		2017	
	Number of Operations	Total Acres	Number of Operations	Total Acres
Berries	1,099	22,362	1,201	23,172
Aronia Berries	(NA)	(NA)	51	77
Blackberries 1/	74	48	82	68
Blueberries, Tame	224	383	269	358
Blueberries, Wild	8	16	11	9
Boysenberries	-	-	4	(D)
Cranberries	241	20,641	234	21,514
Currants, All	36	10	72	32
Elderberries	(NA)	(NA)	75	19
Loganberries	-	-	4	(D)
Raspberries, All	417	251	364	209
Strawberries	465	973	411	862
Other Berries 2/	44	39	48	22
Non-Citrus Fruits	1,276	9,252	1,452	7,852
Apples	1,012	5,520	1,076	4,673
Apricots	18	4	30	9
Cherries, Sweet	109	131	67	73
Cherries, Tart	178	2,577	140	1,982
Figs	-	-	2	(D)
Grapes	412	817	428	917
Kiwifruit	-	-	1	(D)
Nectarines	3	(Z)	4	(D)
Peaches	93	31	97	34
Pears	208	105	257	102
Persimmons	1	(D)	9	2
Plums & Prunes	156	65	119	47
Other Non-Citrus Fruit	3	(D)	17	12
Nuts	93	229	189	511
Almonds	-	-	2	(D)
Chestnuts	8	24	29	31
Hazelnuts	41	60	90	157
Pecans, All	2	(D)	4	(D)
Walnuts, English	8	(D)	33	127
Other Nuts	42	130	65	195

- Represents zero. (D) Withheld to avoid disclosing data for individual farms. (NA) Not available. (Z) Less than half of the unit shown. 1/ Includes dewberries and marionberries. 2/ In 2012 this category included Aronia berries and Elderberries which are reported separately in 2017. Data are not directly comparable.

VEGETABLES, POTATOES, AND MELONS: NUMBER OF OPERATIONS AND ACRES HARVESTED, CENSUS OF AGRICULTURE, WISCONSIN, 2012 AND 2017

Crop	2012		2017	
	Number of Operations	Acres Harvested for All Purposes	Number of Operations	Acres Harvested for All Purposes
Total Vegetables, Potatoes, And Melons	2,873	288,528	3,157	251,094
Artichokes, Excl. Jerusalem	-	-	25	3
Asparagus, Bearing Age	178	222	340	310
Beans, Green Lima	106	5,720	60	4,978
Beans, Snap	1,031	71,396	986	63,842
Beets	234	3,526	549	4,070
Broccoli	138	80	387	174
Brussels Sprouts	58	24	251	79
Cabbage, Chinese	34	35	242	63
Cabbage, Head	219	5,396	518	4,593
Cabbage, Mustard	-	-	33	7
Carrots	180	4,304	484	4,210
Cauliflower	74	95	245	201
Celery	138	(D)	22	(D)
Chicory	-	-	21	3
Collards	31	42	100	58
Cucumbers And Pickles	307	5,559	696	5,903
Daikon	6	1	86	13
Eggplant	102	34	332	77
Escarole And Endive	6	3	30	6
Garlic	148	73	425	134
Ginger Root	-	-	5	1
Ginseng	68	267	101	962
Herbs, Fresh Cut	71	66	313	80
Horseradish	8	(D)	15	(D)
Kale	92	78	400	156
Lettuce, All	144	(D)	469	174
Melons, Cantaloupe And Musk	166	163	310	212
Melons, Honeydew	26	16	72	31
Melons, Watermelon	136	149	377	344
Mustard Greens	16	(D)	106	101
Okra	21	4	45	9
Onions, Dry	255	2,072	527	1,829
Onions, Green	79	26	343	79
Parsley	31	19	178	29
Peas, Sugar & Snow	72	417	240	1,873
Peas, Green	540	37,162	512	22,029
Peas, Southern, Blackeyed, Etc	-	-	3	(D)
Peppers, Bell	624	453	665	485
Peppers, Other Than Bell	395	329	416	382
Potatoes	718	66,400	717	70,110
Pumpkins	829	2,736	823	3,401
Radishes	76	41	331	93
Rhubarb	67	19	225	48
Spinach	71	27	288	63
Squash, All	496	1,007	922	1,326
Squash, Summer	203	230	558	(D)
Squash, Winter	411	777	755	(D)
Sweet Corn	966	78,245	871	56,615
Sweet Potatoes	42	23	144	335
Tomatoes, Grown In The Open	859	570	848	510
Turnip Greens	14	30	69	29
Turnips	42	19	183	37
Watercress	-	-	7	2
Other Vegetables	206	501	321	359

- Represents zero. (D) Withheld to avoid disclosing data for individual operations. (NA) Not available.

Livestock & Dairy

In 2019, Wisconsin produced 30.6 billion pounds of milk, a less than 1 percent increase over the previous year. The number of milk cows declined slightly, averaging 1.26 million head. Milk per cow rose from 24,002 pounds in 2018 to 24,152 in 2019. Milk prices began at \$16.30 per hundredweight (cwt.) in January and rose throughout the year, ending at \$21.40 per cwt in December.

Wisconsin maintained its status as the nation's largest cheese producer in 2019, with 26 percent of the nation's production. From 2018 to 2019, the state's total cheese production fell 2 percent to 3.36 billion pounds. Italian cheese production was down 2 percent to 1.70 billion pounds, comprising 51 percent of Wisconsin's total production. Production of American cheeses also fell 2 percent to 1.00 billion pounds. Specialty cheese production grew from 803 million pounds in 2018 to 818 million pounds in 2019, accounting for 24 percent of the state's total cheese production.

The total inventory of cattle and calves on January 1, 2020 was 3.45 million head, the same as the previous year. The number of milk cows fell 10,000 head from the previous year, to 1,260,000 head. The number of beef cows rose 20,000 head to 310,000 head. On the U.S. level, slaughter prices rose \$1.00 to \$116.00 per cwt. for cattle and fell \$11.00 to \$159.00 per cwt. for calves. Wisconsin's total value of production fell 1 percent to \$1.59 billion.

As of December 1, 2019, hog inventory totaled 365,000 head, 45,000 more than a year earlier. Pork production totaled 218 million pounds (live weight basis), up 28 percent. Average price per cwt. on the U.S. level rose 2 percent to \$51.40. Wisconsin's value of production rose 28 percent, from \$110 million in 2018 to \$141 million in 2019.

Sheep and lamb inventory was 81,000 head as of January 1, 2020, up 6,000 from the previous year. Wool production rose 3 percent to 340,000 pounds and the average price for wool fell to \$0.55 per pound. Milk goat inventory rose 14 percent to 82,000 head in total. Wisconsin continues to have the largest number of milk goats in the nation with 19 percent of the U.S. total.

Egg production increased 4 percent to 2.16 billion eggs for the year ending November 30, 2019. There were 7.33 million layers, with an average of 295 eggs per layer. Egg prices fell 38 percent to \$0.63 per dozen in 2019. The value of production was down 36 percent to \$113 million.

In 2019, broiler production was 58.5 million head, up 5 percent. The price of broilers decreased 13 percent to 49 cents per pound. This resulted in a 13 percent decrease in the value of broiler production.

The total sales value of trout rose 2 percent in 2019 to 1.53 million dollars.

Wisconsin produced 1.02 million mink pelts in 2019, down 1 percent from 2018. Wisconsin produced more mink pelts than any other state, with 38 percent of the nation's total production. The U.S. average price per pelt fell 18 percent to \$21.90. The total value of pelts produced in Wisconsin was \$22.3 million.

Honey production fell 6 percent, from 2.30 million pounds in 2018 to 2.16 million pounds in 2019. Honey-producing colonies fell by 5,000 to 46,000. Yield per colony increased 4 percent, from an average of 45 pounds in 2018 to an average of 47 pounds in 2019. The average price of honey was up 4 cents to \$2.99 per pound.



LIVESTOCK AND DAIRY RECORDS IN WISCONSIN AGRICULTURE

Commodity	Unit	2019	Record high		Record low		Year estimate started
			Quantity	Year 1/	Quantity	Year 1/	
Cattle, all, Jan. 1	Head	3,450,000 2/	4,640,000	1975	642,000	1867	1867
Milk cows, Jan. 1	Head	1,260,000 2/	2,585,000	1946	245,000	1867	1867
Beef cows, Jan. 1	Head	310,000 2/	350,000	1976	16,000	1939	1920
Milk production	Mil. lbs.	30,601	30,601	2019	2,612	1889	1889
Milk per cow per year	Pounds	24,152	24,152	2019	5,100	1934	1933
Hogs, all, Dec. 1	Head	365,000	2,516,000	1943	295,000	2013	1866
Sheep & lambs, Jan. 1	Head	81,000 2/	543,000	1932	75,000	2019	1920
Milk goats, Jan. 1	Head	82,000 2/	82,000	2020	35,000	2008	2008
Layers, annual average	Head	7,327,000	18,848,000	1944	3,175,000	1993	1924
Egg production	Mil. eggs	2,163	2,411	1944	820	1993	1925
Total cheese	Thous. lbs.	3,363,863	3,422,961	2018	275,528	1922	1920
American cheese	Thous. lbs.	1,003,082	1,158,909	1983	215,400	1922	1920
Italian cheese	Thous. lbs.	1,698,941	1,729,627	2018	124	1925	1920
Hispanic cheese	Thous. lbs.	98,242	98,242	2019	14,447	1997	1997
Muenster cheese	Thous. lbs.	63,837	81,957	1987	5,044	1931	1931
Swiss cheese	Thous. lbs.	16,974	53,581	1988	16,651	2015	1970

1/These are the latest years that records were achieved. In some cases, these records were equaled in several earlier years. 2/Inventory as of January 1, 2020.

**LIVESTOCK: NUMBER OF HEAD AND VALUE,
WISCONSIN, JANUARY 1, 2020**

Commodity	Head	Value per head	Total value
	1,000	Dollars	1,000 dollars
Cattle and calves, all	3,450	930.00	3,208,500
Hogs and pigs, all 1/	365	101.00	36,865
Sheep and lambs, all	81	214.00	17,334
Chickens, total 1/ 2/	9,699	2.50	24,248

1/December 1 previous year. 2/Does not include commercial broilers.

MILK COWS: PRODUCTION PER COW AND TOTAL MILK PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019

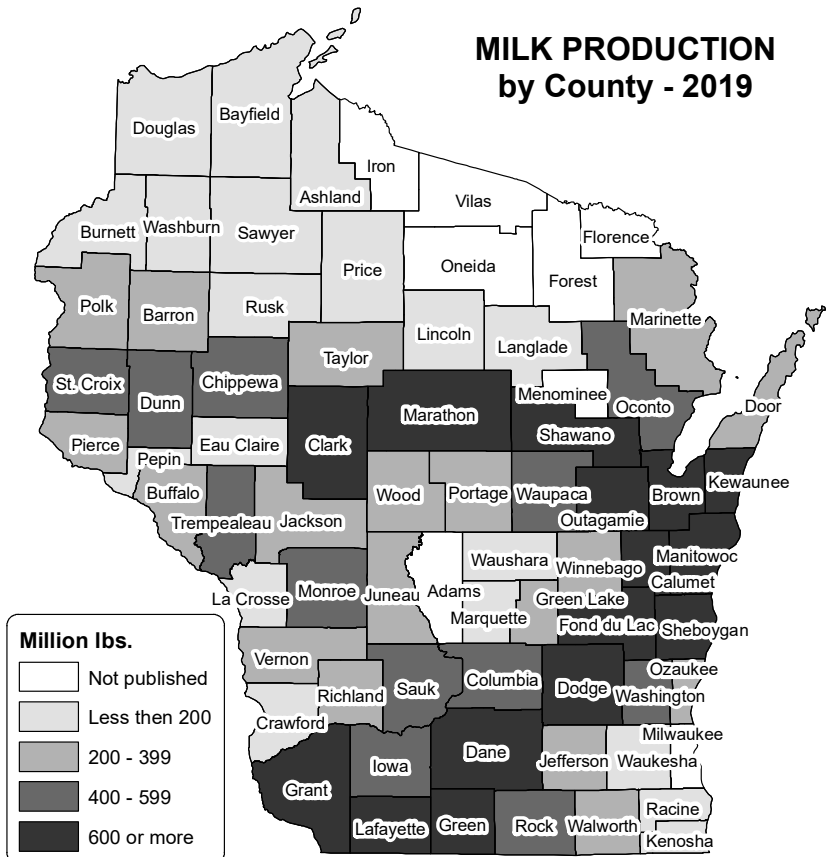
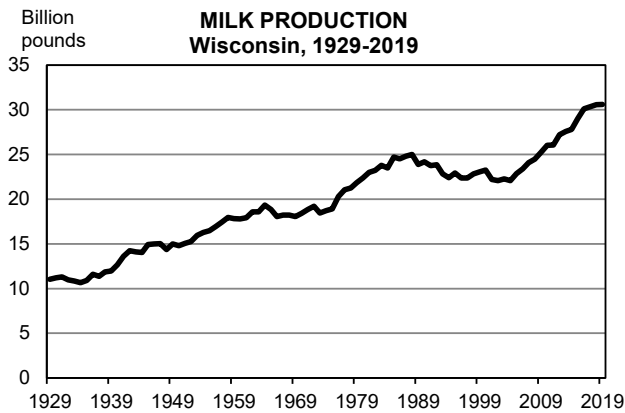
County	2018			2019		
	Number of cows 1/	Milk per cow	Production	Number of cows 1/	Milk per cow	Production
	Number	Pounds	1,000 lbs.	Number	Pounds	1,000 lbs.
Adams 2/	-	-	-	-	-	-
Ashland	2,500	22,500	56,250	2,500	22,800	57,000
Barron	21,000	18,500	388,500	20,500	18,500	379,250
Bayfield	1,400	18,200	25,480	1,000	18,300	18,300
Brown	45,000	28,200	1,269,000	45,500	28,400	1,292,200
Buffalo	16,700	20,700	345,690	16,800	20,700	347,760
Burnett	3,700	18,400	68,080	3,600	18,700	67,320
Calumet	31,000	27,600	855,600	31,500	27,700	872,550
Chippewa	26,000	21,000	546,000	25,000	21,100	527,500
Clark	67,000	22,900	1,534,300	66,000	22,900	1,511,400
Columbia	18,400	26,200	482,080	18,000	26,200	471,600
Crawford	6,800	18,000	122,400	6,700	17,900	119,930
Dane	54,000	27,600	1,490,400	53,000	27,800	1,473,400
Dodge	41,000	25,200	1,033,200	41,000	25,300	1,037,300
Door	10,200	20,900	213,180	10,000	21,000	210,000
Douglas	400	16,900	6,760	400	17,000	6,800
Dunn	19,000	21,700	412,300	24,000	21,900	525,600
Eau Claire	7,400	18,400	136,160	7,100	18,500	131,350
Florence 2/	-	-	-	-	-	-
Fond du Lac	59,000	26,400	1,557,600	59,000	26,500	1,563,500
Forest 2/	-	-	-	-	-	-
Grant	44,000	21,900	963,600	42,500	22,000	935,000
Green	26,000	24,100	626,600	28,000	24,400	683,200
Green Lake	9,500	22,800	216,600	9,400	22,900	215,260
Iowa	21,000	19,700	413,700	20,500	19,900	407,950
Iron 2/	-	-	-	-	-	-
Jackson	13,000	20,700	269,100	12,200	20,600	251,320
Jefferson	14,800	24,900	368,520	14,500	25,200	365,400
Juneau	10,500	21,200	222,600	10,500	21,200	222,600
Kenosha	3,500	23,800	83,300	3,500	23,800	83,300
Kewaunee	52,000	26,700	1,388,400	53,000	26,900	1,425,700
La Crosse	7,500	18,600	139,500	7,000	18,500	129,500
Lafayette	30,500	20,800	634,400	30,000	20,900	627,000
Langlade	7,700	23,500	180,950	8,300	23,800	197,540
Lincoln	3,800	21,200	80,560	3,700	21,300	78,810
Manitowoc	55,000	27,800	1,529,000	58,000	27,900	1,618,200
Marathon	64,000	22,700	1,452,800	63,000	22,700	1,430,100
Marinette	15,500	25,400	393,700	15,400	25,600	394,240
Marquette	5,300	25,700	136,210	5,000	25,900	129,500
Menominee 2/	-	-	-	-	-	-
Milwaukee 2/	-	-	-	-	-	-
Monroe	23,500	20,900	491,150	22,000	20,900	459,800
Oconto	21,000	25,600	537,600	21,000	25,900	543,900
Oneida 2/	-	-	-	-	-	-
Outagamie	36,500	27,400	1,000,100	36,500	27,400	1,000,100
Ozaukee	9,400	25,400	238,760	9,200	25,500	234,600
Pepin	7,700	25,100	193,270	7,500	25,200	189,000
Pierce	15,000	21,000	315,000	14,800	21,000	310,800
Polk	14,300	19,400	277,420	14,000	19,500	273,000
Portage	12,000	22,600	271,200	11,900	22,600	268,940
Price	4,500	20,700	93,150	4,600	20,700	95,220
Racine	3,800	25,900	98,420	3,300	26,200	86,460

MILK COWS: PRODUCTION PER COW AND TOTAL MILK PRODUCTION, BY COUNTY, WISCONSIN, 2018-2019

County	2018			2019		
	Number of cows 1/	Milk per cow	Production	Number of cows 1/	Milk per cow	Production
	Number	Pounds	1,000 lbs.	Number	Pounds	1,000 lbs.
Richland	15,100	20,700	312,570	14,800	20,600	304,880
Rock	17,300	25,300	437,690	17,700	25,500	451,350
Rusk	9,200	20,600	189,520	9,000	20,900	188,100
Sauk	21,000	21,500	451,500	20,500	21,600	442,800
Sawyer	3,600	21,400	77,040	3,100	21,800	67,580
Shawano	38,000	26,000	988,000	37,000	26,300	973,100
Sheboygan	28,000	26,600	744,800	28,000	26,600	744,800
St. Croix	17,900	24,100	431,390	17,000	24,200	411,400
Taylor	15,000	20,400	306,000	14,800	20,600	304,880
Trempealeau	20,500	21,200	434,600	20,000	21,100	422,000
Vernon	19,000	18,300	347,700	17,000	18,500	314,500
Vilas 2/	-	-	-	-	-	-
Walworth	14,200	27,500	390,500	14,200	27,700	393,340
Washburn	2,900	23,700	68,730	2,800	23,900	66,920
Washington	15,200	26,400	401,280	15,800	26,600	420,280
Waukesha	1,800	26,600	47,880	1,800	26,600	47,880
Waupaca	22,500	24,600	553,500	23,000	24,600	565,800
Waushara	6,600	25,500	168,300	6,000	25,800	154,800
Winnebago	14,900	24,900	371,010	14,700	25,200	370,440
Wood	17,800	22,200	395,160	17,500	22,200	388,500
Wisconsin	1,274,000	24,002	30,579,000	1,267,000	24,152	30,601,000

1/Average number of milk cows on farms during year, excluding heifers not yet fresh. 2/Not published, but included in state total.

Source: Wisconsin Department of Agriculture, Trade, and Consumer Protection



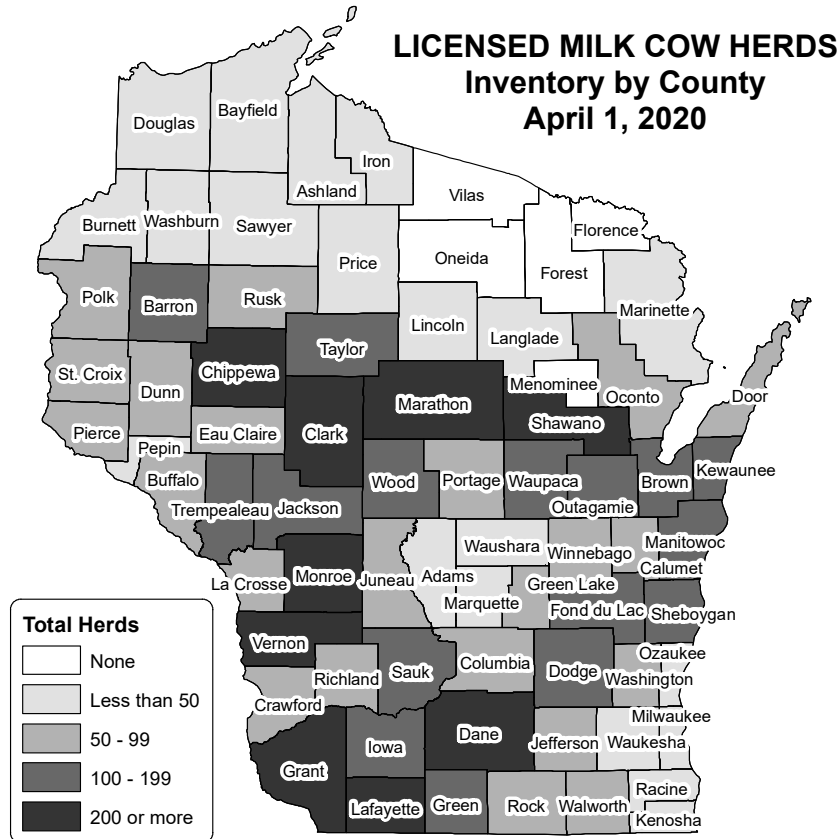
WISCONSIN MILK COW HERDS BY TYPE OF MILK PRODUCED: NUMBER AND PERCENT BY COUNTY, 2020 1/

County	Total Grade A		Total Grade B			Percent of total	Total herds
	Herds	Percent of total	Herds				
			Bulk	Can	Total		
Adams	10	91%	1	0	1	9%	11
Ashland	11	100%	0	0	0	0%	11
Barron	120	95%	6	0	6	5%	126
Bayfield	13	93%	1	0	1	7%	14
Brown	119	99%	1	0	1	1%	120
Buffalo	85	98%	2	0	2	2%	87
Burnett	22	92%	1	1	2	8%	24
Calumet	79	99%	1	0	1	1%	80
Chippewa	198	98%	5	0	5	2%	203
Clark	622	85%	20	87	107	15%	729
Columbia	69	73%	1	25	26	27%	95
Crawford	60	100%	0	0	0	0%	60
Dane	199	97%	5	1	6	3%	205
Dodge	184	99%	1	0	1	1%	185
Door	53	98%	1	0	1	2%	54
Douglas	6	100%	0	0	0	0%	6
Dunn	94	96%	4	0	4	4%	98
Eau Claire	53	59%	4	33	37	41%	90
Florence	0	0%	0	0	0	0%	0
Fond du Lac	181	99%	2	0	2	1%	183
Forest	0	0%	0	0	0	0%	0
Grant	311	98%	5	0	5	2%	316
Green	136	74%	47	0	47	26%	183
Green Lake	36	59%	1	24	25	41%	61
Iowa	138	94%	9	0	9	6%	147
Iron	4	100%	0	0	0	0%	4
Jackson	70	63%	10	32	42	38%	112
Jefferson	79	100%	0	0	0	0%	79
Juneau	51	100%	0	0	0	0%	51
Kenosha	18	100%	0	0	0	0%	18
Kewaunee	120	96%	5	0	5	4%	125
La Crosse	57	98%	1	0	1	2%	58
Lafayette	193	93%	14	0	14	7%	207
Langlade	33	100%	0	0	0	0%	33
Lincoln	28	97%	1	0	1	3%	29
Manitowoc	172	99%	1	0	1	1%	173
Marathon	409	94%	24	0	24	6%	433
Marinette	46	100%	0	0	0	0%	46
Marquette	17	63%	2	8	10	37%	27
Milwaukee	0	0%	1	0	1	100%	1
Monroe	123	54%	1	103	104	46%	227
Oconto	96	98%	2	0	2	2%	98
Oneida	0	100%	0	0	0	0%	0
Outagamie	136	97%	4	0	4	3%	140
Ozaukee	34	100%	0	0	0	0%	34
Pepin	40	98%	1	0	1	2%	41
Pierce	90	99%	1	0	1	1%	91
Polk	80	98%	2	0	2	2%	82
Portage	73	96%	3	0	3	4%	76
Price	35	92%	3	0	3	8%	38
Racine	18	100%	0	0	0	0%	18
Richland	70	88%	3	7	10	13%	80
Rock	72	100%	0	0	0	0%	72
Rusk	81	95%	4	0	4	5%	85
St. Croix	92	96%	2	2	4	4%	96
Sauk	131	92%	11	0	11	8%	142
Sawyer	11	100%	0	0	0	0%	11
Shawano	204	97%	6	0	6	3%	210
Sheboygan	114	98%	2	0	2	2%	116
Taylor	166	94%	10	0	10	6%	176
Trempealeau	101	93%	6	2	8	7%	109
Vernon	126	48%	3	135	138	52%	264

WISCONSIN MILK COW HERDS BY TYPE OF MILK PRODUCED: NUMBER AND PERCENT BY COUNTY, 2020 1/

County	Total Grade A		Total Grade B			Total herds	
	Herds	Percent of total	Herds				Percent of total
			Bulk	Can	Total		
Walworth	52	98%	1	0	1	2%	53
Washburn	12	86%	2	0	2	14%	14
Washington	75	100%	0	0	0	0%	75
Waukesha	16	100%	0	0	0	0%	16
Waupaca	114	93%	8	0	8	7%	122
Waushara	27	96%	1	0	1	4%	28
Winnebago	55	100%	0	0	0	0%	55
Wood	141	97%	4	0	4	3%	145
Wisconsin	6,481	90%	257	460	717	10%	7,198

1/ Based on data from the Dairy Producer License list as of April 1, 2020, Division of Food and Recreational Safety, Wisconsin Department of Agriculture, Trade and Consumer Protection.



**NUMBER OF MILK COW HERDS:
BY MONTHS, WISCONSIN, 2017-2020 1/**

Month	2017	2018	2019	2020
January	9,304	8,801	8,110	7,292
February	9,288	8,760	8,046	7,258
March	9,261	8,719	7,983	7,228
April	9,236	8,649	7,898	7,198
May	9,167	8,595	7,808	7,168
June	9,106	8,517	7,722	7,123
July	9,046	8,463	7,661	7,079
August	9,021	8,419	7,619	7,049
September	8,970	8,372	7,559	7,026
October	8,938	8,304	7,476	
November	8,877	8,217	7,392	
December	8,839	8,163	7,337	

1/Based on data from the Dairy Producer License list as of the beginning of the month, Division of Food and Recreational Safety, Wisconsin Department of Agriculture, Trade and Consumer Protection.

**NUMBER OF MILK GOAT AND SHEEP HERDS:
BY MONTHS, WISCONSIN, 2017-2020 1/**

Month	2017	2018	2019	2020
January	344	353	371	342
February	350	372	371	340
March	360	376	382	346
April	369	369	379	343
May	379	399	377	347
June	381	397	374	343
July	389	394	370	339
August	389	392	367	336
September	391	388	360	334
October	386	386	361	
November	381	385	351	
December	378	374	349	

1/Based on data from the Dairy Producer License list as of the beginning of the month, Division of Food Recreational Safety, Wisconsin Department of Agriculture, Trade and Consumer Protection.

MILK COW NUMBERS: BY MONTHS, WISCONSIN, 2015-2019 1/

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	1,000 head												
2015	1,275	1,275	1,276	1,278	1,280	1,280	1,280	1,280	1,279	1,279	1,280	1,280	1,279
2016	1,280	1,280	1,280	1,279	1,279	1,278	1,278	1,278	1,277	1,277	1,278	1,279	1,279
2017	1,280	1,280	1,280	1,279	1,279	1,278	1,278	1,278	1,277	1,277	1,277	1,276	1,278
2018	1,275	1,275	1,274	1,274	1,274	1,274	1,274	1,274	1,273	1,273	1,272	1,271	1,274
2019	1,270	1,270	1,270	1,269	1,269	1,268	1,268	1,267	1,266	1,265	1,264	1,262	1,267

1/Excludes heifers not yet fresh.

MILK PRODUCTION PER COW: BY MONTHS, WISCONSIN, 2015-2019

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	Pounds												
2015	1,890	1,715	1,905	1,875	1,975	1,915	1,960	1,940	1,845	1,905	1,845	1,935	22,697
2016	1,965	1,855	2,000	1,965	2,065	1,985	2,010	1,990	1,910	1,950	1,895	1,960	23,542
2017	1,980	1,820	2,035	1,985	2,055	1,980	2,025	2,025	1,930	1,995	1,910	1,990	23,735
2018	2,000	1,825	2,045	1,985	2,090	2,030	2,065	2,060	1,965	1,995	1,925	2,025	24,002
2019	2,060	1,860	2,055	2,000	2,095	2,040	2,050	2,070	1,975	2,010	1,915	2,015	24,152

MILK PRODUCTION: BY MONTHS, WISCONSIN, 2015-2019

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	Million pounds												
2015	2,410	2,187	2,431	2,396	2,528	2,451	2,509	2,483	2,360	2,436	2,362	2,477	29,030
2016	2,515	2,374	2,560	2,513	2,641	2,537	2,569	2,543	2,439	2,490	2,422	2,507	30,110
2017	2,534	2,330	2,605	2,539	2,628	2,530	2,588	2,588	2,465	2,548	2,439	2,539	30,333
2018	2,550	2,327	2,605	2,529	2,663	2,586	2,631	2,624	2,501	2,540	2,449	2,574	30,579
2019	2,616	2,362	2,610	2,538	2,659	2,587	2,599	2,623	2,500	2,543	2,421	2,543	30,601

AVERAGE HERD SIZE: ALL DAIRY FARMS & DHI FARMS, WISCONSIN, SELECTED YEARS

Year	All herds 1/	DHI herds 2/
	Number	
1970	28.3	37.7
1975	34.2	43.4
1980	40.3	49.0
1985	45.8	50.1
1990	50.9	52.8
1995	53.2	60.2
2000	64.0	78.3
2005	80.8	98.8
2010	99.3	137.4
2015	129.2	180.6
2019	164.1	243.8

1/Prior to 2008, average herd size was calculated as number of milk cows divided by number of operations having at least one milk cow during the year. Starting in 2009, average herd size is calculated as number of milk cows divided by licensed milk cow herds.

2/ Source: AgSource Cooperative Services.

MILK COWS AND PRODUCTION: UNITED STATES, 2015-2019

Year	Milk cows 1/	Milk per cow 2/	Total production 2/
	1,000 head	Pounds	Million pounds
2015	9,320	22,372	208,508
2016	9,334	22,761	212,451
2017	9,406	22,914	215,527
2018	9,398	23,150	217,568
2019	9,336	23,391	218,382

1/Average number of milk cows on farms during year, excluding heifers not yet fresh. 2/Excludes milk sucked by calves.

**MILK PRICES AND MILKFAT CONTENT:
WISCONSIN, 2019**

Month	Milk, all uses	
	Price	Milkfat
	Dollars per cwt.	Percent
January	16.30	3.98
February	16.40	3.99
March	17.30	3.96
April	17.90	3.89
May	18.20	3.85
June	17.90	3.78
July	18.80	3.72
August	19.10	3.77
September	19.90	3.86
October	20.70	3.96
November	22.50	4.05
December	21.40	4.00
Annual	18.80	3.90

**DISPOSITION OF MILK SOLD:
WISCONSIN, SELECTED YEARS**

Year	Grade A	Percent	Grade B	Percent	Total
	Mil. lbs.		Mil. lbs.		Mil. lbs.
1955	4,950	32	10,509	68	15,459
1960	6,334	37	10,576	63	16,910
1965	7,688	42	10,450	58	18,138
1970	9,667	54	8,189	46	17,856
1975	11,652	63	6,703	37	18,355
1980	15,425	71	6,433	29	21,858
1985	18,265	75	5,965	25	24,230
1990	20,512	86	3,338	14	23,850
1995	20,818	92	1,854	8	22,672
2000	21,598	94	1,379	6	22,977
2005	21,709	96	905	4	22,614
2010	25,244	98	515	2	25,759
2015	28,483	99	288	1	28,771
2019	30,045	99	303	1	30,348

**MILK PRICES AND MILKFAT CONTENT:
WISCONSIN, 2015-2019**

Year	Milk, all uses	
	Price	Milkfat
	Dollars per cwt.	Percent
2015	17.80	3.76
2016	16.80	3.78
2017	18.10	3.82
2018	16.50	3.89
2019	18.80	3.90

**MILK COW PRICES RECEIVED BY FARMERS:
WISCONSIN, 2015-2019**

Year	Jan.	April	July	Oct.
	Dollars per head			
2015	2,160	2,080	2,090	2,050
2016	1,910	1,910	1,820	1,760
2017	1,730	1,710	1,650	1,610
2018	1,470	1,320	1,250	1,180
2019	1,120	1,130	1,210	1,270

UPPER MIDWEST MARKET ORDER AVERAGE HAULING CHARGES: BY COUNTY, WISCONSIN, MAY 2019

County	Dollars per cwt.	County	Dollars per cwt.	County	Dollars per cwt.
Adams	0.01	Iowa	0.33	Price	0.14
Ashland	0.15	Iron	0.93	Racine	0.58
Barron	0.23	Jackson	0.21	Richland	0.37
Bayfield	0.55	Jefferson	0.34	Rock	0.19
Brown	0.17	Juneau	0.43	Rusk	0.49
Buffalo	0.43	Kenosha	0.54	St Croix	0.16
Burnett	0.15	Kewaunee	0.09	Sauk	0.42
Calumet	0.32	La Crosse	0.49	Sawyer	0.41
Chippewa	0.30	LaFayette	0.31	Shawano	0.20
Clark	0.14	Langlade	0.23	Sheboygan	0.31
Columbia	0.33	Lincoln	0.26	Taylor	0.24
Crawford	0.49	Manitowoc	0.18	Trempealeau	0.40
Dane	0.34	Marathon	0.13	Vernon	0.52
Dodge	0.34	Marinette	0.29	Walworth	0.34
Door	0.15	Marquette	0.20	Washburn	0.56
Douglas	0.52	Monroe	0.40	Washington	0.33
Dunn	0.27	Oconto	0.16	Waukesha	0.46
Eau Claire	0.38	Outagamie	0.08	Waupaca	0.21
Florence	(D)	Ozaukee	0.26	Waushara	0.07
Fond du Lac	0.15	Pepin	0.29	Winnebago	0.11
Grant	0.35	Pierce	0.32	Wood	0.12
Green	0.18	Polk	0.22		
Green Lake	0.14	Portage	0.11	Wisconsin	0.24

(D) Not published to avoid disclosing individual operations. Source: Agricultural Marketing Service, FMMO 30

**NUMBERS AND AVERAGE PRODUCTION OF COWS ON DHI TEST,
WISCONSIN AND UNITED STATES, 2018-2019**

Area and kind	Herds		Milk Cows		Production per cow						
	2018	2019	2018	2019	2018 1/			2019 1/			
					Milk	Fat	Protein	Milk	Fat	Protein	
	Number				Pounds						
WISCONSIN											
Official	2,178	1,954	645,229	624,927	26,473	1,021	825	26,805	1,037	837	
Non-official (management)	1,279	1,138	140,294	128,910	23,046	921	714	23,317	930	723	
Total	3,457	3,092	785,523	753,837	25,861	1,003	805	26,209	1,019	818	
UNITED STATES											
Official	10,846	9,742	3,705,123	3,617,152	24,660	956	781	24,787	970	789	
Non-official (management)	4,712	4,174	597,130	553,465	22,237	867	692	22,340	541	366	
Total	15,558	13,916	4,302,253	4,170,617	24,324	944	769	24,462	913	733	

1/ Milk, fat, and protein totals are weighted based on number of milk cows.

DHI PRODUCTION AVERAGES BY BREED: WISCONSIN, 2018-2019

Breeds	2018						2019					
	Herds	Milk	Fat	Test	Protein	Test	Herds	Milk	Fat	Test	Protein	Test
Ayrshire	21	19,168	740	3.86	595	3.10	22	18,422	719	3.90	580	3.15
Brown Swiss	69	20,840	871	4.18	709	3.40	67	20,258	854	4.22	692	3.42
Guernsey	33	18,096	820	4.53	617	3.41	28	17,382	787	4.53	593	3.41
Holstein	2,509	26,105	992	3.80	807	3.09	1,905	26,537	1,030	3.88	825	3.11
Jersey	148	17,911	898	5.01	658	3.67	147	18,117	909	5.02	658	3.63
Milking Shorthorn /Red and White	16	15,572	623	4.00	491	3.15	13	13,847	546	3.94	437	3.16
All breeds	2,796	25,810	987	3.82	801	3.10	2,182	26,174	1,023	3.91	817	3.12

**WEIGHTED AVERAGE LEVELS OF
COMPONENTS & SOMATIC CELL COUNT IN MILK
ASSOCIATED WITH THE UPPER MIDWEST MILK
MARKETING ORDER, 2019**

Month	Protein	Other solids	Solids not-fat	Somatic cell count
		Percent		Average
January	3.19	5.76	8.95	176
February	3.21	5.74	8.95	172
March	3.20	5.74	8.94	173
April	3.14	5.77	8.91	167
May	3.10	5.80	8.90	170
June	3.06	5.80	8.86	174
July	2.99	5.79	8.78	195
August	3.04	5.77	8.81	196
September	3.10	5.77	8.87	180
October	3.18	5.76	8.94	169
November	3.25	5.74	8.99	152
December	3.22	5.74	8.96	160
Average	3.14	5.77	8.91	174

Source: Agricultural Marketing Service, Dairy Division, FMMO 30.

**DHI COMPONENT DATA FOR TOP 10 MILK
PRODUCING COUNTIES, WISCONSIN, 2019**

Counties ranked by production	Total number of herds tested	Butterfat average percent	Protein average percent
Manitowoc	92	3.86	3.03
Fond du Lac	74	3.75	3.09
Clark	154	4.05	3.11
Dane	123	3.75	3.09
Marathon	125	3.95	3.12
Kewaunee	19	4.00	3.23
Brown	45	3.82	3.12
Dodge	95	3.89	3.10
Outagamie	12	3.92	3.08
Shawano	34	3.84	3.08

Source: AgSource Cooperative Services

MILK PRODUCTION COSTS AND RETURNS: WISCONSIN AND UNITED STATES, 2018-2019

Item	Wisconsin		United States	
	2018	2019	2018	2019
	Dollars per cwt.			
Gross value of production:				
Milk sold	17.72	20.17	16.79	19.17
Cattle	1.19	1.18	1.24	1.23
Other income 1/	0.44	0.46	0.50	0.52
Total, gross value of production	19.35	21.81	18.53	20.92
Operating costs:				
Feed--				
Purchased feed	4.83	5.15	6.76	7.20
Homegrown harvested feed	3.63	3.88	3.08	3.29
Grazed feed	0.09	0.09	0.08	0.07
Total, feed costs	8.55	9.12	9.92	10.56
Other--				
Veterinary and medicine	0.94	0.96	0.76	0.78
Bedding and litter	0.32	0.32	0.20	0.20
Marketing	0.17	0.17	0.18	0.19
Custom services	0.59	0.61	0.66	0.67
Fuel, lube, and electricity	0.85	0.83	0.67	0.65
Repairs	0.79	0.82	0.64	0.66
Cost for third party organic certification	0.01	0.01	0.00	0.00
Interest on operating capital	0.13	0.13	0.14	0.14
Total, operating cost	12.35	12.97	13.17	13.85
Allocated overhead:				
Hired labor	1.90	2.02	1.99	2.10
Opportunity cost of unpaid labor	2.73	2.85	1.82	1.89
Capital recovery of machinery and equipment 2/	4.29	4.43	4.00	4.12
Opportunity cost of land (rental rate)	0.03	0.03	0.03	0.02
Taxes and insurance	0.24	0.24	0.18	0.18
General farm overhead	0.66	0.67	0.55	0.57
Total, allocated overhead	9.85	10.24	8.57	8.88
Total costs listed	22.20	23.21	21.74	22.73
Value of production less total costs listed	-2.85	-1.40	-3.21	-1.81
Value of production less operating costs	7.00	8.84	5.36	7.07
Supporting information:				
Milk cows (head per farm)	153	153	245	245
Output per cow (pounds)	23,382	23,382	21,698	21,698
Milking frequency more than twice per day (percent of farms)	13.02	13.02	11.54	11.54
Organic milk sold (percent of sales)	5.62	5.62	2.88	2.88

1/ Income from renting or leasing dairy stock to other operations; renting space to other dairy operations; co-op patronage dividends associated with the dairy; assessment rebates, refunds, and other dairy-related resources; and the fertilizer value of manure production. 2/ Machinery and equipment, housing, manure handling, feed storage structures, and dairy breeding herd. Source: USDA, Economic Research Service.

CHEESE PRODUCTION: WISCONSIN, 2015-2019

Year	Total Cheese 1/	Total American 2/	Hispanic	Italian	Mozzarella	Muenster	Swiss
1,000 pounds							
2015	3,069,641	909,749	77,197	1,537,095	1,051,136	60,935	16,651
2016	3,248,440	963,413	85,403	1,642,286	1,092,440	60,232	18,201
2017	3,376,769	1,016,702	90,982	1,703,029	1,110,105	61,690	16,664
2018	3,422,961	1,025,840	93,395	1,729,627	1,138,200	61,871	17,377
2019	3,363,863	1,003,082	98,242	1,698,941	1,110,363	63,837	16,974

1/ Includes cream cheese and other miscellaneous types of cheese. Does not include cottage cheese. 2/ Includes Cheddar, Colby, washed curd, stirred curd, and Monterey Jack.

**PROCESSED CHEESE AND CHEESE FOODS:
WISCONSIN, 2015-2019**

Year	Processed cheese	Processed cheese foods & spreads	Cold pack cheese & cheese food
1,000 pounds			
2015	665,990	264,920	29,135
2016	703,388	184,271	21,867
2017	716,886	161,199	25,813
2018	694,099	162,822	24,647
2019	582,021	336,670	25,116

WHEY PRODUCTS: WISCONSIN, 2015-2019

Year	Dry whey		Total lactose	Whey protein concentrate human food
	Human food	Animal		
1,000 pounds solids				
2015	308,562	4,076	221,184	107,410
2016	312,946	4,390	259,609	103,949
2017	345,567	3,795	278,454	107,971
2018	319,747	6,240	285,464	109,894
2019	285,831	4,791	260,280	105,503

**AMERICAN CHEESE PRODUCTION, BY STYLE:
WISCONSIN, 2019**

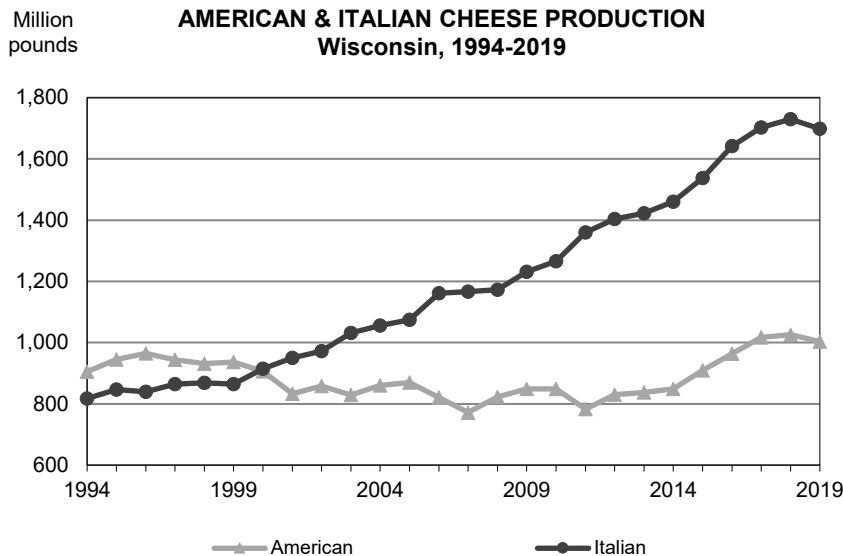
Style	Production	Percent of total 1/
1,000 lbs.		
American Cheddar		
40-lb block	252,377	25.1
640-lb block	299,527	29.9
Other types 2/	160,691	16.0
Colby	80,962	8.1
Monterey Jack	209,525	20.9
Total American types	1,003,082	100.0

1/ Percents may not add to 100 due to rounding. 2/ Includes barrels.

**ITALIAN CHEESE PRODUCTION, BY STYLE:
WISCONSIN, 2019**

Style	Production	Percent of total
1,000 lbs.		
Hard		
Asiago	33,007	1.9
Parmesan	223,017	13.1
Provolone	208,042	12.3
Romano	29,168	1.7
Soft		
Mozzarella	1,110,363	65.4
All other	95,344	5.6
All Italian	1,698,941	100.0

1/ Percents may not add to 100 due to rounding.



**TOTAL CHEESE, EXCLUDING COTTAGE
CHEESE: WISCONSIN, 2019**

Ranges of annual production	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	34	4,800
1 to 4.99 million lbs.	22	55,282
5 to 9.99 million lbs.	17	129,676
10 to 24.99 million lbs.	13	233,191
25 million lbs. and over	41	2,940,914
Total	127	3,363,863

CHEDDAR CHEESE: WISCONSIN, 2019

Ranges of annual production 1/	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	41	8,568
1 to 9.99 million lbs.	11	27,116
10 million lbs. and over	17	676,911
Total	69	712,595

1/ Plant qualifies for a certain range based only on its Cheddar production.

ITALIAN CHEESE: WISCONSIN, 2019

Ranges of annual production 1/	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	21	4,005
1 to 19.99 million lbs.	12	89,457
20 million lbs. and over	26	1,605,479
Total	59	1,698,941

1/ Plant qualifies for a certain range based only on its Italian production.

MOZZARELLA CHEESE: WISCONSIN, 2019

Ranges of annual production 1/	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	13	3,131
1 to 19.99 million lbs.	8	42,085
20 million lbs. and over	16	1,065,147
Total	37	1,110,363

1/ Plant qualifies for a certain range based only on its Mozzarella production.

SPECIALTY CHEESE PRODUCTION, WISCONSIN, 2018 AND 2019

Type	2018 number of producers	2018 revised production	2019 number of producers	2019 production	Change in production from 2018
		1,000 pounds		1,000 pounds	percent
Asiago	14	28,882	14	33,007	14
Cheddar 1/	45	28,681	44	30,216	5
Farmers	13	1,475	11	1,088	-26
Feta	9	102,505	10	101,035	-1
Gorgonzola	9	18,007	8	16,547	-8
Gouda	29	14,188	28	14,458	2
Italian Fontina	12	11,447	11	10,047	-12
Havarti	12	40,455	12	43,209	7
Hispanic	15	93,395	16	98,242	5
Limburger	1	464	1	365	-21
Monterey Jack 1/	15	9,392	16	13,126	40
Parmesan Wheel	6	70,948	6	74,656	5
Romano Wheel	8	9,516	6	9,773	3
All Other 2/	54	373,378	51	372,507	0
Total 3/ 4/	99	802,732	96	818,276	2

(D) Withheld to avoid disclosing data for individual operations. (NA) Not available. 1/ Includes only specialty types of this variety. 2/ Combined to avoid disclosure of individual plant data. Includes: : Alpine, American Grana, Auribella, Bel Paese, Blue, Brie and Camembert, Butterkase, Edam, Fior di Latte, Fontinella, Gruyere, other specialty Italian, Italico, Juustoleipa, Kasserli, Mascarpone, Middle Eastern cheeses, Morning Sun, specialty Mozzarella, other specialty Parmesan, Pepato, Peperon, specialty Provolone, other specialty Romano, Soft-ripened, specialty Swiss, Tvarog Polish, and Yogurt cheese. 3/ Total cheese plants producing one or more specialty cheeses. 4/ Data may not add to totals due to rounding.

DAIRY PLANTS MAKING SELECTED PRODUCTS: WISCONSIN, SELECTED YEARS 1/

Product	1970	1980	1985	1990	1995	2000	2005	2010	2015	2019
	Number of dairy plants									
Butter	74	35	25	15	14	12	10	(D)	(D)	(D)
Cheese										
American	368	250	198	117	85	71	63	60	64	70
Cheddar	330	209	180	99	79	65	62	59	64	69
Hispanic	(NA)	(NA)	(NA)	(NA)	(NA)	8	20	17	13	16
Italian	66	57	58	51	52	48	53	56	63	59
Mozzarella	(NA)	44	48	43	42	35	40	41	39	37
Muenster	51	43	48	34	31	26	25	26	19	20
Swiss	41	20	22	14	11	10	(D)	(D)	9	9
Total cheese 2/	481	334	284	188	142	125	114	128	127	127
Dry whey, human food	19	14	16	12	11	10	9	9	10	9
Ice cream mix (regular)	41	21	23	17	12	10	12	(D)	14	11
Total manufacturing one or more dairy products	667	425	400	286	230	205	196	210	203	199

1/ Includes only plants actually making specified product, rather than all plants licensed to make specified product. 2/ Excludes cottage and processed cheese. (D) Not published to avoid disclosing individual operations. (NA) Not available.

DAIRY PRODUCT PRICE AVERAGES: BY MONTHS, UNITED STATES, 2015-2019 1/

Year	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
	Dollars per pound											
	BUTTER (GRADE AA, 80% BUTTERFAT, SALTED, FRESH, OR STORAGE)											
2015	1.563	1.682	1.695	1.736	1.873	1.907	1.916	2.044	2.445	2.573	2.800	2.571
2016	2.076	2.135	1.991	2.019	2.058	2.162	2.316	2.225	2.078	1.864	1.909	2.100
2017	2.257	2.176	2.168	2.116	2.164	2.407	2.604	2.658	2.530	2.372	2.281	2.232
2018	2.197	2.111	2.176	2.245	2.338	2.376	2.260	2.319	2.272	2.281	2.268	2.243
2019	2.234	2.264	2.274	2.267	2.295	2.366	2.389	2.366	2.234	2.156	2.087	1.984
	NONFAT DRY MILK, (EXTRA GRADE AND USPH GRADE A, NONFORTIFIED)											
2015	1.020	1.031	1.022	0.968	0.946	0.928	0.837	0.744	0.801	0.895	0.837	0.789
2016	0.778	0.769	0.752	0.731	0.761	0.789	0.836	0.859	0.885	0.922	0.912	0.958
2017	1.023	0.993	0.849	0.839	0.870	0.914	0.899	0.873	0.850	0.810	0.755	0.724
2018	0.697	0.708	0.696	0.713	0.794	0.815	0.782	0.811	0.855	0.874	0.886	0.902
2019	0.951	0.980	0.959	0.964	1.015	1.043	1.039	1.034	1.052	1.096	1.154	1.216
	CHEDDAR CHEESE (NATURAL, UNAGED) 2/											
2015	1.581	1.545	1.575	1.612	1.656	1.722	1.700	1.739	1.715	1.679	1.650	1.572
2016	1.518	1.517	1.516	1.504	1.410	1.448	1.642	1.812	1.751	1.583	1.760	1.799
2017	1.701	1.687	1.555	1.496	1.539	1.629	1.543	1.666	1.661	1.725	1.762	1.648
2018	1.518	1.473	1.554	1.574	1.635	1.615	1.487	1.554	1.653	1.569	1.446	1.374
2019	1.387	1.394	1.538	1.647	1.697	1.691	1.824	1.828	1.905	1.969	2.172	2.051
	DRY WHEY (EXTRA GRADE, EDIBLE, NONHYGROSCOPIC)											
2015	0.588	0.517	0.482	0.461	0.445	0.425	0.394	0.311	0.244	0.231	0.234	0.234
2016	0.235	0.247	0.248	0.247	0.251	0.260	0.274	0.285	0.306	0.330	0.369	0.399
2017	0.442	0.489	0.524	0.524	0.509	0.492	0.451	0.435	0.417	0.379	0.359	0.303
2018	0.276	0.253	0.253	0.259	0.271	0.309	0.337	0.368	0.403	0.447	0.463	0.469
2019	0.481	0.455	0.413	0.392	0.378	0.364	0.363	0.367	0.370	0.340	0.307	0.329

1/ The commodity prices are AMS Dairy Product Price Averages used in the Federal Milk Order Price Formulas for Class II (butterfat), Class III, and Class IV. 2/ Cheddar cheese price is a combination of the 40-lb. cheddar block and 500-lb. cheddar barrel as used in the AMS formulas. Source: Agricultural Marketing Service (AMS).

DAIRY PRODUCTS: PER CAPITA CONSUMPTION, UNITED STATES, SELECTED YEARS

Year	Fluid milk & cream	Butter	Natural cheese	Cottage cheese	Evaporated & condensed milk	Ice cream	Lowfat ice cream	Nonfat dry milk	All dairy products, milk equivalent milkfat basis
	Pounds								
1970	275.3	5.4	11.4	5.1	12.0	16.7	6.3	5.3	565.5
1975	261.4	4.7	14.3	4.6	8.7	18.2	6.5	3.3	551.2
1980	245.5	4.5	17.5	4.4	7.0	17.1	6.1	3.0	528.7
1985	240.8	4.9	22.5	4.0	7.5	17.7	5.9	2.3	595.0
1990	233.0	4.3	24.6	3.3	7.9	15.4	6.6	2.9	551.3
1995	220.7	4.6	26.7	2.7	6.5	15.0	7.0	3.4	564.6
2000	210.5	4.5	29.5	2.6	5.8	16.1	6.6	2.7	593.3
2005	199.4	4.5	31.3	2.6	6.1	15.1	6.0	4.0	614.4
2010	195.4	4.9	32.7	2.3	7.2	14.0	6.5	3.2	588.7
2015	174.7	5.6	35.1	2.1	7.7	12.9	6.5	3.3	612.9
2017	167.8	5.7	37.0	2.1	7.1	12.8	6.7	2.8	629.3

Source: USDA, Economic Research Service

SELECTED CHEESE: PER CAPITA CONSUMPTION, UNITED STATES, SELECTED YEARS

Year	Total American	Mozzarella	Other Italian	Total Italian	Swiss	Brick & Muenster	Cream & Neufchatel	Blue & Gorgonzola	Other misc.	All cheese	Processed cheese 1/
	Pounds										
1970	7.0	1.2	0.9	2.1	0.9	0.3	0.6	0.2	0.4	11.4	5.5
1975	8.2	2.1	1.1	3.2	1.1	0.3	0.7	0.2	0.6	14.3	6.7
1980	9.6	3.0	1.4	4.4	1.3	0.4	1.0	0.2	0.6	17.5	7.1
1985	12.2	4.6	1.8	6.4	1.3	0.4	1.2	0.2	0.9	22.5	7.6
1990	11.1	6.9	2.0	8.9	1.4	0.5	1.7	0.2	0.9	24.6	8.6
1995	11.7	7.9	2.1	10.0	1.1	0.4	2.0	0.2	1.2	26.7	8.7
2000	12.7	9.1	2.4	11.4	1.0	0.3	2.4	(NA)	1.7	29.5	8.1
2005	12.7	9.9	2.7	12.7	1.2	0.3	2.4	(NA)	2.2	31.3	7.6
2010	13.3	10.6	3.0	13.5	1.2	0.4	2.3	0.3	1.7	32.7	6.6
2015	14.0	11.3	3.2	14.5	1.1	0.5	2.5	0.3	2.2	35.1	7.3
2017	15.1	11.6	3.5	15.1	1.1	0.5	2.6	0.3	2.3	37.0	7.1

(NA) Not available. 1/ Cheese content of processed cheese has been included in all cheese. Source: USDA, Economic Research Service

MEAT: PER CAPITA CONSUMPTION, (BONELESS, TRIMMED EQUIVALENT), UNITED STATES, SELECTED YEARS 1/

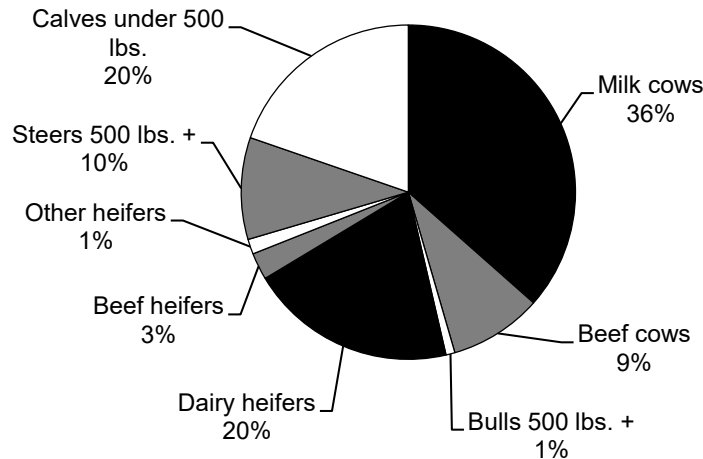
Year	Beef	Veal	Pork	Lamb	Total red	Chicken	Turkey	Fish & shellfish	Total meat, poultry, & fish
	Pounds								
1970	79.8	2.0	48.5	2.1	132.5	27.4	6.4	11.7	178.1
1975	83.2	2.8	38.4	1.3	125.8	26.4	6.5	12.1	170.8
1980	72.1	1.3	52.1	1.0	126.4	32.7	8.1	12.4	179.6
1985	74.6	1.5	47.7	1.1	124.9	36.4	9.1	15.0	185.4
1990	63.9	0.9	46.4	1.0	112.2	42.5	13.8	14.9	183.5
1995	63.5	0.8	48.4	0.9	113.6	48.2	13.9	14.8	190.4
2000	64.5	0.5	47.8	0.8	113.7	54.2	13.7	15.2	196.8
2005	62.5	0.4	46.5	0.8	110.2	60.5	13.2	16.2	200.0
2010	56.7	0.3	44.4	0.7	102.0	58.0	12.9	15.8	188.8
2015	51.4	0.2	46.3	0.7	98.6	62.6	12.6	15.5	189.3
2017	54.3	0.2	46.7	0.8	102.0	64.1	13.0	16.1	195.1

1/ Data may not add due to rounding. Source: USDA, Economic Research Service

CATTLE AND CALVES: NUMBER ON FARMS, WISCONSIN, JANUARY 1, 2016-2020

Year	All cattle and calves	Milk cows	Beef cows	Bulls 500 lbs. +	Replacement heifers 500 lbs. +		Other heifers 500 lbs. +	Steers 500 lbs. +	Calves under 500 lbs.
					Dairy	Beef			
1,000 head									
2016	3,500	1,280	270	30	735	80	45	380	680
2017	3,550	1,280	290	30	710	80	50	400	710
2018	3,500	1,275	285	30	700	80	50	380	700
2019	3,450	1,270	290	30	680	80	60	360	680
2020	3,450	1,260	310	30	690	90	50	340	680

**CATTLE INVENTORY
Wisconsin, January 1, 2020**



CATTLE AND CALVES: INVENTORY, SUPPLY AND DISPOSITION, WISCONSIN, 2015-2019

Year	All cattle and calves January 1	Calf crop	Inshipment	Marketings		Farm slaughter	Deaths	
				Cattle	Calves	Cattle and calves	Cattle	Calves
1,000 head								
2015	3,500	1,380	110	890	401	6	63	130
2016	3,500	1,420	143	905	403	5	65	135
2017	3,550	1,430	163	1,068	378	5	62	130
2018	3,500	1,420	163	1,061	375	4	63	130
2019	3,450	1,440	163	1,027	375	5	61	135

CATTLE AND CALVES: PRODUCTION, AVERAGE PRICE, AND INCOME, WISCONSIN, 2015-2019

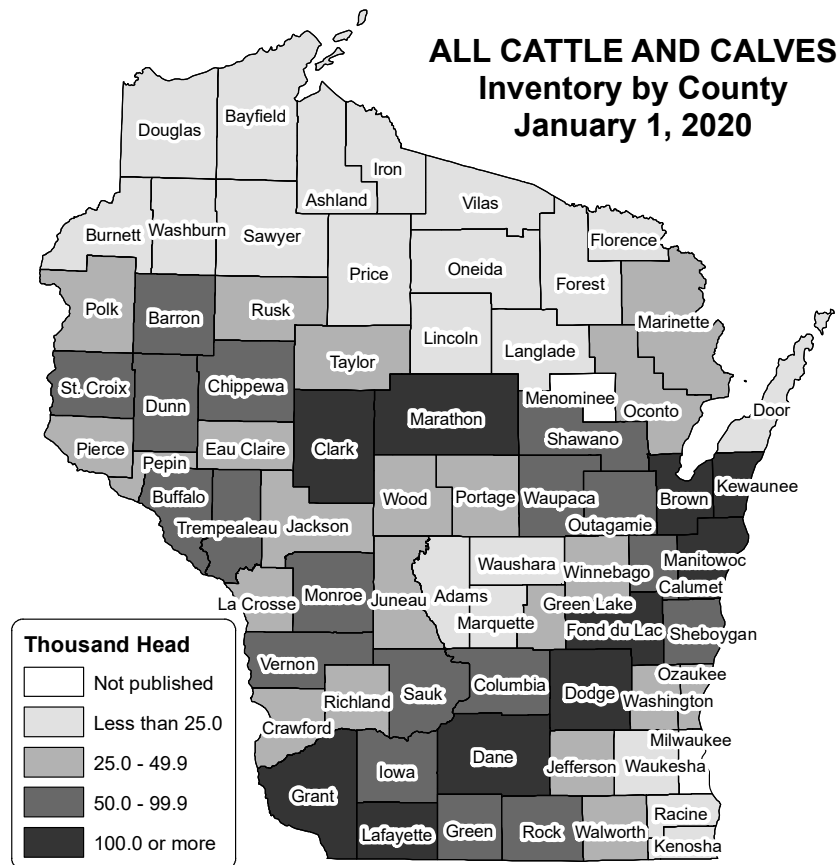
Year	Production	Marketings	Cash receipts	Value of home consumption	Gross income
				1,000 pounds	
1,000 dollars					
2015	1,383,837	1,394,950	2,128,331	49,110	2,177,441
2016	1,405,233	1,422,783	1,639,375	35,644	1,675,019
2017	1,527,467	1,646,915	1,846,035	28,501	1,874,536
2018	1,503,249	1,633,300	1,754,534	27,996	1,782,530
2019	1,499,119	1,568,175	1,662,302	31,022	1,693,324

ALL CATTLE AND CALVES: BY COUNTY, WISCONSIN, JANUARY 1, 2019-2020 1/

County	2019	2020	County	2019	2020	County	2019	2020
	Head			Head			Head	
Adams	14,300	14,300	Kewaunee	105,000	105,000	Taylor	38,500	38,500
Ashland	9,200	9,200	La Crosse	26,000	26,000	Trempealeau	67,000	67,000
Barron	52,000	52,000	Lafayette	105,000	105,000	Vernon	71,000	71,000
Bayfield	7,700	7,700	Langlade	18,800	18,800	Vilas	100	100
Brown	125,000	125,000	Lincoln	10,400	10,400	Walworth	38,000	38,000
Buffalo	63,000	63,000	Manitowoc	110,000	110,000	Washburn	9,000	9,000
Burnett	13,300	13,300	Marathon	145,000	145,000	Washington	44,500	44,500
Calumet	69,000	69,000	Marinette	42,500	42,500	Waukesha	7,700	7,700
Chippewa	60,000	60,000	Marquette	19,300	19,300	Waupaca	55,000	55,000
Clark	160,000	160,000	Menominee	(D)	(D)	Waushara	15,800	15,800
Columbia	55,000	55,000	Milwaukee	(D)	(D)	Winnebago	29,500	29,500
Crawford	31,000	31,000	Monroe	67,000	67,000	Wood	43,000	43,000
Dane	155,000	155,000	Oconto	46,500	46,500			
Dodge	110,000	110,000	Oneida	1,000	1,000	Other Counties	100	100
Door	21,000	21,000	Outagamie	88,000	88,000			
Douglas	7,000	7,000	Ozaukee	26,000	26,000			
Dunn	51,000	51,000	Pepin	27,000	27,000			
Eau Claire	25,000	25,000	Pierce	46,000	46,000			
Florence	1,400	1,400	Polk	43,500	43,500			
Fond Du Lac	115,000	115,000	Portage	40,500	40,500			
Forest	2,800	2,800	Price	12,200	12,200			
Grant	175,000	175,000	Racine	10,000	10,000			
Green	69,000	69,000	Richland	46,000	46,000			
Green Lake	25,500	25,500	Rock	55,000	55,000			
Iowa	85,000	85,000	Rusk	25,000	25,000			
Iron	2,300	2,300	Sauk	66,000	66,000			
Jackson	42,000	42,000	Sawyer	6,900	6,900			
Jefferson	48,000	48,000	Shawano	84,000	84,000			
Juneau	27,000	27,000	Sheboygan	77,000	77,000			
Kenosha	9,700	9,700	St Croix	50,000	50,000			

Wisconsin 3,450,000 3,450,000

(D) Withheld to avoid disclosure of individual operations. Included in 'other counties.' 1/ Livestock county estimates are being set using raking. This process utilizes county level livestock information from the census of agriculture, administrative data, and current year state-level Agricultural statistics Board (ASB) inventory and production estimates. Full details on this new methodology are available at: www.nass.usda.gov/Data_and_Statistics/County_Data_Files/Livestock_County_Estimates/



HOGS: NUMBER ON FARMS, WISCONSIN, DECEMBER 1, 2015-2019

Year	All hogs and pigs	Breeding hogs	Market hogs				
			Total	< 50 lbs.	50-119 lbs.	120-179 lbs.	180 lbs. +
			1,000 head				
2015	320	43	277	89	63	65	60
2016	335	45	290	102	67	61	60
2017	305	45	260	89	53	59	59
2018	320	44	276	83	59	69	65
2019	365	60	305	110	68	72	55

HOGS: INVENTORY, SUPPLY AND DISPOSITION, WISCONSIN, 2015-2019

Year	Beginning inventory	Pig crop	Inshipment	Marketings	Farm slaughter	Deaths
			1,000 head			
2015	310	673	150	785	1	27
2016	320	661	195	814	1	26
2017	335	772	193	961	1	34
2018	305	844	165	961	1	33
2019	320	1,085	155	1,159	1	36

HOGS: PRODUCTION AND INCOME, WISCONSIN, 2015-2019

Year	Production	Marketings	Value of production	Cash receipts	Value of home consumption	Gross income	All hogs December 1 current year
	1,000 pounds		1,000 dollars				1,000 head
2015	146,130	149,745	96,792	105,978	599	106,577	320
2016	142,431	150,758	84,912	97,927	667	98,594	335
2017	164,587	175,911	107,515	122,722	572	123,294	305
2018	170,366	174,966	109,827	120,474	683	121,157	320
2019	218,375	220,659	140,524	150,036	705	150,741	365

SHEEP AND LAMBS: NUMBER ON FARMS, WISCONSIN, JANUARY 1, 2016-2020

Year	All sheep and lambs	Market	Breeding sheep and lambs		
			One year and over		Replacement lambs
			Ewes	Rams	
			1,000 head		
2016	76	13	49	2	12
2017	76	13	48	3	12
2018	75	12	48	3	12
2019	75	12	48	3	12
2020	81	15	50	3	13

MILK GOATS: NUMBER ON FARMS, BY CLASS, WISCONSIN, JANUARY 1, 2016-2020

Year	Milk goats and kids
	Head
2016	48,000
2017	56,000
2018	67,000
2019	72,000
2020	82,000

WOOL: PRODUCTION AND VALUE, WISCONSIN, 2015-2019

Year	Number of sheep shorn	Weight per fleece	Total production	Price per pound	Value of production
	1,000 hd.	Pounds	1,000 lbs.	Cents	\$1,000
2015	51	7.2	365	0.75	274
2016	51	6.7	340	0.70	238
2017	50	6.6	330	0.65	215
2018	50	6.6	330	0.60	198
2019	49	6.9	340	0.55	187

COMMERCIAL LIVESTOCK SLAUGHTER: BY MONTHS, WISCONSIN, 2015-2019

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual 1/
BEEF CATTLE 2/													
Number (thousand head)													
2015	103.8	88.8	96.4	96.8	88.5	91.9	94.9	88.2	99.2	99.6	98.6	102.4	1,149.1
2016	100.1	95.7	103.2	92.7	92.4	100.4	94.8	105.3	102.1	108.3	110.8	115.1	1,220.8
2017	112.9	106.1	117.3	107.2	110.0	116.6	101.3	117.3	104.5	113.6	114.7	106.8	1,328.5
2018	115.7	105.7	115.0	109.2	109.5	111.4	106.5	119.3	103.2	124.8	112.7	108.8	1,341.9
2019	115.4	100.0	119.4	118.8	115.2	113.8	114.8	113.7	109.5	124.5	118.0	116.4	1,379.4
Average liveweight (pounds)													
2015	1,388	1,396	1,390	1,387	1,396	1,390	1,382	1,372	1,380	1,385	1,401	1,397	1,389
2016	1,410	1,405	1,404	1,387	1,390	1,388	1,376	1,368	1,373	1,390	1,392	1,398	1,390
2017	1,406	1,410	1,401	1,395	1,394	1,391	1,382	1,382	1,394	1,389	1,394	1,402	1,395
2018	1,405	1,411	1,405	1,397	1,389	1,386	1,377	1,368	1,374	1,377	1,384	1,389	1,388
2019	1,398	1,392	1,386	1,393	1,386	1,384	1,375	1,369	1,374	1,372	1,375	1,377	1,382
Total liveweight (million pounds)													
2015	143.3	123.2	133.1	133.4	122.8	127.0	130.4	120.3	136.0	137.1	137.3	142.2	1,586.0
2016	140.3	133.6	144.1	127.7	127.7	138.6	129.7	143.1	139.3	149.6	153.3	160.0	1,686.9
2017	157.9	148.7	163.5	148.6	152.5	161.4	139.2	161.2	144.8	156.8	159.1	148.9	1,842.5
2018	161.7	148.3	160.6	151.6	151.1	153.5	145.8	162.3	141.0	170.8	155.0	150.2	1,851.9
2019	160.4	138.3	164.6	164.5	158.7	156.6	156.9	154.9	149.5	169.7	161.2	159.3	1,894.8
CALVES 3/													
Number (thousand head)													
2015	5.6	4.6	5.3	5.3	4.8	5.2	5.6	5.4	5.7	5.2	5.6	5.4	63.9
2016	5.4	4.6	5.8	4.9	4.8	5.6	4.7	4.9	5.3	5.3	5.1	5.2	61.6
2017	5.0	4.3	5.1	4.6	5.3	5.3	4.2	4.9	4.4	4.4	5.3	5.0	57.9
2018	5.1	4.9	4.8	4.7	4.9	4.3	4.7	4.5	4.5	5.0	5.0	4.7	57.0
2019	4.5	4.8	4.3	4.4	4.4	3.8	4.3	4.3	3.7	4.6	3.8	4.0	50.9
Average liveweight (pounds)													
2015	472	463	459	463	483	470	472	474	471	487	489	487	474
2016	474	480	484	487	481	482	469	474	463	459	463	460	473
2017	451	457	452	452	467	469	472	455	472	490	493	488	468
2018	484	483	473	483	491	484	478	482	492	482	482	470	482
2019	465	459	458	460	470	455	462	456	474	473	485	467	465
Total liveweight (million pounds)													
2015	2.7	2.1	2.4	2.5	2.3	2.4	2.6	2.5	2.7	2.5	2.7	2.6	30.2
2016	2.5	2.2	2.8	2.4	2.3	2.7	2.2	2.3	2.5	2.4	2.4	2.4	29.1
2017	2.2	2.0	2.3	2.1	2.5	2.5	2.0	2.2	2.1	2.2	2.6	2.4	27.0
2018	2.5	2.3	2.2	2.3	2.4	2.1	2.2	2.2	2.2	2.4	2.4	2.2	27.4
2019	2.1	2.2	1.9	2.0	2.1	1.7	2.0	1.9	1.8	2.2	1.8	1.8	23.6
HOGS													
Number (thousand head)													
2015	51.2	49.4	56.5	55.4	45.3	44.7	43.8	42.8	44.6	41.0	36.6	37.4	548.7
2016	40.7	39.7	41.3	38.1	41.6	46.1	48.3	59.1	57.9	57.8	57.9	57.6	586.1
2017	62.0	56.3	69.9	58.3	64.8	62.9	59.9	68.1	60.2	64.2	59.7	56.9	743.2
2018	67.8	59.9	63.6	63.0	61.4	61.2	59.9	61.7	54.3	66.9	60.4	52.2	732.3
2019	63.2	57.0	63.3	66.3	59.8	57.7	62.8	56.9	58.7	66.6	59.2	60.0	731.5
Average liveweight (pounds)													
2015	455	452	453	458	459	459	440	429	431	425	428	435	445
2016	441	436	437	447	449	456	457	439	435	437	441	438	442
2017	441	445	443	443	448	457	438	429	426	435	441	436	440
2018	437	436	435	443	447	451	445	428	428	432	434	428	437
2019	431	432	434	442	439	440	437	429	432	430	431	429	434
Total liveweight (million pounds)													
2015	23.3	22.2	25.5	25.3	20.8	20.5	19.2	18.3	19.2	17.4	15.7	16.2	243.6
2016	17.9	17.2	18.0	17.0	18.6	21.0	22.0	25.9	25.1	25.2	25.5	25.2	258.6
2017	27.3	25.0	30.9	25.8	29.0	28.7	26.2	29.2	25.6	27.9	26.3	24.8	326.3
2018	29.6	26.1	27.6	27.8	27.3	27.5	26.6	26.3	23.2	28.8	26.2	22.3	319.3
2019	27.1	24.5	27.3	29.2	26.2	25.3	27.3	24.3	25.3	28.6	25.4	25.7	316.4

1/Months will not necessarily add to total due to rounding. 2/Slaughter cows, steers and heifers combined. 3/Includes slaughter "bobs" and special fed veal calves weighing less than 500 pounds.

TROUT: SALES, LOSSES AND DISTRIBUTION, WISCONSIN, 2015-2019

Item	Unit	2015	2016	2017	2018	2019
Sales						
Trout 12" or longer						
Number sold	1,000 fish	440	(D)	390	370	340
Weight sold	1,000 pounds	414	(D)	378	357	314
Value of sales	1,000 dollars	1,399	(D)	1,569	1,339	1,410
Average price per pound	Dollars	3.38	(D)	4.15	3.75	4.49
Total sales (excluding eggs)	1,000 dollars	1,462	1,558	1,694	1,493	1,525
Losses						
Total number	1,000 fish	328	140	191	235	266
Total weight	1,000 pounds	66	40	90	54	70
Distribution for conservation & restoration						
Trout 12" or longer	1,000 fish	10	15	(D)	10	(D)
Trout 6" - 12"	1,000 fish	2,510	2,770	2,820	1,570	(D)
Trout 1" - 6"	1,000 fish	(D)	(D)	(D)	2,080	(D)
Total value	1,000 dollars	2,837	2,699	2,196	1,514	(D)

(D) Not published to avoid disclosure of individual operations.

HONEY: PRODUCTION AND VALUE, WISCONSIN, 2015-2019

Year	Colonies of bees	Yield per colony	Honey		
			Production	Price per pound	Value of production
	1,000 colonies	Pounds	1,000 pounds	Cents	1,000 dollars
2015	52	67	3,484	243	8,466
2016	54	62	3,348	267	8,939
2017	53	56	2,968	282	8,370
2018	51	45	2,295	295	6,770
2019	46	47	2,162	299	6,464

MINK: FEMALES BRED, PELTS PRODUCED, AND VALUE, WISCONSIN, 2015-2019

Year	Females bred	Pelts produced	Average price 1/	Value of pelts
			Dollars	Million dollars
	Number			
2015	268,690	1,316,610	32.00	42.1
2016	254,490	1,147,310	34.70	39.8
2017	246,620	1,133,180	36.10	40.9
2018	264,260	1,030,600	26.60	27.4
2019	244,000	1,016,220	21.90	22.3

1/Average market price, U.S.

HONEY BEE COLONIES: WISCONSIN, 2019-2020 1/

Period	First of the quarter number of colonies 2/	Maximum colonies 3/	Lost colonies	Percent lost 4/	Added colonies	Renovated colonies 5/	Percent renovated 6/
	Number			Percent	Number		Percent
Jan-Mar 2019	16,500	17,000	3,700	22	580	100	1
Apr-Jun 2019 7/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Jul-Sep 2019	63,000	63,000	6,500	10	2,400	10,000	16
Oct-Dec 2019	46,000	46,000	8,500	18	1,800	3,000	7
Jan-Mar 2020	16,000	26,000	1,500	6	2,000	370	1
Apr-Jun 2020	27,000	53,000	1,700	3	11,500	4,600	9

(NA) Not available. 1/ Operations with 5 or more colonies. 2/ Number of colonies in the state as of the first day of the quarter. 3/ Number of colonies in the state on the first day of the quarter plus all colonies moved into state during the quarter. 4/ Percent lost is the number of lost colonies divided by the maximum colonies. 5/ Defined as any surviving colony that was requeened or received new honey bees through nuc or package. 6/ Percent renovated is the number of renovated colonies divided by the maximum colonies. 7/ Quarterly data collection suspended for the April-June 2019 quarter.

HONEY BEE COLONY HEALTH: WISCONSIN, 2019-2020 1/

Period	Varroa mites	Other pests and parasites 2/	Disease 3/	Pesticide	Other 4/	Unknown
	Percent					
Jan-Mar 2019	15.9	3.2	0.7	1.1	13.8	5
Apr-Jun 2019 5/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Jul-Sep 2019	46.4	20.5	13.9	18.1	6.5	3.9
Oct-Dec 2019	40	22.1	14.8	14.1	22	7.3
Jan-Mar 2020	9	1.9	0.4	(Z)	2.7	3.1
Apr-Jun 2020	46.1	27.3	25	25.1	25.8	26.1

(NA) Not available. 1/ Operations with 5 or more colonies, percent of colonies affected by stressor. A colony may be affected by multiple stressors during the quarter. 2/ Tracheal mites, nosema, hive beetle, wax moths, etc. 3/ Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc. 4/ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc. 5/ Quarterly data collection suspended for the April-June 2019 quarter.

**CHICKENS: NUMBER ON FARMS,
WISCONSIN, DECEMBER 1, 2015-2019**

Year	Total chickens 1/	Value per head	Total value	Total layers
	Thousands	Dollars	1,000 dollars	Thousands
2015	6,399	2.60	16,637	4,927
2016	6,636	2.40	15,926	5,648
2017	9,084	2.40	21,802	7,383
2018	8,818	2.50	22,045	7,284
2019	9,699	2.50	24,248	7,870

1/Excludes commercial broilers.

**EGGS: PRODUCTION AND VALUE,
WISCONSIN, 2015-2019 1/**

Year	Avg. layers during year	Total eggs produced	Eggs per layer	Price per dozen	Value of production
	1,000 hd.	Million	Number	Cents	1,000 dollars
2015	4,951	1,416	286	160.1	188,910
2016	5,650	1,629	288	58.6	79,493
2017	6,428	1,860	289	70.1	108,619
2018	7,271	2,078	286	101.7	176,103
2019	7,327	2,163	295	62.8	113,111

1/Year is for the period December 1 - November 30.

EGG PRODUCTION: WISCONSIN, 2015-2019

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Million eggs											
2015	133.2	117.8	129.3	119.5	108.2	97.7	106.9	112.1	110.6	121.9	121.0	124.5
2016	132.2	135.0	143.9	133.1	136.1	133.3	131.7	134.1	140.1	143.7	141.0	149.3
2017	145.5	130.5	149.3	153.8	161.9	152.2	164.2	166.4	155.5	162.4	169.1	185.6
2018	179.5	155.8	174.1	172.4	180.9	169.2	175.6	180.0	172.1	171.0	161.6	173.3
2019	176.7	154.2	169.9	174.9	190.7	186.6	188.1	186.7	177.2	192.1	192.7	199.8

LAYERS: AVERAGE NUMBER, WISCONSIN, 2015-2019

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	1,000 head											
2015	5,521	5,361	5,351	5,148	4,533	4,144	4,301	4,593	4,747	5,037	5,088	5,175
2016	5,499	5,639	5,597	5,649	5,830	5,757	5,479	5,651	6,006	5,850	5,671	5,758
2017	5,889	5,894	6,018	6,313	6,392	6,366	6,409	6,591	6,934	7,212	7,356	7,332
2018	7,143	7,080	7,202	7,372	7,528	7,437	7,263	7,208	7,195	7,222	7,272	7,382
2019	7,405	7,319	7,298	7,295	7,311	7,314	7,204	7,100	7,104	7,404	7,785	7,960

**LAYERS: PRODUCTION AND VALUE,
WISCONSIN, 2015-2019 1/**

Year	Number of chickens		Price per pound	Value of sales
	Lost	Sold		
	1,000 head		Cents	1,000 dollars
2015	1,666	4,232	3.4	528
2016	1,103	2,787	3.3	353
2017	1,093	2,541	1.7	166
2018	2,951	2,157	2.8	262
2019	3,601	2,151	2.3	219

1/Includes an allowance for roosters. Year is for the period December 1 - November 30.

**BROILERS: PRODUCTION AND GROSS INCOME,
WISCONSIN, 2015-2019 1/**

Year	Production		Price per pound	Value of production
	Number	Quantity		
	1,000 head	1,000 pounds	Cents	1,000 dollars
2015	53,900	226,400	54	121,803
2016	54,100	227,200	48	108,602
2017	53,800	226,000	54	122,944
2018	55,800	228,800	56	127,899
2019	58,500	228,200	49	110,905

1/Year is for the period December 1 - November 30.



National Association of State Departments of Agriculture (NASDA) enumerators collect data for the Wisconsin Field Office of USDA NASS. Some NASDA workers who gathered information for this publication are shown on these two pages.



Back Row:
Russell Miller, Kevin Larson, Lynda Cain, Luanne Rehse

Front Row:
Tony Zimmer, Shirley Conley, Louise Lukes, Bob Samplawski

Not pictured:
Carl Peterson



Back Row:
Kermit Traska, Dennis Hintz, Jeff Stauffacher

Front Row:
Dennis Boland, Janis Yoose, Kate Jackson



Back Row:
John Jarvis, Daniel Chelmo, Dexter Niskanen, Terry Johannes, Nancy Lato

Front Row:
Kate Novitzke, Bonnie Swan, John Timura, Mary Bruffat, Linda Overbey

Not pictured:
Joe Grabko, Dave Gunderson, Steve Prissel, Roger Williams



Back row:
Larry Bischoff, Jon Kerr, Glen Sjoerdsma, Archie Hafer

Front row:
Mary Bogenschneider, Donna Finch, Phyllis Westenberg

Not pictured:
Vicki Coughlin, Dorothy Davidson, Diane Qualmann, Kim Seiler



Back Row:
Fred Schmoock, Derrick Sakowski, Joe Pribek, Ken Matyas

Front Row:
Marie Graupner, Ernie Anderson, Michelle Jensen

Not pictured:
Laurie Groskopf



Beth Zondag-Traska, Linda Netzloff



Marshall Brinkman, Debbie Taylor

2018 Census of Irrigation

Results now available at: www.nass.usda.gov/AgCensus

IRRIGATED FARMS BY SIZE OF FARM, WISCONSIN, 2018

Acreage	Farms	Land in Farms (acres)	Acres Irrigated
Total	2,127	1,446,654	518,312
1 to 49 acres	910	16,587	2,701
50 to 99 acres	81	5,643	712
100 to 219 acres	103	15,794	4,735
220 to 499 acres	332	114,578	41,744
500 to 999 acres	303	234,242	68,851
1,000 to 1,999 acres	207	266,846	107,772
2,000 to 4,999 acres	130	384,621	165,831
5,000 acres or more	61	408,343	125,966

IRRIGATION BY ESTIMATED QUANTITY OF WATER APPLIED, WISCONSIN 2018

Acres in the open	Farms	Acres Irrigated	Acres-foot of water applied
Total	1,790	517,394	293,431
Less than 100 acre-feet	1,379	93,325	26,708
100 to 199 acre-feet	189	72,023	24,318
200 to 499 acre-feet	119	78,409	32,121
500 to 999 acre-feet	31	33,661	17,459
1,000 to 1,999 acre-feet	36	74,092	54,072
2,000 acre-feet or more	36	165,884	138,753
Area under protection	Farms	Acres Irrigated	Gallons applied (1,000)
Total	783	315	155,444
Less than 250,000 gal.	690	118	31,421
250,000 to 499,999 gal.	50	35	19,183
500,000 to 999,999 gal.	5	23	3,907
1,000,000 to 1,999,999 gal.	35	62	43,215
2,000,000 to 4,999,999 gal.	-	-	-
5,000,000 gal. or more	3	77	57,719

- Represents zero.

IRRIGATION WELLS USED ON FARMS, WISCONSIN, 2018

Item	Number
Number of farms	1,733
Number of wells	5,166
Farms by number of wells used	
1 well	1,123
2 wells	275
3 wells	106
4 wells	22
5 wells	43
6 wells	31
7 to 9 wells	49
10 to 14 wells	22
15 to 19 wells	23
20 wells or more	39

ESTIMATED QUANTITY OF WATER APPLIED BY SOURCE, WISCONSIN 2018

Acres in the open	Farms	Acres Irrigated	Acres-foot of water applied
Total	1,790	517,394	293,431
Ground water from wells	1,432	475,100	269,659
On-farm surface water	433	40,832	21,334
Off-farm water from all suppliers	75	8,431	2,438
Area under protection	Farms	Square feet irrigated	Gallons applied (1,000)
Total	783	13,742,493	155,444
Ground water from wells	710	13,093,293	153,398
On-farm surface water	23	666,600	1,610
Off-farm water from all suppliers	54	421,200	436

WATER DISTRIBUTION FOR SELECTED CROPS HARVESTED IN THE OPEN, WISCONSIN, 2018

Crop	Farms	Irrigated acres harvested	Average yield per irrigated acre (bushels)	Average acre-feet applied per acre
Corn for grain or seed	484	142,895	213	0.5
Corn for silage or greenchop	146	24,703	26	0.4
Wheat for grain or seed	21	1,189	70	0.3
Soybeans for beans	445	73,832	59	0.4
Beans, dry edible	11	8,548	23	0.5
Other small grains (barley, oats, rye, etc.)	33	1,777	(NA)	0.3
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	224	23,936	6.3	0.4
All other hay (dry hay, greenchop, and silage)	4	1,440	4.5	0.3
Crop	Farms	Irrigated acres harvested	Average yield per irrigated acre (cwt)	Average acre-feet applied per acre
Vegetables	703	200,869	(NA)	0.8
Sweet corn	228	49,107	177	0.6
Tomatoes	310	273	336	0.6
Lettuce	196	65	215	0.6
Potatoes (excl. sweet potatoes)	295	84,234	443	0.9
All berries	375	28,825	(NA)	1.0
Land in orchards, vineyards, and nut trees	67	291	(NA)	0.4
Nursery and other horticultural crops	322	11,485	(NA)	0.5
All other crops	10	(D)	(NA)	0.3

(D) Withheld to avoid disclosing data for individual farms. (NA) Not available.

WISCONSIN CROPS: Usual Planting and Harvesting Dates

Crops	Usual planting dates		Usual harvesting dates			Principal producing areas	
	Begins	Ends	Begins	Most active	Ends	Districts	Counties
FIELD CROPS							
Corn for grain	April 26	June 4	Oct. 2	Oct. 14 - Nov. 17	Nov. 28	SC	Dane, Rock, Grant
Corn for silage	April 26	June 4	Sept. 8	Sept. 13 - Oct. 13	Oct. 19	EC, SC	Dane, Fond du Lac, Marathon
Soybeans	May 7	June 14	Sept. 29	Oct. 4 - Oct. 29	Nov. 8	SC	Rock, Dane, Dodge
Oats, spring	April 11	May 18	July 22	July 28 - Aug. 24	Aug. 30	WC, EC, SW	Langlade, Grant, Marathon
Barley, spring	April 5	April 30	Aug. 1	Aug. 5 - Aug. 15	Aug. 20	NC, NW	Marathon, Manitowoc, Clark,
Winter wheat	Sept. 30	Oct. 15	July 17	July 21 - Aug. 11	Aug. 19	EC, SC, SE	Manitowoc, Fond du Lac, Dane
Potatoes	Mar. 25	May 5	July 20	Aug. 15 - Oct. 1	Oct. 10	C, NE	Portage, Waushara, Adams
Alfalfa hay			May 20		Oct. 10	SW, WC	Grant, Marathon, Iowa
All other hay			May 27		Sept. 15	NC, NW	Marathon, Clark, Rusk
VEGETABLES							
Carrots for processing	April 25	June 15	Aug. 15	Sept. 1 - Oct. 31	Nov. 15	C, EC	Waushara, Manitowoc, Portage
Snap beans for processing	May 1	July 10	July 10	July 15 - Sept. 15	Sept. 30	C	Portage, Adams, Waushara
Sweet corn for processing	April 1	July 1	Aug. 1	Aug. 15 - Sept. 25	Oct. 15	C, EC	Portage, Waushara, Fond du Lac
Green peas for processing	April 15	June 10	June 20	July 1 - July 20	July 31	EC, C	Fond du Lac, Portage, Green Lake
Cucumbers for pickles	May 1	June 20	July 15	July 25 - Sept. 15	Oct. 15	C	Waupaca, Waushara, Portage

CONVERSION FACTORS

- One quart of milk weighs 2.15 pounds
- One gallon of milk weighs 8.6 pounds
- 46.5 quarts of milk weighs 100 pounds.
- Specific gravity of milk at 60 degrees F is 1.032.

100 pounds of 4% milk will yield approximately:
 10 pounds cheese and 90 pounds whey or
 5 pounds butter and 90 pounds skim milk or
 13 pounds dried whole and 1-1/4 pounds 40% cream

100 pounds skim milk will yield approximately:
 16 pounds cottage cheese and 84 pounds whey or
 3 pounds casein and 94 pounds whey or
 9 pounds nonfat dry milk

100 pounds whey will yield approximately:
 5 pounds lactose and
 1 pound protein and
 1/3 pound milkfat

	Requires:
To make one pound of:	
Butter	21.2 pounds whole milk
Whole milk cheese	10.0 pounds whole milk
Evaporated milk	2.1 pounds whole milk
Condensed milk	2.3 pounds whole milk
Whole powdered milk	7.4 pounds whole milk
Powdered cream	13.5 pounds whole milk
Ice cream (1 gal.)	12.0 pounds whole milk <i>(15 pounds when including butter and concentrated milks)</i>
Cottage cheese	6.25 pounds skim milk
Nonfat dry milk	11.0 pounds skim milk



**Department of Agriculture,
Trade and Consumer Protection**

Wisconsin Agricultural Statistics Service
PO Box 8911
Madison WI 53708-8911

