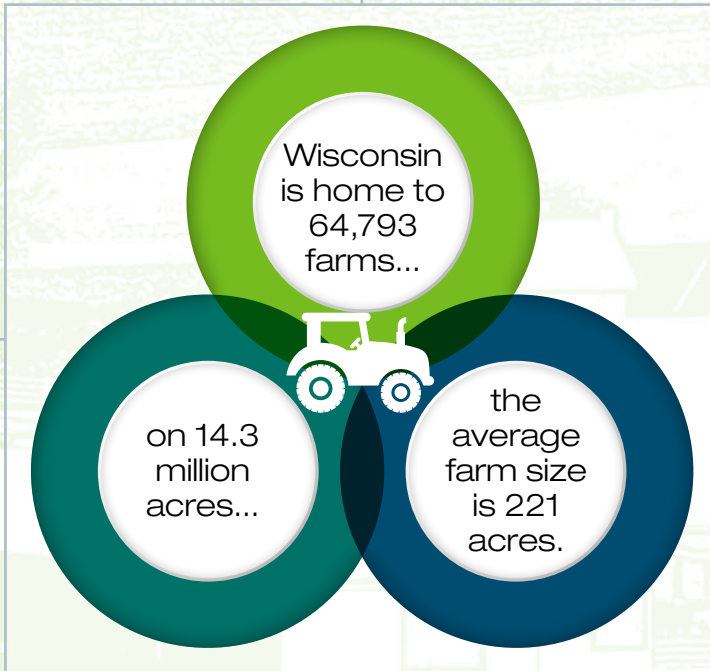
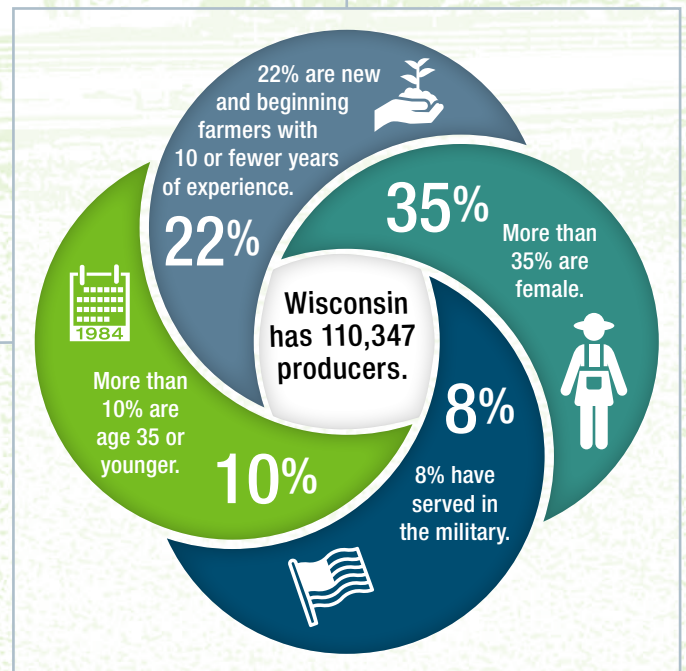


2019 WISCONSIN AGRICULTURAL STATISTICS



FARMS

PRODUCERS



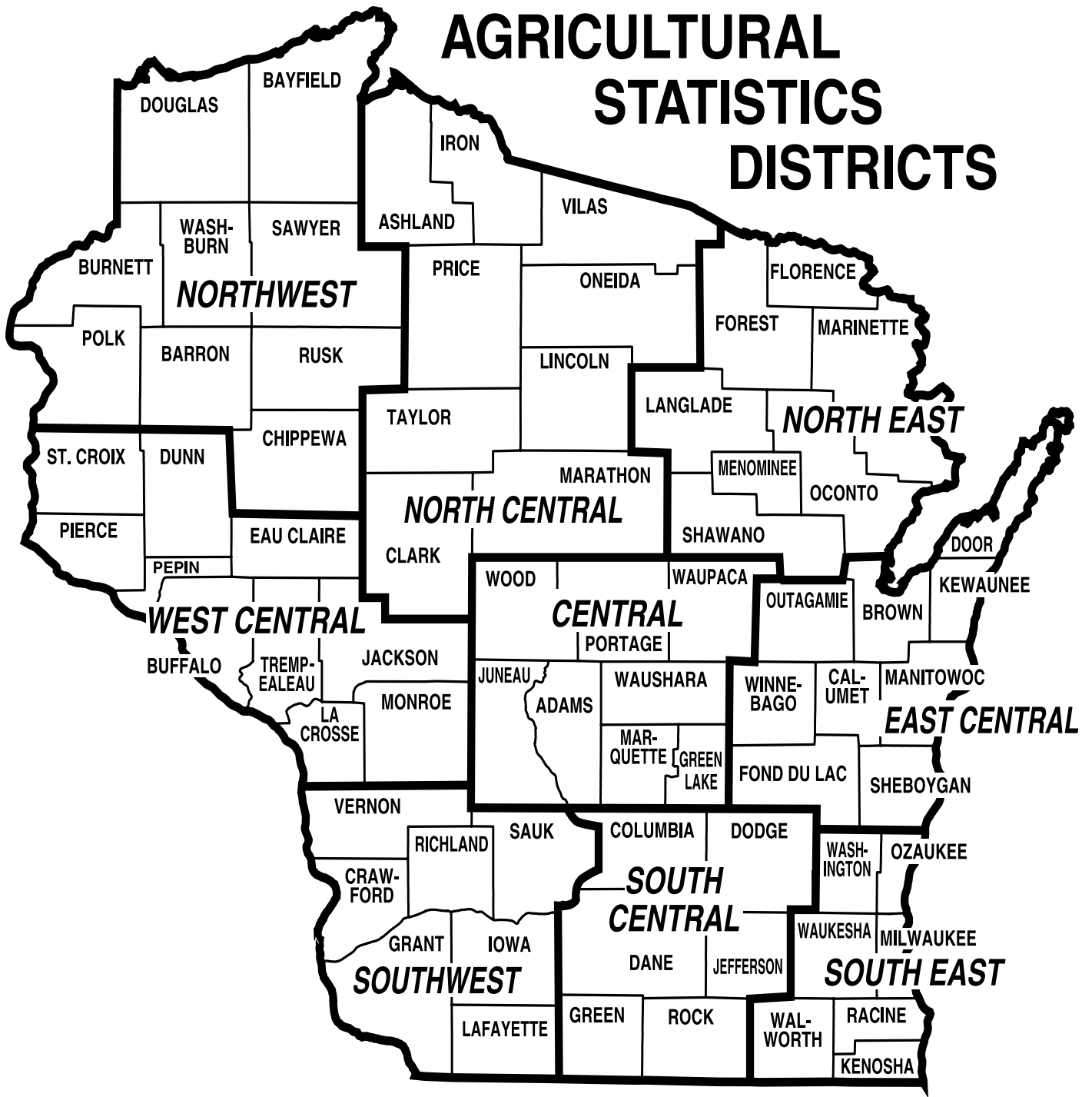
Total value of Agricultural products sold...

\$11.4
billion.

Wisconsin ranks 9th in the U.S. for value of sales.

PRODUCT

AGRICULTURAL STATISTICS DISTRICTS



Price \$10.00



United States Department of Agriculture
National Agricultural Statistics Service



Cooperating with the Wisconsin Department of Agriculture, Trade and Consumer Protection
Wisconsin Field Office 2811 Agriculture Dr. · Madison, WI 53718-6777
(608) 224-4848 · (855) 271-9802 FAX · www.nass.usda.gov/wi E-mail: NASSRFOUMR@nass.usda.gov

A Cooperative Function of:

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

Bradley Pfaff, *Secretary*
Laurie Lawrence, *Art Director*

**UNITED STATES DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service**

Hubert Hamer, *Administrator*
Troy Joshua, *Director for Western Field Operations*

Compiled by:

USDA NASS, WISCONSIN FIELD OFFICE

Greg Bussler, *State Statistician*
Audra Hubbell, Adrien Joyner, Heidi Woodstock

2019 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 2019 edition of *Wisconsin Agricultural Statistics*. This publication, which is available on our website, is a statistical profile of Wisconsin's agriculture and includes information at the county level.

In April 2019, NASS released the results from the 2017 Census of Agriculture. The census provides a snapshot of how Wisconsin's agriculture is doing and how Wisconsin ranks among other states. Data from the census shows that Wisconsin agriculture is diverse in the crops grown and livestock produced, and that agriculture is important to Wisconsin's economy. In fact, Wisconsin ranks 9th nationally for sales of agriculture products with 11.4 billion dollars in sales in 2017. Other interesting census numbers can be found at www.nass.usda.gov/AgCensus.

2019 is proving to be a challenging year for Wisconsin farmers with extreme rain and other weather related issues impacting planting plans and schedules. With these issues and other uncertainties in the market, the need for accurate and timely data is greater than ever. By participating in NASS surveys, farmers will help ensure that the markets can react to the best data available and that American farmers will be able to feed the world.

I'd like to thank all of the farmers, agribusinesses, commodity groups, and countless others who gave their valuable time to provide the information NASS uses to create accurate estimates. Without their cooperation, this publication and all agricultural statistics would not be available.

I also want to thank our enumerators from the National Association of State Department of Agriculture 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 grateful for their dedication to Wisconsin agriculture.

I hope you find this information beneficial for your agricultural interests. NASS releases the reports compiled in this book and many others throughout the year. All are available for free at www.nass.usda.gov. Please contact me anytime with your comments, questions, or requests for assistance.

Sincerely,

Greg A. Bussler
State Statistician

September 2019



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Bradley M. Pfaff, Secretary

Greetings,

Thank you for picking up the 2019 Wisconsin Agricultural Statistics Bulletin. I appreciate your interest in Wisconsin agriculture. Our state has a tremendous story to tell. The interconnections between our farmers, food processors, and agricultural businesses provide the nucleus for our state's diverse and robust agriculture community. I am humbled to be able to help share that story in many ways, including through the data you are about to read.

While our farmers have endured challenges in recent years, from low commodity prices to trade uncertainty to difficult weather, the agriculture community remains resilient. In the midst of those challenges, Wisconsin's farmers and food processors contribute nearly \$105 billion annually to our state's economy. The data and analysis found in publications like this one allow us all to better appreciate the significant role agriculture plays in our lives, whether you live and work on a farm or enjoy fresh produce from a downtown farmers market.

Thanks to the Wisconsin farmers who regularly share accurate information with the U.S. Department of Agriculture National Agricultural Statistics Service (NASS), and to the NASS team that collects and summarizes this data, we all are better informed about the state's agriculture industry. This information is extremely valuable to decision makers, farmers, and business owners alike.

I am proud to be part of an industry that grows an abundance of diverse, high-quality, and nutritious products for the world marketplace. Just as my team at the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) relies on the Wisconsin Agricultural Statistics Bulletin to help tell the story of our farmers, I hope you consider this bulletin a reference you can return to for reliable and complete information on our vibrant agricultural community.

Sincerely

A handwritten signature in black ink that reads "Bradley M. Pfaff". The signature is fluid and cursive.

Bradley M. Pfaff
Secretary



Wisconsin - America's Dairyland

2811 Agriculture Drive • PO Box 8911 • Madison, WI 53708-8911 • Wisconsin.gov

An equal opportunity employer

Index

WISCONSIN AGRICULTURE AND ECONOMICS

Agricultural Cash Rents, County and State.....	4, 6
Agricultural Land Sales, County and State.....	10, 11
Agricultural Land Values.....	4
Cash Receipts.....	9
Farms by Economic Sales Class.....	4
Farm Computer Usage.....	4
Farm Income Indications.....	8
Farms and Land in Farms.....	4
Farm Production Expenditures.....	7
Farm Worker Wage Rates.....	4
Summary.....	2
Wisconsin's Rank in Nation's Agriculture.....	3

CROPS

Apples.....	33
Biotechnology: Corn and Soybeans.....	16
Cabbage.....	34
Carrots.....	34
Cherries.....	33
Corn for Grain, County and State.....	18, 19
Corn for Silage, County and State.....	20, 21
Cranberries.....	33
Cucumbers.....	34
Field Crops: Acreage, Production, and Value.....	16
Floriculture: Production, Price and Value.....	35
Green Peas.....	34
Grain Stocks, Quarterly.....	17
Hay:	
Alfalfa Hay (Dry), County and State.....	28, 29
Forage and Hay, Acreage, Production and Value..	32
Other Hay (Dry), County and State.....	30, 31
Seedings of Alfalfa.....	17
Stocks.....	17
Maple Syrup.....	35
Mint for Oil.....	33
Oats, County and State.....	24, 25
Onions.....	34
Potatoes: Acreage, Production, and Value.....	33
Precipitation, Selected Stations.....	14
Prices Received:	
Corn, Oats, Soybeans.....	17
Hay.....	32
Pumpkins.....	34
Record Highs and Lows.....	13
Snap Beans.....	34
Soybeans, County and State.....	22, 23
Summary.....	12
Sweet Corn.....	34
Temperatures, Selected Stations.....	15
Wheat, Winter, County and State.....	26, 27

LIVESTOCK AND DAIRY

Cattle and Calves:	
Number by County.....	51
Number by Class.....	50
Production, Disposition, and Income.....	50
Dairy Products:	
Cheese Production, by Variety.....	46, 47
Number of Plants.....	48
Per Capita Consumption, U.S.....	49
Price Averages, U.S.....	48
Whey Production.....	46
Hogs and Pigs:	
Number on Farms.....	52
Production, Disposition, and Income.....	52
Honey:	
Production and Value.....	54
Bee Colonies and Colony Health.....	54
Livestock:	
Number and Value by Species.....	37
Meat, Per Capita Consumption, U.S.....	49
Record Highs and Lows.....	37
Milk Cows:	
Herds by Grade Produced, County and State...	40, 41
Herd Numbers by Month.....	41
Herd Size, DHI and All.....	42
Number and Production, County and State.....	38, 39
Number and Production, U.S.....	42
Number and Production by Month.....	42
Prices Received.....	43
Milk Goats:	
Herd Numbers by Month.....	41
Number on Farms.....	52
Milk Prices and Test.....	43
Milk Production:	
Cost and Returns, Wisconsin and U.S.....	45
DHI Data.....	44
Disposition of Milk Sold, Historical.....	43
Hauling Charges.....	43
Production by County.....	38, 39
Production by Month.....	42
Mink.....	54
Poultry:	
Broilers.....	55
Chickens, Number on Farms.....	55
Eggs, Production and Value.....	55
Layers, Number, Production, and Value.....	55
Sheep and Lambs:	
Number on Farms.....	52
Slaughter.....	53
Summary.....	36
Trout.....	54
Wool.....	52

2017 CENSUS OF AGRICULTURE

Farms and Land in Farms, County and State.....	5
Livestock and Poultry.....	37
County Superlatives.....	58

Wisconsin Agriculture and Economics

Wisconsin cash receipts from farm marketings totaled \$10.9 billion in 2018, a 4 percent decrease from 2017. Receipts from livestock, dairy, and poultry comprised 67 percent of the total marketings of all commodities, compared to 69 percent the previous year. Milk sales totaled \$5.00 billion in 2018, down 8 percent from the previous year's total. During the same period, sales of meat animals fell 5 percent and poultry and eggs sales rose 23 percent. Miscellaneous livestock sales fell 12 percent overall. This included a 13 percent decrease in trout sales, a 37 percent decrease in mink pelt sales and a 24 percent decrease in honey sales.

In 2018, cash receipts for all Wisconsin crops totaled \$3.55 billion, up 2 percent from 2017. Sales of feed crops rose 5 percent from 2017. Corn sales were up 4 percent, to \$1.36 billion. Soybean receipts, at \$885 million, were down 1 percent. Total vegetable marketings rose 5 percent. Potato sales were down 2 percent while snap beans were up 24 percent. Sweet corn for processing receipts were down 3 percent while fresh market sweet corn receipts were down 30 percent. Fruit and nut receipts were down 22 percent overall, with tart cherries and cranberries each down 9 percent.

Wisconsin farm production expenditures totaled \$10.1 billion in 2018, down 12 percent from the previous year. Feed expenses dropped 7 percent to \$1.79 billion. This represented the largest single production expense for Wisconsin farmers in 2018, accounting for 18 percent of the total. Farm services were the second largest expense, totaling \$1.40 billion and 14 percent of the total. Expenditures for farm services were down 12 percent from 2017. Expenditures rose modestly for Interest, Taxes, Labor, Fuels and Seeds & Plants while all other categories of expenditures fell from the previous year. Spending on trucks and autos was down 67 percent and spending farm improvements and construction fell 58 percent. Spending on tractors and self-propelled farm machinery and spending on other farm machinery fell 36 and 45 percent respectively. Expenditures per Wisconsin farm averaged \$155,093 in 2018, 11 percent less than the national average of \$175,169 per farm.

In 2018, the total number of agricultural land sales in Wisconsin increased 9 percent and the total acreage sold increased 5 percent. The average value of all agricultural land sold rose 7 percent to \$6,182 per acre. The average value of land continuing in agricultural use rose 7 percent to \$5,818 per acre, while the value of land being diverted to other uses rose 21 percent to \$12,150 per acre. The total number of transactions rose to 1,663 in 2018. The number of transactions where the land continued in agricultural use was up by 126 while the number of transactions where the land was diverted to other uses rose by 10. The total number of acres sold rose 5 percent to 95,051.

There were 64,800 farms in Wisconsin in 2018, the same as 2017. The number of farms with sales \$100,000 to \$249,999 decreased by 100 and the number of farms with sales of \$1,000 to 9,999 increased by 100. The number of farms in all other sales classes stayed the same. Land in farms totaled 14.3 million acres, the same as the previous year. The average size of a Wisconsin farm held steady at 221 acres.

74,879
horses and ponies
lived on Wisconsin
farms in 2017,
the 14th largest
inventory in the
US.



WISCONSIN'S RANK IN THE NATION'S AGRICULTURAL PRODUCTION, 2018

Commodity	Rank among states	Unit	Wisconsin (Thousands)	Percent of U.S.	United States (Thousands)	Leading state
DAIRY						
Milk production	2	Lbs.	30,579,000	14.1	217,575,000	California
Cheese, total (excluding cottage cheese)	1	Lbs.	3,422,895	26.3	13,024,587	Wisconsin
American	1	Lbs.	1,025,776	19.5	5,253,833	Wisconsin
Cheddar	1	Lbs.	714,710	18.8	3,802,508	Wisconsin
Hispanic	2	Lbs.	93,395	29.9	311,916	California
Italian	1	Lbs.	1,729,627	31.1	5,556,850	Wisconsin
Mozzarella	2	Lbs.	1,138,200	26.2	4,351,361	California
Dry whey, human food	1	Lbs.	319,747	32.6	981,664	Wisconsin
LIVESTOCK AND POULTRY						
Cattle and calves, all 1/	9	Head	3,450	3.6	94,760	Texas
Milk cows 1/	2	Head	1,270	13.6	9,353	California
Hogs and pigs, all 2/	20	Head	325	0.4	74,915	Iowa
Sheep 1/ 3/	20	Head	75	1.4	5,230	Texas
Milk goats 1/	1	Head	72	16.7	430	Wisconsin
Chickens 2/	17	Head	8,818	1.7	527,573	Iowa
Broilers	20	Head	55,800	0.6	9,037,100	Georgia
Eggs	16	Eggs	2,077,800	1.9	109,192,100	Iowa
Mink pelts	1	Pelts	972	31.3	3,105	Wisconsin
Honey	16	Lbs.	2,295	1.5	152,348	North Dakota
CROPS						
Corn for grain	9	Bu.	545,240	3.8	14,420,101	Iowa
Corn for silage	1	Tons	13,400	11.0	121,361	Wisconsin
Soybeans	14	Bu.	105,840	2.3	4,543,883	Illinois
Barley	20	Bu.	450	0.3	153,082	Idaho
Oats	4	Bu.	5,490	9.8	56,130	North Dakota
Wheat, winter	19	Bu.	14,200	1.2	1,183,939	Kansas
Forage (dry equivalent), all	4	Tons	6,479	8.1	79,774	Texas
Hay (dry only), all	17	Tons	2,953	2.4	123,600	Texas
Potatoes, all	3	Cwt.	27,135	6.0	450,020	Idaho
Cherries, tart	4	Lbs.	10,900	3.7	298,300	Michigan
Cranberries	1	Barrels	5,545	62.1	8,926	Wisconsin
Maple syrup	4	Gals.	225	5.4	4,199	Vermont
Peppermint for oil	5	Lbs.	171	3.2	5,377	Idaho
Cabbage, all	6	Cwt.	1,337	6.9	19,508	California
Carrots, all	3	Cwt.	1,720	5.2	33,018	California
Cucumbers, all	7	Cwt.	612	4.0	15,450	Florida
Green peas, all	3	Cwt.	979	19.3	5,072	Washington
Pumpkins, all	14	Cwt.	244	1.6	15,058	Illinois
Snap beans, all	1	Cwt.	6,600	37.5	17,595	Wisconsin
Sweet corn, all	3	Cwt.	9,588	13.1	73,280	Washington

1/January 1, 2019 inventory. 2/December 1, 2018. 3/ Tied with Nebraska.

FARMS AND LAND IN FARMS, WISCONSIN, BY SALES CLASS, 2014-2018 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							
2014	29,900	20,600	7,300	4,700	2,800	2,200	67,500
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
LAND IN FARMS							
1,000 acres							
2014	2,000	2,900	2,000	2,000	2,000	3,600	14,500
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
AVERAGE FARM SIZE							
Acres							
2014	67	141	274	426	714	1,636	215
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

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, 2015-2019

Year	Cropland rented for cash			Pasture rented for cash
	Irrigated	Non-irrigated	All	
Dollars per acre				
2015	225.00	130.00	134.00	34.00
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

AGRICULTURAL LAND VALUES: AVERAGE VALUE PER ACRE, WISCONSIN, 2015-2019 1/

Year	Farm real estate 2/	Cropland	Pasture
Dollars per acre			
2015	4,550	4,550	2,180
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

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, 2014-2018 1/ 2/

Year	All hired	Field	Field and livestock
Dollars per hour			
2014	12.18	11.73	11.56
2015	12.86	12.11	12.02
2016	13.30	13.17	12.75
2017	13.79	13.02	13.06
2018	14.16	13.64	13.54

1/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.

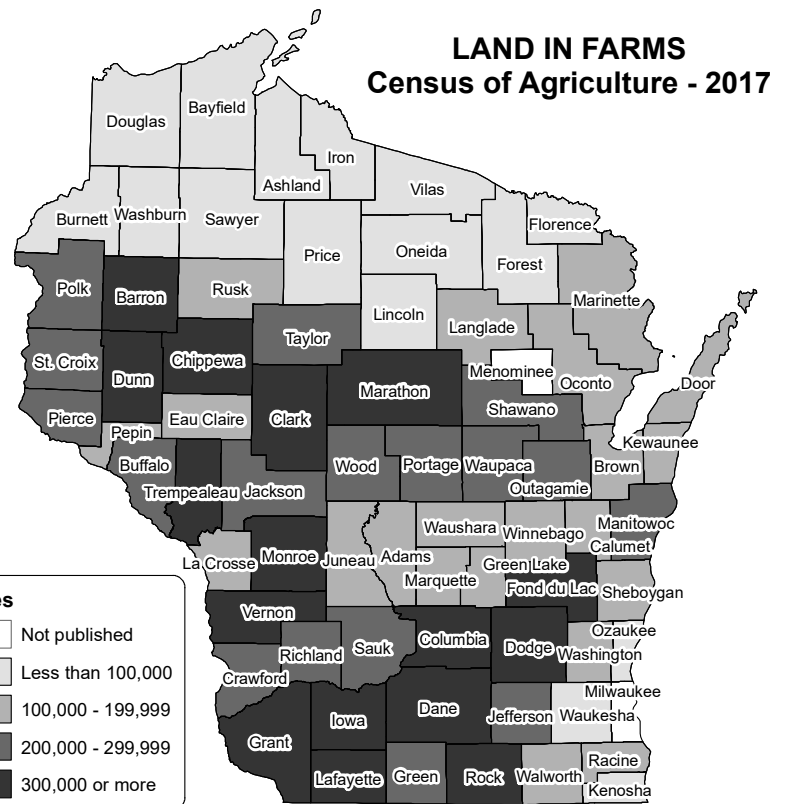
FARMS AND LAND IN FARMS, BY COUNTY, WISCONSIN, CENSUS OF AGRICULTURE, 2012 AND 2017

County	Number of Operations		Acres Operated	
	2012	2017	2012	2017
Adams	313	308	118,393	117,206
Ashland	187	263	45,815	52,428
Barron	1,322	1,200	309,750	305,604
Bayfield	352	427	71,824	81,041
Brown	1,111	975	181,197	192,007
Buffalo	1,061	966	305,302	293,130
Burnett	406	369	83,608	89,237
Calumet	719	684	142,374	153,858
Chippewa	1,757	1,409	384,621	356,176
Clark	2,317	2,095	458,221	451,035
Columbia	1,564	1,357	307,973	304,058
Crawford	1,105	1,034	216,584	210,550
Dane	2,749	2,566	504,420	506,688
Dodge	2,012	1,749	402,041	405,992
Door	803	626	131,955	114,508
Douglas	364	329	70,578	69,759
Dunn	1,404	1,288	372,259	348,301
Eau Claire	1,313	1,069	203,705	172,256
Florence	90	101	13,392	18,609
Fond du Lac	1,399	1,244	315,553	317,371
Forest	127	140	30,258	38,084
Grant	2,436	2,482	587,587	600,324
Green	1,545	1,428	302,295	292,368
Green Lake	608	502	154,595	126,751
Iowa	1,588	1,576	350,813	360,134
Iron	61	49	10,207	9,200
Jackson	864	855	239,936	248,342
Jefferson	1,225	1,098	227,901	221,355
Juneau	827	715	180,039	175,417
Kenosha	359	415	76,632	77,782
Kewaunee	734	655	176,735	170,405
La Crosse	748	667	158,718	144,334
Lafayette	1,252	1,327	368,501	342,518
Langlade	396	432	113,881	116,386
Lincoln	449	426	76,844	78,293
Manitowoc	1,224	1,171	230,735	231,609
Marathon	2,266	2,237	479,045	473,147
Marquette	535	515	132,074	133,068
Marquette	478	458	120,185	113,183
Menominee	5	3	561	(D)
Milwaukee	82	86	4,563	(D)
Monroe	1,926	1,555	337,895	300,659

County	Number of Operations		Acres Operated	
	2012	2017	2012	2017
Oconto	929	834	189,389	189,898
Oneida	150	131	34,926	34,670
Outagamie	1,170	1,130	250,748	236,963
Ozaukee	416	316	64,987	59,299
Pepin	459	448	103,604	106,881
Pierce	1,259	1,229	245,974	233,188
Polk	1,313	1,234	255,917	256,114
Portage	969	982	278,673	280,410
Price	472	410	92,295	89,203
Racine	575	611	109,964	127,496
Richland	1,260	1,103	227,833	220,843
Rock	1,509	1,587	353,793	353,505
Rusk	529	501	133,601	136,062
St. Croix	1,417	1,444	267,685	279,191
Sauk	1,665	1,412	332,649	298,906
Sawyer	172	175	43,554	46,009
Shawano	1,278	1,139	261,141	247,241
Sheboygan	986	958	190,155	195,938
Taylor	967	893	217,012	225,856
Trempealeau	1,436	1,229	323,157	329,916
Vernon	2,228	1,961	345,892	337,086
Vilas	47	67	6,881	5,652
Walworth	870	941	187,711	192,422
Washburn	405	372	87,387	73,773
Washington	712	578	133,432	126,146
Waukesha	557	574	92,211	97,460
Waupaca	1,145	1,031	215,330	201,603
Waushara	592	633	145,210	135,306
Winnebago	1,117	957	155,520	162,052
Wood	1,067	1,062	222,730	220,891

Wisconsin 69,754 64,793 14,568,926 14,318,630
 (D) Not published to avoid disclosing individual operations.

2017 CENSUS OF AGRICULTURE

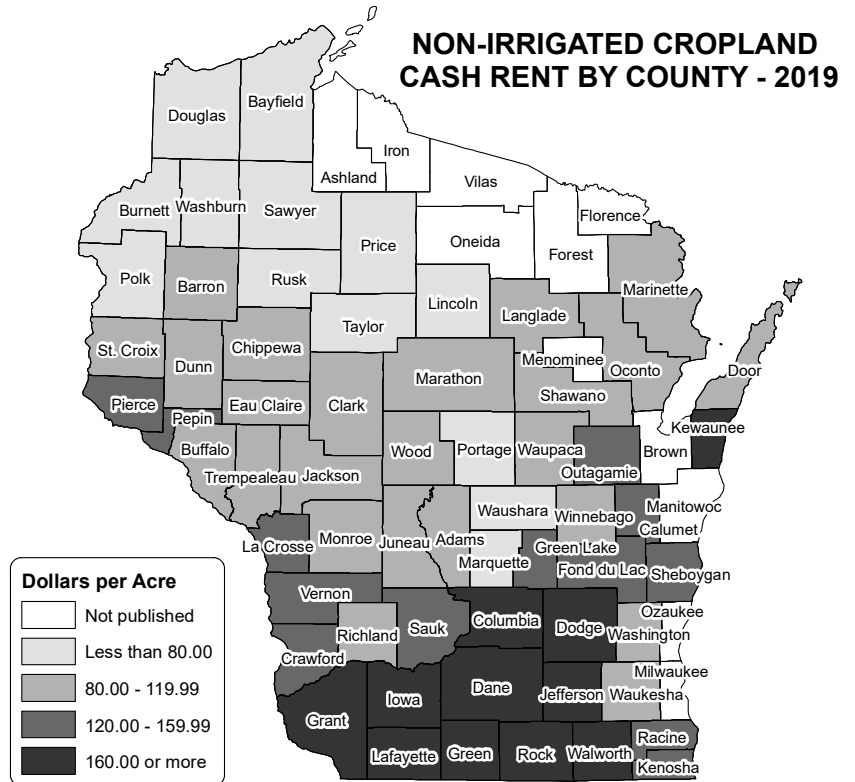


NON-IRRIGATED CROPLAND CASH RENT: VALUE, BY COUNTIES, WISCONSIN, 2017 & 2019 1/

County	2017	2019
Dollars per acre		
Barron	83.50	88.00
Bayfield	-	17.50
Burnett	46.00	60.00
Chippewa	117.00	105.00
Douglas	-	33.00
Polk	77.00	78.50
Rusk	70.00	65.50
Sawyer	41.50	50.00
Washburn	51.00	49.50
Combined counties	26.00	-
Northwest	84.50	81.50
Ashland	-	-
Clark	105.00	115.00
Iron	-	-
Lincoln	56.00	57.50
Marathon	95.50	93.00
Oneida	-	-
Price	35.00	33.50
Taylor	78.00	76.00
Vilas	-	-
Combined counties	29.50	34.50
North Central	90.00	95.50
Florence	-	-
Forest	-	-
Langlade	79.00	81.00
Marinette	66.50	96.00
Menominee	-	-
Oconto	119.00	113.00
Shawano	99.00	107.00
Combined counties	15.50	18.00
Northeast	95.50	100.00
Buffalo	131.00	114.00
Dunn	102.00	102.00
Eau Claire	88.50	87.50
Jackson	108.00	118.00
La Crosse	152.00	148.00
Monroe	130.00	101.00
Pepin	144.00	139.00
Pierce	152.00	138.00
St Croix	98.00	115.00
Trempealeau	124.00	111.00
West Central	120.00	116.00
Adams	77.00	82.00
Green Lake	133.00	158.00
Juneau	90.50	89.50
Marquette	75.50	79.00
Portage	66.00	62.00
Waupaca	79.00	90.50
Waushara	53.00	55.00
Wood	104.00	90.00
Central	88.50	91.00
Brown	165.00	-
Calumet	134.00	155.00
Door	-	84.00
Fond du Lac	173.00	154.00
Kewaunee	-	174.00
Manitowoc	158.00	-
Outagamie	124.00	145.00
Sheboygan	108.00	121.00
Winnebago	91.50	90.00
Combined counties	134.00	161.00
East Central	143.00	143.00

County	2017	2019
Dollars per acre		
Crawford	134.00	125.00
Grant	185.00	204.00
Iowa	169.00	174.00
Lafayette	230.00	215.00
Richland	107.00	118.00
Sauk	127.00	140.00
Vernon	140.00	142.00
Southwest	167.00	175.00
Columbia	189.00	195.00
Dane	180.00	174.00
Dodge	199.00	189.00
Green	164.00	201.00
Jefferson	148.00	169.00
Rock	161.00	217.00
South Central	175.00	190.00
Kenosha	139.00	153.00
Milwaukee	-	-
Ozaukee	-	-
Racine	128.00	128.00
Walworth	184.00	185.00
Washington	108.00	112.00
Waukesha	128.00	118.00
Combined counties	95.50	99.00
Southeast	135.00	136.00
Wisconsin	133.00	137.00

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



FARM PRODUCTION EXPENDITURES: WISCONSIN, 2015-2018

Expenditure - farm share	Total expenditures				Percent of production expenses			
	2015	2016	2017	2018	2015	2016	2017	2018
	Million dollars				Percent			
Total farm production expenditures 1/	10,910	10,910	11,425	10,050	100.0	100.0	100.0	100.0
Livestock, poultry & related expenses 2/	450	460	630	610	4.1	4.2	5.5	6.1
Feed	1,880	1,950	1,930	1,790	17.2	17.9	16.9	17.8
Farm services 3/	1,530	1,550	1,590	1,400	14.0	14.2	13.9	13.9
Rent 4/	590	590	580	560	5.4	5.4	5.1	5.6
Agricultural chemicals 5/	320	330	360	320	2.9	3.0	3.2	3.2
Fertilizer, lime & soil conditioners 5/	780	710	720	660	7.1	6.5	6.3	6.6
Interest	430	420	450	460	3.9	3.8	3.9	4.6
Taxes (real estate & property)	450	380	380	400	4.1	3.5	3.3	4.0
Labor	880	1,070	1,050	1,110	8.1	9.8	9.2	11.0
Fuels	380	330	370	395	3.5	3.0	3.2	3.9
Farm supplies & repairs 6/	800	840	790	700	7.3	7.7	6.9	7.0
Farm improvements & construction 7/	900	910	950	400	8.2	8.3	8.3	4.0
Tractors and self-propelled farm machinery	400	360	440	280	3.7	3.3	3.9	2.8
Other farm machinery	310	250	310	170	2.8	2.3	2.7	1.7
Seeds & plants 8/	670	650	700	720	6.1	6.0	6.1	7.2
Trucks & autos	120	100	150	50	1.1	0.9	1.3	0.5
Misc capital expenses 9/	20	10	25	25	0.2	0.1	0.2	0.2
	Average per farm 10/				Farms reporting 11/			
	2015	2016	2017	2018	2015	2016	2017	2018
	Dollars				Percent			
Total farm production expenditures 1/	158,345	158,806	176,312	155,093	100.0	100.0	100.0	100.0
Livestock, poultry & related expenses 2/	6,531	6,696	9,722	9,414	27.3	27.3	30.9	32.2
Feed	27,286	28,384	29,784	27,623	51.5	55.4	55.9	57.2
Farm services 3/	22,206	22,562	24,537	21,605	93.9	94.5	95.7	91.6
Rent 4/	8,563	8,588	8,951	8,642	34.1	33.9	33.9	31.7
Agricultural chemicals 5/	4,644	4,803	5,556	4,938	50.6	51.5	49.8	47.5
Fertilizer, lime & soil conditioners 5/	11,321	10,335	11,111	10,185	59.5	54.7	53.7	53.7
Interest	6,241	6,114	6,944	7,099	41.1	48.4	44.3	40.2
Taxes (real estate & property)	6,531	5,531	5,864	6,173	100.0	100.0	100.0	100.0
Labor	12,772	15,575	16,204	17,130	19.7	22.6	23.7	23.4
Fuels	5,515	4,803	5,710	6,096	88.5	83.5	85.0	80.1
Farm supplies & repairs 6/	11,611	12,227	12,191	10,802	82.8	87.4	86.0	79.8
Farm improvements & construction 7/	13,062	13,246	14,660	6,173	52.9	61.4	58.1	52.1
Tractors and self-propelled farm machinery	5,806	5,240	6,790	4,321	15.5	11.0	18.3	12.2
Other farm machinery	4,499	3,639	4,784	2,623	21.4	23.3	23.5	25.7
Seeds & plants 8/	9,724	9,461	10,802	11,111	58.1	56.7	55.4	56.2
Trucks & autos	1,742	1,456	2,315	772	11.9	11.0	14.7	8.9
Misc capital expenses 9/	290	146	386	386	5.3	1.6	6.3	7.3

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 INCOME INDICATIONS: WISCONSIN, 2014-2018 1/

Commodity	2014	2015	2016	2017	2018
	1,000 dollars				
Value of crop production	3,677,526	3,290,128	3,560,748	3,227,140	3,478,336
Crop cash receipts	3,421,085	3,371,155	3,573,419	3,484,113	3,548,411
Feed crops	1,577,730	1,467,082	1,396,351	1,410,440	1,480,951
Food grains	92,096	70,883	72,642	62,898	63,796
Fruits and nuts	180,650	176,800	203,242	184,547	144,592
Oil crops	689,426	725,898	983,902	889,951	884,537
Vegetables and melons	456,807	475,383	449,661	455,527	476,437
All other crops	424,377	455,108	467,622	480,751	498,098
Home consumption	2,846	3,082	2,635	6,863	6,660
Inventory adjustment 2/	253,595	-84,109	-15,306	-263,836	-76,734
Value of animals and products production	9,636,249	7,939,298	7,251,530	7,794,248	7,315,599
Animals and products cash receipts	9,477,409	7,925,254	7,168,356	7,833,164	7,346,390
Dairy products, Milk	6,745,095	5,121,238	5,014,800	5,444,480	5,002,800
Meat animals	2,145,088	2,234,309	1,737,302	1,968,757	1,875,432
Miscellaneous livestock	257,369	197,681	165,696	139,117	121,930
Poultry and eggs	329,857	372,026	250,558	280,810	346,228
Home consumption	14,429	14,764	14,730	18,633	19,441
Inventory adjustment 2/	144,411	-720	68,445	-57,549	-50,232
Farm-related income	1,557,366	1,755,798	1,381,157	1,593,867	1,302,542
Forest products sold	18,937	20,631	28,885	27,073	30,825
Gross imputed rental value of farm dwellings	678,255	670,126	688,550	727,175	668,350
Machine hire and customwork	105,696	302,921	141,301	251,813	117,792
Other farm income	754,478	762,119	522,422	587,807	485,575
Total commodity insurance indemnities	323,969	238,632	84,169	170,749	133,072
Federal commodity insurance indemnities	298,705	206,318	42,648	80,491	91,266
Net cash rent received by operator landlords 3/	114,762	96,616	102,998	80,526	50,984
Value of agricultural sector production	14,871,141	12,985,224	12,193,435	12,615,255	12,096,478
Intermediate product expenses 4/	7,898,349	6,889,776	6,904,958	7,158,912	6,571,583
Farm origin	3,321,890	2,739,633	2,778,353	3,011,329	2,756,211
Feed purchases	2,350,000	1,880,000	1,950,000	1,930,000	1,790,000
Livestock and poultry purchases	181,890	189,633	178,353	381,329	246,211
Seed purchases	790,000	670,000	650,000	700,000	720,000
Manufactured inputs	2,080,894	1,709,436	1,642,279	1,706,381	1,611,481
Electricity	245,239	208,796	237,000	230,503	195,332
Fertilizer, lime, and soil conditioners	890,000	780,000	710,000	720,000	660,000
Pesticides	340,000	320,000	330,000	360,000	320,000
Fuel and oils	605,655	400,640	365,279	395,878	436,149
Other intermediate expenses 4/	2,495,565	2,440,707	2,484,326	2,441,201	2,203,891
Machine hire and custom work	206,041	233,943	210,167	209,187	165,642
Marketing, storage, and transportation	321,149	357,763	347,064	368,141	382,425
Repair and maintenance 4/	752,821	675,609	745,287	690,853	572,273
Miscellaneous expenses 4/	1,215,555	1,173,392	1,181,808	1,173,021	1,083,551
Total insurance premiums 5/	336,485	329,114	310,241	309,583	302,645
Federal commodity insurance premiums	95,245	88,080	76,944	81,227	77,412
Irrigation	504	517	821	672	2,241
Contract labor	27,555	26,761	22,903	34,138	23,320
Net government transactions	-437,641	-157,862	-112,004	-261,816	-111,767
Direct government payments	92,142	305,627	285,304	134,422	300,846
Property taxes and fees 4/	529,783	463,489	397,308	396,238	412,614
Motor vehicle registration and licensing fees	19,783	13,489	17,308	16,238	12,614
Gross value added	6,507,597	5,910,825	5,153,571	5,160,390	5,389,807
Capital consumption 4/	1,584,527	1,383,411	1,431,902	1,223,722	1,110,715
Net value added	4,923,070	4,527,414	3,721,669	3,936,667	4,279,093
Factor payments to stakeholders	2,036,496	1,834,262	2,091,948	2,069,470	2,114,313
Hired labor and non-cash employee compensation	1,012,445	853,239	1,047,097	1,015,862	1,086,680
Net rent paid to operator landlords	118,678	98,393	105,496	84,654	52,672
Net rent paid to nonoperator landlords	278,296	230,728	247,383	198,511	123,514
Total interest expenses 4/	627,077	651,902	691,972	770,443	851,448
Net farm income	2,886,574	2,693,152	1,629,721	1,867,197	2,164,780

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, 2014-2018 1/

Commodity	2014		2015		2016		2017		2018	
	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	12,898,494		11,296,409		10,741,775		11,317,277		10,894,801	
Animals and products	9,477,409	73.5	7,925,254	70.2	7,168,356	66.7	7,833,164	69.2	7,346,390	67.4
Meat animals	2,145,088	16.6	2,234,309	19.8	1,737,302	16.2	1,968,757	17.4	1,875,432	17.2
Cattle and calves	2,008,775	15.6	2,128,331	18.8	1,639,375	15.3	1,846,035	16.3	1,752,726	16.1
Hogs	136,313	1.1	105,978	0.9	97,927	0.9	122,722	1.1	122,706	1.1
Dairy products, Milk	6,745,095	52.3	5,121,238	45.3	5,014,800	46.7	5,444,480	48.1	5,002,800	45.9
Poultry and eggs	329,857	2.6	372,026	3.3	250,558	2.3	280,810	2.5	346,228	3.2
Broilers	142,879	1.1	121,803	1.1	108,602	1.0	122,944	1.1	127,899	1.2
Chicken eggs	129,900	1.0	188,910	1.7	79,493	0.7	108,619	1.0	176,103	1.6
Farm chickens	497	*	528	*	353	*	166	*	262	*
Turkeys	56,581	0.4	60,785	0.5	62,110	0.6	49,081	0.4	41,964	0.4
Misc. animals and products	257,369	2.0	197,681	1.7	165,696	1.5	139,117	1.2	121,930	1.1
Trout	1,537	*	1,462	*	1,558	*	1,694	*	1,468	*
Honey	6,812	0.1	8,466	0.1	8,939	0.1	8,370	0.1	6,334	0.1
Mohair	19	*	18	*	17	*	18	*	19	*
Other animals and products	248,738	1.9	187,461	1.7	154,944	1.4	128,820	1.1	113,912	1.0
Mink pelts	73,207	0.6	42,132	0.4	39,812	0.4	40,908	0.4	25,845	0.2
Wool	263	*	274	*	238	*	215	*	198	*
Crops	3,421,085	26.5	3,371,155	29.8	3,573,419	33.3	3,484,113	30.8	3,548,411	32.6
Food grains	92,096	0.7	70,883	0.6	72,642	0.7	62,898	0.6	63,796	0.6
Rye	4,668	*	5,548	*	5,876	0.1	7,138	0.1	8,709	0.1
Wheat	87,428	0.7	65,336	0.6	66,765	0.6	55,760	0.5	55,087	0.5
Feed crops	1,577,730	12.2	1,467,082	13.0	1,396,351	13.0	1,410,440	12.5	1,480,951	13.6
Barley	1,128	*	1,033	*	NA	(NA)	(NA)	(NA)	299	*
Corn	1,378,247	10.7	1,343,143	11.9	1,305,917	12.2	1,308,075	11.6	1,359,714	12.5
Hay	183,098	1.4	109,063	1.0	84,447	0.8	95,262	0.8	113,322	1.0
Oats	15,256	0.1	13,842	0.1	5,987	0.1	7,103	0.1	7,616	0.1
Oil crops	689,426	5.3	725,898	6.4	983,902	9.2	889,951	7.9	884,537	8.1
Soybeans	689,426	5.3	725,898	6.4	983,902	9.2	889,951	7.9	884,537	8.1
Vegetables and melons	456,807	3.5	475,383	4.2	449,661	4.2	455,527	4.0	476,437	4.4
Potatoes, Fall	257,078	2.0	267,796	2.4	298,905	2.8	310,834	2.7	306,139	2.8
Beans, Green lima, Processing	1,702	*	1,725	*	3,258	*	3,799	*	3,296	*
Beans, Snap 2/	57,633	0.4	66,472	0.6	45,634	0.4	40,115	0.4	49,761	0.5
Cabbage 3/	10,295	0.1	15,581	0.1	13,848	0.1	13,396	0.1	15,631	0.1
Carrots 2/	9,569	0.1	9,652	0.1	10,588	0.1	8,820	0.1	7,092	0.1
Corn, Sweet	62,212	0.5	57,061	0.5	48,958	0.5	44,863	0.4	40,181	0.4
Corn, Sweet, Fresh	10,035	0.1	13,976	0.1	15,960	0.1	12,499	0.1	8,737	0.1
Corn, Sweet, Processing	52,177	0.4	43,085	0.4	32,998	0.3	32,364	0.3	31,444	0.3
Cucumbers 2/	10,039	0.1	9,538	0.1	9,210	0.1	8,314	0.1	39,735	0.4
Peas, Green 2/	26,685	0.2	27,110	0.2	13,007	0.1	14,363	0.1	11,811	0.1
Pumpkins	(NA)	(NA)	(NA)	(NA)	6,254	0.1	11,023	0.1	2,791	*
Fruits and nuts	180,650	1.4	176,800	1.6	203,242	1.9	184,547	1.6	144,592	1.3
Apples	31,202	0.2	27,825	0.2	21,819	0.2	26,297	0.2	(NA)	(NA)
Cherries, Tart	4,808	*	3,049	*	4,076	*	2,109	*	1,928	*
Cranberries	138,370	1.1	140,146	1.2	177,347	1.7	156,141	1.4	142,664	1.3
All other crops	424,377	3.3	455,108	4.0	467,622	4.4	480,751	4.2	498,098	4.6
Maple products	6,680	0.1	7,117	0.1	7,873	0.1	6,500	0.1	7,290	0.1
Peppermint oil	2,493	*	2,477	*	4,407	*	3,774	*	5,542	0.1
Floriculture	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	86,001	0.8
Mushrooms	2,592	*	2,729	*	2,693	*	2,738	*	2,755	*
Miscellaneous crops	411,225	3.2	441,525	3.9	452,649	4.2	467,739	4.1	396,510	3.6

* = 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, 2014-2018 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									
2014	872	48,550	5,037	72	3,238	5,880	944	51,788	5,090
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
LAND WITH BUILDINGS AND IMPROVEMENTS									
2014	639	48,869	5,775	45	1,479	5,771	684	50,348	5,775
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
TOTAL									
2014	1,511	97,419	5,407	117	4,717	5,846	1,628	102,136	5,428
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

1/ Land sales figures reported in these tables include only averages of 'arm's length' transactions. 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, 2018 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	7	276	3,871	3	94	11,251	10	370	5,746	2,500	4,800
Ashland	3	165	1,542	-	-	-	3	165	1,542	880	1,600
Barron	26	1,192	2,502	1	6	2,600	27	1,198	2,503	1,383	3,470
Bayfield	9	400	1,458	-	-	-	9	400	1,458	881	2,253
Brown	17	923	11,441	4	136	24,261	21	1,059	13,087	6,116	16,179
Buffalo	9	566	4,319	2	20	4,250	11	586	4,317	3,725	5,581
Burnett	5	340	1,779	1	41	1,427	6	381	1,741	1,700	2,100
Calumet	13	1,220	10,631	1	26	14,308	14	1,246	10,707	9,000	12,000
Chippewa	24	1,611	3,066	2	31	2,303	26	1,642	3,052	1,875	6,500
Clark	24	1,116	4,619	1	10	2,100	25	1,126	4,596	2,200	6,200
Columbia	13	747	7,218	-	-	-	13	747	7,218	4,099	12,500
Crawford	14	512	3,529	1	27	3,452	15	539	3,525	2,800	4,600
Dane	29	1,873	8,912	10	424	21,004	39	2,297	11,144	4,000	20,000
Dodge	20	865	7,091	1	27	23,000	21	892	7,573	5,051	10,000
Door	6	271	4,145	-	-	-	6	271	4,145	2,900	4,725
Douglas	2	85	1,219	-	-	-	2	85	1,219	960	1,400
Dunn	27	1,593	3,985	1	8	3,125	28	1,601	3,981	1,877	6,500
Eau Claire	15	636	4,176	1	14	4,079	16	650	4,174	1,753	7,500
Florence	2	51	1,914	-	-	-	2	51	1,914	1,600	2,000
Fond du Lac	22	1,130	6,512	-	-	-	22	1,130	6,512	3,650	9,500
Forest	-	-	-	-	-	-	-	-	-	-	-
Grant	41	3,708	6,922	-	-	-	41	3,708	6,922	1,850	13,600
Green	12	864	6,095	1	30	6,200	13	894	6,098	3,200	7,860
Green Lake	11	452	7,865	-	-	-	11	452	7,865	4,600	12,000

AGRICULTURAL LAND SALES: LAND WITHOUT BUILDINGS AND IMPROVEMENTS, WISCONSIN, 2018 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	31	1,924	5,270	-	-	-	31	1,924	5,270	3,100	8,800
Iron	-	-	-	-	-	-	-	-	-	-	-
Jackson	10	642	3,946	-	-	-	10	642	3,946	2,575	5,685
Jefferson	12	1,107	7,204	2	83	6,093	14	1,190	7,127	4,707	9,065
Juneau	6	200	3,527	2	63	4,841	8	263	3,841	2,900	4,000
Kenosha	7	416	11,250	4	170	24,828	11	586	15,189	6,651	19,200
Kewaunee	5	312	6,677	-	-	-	5	312	6,677	5,715	8,200
La Crosse	14	743	4,675	2	31	4,113	16	774	4,653	2,000	8,558
Lafayette	17	1,170	6,953	1	10	5,800	18	1,180	6,943	4,245	8,791
Langlade	6	294	3,936	-	-	-	6	294	3,936	2,051	5,000
Lincoln	8	249	2,142	1	13	1,954	9	262	2,133	757	2,740
Manitowoc	34	1,729	8,156	-	-	-	34	1,729	8,156	3,350	14,000
Marathon	33	1,370	3,873	11	330	3,996	44	1,700	3,897	2,300	6,752
Marinette	7	241	4,503	1	5	3,000	8	246	4,472	3,600	6,000
Marquette	9	465	3,406	-	-	-	9	465	3,406	2,600	4,900
Milwaukee	-	-	-	2	49	15,829	2	49	15,829	-	-
Monroe	21	991	3,634	2	332	11,836	23	1,323	5,692	1,845	5,870
Oconto	4	310	6,110	4	110	4,598	8	420	5,714	3,000	8,400
Oneida	-	-	-	-	-	-	-	-	-	-	-
Outagamie	15	742	7,888	1	29	15,931	16	771	8,191	3,531	15,000
Ozaukee	10	555	7,705	1	6	16,000	11	561	7,794	5,850	12,500
Pepin	10	562	3,960	-	-	-	10	562	3,960	2,975	5,414
Pierce	15	893	5,175	1	17	3,247	16	910	5,139	3,195	8,359
Polk	26	1,129	3,618	1	15	2,033	27	1,144	3,597	1,700	7,051
Portage	15	659	3,917	7	136	3,832	22	795	3,902	3,000	4,600
Price	3	79	1,322	-	-	-	3	79	1,322	1,300	1,352
Racine	12	450	7,468	6	226	21,866	18	676	12,282	2,900	12,000
Richland	19	812	3,395	1	12	2,150	20	824	3,377	1,500	5,350
Rock	14	1,256	7,109	2	57	24,772	16	1,313	7,875	1,800	10,100
Rusk	4	227	1,972	2	22	1,795	6	249	1,956	726	3,500
Sauk	27	1,478	4,480	3	70	24,786	30	1,548	5,398	3,000	8,850
Sawyer	3	108	1,839	-	-	-	3	108	1,839	1,152	2,185
Shawano	22	915	5,971	1	6	5,000	23	921	5,965	3,500	9,550
Sheboygan	18	883	6,018	-	-	-	18	883	6,018	3,550	8,200
St. Croix	30	1,524	4,524	5	184	7,253	35	1,708	4,818	1,800	7,400
Taylor	13	661	2,095	2	24	2,233	15	685	2,100	1,203	3,000
Trempealeau	13	510	3,393	2	67	3,854	15	577	3,446	1,025	5,704
Vernon	26	1,069	4,274	1	18	3,300	27	1,087	4,258	2,600	6,450
Vilas	-	-	-	-	-	-	-	-	-	-	-
Walworth	16	651	7,990	-	-	-	16	651	7,990	4,900	11,900
Washburn	7	211	1,864	-	-	-	7	211	1,864	1,000	2,500
Washington	14	486	9,194	-	-	-	14	486	9,194	3,600	20,800
Waukesha	6	235	10,138	3	152	25,016	9	387	15,982	5,750	27,000
Waupaca	13	811	3,914	-	-	-	13	811	3,914	1,659	4,751
Waushara	6	301	3,109	-	-	-	6	301	3,109	2,548	3,635
Winnebago	22	978	5,308	3	84	18,621	25	1,062	6,361	4,000	10,845
Wood	10	477	2,941	2	37	3,000	12	514	2,945	1,900	4,650
Wisconsin	964	51,421	5,587	106	3,252	13,280	1,070	54,673	6,045	726	27,000

1/ Land sales figures reported in these tables include only averages of 'arm's length' transactions. 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

The 2018 crop season was a challenging one for farmers in Wisconsin, with a variety of severe weather events impacting crop progress and condition. April opened with below-normal temperatures and frequent snow, including the record-breaking blizzard of April 12-15. Deep snow and cold soils delayed the start of the 2018 planting season significantly. Then, above-normal temperatures in May helped spring fieldwork catch up to the five-year average by the beginning of June. During May, frequent rains kept fields wet and planting progress slow in southern Wisconsin, but soils in the northern portions of the state became dry. Severe thunderstorms lashed the state in mid-June, missing some areas, bringing much-needed rain to others, and causing localized flood damage. Warm weather in late June and early July pushed overall crop progress ahead of the five-year average. But ongoing spotty rains left parts of northern Wisconsin unfavorably dry during the critical period for crop pollination. From mid-August through September, a series of severe storms damaged crops in multiple areas of the state with extreme heavy rain, flooding, flash flooding, hail, wind and tornadoes. Emergencies were declared in 18 counties across southern and central Wisconsin during this period. Some of the floodwaters took weeks to recede due to repeated weekly rain storms. Crops along affected waterways were damaged or lost, while road and bridge washouts disrupted rural transportation. This massive influx of moisture set the state up for a difficult harvest season. Continuing wet weather kept soil moistures high for the rest of the year. Summer-like days in the 80s and 90s persisted through September, helping crops to mature. Temperatures then nosedived, with widespread frost and light snow reported during the week ending October 14. Farmers struggled with frequent precipitation, deep mud and the emergence of damp-driven molds and diseases throughout October and November. Below-normal temperatures in mid-November then froze the ground, finally allowing access to unharvested fields but halting tillage. On November 25, fall tillage reached 68 percent complete, 1 day ahead of the previous year but 4 days behind average.

Temperatures in April of 2018 averaged 10.5 degrees below normal, while May averaged 6.7 degrees above normal. The remainder of the growing season months ranged from 0.8 to 2.6 degrees above normal, before temperatures fell to 2.9 degrees below normal in October. The average temperature for June through September was 66.6 degrees, compared with 65.2 degrees in 2017 and a normal of 64.9 degrees.

The statewide precipitation total for April through September was 27.35 inches, compared to 25.93 inches the previous year and a normal of 22.43 inches. The 2018 season showed a strong regional variation in precipitation; April through September precipitation averaged 0.96 inch above normal for the three northern districts, 6.00 inches above normal for the three central districts and 11.58 inches above normal for the three southern districts. It was also the snowiest April on record for the state, with a statewide average of 17.9 inches more snow than normal. April snow totals ranged from 9.4 inches for the Southeast District to 33.3 inches for the Northeast District.

Corn planted for all purposes totaled 3.90 million acres in 2018, the same as the previous year. There were 3.17 million acres harvested for grain, up 8 percent from 2017. Grain yield fell to 172 bushels per acre, down 2 bushels per acre from the previous year. Acres harvested for silage fell 24 percent to 670,000 acres and silage production was down 20 percent to 13.4 million tons.

Soybean planted acreage rose 2 percent to 2.20 million acres. Harvested acres rose 1 percent to 2.16 million acres statewide. Both planted and harvested acreage set new record highs in 2018. The average yield for soybeans in Wisconsin was 49.0 bushels per acre, 1.5 bushels per acre more than the previous year. Total production rose 4 percent to 106 million bushels.

Wisconsin produced 5.49 million bushels of oats in 2018, a 9 percent increase from 2017. This was due to 15,000 more harvested acres and an increase in yields. Average yield was 61 bushels per acre in 2018 compared to 59 bushels per acre in 2017.

There were 240,000 acres of winter wheat planted in 2018, up 30,000 acres from 2017. Acres harvested were also up 30,000 acres to 200,000 acres while yields rose 3 bushels per acre. This caused production to increase 23 percent to 14.2 million bushels.

Heavy snow cover during April helped keep alfalfa and other hay stands well insulated. As of May 20, winter freeze damage to alfalfa was rated 2 percent severe, 4 percent moderate and 12 percent light. There were reportedly no damages to the remaining 82 percent of alfalfa, up from 59 percent undamaged the previous year. The first, second and third cuttings of hay progressed in line with the 5-year average. Dry conditions in northern Wisconsin helped producers there bale lots of dry hay, while wet fields in southern Wisconsin made haying more difficult. Very wet conditions then dragged progress down during the fall. Some producers reported taking a fourth crop of hay while waiting to access their soybean fields, while others said hay stands were too muddy for a fourth crop. Some reporters commented that late haying and cold fall temperatures might affect hay fields' ability to overwinter. All hay condition was 80 percent good to excellent on average for May through mid-September, compared with 77 percent good to excellent in 2017.

In 2018, potato planted acres were down 2,000 and harvested acres were down 3,000 to 67,000 acres harvested in total. The average yield was down 5 percent from the previous year at 405 cwt. per acre. Overall production was 27.1 million cwt., down 9 percent from the previous year.

Wisconsin remained the top producer in the nation for snap beans, contributing 38 percent of the national production in 2018. The state also ranked third for total production of carrots, green peas and sweet corn.

There were 20,700 acres of cranberries harvested in 2018, up 100 acres from the previous year. Cranberry production was 5.55 million barrels, an increase of 3 percent from 2017. Yields averaged 267.8 barrels per acre. Wisconsin remained the top cranberry producing state, with 62 percent of the national production. Tart cherry production was down 4 percent to 10.9 million pounds. Tart cherry bearing acres fell from 1,600 acres in 2017 to 1,500 acres in 2018.

CROP RECORDS IN WISCONSIN AGRICULTURE

Commodity	Unit	2018	Record high		Record low		Year estimate started
			Quantity	Year 1/	Quantity	Year 1/	
Corn for grain							
Harvested	Acres	3,170,000	3,500,000	1981	478,000	1927	1866
Yield	Bu.	172.0	178.0	2016	21.0	1883	1866
Production	Bu.	545,240,000	573,160,000	2016	13,862,000	1927	1866
Corn for silage							
Harvested	Acres	670,000	1,450,000	1988	570,000	1991	1919
Yield	Tons	20.0	21.0	2016	4.2	1936	1919
Production	Tons	13,400,000	18,915,000	2015	5,085,000	1920	1919
Soybeans							
Harvested	Acres	2,160,000	2,160,000	2018	1,000	1927	1924
Yield	Bu.	49.0	55.0	2016	9.0	1925	1924
Production	Bu.	105,840,000	107,250,000	2016	10,000	1927	1924
Barley							
Harvested	Acres	10,000	929,000	1935	10,000	2018	1866
Yield	Bu.	45.0	64.0	2000	20.5	1936	1866
Production	Bu.	450,000	25,548,000	1935	450,000	2018	1866
Oats							
Harvested	Acres	90,000	2,987,000	1945	85,000	2017	1866
Yield	Bu.	61.0	72.0	2015	22.0	1907	1866
Production	Bu.	5,490,000	156,221,000	1958	5,015,000	2017	1866
Wheat, all							
Harvested	Acres	200,000	2,050,000	1878	27,000	1973	1866
Yield	Bu.	71.0	79.0	2016	8.0	1876	1866
Production	Bu.	14,200,000	26,250,000	1873	890,000	1973	1866
Forage, all (dry equivalent)							
Harvested	Acres	2,210,000	4,400,000	1989	2,190,000	2017	1981
Yield	Tons	2.93	4.91	1986	2.19	1988	1981
Production	Tons	6,479,000	18,402,000	1986	6,479,000	2018	1981
Hay, all (dry only)							
Harvested	Acres	1,360,000	4,263,000	1944	1,330,000	2016	1909
Yield	Tons	2.17	3.49	1982	0.94	1934	1909
Production	Tons	2,953,000	12,770,000	1984	2,846,000	1910	1909
Potatoes, all							
Harvested	Acres	67,000	325,000	1922	45,500	1972	1866
Yield	Cwt.	405.0	460.0	2012	25.8	1894	1866
Production	Cwt.	27,135,000	34,000,000	1999	2,306,000	1870	1866
Cranberries							
Harvested	Acres	20,700	21,100	2016	1,200	1900	1900
Yield	Barrels	267.8	288.2	2016	7.5	1908	1900
Production	Barrels	5,545,000	6,130,000	2016	12,000	1908	1900
Sweet corn, processing							
Production	Tons	463,100	1,001,750	1994	5,500	1932	1918
Green peas, processing							
Production	Tons	48,881	177,550	1979	35,620	1932	1918
Snap beans, processing							
Production	Tons	312,840	365,934	2016	1,900	1921	1918
Maple syrup							
Production	Gal.	225,000	265,000	2013	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, 2018**

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual		
													Total	Change from station normal 1/	
	Inches														
NORTHWEST															
Bloomer	0.86	0.96	1.02	1.23	2.70	4.65	2.16	4.71	3.84	4.87	1.83	1.83	30.66	-0.89	
Gordon	0.38	1.49	1.33	0.95	3.98	9.44	2.30	6.70	5.21	3.96	1.80	1.55	39.09	7.18	
Spoooner	0.58	1.29	1.30	0.96	3.06	5.17	2.91	2.95	6.02	3.14	1.64	1.07	30.09	-0.91	
District	0.85	1.31	1.03	1.39	3.04	5.68	3.24	4.95	4.71	4.51	1.75	1.46	33.92	2.08	
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															
Medford	1.42	1.30	1.68	2.02	1.89	4.72	2.12	3.81	4.75	6.57	1.99	1.35	33.62	0.54	
Rhineland	1.18	1.18	1.92	2.34	1.76	7.92	3.75	2.12	5.30	6.42	2.02	1.44	37.35	5.95	
Wausau	1.24	1.23	1.63	3.23	3.08	5.07	3.27	5.77	5.53	6.01	1.90	1.31	39.27	6.86	
District	1.40	1.20	1.16	2.15	2.47	6.13	2.83	4.09	4.77	5.57	2.12	1.31	35.20	3.10	
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	0.95	1.11	0.69	1.92	1.87	5.22	3.37	2.03	5.71	6.69	2.18	0.81	32.55	3.42	
Marinette	1.01	1.51	0.48	3.48	2.43	4.32	3.61	2.94	2.54	7.06	1.43	1.25	32.06	-0.53	
Shawano	0.74	1.37	1.01	4.36	3.89	5.06	2.08	5.55	3.65	5.45	1.94	1.10	36.20	4.87	
District	1.07	1.19	0.99	2.99	2.89	4.92	3.30	3.84	3.93	5.83	2.20	1.20	34.35	3.65	
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	1.38	1.22	1.14	2.98	7.41	4.42	2.40	6.88	6.08	3.95	2.72	2.01	42.59	9.53	
Menomonie	1.13	1.13	1.22	1.51	4.79	3.43	1.55	4.82	4.34	4.78	2.03	1.98	32.71	1.46	
Mondovi	1.34	1.06	0.89	1.91	5.40	5.04	2.80	5.79	6.37	5.07	1.63	1.81	39.11	4.42	
District	1.27	1.14	0.94	2.40	5.34	4.56	2.76	5.51	6.27	4.73	1.89	1.77	38.58	5.14	
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	1.32	1.10	0.67	2.45	4.08	5.50	2.64	4.46	4.94	5.00	1.77	1.25	35.18	2.46	
Montello	1.07	1.51	0.69	4.19	8.26	4.18	5.45	14.84	6.08	4.66	2.07	2.10	55.10	20.63	
Waupaca	0.64	1.24	0.88	5.17	5.61	4.92	2.66	5.84	5.48	4.34	2.31	1.32	40.41	6.92	
District	0.95	1.20	0.79	3.91	5.90	4.98	2.94	8.07	6.10	4.90	1.97	1.61	43.32	10.91	
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	1.04	1.46	0.99	4.87	3.67	4.81	3.13	6.32	4.96	4.86	1.34	1.76	39.21	9.69	
Oshkosh	0.81	1.12	0.62	3.18	7.44	4.80	3.37	7.28	5.33	4.97	1.51	1.76	42.19	10.60	
Sturgeon Bay	1.63	1.41	0.94	5.05	3.41	3.24	2.48	2.74	2.41	4.46	1.76	1.83	31.36	-0.58	
District	1.25	1.37	0.79	3.73	5.68	3.75	3.47	7.09	3.90	4.92	1.61	1.79	39.35	8.06	
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	0.91	1.64	0.76	1.20	6.41	6.37	5.38	9.09	12.13	10.71	2.28	1.78	58.66	23.29	
Reedsburg	1.00	1.77	1.07	4.10	9.49	5.31	2.60	9.79	8.74	6.53	2.27	2.40	55.07	18.17	
Viroqua	1.28	1.52	0.82	4.56	8.75	5.66	2.89	10.13	8.62	5.49	2.71	1.87	54.30	19.77	
District	1.04	2.00	0.77	2.56	8.14	5.84	3.42	7.78	9.01	6.30	2.12	1.70	50.68	15.18	
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															
Beloit	2.13	2.91	0.67	1.75	4.36	9.43	2.27	6.28	7.48	6.29	1.67	2.66	47.90	11.56	
Madison	1.68	2.50	0.74	2.14	9.78	5.67	3.12	10.40	5.46	5.36	1.69	2.10	50.64	16.16	
Portage	0.95	1.75	0.71	3.45	9.40	7.61	2.16	11.41	7.31	5.42	2.06	1.80	54.03	17.89	
District	1.68	2.69	0.72	2.48	7.19	6.65	3.50	10.38	6.49	5.60	1.70	1.76	50.84	15.97	
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	1.57	2.95	0.50	2.47	6.93	4.77	4.07	10.05	6.36	4.63	1.88	1.87	48.05	15.16	
Kenosha	1.65	2.90	0.54	2.86	7.47	9.30	1.49	6.12	4.21	6.06	2.41	2.99	48.00	11.86	
Milwaukee	1.62	3.20	0.66	3.11	6.49	5.62	2.83	5.68	6.83	4.50	2.13	2.41	45.08	10.32	
District	1.66	2.79	0.64	2.53	6.05	6.40	2.63	7.19	5.96	5.28	1.99	1.74	44.86	10.56	
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	1.20	1.51	0.92	2.53	4.70	5.44	3.11	6.07	5.53	5.25	1.94	1.55	39.75	7.05	
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, 2018**

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	
													Average	Change from station normal 1/
Degrees F.														
NORTHWEST														
Bloomer	11.0	10.5	28.9	33.0	63.8	68.4	70.7	69.0	61.3	42.3	25.2	22.4	42.2	-1.4
Gordon	8.8	8.0	25.5	31.1	59.8	64.8	69.1	67.2	58.7	40.0	22.5	21.4	39.7	-1.3
Spoooner	10.1	9.1	26.6	32.1	63.0	67.1	69.8	68.5	60.4	41.5	23.7	22.7	41.2	-1.3
District	11.4	10.7	27.1	31.5	60.5	65.1	68.4	66.8	59.6	41.0	24.2	22.6	40.7	-0.8
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														
Medford	10.5	10.6	27.4	30.8	62.3	66.1	68.9	67.1	60.8	41.1	24.4	22.3	41.0	-1.1
Rhineland	10.9	11.1	24.3	28.6	60.4	63.7	67.2	66.1	58.7	39.3	23.6	22.4	39.7	-2.0
Wausau	16.2	15.8	28.4	33.1	63.3	67.5	71.0	69.5	60.6	43.0	26.4	24.4	43.3	-0.2
District	12.6	12.0	26.4	30.3	60.3	64.5	67.6	66.0	58.9	40.3	24.4	22.5	40.5	-0.7
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	13.0	13.2	23.8	30.8	58.3	61.4	67.5	66.2	58.2	40.3	24.6	23.4	40.1	-0.2
Marinette	18.2	19.0	29.1	34.3	59.0	64.0	71.2	69.8	62.1	45.0	30.4	28.0	44.2	-0.5
Shawano	15.4	17.3	29.8	33.3	62.9	67.1	71.4	69.8	61.8	43.0	27.9	25.7	43.8	0.0
District	14.7	15.6	27.3	32.1	60.0	63.8	68.5	67.1	59.2	41.6	26.6	24.4	41.7	-0.3
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	18.8	21.0	34.4	39.3	67.6	73.7	75.4	74.2	65.8	48.2	31.0	29.0	48.2	0.8
Menomonie	12.3	12.8	29.9	33.6	64.2	69.5	71.1	68.9	62.1	43.5	26.6	23.7	43.2	-0.8
Mondovi	16.4	17.6	32.7	37.4	66.9	72.8	73.2	72.0	65.2	47.2	29.2	25.9	46.4	1.4
District	14.1	15.3	31.0	34.5	64.2	69.3	71.4	69.6	62.6	44.3	27.3	24.5	44.0	-0.4
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	14.2	14.5	29.7	32.8	62.5	67.1	70.5	68.8	61.3	42.8	26.8	23.7	42.9	-1.1
Montello	17.4	19.2	32.2	36.1	64.1	68.5	70.9	70.3	62.9	46.3	30.1	27.1	45.4	0.0
Waupaca	16.2	18.2	30.9	34.0	63.4	67.9	72.2	70.4	61.5	43.9	28.6	25.6	44.4	-0.2
District	16.8	18.4	31.4	34.4	63.3	67.8	71.4	69.9	62.2	44.8	28.7	26.0	44.6	0.1
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	20.0	21.1	31.4	35.3	62.3	67.7	71.7	70.1	62.9	47.2	31.1	28.7	45.8	1.5
Oshkosh	19.2	20.8	32.7	36.7	64.8	69.4	73.7	72.8	65.3	47.7	31.2	29.0	46.9	0.5
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	19.2	20.9	31.0	34.8	60.8	66.1	70.7	69.9	62.1	46.1	30.3	28.1	45.0	0.2
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	17.7	18.9	33.3	37.3	64.7	69.6	71.7	70.8	64.0	46.9	29.3	28.4	46.1	0.4
Reedsburg	17.7	19.7	32.8	36.3	63.8	69.6	71.5	70.8	64.1	45.5	30.5	27.1	45.8	-1.3
Viroqua	14.4	16.6	30.7	34.0	62.2	67.2	69.8	68.5	60.8	43.8	26.4	24.5	43.3	-0.4
District	18.2	20.3	33.6	36.9	64.7	69.8	71.7	70.7	63.6	46.9	30.0	28.2	46.2	-0.0
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														
Beloit	17.4	20.5	32.3	35.9	61.7	66.5	69.5	69.3	62.3	45.8	29.8	26.2	44.8	-3.2
Madison	20.1	21.5	32.7	37.6	64.5	69.2	72.3	71.5	63.7	47.8	30.9	29.3	46.8	0.3
Portage	18.1	20.4	32.7	36.6	64.2	68.8	72.2	71.2	63.9	46.8	30.4	28.4	46.1	-0.5
District	18.8	21.1	33.2	36.7	63.9	68.5	71.7	70.9	64.1	47.3	30.7	28.2	46.3	-0.3
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	16.6	19.1	29.8	34.0	60.9	67.1	70.2	68.1	61.6	45.0	28.0	27.6	44.0	-1.3
Kenosha	24.0	26.6	34.6	38.0	59.3	64.6	71.8	72.8	65.7	51.0	33.8	31.8	47.8	-0.2
Milwaukee	24.6	27.0	34.9	38.9	61.9	66.6	73.9	73.7	66.2	51.5	34.1	32.2	48.8	0.9
District	20.8	23.5	33.2	36.7	62.0	66.8	71.6	71.2	64.2	48.3	31.6	29.3	46.6	-0.3
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														
District	15.2	16.1	29.7	33.5	61.9	66.5	69.9	68.5	61.3	43.6	27.3	25.1	43.2	-0.4
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, 2014-2018

Year	Planted	Harvested	Yield per acre	Production	Value	
					Per bushel	Total
	Acres		Bushels	1,000 bushels	Dollars	1,000 dollars
CORN FOR GRAIN 1/						
2014	4,000,000	3,110,000	156.0	485,160	3.67	1,780,537
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	3.50	1,908,340
SOYBEANS FOR BEANS						
2014	1,800,000	1,790,000	44.0	78,760	10.00	787,600
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	2,200,000	2,160,000	49.0	105,840	8.60	910,224
BARLEY						
2014	26,000	16,000	47.0	752	5.25	3,948
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
OATS						
2014	255,000	140,000	62.0	8,680	3.52	30,554
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	2.70	14,823
WINTER WHEAT						
2014	295,000	250,000	65.0	16,250	4.75	77,188
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

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

BIOTECHNOLOGY SOYBEAN VARIETIES AS A PERCENT OF ALL SOYBEANS PLANTED, WISCONSIN, 2015-2019

Year	Herbicide resistant 1/ Percent
2015	93
2016	94
2017	92
2018	92
2019	91

1/ Does not include conventionally bred herbicide resistant varieties.

BIOTECHNOLOGY CORN VARIETIES AS A PERCENT OF ALL CORN PLANTED, WISCONSIN, 2015-2019

Year	Insect resistant (Bt)	Herbicide resistant 1/ Percent	Stacked gene 2/ Percent	All biotech
2015	3	19	70	92
2016	3	17	70	90
2017	2	14	71	87
2018	3	13	72	88
2019	3	14	72	89

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, 2014-2018

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Dollars per bushel												
CORN												
2014	4.40	4.30	4.47	4.55	4.72	4.56	4.28	3.80	3.53	3.72	3.61	3.69
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	3.35	3.42
SOYBEANS												
2014	12.80	13.20	13.40	14.00	14.70	14.40	13.40	12.50	11.20	10.10	10.10	10.00
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	8.63
OATS												
2014	4.00	4.61	4.61	4.72	4.52	4.52	4.01	3.47	3.61	3.59	3.86	3.23
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	3.26

GRAIN STOCKS: (ON-FARMS AND OFF-FARMS), BY QUARTER, WISCONSIN, 2014-2018

Year	March 1	June 1	September 1	December 1
1,000 bushels				
CORN				
2014	221,390	144,522	55,899	405,323
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
SOYBEANS				
2014	20,022	7,773	2,503	52,773
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

HAY STOCKS: WISCONSIN, 2014-2018

Year	Dec. 1	Percent of	May 1	Percent of
	stocks 1/	production 2/	stocks	production 2/
	1,000 tons	Percent	1,000 tons	Percent
2014	2,900	77	435	12
2015	2,960	61	730	15
2016	2,900	71	810	20
2017	3,200	82	820	21
2018	2,650	75	480	14

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

NEW SEEDINGS OF ALFALFA AND ALFALFA MIXTURES: WISCONSIN, 2014-2018

Year	Acres seeded
	1,000 acres
2014	450
2015	440
2016	320
2017	300
2018	310

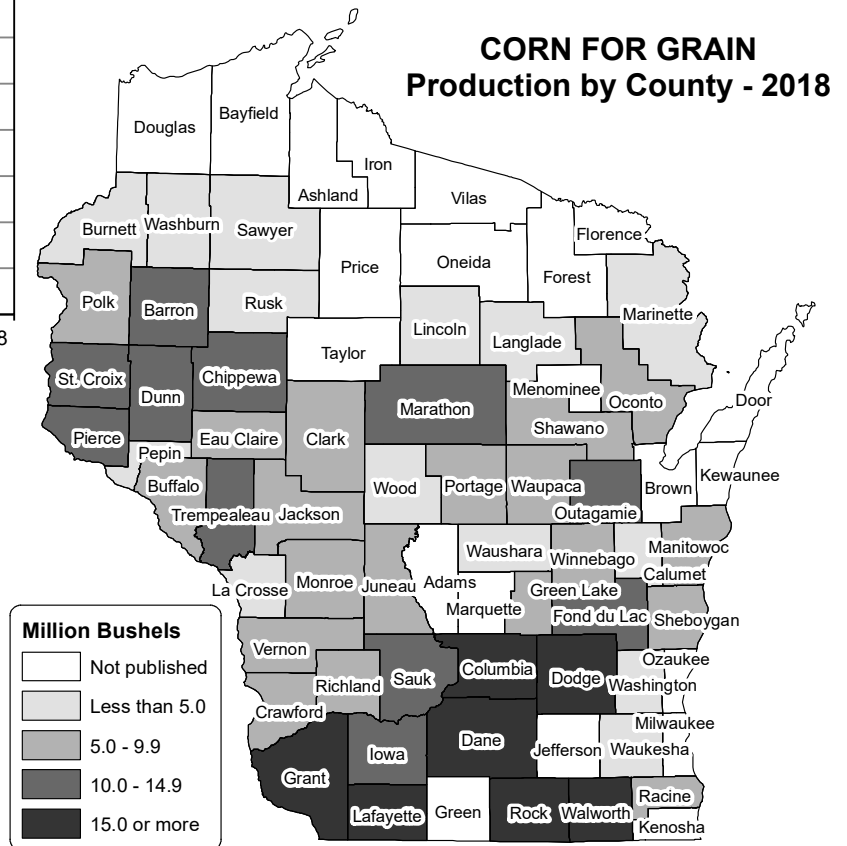
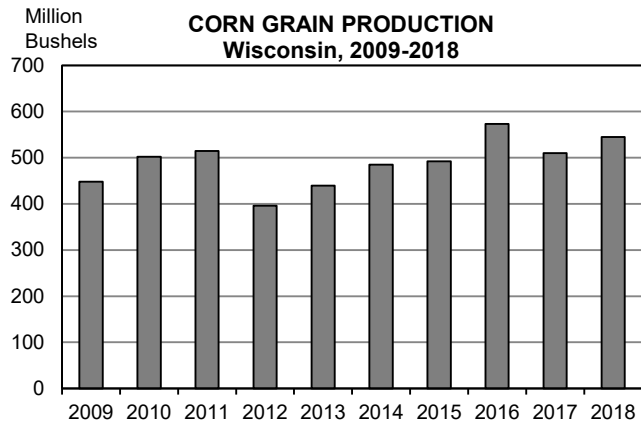
CORN FOR GRAIN: ACREAGE, YIELD AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	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	90,900	62,700	152.4	9,553	86,800	73,400	161.7	11,870
Bayfield	-	-	-	-	-	-	-	-
Burnett	13,200	9,950	148.6	1,479	14,400	10,600	127.9	1,356
Chippewa	88,700	72,800	162.9	11,859	89,900	77,200	146.6	11,319
Douglas	-	-	-	-	-	-	-	-
Polk	63,000	51,100	158.7	8,108	62,300	56,000	164.0	9,182
Rusk	-	-	-	-	21,500	11,300	143.7	1,624
Sawyer	-	-	-	-	6,700	5,000	127.8	639
Washburn	12,200	11,300	152.3	1,721	10,900	8,730	170.6	1,489
Combined counties	33,000	19,150	126.6	2,425	2,500	1,770	123.2	218
Northwest	301,000	227,000	154.8	35,145	295,000	244,000	154.5	37,697
Ashland	3,000	880	82.6	73	-	-	-	-
Clark	75,500	33,600	144.9	4,868	78,800	59,700	112.3	6,707
Iron	-	-	-	-	-	-	-	-
Lincoln	8,000	4,360	128.7	561	7,900	3,990	135.8	542
Marathon	98,300	51,200	157.2	8,051	104,000	71,000	150.4	10,680
Oneida	-	-	-	-	-	-	-	-
Price	-	-	-	-	-	-	-	-
Taylor	44,200	24,600	111.9	2,752	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	6,000	860	121.3	104	43,300	22,310	151.6	3,382
North Central	235,000	115,500	142.1	16,409	234,000	157,000	135.7	21,311
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	-	-	-	-	12,700	7,050	118.2	833
Marinette	-	-	-	-	38,500	36,400	135.2	4,920
Menominee	-	-	-	-	-	-	-	-
Oconto	60,700	33,500	146.5	4,907	62,100	46,800	143.9	6,733
Shawano	77,800	41,500	166.6	6,914	81,000	46,500	153.4	7,134
Combined counties	53,500	32,000	133.8	4,283	700	250	136.0	34
Northeast	192,000	107,000	150.5	16,104	195,000	137,000	143.5	19,654
Buffalo	65,300	54,200	167.8	9,094	65,600	57,100	169.5	9,679
Dunn	102,500	76,600	180.5	13,829	98,800	85,300	173.7	14,817
Eau Claire	44,500	40,800	162.6	6,635	40,300	36,400	159.2	5,794
Jackson	48,700	43,000	166.5	7,158	49,100	44,100	151.1	6,663
La Crosse	33,500	27,600	166.5	4,596	33,600	29,400	170.0	4,999
Monroe	60,100	44,800	161.8	7,247	61,000	47,800	149.6	7,151
Pepin	28,700	21,800	176.0	3,837	29,200	23,300	173.3	4,037
Pierce	86,300	72,000	194.7	14,017	82,700	77,600	189.2	14,681
St Croix	98,200	73,300	174.8	12,813	96,300	87,400	162.9	14,234
Trempealeau	87,200	75,900	162.9	12,365	88,400	79,600	156.7	12,470
West Central	655,000	530,000	172.8	91,591	645,000	568,000	166.4	94,525
Adams	28,800	26,300	114.3	3,005	-	-	-	-
Green Lake	50,900	38,200	182.6	6,977	50,200	45,900	168.2	7,722
Juneau	42,900	37,200	164.5	6,119	41,400	37,900	158.8	6,018
Marquette	36,100	27,400	145.9	3,998	-	-	-	-
Portage	52,200	40,300	162.7	6,556	50,400	35,600	168.1	5,986
Waupaca	58,600	34,600	165.7	5,733	59,100	41,600	156.8	6,522
Waushara	27,800	21,300	161.5	3,439	33,500	29,400	163.4	4,805
Wood	35,700	9,700	138.5	1,343	36,400	20,700	155.7	3,222
Combined counties	-	-	-	-	61,500	52,400	137.8	7,220
Central	333,000	235,000	158.2	37,170	332,500	263,500	157.5	41,495
Brown	-	-	-	-	-	-	-	-
Calumet	45,400	17,700	173.1	3,064	45,900	31,100	158.8	4,939
Door	26,800	15,900	146.9	2,336	-	-	-	-
Fond Du Lac	106,000	67,400	182.7	12,312	108,500	59,000	183.8	10,847
Kewaunee	-	-	-	-	-	-	-	-
Manitowoc	72,500	27,300	177.7	4,852	71,900	36,100	177.8	6,418
Outagamie	80,600	63,900	166.7	10,655	79,400	64,000	174.7	11,180
Sheboygan	47,900	34,900	169.3	5,908	51,000	33,100	156.4	5,176

CORN FOR GRAIN: ACREAGE, YIELD AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	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	49,400	35,600	164.0	5,840	47,200	36,000	160.4	5,774
Combined counties	112,400	42,300	166.6	7,049	141,100	60,200	160.3	9,648
East Central	541,000	305,000	170.5	52,016	545,000	319,500	169.0	53,982
Crawford	35,800	30,200	167.9	5,070	36,900	34,700	166.2	5,768
Grant	162,500	132,800	191.3	25,399	152,000	138,600	202.7	28,088
Iowa	77,000	67,200	169.4	11,382	80,600	67,800	190.4	12,907
Lafayette	138,000	124,700	206.0	25,694	137,500	124,000	197.3	24,464
Richland	43,900	33,900	158.0	5,356	44,500	31,500	164.9	5,193
Sauk	88,000	69,200	169.7	11,746	83,200	71,800	172.8	12,408
Vernon	62,800	48,000	159.6	7,663	64,300	54,600	164.7	8,995
Southwest	608,000	506,000	182.4	92,310	599,000	523,000	187.0	97,823
Columbia	122,500	111,400	193.5	21,557	129,500	123,000	185.7	22,838
Dane	193,500	157,300	191.4	30,115	187,500	159,600	188.9	30,150
Dodge	135,000	120,100	187.7	22,540	146,000	135,700	191.6	26,006
Green	111,000	96,000	192.5	18,477	-	-	-	-
Jefferson	78,000	69,900	173.4	12,118	-	-	-	-
Rock	159,000	145,300	194.8	28,298	152,500	147,400	184.2	27,156
Combined counties	-	-	-	-	198,500	175,300	188.5	33,051
South Central	799,000	700,000	190.2	133,105	814,000	741,000	187.9	139,201
Kenosha	29,800	24,200	168.1	4,067	-	-	-	-
Milwaukee	-	-	-	-	-	-	-	-
Ozaukee	-	-	-	-	-	-	-	-
Racine	33,400	31,300	175.6	5,495	33,700	32,200	172.8	5,565
Walworth	103,000	94,800	175.8	16,665	104,500	99,200	194.1	19,258
Washington	30,600	21,200	177.8	3,769	32,400	24,600	165.9	4,080
Waukesha	21,900	20,900	181.5	3,794	22,400	21,200	182.0	3,859
Combined counties	17,300	12,100	180.2	2,180	47,500	39,800	170.6	6,790
Southeast	236,000	204,500	175.9	35,970	240,500	217,000	182.3	39,552
Wisconsin	3,900,000	2,930,000	174.0	509,820	3,900,000	3,170,000	172.0	545,240

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



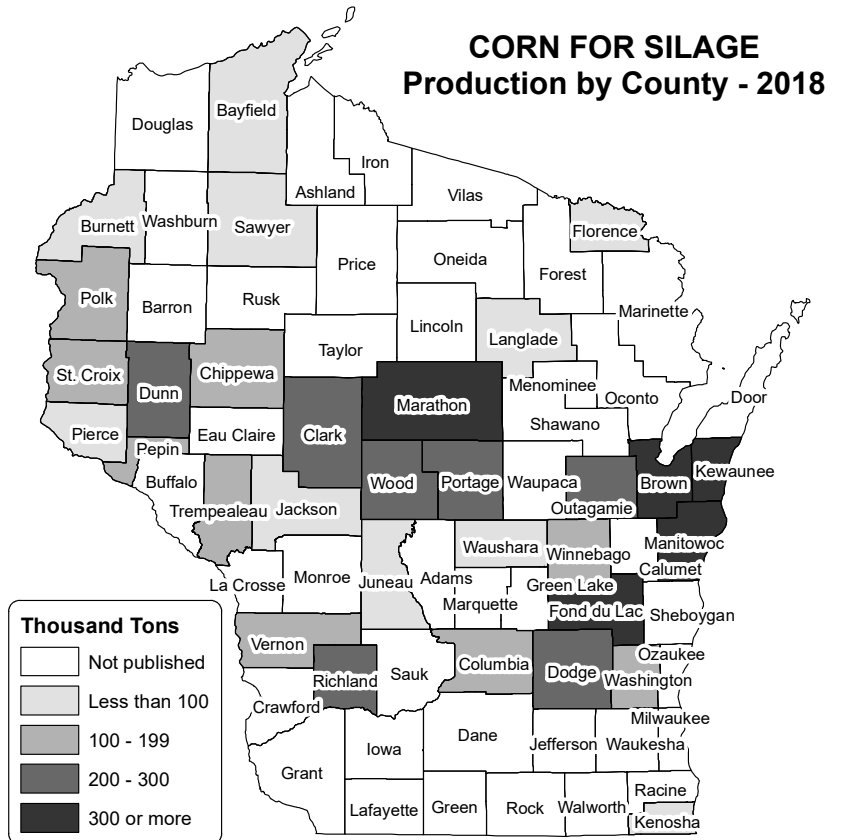
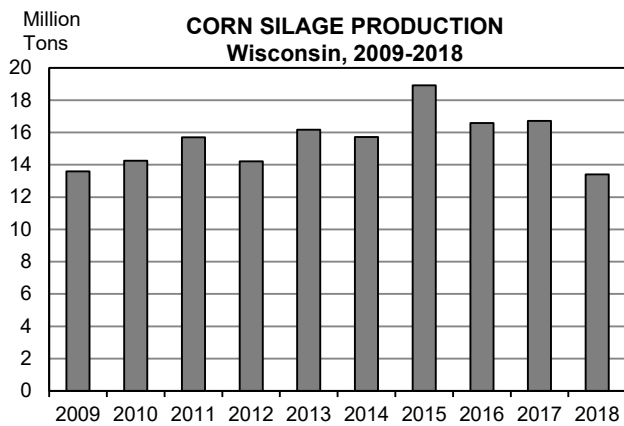
CORN FOR SILAGE: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017			2018		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Barron	—	—	—	—	—	—
Bayfield	—	—	—	470	12.5	5,800
Burnett	3,190	23.0	74,000	3,300	16.0	53,000
Chippewa	14,900	19.0	280,000	10,600	16.5	176,000
Douglas	—	—	—	—	—	—
Polk	11,200	19.5	220,000	5,560	24.0	133,000
Rusk	—	—	—	—	—	—
Sawyer	1,890	17.5	33,000	1,350	19.0	25,800
Washburn	850	22.0	18,700	—	—	—
Combined counties	33,970	18.0	603,300	22,220	20.5	456,400
Northwest	66,000	18.5	1,229,000	43,500	19.5	850,000
Ashland	—	—	—	—	—	—
Clark	36,600	15.0	542,000	14,900	19.5	290,000
Iron	—	—	—	—	—	—
Lincoln	2,960	16.5	48,200	—	—	—
Marathon	42,200	16.5	692,000	31,100	17.5	550,000
Oneida	—	—	—	—	—	—
Price	4,080	14.5	59,000	—	—	—
Taylor	—	—	—	—	—	—
Vilas	—	—	—	—	—	—
Combined counties	17,660	16.5	289,800	23,300	17.0	401,000
North Central	103,500	16.0	1,631,000	69,300	18.0	1,241,000
Florence	—	—	—	130	11.5	1,500
Forest	—	—	—	—	—	—
Langlade	6,150	17.5	109,000	4,160	16.5	69,000
Marinette	7,850	18.0	142,000	—	—	—
Menominee	—	—	—	—	—	—
Oconto	—	—	—	—	—	—
Shawano	34,000	18.0	616,000	—	—	—
Combined counties	22,900	16.5	376,000	47,710	18.5	892,500
Northeast	70,900	17.5	1,243,000	52,000	18.5	963,000
Buffalo	10,500	20.0	211,000	—	—	—
Dunn	—	—	—	11,600	20.0	230,000
Eau Claire	3,440	17.0	58,000	—	—	—
Jackson	5,470	21.0	114,000	3,800	18.5	71,000
La Crosse	—	—	—	—	—	—
Monroe	14,100	20.5	288,000	—	—	—
Pepin	6,860	24.0	165,000	5,400	22.0	119,000
Pierce	—	—	—	4,280	20.5	88,000
St Croix	—	—	—	6,710	17.0	113,000
Trempealeau	—	—	—	7,140	18.5	131,000
Combined counties	79,230	20.5	1,640,000	26,570	19.5	519,000
West Central	119,600	20.5	2,476,000	65,500	19.5	1,271,000
Adams	—	—	—	—	—	—
Green Lake	—	—	—	—	—	—
Juneau	—	—	—	2,430	17.5	42,600
Marquette	—	—	—	—	—	—
Portage	—	—	—	13,500	19.5	264,000
Waupaca	—	—	—	—	—	—
Waushara	—	—	—	3,510	15.0	53,000
Wood	—	—	—	14,400	19.0	271,000
Combined counties	90,900	19.0	1,743,000	28,260	19.0	534,400
Central	90,900	19.0	1,743,000	62,100	19.0	1,165,000
Brown	33,600	18.0	602,000	36,700	18.0	662,000
Calumet	25,400	17.5	442,000	—	—	—
Door	—	—	—	—	—	—
Fond du Lac	—	—	—	48,100	23.0	1,109,000
Kewaunee	28,900	19.5	561,000	34,000	19.0	639,000
Manitowoc	42,800	18.0	779,000	33,900	21.0	711,000
Outagamie	13,800	20.5	285,000	14,600	19.0	276,000
Sheboygan	—	—	—	—	—	—

CORN FOR SILAGE: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017			2018		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Winnebago	-	-	-	10,600	18.0	189,000
Combined counties	73,500	20.5	1,491,000	36,100	20.5	735,000
East Central	218,000	19.0	4,160,000	214,000	20.0	4,321,000
Crawford	-	-	-	-	-	-
Grant	26,800	21.5	574,000	-	-	-
Iowa	-	-	-	-	-	-
Lafayette	12,100	22.5	272,000	-	-	-
Richland	-	-	-	12,300	23.0	281,000
Sauk	16,200	20.0	320,000	-	-	-
Vernon	13,900	18.5	254,000	9,180	19.5	181,000
Combined counties	20,500	18.5	379,000	50,320	22.0	1,105,000
Southwest	89,500	20.0	1,799,000	71,800	22.0	1,567,000
Columbia	10,700	24.0	258,000	5,900	23.0	137,000
Dane	33,700	21.5	723,000	-	-	-
Dodge	-	-	-	9,900	21.0	207,000
Green	13,000	18.5	241,000	-	-	-
Jefferson	7,500	21.0	157,000	-	-	-
Rock	-	-	-	-	-	-
Combined counties	27,600	17.5	484,000	53,400	22.5	1,210,000
South Central	92,500	20.0	1,863,000	69,200	22.5	1,554,000
Kenosha	-	-	-	4,760	19.5	94,000
Milwaukee	-	-	-	-	-	-
Ozaukee	4,630	19.5	90,000	-	-	-
Racine	1,720	17.5	30,000	-	-	-
Walworth	-	-	-	-	-	-
Washington	8,420	19.0	161,000	7,530	22.0	164,000
Waukesha	-	-	-	-	-	-
Combined counties	14,330	20.5	295,000	10,310	20.5	210,000
Southeast	29,100	20.0	576,000	22,600	20.5	468,000
Wisconsin	880,000	19.0	16,720,000	670,000	20.0	13,400,000

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



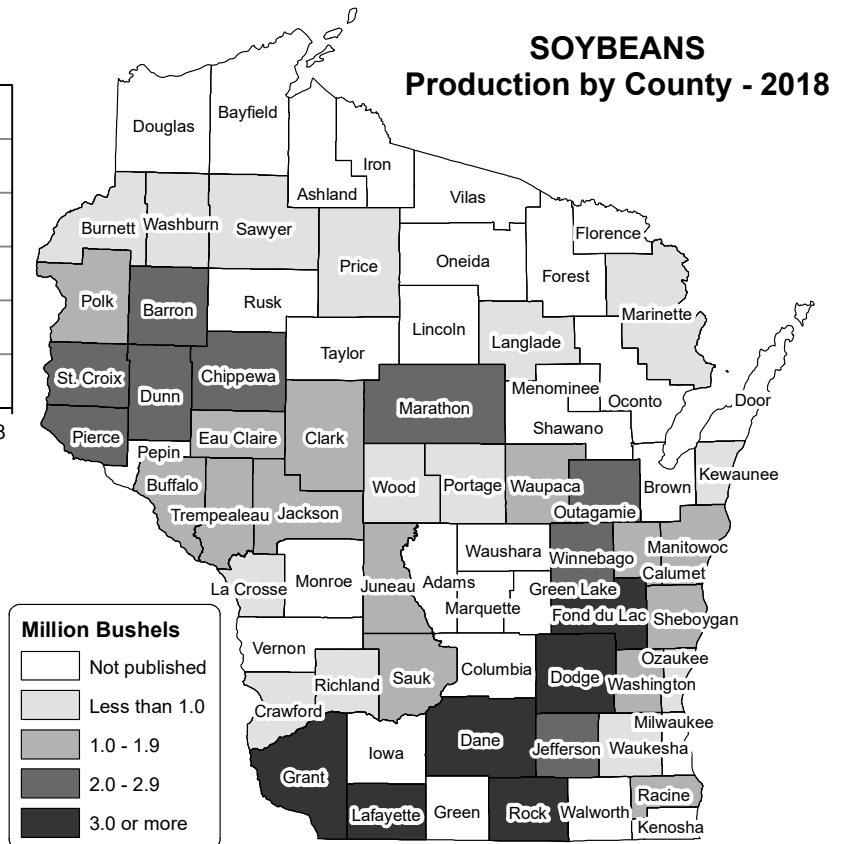
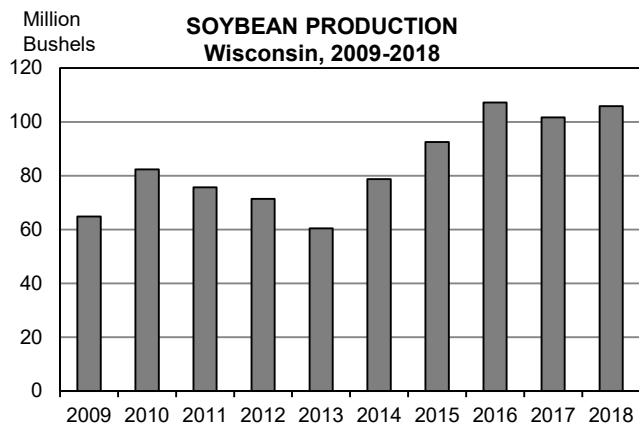
SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	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	53,800	53,600	41.7	2,233	58,500	57,700	43.3	2,501
Bayfield	-	-	-	-	-	-	-	-
Burnett	9,600	9,540	39.6	378	9,800	9,690	34.4	333
Chippewa	59,800	59,400	42.5	2,524	62,300	60,600	41.6	2,521
Douglas	-	-	-	-	-	-	-	-
Polk	37,800	37,600	41.8	1,570	40,700	40,000	38.2	1,526
Rusk	14,800	14,700	39.7	583	-	-	-	-
Sawyer	3,000	2,980	32.2	96	3,200	3,150	31.1	98
Washburn	7,500	7,440	39.2	292	8,000	7,890	47.8	377
Combined counties	1,700	1,640	28.7	47	19,500	18,870	46.7	881
Northwest	188,000	186,900	41.3	7,723	202,000	197,900	41.6	8,237
Ashland	-	-	-	-	-	-	-	-
Clark	41,300	40,900	44.8	1,832	46,600	46,000	39.7	1,828
Iron	-	-	-	-	-	-	-	-
Lincoln	-	-	-	-	-	-	-	-
Marathon	55,000	54,400	47.4	2,580	61,600	60,700	40.6	2,462
Oneida	-	-	-	-	-	-	-	-
Price	-	-	-	-	1,000	970	39.9	39
Taylor	30,200	30,100	36.8	1,107	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	8,000	7,600	33.9	258	35,300	34,730	38.3	1,331
North Central	134,500	133,000	43.4	5,777	144,500	142,400	39.7	5,660
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	-	-	-	-	7,900	7,630	35.6	272
Marinette	8,500	8,390	40.6	341	10,300	10,100	47.2	477
Menominee	-	-	-	-	-	-	-	-
Oconto	26,000	26,000	42.8	1,112	-	-	-	-
Shawano	31,800	31,700	44.5	1,412	-	-	-	-
Combined counties	7,700	7,510	36.9	277	67,300	66,370	47.0	3,119
Northeast	74,000	73,600	42.7	3,142	85,500	84,100	46.0	3,868
Buffalo	33,300	33,200	47.6	1,581	34,100	33,500	45.2	1,514
Dunn	67,600	67,500	45.8	3,092	68,600	67,700	43.5	2,947
Eau Claire	28,300	28,200	41.7	1,177	30,300	29,900	41.8	1,249
Jackson	31,000	30,900	48.0	1,484	30,000	29,600	44.0	1,301
La Crosse	-	-	-	-	17,300	16,800	44.4	746
Monroe	26,800	26,600	41.4	1,102	-	-	-	-
Pepin	-	-	-	-	-	-	-	-
Pierce	43,800	43,800	50.4	2,209	47,200	46,400	49.6	2,303
St. Croix	62,500	62,400	46.8	2,918	61,200	60,400	43.1	2,606
Trempealeau	43,200	43,100	46.9	2,021	42,100	41,500	40.4	1,678
Combined counties	33,500	33,300	46.7	1,556	46,200	45,200	48.4	2,188
West Central	370,000	369,000	46.4	17,140	377,000	371,000	44.6	16,532
Adams	11,200	11,100	43.4	482	-	-	-	-
Green Lake	-	-	-	-	-	-	-	-
Juneau	-	-	-	-	29,300	28,500	39.1	1,115
Marquette	11,100	11,000	38.9	428	-	-	-	-
Portage	19,400	19,300	44.6	861	19,900	19,600	41.5	813
Waupaca	30,000	29,800	46.8	1,396	33,100	32,600	45.6	1,485
Waushara	15,400	15,300	42.4	648	-	-	-	-
Wood	20,700	20,100	43.4	872	22,800	22,500	38.6	869
Combined counties	51,200	50,900	48.0	2,443	70,900	69,000	45.0	3,102
Central	159,000	157,500	45.3	7,130	176,000	172,200	42.9	7,384
Brown	-	-	-	-	-	-	-	-
Calumet	29,900	29,800	46.2	1,378	27,500	26,800	50.9	1,363
Door	-	-	-	-	-	-	-	-
Fond Du Lac	55,400	55,000	50.4	2,772	58,600	57,700	52.5	3,030
Kewaunee	15,000	15,000	49.3	739	15,600	15,400	51.8	798
Manitowoc	30,300	29,800	49.2	1,465	32,300	31,900	52.7	1,680
Outagamie	58,400	58,200	46.8	2,725	60,300	59,500	49.0	2,913
Sheboygan	34,400	34,300	51.5	1,765	34,800	34,400	47.6	1,638

SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels	1,000 bushels	Acres		Bushels	1,000 bushels
Winnebago	43,200	43,100	47.8	2,061	41,700	41,200	51.6	2,126
Combined counties	43,400	43,300	47.4	2,054	42,200	41,600	46.9	1,950
East Central	310,000	308,500	48.5	14,959	313,000	308,500	50.2	15,498
Crawford	22,800	22,600	44.6	1,008	21,000	20,400	46.4	947
Grant	73,500	73,400	56.2	4,126	79,600	78,000	64.6	5,039
Iowa	49,100	49,000	52.7	2,584	-	-	-	-
Lafayette	59,700	59,300	57.0	3,381	62,500	61,400	64.0	3,927
Richland	18,300	18,200	44.0	801	18,000	17,200	41.2	708
Sauk	36,400	36,300	45.0	1,635	39,500	37,600	49.7	1,870
Vernon	34,200	34,200	44.8	1,533	-	-	-	-
Combined counties	-	-	-	-	77,400	75,900	50.7	3,847
Southwest	294,000	293,000	51.4	15,068	298,000	290,500	56.2	16,338
Columbia	51,300	51,200	52.3	2,678	-	-	-	-
Dane	86,900	86,800	52.2	4,528	87,600	85,400	56.3	4,807
Dodge	77,900	77,600	53.0	4,116	82,700	81,400	51.3	4,178
Green	61,300	61,200	49.8	3,046	-	-	-	-
Jefferson	56,100	55,900	46.1	2,575	51,200	50,200	52.2	2,619
Rock	103,000	102,800	50.6	5,205	95,500	94,200	55.5	5,226
Combined counties	-	-	-	-	112,000	110,300	58.9	6,502
South Central	436,500	435,500	50.9	22,148	429,000	421,500	55.4	23,332
Kenosha	25,600	25,000	45.9	1,148	-	-	-	-
Milwaukee	2,000	2,000	35.5	71	-	-	-	-
Ozaukee	12,200	12,200	52.4	639	13,100	12,900	50.1	646
Racine	38,700	38,600	43.3	1,672	33,600	32,800	52.0	1,706
Walworth	60,900	60,800	48.8	2,965	-	-	-	-
Washington	23,400	23,300	48.1	1,120	23,800	23,300	46.7	1,087
Waukesha	21,200	21,100	44.9	948	18,400	18,100	48.0	869
Combined counties	-	-	-	-	86,100	84,800	55.2	4,683
Southeast	184,000	183,000	46.8	8,563	175,000	171,900	52.3	8,991
Wisconsin	2,150,000	2,140,000	47.5	101,650	2,200,000	2,160,000	49.0	105,840

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



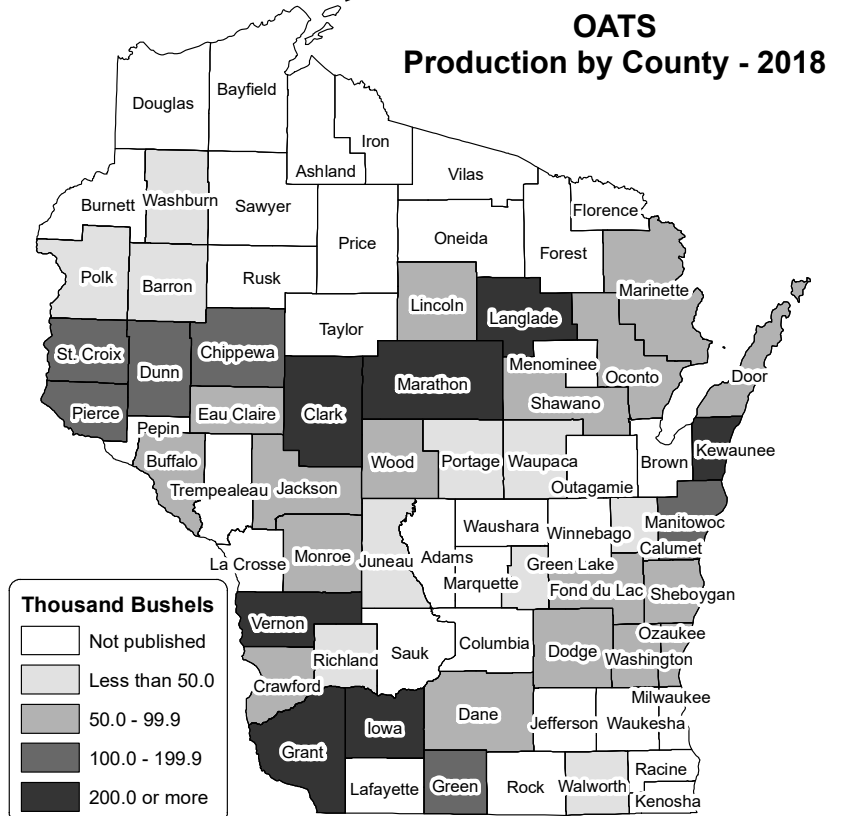
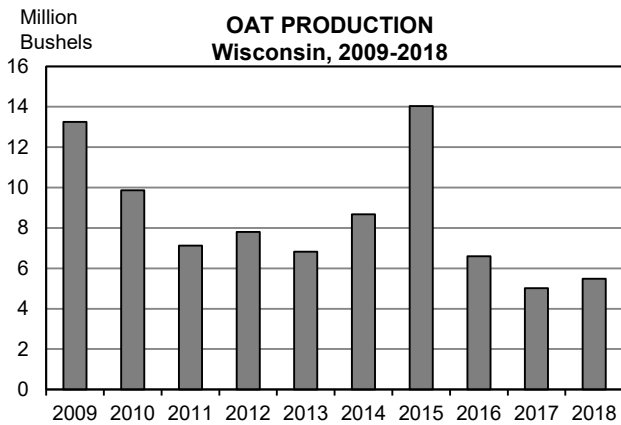
OATS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Barron	2,700	890	47.8	42,500	2,800	750	51.6	38,700
Bayfield	800	690	49.6	34,200	-	-	-	-
Burnett	-	-	-	-	-	-	-	-
Chippewa	3,500	1,800	55.3	99,500	3,400	1,750	57.1	100,000
Douglas	-	-	-	-	-	-	-	-
Polk	1,800	710	68.6	48,700	1,800	710	53.4	37,900
Rusk	700	250	37.6	9,400	-	-	-	-
Sawyer	-	-	-	-	-	-	-	-
Washburn	-	-	-	-	800	100	49.0	4,900
Combined counties	2,300	1,560	53.7	83,700	3,400	1,640	43.6	71,500
Northwest	11,800	5,900	53.9	318,000	12,200	4,950	51.1	253,000
Ashland	-	-	-	-	-	-	-	-
Clark	5,700	3,970	42.1	167,000	5,300	3,930	54.2	213,000
Iron	-	-	-	-	-	-	-	-
Lincoln	-	-	-	-	1,500	1,210	71.3	86,300
Marathon	-	-	-	-	8,900	3,910	63.2	247,000
Oneida	-	-	-	-	-	-	-	-
Price	-	-	-	-	-	-	-	-
Taylor	-	-	-	-	-	-	-	-
Vilas	-	-	-	-	-	-	-	-
Combined counties	14,600	8,830	55.0	486,000	7,000	4,850	50.9	246,700
North Central	20,300	12,800	51.0	653,000	22,700	13,900	57.1	793,000
Florence	-	-	-	-	-	-	-	-
Forest	-	-	-	-	-	-	-	-
Langlade	10,100	9,060	74.7	677,000	10,600	9,310	83.1	774,000
Marinette	1,200	720	56.8	40,900	1,700	1,010	64.0	64,600
Menominee	-	-	-	-	-	-	-	-
Oconto	1,200	410	53.7	22,000	2,100	1,010	60.2	60,800
Shawano	2,800	1,960	61.2	120,000	3,400	1,420	55.1	78,200
Combined counties	600	550	69.3	38,100	600	450	43.1	19,400
Northeast	15,900	12,700	70.7	898,000	18,400	13,200	75.5	997,000
Buffalo	-	-	-	-	4,600	1,270	40.0	50,800
Dunn	5,000	1,710	57.3	98,000	4,200	2,140	55.1	118,000
Eau Claire	2,100	1,260	49.0	61,700	2,800	1,390	56.5	78,500
Jackson	2,000	1,400	42.5	59,500	3,100	1,330	54.7	72,700
La Crosse	-	-	-	-	-	-	-	-
Monroe	2,500	1,660	48.3	80,200	3,200	1,550	54.6	84,700
Pepin	-	-	-	-	-	-	-	-
Pierce	3,700	2,320	50.9	118,000	4,500	2,490	58.6	146,000
St Croix	2,900	1,830	59.6	109,000	3,600	2,570	59.9	154,000
Trempealeau	3,600	1,070	48.7	52,100	-	-	-	-
Combined counties	7,100	2,050	53.4	109,500	7,500	2,160	46.9	101,300
West Central	28,900	13,300	51.7	688,000	33,500	14,900	54.1	806,000
Adams	-	-	-	-	-	-	-	-
Green Lake	-	-	-	-	800	590	55.3	32,600
Juneau	1,400	300	53.3	16,000	2,300	250	43.6	10,900
Marquette	-	-	-	-	-	-	-	-
Portage	3,700	900	44.3	39,900	5,800	570	46.8	26,700
Waupaca	1,700	380	57.1	21,700	2,500	830	52.0	43,200
Waushara	600	130	56.9	7,400	-	-	-	-
Wood	2,400	1,200	42.1	50,500	2,500	1,690	50.1	84,600
Combined counties	2,900	490	45.9	22,500	2,700	420	42.9	18,000
Central	12,700	3,400	46.5	158,000	16,600	4,350	49.7	216,000
Brown	3,800	1,700	50.0	85,000	-	-	-	-
Calumet	1,900	750	60.5	45,400	1,400	560	69.8	39,100
Door	3,800	2,490	70.3	175,000	3,900	1,450	55.4	80,300
Fond Du Lac	-	-	-	-	3,200	1,260	67.9	85,500
Kewaunee	6,200	1,160	74.7	86,700	5,600	3,390	69.3	235,000
Manitowoc	7,000	3,130	58.1	182,000	5,800	2,050	71.2	146,000
Outagamie	-	-	-	-	-	-	-	-
Sheboygan	2,500	810	74.7	60,500	2,000	930	77.6	72,200

OATS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Winnebago	700	120	57.5	6,900	-	-	-	-
Combined counties	5,600	1,940	53.4	103,500	6,300	3,460	58.6	202,900
East Central	31,500	12,100	61.6	745,000	28,200	13,100	65.7	861,000
Crawford	-	-	-	-	3,600	1,140	52.7	60,100
Grant	11,800	5,200	67.1	349,000	14,100	4,020	62.2	250,000
Iowa	5,800	2,960	67.9	201,000	5,500	3,500	65.7	230,000
Lafayette	-	-	-	-	-	-	-	-
Richland	2,700	620	45.2	28,000	3,500	230	52.2	12,000
Sauk	4,100	1,190	60.3	71,800	-	-	-	-
Vernon	5,100	1,470	53.5	78,700	6,200	4,110	65.0	267,000
Combined counties	10,400	4,160	69.6	289,500	11,800	4,000	60.5	241,900
Southwest	39,900	15,600	65.3	1,018,000	44,700	17,000	62.4	1,061,000
Columbia	1,000	340	60.9	20,700	-	-	-	-
Dane	2,500	850	60.2	51,200	3,000	1,060	51.4	54,500
Dodge	3,200	1,630	60.2	98,200	4,200	1,500	60.1	90,100
Green	-	-	-	-	4,700	1,760	61.4	108,000
Jefferson	800	160	48.8	7,800	-	-	-	-
Rock	-	-	-	-	-	-	-	-
Combined counties	6,700	3,620	60.5	219,100	6,500	1,110	61.6	68,400
South Central	14,200	6,600	60.2	397,000	18,400	5,430	59.1	321,000
Kenosha	-	-	-	-	-	-	-	-
Milwaukee	-	-	-	-	-	-	-	-
Ozaukee	1,000	770	55.2	42,500	1,100	810	62.8	50,900
Racine	-	-	-	-	-	-	-	-
Walworth	-	-	-	-	800	150	74.7	11,200
Washington	2,100	1,420	49.9	70,900	2,000	1,440	63.6	91,600
Waukesha	-	-	-	-	-	-	-	-
Combined counties	1,700	410	64.9	26,600	1,400	770	36.8	28,300
Southeast	4,800	2,600	53.8	140,000	5,300	3,170	57.4	182,000
Wisconsin	180,000	85,000	59.0	5,015,000	200,000	90,000	61.0	5,490,000

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



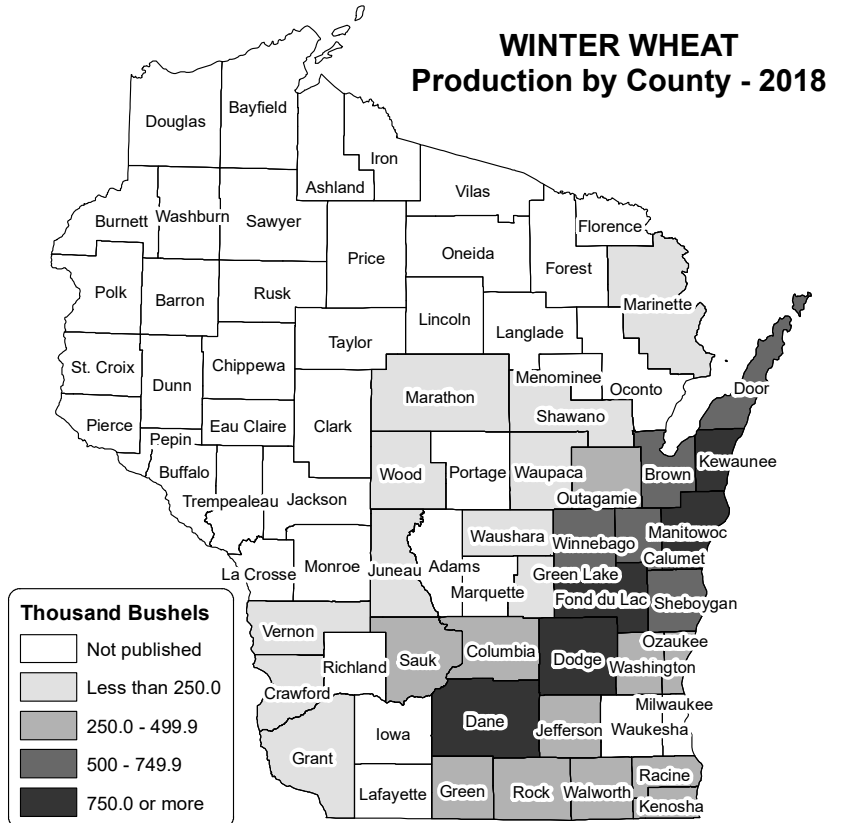
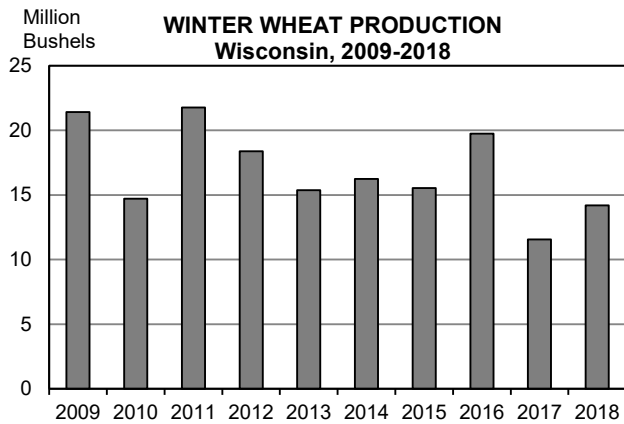
WINTER WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Barron	1,600	1,490	66.1	98,500	—	—	—	—
Bayfield	—	—	—	—	—	—	—	—
Burnett	—	—	—	—	—	—	—	—
Chippewa	900	810	54.2	43,900	—	—	—	—
Douglas	—	—	—	—	—	—	—	—
Polk	—	—	—	—	—	—	—	—
Rusk	—	—	—	—	—	—	—	—
Sawyer	—	—	—	—	—	—	—	—
Washburn	—	—	—	—	—	—	—	—
Combined counties	600	480	63.8	30,600	3,400	3,000	53.7	161,000
Northwest	3,100	2,780	62.2	173,000	3,400	3,000	53.7	161,000
Ashland	—	—	—	—	—	—	—	—
Clark	1,100	840	55.7	46,800	—	—	—	—
Iron	—	—	—	—	—	—	—	—
Lincoln	—	—	—	—	—	—	—	—
Marathon	—	—	—	—	2,200	1,700	60.0	102,000
Oneida	—	—	—	—	—	—	—	—
Price	—	—	—	—	—	—	—	—
Taylor	—	—	—	—	—	—	—	—
Vilas	—	—	—	—	—	—	—	—
Combined counties	2,800	1,870	50.9	95,200	2,300	2,070	56.5	117,000
North Central	3,900	2,710	52.4	142,000	4,500	3,770	58.1	219,000
Florence	—	—	—	—	—	—	—	—
Forest	—	—	—	—	—	—	—	—
Langlade	—	—	—	—	—	—	—	—
Marinette	2,600	2,360	57.2	135,000	2,300	2,080	55.8	116,000
Menominee	—	—	—	—	—	—	—	—
Oconto	—	—	—	—	—	—	—	—
Shawano	3,700	3,180	63.8	203,000	3,800	3,630	62.5	227,000
Combined counties	5,300	4,860	58.2	283,000	6,700	6,390	60.7	388,000
Northeast	11,600	10,400	59.7	621,000	12,800	12,100	60.4	731,000
Buffalo	—	—	—	—	—	—	—	—
Dunn	—	—	—	—	—	—	—	—
Eau Claire	—	—	—	—	—	—	—	—
Jackson	—	—	—	—	—	—	—	—
La Crosse	—	—	—	—	—	—	—	—
Monroe	—	—	—	—	—	—	—	—
Pepin	—	—	—	—	—	—	—	—
Pierce	—	—	—	—	—	—	—	—
St Croix	—	—	—	—	—	—	—	—
Trempealeau	—	—	—	—	—	—	—	—
Combined counties	4,000	2,170	59.4	129,000	8,100	2,340	58.5	137,000
West Central	4,000	2,170	59.4	129,000	8,100	2,340	58.5	137,000
Adams	500	410	69.5	28,500	—	—	—	—
Green Lake	3,600	3,320	72.6	241,000	3,600	3,280	67.1	220,000
Juneau	1,000	620	66.5	41,200	1,100	830	37.8	31,400
Marquette	900	840	57.9	48,600	—	—	—	—
Portage	20,100	100	42.0	4,200	—	—	—	—
Waupaca	2,200	2,050	70.7	145,000	2,700	2,500	60.0	150,000
Waushara	1,300	1,200	46.6	55,900	800	740	53.9	39,900
Wood	700	600	74.3	44,600	1,500	1,150	57.0	65,500
Combined counties	—	—	—	—	20,800	1,290	42.8	55,200
Central	30,300	9,140	66.6	609,000	30,500	9,790	57.4	562,000
Brown	8,300	7,530	59.0	444,000	9,900	8,920	64.3	574,000
Calumet	6,100	5,480	65.3	358,000	9,200	8,950	78.8	705,000
Door	8,300	7,630	59.1	451,000	10,400	10,000	60.5	605,000
Fond Du Lac	10,700	9,660	69.2	668,000	12,800	12,100	77.5	938,000
Kewaunee	10,100	9,360	63.9	598,000	11,400	11,100	72.5	805,000
Manitowoc	13,800	12,800	61.5	787,000	15,300	14,400	77.0	1,109,000
Outagamie	4,700	4,330	71.8	311,000	6,500	5,210	71.0	370,000
Sheboygan	7,900	6,330	63.8	404,000	9,400	8,760	76.8	673,000

WINTER WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017				2018			
	Planted	Harvested	Yield per acre	Production	Planted	Harvested	Yield per acre	Production
	Acres		Bushels		Acres		Bushels	
Winnebago	7,100	6,280	63.4	398,000	8,800	8,360	73.3	613,000
East Central	77,000	69,400	63.7	4,419,000	93,700	87,800	72.8	6,392,000
Crawford	—	—	—	—	900	820	59.4	48,700
Grant	2,500	2,000	60.5	121,000	2,700	2,260	76.1	172,000
Iowa	1,700	1,470	78.9	116,000	—	—	—	—
Lafayette	—	—	—	—	—	—	—	—
Richland	1,100	1,020	60.6	61,800	—	—	—	—
Sauk	4,700	4,360	75.5	329,000	4,400	4,290	64.8	278,000
Vernon	1,000	860	51.9	44,600	1,000	890	74.9	66,700
Combined counties	2,400	2,190	72.4	158,600	5,900	5,340	69.4	370,600
Southwest	13,400	11,900	69.8	831,000	14,900	13,600	68.8	936,000
Columbia	6,400	5,900	73.4	433,000	6,300	5,830	64.2	374,000
Dane	10,000	9,230	83.2	768,000	11,600	10,300	74.3	765,000
Dodge	10,200	9,230	70.9	654,000	12,100	11,300	74.5	842,000
Green	4,900	4,550	75.4	343,000	5,500	5,170	73.7	381,000
Jefferson	4,700	4,360	70.0	305,000	5,500	5,000	79.4	397,000
Rock	5,300	4,930	80.7	398,000	5,500	5,300	80.9	429,000
South Central	41,500	38,200	75.9	2,901,000	46,500	42,900	74.3	3,188,000
Kenosha	4,100	3,800	77.1	293,000	3,700	3,610	85.3	308,000
Milwaukee	—	—	—	—	—	—	—	—
Ozaukee	3,600	3,350	60.6	203,000	4,200	4,020	80.3	323,000
Racine	6,200	5,700	78.2	446,000	5,800	5,640	72.7	410,000
Walworth	4,400	4,000	78.8	315,000	4,500	4,280	73.6	315,000
Washington	4,500	4,200	69.5	292,000	4,600	4,480	68.5	307,000
Waukesha	—	—	—	—	—	—	—	—
Combined counties	2,400	2,250	82.7	186,000	2,800	2,670	79.0	211,000
Southeast	25,200	23,300	74.5	1,735,000	25,600	24,700	75.9	1,874,000
Wisconsin	210,000	170,000	68.0	11,560,000	240,000	200,000	71.0	14,200,000

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



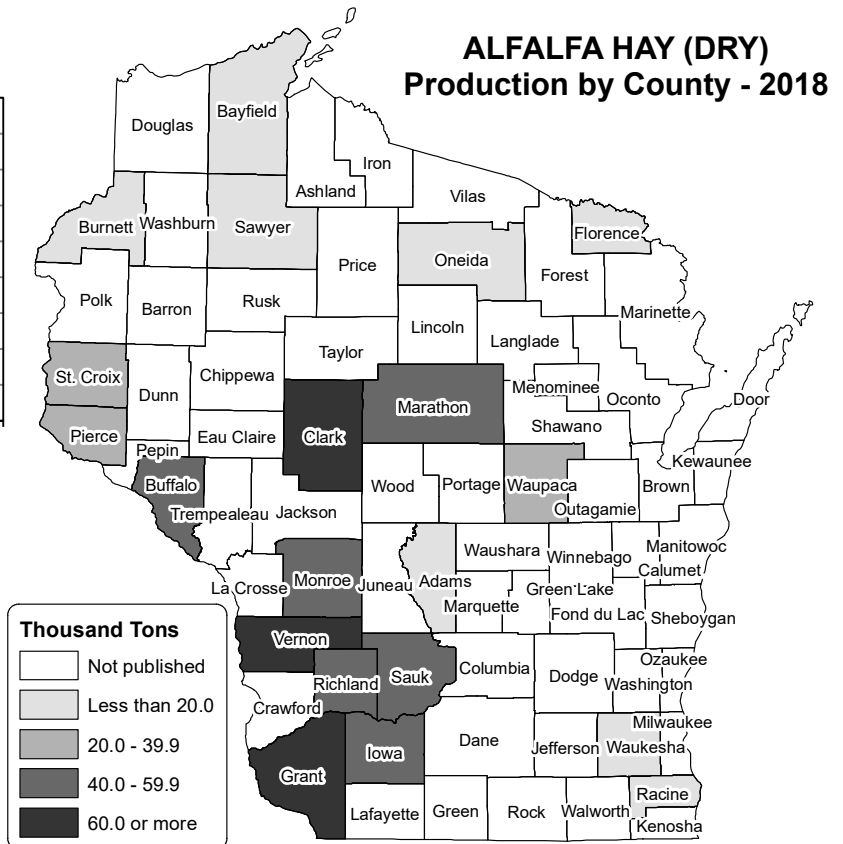
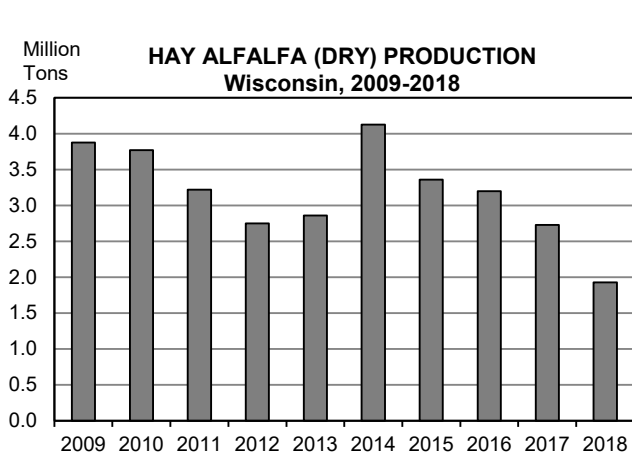
ALFALFA HAY (DRY): ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017			2018		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Barron	17,500	3.15	54,800	-	-	-
Bayfield	5,100	2.35	12,100	4,210	1.75	7,400
Burnett	7,190	2.00	14,300	7,340	1.70	12,300
Chippewa	19,400	2.90	56,400	-	-	-
Douglas	3,200	2.90	9,200	-	-	-
Polk	14,600	2.70	39,300	-	-	-
Rusk	-	-	-	-	-	-
Sawyer	2,620	2.20	5,700	2,050	2.65	5,400
Washburn	-	-	-	-	-	-
Combined counties	13,190	2.55	33,600	63,100	2.30	146,400
Northwest	82,800	2.70	225,400	76,700	2.25	171,500
Ashland	2,800	1.50	4,130	-	-	-
Clark	27,500	2.40	66,400	26,700	2.35	62,500
Iron	-	-	-	-	-	-
Lincoln	5,510	1.70	9,500	-	-	-
Marathon	22,400	3.00	67,400	18,300	2.55	46,900
Oneida	1,450	2.05	2,940	940	1.15	1,080
Price	-	-	-	-	-	-
Taylor	-	-	-	-	-	-
Vilas	-	-	-	-	-	-
Combined counties	16,340	2.55	41,730	18,060	1.20	21,820
North Central	76,000	2.55	192,100	64,000	2.05	132,300
Florence	2,270	1.45	3,270	2,000	1.45	2,890
Forest	-	-	-	-	-	-
Langlade	6,100	2.65	16,300	-	-	-
Marinette	-	-	-	-	-	-
Menominee	-	-	-	-	-	-
Oconto	11,100	2.65	29,200	-	-	-
Shawano	21,700	2.55	55,200	-	-	-
Combined counties	10,730	2.20	23,830	51,700	2.10	107,310
Northeast	51,900	2.45	127,800	53,700	2.05	110,200
Buffalo	16,800	3.55	59,700	19,200	2.50	47,800
Dunn	18,000	3.60	64,800	-	-	-
Eau Claire	13,700	2.75	37,500	-	-	-
Jackson	17,000	2.80	48,000	-	-	-
La Crosse	-	-	-	-	-	-
Monroe	24,100	2.70	65,200	23,600	2.15	51,000
Pepin	-	-	-	-	-	-
Pierce	15,700	4.20	66,000	15,100	2.60	39,200
St. Croix	18,100	3.10	56,300	17,700	2.05	36,400
Trempealeau	17,100	3.30	56,500	-	-	-
Combined counties	16,800	2.85	47,600	76,300	2.25	169,900
West Central	157,300	3.20	501,600	151,900	2.25	344,300
Adams	5,000	2.70	13,400	5,020	2.05	10,200
Green Lake	-	-	-	-	-	-
Juneau	-	-	-	-	-	-
Marquette	-	-	-	-	-	-
Portage	17,800	2.65	47,500	-	-	-
Waupaca	16,800	3.55	59,300	13,400	1.70	22,900
Waushara	7,860	2.65	21,000	-	-	-
Wood	-	-	-	-	-	-
Combined counties	38,340	2.90	111,100	54,680	2.00	108,200
Central	85,800	2.95	252,300	73,100	1.95	141,300
Brown	-	-	-	-	-	-
Calumet	-	-	-	-	-	-
Door	11,900	2.75	32,500	-	-	-
Fond Du Lac	-	-	-	-	-	-
Kewaunee	-	-	-	-	-	-
Manitowoc	32,900	2.60	85,600	-	-	-
Outagamie	-	-	-	-	-	-
Sheboygan	15,900	3.40	53,900	-	-	-

ALFALFA HAY (DRY): ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017			2018		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Winnebago	-	-	-	-	-	-
Combined counties	75,000	3.00	226,300	121,700	2.60	319,000
East Central	135,700	2.95	398,300	121,700	2.60	319,000
Crawford	14,600	3.10	45,500	-	-	-
Grant	37,500	3.55	133,000	33,600	2.75	92,500
Iowa	20,200	4.05	81,600	18,900	2.70	51,500
Lafayette	-	-	-	-	-	-
Richland	-	-	-	19,900	2.20	44,200
Sauk	26,500	3.00	79,200	24,400	2.25	55,300
Vernon	34,000	2.90	97,800	37,500	2.05	76,100
Combined counties	39,400	3.30	130,700	31,600	2.95	93,900
Southwest	172,200	3.30	567,800	165,900	2.50	413,500
Columbia	17,400	3.00	52,300	-	-	-
Dane	24,300	3.20	77,400	-	-	-
Dodge	15,400	3.35	51,800	-	-	-
Green	28,400	3.30	93,700	-	-	-
Jefferson	-	-	-	-	-	-
Rock	-	-	-	-	-	-
Combined counties	26,800	3.45	91,900	79,300	2.70	215,700
South Central	112,300	3.25	367,100	79,300	2.70	215,700
Kenosha	-	-	-	-	-	-
Milwaukee	-	-	-	-	-	-
Ozaukee	5,020	3.25	16,200	-	-	-
Racine	6,260	2.75	17,100	5,490	2.05	11,200
Walworth	-	-	-	-	-	-
Washington	9,320	2.85	26,400	-	-	-
Waukesha	5,160	2.60	13,300	5,340	2.40	12,700
Combined counties	10,240	2.40	24,600	22,870	2.40	55,300
Southeast	36,000	2.70	97,600	33,700	2.35	79,200
Wisconsin	910,000	3.00	2,730,000	820,000	2.35	1,927,000

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



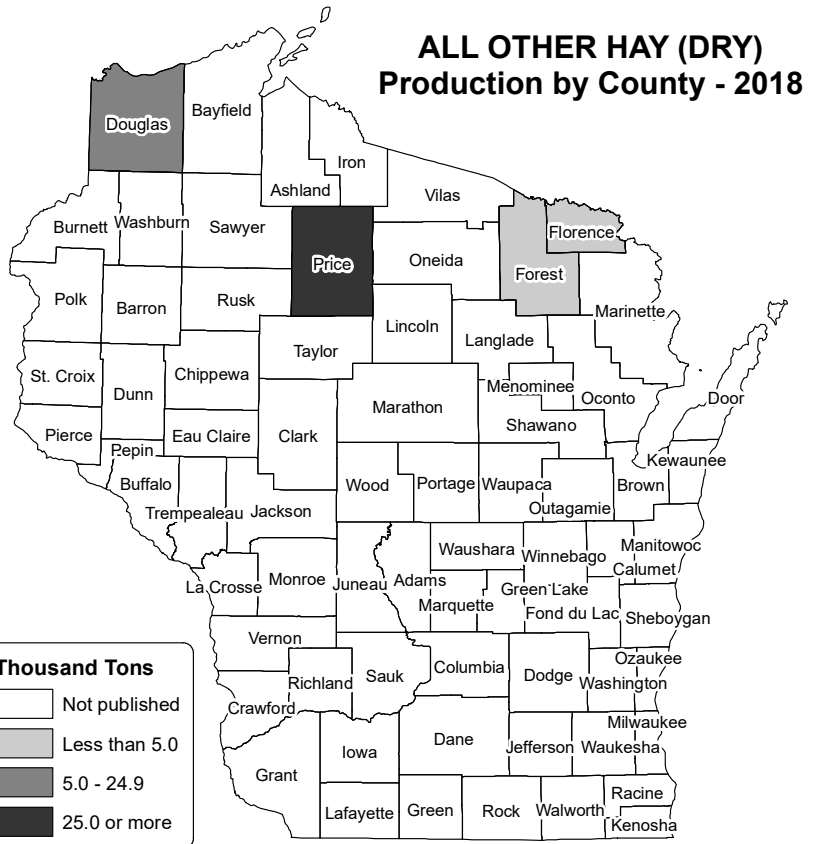
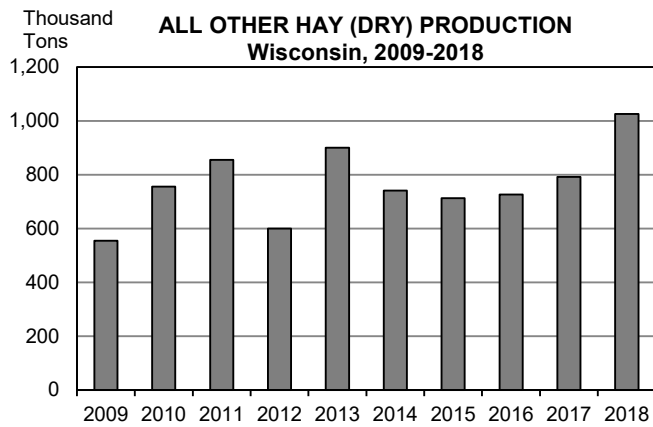
OTHER HAY (DRY): ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017			2018		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Barron	—	—	—	—	—	—
Bayfield	14,500	1.85	26,800	—	—	—
Burnett	3,150	1.60	5,100	—	—	—
Chippewa	—	—	—	—	—	—
Douglas	8,730	1.80	15,500	15,500	1.45	22,200
Polk	—	—	—	—	—	—
Rusk	14,500	1.95	28,600	—	—	—
Sawyer	4,200	1.85	7,800	—	—	—
Washburn	3,670	1.75	6,500	—	—	—
Combined counties	19,750	2.05	40,300	90,500	1.85	168,000
Northwest	68,500	1.90	130,600	106,000	1.80	190,200
Ashland	9,510	1.75	16,700	—	—	—
Clark	—	—	—	—	—	—
Iron	1,740	1.75	3,070	—	—	—
Lincoln	6,770	1.90	13,000	—	—	—
Marathon	—	—	—	—	—	—
Oneida	3,340	1.45	4,830	—	—	—
Price	14,000	1.75	24,800	21,500	1.70	36,100
Taylor	—	—	—	—	—	—
Vilas	540	1.30	700	—	—	—
Combined counties	48,500	2.45	119,900	117,800	1.85	218,900
North Central	84,400	2.15	183,000	139,300	1.85	255,000
Florence	2,510	1.25	3,100	3,350	0.90	2,990
Forest	3,270	1.60	5,300	5,260	0.85	4,360
Langlade	—	—	—	—	—	—
Marinette	—	—	—	—	—	—
Menominee	—	—	—	—	—	—
Oconto	—	—	—	—	—	—
Shawano	—	—	—	—	—	—
Combined counties	16,120	2.15	34,700	27,090	1.30	34,650
Northeast	21,900	1.95	43,100	35,700	1.20	42,000
Buffalo	—	—	—	—	—	—
Dunn	—	—	—	—	—	—
Eau Claire	—	—	—	—	—	—
Jackson	—	—	—	—	—	—
La Crosse	—	—	—	—	—	—
Monroe	—	—	—	—	—	—
Pepin	—	—	—	—	—	—
Pierce	—	—	—	—	—	—
St. Croix	—	—	—	—	—	—
Trempealeau	—	—	—	—	—	—
Combined counties	40,200	2.30	92,600	47,100	2.15	101,300
West Central	40,200	2.30	92,600	47,100	2.15	101,300
Adams	790	2.15	1,700	—	—	—
Green Lake	—	—	—	—	—	—
Juneau	—	—	—	—	—	—
Marquette	—	—	—	—	—	—
Portage	—	—	—	—	—	—
Waupaca	—	—	—	—	—	—
Waushara	—	—	—	—	—	—
Wood	—	—	—	—	—	—
Combined counties	28,010	2.20	61,900	35,900	1.75	63,100
Central	28,800	2.20	63,600	35,900	1.75	63,100
Brown	—	—	—	—	—	—
Calumet	—	—	—	—	—	—
Door	—	—	—	—	—	—
Fond Du Lac	—	—	—	—	—	—
Kewaunee	—	—	—	—	—	—
Manitowoc	—	—	—	—	—	—
Outagamie	—	—	—	—	—	—
Sheboygan	—	—	—	—	—	—
Winnebago	—	—	—	—	—	—

OTHER HAY (DRY): ACREAGE, YIELD, AND PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018 1/

County and district	2017			2018		
	Harvested	Yield per acre	Production	Harvested	Yield per acre	Production
	Acres	Tons		Acres	Tons	
Combined counties	37,800	2.35	88,700	54,300	1.80	96,900
East Central	37,800	2.35	88,700	54,300	1.80	96,900
Crawford	-	-	-	-	-	-
Grant	-	-	-	-	-	-
Iowa	-	-	-	-	-	-
Lafayette	-	-	-	-	-	-
Richland	-	-	-	-	-	-
Sauk	-	-	-	-	-	-
Vernon	8,030	2.05	16,500	-	-	-
Combined counties	34,170	2.55	86,900	67,300	2.40	162,800
Southwest	42,200	2.45	103,400	67,300	2.40	162,800
Columbia	3,500	2.65	9,200	-	-	-
Dane	-	-	-	-	-	-
Dodge	-	-	-	-	-	-
Green	-	-	-	-	-	-
Jefferson	-	-	-	-	-	-
Rock	-	-	-	-	-	-
Combined counties	24,900	2.40	60,100	38,400	2.05	78,300
South Central	28,400	2.45	69,300	38,400	2.05	78,300
Kenosha	1,250	2.25	2,800	-	-	-
Milwaukee	-	-	-	-	-	-
Ozaukee	-	-	-	-	-	-
Racine	-	-	-	-	-	-
Walworth	-	-	-	-	-	-
Washington	-	-	-	-	-	-
Waukesha	1,540	1.65	2,520	-	-	-
Combined counties	5,010	2.45	12,380	16,000	2.30	36,400
Southeast	7,800	2.25	17,700	16,000	2.30	36,400
Wisconsin	360,000	2.20	792,000	540,000	1.90	1,026,000

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, 2014-2018

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)					
2014	2,700	3.54	9,570	—	—
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	—	—
ALL ALFALFA FORAGE 1/ (DRY EQUIVALENT)					
2014	2,200	3.84	8,455	—	—
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	—	—
ALL HAY (DRY ONLY)					
2014	1,640	2.97	4,866	143.00	697,716
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	144.00	414,873
ALFALFA HAY (DRY ONLY)					
2014	1,250	3.30	4,125	151.00	622,875
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	153.00	294,831
ALL OTHER HAY 2/ (DRY ONLY)					
2014	390	1.90	741	101.00	74,841
2015	310	2.30	713	65.00	46,345
2016	330	2.20	726	57.00	41,382
2017	360	2.20	897	83.00	65,736
2018	540	1.90	1,026	117.00	120,042

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, 2014-2018

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Dollars per ton												
ALFALFA HAY (BALED)												
2014	200.00	195.00	190.00	170.00	175.00	185.00	135.00	140.00	148.00	159.00	170.00	165.00
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
ALL OTHER HAY (BALED)												
2014	132.00	129.00	128.00	108.00	115.00	128.00	105.00	100.00	103.00	90.00	95.00	95.00
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

POTATOES: ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2014-2018

Year	Planted	Harvested	Yield per acre	Production	Value	
					Per cwt.	Total
					Dollars	1,000 dollars
	Acres		Cwt.	1,000 cwt.		
2014	65,000	64,000	410	26,240	10.40	272,896
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

PEPPERMINT FOR OIL: HARVESTED ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2014-2018

Year	Harvested	Yield per acre	Production	Value	
				Per pound	Total
				Dollars	1,000 dollars
	Acres	Pounds	1,000 lbs		
2014	(D)	(D)	(D)	(D)	(D)
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)

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

APPLES AND CHERRIES: ACREAGE, YIELD, AND VALUE, WISCONSIN, 2014-2018

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										
2014	4,000	13,500	54.0	51.0	0.718	0.096	0.612	30,371	831	31,202
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)
CHERRIES, TART										
2014	1,800	6,830	12.3	12.2	1.020	0.332	0.394	1,122	3,686	4,808
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

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, 2014-2018

Year	Harvested	Yield per acre 1/	Production		Utilization		Value	
			Total	Utilized	Fresh	Processed	Per barrel 2/	Total
			Acres	Barrels				Dollars
2014	20,700	239.5	5,022,000	4,957,000	165,000	4,792,000	27.90	138,370
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	25.90	142,664

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.

VEGETABLES: ACREAGE, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2014-2015

Year	Planted	Harvested	Yield per acre	Production	Value 1/	
					Per Ton	Total
Acres			Tons		Dollars	1,000 dollars
SWEET CORN, PROCESSING						
2014	69,900	65,800	8.24	542,160	96.20	52,177
2015	64,700	60,700	8.08	490,230	87.90	43,085
SNAP BEANS, PROCESSING						
2014	66,000	64,100	4.87	312,280	185.00	57,633
2015	69,200	65,300	5.05	329,530	202.00	66,472
GREEN PEAS, PROCESSING						
2014	37,700	36,600	1.93	70,640	378.00	26,685
2015	36,000	34,300	2.37	81,120	334.00	27,110
CARROTS, PROCESSING						
2014	3,800	3,700	28.95	107,100	89.30	9,569
2015	3,900	3,800	25.72	97,730	98.80	9,652
CUCUMBERS FOR PICKLES						
2014	5,600	5,400	6.26	33,800	297.00	10,039
2015	5,600	5,400	6.09	32,890	290.00	9,538
Acres			Cwt.	1,000 cwt.	Dollars	1,000 Dollars
CABBAGE, FRESH						
2014	3,000	2,900	250	725	14.20	10,295
2015	(D)	(D)	(D)	(D)	(D)	(D)
ONIONS 2/						
2014	1,800	1,700	465	791	17.50	13,073
2015	1,600	1,500	430	645	16.60	10,624
SWEET CORN, FRESH						
2014	3,900	3,500	112	392	25.60	10,035
2015	3,900	3,700	129	477	29.30	13,976

(D) Withheld to avoid disclosing data for individual operations. 1/Value per unit is defined as "all payments to growers, plus the costs of materials and services provided to get the raw commodity to the plant receiving door." 2/ Summer storage onions only.

VEGETABLES ACREAGE, YIELD, PRODUCTION, AND PRICE BY UTILIZATION, WISCONSIN: 2016-2018

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		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
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
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
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
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
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	70,000	66,000	100	330	312,840	6,587	52.20	104.00	7.55	17,226	32,535	49,761
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

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

MAPLE SYRUP: TAPS, YIELD, PRODUCTION, AND VALUE, WISCONSIN, 2014-2018

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
2014	700	0.286	200	33.40	6,680	18	19	63	23
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

FLORICULTURE 1/: PRODUCTION, PRICE, AND VALUE, WISCONSIN, 2018

Plant type	Producers	Quantity sold, total all sizes	Percentage of quantity sold at wholesale	Wholesale price	Value of all sales at wholesale 2/
Bedding/garden plants:					
Flats (annuals)					
Begonias	83	65	52	7.21	469
Geraniums from vegetative cuttings	6	1	21	13.76	14
Impatiens, other	88	142	39	6.88	977
Marigolds	89	73	54	7.29	532
Other flowering and foliar	87	771	74	10.89	8,396
Pansies/violas	89	104	56	8.66	901
Petunias	94	97	54	8.01	777
Vegetable types	76	127	60	13.40	1,702
Pots (annuals)					
Begonias	83	223	26	(NA)	743
Geraniums from vegetative cuttings	94	813	39	(NA)	2,843
Impatiens, other	49	130	58	(NA)	339
Impatiens, New Guinea	89	500	76	(NA)	706
Other flowering and foliar	82	5,618	79	(NA)	12,738
Petunias	65	235	16	(NA)	675
Vegetable types	59	1,723	77	(NA)	4,604
Hanging baskets (annuals)					
Begonias	76	41	50	13.52	554
Geraniums from vegetative cuttings	68	49	38	9.13	447
Impatiens, other	67	31	44	6.09	189
Impatiens, New Guinea	58	31	68	7.96	247
Other flowering and foliar	77	957	87	7.87	7,532
Pansies/violas	27	9	59	6.28	57
Petunias	78	108	50	6.19	669
Herbaceous perennials					
Chrysanthemums (hardy/garden)	73	976	86	(NA)	2,868
Daylilies	50	91	62	(NA)	444
Ferns (hardy/garden)	35	17	52	(NA)	93
Hostas	69	174	53	(NA)	796
Other potted herbaceous perennials	82	4,079	51	(NA)	12,075
Peonies	43	20	67	(NA)	319
Cut flowers:					
Dahlias (stem)	3	8	26	8.45	68
Gladioli (spike)	4	6	2	1.84	11
Snapdragons (spike)	4	6	25	0.89	5
Sunflowers (stem)	4	35	43	0.73	25
Tulips (stem)	5	51	48	0.80	41
Flowering potted plants:					
Chrysanthemums, florist	14	92	81	(NA)	559
Lilies, Easter	14	38	81	(NA)	278
Poinsettias	35	428	83	(NA)	2,057
Spring flowering bulbs	12	11	45	(NA)	63
Potted foliage	21	(NA)	14	(NA)	872

(NA) Not available. 1/Operations with \$100,000+ sales. 2/Equivalent wholesale value of all sales.

Livestock & Dairy

In 2018, Wisconsin produced 30.6 billion pounds of milk, a 1 percent increase over the previous year. The number of milk cows declined slightly, averaging 1.27 million head. Milk per cow rose from 23,725 pounds in 2017 to 24,002 in 2018. Milk prices began the year at \$16.40 per hundredweight (cwt.) in January, and varied before bottoming out at \$15.40 in July. Prices then rose to a high of \$17.80 per cwt in October and ended the year at \$16.20 per cwt.

Wisconsin maintained its status as the nation's largest cheese producer in 2018, with 26 percent of the nation's production. From 2017 to 2018, the state's total cheese production rose 1 percent to 3.42 billion pounds. Italian cheese production was up 2 percent to 1.73 billion pounds, comprising 51 percent of Wisconsin's total production. Production of American cheeses rose 1 percent to 1.03 billion pounds. Specialty cheese production grew from 799 million pounds in 2017 to 803 million pounds in 2018, accounting for 23 percent of the state's total cheese production.

The total inventory of cattle and calves on January 1, 2019 was 3.45 million head, down 50,000 head from the previous year. The number of milk cows fell 5,000 head from the previous year, to 1,270,000 head. The number of beef cows rose 5,000 head to 290,000 head. On the U.S. level, slaughter prices fell \$5.00 to \$115.00 per cwt. for cattle and rose to \$170.00 per cwt. for calves. Wisconsin's total value of production rose 6 percent to \$1.71 billion.

As of December 1, 2018, hog inventory totaled 325,000 head, 20,000 more than a year earlier. Pork production totaled 174 million pounds (live weight basis), up 5 percent. Average price per cwt. on the U.S. level fell 5 percent to \$50.20. Wisconsin's value of production rose 4 percent, from \$108 million in 2017 to \$112 million in 2018.

Sheep and lamb inventory was 75,000 head as of January 1, 2019, the same as the previous year. Wool production held steady at 330,000 pounds total, and the average price for wool fell to \$0.60 per pound. Milk goat inventory rose 7 percent to 72,000 head in total. Wisconsin continues to have the largest number of milk goats in the nation with 17 percent of the U.S. total. .

Egg production increased 12 percent to 2.08 billion eggs for the year ending November 30, 2018. There were 7.27 million layers, with an average of 286 eggs per layer. Egg prices rose 45 percent to \$1.02 per dozen in 2018. The value of production was up 62 percent to \$176 million.

In 2018, broiler production was 55.8 million head, up 4 percent. The price of broilers increased 4 percent to 56 cents per pound. This resulted in a 4 percent increase in the value of broiler production.

The total sales value of trout fell 13 percent in 2018 to 1.47 million dollars. Trout distributed for restoration, conservation, or recreational purposes were valued at 1.51 million dollars, down 31 percent from the previous year.

Wisconsin produced 971,600 mink pelts in 2018, down 14 percent from 2017. Wisconsin produced more mink pelts than any other state, with 31 percent of the nation's total production. The U.S. average price per pelt fell 26 percent to \$26.60. The total value of pelts produced in Wisconsin was \$25.8 million.

Honey production fell 23 percent, from 2.97 million pounds in 2017 to 2.30 million pounds in 2018. Honey-producing colonies fell by 2,000 to 51,000. Yield per colony decreased 20 percent, from an average of 56 pounds in 2017 to an average of 45 pounds in 2018. The average price of honey was down 6 cents to \$2.76 per pound.



LIVESTOCK AND DAIRY RECORDS IN WISCONSIN AGRICULTURE

Commodity	Unit	2018	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	1,270,000 2/	2,585,000	1946	245,000	1867	1867
Beef cows, Jan. 1	Head	290,000 2/	350,000	1976	16,000	1939	1920
Milk production	Mil. lbs.	30,579	30,579	2018	2,612	1889	1889
Milk per cow per year	Pounds	24,002	24,002	2018	5,100	1934	1933
Hogs, all, Dec. 1	Head	325,000	2,516,000	1943	300,000	2014	1866
Sheep & lambs, Jan. 1	Head	75,000 2/	543,000	1932	75,000	2019	1920
Milk goats, Jan. 1	Head	72,000 2/	72,000	2019	35,000	2008	2008
Layers, annual average	Head	7,271,000	18,848,000	1944	3,175,000	1993	1924
Egg production	Mil. eggs	2,078	2,411	1944	820	1993	1925
Total cheese	Thous. lbs.	3,422,895	3,422,895	2018	275,528	1922	1920
American cheese	Thous. lbs.	1,025,776	1,158,909	1983	215,400	1922	1920
Italian cheese	Thous. lbs.	1,729,627	1,729,627	2018	124	1925	1920
Hispanic cheese	Thous. lbs.	93,395	93,395	2018	14,447	1997	1997
Muenster cheese	Thous. lbs.	61,871	81,957	1987	5,044	1931	1931
Swiss cheese	Thous. lbs.	17,377	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, 2019.

LIVESTOCK: NUMBER OF HEAD AND VALUE, WISCONSIN, JANUARY 1, 2019

Commodity	Head	Value per head	Total value
	1,000	Dollars	1,000 dollars
Cattle and calves, all	3,450	920.00	3,174,000
Hogs and pigs, all 1/	325	97.00	31,525
Sheep and lambs, all	75	215.00	16,125
Chickens, total 1/ 2/	8,818	2.50	22,045

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

LIVESTOCK: NUMBER OF OPERATIONS, INVENTORY AND NUMBER SOLD, CENSUS OF AGRICULTURE, WISCONSIN, 2017

Item	Number of Operations	Inventory	Operations with Sales	Number Sold
		Head		Head
Alpacas	300	3,532	56	329
Bison	71	5,899	46	1,389
Deer	78	7,943	45	1,469
Elk	59	1,454	26	139
Horses & Ponies	12,220	74,879	1,703	5,566
Mules, Burros & Donkeys	2,091	4,485	147	435
Llamas	339	1,649	45	179
Mink, live	67	342,885	6	4,142
Rabbits, live	297	8,901	121	9,740

POULTRY: NUMBER OF OPERATIONS, INVENTORY AND NUMBER SOLD, CENSUS OF AGRICULTURE, WISCONSIN, 2017

Item	Number of Operations	Inventory	Operations with Sales	Number Sold
		Head		Head
Chukars	43	27,190	27	40,910
Ducks	1,070	30,739	262	158,479
Emus	36	745	15	207
Geese	485	3,706	65	2,839
Guineas	599	6,345	94	2,114
Ostriches	7	(D)	1	(D)
Partridges, Hungarian	5	(D)	3	(D)
Peafowl	240	1,350	15	78
Pheasants	147	478,005	107	1,791,196
Pigeons & Squab	97	3,802	26	3,201
Quail	60	16,253	37	25,187
Rheas	2	(D)	2	(D)
Turkeys	596	2,377,777	365	5,579,620

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

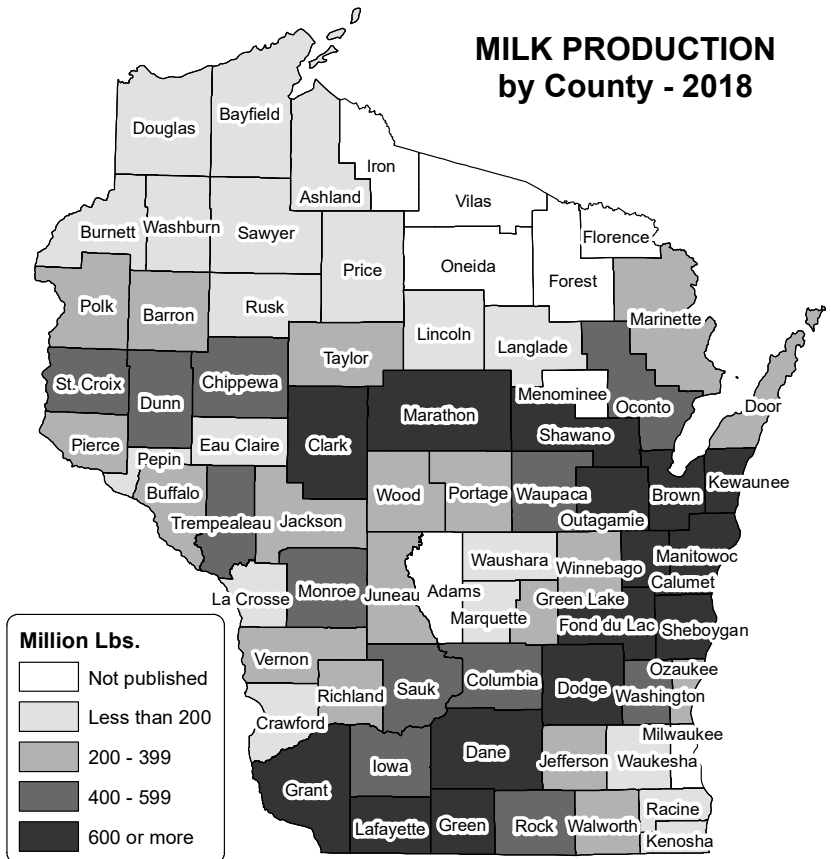
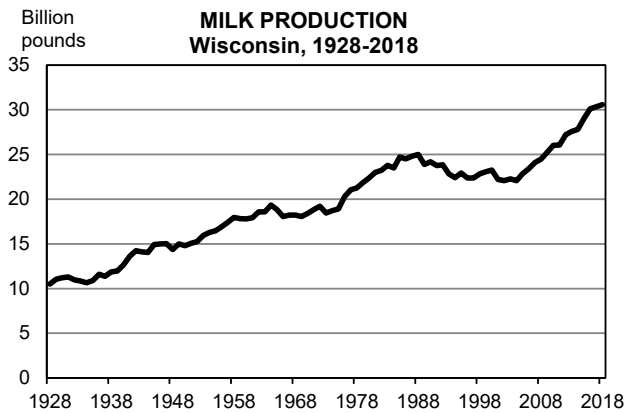
MILK COWS: PRODUCTION PER COW AND TOTAL MILK PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018

County	2017			2018		
	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	2,300	22,300	51,290	2,500	22,500	56,250
Barron	21,500	18,400	395,600	21,000	18,500	388,500
Bayfield	1,500	18,100	27,150	1,400	18,200	25,480
Brown	45,000	27,800	1,251,000	45,000	28,200	1,269,000
Buffalo	16,900	20,600	348,140	16,700	20,700	345,690
Burnett	3,600	18,300	65,880	3,700	18,400	68,080
Calumet	31,000	27,300	846,300	31,000	27,600	855,600
Chippewa	26,000	20,400	530,400	26,000	21,000	546,000
Clark	68,000	22,600	1,536,800	67,000	22,900	1,534,300
Columbia	18,000	26,000	468,000	18,400	26,200	482,080
Crawford	6,900	18,000	124,200	6,800	18,000	122,400
Dane	54,000	27,400	1,479,600	54,000	27,600	1,490,400
Dodge	41,000	25,000	1,025,000	41,000	25,200	1,033,200
Door	11,000	20,700	227,700	10,200	20,900	213,180
Douglas	400	16,900	6,760	400	16,900	6,760
Dunn	19,200	21,500	412,800	19,000	21,700	412,300
Eau Claire	7,900	18,300	144,570	7,400	18,400	136,160
Florence 2/	-	-	-	-	-	-
Fond du Lac	59,000	26,300	1,551,700	59,000	26,400	1,557,600
Forest 2/	-	-	-	-	-	-
Grant	44,000	21,700	954,800	44,000	21,900	963,600
Green	26,500	23,700	628,050	26,000	24,100	626,600
Green Lake	9,200	22,700	208,840	9,500	22,800	216,600
Iowa	21,500	19,700	423,550	21,000	19,700	413,700
Iron 2/	-	-	-	-	-	-
Jackson	13,300	20,500	272,650	13,000	20,700	269,100
Jefferson	14,600	24,800	362,080	14,800	24,900	368,520
Juneau	10,800	21,000	226,800	10,500	21,200	222,600
Kenosha	3,500	23,700	82,950	3,500	23,800	83,300
Kewaunee	51,000	26,600	1,356,600	52,000	26,700	1,388,400
La Crosse	8,000	18,400	147,200	7,500	18,600	139,500
Lafayette	30,500	20,500	625,250	30,500	20,800	634,400
Langlade	7,500	23,200	174,000	7,700	23,500	180,950
Lincoln	3,800	20,900	79,420	3,800	21,200	80,560
Manitowoc	55,000	27,700	1,523,500	55,000	27,800	1,529,000
Marathon	64,000	22,400	1,433,600	64,000	22,700	1,452,800
Marinette	15,100	25,000	377,500	15,500	25,400	393,700
Marquette	5,500	25,600	140,800	5,300	25,700	136,210
Menominee 2/	-	-	-	-	-	-
Milwaukee 2/	-	-	-	-	-	-
Monroe	23,500	20,900	491,150	23,500	20,900	491,150
Oconto	20,500	25,200	516,600	21,000	25,600	537,600
Oneida 2/	-	-	-	-	-	-
Outagamie	36,500	27,200	992,800	36,500	27,400	1,000,100
Ozaukee	9,500	25,300	240,350	9,400	25,400	238,760
Pepin	7,700	25,000	192,500	7,700	25,100	193,270
Pierce	15,000	20,900	313,500	15,000	21,000	315,000
Polk	14,500	19,400	281,300	14,300	19,400	277,420
Portage	12,200	22,300	272,060	12,000	22,600	271,200
Price	4,700	20,200	94,940	4,500	20,700	93,150
Racine	3,600	25,600	92,160	3,800	25,900	98,420

MILK COWS: PRODUCTION PER COW AND TOTAL MILK PRODUCTION, BY COUNTY, WISCONSIN, 2017-2018

County	2017			2018		
	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	15,000	20,500	307,500	15,100	20,700	312,570
Rock	17,400	24,800	431,520	17,300	25,300	437,690
Rusk	9,400	20,000	188,000	9,200	20,600	189,520
Sauk	21,500	21,200	455,800	21,000	21,500	451,500
Sawyer	3,400	21,000	71,400	3,600	21,400	77,040
Shawano	37,500	25,500	956,250	38,000	26,000	988,000
Sheboygan	28,000	26,500	742,000	28,000	26,600	744,800
St. Croix	18,200	23,600	429,520	17,900	24,100	431,390
Taylor	15,300	19,900	304,470	15,000	20,400	306,000
Trempealeau	20,500	21,200	434,600	20,500	21,200	434,600
Vernon	19,500	18,200	354,900	19,000	18,300	347,700
Vilas 2/	-	-	-	-	-	-
Walworth	14,300	27,200	388,960	14,200	27,500	390,500
Washburn	2,600	23,300	60,580	2,900	23,700	68,730
Washington	15,500	26,200	406,100	15,200	26,400	401,280
Waukesha	2,000	26,100	52,200	1,800	26,600	47,880
Waupaca	22,500	24,000	540,000	22,500	24,600	553,500
Waushara	6,500	25,100	163,150	6,600	25,500	168,300
Winnebago	14,700	24,900	366,030	14,900	24,900	371,010
Wood	17,900	22,000	393,800	17,800	22,200	395,160
Wisconsin	1,278,000	23,735	30,333,000	1,274,000	24,002	30,579,000

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



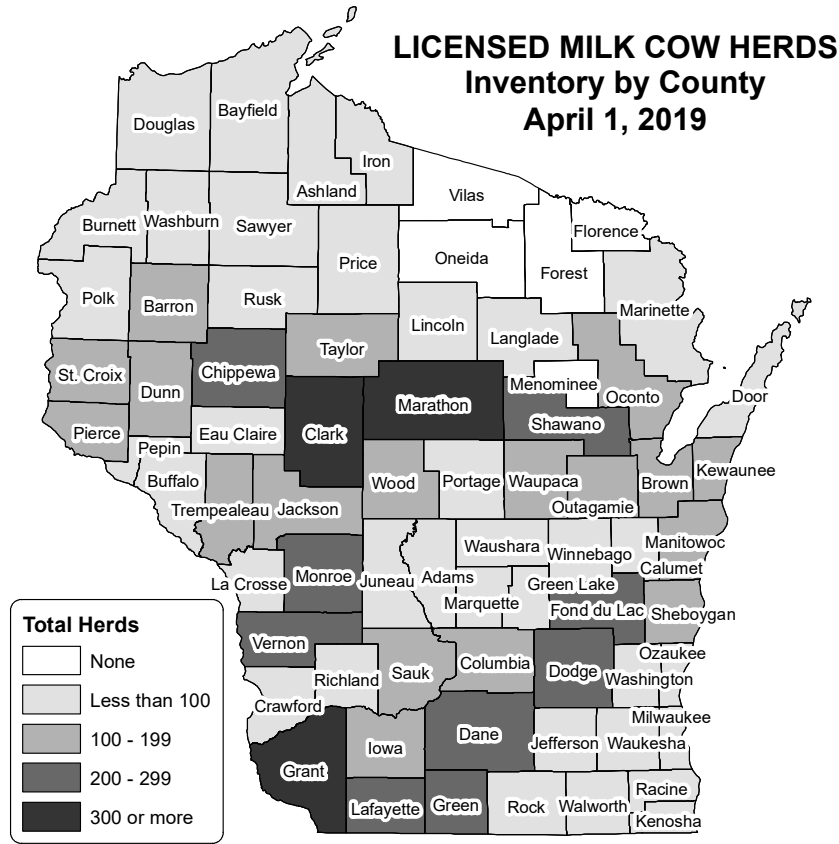
WISCONSIN MILK COW HERDS BY TYPE OF MILK PRODUCED: NUMBER AND PERCENT BY COUNTY, 2019 1/

County	Total Grade A		Total Grade B			Percent of total	Total herds
	Herds	Percent of total	Herds				
			Bulk	Can	Total		
Adams	12	100%	0	0	0	0%	12
Ashland	12	100%	0	0	0	0%	12
Barron	145	95%	7	0	7	5%	152
Bayfield	16	94%	1	0	1	6%	17
Brown	130	98%	2	0	2	2%	132
Buffalo	93	100%	0	0	0	0%	93
Burnett	23	92%	1	1	2	8%	25
Calumet	86	100%	0	0	0	0%	86
Chippewa	232	97%	5	2	7	3%	239
Clark	639	83%	16	115	131	17%	770
Columbia	76	75%	0	25	25	25%	101
Crawford	69	97%	2	0	2	3%	71
Dane	212	98%	4	1	5	2%	217
Dodge	205	100%	0	0	0	0%	205
Door	57	97%	2	0	2	3%	59
Douglas	6	100%	0	0	0	0%	6
Dunn	112	97%	4	0	4	3%	116
Eau Claire	54	59%	3	35	38	41%	92
Florence	0	0%	0	0	0	0%	0
Fond du Lac	198	99%	3	0	3	1%	201
Forest	0	0%	0	0	0	0%	0
Grant	322	94%	19	0	19	6%	341
Green	150	72%	59	0	59	28%	209
Green Lake	39	59%	0	27	27	41%	66
Iowa	150	93%	12	0	12	7%	162
Iron	4	100%	0	0	0	0%	4
Jackson	82	68%	5	34	39	32%	121
Jefferson	77	100%	0	0	0	0%	77
Juneau	56	100%	0	0	0	0%	56
Kenosha	18	100%	0	0	0	0%	18
Kewaunee	128	96%	6	0	6	4%	134
La Crosse	62	97%	2	0	2	3%	64
Lafayette	202	92%	17	0	17	8%	219
Langlade	38	100%	0	0	0	0%	38
Lincoln	32	97%	1	0	1	3%	33
Manitowoc	189	99%	1	0	1	1%	190
Marathon	446	94%	30	0	30	6%	476
Marinette	51	100%	0	0	0	0%	51
Marquette	18	69%	1	7	8	31%	26
Milwaukee	0	0%	1	0	1	100%	1
Monroe	139	57%	3	103	106	43%	245
Oconto	106	99%	1	0	1	1%	107
Oneida	0	100%	0	0	0	0%	0
Outagamie	144	95%	7	0	7	5%	151
Ozaukee	36	97%	1	0	1	3%	37
Pepin	46	98%	1	0	1	2%	47
Pierce	103	98%	2	0	2	2%	105
Polk	96	98%	2	0	2	2%	98
Portage	79	96%	3	0	3	4%	82
Price	41	95%	2	0	2	5%	43
Racine	22	100%	0	0	0	0%	22
Richland	79	90%	3	6	9	10%	88
Rock	76	100%	0	0	0	0%	76
Rusk	84	95%	4	0	4	5%	88
St. Croix	101	87%	4	11	15	13%	116
Sauk	143	92%	13	0	13	8%	156
Sawyer	13	100%	0	0	0	0%	13
Shawano	238	97%	8	0	8	3%	246
Sheboygan	119	98%	2	0	2	2%	121
Taylor	177	92%	14	2	16	8%	193
Trempealeau	111	93%	6	2	8	7%	119
Vernon	143	48%	7	145	152	52%	295

WISCONSIN MILK COW HERDS BY TYPE OF MILK PRODUCED: NUMBER AND PERCENT BY COUNTY, 2019 1/

County	Total Grade A		Total Grade B			Percent of total	Total herds
	Herds	Percent of total	Herds				
			Bulk	Can	Total		
Walworth	60	98%	1	0	1	2%	61
Washburn	11	85%	2	0	2	15%	13
Washington	79	100%	0	0	0	0%	79
Waukesha	17	100%	0	0	0	0%	17
Waupaca	124	95%	7	0	7	5%	131
Waushara	29	94%	2	0	2	6%	31
Winnebago	61	94%	4	0	4	6%	65
Wood	152	94%	9	0	9	6%	161
Wisconsin	7,070	90%	312	516	828	10%	7,898

1/ Based on data from the Dairy Producer License list as of April 1, 2019, Division of Food and Recreational Safety, Wisconsin Department of Agriculture, Trade and Consumer Protection.



NUMBER OF MILK COW HERDS: BY MONTHS, WISCONSIN, 2016-2019 1/

Month	2016	2017	2018	2019
January	9,695	9,304	8,801	8,110
February	9,678	9,288	8,760	8,046
March	9,618	9,261	8,719	7,983
April	9,601	9,236	8,649	7,898
May	9,566	9,167	8,595	7,808
June	9,517	9,106	8,517	7,722
July	9,494	9,046	8,463	7,661
August	9,470	9,021	8,419	7,619
September	9,447	8,970	8,372	7,559
October	9,406	8,938	8,304	
November	9,360	8,877	8,217	
December	9,343	8,839	8,163	

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, 2016-2019 1/

Month	2016	2017	2018	2019
January	267	344	353	371
February	268	350	372	371
March	279	360	376	382
April	299	369	369	379
May	339	379	399	377
June	311	381	397	374
July	345	389	394	370
August	341	389	392	367
September	346	391	388	360
October	345	386	386	
November	348	381	385	
December	340	378	374	

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, 2014-2018 1/

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	1,000 head												
2014	1,270	1,270	1,270	1,269	1,269	1,270	1,271	1,271	1,272	1,272	1,273	1,274	1,271
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

1/Excludes heifers not yet fresh.

MILK PRODUCTION PER COW: BY MONTHS, WISCONSIN, 2014-2018

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	Pounds												
2014	1,825	1,665	1,850	1,815	1,885	1,830	1,870	1,865	1,800	1,840	1,770	1,855	21,869
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	23,725
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

MILK PRODUCTION: BY MONTHS, WISCONSIN, 2014-2018

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	Million pounds												
2014	2,318	2,115	2,350	2,303	2,392	2,324	2,377	2,370	2,290	2,340	2,253	2,363	27,795
2015	2,410	2,187	2,431	2,369	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	2,548	2,449	2,574	30,579

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
2018	149.9	227.2

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, 2014-2018

Year	Milk cows 1/	Milk per cow 2/	Total production 2/
	1,000 head	Pounds	Million pounds
2014	9,261	22,249	206,048
2015	9,320	22,372	208,508
2016	9,334	22,761	212,451
2017	9,406	22,914	215,527
2018	9,399	23,149	217,575

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, 2018**

Month	Milk, all uses	
	Price	Milkfat
	Dollars per cwt.	Percent
January	16.40	3.99
February	15.60	3.96
March	16.20	3.93
April	16.50	3.94
May	16.80	3.83
June	16.50	3.74
July	15.40	3.71
August	16.30	3.73
September	17.50	3.82
October	17.80	3.98
November	17.00	4.04
December	16.20	4.01
Annual	16.50	3.89

**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
2018	30,273	99	306	1	30,579

**MILK PRICES AND MILKFAT CONTENT:
WISCONSIN, 2014-2018**

Year	Milk, all uses	
	Price	Milkfat
	Dollars per cwt.	Percent
2014	24.50	3.78
2015	17.80	3.76
2016	16.80	3.76
2017	18.10	3.82
2018	16.50	3.89

**MILK COW PRICES RECEIVED BY FARMERS:
WISCONSIN, 2014-2018**

Year	Jan.	April	July	Oct.
	Dollars per head			
2014	1,570	1,900	2,100	2,220
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

^{1/7} Data not collected due to sequestration.

UPPER MIDWEST MARKET ORDER AVERAGE HAULING CHARGES: BY COUNTY, WISCONSIN, MAY 2018

County	Dollars per cwt.	County	Dollars per cwt.	County	Dollars per cwt.
Adams	0.01	Green Lake	0.16	Portage	0.11
Ashland	0.42	Iowa	0.34	Price	0.15
Barron	0.30	Iron	0.90	Racine	0.40
Bayfield	0.62	Jackson	0.24	Richland	0.41
Brown	0.15	Jefferson	0.22	Rock	0.18
Buffalo	0.44	Juneau	0.49	Rusk	0.49
Burnett	0.15	Kenosha	0.55	Sauk	0.44
Calumet	0.26	Kewaunee	0.10	Sawyer	0.50
Chippewa	0.36	La Crosse	0.50	Shawano	0.15
Clark	0.16	Lafayette	0.33	Sheboygan	0.29
Columbia	0.31	Langlade	0.20	St. Croix	0.29
Crawford	0.54	Lincoln	0.26	Taylor	0.27
Dane	0.30	Manitowoc	0.19	Trempealeau	0.42
Dodge	0.28	Marathon	0.14	Vernon	0.54
Door	0.17	Marinette	0.29	Walworth	0.26
Douglas	0.55	Marquette	0.22	Washburn	0.61
Dunn	0.27	Monroe	0.41	Washington	0.25
Eau Claire	0.42	Oconto	0.15	Waukesha	0.49
Florence	0.25	Outagamie	0.07	Waupaca	0.15
Fond du Lac	0.14	Ozaukee	0.22	Waushara	0.07
Forest	(D)	Pepin	0.38	Winnebago	0.10
Grant	0.36	Pierce	0.35	Wood	0.12
Green	0.25	Polk	0.21	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, 2017-2018**

Area and kind	Herds		Milk Cows		Production per cow						
	2017	2018	2017	2018	2017 1/			2018 1/			
					Milk	Fat	Protein	Milk	Fat	Protein	
	Number				Pounds						
WISCONSIN											
Official	2,338	2,178	639,138	645,229	26,694	1,010	830	26,473	1,021	825	
Non-official (management)	1,375	1,279	145,346	140,294	23,127	917	716	23,046	921	714	
Total	3,713	3,455	784,484	785,523	26,033	993	809	25,861	1,003	805	
UNITED STATES											
Official	11,612	10,846	3,738,482	3,705,123	24,776	951	783	24,660	956	781	
Non-official (management)	4,815	4,712	602,289	597,130	22,336	862	696	22,237	867	692	
Total	16,427	15,558	4,340,771	4,302,253	24,437	939	771	24,324	944	769	

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

DHI PRODUCTION AVERAGES BY BREED: WISCONSIN, 2017-2018

Breeds	2017						2018					
	Herds	Milk	Fat	Test	Protein	Test	Herds	Milk	Fat	Test	Protein	Test
Ayrshire	21	19,168	740	3.86	595	3.10	19	19,471	765	3.93	614	3.15
Brown Swiss	69	20,840	871	4.18	709	3.40	73	20,451	861	4.21	697	3.41
Guernsey	33	18,096	820	4.53	617	3.41	30	17,274	773	4.47	590	3.42
Holstein	2,509	26,105	992	3.80	807	3.09	2,192	26,120	1,010	3.87	811	3.10
Jersey	148	17,911	898	5.01	658	3.67	148	17,572	883	5.03	642	3.65
Milking Shorthorn /Red and White	16	15,572	623	4.00	491	3.15	14	15,726	626	3.98	498	3.17
All breeds	2,796	25,810	987	3.82	801	3.10	2,476	25,787	1,004	3.89	804	3.12

**WEIGHTED AVERAGE LEVELS OF
COMPONENTS & SOMATIC CELL COUNT IN MILK
ASSOCIATED WITH THE UPPER MIDWEST MILK
MARKETING ORDER, 2018**

Month	Protein	Other solids	Solids not-fat	Somatic cell count
		Percent		Average
January	3.20	5.73	8.93	173
February	3.19	5.74	8.93	173
March	3.15	5.75	8.90	167
April	3.14	5.75	8.89	165
May	3.05	5.77	8.82	171
June	3.01	5.79	8.80	189
July	3.00	5.79	8.79	200
August	3.04	5.78	8.82	194
September	3.09	5.77	8.86	195
October	3.20	5.78	8.98	167
November	3.24	5.76	9.00	156
December	3.20	5.76	8.96	157
Average	3.13	5.76	8.89	176

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

**DHI COMPONENT DATA FOR TOP 10 MILK
PRODUCING COUNTIES, WISCONSIN, 2018**

Counties ranked by production	Total number of herds tested	Butterfat average percent	Protein average percent
Fond du Lac	88	3.77	3.11
Clark	182	3.96	3.11
Dane	131	3.80	3.08
Manitowoc	105	3.82	3.04
Marathon	142	3.95	3.11
Kewaunee	19	3.83	3.14
Brown	52	3.83	3.11
Outagamie	14	3.85	3.15
Dodge	115	3.86	3.08
Grant	131	3.94	3.09

Source: AgSource Cooperative Services

MILK PRODUCTION COSTS AND RETURNS: WISCONSIN AND UNITED STATES, 2017-2018

Item	Wisconsin		United States	
	2017	2018	2017	2018
	Dollars per cwt.			
Gross value of production:				
Milk sold	19.44	17.61	18.32	16.82
Cattle	1.31	1.19	1.37	1.24
Other income 1/	0.44	0.44	0.50	0.50
Total, gross value of production	21.19	19.24	20.19	18.56
Operating costs:				
Feed--				
Purchased feed	4.64	4.83	6.49	6.76
Homegrown harvested feed	3.18	3.61	2.69	3.06
Grazed feed	0.09	0.09	0.07	0.08
Total, feed costs	7.91	8.53	9.25	9.90
Other--				
Veterinary and medicine	0.92	0.94	0.75	0.76
Bedding and litter	0.31	0.32	0.19	0.20
Marketing	0.16	0.17	0.18	0.18
Custom services	0.58	0.59	0.65	0.66
Fuel, lube, and electricity	0.76	0.81	0.59	0.64
Repairs	0.76	0.79	0.62	0.64
Cost for third party organic certification	0.01	0.01	0.00	0.00
Interest on operating capital	0.06	0.13	0.06	0.13
Total, operating cost	11.47	12.29	12.29	13.11
Allocated overhead:				
Hired labor	1.85	1.90	1.87	1.99
Opportunity cost of unpaid labor	2.69	2.73	1.45	1.82
Capital recovery of machinery and equipment 2/	4.15	4.28	3.89	3.98
Opportunity cost of land (rental rate)	0.03	0.03	0.02	0.03
Taxes and insurance	0.23	0.24	0.18	0.18
General farm overhead	0.63	0.66	0.54	0.55
Total, allocated overhead	9.58	9.84	7.95	8.55
Total costs listed	21.05	22.13	20.24	21.66
Value of production less total costs listed	0.14	-2.89	-0.05	-3.10
Value of production less operating costs	9.72	6.95	7.90	5.45
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, 2014-2018

Year	Total Cheese 1/	Total American 2/	Hispanic	Muenster	Italian	Mozzarella	Swiss
1,000 pounds							
2014	2,912,144	848,879	71,790	57,250	1,459,655	990,654	22,741
2015	3,069,641	909,749	77,197	60,935	1,537,095	1,051,136	16,651
2016	3,248,440	963,413	85,403	60,232	1,642,286	1,092,440	18,201
2017	3,376,769	1,016,702	90,982	61,690	1,703,029	1,110,105	16,664
2018	3,422,895	1,025,776	93,395	61,871	1,729,627	1,138,200	17,377

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. (D) Not published to avoid disclosing individual operations.

PROCESSED CHEESE AND CHEESE FOODS: WISCONSIN, 2014-2018

Year	Processed cheese	Processed cheese foods & spreads	Cold pack cheese & cheese food
1,000 pounds			
2014	644,814	311,307	36,224
2015	665,900	264,920	29,135
2016	703,388	184,271	21,867
2017	716,886	161,199	25,613
2018	694,099	162,822	24,647

WHEY PRODUCTS: WISCONSIN, 2014-2018

Year	Dry whey		Total lactose	Whey protein concentrate human food
	Human food	Animal		
1,000 pounds solids				
2014	280,339	3,211	237,557	115,002
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

AMERICAN CHEESE PRODUCTION, BY STYLE: WISCONSIN, 2018

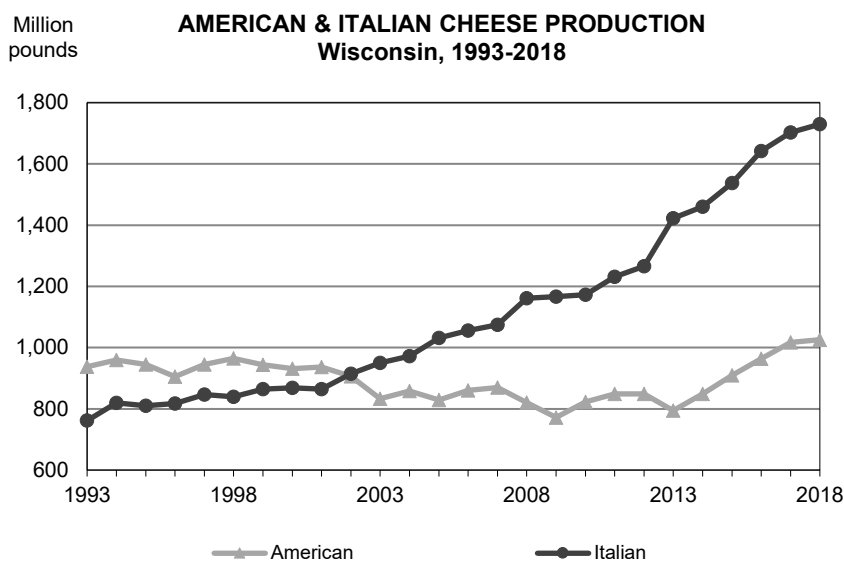
Style	Production	Percent of total 1/
1,000 lbs.		
American Cheddar		
40-lb block	252,707	24.6
640-lb block	296,540	28.9
Other types 2/	165,463	16.1
Colby	83,935	8.2
Monterey Jack	227,131	22.1
Total American types	1,025,776	100

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

ITALIAN CHEESE PRODUCTION, BY STYLE: WISCONSIN, 2018

Style	Production	Percent of total
1,000 lbs.		
Hard		
Asiago	28,882	1.7
Parmesan	218,743	12.6
Provolone	213,659	12.4
Romano	32,817	1.9
Soft		
Mozzarella	1,138,200	65.8
All other	97,326	5.6
All Italian	1,729,627	100.0

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



**TOTAL CHEESE, EXCLUDING COTTAGE
CHEESE: WISCONSIN, 2018**

Ranges of annual production	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	35	7,756
1 to 4.99 million lbs.	20	55,224
5 to 9.99 million lbs.	15	117,812
10 to 24.99 million lbs.	11	194,835
25 million lbs. and over	37	3,047,268
Total	118	3,422,895

CHEDDAR CHEESE: WISCONSIN, 2018

Ranges of annual production 1/	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	42	7,246
1 to 9.99 million lbs.	12	23,377
10 million lbs. and over	15	684,087
Total	69	714,710

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

ITALIAN CHEESE: WISCONSIN, 2018

Ranges of annual production 1/	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	23	3,973
1 to 19.99 million lbs.	8	60,779
20 million lbs. and over	22	1,664,875
Total	53	1,729,627

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

MOZZARELLA CHEESE: WISCONSIN, 2018

Ranges of annual production 1/	State plants	Production
	No.	1,000 lbs.
Less than 1 million lbs.	13	2,782
1 to 19.99 million lbs.	8	60,321
20 million lbs. and over	14	1,075,097
Total	35	1,138,200

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

SPECIALTY CHEESE PRODUCTION, WISCONSIN, 2017 AND 2018

Type	2017 number of producers	2017 revised production	2018 number of producers	2018 production	Change in production from 2017
		1,000 pounds		1,000 pounds	percent
Asiago	13	31,941	14	28,882	-10
Cheddar 1/	40	29,036	44	28,624	-1
Colby 1/	10	7,792	(D)	(D)	(NA)
Farmers	12	1,342	13	1,475	10
Feta	8	97,990	9	102,505	5
Gorgonzola	10	18,102	9	18,007	-1
Gouda	26	18,684	29	14,188	-24
Italian Fontina	12	12,198	12	11,447	-6
Havarti	12	42,685	12	40,455	-5
Hispanic	12	91,407	15	93,394	2
Limburger	1	447	1	464	4
Monterey Jack 1/	(D)	(D)	15	9,392	(NA)
Parmesan Wheel	6	67,116	6	70,948	6
Romano Wheel	6	10,655	8	9,516	-11
All Other 2/	59	369,255	54	373,375	1
Total 3/	99	798,650	99	802,672	1

(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, Caerphilly, specialty Colby, Edam, Fior di Latte, Fontinella, Gruyere, other specialty Italian, Italic, Juustoleipa, Kefalograviera Sagana, Kasseri, Mascarpone, Middle Eastern cheeses, Morning Sun, specialty Mozzarella, other specialty Parmesan, Pepato, Peperon, specialty Provolone, Raclette, other specialty Romano, Soft-ripened, specialty Swiss, Tvarog Polish, and Yogurt cheese. 3/ Total cheese plants producing one or more specialty cheeses.

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

Product	1970	1980	1985	1990	1995	2000	2005	2010	2015	2018
	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	15
Italian	66	57	58	51	52	48	53	56	63	53
Mozzarella	(NA)	44	48	43	42	35	40	41	39	35
Muenster	51	43	48	34	31	26	25	26	19	20
Swiss	41	20	22	14	11	10	(D)	(D)	9	11
Total cheese 2/	481	334	284	188	142	125	114	128	127	118
Dry whey, human food	19	14	16	12	11	10	9	9	10	10
Ice cream mix (regular)	41	21	23	17	12	10	12	(D)	14	13
Total manufacturing one or more dairy products	667	425	400	286	230	205	196	210	203	200

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, 2014-2018 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)											
2014	1.648	1.832	1.856	1.923	2.048	2.187	2.347	2.521	2.853	2.526	1.989	1.905
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
	NONFAT DRY MILK, (EXTRA GRADE AND USPH GRADE A, NONFORTIFIED)											
2014	2.034	2.078	2.090	2.019	1.877	1.863	1.862	1.789	1.472	1.490	1.390	1.255
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
	CHEDDAR CHEESE (NATURAL, UNAGED) 2/											
2014	2.084	2.286	2.269	2.355	2.170	2.036	2.048	2.107	2.347	2.291	2.131	1.736
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
	DRY WHEY (EXTRA GRADE, EDIBLE, NONHYGROSCOPIC)											
2014	0.603	0.631	0.655	0.677	0.675	0.679	0.689	0.688	0.673	0.653	0.637	0.587
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

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/

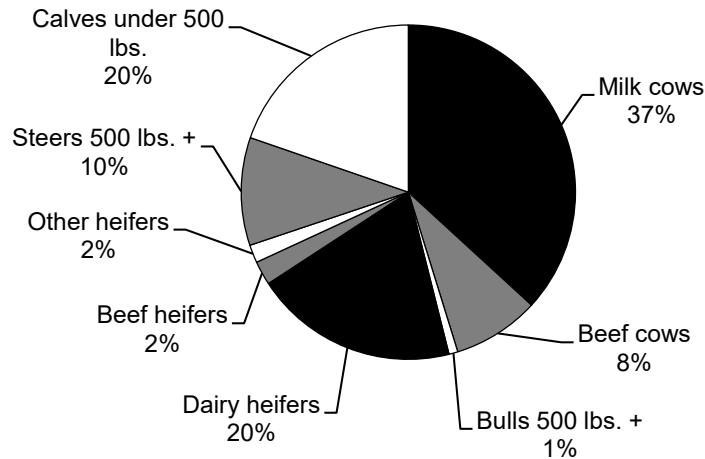
Year	Beef	Veal	Pork	Lamb	Total red	Chicken	Turkey	Fish & shellfish	Total meat, poultry, & fish
	Pounds								
1970	79.8	2.0	48.5	2.1	132.5	27.4	6.4	11.7	178.1
1975	83.2	2.8	38.4	1.3	125.8	26.4	6.5	12.1	170.8
1980	72.1	1.3	52.1	1.0	126.4	32.7	8.1	12.4	179.6
1985	74.6	1.5	47.7	1.1	124.9	36.4	9.1	15.0	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, 2015-2019

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									
2015	3,500	1,275	275	35	730	75	45	375	690
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

**CATTLE INVENTORY
Wisconsin, January 1, 2019**



CATTLE AND CALVES: INVENTORY, SUPPLY AND DISPOSITION, WISCONSIN, 2014-2018

Year	All cattle and calves January 1	Calf crop	Inshipment	Marketings		Farm slaughter	Deaths	
				Cattle	Calves	Cattle and calves	Cattle	Calves
1,000 head								
2014	3,400	1,400	107	836	370	4	62	135
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

CATTLE AND CALVES: PRODUCTION, AVERAGE PRICE, AND INCOME, WISCONSIN, 2014-2018

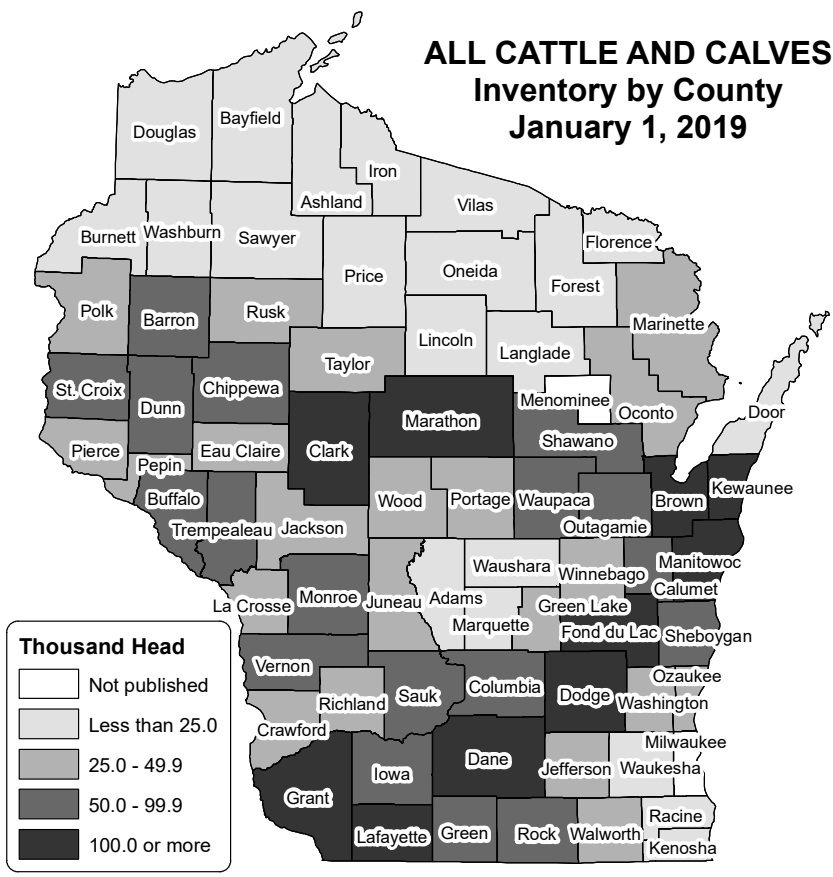
Year	Production	Marketings	Cash receipts	Value of home consumption	Gross income
				1,000 pounds	
1,000 pounds / 1,000 dollars					
2014	1,375,951	1,302,910	2,008,775	38,003	2,046,778
2015	1,383,837	1,394,950	2,128,331	49,110	2,177,441
2016	1,405,233	1,422,783	1,639,375	35,644	1,675,019
2017	1,527,467	1,646,915	1,846,035	28,501	1,874,536
2018	1,510,049	1,633,300	1,752,726	27,994	1,780,720

ALL CATTLE AND CALVES: BY COUNTY, WISCONSIN, JANUARY 1, 2018-2019 1/

County	2018	2019	County	2018	2019	County	2018	2019
	Head			Head			Head	
Adams	14,500	14,300	Kewaunee	110,000	105,000	Taylor	39,000	38,500
Ashland	9,300	9,200	La Crosse	26,500	26,000	Trempealeau	67,000	67,000
Barron	52,000	52,000	Lafayette	110,000	105,000	Vernon	72,000	71,000
Bayfield	7,800	7,700	Langlade	19,100	18,800	Vilas	100	100
Brown	125,000	125,000	Lincoln	10,500	10,400	Walworth	38,500	38,000
Buffalo	64,000	63,000	Manitowoc	110,000	110,000	Washburn	9,100	9,000
Burnett	13,400	13,300	Marathon	145,000	145,000	Washington	45,000	44,500
Calumet	70,000	69,000	Marinette	43,000	42,500	Waukesha	7,800	7,700
Chippewa	61,000	60,000	Marquette	19,500	19,300	Waupaca	55,000	55,000
Clark	165,000	160,000	Menominee	(D)	(D)	Waushara	16,000	15,800
Columbia	56,000	55,000	Milwaukee	(D)	(D)	Winnebago	30,000	29,500
Crawford	31,500	31,000	Monroe	68,000	67,000	Wood	44,000	43,000
Dane	155,000	155,000	Oconto	47,000	46,500			
Dodge	115,000	110,000	Oneida	1,000	1,000	Other Counties	100	100
Door	21,000	21,000	Outagamie	89,000	88,000			
Douglas	7,000	7,000	Ozaukee	26,500	26,000			
Dunn	51,000	51,000	Pepin	27,500	27,000			
Eau Claire	25,500	25,000	Pierce	46,500	46,000			
Florence	1,400	1,400	Polk	44,000	43,500			
Fond Du Lac	120,000	115,000	Portage	41,000	40,500			
Forest	2,900	2,800	Price	12,400	12,200			
Grant	175,000	175,000	Racine	10,100	10,000			
Green	70,000	69,000	Richland	46,500	46,000			
Green Lake	25,500	25,500	Rock	55,000	55,000			
Iowa	86,000	85,000	Rusk	25,500	25,000			
Iron	2,300	2,300	Sauk	67,000	66,000			
Jackson	42,500	42,000	Sawyer	6,900	6,900			
Jefferson	48,500	48,000	Shawano	85,000	84,000			
Juneau	27,000	27,000	Sheboygan	78,000	77,000			
Kenosha	9,800	9,700	St Croix	51,000	50,000			

Wisconsin 3,500,000 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, 2014-2018

Year	All hogs and pigs	Breeding hogs	Market hogs				
			Total	< 50 lbs.	50-119 lbs.	120-179 lbs.	180 lbs. +
			1,000 head				
2014	310	41	269	102	56	57	54
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	325	44	281	88	59	69	65

HOGS: INVENTORY, SUPPLY AND DISPOSITION, WISCONSIN, 2014-2018

Year	Beginning inventory	Pig crop	Inshipment	Marketings	Farm slaughter	Deaths
			1,000 head			
2014	295	650	155	762	1	27
2015	310	673	150	785	1	27
2016	320	661	195	814	1	26
2017	335	772	193	961	1	34
2018	305	867	165	979	1	33

HOGS: PRODUCTION AND INCOME, WISCONSIN, 2014-2018

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
2014	143,496	150,723	122,464	136,313	630	136,943	310
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	173,518	177,969	112,135	122,706	683	123,389	325

SHEEP AND LAMBS: NUMBER ON FARMS, WISCONSIN, JANUARY 1, 2015-2019

Year	All sheep and lambs	Market	Breeding sheep and lambs		
			One year and over		Replacement lambs
			Ewes	Rams	
			1,000 head		
2015	77	12	50	3	12
2016	76	13	49	2	12
2017	76	13	48	3	12
2018	75	12	48	3	12
2019	75	12	48	3	12

MILK GOATS: NUMBER ON FARMS, BY CLASS, WISCONSIN, JANUARY 1, 2015-2019

Year	Milk goats and kids
	Head
2015	44,000
2016	48,000
2017	56,000
2018	67,000
2019	72,000

WOOL: PRODUCTION AND VALUE, WISCONSIN, 2014-2018

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
2014	50	7.0	350	0.75	263
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

COMMERCIAL LIVESTOCK SLAUGHTER: BY MONTHS, WISCONSIN, 2014-2018

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual 1/
BEEF CATTLE 2/													
Number (thousand head)													
2014	126.3	109.6	117.9	122.3	109.8	108.7	118.4	98.6	104.9	105.6	97.6	107.6	1,327.3
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
Average liveweight (pounds)													
2014	1,383	1,384	1,383	1,386	1,381	1,390	1,377	1,378	1,380	1,381	1,385	1,379	1,382
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
Total liveweight (million pounds)													
2014	173.6	150.8	162.1	168.6	150.9	150.1	162.0	135.2	143.9	145.1	134.5	147.6	1,824.4
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
CALVES 3/													
Number (thousand head)													
2014	7.2	6.2	6.4	6.8	6.0	5.7	6.0	5.4	6.0	6.4	5.3	6.5	73.9
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
Average liveweight (pounds)													
2014	454	457	461	464	460	466	461	459	459	458	470	472	462
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
Total liveweight (million pounds)													
2014	3.3	2.8	3.0	3.1	2.8	2.7	2.7	2.5	2.7	2.9	2.5	3.1	34.0
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
HOGS													
Number (thousand head)													
2014	49.6	49.3	56.4	55.5	49.5	50.1	53.8	47.8	49.4	53.4	44.3	53.9	613.1
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
Average liveweight (pounds)													
2014	442	442	442	441	450	460	452	445	456	459	451	453	449
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
Total liveweight (million pounds)													
2014	21.8	21.8	24.9	24.4	22.3	23.0	24.2	21.3	22.5	24.5	19.9	24.4	275.0
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

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, 2014-2018

Item	Unit	2014	2015	2016	2017	2018
Sales						
Trout 12" or longer						
Number sold	1,000 fish	410	440	(D)	390	370
Weight sold	1,000 pounds	403	414	(D)	378	357
Value of sales	1,000 dollars	1,394	1,399	(D)	1,569	1,314
Average price per pound	Dollars	3.46	3.38	(D)	4.15	3.68
Total sales (excluding eggs)	1,000 dollars	1,537	1,462	1,558	1,694	1,468
Losses						
Total number	1,000 fish	295	328	140	191	235
Total weight	1,000 pounds	118	66	40	90	54
Distribution for conservation & restoration						
Trout 12" or longer	1,000 fish	25	10	15	(D)	10
Trout 6" - 12"	1,000 fish	2,070	2,510	2,770	2,820	1,570
Trout 1" - 6"	1,000 fish	2,970	(D)	(D)	(D)	2,080
Total value	1,000 dollars	2,007	2,837	2,699	2,196	1,514

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

HONEY: PRODUCTION AND VALUE, WISCONSIN, 2014-2018

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
2014	53	54	2,862	238	6,812
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	276	6,334

MINK: FEMALES BRED, PELTS PRODUCED, AND VALUE, WISCONSIN, 2014-2018

Year	Females bred	Pelts produced	Average price 1/	Value of pelts
			Dollars	Million dollars
		Number		
2014	276,990	1,268,760	57.70	73.2
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	971,600	26.60	25.8

1/Average market price, U.S.

HONEY BEE COLONIES: WISCONSIN, 2018-2019 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 2018	21,000	29,000	4,600	16	2,800	1,600	6
Apr-Jun 2018	26,000	56,000	6,500	12	12,000	7,000	13
Jul-Sep 2018	61,000	69,000	10,000	14	2,400	3,800	6
Oct-Dec 2018	48,000	48,000	8,500	18	1,600	530	1
Jan-Mar 2019	16,500	17,000	3,700	22	580	100	1
Apr-Jun 2019 7/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(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 as of April 2019.

HONEY BEE COLONY HEALTH: WISCONSIN, 2018-2019 1/

Period	Varroa mites	Other pests and parasites 2/	Disease 3/	Pesticide	Other 4/	Unknown
	Percent					
Jan-Mar 2018	14.1	3.7	1.2	1.5	3.6	3.7
Apr-Jun 2018	32.1	16.9	18.3	27.1	29.5	0.8
Jul-Sep 2018	54.4	32.7	2.6	19.5	6.1	4.3
Oct-Dec 2018	29.9	28.3	1.5	24.5	7.6	5.2
Jan-Mar 2019	15.9	3.2	0.7	1.1	13.8	5.0
Apr-Jun 2019 5/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(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 as of April 2019.

**CHICKENS: NUMBER ON FARMS,
WISCONSIN, DECEMBER 1, 2014-2018**

Year	Total chickens 1/	Value per head	Total value	Total layers
	Thousands	Dollars	1,000 dollars	Thousands
2014	6,969	2.70	18,816	5,586
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

1/Excludes commercial broilers.

**EGGS: PRODUCTION AND VALUE,
WISCONSIN, 2014-2018 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
2014	5,104	1,449	284	107.6	129,900
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

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

EGG PRODUCTION: WISCONSIN, 2014-2018

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Million eggs											
2014	130.8	104.9	112.0	117.5	119.6	112.8	119.1	120.6	118.0	123.9	129.7	137.4
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	161.6

LAYERS: AVERAGE NUMBER, WISCONSIN, 2014-2018

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	1,000 head											
2014	5,231	5,048	4,997	5,027	4,957	4,810	4,892	5,028	5,121	5,221	5,415	5,587
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	6,880

**LAYERS: PRODUCTION AND VALUE,
WISCONSIN, 2014-2018 1/**

Year	Number of chickens		Price per pound	Value of sales
	Lost	Sold		
	1,000 head		Cents	1,000 dollars
2014	378	3,496	3.8	497
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

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

**BROILERS: PRODUCTION AND GROSS INCOME,
WISCONSIN, 2014-2018 1/**

Year	Production		Price per pound	Value of production
	Number	Quantity		
	1,000 head	1,000 pounds	Cents	1,000 dollars
2014	53,400	224,300	64	142,879
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

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:
Lynda Cain, Kevin Larson, Bob Samplawski, Carl Peterson

Front Row:
John Vanderhoof, Tony Zimmer, Shirley Conley

Not pictured:
Louise Lukes, Russell Miller, Luanne Rehse



Back Row:
Kermit Traska, Mark Solverson, Art Post Jr., Jeff Stauffacher

Front Row:
Dennis Boland, Janis Yoose, Rita Montgomery

Not pictured:
Morten Reser



Back Row:
Russ Sternweis, Nancy Lato, Judith Hasse, Steve Prissel

Front Row:
John Timura, Bonnie Swan, Keith Watson

Not pictured:
Joe Grabko, Dave Gunderson, John Jarvis, Terry Johannes,
Linda Overbey, Allen Stea, Roger Williams



Back row:
Diane Qualmann, Mary Bogenschneider, Vicki Coughlin,
Phyllis Westenberg

Front row:
Glen Sjoerdsma, Kim Seiler, Larry Bischoff, Archie Hafer,
Jon Kerr

Not pictured:
Dorothy Davidson



Back Row:
Laurie Groskopf, Fred Schmoock, Marie Graupner

Front Row:
Jim Dean, Ernie Anderson, Joe Pribek

Not pictured:
Ken Matyas



Beth Zondag-Traska, Linda Netzloff

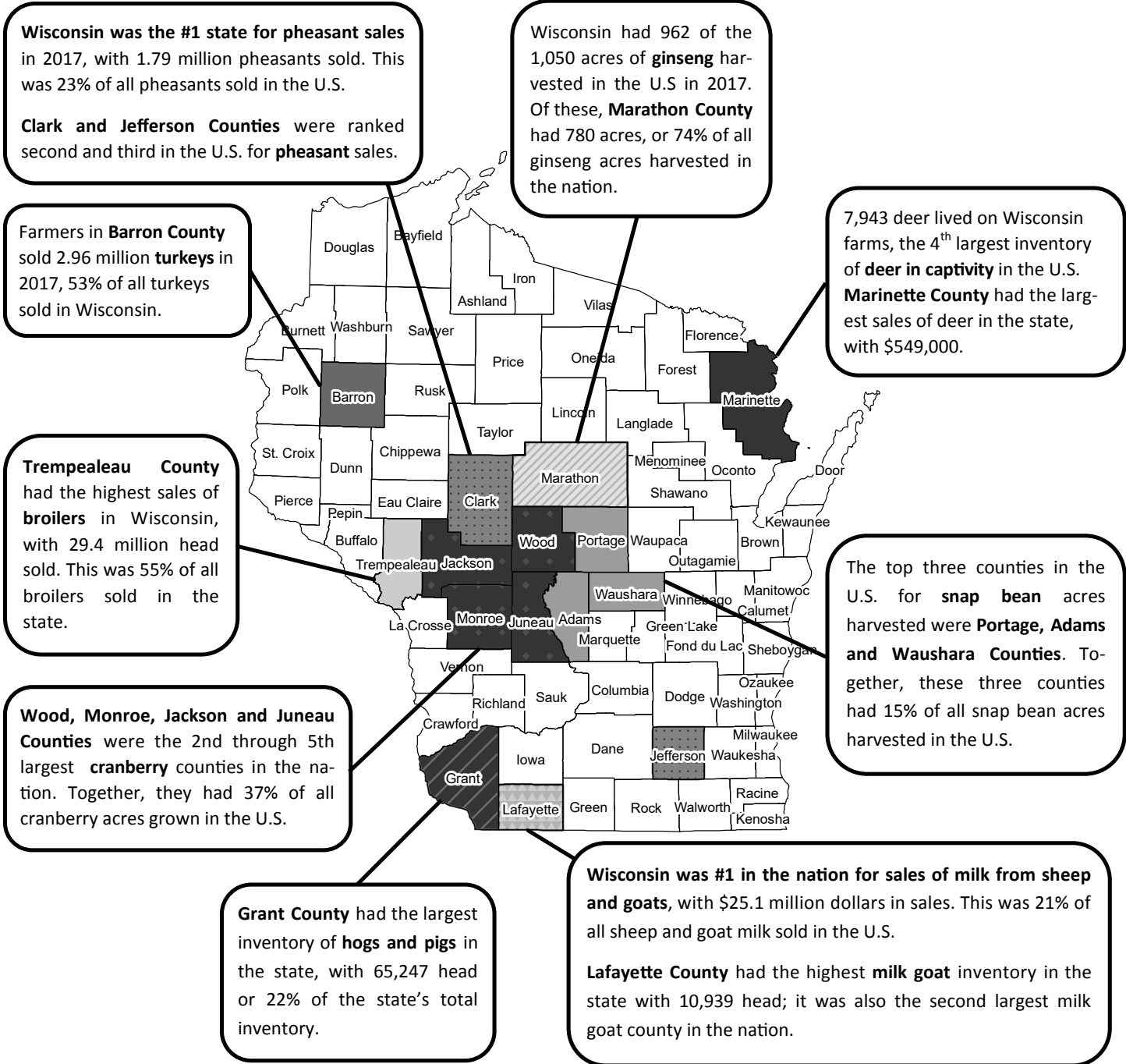


Marshall Brinkman, Debbie Taylor

2017 CENSUS OF AGRICULTURE

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

County Superlatives



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

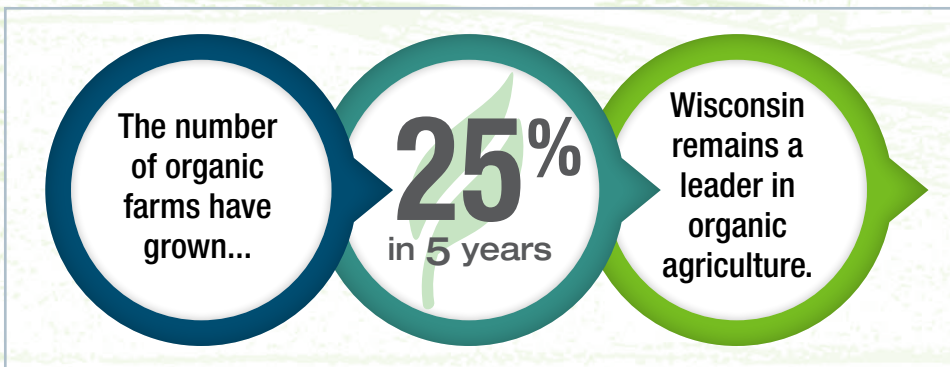
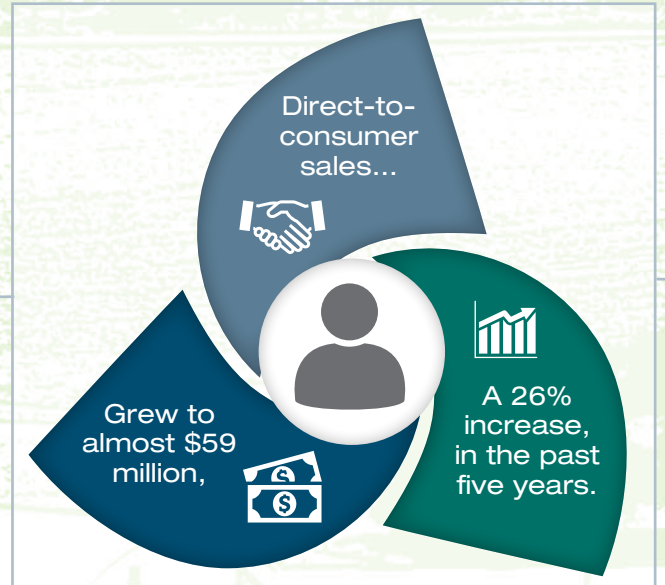
	Requires:
To make one pound of:	
Butter	21.2 pounds whole milk
Whole milk cheese	10.0 pounds whole milk
Evaporated milk	2.1 pounds whole milk
Condensed milk	2.3 pounds whole milk
Whole powdered milk	7.4 pounds whole milk
Powdered cream	13.5 pounds whole milk
Ice cream (1 gal.)	12.0 pounds whole milk <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

MARKETS



PRODUCTION

ENVIRONMENT

