



United States  
Department of  
Agriculture

National  
Agricultural  
Statistics  
Service



ISSN: 2470-9913

# Grain Crushings and Co- Products Production 2018 Summary

## March 2019

# USDA





## 2018 Grain Crushings and Co-Products Production

As part of the Current Agricultural Industrial Reports (CAIR) program, the 2018 Annual Summary of the Grain Crushings and Co-Products Production contains data and annual totals for January through December 2018.

**Total corn consumed** for alcohol for 2018 was 5.67 billion bushels, up 1 percent from 2017. Corn for beverage alcohol in 2018 totaled 35.6 million bushels, down 1 percent from 2017. Corn for fuel alcohol was 5.55 billion bushels in 2018, up 1 percent from 2017.

**Dry mill co-product production** of distillers dried grains with solubles (DDGS) was 23.7 million tons during 2018, up 2 percent from 2017. Distillers wet grains (DWG) 65 percent or more moisture was 16.2 million tons in 2018, up 1 percent from 2017. Distillers dried grain (DDG) was 4.61 million tons in 2018, down 12 percent from 2017.

**Wet mill corn gluten feed production** was 3.61 million tons during 2018, down 9 percent from 2017. Wet corn gluten feed 40 to 60 percent moisture was 3.11 million tons, down 13 percent from 2017.

**Dry and wet mill carbon dioxide captured** was 2.79 million tons in 2018, up 12 percent from 2017.

### Dry and Wet Mill, Corn Consumed – United States: 2018

Purpose	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018
	(1,000 bushels)						
<b>Consumed for alcohol production</b>							
Beverage alcohol .....	2,933	2,364	2,717	3,096	2,924	3,123	3,293
Fuel alcohol .....	476,129	433,622	472,912	445,323	470,404	462,740	481,320
Dry mill .....	431,474	393,318	428,916	405,732	430,324	421,463	438,081
Wet mill .....	44,655	40,304	43,996	39,591	40,080	41,277	43,239
Industrial alcohol .....	6,114	5,829	7,093	6,006	6,198	6,322	6,000
<b>Consumed for other purposes</b>							
Total wet mill products other than fuel .....	40,909	39,966	43,396	43,884	44,836	45,307	45,253

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### Dry Mill, Sorghum Consumed – United States: 2018

Purpose	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol .....	(D)	1,815	2,232	2,643	3,694	4,268	3,496

See footnote(s) at end of table.

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### Dry and Wet Mill, Co-products and Products Produced – United States: 2018

Co-products and products	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
<b>Condensed distillers solubles (CDS - syrup) .....</b>	147,329	152,279	145,808	135,883	137,929	140,033	127,335
<b>Corn oil (Corn Distillers Oil - CDO) .....</b>	164,325	164,531	148,490	144,813	159,718	160,521	166,181
<b>Distillers dried grains (DDG) .....</b>	406,648	371,026	417,190	372,741	392,070	374,274	390,080
<b>Distillers dried grains with solubles (DDGS) .....</b>	1,986,257	1,829,272	1,942,750	1,831,598	1,968,728	2,020,697	2,109,109
<b>Distillers wet grains (DWG)</b>							
65% or more moisture .....	1,443,327	1,264,798	1,413,641	1,394,684	1,397,439	1,308,000	1,330,483
<b>Modified distillers wet grains (DWG)</b>							
40% to 64% moisture .....	512,520	452,351	509,088	485,841	467,398	403,381	420,940
<b>Wet mill</b>							
Corn germ meal .....	62,669	58,351	58,359	60,089	62,146	61,405	60,800
Corn gluten feed .....	303,966	285,466	319,757	304,716	291,542	301,896	321,447
Corn gluten meal .....	91,519	90,924	97,157	91,427	92,487	93,357	93,113
Wet corn gluten feed							
40% to 60% moisture .....	275,284	254,749	276,350	254,638	280,979	262,168	263,139
<b>Dry and wet mill</b>							
Carbon dioxide captured .....	208,318	187,762	210,775	216,215	214,508	241,457	260,461

See footnote(s) at end of table.

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### Dry and Wet Mill, Corn Consumed – United States: 2018 (continued)

Purpose	August 2018	September 2018	October 2018	November 2018	December 2018	Total 2018
	(1,000 bushels)					
<b>Consumed for alcohol production</b>						
Beverage alcohol .....	3,559	2,808	3,291	2,941	2,547	35,596
Fuel alcohol .....	483,374	449,288	461,883	454,533	461,644	5,553,172
Dry mill .....	441,043	410,966	418,645	413,191	418,029	5,051,182
Wet mill .....	42,331	38,322	43,238	41,342	43,615	501,990
Industrial alcohol .....	7,167	7,068	6,754	5,782	7,135	77,468
<b>Consumed for other purposes</b>						
Total wet mill products other than fuel .....	44,916	41,573	40,869	40,248	40,865	512,022

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

### Dry Mill, Sorghum Consumed – United States: 2018 (continued)

Purpose	August 2018	September 2018	October 2018	November 2018	December 2018	Total 2018
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol .....	3,455	4,290	4,588	5,314	3,045	(D)

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

### Dry and Wet Mill, Co-products and Products Produced – United States: 2018 (continued)

Co-products and products	August 2018	September 2018	October 2018	November 2018	December 2018	Total 2018
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
<b>Dry mill</b>						
Condensed distillers solubles (CDS - syrup) .....	134,308	131,317	124,404	128,805	134,094	1,639,524
Corn oil (Corn Distillers Oil - CDO) .....	166,106	155,284	158,712	154,778	152,918	1,896,377
Distillers dried grains (DDG) .....	394,908	376,510	378,003	376,137	357,196	4,606,783
Distillers dried grains with solubles (DDGS) .....	2,185,674	1,951,327	1,979,896	1,930,259	1,924,199	23,659,766
Distillers wet grains (DWG) 65% or more moisture .....	1,313,014	1,295,724	1,347,600	1,314,662	1,396,462	16,219,834
Modified distillers wet grains (DWG) 40% to 64% moisture .....	402,346	408,708	456,672	472,972	472,469	5,464,686
<b>Wet mill</b>						
Corn germ meal .....	55,012	59,668	61,021	54,967	60,677	715,164
Corn gluten feed .....	325,547	293,548	282,713	285,362	290,178	3,606,138
Corn gluten meal .....	91,947	83,262	90,899	85,510	88,638	1,090,240
Wet corn gluten feed 40% to 60% moisture .....	256,268	229,183	245,681	257,003	256,146	3,111,588
<b>Dry and wet mill</b>						
Carbon dioxide captured .....	282,872	260,179	252,895	222,757	228,754	2,786,953

## Statistical Methodology

**Survey Procedures:** *Grain Crushings and Co-Products Production* is part of the Current Agricultural Industrial Reports (CAIR) program. CAIR reports are administered under NASS's Census of Agriculture program. Response to CAIR surveys are required by law (Title 7, U.S. Code). Data are collected from all known mills that produce ethanol.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of ethanol production in 2014. During the operation profile, facilities that met the survey criteria were asked for the nameplate production capacity. The operation profile also documented the manner in which the firm will report. A firm headquarters can report for all milling locations or each location can report separately.

In the Dry Mill Producers and Wet Mill Producers survey questionnaires, mills are asked for previous calendar month data on feedstocks consumed, products and co-products produced. Mills are mailed questionnaires with the options of completing the survey by mail or by Electronic Data Reporting (EDR). For surveys not received in a reasonable amount of time, telephone follow-up is conducted.

**Estimating Procedures:** Imputation is done for operations with non-response by using historical data and current data relationships. Data for reporting firms are added to estimates for non-reporting firms to obtain National totals.

**Revision Policy:** Data are revised the following month based on late reports or corrected data. Final figures are published in the annual summary of the following year.

**Reliability:** Approximately 130 reports are received each month which represent about 90 percent of total capacity. Monthly data can vary due to different firms reporting month to month. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and in processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

## Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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Chris Hawthorn – Corn, Flaxseed, Proso Millet.....	(202) 720-9526
James Johanson – County Estimates, Hay .....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans.....	(202) 690-3234
Jannety Mosley – Crop Weather, Barley .....	(202) 720-7621
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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist [notifications@usda-esmis.library.cornell.edu](mailto:notifications@usda-esmis.library.cornell.edu) in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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