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Grain Crushings and Co- Products Production 2017 Summary

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2017 Grain Crushings and Co-Products Production

As part of the Current Agricultural Industrial Reports (CAIR) program, the 2017 Annual Summary of the Grain Crushings and Co-Products Production contains data and annual totals for January through December 2017.

Total corn consumed for alcohol for 2017 was 5.61 billion bushels, up 4 percent from 2016. Corn for beverage alcohol in 2017 totaled 35.8 million bushels, up 5 percent from 2016. Corn for fuel alcohol was 5.49 billion bushels in 2017, up 4 percent from 2016.

Dry mill co-product production of distillers dried grains with solubles (DDGS) was 23.2 million tons during 2017, up slightly from 2016. Distillers wet grains (DWG) 65 percent or more moisture was 16.1 million tons in 2017, up 5 percent from 2016. Distillers dried grain (DDG) was 5.25 million tons in 2016, up 8 percent from 2016.

Wet mill corn gluten feed production was 3.98 million tons during 2017, up 1 percent from 2016. Wet corn gluten feed 40 to 60 percent moisture was 3.59 million tons, down 2 percent from 2016.

Dry and wet mill carbon dioxide captured was 2.49 million tons in 2017, down 1 percent from 2016.

Dry and Wet Mill, Corn Consumed – United States: 2017

Purpose	January 2017	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017
	(1,000 bushels)						
Consumed for alcohol production							
Beverage alcohol	2,424	3,080	2,662	2,987	3,077	2,769	3,073
Fuel alcohol	473,641	423,574	460,383	432,752	452,966	436,651	454,757
Dry mill	424,269	382,460	413,733	385,608	406,016	390,607	412,276
Wet mill	49,372	41,114	46,650	47,144	46,950	46,044	42,481
Industrial alcohol	7,615	7,045	6,931	7,218	6,463	6,449	6,183
Consumed for other purposes							
Total wet mill products other than fuel	43,436	39,138	44,561	44,780	46,462	44,000	45,535

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Dry Mill, Sorghum Consumed – United States: 2017

Purpose	January 2017	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol	6,556	6,450	7,055	5,497	6,563	4,861	5,332

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Dry and Wet Mill, Co-products and Products Produced – United States: 2017

Co-products and products	January 2017	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Condensed distillers solubles (CDS - syrup)	132,952	115,697	141,951	118,242	146,225	125,677	142,865
Corn oil (Corn Distillers Oil - CDO)	146,305	135,060	143,260	132,804	148,544	146,584	157,669
Distillers dried grains (DDG)	430,929	373,099	425,213	437,914	435,640	435,900	462,098
Distillers dried grains with solubles (DDGS)	2,073,740	1,891,804	1,997,388	1,752,270	1,906,829	1,851,702	1,930,770
Distillers wet grains (DWG)							
65% or more moisture	1,392,605	1,224,738	1,391,225	1,301,416	1,377,061	1,280,610	1,342,934
Modified distillers wet grains (DWG)							
40% to 64% moisture	444,897	405,666	457,407	431,983	460,432	431,035	423,728
Wet mill							
Corn germ meal	66,031	57,560	59,425	60,519	63,302	59,384	57,952
Corn gluten feed	347,389	269,325	355,194	346,377	341,167	341,215	328,031
Corn gluten meal	90,593	78,780	89,491	90,133	91,895	86,806	85,087
Wet corn gluten feed							
40% to 60% moisture	315,420	292,526	307,814	283,835	313,876	297,780	272,165
Dry and wet mill							
Carbon dioxide captured	192,585	176,265	207,016	200,431	201,035	217,863	207,049

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Dry and Wet Mill, Corn Consumed – United States: 2017 (continued)

Purpose	August 2017	September 2017	October 2017	November 2017	December 2017	Total 2017
	(1,000 bushels)					
Consumed for alcohol production						
Beverage alcohol	3,550	3,543	2,974	3,447	2,249	35,835
Fuel alcohol	480,154	445,534	470,091	475,665	487,713	5,493,881
Dry mill	431,445	399,974	419,009	429,123	439,929	4,934,449
Wet mill	48,709	45,560	51,082	46,542	47,784	559,432
Industrial alcohol	5,894	5,557	5,368	5,652	6,844	77,219
Consumed for other purposes						
Total wet mill products other than fuel	44,642	43,393	44,206	40,488	41,253	521,894

Dry Mill, Sorghum Consumed – United States: 2017 (continued)

Purpose	August 2017	September 2017	October 2017	November 2017	December 2017	Total 2017
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol	3,733	2,391	2,419	2,867	2,295	56,019

Dry and Wet Mill, Co-products and Products Produced – United States: 2017 (continued)

Co-products and products	August 2017	September 2017	October 2017	November 2017	December 2017	Total 2017
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Dry mill						
Condensed distillers solubles (CDS - syrup)	133,909	135,061	136,200	133,982	124,098	1,586,859
Corn oil (Corn Distillers Oil - CDO)	160,316	149,792	169,314	175,219	174,078	1,838,945
Distillers dried grains (DDG)	472,705	454,220	449,199	430,224	442,427	5,249,568
Distillers dried grains with solubles (DDGS)	2,062,285	1,854,144	1,961,763	1,996,869	1,967,745	23,247,309
Distillers wet grains (DWG) 65% or more moisture	1,354,542	1,283,173	1,335,166	1,375,547	1,431,323	16,090,340
Modified distillers wet grains (DWG) 40% to 64% moisture	431,072	419,900	443,221	476,566	511,763	5,337,670
Wet mill						
Corn germ meal	90,005	85,798	90,646	95,999	71,732	858,353
Corn gluten feed	345,196	321,506	353,394	311,957	318,694	3,979,445
Corn gluten meal	92,823	87,322	93,463	90,366	91,092	1,067,851
Wet corn gluten feed 40% to 60% moisture	313,340	279,654	302,618	303,209	309,765	3,592,002
Dry and wet mill						
Carbon dioxide captured	227,696	216,846	225,246	207,728	209,638	2,489,398

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 Environmental, Economics, and Demographics Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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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.

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