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Grain Crashings and Co- Products Production 2022 Summary

September 2023

USDA



2022 Grain Crushings and Co-Products Production

As part of the Current Agricultural Industrial Reports (CAIR) program, the 2022 Annual Summary of the Grain Crushings and Co-Products Production contains data and annual totals for January through December 2022.

Total corn consumed for alcohol for 2022 was 5.34 billion bushels, up 1 percent from 2021. Corn for beverage alcohol in 2022 totaled 49.8 million bushels, up 14 percent from 2021. Corn for fuel alcohol was 5.21 billion bushels in 2022, up 1 percent from 2021.

Dry mill co-product production of distillers dried grains with solubles (DDGS) was 21.6 million tons during 2022, down 2 percent from 2021. Distillers wet grains (DWG) 65 percent or more moisture was 16.1 million tons in 2022, up 16 percent from 2021. Distillers dried grain (DDG) was 4.07 million tons in 2022, down 2 percent from 2021.

Wet mill corn gluten feed production was 3.16 million tons during 2022, down 6 percent from 2021. Wet corn gluten feed 40 to 60 percent moisture was 2.45 million tons, down 1 percent from 2021.

Dry and wet mill carbon dioxide captured was 2.77 million tons in 2022, up 3 percent from 2021.

Dry and Wet Mill, Corn Consumed – United States: 2022

Purpose	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Consumed for alcohol production							
Beverage alcohol	3,787	4,061	4,330	3,971	4,646	3,667	3,399
Fuel alcohol	462,345	404,555	451,390	414,997	445,899	443,934	445,741
Dry mill	426,637	376,934	417,783	386,001	412,026	407,589	413,629
Wet mill	35,708	27,621	33,607	28,996	33,873	36,345	32,112
Industrial alcohol	8,238	7,119	8,946	8,529	7,587	5,183	7,188
Consumed for other purposes							
Total wet mill products other than fuel	40,836	38,464	42,968	44,134	45,016	41,545	43,481

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Dry Mill, Sorghum Consumed – United States: 2022

Purpose	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnote(s) at end of table.

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Dry and Wet Mill, Co-products and Products Produced – United States: 2022

Co-products and products	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Dry mill							
Condensed distillers solubles (CDS - syrup)	100,263	103,037	103,439	106,992	105,078	109,555	94,830
Corn oil (Corn Distillers Oil - CDO)	175,110	154,933	174,657	163,024	177,158	184,350	187,853
Distillers dried grains (DDG)	356,957	303,788	372,813	328,691	322,855	346,591	334,122
Distillers dried grains with solubles (DDGS)	1,929,115	1,693,253	1,877,338	1,704,698	1,896,665	1,918,611	1,934,355
Distillers wet grains (DWG) 65% or more moisture	1,425,897	1,293,312	1,382,790	1,321,275	1,328,402	1,283,359	1,279,210
Modified distillers wet grains (MDWG) 40% to 64% moisture	535,036	492,839	562,599	517,270	468,772	494,792	495,386
Wet mill							
Corn germ meal	53,504	48,016	61,909	59,351	62,882	58,667	57,800
Corn gluten feed	271,890	237,555	250,258	260,710	294,367	287,211	271,334
Corn gluten meal	102,711	78,040	109,130	102,677	112,099	91,720	105,796
Wet corn gluten feed 40% to 60% moisture	197,175	190,577	226,860	221,071	205,508	202,951	221,764
Dry and wet mill							
Carbon dioxide captured ¹	229,006	227,188	249,346	220,545	241,519	241,628	240,189

See footnote(s) at end of table.

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Dry and Wet Mill, Corn Consumed – United States: 2022 (continued)

Purpose	August 2022	September 2022	October 2022	November 2022	December 2022	Total 2022
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Consumed for alcohol production						
Beverage alcohol	4,012	4,474	4,585	4,417	4,448	49,797
Fuel alcohol	430,602	383,273	448,616	450,535	425,788	5,207,675
Dry mill	402,322	355,294	414,444	415,857	391,819	4,820,335
Wet mill	28,280	27,979	34,172	34,678	33,969	387,340
Industrial alcohol	7,121	6,411	6,898	5,638	5,988	84,846
Consumed for other purposes						
Total wet mill products other than fuel	41,023	40,720	44,477	40,160	38,299	501,123

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

Dry Mill, Sorghum Consumed – United States: 2022 (continued)

Purpose	August 2022	September 2022	October 2022	November 2022	December 2022	Total 2022
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol	(D)	(D)	(D)	(D)	(D)	(D)

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

Dry and Wet Mill, Co-products and Products Produced – United States: 2022 (continued)

Co-products and products	August 2022	September 2022	October 2022	November 2022	December 2022	Total 2022
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Dry mill						
Condensed distillers solubles (CDS - syrup)	88,329	101,728	102,605	98,182	96,964	1,211,002
Corn oil (Corn Distillers Oil - CDO)	180,062	159,873	186,770	186,644	174,416	2,104,850
Distillers dried grains (DDG)	335,885	281,984	388,993	381,114	317,504	4,071,297
Distillers dried grains with solubles (DDGS)	1,867,735	1,613,088	1,745,419	1,778,479	1,679,600	21,638,356
Distillers wet grains (DWG) 65% or more moisture	1,322,744	1,249,996	1,397,867	1,461,021	1,363,421	16,109,294
Modified distillers wet grains (MDWG) 40% to 64% moisture	544,168	498,142	490,060	558,128	576,406	6,233,598
Wet mill						
Corn germ meal	61,012	48,056	56,209	53,561	48,546	669,513
Corn gluten feed	248,856	238,468	268,672	277,379	252,788	3,159,488
Corn gluten meal	102,538	101,787	116,270	112,372	99,585	1,234,725
Wet corn gluten feed 40% to 60% moisture	189,203	192,999	208,273	203,891	188,584	2,448,856
Dry and wet mill						
Carbon dioxide captured ¹	247,075	215,487	220,219	227,042	213,799	2,773,044

¹ Total may not add due to rounding.

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@usda.gov

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Natasha Bruton – Barley, Cotton System Consumption, and Stocks, Grain Crushings.....	(202) 690-1042
David Colwell – Fats and Oils, Flour Milling Products.....	(202) 720-8800
Michelle Harder –County Estimates, Hay	(202) 690-8533
James Johanson – Rye, Wheat	(202) 720-8068
Greg Lemmons – Corn, Flaxseed, Proso Millet	(202) 720-9526
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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 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@usda.gov.

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