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# Grain Crushings and Co- Products Production 2020 Summary

## March 2021

# USDA





## 2020 Grain Crushings and Co-Products Production

As part of the Current Agricultural Industrial Reports (CAIR) program, the 2020 Annual Summary of the Grain Crushings and Co-Products Production contains data and annual totals for January through December 2020.

**Total corn consumed** for alcohol for 2020 was 4.92 billion bushels, down 10 percent from 2019. Corn for beverage alcohol in 2020 totaled 42.4 million bushels, up 3 percent from 2019. Corn for fuel alcohol was 4.78 billion bushels in 2020, down 10 percent from 2019.

**Dry mill co-product production** of distillers dried grains with solubles (DDGS) was 20.2 million tons during 2020, down 11 percent from 2019. Distillers wet grains (DWG) 65 percent or more moisture was 12.4 million tons in 2020, down 21 percent from 2019. Distillers dried grain (DDG) was 3.79 million tons in 2020, down 12 percent from 2019.

**Wet mill corn gluten feed production** was 3.45 million tons during 2020, down 1 percent from 2019. Wet corn gluten feed 40 to 60 percent moisture was 2.60 million tons, down 12 percent from 2019.

**Dry and wet mill carbon dioxide captured** was 2.28 million tons in 2020, down 21 percent from 2019.

### Dry and Wet Mill, Corn Consumed – United States: 2020

Purpose	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020
	(1,000 bushels)						
<b>Consumed for alcohol production</b>							
Beverage alcohol .....	2,699	2,617	4,045	4,137	3,992	3,649	3,247
Fuel alcohol .....	469,463	433,962	411,812	244,983	301,174	379,246	424,251
Dry mill .....	424,075	391,617	372,864	214,267	257,634	338,741	380,794
Wet mill .....	45,388	42,345	38,948	30,716	43,540	40,505	43,457
Industrial alcohol .....	6,776	6,809	7,751	11,753	12,281	9,515	9,010
<b>Consumed for other purposes</b>							
Total wet mill products other than fuel .....	40,462	38,197	43,008	38,088	37,618	39,715	40,689

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### Dry Mill, Sorghum Consumed – United States: 2020

Purpose	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol .....	4,967	5,857	4,640	2,716	2,047	1,286	926

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### Dry and Wet Mill, Co-products and Products Produced – United States: 2020

Co-products and products	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
<b>Condensed distillers solubles (CDS - syrup) .....</b>	121,740	102,244	99,381	78,229	80,971	84,914	86,911
<b>Corn oil (Corn Distillers Oil - CDO) .....</b>	151,877	149,000	149,066	89,174	105,231	136,613	150,668
<b>Distillers dried grains (DDG) .....</b>	358,478	328,113	317,411	173,465	205,750	268,201	335,521
<b>Distillers dried grains with solubles (DDGS) .....</b>	1,950,153	1,817,583	1,655,147	1,013,914	1,239,579	1,664,131	1,865,131
<b>Distillers wet grains (DWG)</b>							
65% or more moisture .....	1,411,812	1,277,774	1,273,180	712,857	739,106	875,894	917,181
<b>Modified distillers wet grains (DWG)</b>							
40% to 64% moisture .....	476,126	469,444	478,416	274,285	242,365	309,981	375,041
<b>Wet mill</b>							
Corn germ meal .....	68,154	63,305	69,960	51,929	64,200	65,113	65,831
Corn gluten feed .....	308,081	281,160	291,861	231,145	291,064	294,074	305,196
Corn gluten meal .....	93,097	88,021	92,269	76,897	91,013	90,257	93,578
Wet corn gluten feed							
40% to 60% moisture .....	234,181	217,691	220,423	184,876	211,741	221,935	234,407
<b>Dry and wet mill</b>							
Carbon dioxide captured .....	216,915	211,775	218,593	162,926	149,453	184,413	190,869

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**Dry and Wet Mill, Corn Consumed – United States: 2020 (continued)**

Purpose	August 2020	September 2020	October 2020	November 2020	December 2020	Total 2020
	(1,000 bushels)					
<b>Consumed for alcohol production</b>						
Beverage alcohol .....	3,201	3,862	3,301	3,952	3,716	42,418
Fuel alcohol .....	411,109	402,407	434,167	431,661	431,731	4,775,966
Dry mill .....	372,657	363,353	391,203	390,774	388,228	4,286,207
Wet mill .....	38,452	39,054	42,964	40,887	43,503	489,759
Industrial alcohol .....	8,904	6,405	7,053	5,911	6,331	98,499
<b>Consumed for other purposes</b>						
Total wet mill products other than fuel .....	38,750	38,753	38,286	39,121	37,948	470,635

**Dry Mill, Sorghum Consumed – United States: 2020 (continued)**

Purpose	August 2020	September 2020	October 2020	November 2020	December 2020	Total 2020
	(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)	24,386

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

**Dry and Wet Mill, Co-products and Products Produced – United States: 2020 (continued)**

Co-products and products	August 2020	September 2020	October 2020	November 2020	December 2020	Total 2020
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
<b>Dry mill</b>						
Condensed distillers solubles (CDS - syrup) .....	85,241	83,741	87,708	73,803	74,497	1,059,380
Corn oil (Corn Distillers Oil - CDO) .....	146,652	141,614	161,937	166,596	160,259	1,708,687
Distillers dried grains (DDG) .....	342,654	341,156	377,960	372,899	364,532	3,786,140
Distillers dried grains with solubles (DDGS) .....	1,806,571	1,746,328	1,823,621	1,794,035	1,787,124	20,163,317
Distillers wet grains (DWG) 65% or more moisture .....	955,718	986,698	1,039,661	1,106,887	1,094,599	12,391,367
Modified distillers wet grains (DWG) 40% to 64% moisture .....	373,733	386,470	409,030	421,779	435,648	4,652,318
<b>Wet mill</b>						
Corn germ meal .....	53,576	50,401	43,242	53,825	47,715	697,251
Corn gluten feed .....	260,453	284,409	293,793	295,358	309,298	3,445,892
Corn gluten meal .....	86,406	85,348	108,844	108,624	113,754	1,128,108
Wet corn gluten feed 40% to 60% moisture .....	252,006	224,860	213,798	200,831	185,187	2,601,936
<b>Dry and wet mill</b>						
Carbon dioxide captured .....	194,504	185,898	197,743	185,219	185,563	2,283,871

## 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](mailto:nass@usda.gov)

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David Colwell – Current Agricultural Industrial Reports .....	(202) 720-8800
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James Johanson – Barley, County Estimates, Hay .....	(202) 690-8533
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 agencies 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@usda.gov](mailto:nass@usda.gov).

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