



# Grain Crushings and Co-Products Production

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## Highlights

**November 2016** contained 30 days.

**December 2016** contained 31 days.

**Total corn consumed** for alcohol and other uses was 529 million bushels in December 2016, up 5 percent from December 2015. December 2016 usage included 91.8 percent for alcohol and 8.2 percent for other purposes. Corn total corn consumed for beverage alcohol totaled 2.60 million bushels, down 23 percent from November 2016 and down 8 percent from December 2015. Corn for fuel alcohol, at

477 million bushels, was up 6 percent from November 2016 and up 6 percent from December 2015. Corn consumed in December 2016 for dry milling fuel production and wet milling fuel production was 89.7 percent and 10.3 percent respectively.

**Dry mill co-product production** of distillers dried grains with solubles (DDGS) was 2.10 million tons during December 2016, up 5 percent from November 2016 and up 8 percent from December 2015. Distillers wet grains (DWG) 65 percent or more moisture was 1.43 million tons in December 2016, up 12 percent from November 2016 and up 2 percent from December 2015.

**Wet mill corn gluten feed production** was 349 thousand tons during December 2016, up 13 percent from November 2016 and up 3 percent from December 2015. Wet corn gluten feed 40 to 60 percent moisture was 279 thousand tons in December 2016, down 15 percent from November 2016 and down 9 percent from December 2015.

## Dry and Wet Mill, Corn Consumed – United States: December 2016 with Comparisons

| Purpose                                       | December 2015   | November 2016   | December 2016   |
|---|-----------------|-----------------|-----------------|
|   | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| <b>Consumed for alcohol production</b>        |                 |                 |                 |
| Beverage alcohol .....                        | 2,807           | 3,361           | 2,595           |
| Fuel alcohol .....                            | 451,306         | 451,660         | 476,934         |
| Dry mill .....                                | 401,242         | 407,479         | 427,830         |
| Wet mill .....                                | 50,064          | 44,181          | 49,104          |
| Industrial alcohol .....                      | 6,479           | 6,489           | 6,108           |
| <b>Consumed for other purposes</b>            |                 |                 |                 |
| Total wet mill products other than fuel ..... | 41,724          | (D)             | 43,272          |

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

## Dry Mill, Sorghum Consumed – United States: December 2016 with Comparisons

| Purpose                                | December 2015 | November 2016 | December 2016 |
|--|---------------|---------------|---------------|
|  | (1,000 cwt)   | (1,000 cwt)   | (1,000 cwt)   |
| <b>Consumed for alcohol production</b> |               |               |               |
| Fuel alcohol .....                     | 7,616         | 4,914         | 5,422         |

## Dry and Wet Mill, Co-products and Products Produced – United States: December 2016 with Comparisons

| Co-products and products                                       | December 2015 | November 2016 | December 2016 |
|--|---------------|---------------|---------------|
|  | (tons)        | (tons)        | (tons)        |
| <b>Dry mill</b>  |               |               |               |
| Condensed distillers solubles (CDS - syrup) .....              | 134,196       | 126,968       | 138,747       |
| Corn oil (Corn Distillers Oil - CDO) .....                     | 130,652       | 147,336       | 143,942       |
| Distillers dried grains (DDG) .....                            | 423,632       | 423,892       | 442,824       |
| Distillers dried grains with solubles (DDGS) .....             | 1,941,708     | 1,995,252     | 2,096,513     |
| Distillers wet grains (DWG) 65% or more moisture .....         | 1,398,280     | 1,277,248     | 1,428,635     |
| Modified distillers wet grains (DWG) 40% to 64% moisture ..... | 442,448       | 389,038       | 434,337       |
| <b>Wet mill</b>  |               |               |               |
| Corn germ meal .....   | 69,669        | 63,635        | 63,600        |
| Corn gluten feed .....   | 340,460       | 309,305       | 349,226       |
| Corn gluten meal .....   | 88,921        | 84,092        | 89,092        |
| Corn oil .....   | 57,578        | 49,393        | 58,248        |
| Wet corn gluten feed 40% to 60% moisture .....                 | 307,874       | 326,550       | 279,044       |
| <b>Dry and wet mill</b>  |               |               |               |
| Carbon dioxide captured .....                                  | 211,352       | 213,244       | 201,534       |

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

|   |                |
|---|----------------|
| Jody McDaniel, Chief, Environmental, Economics, and Demographics Branch ..... | (202) 720-6146 |
| Scott Shimmin, Head, Environmental and Demographics Section.....              | (202) 720-0684 |
| Stephanie Brennan – Field Crops Chemical Use .....                            | (202) 690-0392 |
| Natasha Bruton – Current Agricultural Industrial Reports.....                 | (202) 720-7644 |
| Courtney Charles– Current Agricultural Industrial Reports.....                | (202) 690-3226 |
| Ryan Cowen - Farms, Land in Farms, Census of Agriculture.....                 | (202) 690-3233 |
| Doug Farmer – Vegetable Chemical Use.....                                     | (202) 720-7492 |
| Virginia Harris – Census of Agriculture.....                                  | (502) 582-5293 |
| Megan Lipke – Census of Agriculture .....                                     | (202) 720-5881 |
| Dominique Sims – Census of Agriculture.....                                   | (202) 690-4752 |
| Theresa Varner – Farm Labor, Chemical Use.....                                | (202) 690-2284 |

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