



# Flour Milling Products

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## Highlights

**First Quarter 2021**, January through March, contained 90 days.

**Fourth Quarter 2021**, October through December, contained 92 days.

**First Quarter 2022**, January through March, contained 90 days.

**All wheat** ground for flour during the first quarter 2022 was 230 million bushels, down 2 percent from the fourth quarter 2021 grind of 235 million bushels but up 3 percent from the first quarter 2021 grind of 225 million bushels. First quarter 2022 total flour production was 106 million hundredweight, down 1 percent from the fourth quarter 2021 but up 3 percent from the first quarter 2021. Whole wheat flour production, at 5.25 million hundredweight during the first quarter 2022, accounted for 5 percent of the total flour production. Millfeed production from wheat in the first quarter 2022 was 1.67 million tons. The daily 24-hour milling capacity of wheat flour during the first quarter 2022 was 1.60 million hundredweight.

**Durum wheat** ground for flour and semolina production during the first quarter of 2022 totaled 16.0 million bushels, up 1 percent from the fourth quarter 2021 but down 7 percent from the first quarter 2021. First quarter 2022 durum flour and semolina production was 7.62 million hundredweight, up 1 percent from the fourth quarter 2021 but down 6 percent from the first quarter 2021. Whole wheat durum flour and semolina production was 95,000 hundredweight, down 47 percent from 179,000 hundredweight in the fourth quarter 2021 and down 34 percent from 143,000 hundredweight from the first quarter 2021. First quarter durum wheat millfeed production was 108,539 tons and the daily 24-hour milling capacity for durum and semolina production was 131,730 hundredweight.

**Rye** ground for flour during the first quarter of 2022 was 441,000 bushels, down 2 percent from the fourth quarter 2021 and down 4 percent from the first quarter 2021. Rye flour production during the first quarter of 2022 was 200,000 hundredweight, compared to 207,000 hundredweight in the previous quarter and 209,000 hundredweight in the same quarter for the previous year. The daily 24-hour milling capacity for rye milling was 9,655 hundredweight for the first quarter 2022.

**All Wheat Ground, Flour Production, and Capacity – Regions and United States:  
January 2022 - March 2022 with Comparisons**

| Region  | Wheat ground for flour<br>(1,000 bushels) | Wheat flour production<br>(1,000 cwt) | Daily (24-hour) capacity<br>(cwt) |
|---|---|---------------------------------------|-----------------------------------|
| <b>California</b>                                   |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 15,978                                    | 7,415                                 | 108,600                           |
| October 2021 - December 2021 .....                  | 16,557                                    | 7,608                                 | 108,600                           |
| January 2022 - March 2022 .....                     | 16,539                                    | 7,644                                 | 108,600                           |
| <b>Colorado and Oklahoma</b>                        |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 7,311                                     | 3,475                                 | 56,780                            |
| October 2021 - December 2021 .....                  | 7,987                                     | 3,854                                 | 55,780                            |
| January 2022 - March 2022 .....                     | 8,011                                     | 3,773                                 | 55,780                            |
| <b>Florida, Georgia, and South Carolina</b>         |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 8,830                                     | 4,038                                 | 59,000                            |
| October 2021 - December 2021 .....                  | 9,160                                     | 4,136                                 | 59,000                            |
| January 2022 - March 2022 .....                     | 9,445                                     | 4,311                                 | 76,500                            |
| <b>Idaho, Montana, Oregon, Utah, and Washington</b> |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 15,887                                    | 7,439                                 | 125,387                           |
| October 2021 - December 2021 .....                  | 16,435                                    | 7,478                                 | 125,387                           |
| January 2022 - March 2022 .....                     | 16,506                                    | 7,719                                 | 125,387                           |
| <b>Illinois, Indiana, and Wisconsin</b>             |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 25,011                                    | 11,772                                | 163,252                           |
| October 2021 - December 2021 .....                  | 25,223                                    | 11,807                                | 163,252                           |
| January 2022 - March 2022 .....                     | 25,287                                    | 11,865                                | 163,252                           |
| <b>Iowa and Nebraska</b>                            |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 8,267                                     | 3,737                                 | 55,894                            |
| October 2021 - December 2021 .....                  | 9,522                                     | 4,304                                 | 55,894                            |
| January 2022 - March 2022 .....                     | 9,532                                     | 4,398                                 | 55,894                            |
| <b>Kansas</b>                                       |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 14,751                                    | 6,891                                 | 111,132                           |
| October 2021 - December 2021 .....                  | 16,101                                    | 7,519                                 | 112,300                           |
| January 2022 - March 2022 .....                     | 15,693                                    | 7,395                                 | 112,300                           |
| <b>Kentucky and Tennessee</b>                       |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 8,515                                     | 3,942                                 | 57,000                            |
| October 2021 - December 2021 .....                  | 9,183                                     | 4,116                                 | 57,000                            |
| January 2022 - March 2022 .....                     | 9,074                                     | 4,173                                 | 57,000                            |
| <b>Maryland and Virginia</b>                        |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 6,457                                     | 2,914                                 | 48,644                            |
| October 2021 - December 2021 .....                  | 6,493                                     | 2,953                                 | 48,644                            |
| January 2022 - March 2022 .....                     | 6,861                                     | 3,121                                 | 48,644                            |
| <b>Michigan</b>                                     |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 5,329                                     | 2,400                                 | 39,700                            |
| October 2021 - December 2021 .....                  | 6,065                                     | 2,716                                 | 39,700                            |
| January 2022 - March 2022 .....                     | 5,696                                     | 2,544                                 | 39,700                            |
| <b>Minnesota</b>                                    |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 11,035                                    | 5,162                                 | 80,120                            |
| October 2021 - December 2021 .....                  | 11,643                                    | 5,461                                 | 80,120                            |
| January 2022 - March 2022 .....                     | 10,853                                    | 5,100                                 | 80,120                            |
| <b>Missouri</b>                                     |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 13,087                                    | 6,049                                 | 92,800                            |
| October 2021 - December 2021 .....                  | 12,595                                    | 5,825                                 | 92,800                            |
| January 2022 - March 2022 .....                     | 12,458                                    | 5,598                                 | 92,800                            |
| <b>New Jersey and New York</b>                      |   |                                       |                                   |
| January 2021 - March 2021 .....                     | 12,754                                    | 5,882                                 | 101,450                           |
| October 2021 - December 2021 .....                  | 14,228                                    | 6,551                                 | 101,450                           |
| January 2022 - March 2022 .....                     | 13,528                                    | 6,238                                 | 101,450                           |

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**All Wheat Ground, Flour Production, and Capacity – Regions and United States:  
January 2022 - March 2022 with Comparisons (continued)**

| Region                            | Wheat ground for flour | Wheat flour production | Daily (24-hour) capacity |
|-----------------------------------|------------------------|------------------------|--------------------------|
|                                   | (1,000 bushels)        | (1,000 cwt)            | (cwt)                    |
| <b>North Carolina</b>             |                        |                        |                          |
| January 2021 - March 2021.....    | 7,442                  | 3,349                  | 61,496                   |
| October 2021 - December 2021..... | 7,915                  | 3,600                  | 61,496                   |
| January 2022 - March 2022.....    | 8,074                  | 3,689                  | 61,496                   |
| <b>North Dakota</b>               |                        |                        |                          |
| January 2021 - March 2021.....    | 14,727                 | 6,696                  | 93,100                   |
| October 2021 - December 2021..... | 14,679                 | 6,656                  | 93,100                   |
| January 2022 - March 2022.....    | 14,603                 | 6,742                  | 93,100                   |
| <b>Ohio</b>                       |                        |                        |                          |
| January 2021 - March 2021.....    | 14,016                 | 6,301                  | 79,900                   |
| October 2021 - December 2021..... | 14,021                 | 6,324                  | 79,900                   |
| January 2022 - March 2022.....    | 13,447                 | 5,986                  | 79,900                   |
| <b>Pennsylvania</b>               |                        |                        |                          |
| January 2021 - March 2021.....    | 11,032                 | 5,008                  | 78,000                   |
| October 2021 - December 2021..... | 11,740                 | 5,360                  | 78,000                   |
| January 2022 - March 2022.....    | 10,308                 | 4,778                  | 78,000                   |
| <b>Texas</b>                      |                        |                        |                          |
| January 2021 - March 2021.....    | 13,039                 | 6,003                  | 92,000                   |
| October 2021 - December 2021..... | 13,745                 | 6,363                  | 92,000                   |
| January 2022 - March 2022.....    | 13,343                 | 6,219                  | 92,000                   |
| <b>Other States <sup>1</sup></b>  |                        |                        |                          |
| January 2021 - March 2021.....    | 11,055                 | 5,162                  | 78,407                   |
| October 2021 - December 2021..... | 11,469                 | 5,429                  | 78,407                   |
| January 2022 - March 2022.....    | 11,010                 | 5,178                  | 78,407                   |
| <b>United States</b>              |                        |                        |                          |
| January 2021 - March 2021.....    | 224,523                | 103,635                | 1,582,662                |
| October 2021 - December 2021..... | 234,761                | 108,060                | 1,582,830                |
| January 2022 - March 2022.....    | 230,268                | 106,471                | 1,600,330                |

<sup>1</sup> Alabama, Arkansas, Arizona, Hawaii, Massachusetts, Maine, and Louisiana combined to avoid disclosing individual operations.

## Flour Milling Production, and Capacity – United States: January 2022 - March 2022 with Comparisons

| Item  | January - March 2021 | October - December 2021 | January - March 2022 |
|---|----------------------|-------------------------|----------------------|
| <b>All wheat</b>  |                      |                         |                      |
| Wheat ground for flour .....1,000 bushels                         | 224,523              | 234,761                 | 230,268              |
| Flour production .....1,000 cwt                                   | 103,635              | 108,060                 | 106,471              |
| Whole wheat flour production .....1,000 cwt                       | 4,860                | 5,088                   | 5,250                |
| Millfeed production ..... tons                                    | 1,630,892            | 1,697,294               | 1,666,162            |
| Daily 24-hour capacity ..... cwt                                  | 1,582,662            | 1,582,830               | 1,600,330            |
| <b>Wheat, excluding durum</b>                                     |                      |                         |                      |
| Wheat ground for flour .....1,000 bushels                         | 207,284              | 218,851                 | 214,254              |
| Flour production .....1,000 cwt                                   | 95,549               | 100,518                 | 98,855               |
| Whole wheat production .....1,000 cwt                             | 4,717                | 4,909                   | 5,155                |
| Millfeed production ..... tons                                    | 1,514,286            | 1,587,926               | 1,557,623            |
| Daily 24-hour capacity ..... cwt                                  | 1,450,932            | 1,451,100               | 1,468,600            |
| <b>Wheat, durum</b>   |                      |                         |                      |
| Wheat ground for flour and semolina .....1,000 bushels            | 17,239               | 15,910                  | 16,014               |
| Durum flour and semolina production .....1,000 cwt                | 8,086                | 7,542                   | 7,616                |
| Whole wheat durum flour<br>and semolina production .....1,000 cwt | 143                  | 179                     | 95                   |
| Millfeed production ..... tons                                    | 116,606              | 109,368                 | 108,539              |
| Daily 24-hour capacity ..... cwt                                  | 131,730              | 131,730                 | 131,730              |
| <b>Rye</b>  |                      |                         |                      |
| Rye ground for flour .....1,000 bushels                           | 457                  | 449                     | 441                  |
| Flour production .....1,000 cwt                                   | 209                  | 207                     | 200                  |
| Millfeed production ..... tons                                    | 921                  | (D)                     | 814                  |
| Daily 24-hour capacity ..... cwt                                  | 9,655                | 9,655                   | 9,655                |

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

## Statistical Methodology

**Survey Procedures:** *Flour Milling Products* 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 wheat or rye flour.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of wheat or rye flour production in 2014. 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 Flour Milling Products survey questionnaires, mills are asked for previous quarter data on wheat and rye ground for flour, and production of flour, whole wheat flour, and millfeed. Quarters are based on a calendar year with the following definitions: first quarter – January through March; second quarter – April through June; third quarter – July through September; fourth quarter – October through December. 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 or Regional totals.

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

**Reliability:** Approximately 165 reports are received each month which represent about 99 percent of total capacity. Quarterly data can vary due to different firms reporting quarter to quarter. 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)

|  |                |
|--|----------------|
| Lance Honig, Chief, Crops Branch.....                        | (202) 720-2127 |
| Chris Hawthorn, Head, Field Crops Section .....              | (202) 720-2127 |
| Irwin Anolik – Crop Weather .....                            | (202) 720-7621 |
| Joshua Bates – Hemp, Oats, Soybeans.....                     | (202) 690-3234 |
| David Colwell – Current Agricultural Industrial Reports..... | (202) 720-8800 |
| Michelle Harder – Barley, County Estimates, Hay .....        | (202) 690-8533 |
| James Johanson – Rye, Wheat.....                             | (202) 720-8068 |
| Greg Lemmons – Corn, Flaxseed, Proso Millet .....            | (202) 720-9526 |
| Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....         | (202) 720-5944 |
| Travis Thorson – Sunflower, Other Oilseeds .....             | (202) 720-7369 |
| Lihan Wei – Peanuts, Rice.....                               | (202) 720-7688 |

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

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