



# Flour Milling Products

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## Highlights

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

**Third Quarter 2022**, July through September, contained 92 days.

**Fourth Quarter 2022**, October through December, contained 92 days.

**All wheat** ground for flour during the fourth quarter 2022 was 229 million bushels, down 3 percent from the third quarter 2022 grind of 237 million bushels and down 2 percent from the fourth quarter 2021 grind of 235 million bushels. Fourth quarter 2022 total flour production was 107 million hundredweight, down 3 percent from the third quarter 2022 and down 1 percent from the fourth quarter 2021. Whole wheat flour production at 4.74 million hundredweight during the fourth quarter 2022 accounted for 4 percent of the total flour production. Millfeed production from wheat in the fourth quarter 2022 was 1.66 million tons. The daily 24-hour milling capacity of wheat flour during the fourth quarter 2022 was 1.58 million hundredweight.

**Durum wheat** ground for flour and semolina production during the fourth quarter of 2022 totaled 16.5 million bushels, up 5 percent from the third quarter 2022 and up 4 percent from the fourth quarter 2021. Fourth quarter 2022 durum flour and semolina production was 8.02 million hundredweight, up 7 percent from the third quarter 2022 and up 6 percent from the fourth quarter 2021. Whole wheat durum flour and semolina production was 120,000 hundredweight, down 2 percent from 123,000 hundredweight in the third quarter 2022 and down 33 percent from 179,000 hundredweight from the fourth quarter 2021. Fourth quarter durum wheat millfeed production was 103,085 tons and the daily 24-hour milling capacity for durum and semolina production was 134,730 hundredweight.

**Rye** ground for flour during the fourth quarter of 2022 was 390,000 bushels, down 5 percent from the third quarter 2022 and down 13 percent from the fourth quarter 2021. Rye flour production during the fourth quarter of 2022 was 178,000 hundredweight, compared to 186,000 hundredweight in the previous quarter and 207,000 hundredweight in the same quarter for the previous year. The daily 24-hour milling capacity for rye milling was 9,655 hundredweight for the fourth quarter 2022.

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

Region	Wheat ground for flour	Wheat flour production	Daily (24-hour) capacity
	(1,000 bushels)	(1,000 cwt)	(cwt)
California			
October 2021 - December 2021 .....	16,557	7,608	108,600
July 2022 - September 2022.....	16,414	7,613	108,600
October 2022 - December 2022 .....	16,574	7,659	108,600
Colorado and Oklahoma			
October 2021 - December 2021 .....	7,987	3,854	55,780
July 2022 - September 2022.....	7,955	3,802	55,780
October 2022 - December 2022 .....	7,884	3,798	55,780
Florida, Georgia, and South Carolina			
October 2021 - December 2021 .....	9,160	4,136	59,000
July 2022 - September 2022.....	9,656	4,438	62,000
October 2022 - December 2022 .....	9,884	4,648	62,000
Idaho, Montana, Oregon, Utah, and Washington			
October 2021 - December 2021 .....	16,435	7,478	125,387
July 2022 - September 2022.....	16,644	7,838	125,387
October 2022 - December 2022 .....	16,647	7,705	119,387
Illinois, Indiana, and Wisconsin			
October 2021 - December 2021 .....	25,223	11,807	163,252
July 2022 - September 2022.....	25,936	12,075	163,252
October 2022 - December 2022 .....	25,185	11,714	163,252
Iowa and Nebraska			
October 2021 - December 2021 .....	9,522	4,304	55,894
July 2022 - September 2022.....	9,435	4,379	55,894
October 2022 - December 2022 .....	6,920	3,172	50,894
Kansas			
October 2021 - December 2021 .....	16,101	7,519	112,300
July 2022 - September 2022.....	16,881	7,754	111,800
October 2022 - December 2022 .....	16,235	7,492	111,800
Kentucky and Tennessee			
October 2021 - December 2021 .....	9,183	4,116	57,000
July 2022 - September 2022.....	9,184	4,262	57,000
October 2022 - December 2022 .....	8,759	3,969	57,000
Maryland and Virginia			
October 2021 - December 2021 .....	6,493	2,953	48,644
July 2022 - September 2022.....	7,040	3,183	48,644
October 2022 - December 2022 .....	6,703	3,038	48,500
Michigan			
October 2021 - December 2021 .....	6,065	2,716	39,700
July 2022 - September 2022.....	6,154	2,737	39,700
October 2022 - December 2022 .....	5,705	2,496	39,700
Minnesota			
October 2021 - December 2021 .....	11,643	5,461	80,120
July 2022 - September 2022.....	11,321	5,280	80,120
October 2022 - December 2022 .....	11,080	5,178	80,120
Missouri			
October 2021 - December 2021 .....	12,595	5,825	92,800
July 2022 - September 2022.....	12,625	6,156	92,800
October 2022 - December 2022 .....	12,659	5,963	92,800
New Jersey and New York			
October 2021 - December 2021 .....	14,228	6,551	101,450
July 2022 - September 2022.....	13,916	6,528	101,450
October 2022 - December 2022 .....	13,301	6,422	101,450

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

Region	Wheat ground for flour	Wheat flour production	Daily (24-hour) capacity
	(1,000 bushels)	(1,000 cwt)	(cwt)
North Carolina			
October 2021 - December 2021 .....	7,915	3,600	61,496
July 2022 - September 2022 .....	8,079	3,678	61,496
October 2022 - December 2022.....	7,576	3,470	61,496
North Dakota			
October 2021 - December 2021.....	14,679	6,656	93,100
July 2022 - September 2022 .....	15,213	6,904	103,600
October 2022 - December 2022.....	15,217	7,107	103,600
Ohio			
October 2021 - December 2021.....	14,021	6,324	79,900
July 2022 - September 2022 .....	13,976	6,217	79,900
October 2022 - December 2022.....	12,481	5,678	79,900
Pennsylvania			
October 2021 - December 2021.....	11,740	5,360	78,000
July 2022 - September 2022 .....	11,044	5,106	78,000
October 2022 - December 2022.....	11,381	5,302	78,000
Texas			
October 2021 - December 2021.....	13,745	6,363	92,000
July 2022 - September 2022 .....	14,122	6,480	92,000
October 2022 - December 2022.....	14,139	6,516	92,000
Other States <sup>1</sup>			
October 2021 - December 2021.....	11,469	5,429	78,407
July 2022 - September 2022 .....	11,609	5,429	78,407
October 2022 - December 2022.....	11,133	5,220	78,407
United States			
October 2021 - December 2021.....	234,761	108,060	1,582,830
July 2022 - September 2022 .....	237,204	109,859	1,595,830
October 2022 - December 2022.....	229,463	106,547	1,584,686

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

# **Flour Milling Production, and Capacity – United States: October 2022 - December 2022 with Comparisons**

Item	October - December 2021	July - September 2022	October - December 2022
<b>All wheat</b>			
Wheat ground for flour .....1,000 bushels	234,761	237,204	229,463
Flour production .....1,000 cwt	108,060	109,859	106,547
Whole wheat flour production .....1,000 cwt	5,088	4,630	4,741
Millfeed production .....tons	1,697,294	1,718,246	1,663,208
Daily 24-hour capacity ..... cwt	1,582,830	1,595,830	1,584,686
<b>Wheat, excluding durum</b>			
Wheat ground for flour .....1,000 bushels	218,851	221,496	212,942
Flour production .....1,000 cwt	100,518	102,352	98,528
Whole wheat production .....1,000 cwt	4,909	4,507	4,621
Millfeed production .....tons	1,587,926	1,614,369	1,560,123
Daily 24-hour capacity ..... cwt	1,451,100	1,461,100	1,449,956
<b>Wheat, durum</b>			
Wheat ground for flour and semolina .....1,000 bushels	15,910	15,708	16,521
Durum flour and semolina production .....1,000 cwt	7,542	7,507	8,019
Whole wheat durum flour and semolina production .....1,000 cwt	179	123	120
Millfeed production .....tons	109,368	103,877	103,085
Daily 24-hour capacity ..... cwt	131,730	134,730	134,730
<b>Rye</b>			
Rye ground for flour .....1,000 bushels	449	411	390
Flour production .....1,000 cwt	207	186	178
Millfeed production .....tons	(D)	777	620
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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