



Flour Milling Products

ISSN: 2378-2498

Released February 1, 2017, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

Third Quarter 2016, July through September, contained 92 days.

Fourth Quarter 2016, October through December, contained 92 days.

All wheat ground for flour during the fourth quarter 2016 was 236 million bushels, up 1 percent from the third quarter 2016 grind of 233 million bushels and up slightly from the fourth quarter 2015 grind of 236 million bushels. Fourth quarter 2016 total flour production was 110 million hundredweight, up 1 percent from the third quarter 2016 and up 1 percent from the fourth quarter 2015. Whole wheat flour production at 5.68 million hundredweight during the fourth quarter 2016 accounted for 5 percent of the total flour production. Millfeed production from wheat in the fourth quarter 2016 was 1.68 million tons. The daily 24-hour milling capacity of wheat flour during the fourth quarter 2016 was 1.62 thousand hundredweight.

Durum wheat ground for flour and semolina production during the fourth quarter of 2016 totaled 18.5 million bushels, up 14 percent from the third quarter 2016 and up 6 percent from the fourth quarter 2015. Fourth quarter 2016 durum flour and semolina production was 8.72 million hundredweight, up 13 percent from the third quarter 2016 and up 7 percent from the fourth quarter 2015. Whole wheat durum flour and semolina production was 184 thousand hundredweight, up 2 percent from 181 thousand hundredweight in the third quarter 2016 but down 3 percent from 189 thousand hundredweight from the fourth quarter 2015. Fourth quarter durum wheat millfeed production was 125 thousand tons and the daily 24-hour milling capacity for durum and semolina production was 127 thousand hundredweight.

Rye ground for flour during the fourth quarter of 2016 was 445 thousand bushels, down 6 percent from the third quarter 2016 and down 19 percent from the fourth quarter 2015. Rye flour production during the fourth quarter of 2016 was 217 thousand hundredweight, compared to 233 thousand hundredweight in the previous quarter and 261 thousand hundredweight in the same quarter for the previous year. The daily 24-hour milling capacity for rye milling was 9.39 thousand hundredweight for the fourth quarter 2016.

**All Wheat Ground, Flour Production, and Capacity – Regions and United States:
October 2016 - December 2016 with Comparisons**

Region	Wheat ground for flour (1,000 bushels)	Wheat flour production (1,000 cwt)	Daily (24-hour) capacity (cwt)
California			
October 2015 - December 2015	16,478	7,637	120,671
July 2016 - September 2016	15,272	7,102	120,671
October 2016 - December 2016	16,686	7,789	120,671
Colorado and Oklahoma			
October 2015 - December 2015	7,660	3,626	59,280
July 2016 - September 2016	7,692	3,779	59,280
October 2016 - December 2016	7,392	3,649	59,280
Florida, Georgia, and South Carolina			
October 2015 - December 2015	10,128	4,693	64,000
July 2016 - September 2016	10,166	4,688	64,000
October 2016 - December 2016	10,126	4,593	64,000
Idaho, Montana, Oregon, Utah, and Washington			
October 2015 - December 2015	17,690	8,103	130,708
July 2016 - September 2016	16,538	7,865	131,540
October 2016 - December 2016	17,207	8,313	131,540
Illinois, Indiana, and Wisconsin			
October 2015 - December 2015	22,377	10,344	142,452
July 2016 - September 2016	22,223	10,349	142,452
October 2016 - December 2016	21,813	10,212	142,452
Iowa and Nebraska			
October 2015 - December 2015	9,047	4,188	64,376
July 2016 - September 2016	8,556	4,087	57,676
October 2016 - December 2016	8,409	3,951	57,676
Kansas			
October 2015 - December 2015	15,796	7,257	116,032
July 2016 - September 2016	14,845	6,934	116,032
October 2016 - December 2016	14,310	6,687	116,032
Kentucky and Tennessee			
October 2015 - December 2015	8,720	3,933	52,650
July 2016 - September 2016	8,809	4,028	52,650
October 2016 - December 2016	8,757	4,102	52,650
Maryland and Virginia			
October 2015 - December 2015	7,488	3,361	52,192
July 2016 - September 2016	7,475	3,372	52,192
October 2016 - December 2016	7,678	3,469	52,192
Michigan			
October 2015 - December 2015	5,667	2,742	38,900
July 2016 - September 2016	6,808	3,039	39,200
October 2016 - December 2016	6,519	2,919	39,200
Minnesota			
October 2015 - December 2015	15,927	7,371	115,120
July 2016 - September 2016	15,574	7,105	115,120
October 2016 - December 2016	15,752	7,231	115,120
Missouri			
October 2015 - December 2015	13,531	6,247	88,185
July 2016 - September 2016	12,280	5,579	88,185
October 2016 - December 2016	13,114	5,852	88,185
New Jersey and New York			
October 2015 - December 2015	14,166	6,528	102,130
July 2016 - September 2016	15,090	7,124	102,150
October 2016 - December 2016	14,681	6,950	102,150

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**All Wheat Ground, Flour Production, and Capacity – Regions and United States:
October 2016 - December 2016 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 2015 - December 2015.....	7,767	3,578	61,496
July 2016 - September 2016.....	8,530	3,811	61,496
October 2016 - December 2016.....	8,235	3,733	61,496
North Dakota			
October 2015 - December 2015.....	12,575	5,775	81,500
July 2016 - September 2016.....	12,325	5,756	92,500
October 2016 - December 2016.....	14,673	6,652	92,500
Ohio			
October 2015 - December 2015.....	14,906	6,781	86,700
July 2016 - September 2016.....	15,519	6,978	86,700
October 2016 - December 2016.....	15,620	7,070	86,700
Pennsylvania			
October 2015 - December 2015.....	12,829	5,864	93,880
July 2016 - September 2016.....	12,251	5,553	90,400
October 2016 - December 2016.....	12,393	5,734	90,400
Texas			
October 2015 - December 2015.....	11,985	5,512	77,250
July 2016 - September 2016.....	12,379	5,729	77,250
October 2016 - December 2016.....	12,312	5,734	77,250
Other States ¹			
October 2015 - December 2015.....	11,147	5,261	70,307
July 2016 - September 2016.....	11,059	5,156	70,307
October 2016 - December 2016.....	10,321	5,004	70,307
United States			
October 2015 - December 2015.....	235,884	108,801	1,617,829
July 2016 - September 2016.....	233,391	108,034	1,619,801
October 2016 - December 2016.....	235,998	109,644	1,619,801

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

**Flour Milling Production, and Capacity – United States: October 2016 - December 2016
with Comparisons**

Item	October - December 2015	July - September 2016	October - December 2016
All wheat			
Wheat ground for flour 1,000 bushels	235,884	233,391	235,998
Flour production 1,000 cwt	108,801	108,034	109,644
Whole wheat flour production 1,000 cwt	6,154	6,052	5,679
Millfeed production tons	1,682,552	1,689,779	1,676,240
Daily 24-hour capacity cwt	1,617,829	1,619,801	1,619,801
Wheat, excluding durum			
Wheat ground for flour 1,000 bushels	218,443	217,082	217,449
Flour production 1,000 cwt	100,612	100,297	100,922
Whole wheat production 1,000 cwt	5,965	5,871	5,495
Millfeed production tons	1,561,550	1,576,270	1,551,175
Daily 24-hour capacity cwt	1,490,082	1,492,754	1,492,754
Wheat, durum			
Wheat ground for flour and semolina 1,000 bushels	17,441	16,309	18,549
Durum flour and semolina production 1,000 cwt	8,189	7,737	8,722
Whole wheat durum flour and semolina production 1,000 cwt	-	-	-
and semolina production 1,000 cwt	189	181	184
Millfeed production tons	121,002	113,509	125,065
Daily 24-hour capacity cwt	127,747	127,047	127,047
Rye			
Rye ground for flour 1,000 bushels	549	473	445
Flour production 1,000 cwt	261	233	217
Millfeed production tons	(D)	(D)	(D)
Daily 24-hour capacity cwt	9,365	9,385	9,385

- Represents zero.

(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 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.

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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@nass.usda.gov.

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