



# Flour Milling Products

ISSN: 2378-2498

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Released November 1, 2016, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## Highlights

**Second Quarter 2016**, April through June, contained 91 days.

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

**All wheat** ground for flour during the third quarter 2016 was 233 million bushels, up 4 percent from the second quarter 2016 grind of 224 million bushels but down 1 percent from the third quarter 2015 grind of 235 million bushels. Third quarter 2016 total flour production was 108 million hundredweight, up 4 percent from the second quarter 2016 but down slightly from the third quarter 2015. Whole wheat flour production at 6.05 million hundredweight during the third quarter 2016 accounted for 6 percent of the total flour production. Millfeed production from wheat in the third quarter 2016 was 1.69 million tons. The daily 24-hour milling capacity of wheat flour during the third quarter 2016 was 1.62 thousand hundredweight.

**Durum wheat** ground for flour and semolina production during the third quarter of 2016 totaled 16.2 million bushels, up 5 percent from the second quarter 2016 and up slightly from the third quarter 2015. Third quarter 2016 durum flour and semolina production was 7.67 million hundredweight, up 4 percent from the second quarter 2016 and up 3 percent from the third quarter 2015. Whole wheat durum flour and semolina production was 181 thousand hundredweight, up 12 percent from 162 thousand hundredweight in the second quarter 2016 but down 47 percent from 339 thousand hundredweight from the third quarter 2015. Third quarter durum wheat millfeed production was 113 thousand tons and the daily 24-hour milling capacity for durum and semolina production was 127 thousand hundredweight.

**Rye** ground for flour during the third quarter of 2016 was 472 thousand bushels, down 25 percent from the second quarter 2016 and down 9 percent from the third quarter 2015. Rye flour production during the third quarter of 2016 was 233 thousand hundredweight, compared to 303 thousand hundredweight and 241 thousand hundredweight in the previous quarter and the same quarter previous year. The daily 24-hour milling capacity for rye milling was 9.39 thousand hundredweight for the third quarter 2016.

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

Region	Wheat ground for flour (1,000 bushels)	Wheat flour production (1,000 cwt)	Daily (24-hour) capacity (cwt)
<b>California</b>			
July 2015 - September 2015 .....	16,398	7,507	120,671
April 2016 - June 2016 .....	16,105	7,555	120,671
July 2016 - September 2016 .....	15,272	7,102	120,671
<b>Colorado and Oklahoma</b>			
July 2015 - September 2015 .....	7,883	3,736	59,300
April 2016 - June 2016 .....	7,482	3,610	59,280
July 2016 - September 2016 .....	7,692	3,779	59,280
<b>Florida, Georgia, and South Carolina</b>			
July 2015 - September 2015 .....	10,059	4,564	64,000
April 2016 - June 2016 .....	9,798	4,449	64,000
July 2016 - September 2016 .....	10,166	4,688	64,000
<b>Idaho, Montana, Oregon, Utah, and Washington</b>			
July 2015 - September 2015 .....	17,472	8,109	130,408
April 2016 - June 2016 .....	16,738	7,842	131,540
July 2016 - September 2016 .....	16,528	7,860	131,540
<b>Illinois, Indiana, and Wisconsin</b>			
July 2015 - September 2015 .....	22,156	10,223	142,452
April 2016 - June 2016 .....	22,242	10,427	142,452
July 2016 - September 2016 .....	22,223	10,349	142,452
<b>Iowa and Nebraska</b>			
July 2015 - September 2015 .....	9,177	4,159	64,376
April 2016 - June 2016 .....	7,962	3,645	64,376
July 2016 - September 2016 .....	8,411	3,873	57,676
<b>Kansas</b>			
July 2015 - September 2015 .....	16,035	7,326	116,032
April 2016 - June 2016 .....	14,139	6,516	116,032
July 2016 - September 2016 .....	14,845	6,934	116,032
<b>Kentucky and Tennessee</b>			
July 2015 - September 2015 .....	9,190	4,126	52,650
April 2016 - June 2016 .....	8,493	3,902	52,650
July 2016 - September 2016 .....	8,809	4,028	52,650
<b>Maryland and Virginia</b>			
July 2015 - September 2015 .....	7,628	3,348	52,192
April 2016 - June 2016 .....	7,182	3,238	52,192
July 2016 - September 2016 .....	7,475	3,372	52,192
<b>Michigan</b>			
July 2015 - September 2015 .....	5,394	2,444	39,200
April 2016 - June 2016 .....	5,915	2,650	39,200
July 2016 - September 2016 .....	6,808	3,039	39,200
<b>Minnesota</b>			
July 2015 - September 2015 .....	15,555	7,192	115,120
April 2016 - June 2016 .....	15,025	6,896	115,120
July 2016 - September 2016 .....	15,574	7,105	115,120
<b>Missouri</b>			
July 2015 - September 2015 .....	13,543	6,109	88,185
April 2016 - June 2016 .....	11,523	5,299	88,185
July 2016 - September 2016 .....	12,280	5,579	88,185
<b>New Jersey and New York</b>			
July 2015 - September 2015 .....	14,790	6,808	102,230
April 2016 - June 2016 .....	13,963	6,637	102,150
July 2016 - September 2016 .....	15,090	7,124	102,150

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**All Wheat Ground, Flour Production, and Capacity – Regions and United States:  
July 2016 - September 2016 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>			
July 2015 - September 2015.....	8,104	3,702	61,496
April 2016 - June 2016.....	8,047	3,664	61,496
July 2016 - September 2016.....	8,530	3,811	61,496
<b>North Dakota</b>			
July 2015 - September 2015.....	12,212	5,590	81,000
April 2016 - June 2016.....	12,385	5,720	81,000
July 2016 - September 2016.....	12,325	5,756	92,500
<b>Ohio</b>			
July 2015 - September 2015.....	13,929	6,604	86,700
April 2016 - June 2016.....	12,177	5,469	86,700
July 2016 - September 2016.....	15,519	6,978	86,700
<b>Pennsylvania</b>			
July 2015 - September 2015.....	12,894	5,870	93,880
April 2016 - June 2016.....	12,320	5,612	90,400
July 2016 - September 2016.....	12,251	5,553	90,400
<b>Texas</b>			
July 2015 - September 2015.....	11,887	5,401	77,300
April 2016 - June 2016.....	12,133	5,602	77,250
July 2016 - September 2016.....	12,379	5,729	77,250
<b>Other States <sup>1</sup></b>			
July 2015 - September 2015.....	10,695	5,061	70,307
April 2016 - June 2016.....	10,751	5,090	70,307
July 2016 - September 2016.....	11,059	5,156	70,307
<b>United States</b>			
July 2015 - September 2015.....	235,001	107,879	1,617,499
April 2016 - June 2016.....	224,380	103,823	1,615,001
July 2016 - September 2016.....	233,236	107,815	1,619,801

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

## Flour Milling Production, and Capacity – United States: July 2016 - September 2016 with Comparisons

Item	July - September 2015	April - June 2016	July - September 2016
<b>All wheat</b>			
Wheat ground for flour ..... 1,000 bushels	235,001	224,380	233,236
Flour production ..... 1,000 cwt	107,879	103,823	107,815
Whole wheat flour production ..... 1,000 cwt	6,326	5,186	6,048
Millfeed production ..... tons	1,713,970	1,613,961	1,686,927
Daily 24-hour capacity ..... cwt	1,617,499	1,615,001	1,619,801
<b>Wheat, excluding durum</b>			
Wheat ground for flour ..... 1,000 bushels	218,908	208,915	217,072
Flour production ..... 1,000 cwt	100,429	96,485	100,148
Whole wheat production ..... 1,000 cwt	5,987	5,024	5,867
Millfeed production ..... tons	1,602,633	1,506,206	1,573,827
Daily 24-hour capacity ..... cwt	1,489,752	1,487,954	1,492,754
<b>Wheat, durum</b>			
Wheat ground for flour and semolina ..... 1,000 bushels	16,093	15,465	16,164
Durum flour and semolina production ..... 1,000 cwt	7,450	7,338	7,667
Whole wheat durum flour and semolina production ..... 1,000 cwt	339	162	181
Millfeed production ..... tons	111,337	107,755	113,100
Daily 24-hour capacity ..... cwt	127,747	127,047	127,047
<b>Rye</b>			
Rye ground for flour ..... 1,000 bushels	517	627	472
Flour production ..... 1,000 cwt	241	303	233
Millfeed production ..... tons	(D)	(D)	(D)
Daily 24-hour capacity ..... cwt	9,365	9,385	9,385

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

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