



# Flour Milling Products

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## Highlights

**First Quarter 2016**, January through March, contained 92 days.

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

**All wheat** ground for flour during the second quarter 2016 was 225 million bushels, up slightly from the first quarter 2016 grind of 224 million bushels but down 1 percent from the second quarter 2015 grind of 227 million bushels. Second quarter 2016 total flour production was 104 million hundredweight, up slightly from the first quarter 2016 but down 1 percent from the second quarter 2015. Whole wheat flour production at 5.17 million hundredweight during the second quarter 2016 accounted for 5 percent of the total flour production. Millfeed production from wheat in the second quarter 2016 was 1.62 million tons. The daily 24-hour milling capacity of wheat flour during the second quarter 2016 was 1.61 million hundredweight.

**Durum wheat** ground for flour and semolina production during the second quarter of 2016 totaled 15.6 million bushels, down 7 percent from the first quarter 2016 but up 3 percent from the second quarter 2015. Second quarter 2016 durum flour and semolina production was 7.43 million hundredweight, down 4 percent from the first quarter 2016 but up 5 percent from the second quarter 2015. Whole wheat durum flour and semolina production was 158 thousand hundredweight, down 24 percent from 209 thousand hundredweight in the first quarter 2016 and down 7 percent from 170 thousand hundredweight from the second quarter 2015. Second quarter durum wheat millfeed production was 107 thousand tons and the daily 24-hour milling capacity for durum and semolina production was 127 thousand hundredweight.

**Rye** ground for flour during the second quarter of 2016 was 633 thousand bushels, up 16 percent from the first quarter 2016 and up 21 percent from the second quarter 2015. Rye flour production during the second quarter of 2016 was 306 thousand hundredweight, compared to 266 thousand hundredweight in the previous quarter and 250 thousand hundredweight in the same quarter for the previous year. The daily 24-hour milling capacity for rye milling was 9.38 thousand hundredweight for the second quarter 2016.

**All Wheat Ground, Flour Production, and Capacity – Regions and United States:  
April 2016 - June 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>			
April 2015 - June 2015 .....	16,231	7,520	120,671
January 2016 - March 2016 .....	16,269	7,609	120,671
April 2016 - June 2016 .....	16,105	7,555	120,671
<b>Colorado and Oklahoma</b>			
April 2015 - June 2015 .....	7,698	3,677	59,300
January 2016 - March 2016 .....	7,635	3,727	59,280
April 2016 - June 2016 .....	7,515	3,618	59,280
<b>Florida, Georgia, and South Carolina</b>			
April 2015 - June 2015 .....	10,161	4,621	64,100
January 2016 - March 2016 .....	10,009	4,688	64,000
April 2016 - June 2016 .....	9,957	4,511	64,000
<b>Idaho, Montana, Oregon, Utah, and Washington</b>			
April 2015 - June 2015 .....	17,515	8,263	130,408
January 2016 - March 2016 .....	16,087	7,587	130,708
April 2016 - June 2016 .....	16,732	7,838	129,740
<b>Illinois, Indiana, and Wisconsin</b>			
April 2015 - June 2015 .....	21,002	9,806	142,452
January 2016 - March 2016 .....	21,200	10,006	142,452
April 2016 - June 2016 .....	22,242	10,427	142,452
<b>Iowa and Nebraska</b>			
April 2015 - June 2015 .....	8,997	4,086	64,376
January 2016 - March 2016 .....	8,215	3,787	64,376
April 2016 - June 2016 .....	8,098	3,748	64,376
<b>Kansas</b>			
April 2015 - June 2015 .....	13,911	6,400	116,032
January 2016 - March 2016 .....	14,236	6,588	116,032
April 2016 - June 2016 .....	14,139	6,516	116,032
<b>Kentucky and Tennessee</b>			
April 2015 - June 2015 .....	8,720	3,977	52,650
January 2016 - March 2016 .....	8,600	3,953	52,650
April 2016 - June 2016 .....	8,493	3,902	52,650
<b>Maryland and Virginia</b>			
April 2015 - June 2015 .....	7,531	3,374	52,192
January 2016 - March 2016 .....	7,523	3,312	52,192
April 2016 - June 2016 .....	7,182	3,238	52,192
<b>Michigan</b>			
April 2015 - June 2015 .....	5,655	2,602	39,200
January 2016 - March 2016 .....	5,779	2,591	39,200
April 2016 - June 2016 .....	5,915	2,650	39,200
<b>Minnesota</b>			
April 2015 - June 2015 .....	14,696	6,841	117,520
January 2016 - March 2016 .....	14,754	6,841	115,120
April 2016 - June 2016 .....	15,136	6,955	115,120
<b>Missouri</b>			
April 2015 - June 2015 .....	12,238	5,462	88,185
January 2016 - March 2016 .....	12,546	5,580	88,185
April 2016 - June 2016 .....	11,523	5,299	88,185
<b>New Jersey and New York</b>			
April 2015 - June 2015 .....	14,059	6,699	102,230
January 2016 - March 2016 .....	13,458	6,396	102,150
April 2016 - June 2016 .....	13,915	6,588	102,150

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**All Wheat Ground, Flour Production, and Capacity – Regions and United States:  
April 2016 - June 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			
April 2015 - June 2015.....	7,682	3,522	61,496
January 2016 - March 2016 .....	7,910	3,521	61,496
April 2016 - June 2016.....	8,008	3,640	61,496
North Dakota			
April 2015 - June 2015.....	11,765	5,388	81,000
January 2016 - March 2016 .....	11,878	5,489	81,000
April 2016 - June 2016.....	12,385	5,720	81,000
Ohio			
April 2015 - June 2015.....	13,848	6,329	90,100
January 2016 - March 2016 .....	13,709	6,223	86,700
April 2016 - June 2016.....	12,177	5,469	86,700
Pennsylvania			
April 2015 - June 2015.....	13,075	5,988	93,880
January 2016 - March 2016 .....	12,061	5,552	90,400
April 2016 - June 2016.....	12,320	5,612	90,400
Texas			
April 2015 - June 2015.....	12,035	5,542	77,300
January 2016 - March 2016 .....	11,722	5,442	77,250
April 2016 - June 2016.....	12,133	5,602	77,250
Other States <sup>1</sup>			
April 2015 - June 2015.....	10,633	5,007	67,807
January 2016 - March 2016 .....	10,621	5,013	70,307
April 2016 - June 2016.....	10,805	5,083	70,307
United States			
April 2015 - June 2015.....	227,452	105,104	1,620,899
January 2016 - March 2016 .....	224,212	103,905	1,614,169
April 2016 - June 2016.....	224,780	103,971	1,613,201

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

## Flour Milling Production, and Capacity – United States: April 2016 - June 2016 with Comparisons

Item	April - June 2015	January - March 2016	April - June 2016
<b>All wheat</b>			
Wheat ground for flour ..... 1,000 bushels	227,452	224,212	224,780
Flour production ..... 1,000 cwt	105,104	103,905	103,971
Whole wheat flour production ..... 1,000 cwt	5,513	5,515	5,168
Millfeed production ..... tons	1,643,116	1,595,888	1,615,743
Daily 24-hour capacity ..... cwt	1,620,899	1,614,169	1,613,201
<b>Wheat, excluding durum</b>			
Wheat ground for flour ..... 1,000 bushels	212,260	207,516	209,185
Flour production ..... 1,000 cwt	98,032	96,196	96,540
Whole wheat production ..... 1,000 cwt	5,343	5,306	5,010
Millfeed production ..... tons	1,538,002	1,482,590	1,508,721
Daily 24-hour capacity ..... cwt	1,493,152	1,486,422	1,486,154
<b>Wheat, durum</b>			
Wheat ground for flour and semolina ..... 1,000 bushels	15,192	16,696	15,595
Durum flour and semolina production ..... 1,000 cwt	7,072	7,709	7,431
Whole wheat durum flour and semolina production ..... 1,000 cwt	170	209	158
Millfeed production ..... tons	105,114	113,298	107,022
Daily 24-hour capacity ..... cwt	127,747	127,747	127,047
<b>Rye</b>			
Rye ground for flour ..... 1,000 bushels	523	546	633
Flour production ..... 1,000 cwt	250	266	306
Millfeed production ..... tons	(D)	(D)	(D)
Daily 24-hour capacity ..... cwt	9,365	9,365	9,375

(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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