

Flour Milling Products



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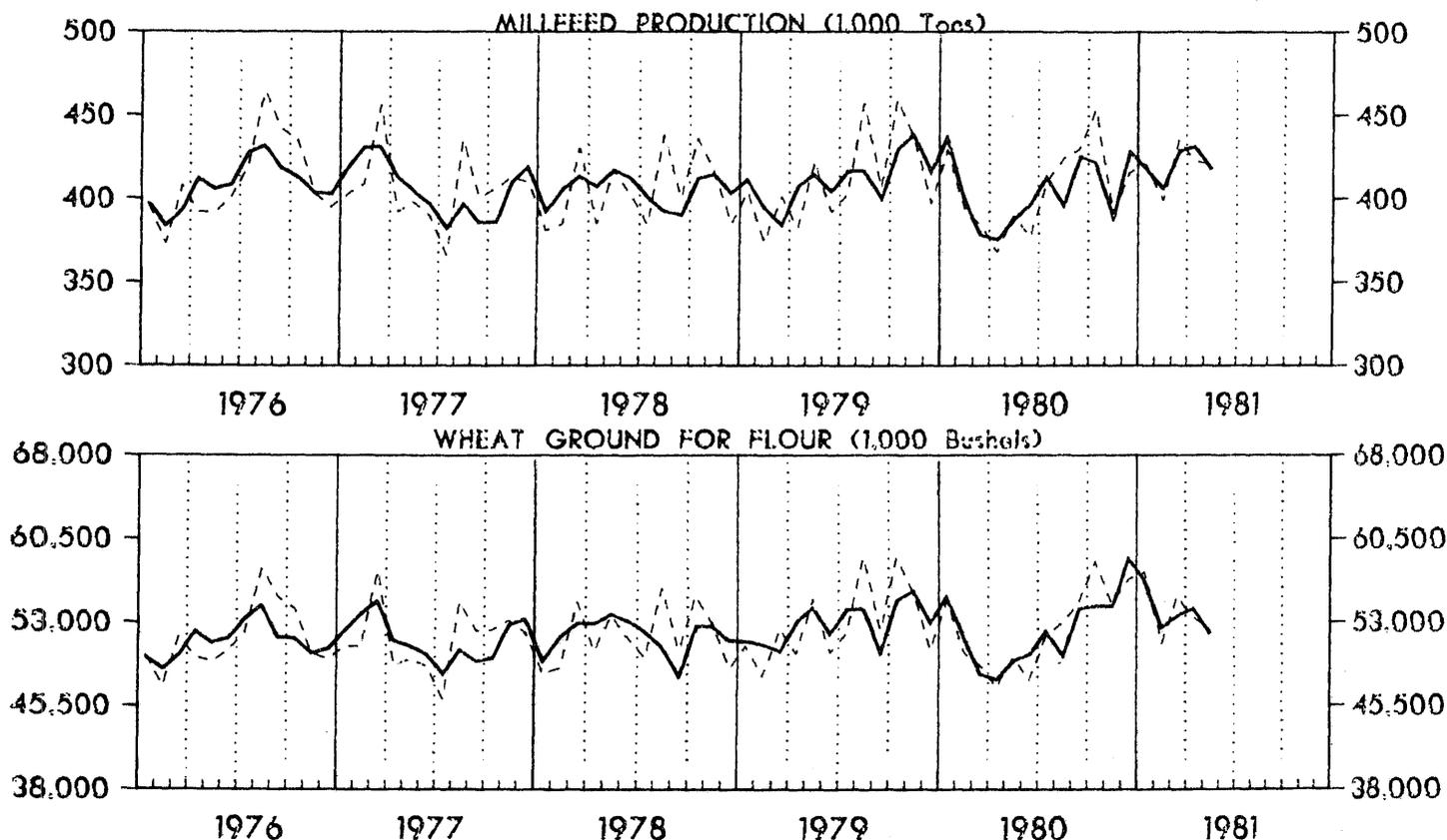
The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose

reports were not received in time for tabulation. A more complete description of the survey appears on page 7.

THIS REPORT INCLUDES DATA COMPARING DOMESTIC OUTPUT, EXPORTS, AND IMPORTS

WHEAT FLOUR MILLING 1976 TO 1981

— Seasonally Adjusted
- - - Not Seasonally Adjusted



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call John Stroeter, (301) 763-7807.

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Table 1A. SUMMARY OF WHEAT FLOUR MILLING, SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production average per working day ¹ (1,000 cwt.)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1981			
May.....	1,163	418	52,020
April.....	1,127	432	54,285
March.....	1,122	429	53,644
February.....	1,122	407	52,655
January.....	1,278	419	56,846
1980			
December.....	1,189	429	58,530
November.....	1,085	391	54,537
October.....	1,142	422	54,498
September.....	1,152	426	54,327
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June.....	1,060	397	50,171
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December.....	1,120	423	53,268
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June.....	1,114	407	52,819
May.....	1,124	411	53,696
April.....	1,087	404	52,278

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and December 25.

Table 1B. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production (1,000 cwt.)		Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ² (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate ³ (percent)	Wheat flour mill stocks ² (1,000 cwt.)
	Average per working day ¹	Calendar month total						
1981								
May (20 days).....	1,173	23,462	420,091	52,228	1,056	111.1	74.9	(NA)
April (22 days).....	1,089	23,967	423,747	53,402	1,056	103.1	74.8	(NA)
March (22 days).....	1,135	24,959	434,910	55,310	1,056	107.5	75.2	3,897
February (20 days).....	1,139	22,787	399,271	51,084	1,056	107.8	74.3	(NA)
January (21 days).....	1,231	25,860	420,559	57,513	1,056	116.6	74.9	(NA)
1980								
December (22 days).....	1,147	25,232	415,419	56,820	1,056	108.6	74.0	3,842
November (19 days).....	1,197	24,420	392,305	54,582	1,056	113.4	74.6	(NA)
October (23 days).....	1,143	26,285	453,219	58,392	1,056	108.2	75.0	(NA)
September (21 days).....	1,182	24,813	429,851	54,762	1,056	111.9	75.5	3,716
August (21 days).....	1,144	24,025	423,743	52,980	1,056	108.3	75.6	(NA)
July (22 days).....	1,052	23,137	409,644	51,760	1,056	99.6	74.5	(NA)
June (21 days).....	1,017	21,356	377,292	47,786	1,056	96.5	74.5	4,268
May (21 days).....	1,086	22,814	390,185	49,836	1,059	102.5	76.3	(NA)
April (22 days).....	965	21,231	367,709	47,170	1,059	91.1	75.0	(NA)
March (21 days).....	1,055	22,165	384,383	49,104	1,059	99.6	75.2	3,323
February (21 days).....	1,077	22,624	394,095	50,352	1,059	101.7	74.9	(NA)
January (22 days).....	1,116	24,553	429,495	54,955	1,059	105.4	74.5	(NA)
1979								
December (20 days).....	1,137	22,744	396,985	50,643	1,059	107.3	74.9	3,975
November (21 days).....	1,180	24,783	435,838	55,710	1,050	118.0	74.1	(NA)
October (23 days).....	1,137	26,143	458,795	58,904	1,050	108.2	74.0	(NA)
September (19 days).....	1,226	23,285	407,341	52,375	1,050	116.7	74.1	3,813
August (23 days).....	1,145	26,340	456,627	59,006	1,050	109.1	74.4	(NA)
July (21 days).....	1,120	23,513	403,133	52,111	1,050	106.6	75.2	(NA)
June (22 days).....	1,025	22,541	391,196	50,250	1,050	102.2	74.8	3,895
May (22 days).....	1,117	24,578	421,726	55,216	1,057	105.7	74.2	(NA)
April (21 days).....	1,062	22,296	382,444	50,319	1,057	100.4	73.8	(NA)

(NA) Not available.

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and December 25.²Collected quarterly.³Wheat flour production as compared with amount of wheat ground.

Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	May 1981	April 1981	May 1980
	Durum wheat (included in table 1 data):				
00111 73	Durum wheat ground.....	M bu.....	2,160	2,333	2,721
20411 53	Straight semolina durum flour.....	M cwt.....	880	953	1,193
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	277	307	283
20416 11	Rye flour production.....	M cwt.....	121	139	127
20416 18	Rye millfeed production.....	Tons.....	1,414	1,636	1,508
20416 11	Rye flour stocks ¹	M cwt.....	(NA)	(NA)	(NA)
	24 hour capacity.....	M cwt.....	10	10	11

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	May 1981		April 1981		May 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)
United States.....	52,228	23,462	53,402	23,967	49,836	22,814
Middle Atlantic.....	6,892	3,102	6,749	3,031	6,844	3,325
New York.....	5,157	2,310	5,285	2,375	5,294	2,382
North Central.....	26,615	11,952	27,860	12,550	25,431	11,441
Ohio.....	2,544	1,130	2,718	1,203	2,751	1,225
Indiana.....	1,376	603	1,380	608	1,236	538
Illinois.....	3,259	1,432	3,204	1,437	2,897	1,280
Michigan.....	852	379	950	413	801	346
Minnesota.....	5,236	2,377	5,898	2,667	5,557	2,519
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	2,638	1,210	2,650	1,220	2,744	1,254
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	6,427	2,919	7,280	3,317	5,998	2,736
South Atlantic.....	4,020	1,785	4,034	1,773	3,723	1,643
East South Central.....	2,560	1,119	2,660	1,148	2,473	1,133
Tennessee.....	1,917	847	2,040	882	1,922	889
West South Central.....	4,178	1,888	4,123	1,851	3,470	1,599
Oklahoma.....	1,604	742	1,562	730	1,393	649
Texas.....	1,966	872	1,905	829	1,566	720
Mountain.....	2,765	1,277	2,770	1,265	2,578	1,189
Montana.....	705	330	591	269	594	276
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	5,198	2,339	5,206	2,349	5,317	2,484
Washington.....	1,252	559	1,372	611	1,564	707
Oregon.....	1,017	404	1,204	494	931	423
California and Hawaii.....	2,929	1,376	2,630	1,244	2,822	1,354

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division: New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division: Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division: Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division: Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division: Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division: Arkansas, Louisiana, Oklahoma, and Texas. West Region: Mountain Division: Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division: Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	April 1981	March 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	280	530	1,349
Peru.....	16	6	45
Chile.....	9	48	71
Morocco.....	154	56	366
Egypt.....	-	119	176
Israel.....	4	-	41
Sri Lanka.....	-	40	40
Philippines.....	50	-	133
Other.....	47	261	477
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	2,932	2,241	8,049
Mexico.....	4	50	55
Jamaica.....	30	32	91
Egypt.....	1,815	1,944	5,353
Saudi Arabia.....	214	93	1,036
Other.....	869	122	1,514
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	127,652	128,770	510,731
Mexico.....	4,580	8,783	20,396
Venezuela.....	924	3,286	8,481
Colombia.....	1,203	772	4,265
Peru.....	2,064	3,679	12,358
Brazil.....	8,392	6,171	37,512
Chile.....	2,849	2,331	9,289
Portugal.....	2,229	2,418	9,063
U.S.S.R.....	10,283	7,249	60,827
Morocco.....	-	-	-
Egypt.....	9,116	8,658	30,911
Bangladesh.....	-	-	-
China (Mainland).....	17,707	27,670	86,228
Korean Republic.....	10,750	3,743	31,543
Indonesia.....	919	2,412	7,725
Philippines.....	4,898	1,977	8,856
Nigeria.....	4,226	3,325	14,073
Other.....	47,512	46,296	169,204

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR
(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹		Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value	Quantity	Value
APRIL 1981						
Wheat flour.....	23,967	(NA)	3,212	38,075	13.4	(NA)
MARCH 1981						
Wheat flour.....	24,959	(NA)	2,771	29,744	11.1	(NA)

Comparison of SIC codes (domestic output) and Schedule B export codes is as follows:

<u>SIC (domestic output)</u>	<u>Export</u>
20411	131.4010-131.4040

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers firms engaged in the production of wheat and rye flour.

Sampling Description—The data shown in this publication were collected on Bureau of the Census monthly Form M20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 establishments, representing 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1977 Census of Manufactures. The survey mail panel consists of mills with a daily capacity of over 400 sacks of flour. Data for approximately 200 small establishments are estimated based upon their 1977 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

Survey Error—The figures for the current month include estimates for establishments in the mail panel for which reports were not received in time for tabulation as well as for the small establishments excluded from the mail panel. Missing figures for companies in the mail panel are "imputed" from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for the small establishments excluded from the monthly mail panel. Individual items with imputation rates greater than 12 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements and because the estimates for nonmail cases may or may not reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment—Since January 1975, the data have been adjusted for the number of working days in the reporting period in order to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

Seasonal Adjustment—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B.

The data were seasonally adjusted using the X-11 variant of the Bureau of the Census Method II seasonal adjustment program. The seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

EXPLANATION OF TERMS

Units of Quantity—Grain ground is measured in bushels of 60 pounds for wheat and 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

Capacity—Based on replies to the question, "What is the maximum quantity of flour than can be produced in your mill in one day if operated for 24 hours?", the capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

Grain—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

Millfeed—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

Wheat Flour—Includes whole wheat flour, farina, industrial flour, and durum flour.

Stocks of Flour (Quarterly)—Represents mill stocks in all positions, sold and unsold.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501 effective March 1979 and for shipments valued under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus, providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
M20C	Monthly	<i>Confectionery, Including Chocolate Products</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>

CONTACTS FOR DATA USERS

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Foreign Trade publications	Juanita Noone	(301) 763-5140
To order a Census Bureau publication	Customer Services (DUSD)	(301) 449-1600
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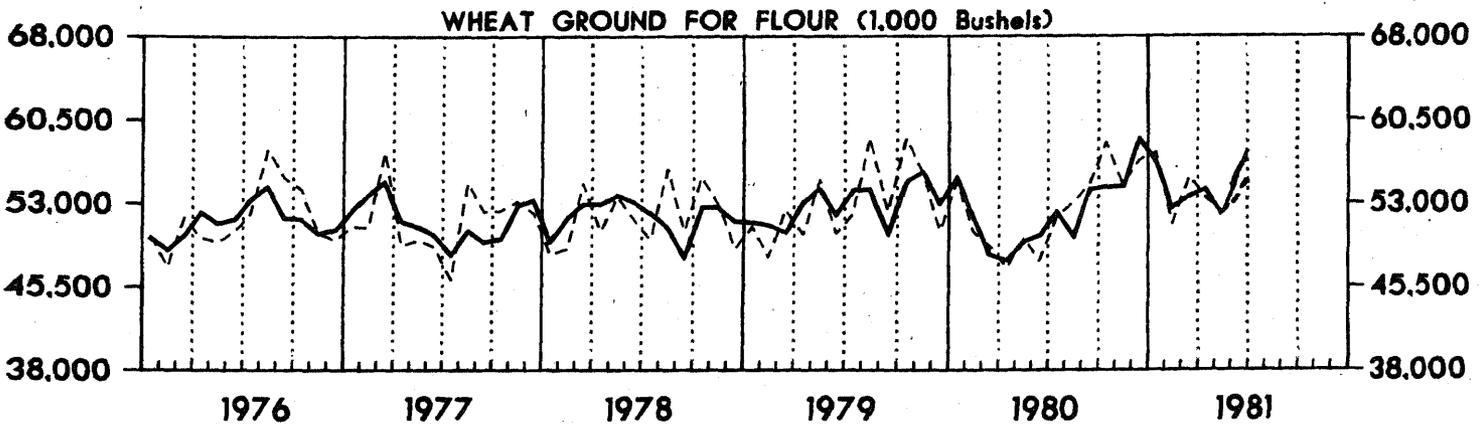
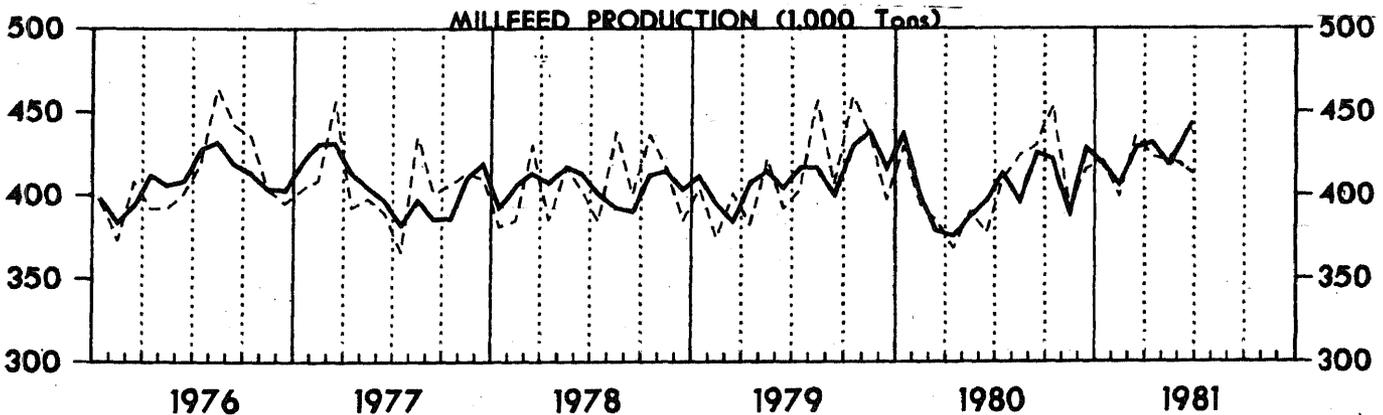
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June (22 days).....	1,068	23,499	414,684	52,523	1,061	100.7	74.6	3,895
May (20 days).....	1,171	23,421	420,038	52,184	1,056	110.9	74.8	(NA)
April (22 days).....	1,089	23,967	423,747	53,402	1,056	103.1	74.8	(NA)
March (22 days).....	1,135	24,959	434,910	55,310	1,056	107.5	75.2	3,897
February (20 days).....	1,139	22,787	399,271	51,084	1,056	107.8	74.3	(NA)
January (21 days).....	1,231	25,860	420,559	57,513	1,056	116.6	74.9	(NA)
1980								
December (22 days).....	1,147	25,232	415,419	56,820	1,056	108.6	74.0	3,842
November (19 days).....	1,197	24,420	392,305	54,582	1,056	113.4	74.6	(NA)
October (23 days).....	1,143	26,285	453,219	58,392	1,056	108.2	75.0	(NA)
September (21 days).....	1,182	24,813	429,851	54,762	1,056	111.9	75.5	3,716
August (21 days).....	1,144	24,025	423,743	52,980	1,056	108.3	75.6	(NA)
July (22 days).....	1,052	23,137	409,644	51,760	1,056	99.6	74.5	(NA)
June (21 days).....	1,017	21,356	377,292	47,786	1,056	96.5	74.5	4,268
May (21 days).....	1,086	22,814	390,185	49,836	1,059	102.5	76.3	(NA)
April (22 days).....	965	21,231	367,709	47,170	1,059	91.1	75.0	(NA)
March (21 days).....	1,055	22,165	384,383	49,104	1,059	99.6	75.2	3,323
February (21 days).....	1,077	22,624	394,095	50,352	1,059	101.7	74.9	(NA)
January (22 days).....	1,116	24,553	429,495	54,955	1,059	105.4	74.5	(NA)
1979								
December (20 days).....	1,137	22,744	396,985	50,643	1,059	107.3	74.9	3,975
November (21 days).....	1,180	24,783	435,838	55,710	1,050	118.0	74.1	(NA)
October (23 days).....	1,137	26,143	458,795	58,904	1,050	108.2	74.0	(NA)
September (19 days).....	1,226	23,285	407,341	52,375	1,050	116.7	74.1	3,813
August (23 days).....	1,145	26,340	456,627	59,006	1,050	109.1	74.4	(NA)
July (21 days).....	1,120	23,513	403,133	52,111	1,050	106.6	75.2	(NA)
June (22 days).....	1,025	22,541	391,196	50,250	1,050	102.2	74.8	3,895
May (22 days).....	1,117	24,578	421,726	55,216	1,057	105.7	74.2	(NA)

(NA) Not available.

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas.²Collected quarterly.³Wheat flour production as compared with amount of wheat ground.

Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	June 1981	May 1981	June 1980
	Durum wheat (included in table 1 data):				
00111 73	Durum wheat ground.....	M bu.....	2,097	2,161	2,729
20411 53	Straight semolina durum flour.....	M cwt.....	908	880	1,160
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	292	277	262
20416 11	Rye flour production.....	M cwt.....	134	121	118
20416 18	Rye millfeed production.....	Tons.....	1,423	1,416	1,231
20416 11	Rye flour stocks ¹	M cwt.....	27	(NA)	12
	24 hour capacity.....	M cwt.....	9	10	11

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	June 1981		May 1981		June 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)
United States.....	52,523	23,499	52,184	23,421	47,786	21,356
Middle Atlantic.....	7,217	3,242	6,828	3,052	6,684	2,962
New York.....	5,744	2,588	5,048	2,260	5,219	2,337
North Central.....	26,716	11,874	26,603	^r 11,948	24,171	10,833
Ohio.....	2,825	1,242	2,544	1,130	2,341	1,031
Indiana.....	1,512	666	1,376	603	1,402	608
Illinois.....	3,267	1,438	3,269	1,436	2,713	1,192
Michigan.....	791	347	852	379	774	336
Minnesota.....	5,358	2,421	5,239	2,379	5,469	2,467
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	2,626	1,193	2,638	1,210	2,641	1,219
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	6,436	2,922	6,420	2,915	5,840	2,641
South Atlantic.....	4,063	1,771	4,025	1,787	3,454	1,504
East South Central.....	2,619	1,162	2,559	1,119	2,362	1,022
Tennessee.....	2,038	915	1,916	847	1,821	786
West South Central.....	4,131	1,942	4,181	1,887	3,598	1,638
Oklahoma.....	1,622	744	1,604	742	1,543	716
Texas.....	1,941	945	1,971	874	1,426	643
Mountain.....	2,750	1,252	2,800	1,295	2,524	1,167
Montana.....	577	259	712	334	527	248
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	5,027	2,256	5,188	2,333	4,993	2,230
Washington.....	1,230	561	1,252	559	1,284	576
Oregon.....	1,058	418	1,017	404	907	406
California and Hawaii.....	2,739	1,277	2,919	1,370	2,802	1,248

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies. ^rRevised.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division: New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division: Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division: Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division: Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division: Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division: Arkansas, Louisiana, Oklahoma, and Texas. West Region: Mountain Division: Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division: Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	May 1981	April 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	370	280	1,718
Peru.....	13	16	58
Chile.....	7	9	78
Morocco.....	119	154	485
Egypt.....	48	-	224
Israel.....	30	4	71
Sri Lanka.....	-	-	40
Philippines.....	60	50	193
Other.....	93	47	569
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	1,724	2,932	9,773
Mexico.....	6	4	61
Jamaica.....	70	30	161
Egypt.....	606	1,815	5,959
Saudi Arabia.....	496	214	1,532
Other.....	546	869	2,060
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	76,032	127,652	586,763
Mexico.....	1,820	4,580	22,216
Venezuela.....	3,406	924	11,887
Colombia.....	808	1,203	5,073
Peru.....	1,894	2,064	14,252
Brazil.....	7,722	8,392	45,234
Chile.....	1,796	2,849	11,085
Portugal.....	-	2,229	9,063
U.S.S.R.....	-	10,283	60,827
Morocco.....	-	-	-
Egypt.....	6,465	9,116	37,376
Bangladesh.....	-	-	-
China (Mainland).....	8,618	17,707	94,845
Korean Republic.....	3,068	10,750	34,612
Indonesia.....	2,963	919	10,688
Philippines.....	1,968	4,898	10,824
Nigeria.....	2,714	4,226	16,787
Other.....	32,790	47,512	201,994

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR
(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹		Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value	Quantity	Value
MAY 1981						
Wheat flour.....	23,421	(NA)	2,094	27,392	8.9	(NA)
APRIL 1981						
Wheat flour.....	23,967	(NA)	3,212	38,075	13.4	(NA)

Comparison of SIC codes (domestic output), Schedule B export codes, and TSUSA import codes is as follows:

SIC (domestic output)

20411

Export

131.4010-131.4040

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers firms engaged in the production of wheat and rye flour.

Sampling Description—The data shown in this publication were collected on Bureau of the Census monthly Form M20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 establishments, representing 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1977 Census of Manufactures. The survey mail panel consists of mills with a daily capacity of over 400 sacks of flour. Data for approximately 200 small establishments are estimated based upon their 1977 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

Survey Error—The figures for the current month include estimates for establishments in the mail panel for which reports were not received in time for tabulation as well as for the small establishments excluded from the mail panel. Missing figures for companies in the mail panel are "imputed" from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for the small establishments excluded from the monthly mail panel. Individual items with imputation rates greater than 12 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements and because the estimates for nonmail cases may or may not reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment—Since January 1975, the data have been adjusted for the number of working days in the reporting period in order to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

Seasonal Adjustment—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B.

The data were seasonally adjusted using the X-11 variant of the Bureau of the Census Method II seasonal adjustment program. The seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

EXPLANATION OF TERMS

Units of Quantity—Grain ground is measured in bushels of 60 pounds for wheat and 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

Capacity—Based on replies to the question, "What is the maximum quantity of flour than can be produced in your mill in one day if operated for 24 hours?", the capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

Grain—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

Millfeed—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

Wheat Flour—Includes whole wheat flour, farina, industrial flour, and durum flour.

Stocks of Flour (Quarterly)—Represents mill stocks in all positions, sold and unsold.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501 effective March 1979 and for shipments valued under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus, providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
M20C	Monthly	<i>Confectionery, Including Chocolate Products</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report M20A	John Streeter	(301) 763-7807
Foreign Trade publications	Juanita Noone	(301) 763-5140
To order a Census Bureau publication	Customer Services (DUSD)	(301) 449-1600
To order Census Bureau microfiche	Maria Brown	(301) 763-5511

From the Bureau of the Census...

a report on how the 1977 economic censuses were taken—

The **History of the 1977 Economic Censuses** chronicles the planning, data collecting, data processing, and publication of 1977 census results. Based on memorandums, interviews, specifications, internal progress reports, and other planning documents, this report is a history of the latest quinquennial censuses of the Nation's economic activity prepared by the Census Bureau for general distribution.

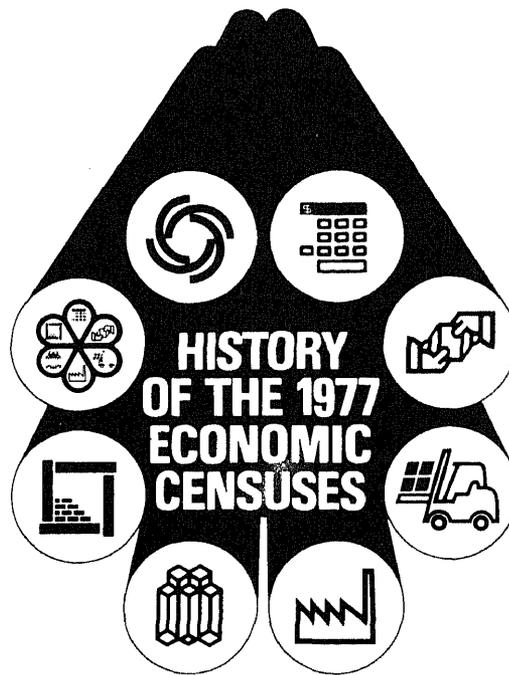
The history covers the censuses of retail trade, wholesale trade, service industries, construction industries, manufactures, mineral industries, transportation, and women-owned businesses; the survey of minority-owned business enterprises and the special survey of women-owned businesses; and the enterprise statistics program. The introduction contains a synopsis of census operations. The publication is illustrated with maps, tables, and charts. Appendixes

present specialized reference materials, including a history of previous economic censuses; a roster of key Census personnel; descriptions of geographic areas covered and codes used; a list of questionnaire forms and facsimiles of selected ones; lists of published census reports; provisions of title

13, United States Code, relating to the 1977 economic censuses; principal advisory committees and conferences on the 1977 censuses; and a glossary of economic terms.

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Flour Milling Products



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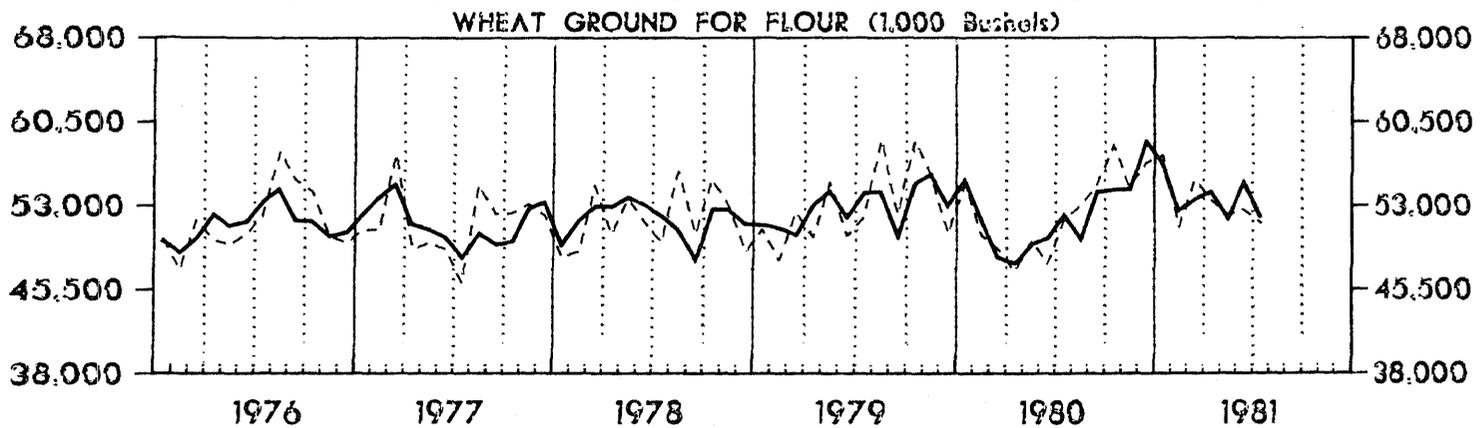
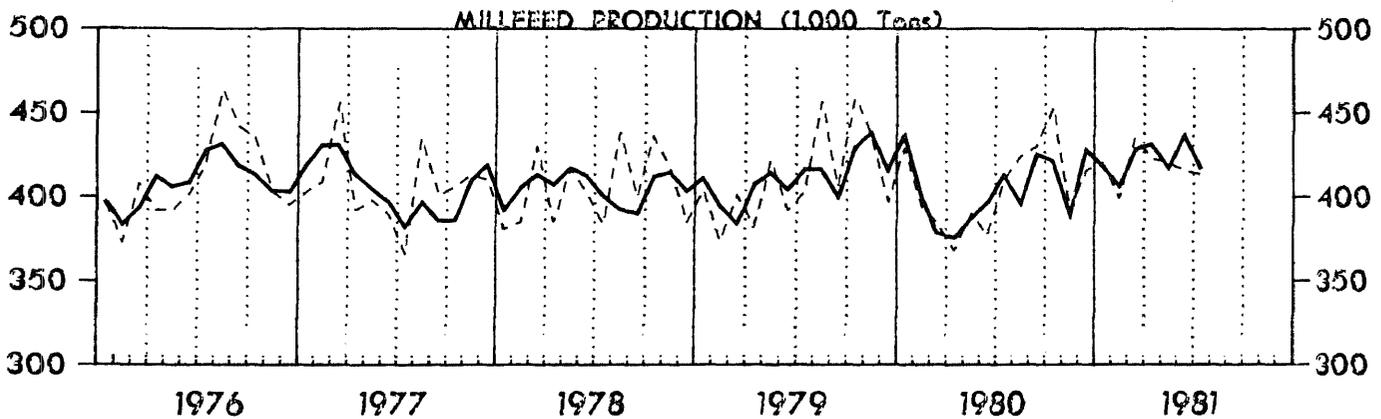
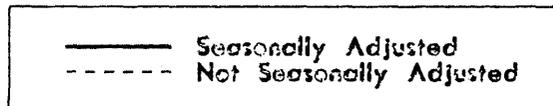
JULY 1981

M20A(81)-7
Issued September 1981

The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose

reports were not received in time for tabulation. A more complete description of the survey appears on page 7.

WHEAT FLOUR MILLING: 1976 TO 1981



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call John Streeter, (301) 763-7807.

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Table 1A. SUMMARY OF WHEAT FLOUR MILLING, SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production average per working day ¹ (1,000 cwt.)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1981			
July.....	1,072	417	51,982
June.....	1,114	437	55,271
May.....	1,161	418	51,976
April.....	1,127	432	54,285
March.....	1,122	429	53,644
February.....	1,122	407	52,655
January.....	1,278	419	56,846
1980			
December.....	1,189	429	58,530
November.....	1,085	391	54,537
October.....	1,142	422	54,498
September.....	1,152	426	54,327
August.....	1,090	397	50,154
July.....	1,108	414	52,329
June.....	1,060	397	50,171
May.....	1,076	388	49,637
April.....	999	376	47,950
March.....	1,043	379	48,451
February.....	1,061	402	51,901
January.....	1,163	438	55,454
1979			
December.....	1,120	423	53,268
November.....	1,148	428	54,545
October.....	1,123	426	54,856
September.....	1,121	410	52,674
August.....	1,150	418	54,184
July.....	1,162	418	53,933
June.....	1,114	407	52,819

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas.

Table 1B. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production (1,000 cwt.)		Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ² (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate ³ (percent)	Wheat flour mill stocks ² (1,000 cwt.)
	Average per working day ¹	Calendar month total						
1981								
July (23 days).....	1,018	23,414	412,745	51,417	1,061	96.0	75.9	(NA)
June (22 days).....	1,069	23,521	415,510	52,643	1,061	100.8	74.5	3,895
May (20 days).....	1,171	23,421	420,038	52,184	1,056	110.9	74.8	(NA)
April (22 days).....	1,089	23,967	423,747	53,402	1,056	103.1	74.8	(NA)
March (22 days).....	1,135	24,959	434,910	55,310	1,056	107.5	75.2	3,897
February (20 days).....	1,139	22,787	399,271	51,084	1,056	107.8	74.3	(NA)
January (21 days).....	1,231	25,860	420,559	57,513	1,056	116.6	74.9	(NA)
1980								
December (22 days).....	1,147	25,232	415,419	56,820	1,056	108.6	74.0	3,842
November (19 days).....	1,197	24,420	392,305	54,582	1,056	113.4	74.6	(NA)
October (23 days).....	1,143	26,285	453,219	58,392	1,056	108.2	75.0	(NA)
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August (21 days).....	1,144	24,025	423,743	52,980	1,056	108.3	75.6	(NA)
July (22 days).....	1,052	23,137	409,644	51,760	1,056	99.6	74.5	(NA)
June (21 days).....	1,017	21,356	377,292	47,786	1,056	96.5	74.5	4,268
May (21 days).....	1,086	22,814	390,185	49,836	1,059	102.5	76.3	(NA)
April (22 days).....	965	21,231	367,709	47,170	1,059	91.1	75.0	(NA)
March (21 days).....	1,055	22,165	384,383	49,104	1,059	99.6	75.2	3,323
February (21 days).....	1,077	22,624	394,095	50,352	1,059	101.7	74.9	(NA)
January (22 days).....	1,116	24,553	429,495	54,955	1,059	105.4	74.5	(NA)
1979								
December (20 days).....	1,137	22,744	396,985	50,643	1,059	107.3	74.9	3,975
November (21 days).....	1,180	24,783	435,838	55,710	1,050	118.0	74.1	(NA)
October (23 days).....	1,137	26,143	458,795	58,904	1,050	108.2	74.0	(NA)
September (19 days).....	1,226	23,285	407,341	52,375	1,050	116.7	74.1	3,813
August (23 days).....	1,145	26,340	456,627	59,006	1,050	109.1	74.4	(NA)
July (21 days).....	1,120	23,513	403,133	52,111	1,050	106.6	75.2	(NA)
June (22 days).....	1,025	22,541	391,196	50,250	1,050	102.2	74.8	3,895

(NA) Not available.

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas.²Collected quarterly.³Wheat flour production as compared with amount of wheat ground.

Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	July 1981	June 1981	July 1980
00111 73	Durum wheat (included in table 1 data):				
	Durum wheat ground.....	M bu.....	2,198	2,116	2,174
20411 53	Straight semolina durum flour.....	M cwt.....	964	917	947
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	306	293	306
20416 11	Rye flour production.....	M cwt.....	132	134	140
20416 18	Rye millfeed production.....	Tons.....	1,685	1,431	1,367
20416 11	Rye flour stocks ¹	M cwt.....	(NA)	27	(NA)
	24 hour capacity.....	M cwt.....	9	9	11

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	July 1981		June 1981		July 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)
United States.....	51,417	23,414	52,643	23,521	51,760	23,137
Middle Atlantic.....	6,273	3,387	7,216	3,202	6,508	2,933
New York.....	4,763	2,705	5,743	2,544	5,162	2,326
North Central.....	26,161	11,575	26,708	11,975	26,795	11,999
Ohio.....	2,890	1,279	2,856	1,257	2,666	1,160
Indiana.....	1,374	556	1,512	666	1,462	634
Illinois.....	3,265	1,426	3,267	1,438	2,964	1,320
Michigan.....	822	363	790	346	735	313
Minnesota.....	5,449	2,484	5,358	2,421	5,711	2,587
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	2,703	1,222	2,627	1,194	3,533	1,604
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	6,335	2,834	6,437	2,911	6,475	2,928
South Atlantic.....	4,087	1,779	4,062	1,771	3,646	1,573
East South Central.....	2,692	1,177	2,657	1,153	2,712	1,186
Tennessee.....	2,124	944	2,076	906	2,034	893
West South Central.....	3,930	1,768	4,073	1,836	3,801	1,718
Oklahoma.....	1,497	685	1,622	744	1,630	759
Texas.....	1,882	841	1,883	839	1,597	706
Mountain.....	2,918	1,328	2,760	1,257	2,789	1,292
Montana.....	699	313	577	259	612	284
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	5,346	2,400	5,167	2,327	5,509	2,436
Washington.....	1,519	675	1,229	561	1,493	664
Oregon.....	1,173	475	1,196	487	955	437
California and Hawaii.....	2,654	1,250	2,742	1,279	3,061	1,335

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division-- Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division-- New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division-- Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division-- Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division-- Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division-- Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division-- Arkansas, Louisiana, Oklahoma, and Texas. West Region: Mountain Division-- Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division-- Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	June 1981	May 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	177	370	1,895
Peru.....	-	13	58
Chile.....	9	7	87
Morocco.....	21	119	506
Egypt.....	11	48	235
Israel.....	-	30	71
Sri Lanka.....	-	-	40
Philippines.....	22	60	215
Other.....	114	93	683
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	2,350	1,724	12,124
Mexico.....	40	6	101
Jamaica.....	53	70	214
Egypt.....	1,924	606	7,884
Saudi Arabia.....	196	496	1,730
Other.....	137	546	2,195
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	124,518	76,032	711,280
Mexico.....	2,703	1,820	24,919
Venezuela.....	1,980	3,406	13,867
Colombia.....	1,482	808	6,556
Peru.....	2,904	1,894	17,156
Brazil.....	12,570	7,722	57,804
Chile.....	5,305	1,796	16,390
Portugal.....	1,762	-	10,826
U.S.S.R.....	-	-	60,827
Morocco.....	7,891	-	7,891
Egypt.....	6,701	6,465	44,077
Bangladesh.....	-	-	-
China (Mainland).....	17,777	8,618	112,622
Korean Republic.....	4,661	3,068	39,273
Indonesia.....	1,777	2,963	12,464
Philippines.....	3,005	1,968	13,829
Nigeria.....	4,440	2,714	22,123
Other.....	49,560	32,790	250,656

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR

(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹		Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value	Quantity	Value
JUNE 1981						
Wheat flour.....	23,521	(NA)	2,527	30,593	10.7	(NA)
MAY 1981						
Wheat flour.....	23,421	(NA)	3,212	27,392	13.7	(NA)

Comparison of SIC codes (domestic output), Schedule B export codes, and TSUSA import codes is as follows:

SIC (domestic output)

Export

20411

131.4010-131.4040

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers firms engaged in the production of wheat and rye flour.

Sampling Description—The data shown in this publication were collected on Bureau of the Census monthly Form M20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 establishments, representing 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1977 Census of Manufactures. The survey mail panel consists of mills with a daily capacity of over 400 sacks of flour. Data for approximately 200 small establishments are estimated based upon their 1977 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

Survey Error—The figures for the current month include estimates for establishments in the mail panel for which reports were not received in time for tabulation as well as for the small establishments excluded from the mail panel. Missing figures for companies in the mail panel are "imputed" from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for the small establishments excluded from the monthly mail panel. Individual items with imputation rates greater than 12 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements and because the estimates for nonmail cases may or may not reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment—Since January 1975, the data have been adjusted for the number of working days in the reporting period in order to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

Seasonal Adjustment—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B.

The data were seasonally adjusted using the X-11 variant of the Bureau of the Census Method II seasonal adjustment program. The seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

EXPLANATION OF TERMS

Units of Quantity—Grain ground is measured in bushels of 60 pounds for wheat and 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

Capacity—Based on replies to the question, "What is the maximum quantity of flour than can be produced in your mill in one day if operated for 24 hours?", the capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

Grain—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

Millfeed—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

Wheat Flour—Includes whole wheat flour, farina, industrial flour, and durum flour.

Stocks of Flour (Quarterly)—Represents mill stocks in all positions, sold and unsold.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501 effective March 1979 and for shipments valued under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus, providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
M20C	Monthly	<i>Confectionery, Including Chocolate Products</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report M20A	John Streeter	(301) 763-7807
Foreign Trade publications	Juanita Noone	(301) 763-5140
To order a Census Bureau publication	Customer Services (DUSD)	(301) 449-1600
To order Census Bureau microfiche	Maria Brown	(301) 763-5511

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The history covers the censuses of retail trade, wholesale trade, service industries, construction industries, manufactures, mineral industries, transportation, and women-owned businesses; the survey of minority-owned business enterprises and the special survey of women-owned businesses; and the enterprise statistics program. The introduction contains a synopsis of census operations. The publication is illustrated with maps, tables, and charts. Appendixes

present specialized reference materials, including a history of previous economic censuses; a roster of key Census personnel; descriptions of geographic areas covered and codes used; a list of questionnaire forms and facsimiles of selected ones; lists of published census reports; provisions of title

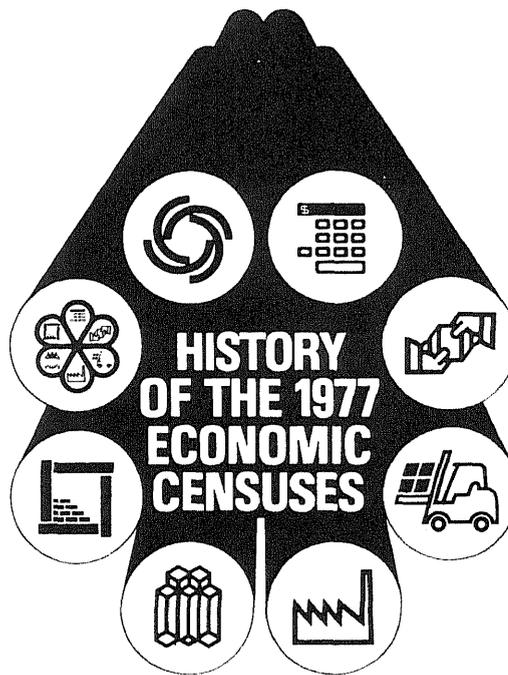
13, United States Code, relating to the 1977 economic censuses; principal advisory committees and conferences on the 1977 censuses; and a glossary of economic terms.

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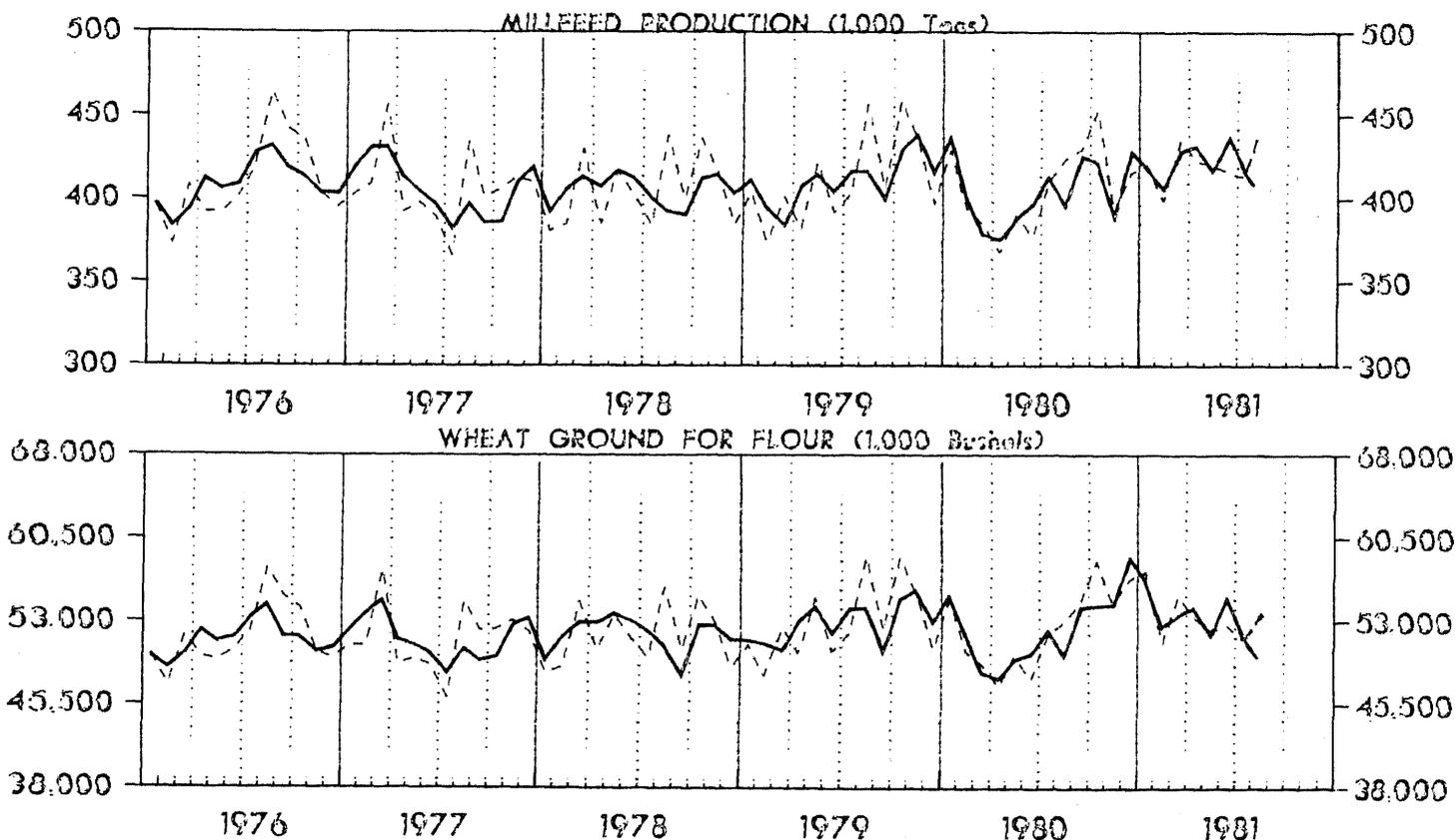
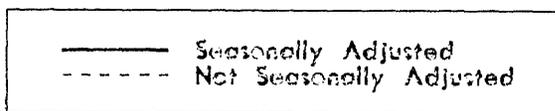
AUGUST 1981

M20A(81)-8
Issued October 1981

The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose

reports were not received in time for tabulation. A more complete description of the survey appears on page 7.

WHEAT FLOUR MILLING: 1976 TO 1981



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call John Streeter, (301) 763-7807.

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Table 1A. SUMMARY OF WHEAT FLOUR MILLING, SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production average per working day ¹ (1,000 cwt.)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1981			
August.....	1,080	405	51,030
July.....	1,069	414	51,757
June.....	1,114	437	55,271
May.....	1,161	418	51,976
April.....	1,127	432	54,285
March.....	1,122	429	53,644
February.....	1,122	407	52,655
January.....	1,278	419	56,846
1980			
December.....	1,189	429	58,530
November.....	1,085	391	54,537
October.....	1,142	422	54,498
September.....	1,152	426	54,327
August.....	1,090	397	50,154
July.....	1,108	414	52,329
June.....	1,060	397	50,171
May.....	1,076	388	49,637
April.....	999	376	47,950
March.....	1,043	379	48,451
February.....	1,061	402	51,901
January.....	1,163	438	55,454
1979			
December.....	1,120	423	53,268
November.....	1,148	428	54,545
October.....	1,123	426	54,856
September.....	1,121	410	52,674
August.....	1,150	418	54,184
July.....	1,162	418	53,933

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas.

Table 1B. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production (1,000 cwt.)		Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ² (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate ³ (percent)	Wheat flour mill stocks ² (1,000 cwt.)
	Average per working day ¹	Calendar month total						
1981								
August (21 days).....	1,134	23,810	432,299	53,905	1,061	106.9	73.6	(NA)
July (23 days).....	1,015	23,342	410,361	51,194	1,061	95.7	76.0	(NA)
June (22 days).....	1,069	23,521	415,510	52,643	1,061	100.8	74.5	3,895
May (20 days).....	1,171	23,421	420,038	52,184	1,056	110.9	74.8	(NA)
April (22 days).....	1,089	23,967	423,747	53,402	1,056	103.1	74.8	(NA)
March (22 days).....	1,135	24,959	434,910	55,310	1,056	107.5	75.2	3,897
February (20 days).....	1,139	22,787	399,271	51,084	1,056	107.8	74.3	(NA)
January (21 days).....	1,231	25,860	420,559	57,513	1,056	116.6	74.9	(NA)
1980								
December (22 days).....	1,147	25,232	415,419	56,820	1,056	108.6	74.0	3,842
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May (21 days).....	1,086	22,814	390,185	49,836	1,059	102.5	76.3	(NA)
April (22 days).....	965	21,231	367,709	47,170	1,059	91.1	75.0	(NA)
March (21 days).....	1,055	22,165	384,383	49,104	1,059	99.6	75.2	3,323
February (21 days).....	1,077	22,624	394,095	50,352	1,059	101.7	74.9	(NA)
January (22 days).....	1,116	24,553	429,495	54,955	1,059	105.4	74.5	(NA)
1979								
December (20 days).....	1,137	22,744	396,985	50,643	1,059	107.3	74.9	3,975
November (21 days).....	1,180	24,783	435,838	55,710	1,050	118.0	74.1	(NA)
October (23 days).....	1,137	26,143	458,795	58,904	1,050	108.2	74.0	(NA)
September (19 days).....	1,226	23,285	407,341	52,375	1,050	116.7	74.1	3,813
August (23 days).....	1,145	26,340	456,627	59,006	1,050	109.1	74.4	(NA)
July (21 days).....	1,120	23,513	403,133	52,111	1,050	106.6	75.2	(NA)

(NA) Not available.

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas.

²Collected quarterly.

³Wheat flour production as compared with amount of wheat ground.

Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	August 1981	July 1981	August 1980
00111 73	Durum wheat (included in table 1 data):				
	Durum wheat ground.....	M bu.....	2,970	2,188	3,187
20411 53	Straight semolina durum flour.....	M cwt.....	1,290	957	1,384
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	260	306	273
20416 11	Rye flour production.....	M cwt.....	122	132	125
20416 18	Rye millfeed production.....	Tons.....	1,213	1,744	1,310
20416 11	Rye flour stocks ¹	M cwt.....	(NA)	(NA)	(NA)
	24 hour capacity.....	M cwt.....	9	9	11

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	August 1981		July 1981		August 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)
United States.....	53,905	23,810	51,194	23,342	52,980	24,025
Middle Atlantic.....	6,998	3,119	6,270	3,392	6,856	3,111
New York.....	5,253	2,330	4,760	2,703	5,443	2,453
North Central.....	28,475	12,243	26,231	11,595	27,917	12,556
Ohio.....	3,016	1,334	2,890	1,279	2,841	1,252
Indiana.....	1,486	561	1,472	556	1,340	587
Illinois.....	3,725	1,635	3,420	1,517	3,199	1,431
Michigan.....	894	387	846	370	804	323
Minnesota.....	6,137	2,777	5,400	2,421	6,182	2,827
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	2,716	1,152	2,703	1,222	3,403	1,570
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	5,859	2,622	6,267	2,810	6,393	2,917
South Atlantic.....	4,119	1,796	4,087	1,779	3,818	1,685
East South Central.....	2,813	1,285	2,648	1,152	2,738	1,208
Tennessee.....	2,229	1,036	2,080	919	2,131	949
West South Central.....	3,594	1,601	3,944	1,775	3,746	1,617
Oklahoma.....	1,318	607	1,498	687	1,517	705
Texas.....	1,707	747	1,895	847	1,674	665
Mountain.....	3,002	1,365	2,918	1,328	2,925	1,368
Montana.....	727	330	699	313	679	317
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,904	2,401	5,096	2,321	4,980	2,480
Washington.....	1,497	665	1,519	675	1,421	632
Oregon.....	986	449	^r 992	452	988	452
California and Hawaii.....	2,764	1,267	2,585	1,194	2,571	1,361

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies. ^r Revised.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division-- Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division-- New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division-- Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division-- Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division-- Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division-- Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division-- Arkansas, Louisiana, Oklahoma, and Texas. West Region: Mountain Division-- Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division-- Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	July 1981	June 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	213	177	2,108
Peru.....	-	-	58
Chile.....	15	9	102
Morocco.....	68	21	574
Egypt.....	80	11	315
Israel.....	16	-	86
Sri Lanka.....	-	-	40
Philippines.....	-	22	215
Other.....	34	114	758
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	987	2,350	13,111
Mexico.....	37	40	138
Jamaica.....	81	53	295
Egypt.....	511	1,924	8,395
Saudi Arabia.....	74	196	1,804
Other.....	284	137	2,479
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	138,146	124,518	849,426
Mexico.....	3,403	2,703	28,322
Venezuela.....	3,779	1,980	17,646
Colombia.....	2,179	1,482	8,734
Peru.....	1,980	2,904	19,136
Brazil.....	7,336	12,570	65,140
Chile.....	4,240	5,305	20,631
Portugal.....	4,818	1,762	15,643
U.S.S.R.....	-	-	60,827
Morocco.....	5,339	7,891	13,230
Egypt.....	6,467	6,701	50,544
Bangladesh.....	-	-	-
China (Mainland).....	31,841	17,777	144,463
Korean Republic.....	5,567	4,661	44,840
Indonesia.....	2,906	1,777	15,371
Philippines.....	3,008	3,005	16,837
Nigeria.....	2,572	4,440	23,799
Other.....	52,711	49,560	304,263

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR

(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹		Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value	Quantity	Value
JULY 1981						
Wheat flour.....	23,342	(NA)	1,200	13,252	5.1	(NA)
JUNE 1981						
Wheat flour.....	23,521	(NA)	2,527	30,593	10.7	(NA)

Comparison of SIC code (domestic output) with Schedule B export codes is as follows:

<u>SIC (domestic output)</u>	<u>Export</u>
20411	131.4010-131.4040

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers firms engaged in the production of wheat and rye flour.

Sampling Description—The data shown in this publication were collected on Bureau of the Census monthly Form M20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 establishments, representing 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1977 Census of Manufactures. The survey mail panel consists of mills with a daily capacity of over 400 sacks of flour. Data for approximately 200 small establishments are estimated based upon their 1977 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

Survey Error—The figures for the current month include estimates for establishments in the mail panel for which reports were not received in time for tabulation as well as for the small establishments excluded from the mail panel. Missing figures for companies in the mail panel are "imputed" from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for the small establishments excluded from the monthly mail panel. Individual items with imputation rates greater than 12 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements and because the estimates for nonmail cases may or may not reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment—Since January 1975, the data have been adjusted for the number of working days in the reporting period in order to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

Seasonal Adjustment—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B.

The data were seasonally adjusted using the X-11 variant of the Bureau of the Census Method II seasonal adjustment program. The seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

EXPLANATION OF TERMS

Units of Quantity—Grain ground is measured in bushels of 60 pounds for wheat and 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

Capacity—Based on replies to the question, "What is the maximum quantity of flour than can be produced in your mill in one day if operated for 24 hours?", the capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

Grain—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

Millfeed—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

Wheat Flour—Includes whole wheat flour, farina, industrial flour, and durum flour.

Stocks of Flour (Quarterly)—Represents mill stocks in all positions, sold and unsold.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501 effective March 1979 and for shipments valued under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus, providing a single reference copy to replace the monthly publications. The annual summary provides additional information on the history of this survey.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
M20C	Monthly	<i>Confectionery, Including Chocolate Products</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>

CONTACTS FOR DATA USERS

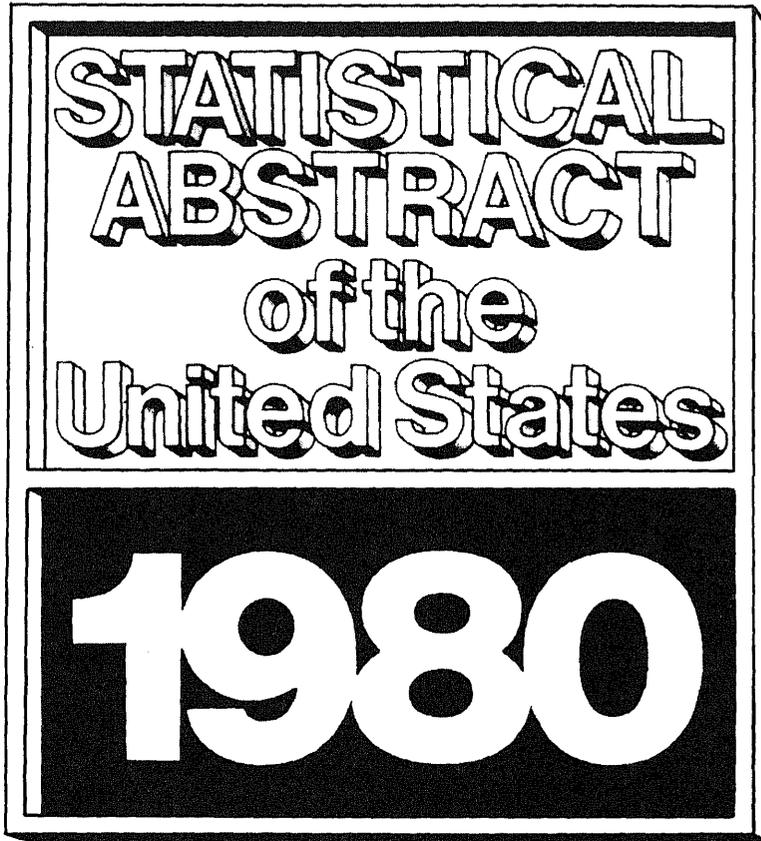
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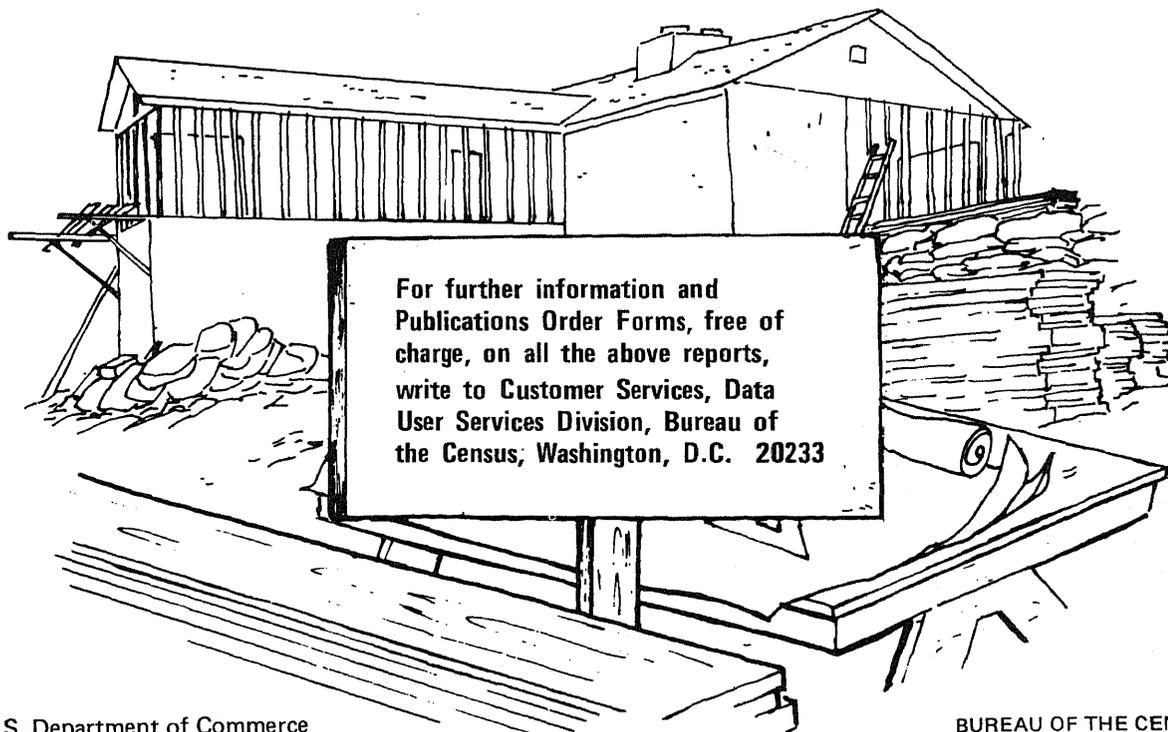
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CURRENT INDUSTRIAL REPORTS

Flour Milling Products

SEPTEMBER 1981



U.S. Department of Commerce
BUREAU OF THE CENSUS

M20A(81)-9
Issued November 1981

The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A descrip-

tion of the survey methodology and related information may be found in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

Table 1. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production, calendar month total (1,000 cwt.)	Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ¹ (1,000 cwt.)	Flour extraction rate ² (percent)	Wheat flour mill stocks ¹ (1,000 cwt.)
1981						
September.....	24,842	448,679	56,014	1,058	73.9	4,222
August.....	23,665	431,165	53,323	1,061	74.0	(NA)
July.....	23,342	410,361	51,194	1,061	76.0	(NA)
June.....	23,521	415,510	52,643	1,061	74.5	3,895
May.....	23,421	420,038	52,184	1,056	74.8	(NA)
April.....	23,967	423,747	53,402	1,056	74.8	(NA)
March.....	24,959	434,910	55,310	1,056	75.2	3,897
February.....	22,787	399,271	51,084	1,056	74.3	(NA)
January.....	25,860	420,559	57,513	1,056	74.9	(NA)
1980						
December.....	25,232	415,419	56,820	1,056	74.0	3,842
November.....	24,420	392,305	54,482	1,056	74.6	(NA)
October.....	26,285	453,219	58,392	1,056	75.0	(NA)
September.....	24,813	429,851	54,762	1,056	75.5	3,716
August.....	24,025	423,743	52,980	1,056	75.6	(NA)
July.....	23,137	409,644	51,760	1,056	74.5	(NA)
June.....	21,356	377,292	47,786	1,056	74.5	4,268
May.....	22,814	390,185	49,836	1,059	76.3	(NA)
April.....	21,231	367,709	47,170	1,059	75.0	(NA)
March.....	22,165	384,383	49,104	1,059	75.2	3,323
February.....	22,624	394,095	50,352	1,059	74.9	(NA)
January.....	24,553	429,495	54,955	1,059	74.5	(NA)
1979						
December.....	22,744	396,985	50,643	1,059	74.9	3,975
November.....	24,783	435,838	55,710	1,050	74.1	(NA)
October.....	26,143	458,795	58,904	1,050	74.0	(NA)
September.....	23,285	407,341	52,375	1,050	74.1	3,813
August.....	26,340	456,627	59,006	1,050	74.4	(NA)

(NA) Not available.

¹Collected quarterly.

²Wheat flour production as compared with amount of wheat ground.

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Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	September 1981	August 1981	September 1980
00111 73	Durum wheat (included in table 1 data):				
	Durum wheat ground.....	M bu.....	2,963	2,902	2,804
20411 53	Straight semolina durum flour.....	M cwt.....	1,276	1,253	1,233
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	311	260	309
20416 11	Rye flour production.....	M cwt.....	141	122	143
20416 18	Rye millfeed production.....	Tons.....	1,495	1,213	1,431
20416 11	Rye flour stocks ¹	M cwt.....	70	(NA)	11
	24 hour capacity.....	M cwt.....	9	9	10

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	September 1981		August 1981		September 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)
United States.....	56,014	24,842	53,323	23,665	54,762	24,813
Middle Atlantic.....	7,412	3,295	6,998	3,119	7,055	3,163
New York.....	5,548	2,473	5,222	2,330	5,521	2,476
North Central.....	28,869	12,756	27,486	12,162	28,923	12,977
Ohio.....	3,236	1,417	3,022	1,335	3,321	1,476
Indiana.....	1,638	712	^r 1,356	585	1,534	670
Illinois.....	3,706	1,621	^r 3,456	^r 1,514	3,453	1,530
Michigan.....	1,039	449	905	390	831	359
Minnesota.....	6,153	2,766	6,109	2,762	6,399	2,917
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	3,003	1,346	2,714	1,214	3,483	1,589
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	5,612	2,480	5,548	2,466	6,225	2,805
South Atlantic.....	4,408	1,915	4,119	1,796	3,587	1,672
East South Central.....	3,125	1,340	2,813	1,223	2,824	1,242
Tennessee.....	2,540	1,096	2,229	974	2,170	960
West South Central.....	3,717	1,660	3,578	1,594	3,965	1,791
Oklahoma.....	(D)	(D)	1,318	607	1,638	766
Texas.....	1,835	787	1,688	738	1,725	759
Mountain.....	3,177	1,456	3,002	1,365	2,951	1,400
Montana.....	785	362	727	330	713	329
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	5,306	2,420	5,327	2,406	5,457	2,568
Washington.....	1,357	607	1,497	665	1,366	611
Oregon.....	927	419	^r 912	^r 398	1,017	462
California and Hawaii.....	3,022	1,394	2,918	^r 1,343	3,074	1,495

Note: ¹Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies. ^rRevised.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division-- Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division-- New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division-- Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division-- Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division-- Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division-- Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division-- Arkansas, Louisiana, Oklahoma, and Texas. West Region: Mountain Division-- Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division-- Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	August 1981	July 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	90	213	2,197
Peru.....	24	-	82
Chile.....	12	15	114
Morocco.....	3	68	577
Egypt.....	-	80	315
Israel.....	4	16	90
Sri Lanka.....	-	-	40
Philippines.....	11	-	226
Other.....	36	34	753
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	1,420	987	14,531
Mexico.....	20	37	158
Jamaica.....	85	81	381
Egypt.....	-	511	8,395
Saudi Arabia.....	178	74	1,982
Other.....	1,137	284	3,615
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	145,428	138,146	994,855
Mexico.....	977	3,403	29,299
Venezuela.....	3,518	3,779	21,164
Colombia.....	2,730	2,179	11,465
Peru.....	2,825	1,980	21,961
Brazil.....	12,077	7,336	77,217
Chile.....	4,806	4,240	25,437
Portugal.....	-	4,818	15,643
U.S.S.R.....	3,449	-	64,276
Morocco.....	1,809	5,339	15,039
Egypt.....	4,508	6,467	55,052
Bangladesh.....	6,744	-	6,744
China (Mainland).....	25,690	31,841	170,153
Korean Republic.....	3,484	5,567	48,324
Indonesia.....	2,989	2,906	18,360
Philippines.....	3,896	3,008	20,733
Nigeria.....	4,965	2,572	28,765
Other.....	60,961	52,711	365,223

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR
(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹			Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value at port	Estimated producers' value ²	Quantity	Value
AUGUST 1981							
Wheat flour.....	23,665	(NA)	1,510	17,945	15,802	6.4	(NA)
JULY 1981							
Wheat flour.....	23,342	(NA)	1,200	13,252	11,670	5.1	(NA)

Comparison of SIC codes (domestic output), Schedule B export codes, and TSUSA import codes is shown in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8806 for industry group 204) are based on data for 1977 which are published in MC77-SR-12, Origin of Exports of Manufactured Products, appendix B.

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CURRENT INDUSTRIAL REPORTS

Flour Milling Products



U.S. Department of Commerce
BUREAU OF THE CENSUS

OCTOBER 1981

M20A(81)-10
Issued December 1981

The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A descrip-

tion of the survey methodology and related information may be found in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

Table 1. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production, calendar month total (1,000 cwt.)	Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ¹ (1,000 cwt.)	Wheat flour mill stocks ¹ (1,000 cwt.)
1981					
October.....	24,753	440,721	55,627	1,061	(NA)
September.....	24,189	435,956	54,589	1,061	4,222
August.....	23,665	431,165	53,323	1,061	(NA)
July.....	23,342	410,361	51,194	1,061	(NA)
June.....	23,521	415,510	52,643	1,061	3,895
May.....	23,421	420,038	52,184	1,056	(NA)
April.....	23,967	423,747	53,402	1,056	(NA)
March.....	24,959	434,910	55,310	1,056	3,897
February.....	22,787	399,271	51,084	1,056	(NA)
January.....	25,860	420,559	57,513	1,056	(NA)
1980					
December.....	25,232	415,419	56,820	1,056	3,842
November.....	24,420	392,305	54,482	1,056	(NA)
October.....	26,285	453,219	58,392	1,056	(NA)
September.....	24,813	429,851	54,762	1,056	3,716
August.....	24,025	423,743	52,980	1,056	(NA)
July.....	23,137	409,644	51,760	1,056	(NA)
June.....	21,356	377,292	47,786	1,056	4,268
May.....	22,814	390,185	49,836	1,059	(NA)
April.....	21,231	367,709	47,170	1,059	(NA)
March.....	22,165	384,383	49,104	1,059	3,323
February.....	22,624	394,095	50,352	1,059	(NA)
January.....	24,553	429,495	54,955	1,059	(NA)
1979					
December.....	22,744	396,985	50,643	1,059	3,975
November.....	24,783	435,838	55,710	1,050	(NA)
October.....	26,143	458,795	58,904	1,050	(NA)
September.....	23,285	407,341	52,375	1,050	3,813

(NA) Not available.

¹Collected quarterly.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call John Streeter, (301) 763-7807.

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Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	October 1981	September 1981	October 1980
	Durum wheat (included in table 1 data):				
00111 73	Durum wheat ground.....	M bu.....	2,964	2,963	2,932
20411 53	Straight semolina durum flour.....	M cwt.....	1,300	1,276	1,265
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	306	311	326
20416 11	Rye flour production.....	M cwt.....	139	141	148
20416 18	Rye millfeed production.....	Tons.....	1,385	1,495	1,591
20416 11	Rye flour stocks ¹	M cwt.....	(NA)	70	(NA)
	24 hour capacity.....	M cwt.....	9	9	11

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	October 1981		September 1981		October 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 bushels)
United States.....	55,627	24,753	54,589	24,189	58,392	26,285
Middle Atlantic.....	7,311	3,258	7,157	3,182	7,647	3,453
New York.....	5,649	2,521	5,548	2,473	6,006	2,705
North Central.....	28,694	12,737	28,081	12,389	30,913	13,865
Ohio.....	3,500	1,538	3,236	1,415	3,648	1,602
Indiana.....	1,862	815	1,735	755	1,694	741
Illinois.....	3,670	1,606	3,572	1,556	3,571	1,581
Michigan.....	1,138	503	1,059	458	1,008	440
Minnesota.....	6,022	2,737	6,087	2,738	7,113	3,224
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	3,302	1,477	3,003	1,346	4,022	1,844
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	5,690	2,524	5,502	2,432	6,322	2,856
South Atlantic.....	4,163	1,821	4,203	1,836	3,906	1,700
East South Central.....	3,184	1,374	3,110	1,340	2,668	1,196
Tennessee.....	2,568	1,118	2,525	1,096	2,137	949
West South Central.....	3,429	1,538	3,642	1,627	3,807	1,677
Oklahoma.....	(D)	(D)	(D)	(D)	1,640	765
Texas.....	1,646	730	^r 1,719	754	1,587	651
Mountain.....	3,433	1,574	3,115	1,421	3,380	1,552
Montana.....	846	382	^r 723	^r 327	822	372
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	5,413	2,451	5,281	2,394	6,071	2,842
Washington.....	1,450	646	1,357	607	1,692	751
Oregon.....	1,001	444	^r 1,036	^r 465	1,092	496
California and Hawaii.....	2,962	1,361	2,888	1,322	3,287	1,595

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies. ^rRevised.

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Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	September 1981	August 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	361	90	2,556
Peru.....	5	24	87
Chile.....	5	12	119
Morocco.....	216	3	793
Egypt.....	58	-	373
Israel.....	-	4	90
Sri Lanka.....	-	-	40
Philippines.....	41	11	267
Other.....	36	36	787
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1214040) (1,000 cwt.)			
Total.....	724	1,420	15,219
Mexico.....	4	20	162
Jamaica.....	56	85	436
Egypt.....	-	-	8,395
Saudi Arabia.....	489	178	2,471
Other.....	175	1,137	3,755
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	194,148	145,428	1,189,002
Mexico.....	3,389	977	32,688
Venezuela.....	3,335	3,518	24,499
Colombia.....	2,393	2,730	13,858
Peru.....	1,929	2,825	23,890
Brazil.....	13,932	12,077	91,149
Chile.....	3,187	4,806	28,623
Portugal.....	2,303	-	17,946
U.S.S.R.....	23,966	3,449	88,242
Morocco.....	5,413	1,809	20,451
Egypt.....	4,778	4,508	59,830
Bangladesh.....	995	6,744	7,739
China (Mainland).....	31,485	25,690	201,638
Korean Republic.....	6,552	3,484	54,876
Indonesia.....	2,933	2,989	21,294
Philippines.....	2,025	3,896	22,757
Nigeria.....	2,970	4,965	31,734
Other.....	82,563	60,961	447,788

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR
(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹			Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value at port	Estimated producers' value ²	Quantity	Value
SEPTEMBER 1981							
Wheat flour.....	24,753	(NA)	1,085	15,102	13,299	4.4	(NA)
AUGUST 1981							
Wheat flour.....	23,665	(NA)	1,510	17,945	15,802	6.4	(NA)

Comparison of SIC codes (domestic output), Schedule B export codes, and TSUSA import codes is shown in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (.8806 for industry group 204) are based on data for 1977 which are published in MC77-SR-12, Origin of Exports of Manufactured Products, appendix B.

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CURRENT INDUSTRIAL REPORTS

Flour Milling Products



U.S. Department of Commerce
BUREAU OF THE CENSUS

NOVEMBER 1981

M20A(81)-11
Issued January 1982

The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A descrip-

tion of the survey methodology and related information may be found in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

Table 1. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production, calendar month total (1,000 cwt.)	Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ¹ (1,000 cwt.)	Wheat flour mill stocks ¹ (1,000 cwt.)
1981					
November.....	22,978	411,755	51,116	1,061	(NA)
October.....	24,712	440,419	55,552	1,061	(NA)
September.....	24,189	435,956	54,589	1,061	4,222
August.....	23,665	431,165	53,323	1,061	(NA)
July.....	23,342	410,361	51,194	1,061	(NA)
June.....	23,521	415,510	52,643	1,061	3,895
May.....	23,421	420,038	52,184	1,056	(NA)
April.....	23,967	423,747	53,402	1,056	(NA)
March.....	24,959	434,910	55,310	1,056	3,897
February.....	22,787	399,271	51,084	1,056	(NA)
January.....	25,860	420,559	57,513	1,056	(NA)
1980					
December.....	25,232	415,419	56,820	1,056	3,842
November.....	24,420	392,305	54,482	1,056	(NA)
October.....	26,285	453,219	58,392	1,056	(NA)
September.....	24,813	429,851	54,762	1,056	3,716
August.....	24,025	423,743	52,980	1,056	(NA)
July.....	23,137	409,644	51,760	1,056	(NA)
June.....	21,356	377,292	47,786	1,056	4,268
May.....	22,814	390,185	49,836	1,059	(NA)
April.....	21,231	367,709	47,170	1,059	(NA)
March.....	22,165	384,383	49,104	1,059	3,323
February.....	22,624	394,095	50,352	1,059	(NA)
January.....	24,553	429,495	54,955	1,059	(NA)
1979					
December.....	22,744	396,985	50,643	1,059	3,975
November.....	24,783	435,838	55,710	1,050	(NA)
October.....	26,143	458,795	58,904	1,050	(NA)

(NA) Not available.

¹Collected quarterly.

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Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	November 1981	October 1981	November 1980
	Durum wheat (included in table 1 data):				
00111 73	Durum wheat ground.....	M bu.....	2,748	2,933	2,476
20411 53	Straight semolina durum flour.....	M cwt.....	1,213	1,286	1,064
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	273	306	321
20416 11	Rye flour production.....	M cwt.....	127	139	155
20416 18	Rye millfeed production.....	Tons.....	1,275	1,385	1,583
20416 11	Rye flour stocks ¹	M cwt.....	(NA)	(NA)	(NA)
	24 hour capacity.....	M cwt.....	9	9	11

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	November 1981		October 1981		November 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 bushels)
United States.....	51,116	22,978	55,552	24,712	54,582	24,420
Middle Atlantic.....	6,951	3,133	7,311	3,258	7,123	3,182
New York.....	5,180	2,350	5,649	2,521	5,502	2,458
North Central.....	25,407	11,387	28,713	12,742	26,329	11,851
Ohio.....	3,029	1,342	3,500	1,538	2,919	1,296
Indiana.....	1,569	706	1,859	817	1,361	589
Illinois.....	3,153	1,392	3,670	1,606	3,104	1,384
Michigan.....	941	412	1,138	503	787	346
Minnesota.....	5,283	2,372	6,039	2,737	5,872	2,656
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	2,806	1,305	3,302	1,477	2,906	1,334
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	5,073	2,287	5,690	2,523	5,995	2,741
South Atlantic.....	4,057	1,800	4,163	1,820	3,643	1,605
East South Central.....	2,855	1,281	3,184	1,374	2,523	1,122
Tennessee.....	2,409	1,088	2,568	1,118	1,994	888
West South Central.....	3,491	1,573	3,427	1,535	3,759	1,536
Oklahoma.....	(D)	(D)	(D)	(D)	1,359	635
Texas.....	1,771	786	1,644	727	1,941	696
Mountain.....	3,209	1,460	3,433	1,574	2,957	1,365
Montana.....	830	369	846	382	675	308
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	5,146	2,344	5,321	2,409	8,248	3,759
Washington.....	1,363	599	1,450	646	1,376	600
Oregon.....	954	422	944	418	837	371
California and Hawaii.....	2,829	1,323	2,927	1,345	6,035	2,788

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division-- Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division-- New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division-- Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division-- Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division-- Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division-- Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division-- Arkansas, Louisiana, Oklahoma and Texas. West Region: Mountain Division-- Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division-- Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	October 1981	September 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	90	361	2,646
Peru.....	14	5	101
Chile.....	20	5	139
Morocco.....	9	216	802
Egypt.....	21	58	394
Israel.....	5	-	95
Sri Lanka.....	-	-	40
Philippines.....	-	41	267
Other.....	21	36	808
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	284	724	15,538
Mexico.....	99	4	262
Jamaica.....	8	56	444
Egypt.....	-	-	8,395
Saudi Arabia.....	42	489	2,512
Other.....	135	175	3,925
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	156,902	194,148	1,345,904
Mexico.....	1,936	3,389	34,624
Venezuela.....	1,280	3,335	25,779
Colombia.....	1,455	2,393	15,312
Peru.....	5,797	1,929	29,687
Brazil.....	6,807	13,932	97,956
Chile.....	3,399	3,187	32,022
Portugal.....	1,157	2,303	19,104
U.S.S.R.....	16,832	23,966	105,074
Morocco.....	-	5,413	20,451
Egypt.....	4,522	4,778	64,351
Bangladesh.....	-	995	7,739
China (Mainland).....	30,542	31,485	232,180
Korean Republic.....	6,247	6,552	61,123
Indonesia.....	3,246	2,933	24,540
Philippines.....	3,995	2,025	26,752
Nigeria.....	3,483	2,970	35,217
Other.....	66,204	82,563	513,993

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR
(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹			Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value at port	Estimated producers' value ²	Quantity	Value
OCTOBER 1981							
Wheat flour.....	24,712	(NA)	374	3,637	3,203	1.5	(NA)
SEPTEMBER 1981							
Wheat flour.....	24,189	(NA)	1,085	15,102	13,299	4.4	(NA)

Comparison of SIC codes (domestic output), Schedule B export codes, and TSUSA import codes is shown in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (.8806 for industry group 204) are based on data for 1977 which are published in MC77-SR-12, Origin of Exports of Manufactured Products, appendix B.

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Flour Milling Products



U.S. Department of Commerce
BUREAU OF THE CENSUS

DECEMBER 1981

M20A(81)-12
Issued February 1982

The statistics in this publication are based on a survey of flour mills and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A descrip-

tion of the survey methodology and related information may be found in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

Table 1. SUMMARY OF WHEAT FLOUR MILLING, NOT SEASONALLY ADJUSTED: 1979 TO 1981

Month and year	Wheat flour production, calendar month total (1,000 cwt.)	Mill feed production (tons)	Wheat ground for flour (1,000 bushels)	Daily 24-hour capacity in wheat flour ¹ (1,000 cwt.)	Wheat flour mill stocks ¹ (1,000 cwt.)
1981					
December.....	22,550	402,335	49,968	1,061	3,460
November.....	22,835	409,743	50,982	1,061	(NA)
October.....	24,712	440,419	55,552	1,061	(NA)
September.....	24,189	435,956	54,589	1,061	4,222
August.....	23,665	431,165	53,323	1,061	(NA)
July.....	23,342	410,361	51,194	1,061	(NA)
June.....	23,521	415,510	52,643	1,061	3,895
May.....	23,421	420,038	52,184	1,056	(NA)
April.....	23,967	423,747	53,402	1,056	(NA)
March.....	24,959	434,910	55,310	1,056	3,897
February.....	22,787	399,271	51,084	1,056	(NA)
January.....	25,860	420,559	57,513	1,056	(NA)
1980					
December.....	25,232	415,419	56,820	1,056	3,842
November.....	24,420	392,305	54,582	1,056	(NA)
October.....	26,285	453,219	58,392	1,056	(NA)
September.....	24,813	429,851	54,762	1,056	3,716
August.....	24,025	423,743	52,980	1,056	(NA)
July.....	23,137	409,644	51,760	1,056	(NA)
June.....	21,356	377,292	47,786	1,056	4,268
May.....	22,814	390,185	49,836	1,059	(NA)
April.....	21,231	367,709	47,170	1,059	(NA)
March.....	22,165	384,383	49,104	1,059	3,323
February.....	22,624	394,095	50,352	1,059	(NA)
January.....	24,553	429,495	54,955	1,059	(NA)
1979					
December.....	22,744	396,985	50,643	1,059	3,975
November.....	24,783	435,838	55,710	1,050	(NA)

(NA) Not available.

¹Collected quarterly.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call John Streeter, (301) 763-7807.

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Table 2. QUANTITY OF DURUM WHEAT AND RYE FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS, AND CAPACITY

Product code	Description of item	Unit of measure	December 1981	November 1981	December 1980
	Durum wheat (included in table 1 data):				
00111 73	Durum wheat ground.....	M bu.....	2,675	2,748	2,474
20411 53	Straight semolina durum flour.....	M cwt.....	1,181	1,213	1,068
20411 55	Blended semolina durum flour.....	M cwt.....	(D)	(D)	(D)
	Rye:				
00119 51	Rye ground for flour.....	M bu.....	309	273	313
20416 11	Rye flour production.....	M cwt.....	137	127	143
20416 18	Rye millfeed production.....	Tons.....	1,394	1,275	1,524
20416 11	Rye flour stocks ¹	M cwt.....	13	(NA)	12
	24 hour capacity.....	M cwt.....	9	9	10

Note: These data exclude flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

¹Collected quarterly.

Table 3. QUANTITY OF WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION, BY DIVISION AND STATE

Geographic area ¹	December 1981		November 1981		December 1980	
	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production	Wheat ground for flour	Wheat flour production
	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 cwt.)	(1,000 bushels)	(1,000 bushels)
United States.....	49,968	22,550	50,982	22,835	56,820	25,232
Middle Atlantic.....	7,085	3,164	6,951	3,133	7,306	3,293
New York.....	5,540	2,480	5,180	2,350	5,764	2,602
North Central.....	24,055	11,095	25,274	11,244	27,321	12,058
Ohio.....	2,493	1,093	2,955	1,298	2,802	1,223
Indiana.....	1,545	677	1,495	653	1,528	663
Illinois.....	2,967	1,316	3,153	1,392	3,178	1,395
Michigan.....	692	519	943	412	816	362
Minnesota.....	5,468	2,461	5,283	2,372	6,082	2,763
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	2,617	1,190	2,833	1,278	2,754	1,272
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	5,131	2,292	5,058	2,268	6,339	2,911
South Atlantic.....	3,978	1,755	4,056	1,800	4,097	1,784
East South Central.....	3,157	1,267	2,855	1,281	2,709	1,215
Tennessee.....	2,530	1,019	2,409	1,088	2,139	941
West South Central.....	3,671	1,631	3,491	1,573	3,479	1,534
Oklahoma.....	(D)	(D)	(D)	(D)	1,534	715
Texas.....	1,741	788	1,771	786	1,425	587
Mountain.....	3,079	1,410	3,209	1,460	3,126	1,434
Montana.....	762	343	830	369	724	328
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,943	2,228	5,146	2,344	8,782	3,914
Washington.....	1,319	584	1,363	599	1,338	593
Oregon.....	923	405	954	422	1,019	462
California and Hawaii.....	2,701	1,243	2,829	1,323	6,425	2,859

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies. ¹Revised by 5 percent or more from previous figures.

¹The following is the breakdown of geographic areas used by the Census Bureau. Northeast Region: New England Division-- Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut; Middle Atlantic Division-- New York, New Jersey, and Pennsylvania. North Central Region: East North Central Division-- Ohio, Indiana, Illinois, Michigan, and Wisconsin; West North Central Division-- Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas. South Region: South Atlantic Division-- Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; East South Central Division-- Kentucky, Tennessee, Alabama, and Mississippi; West South Central Division-- Arkansas, Louisiana, Oklahoma and Texas. West Region: Mountain Division-- Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Nevada, and Utah; Pacific Division-- Washington, Oregon, California, Alaska, and Hawaii.

Table 4. EXPORTS OF WHEAT AND WHEAT FLOUR

Country to which exported	November 1981	October 1981	Year-to-date
WHEAT FLOUR EXCEPT MEAL AND GROATS, FOR RELIEF OR CHARITY (1314010 and 1314030) (1,000 cwt.)			
Total.....	100	90	2,746
Peru.....	28	14	129
Chile.....	2	20	141
Morocco.....	30	9	832
Egypt.....	13	21	407
Israel.....	-	5	95
Sri Lanka.....	-	-	40
Philippines.....	7	-	274
Other.....	20	21	828
WHEAT FLOUR, WHOLLY U.S. WHEAT, NOT DONATED FOR RELIEF OR CHARITY (1314020 and 1314040) (1,000 cwt.)			
Total.....	117	284	15,655
Mexico.....	54	99	316
Jamaica.....	8	8	452
Egypt.....	-	-	8,395
Saudi Arabia.....	1	42	2,514
Other.....	62	135	3,978
WHEAT, INCLUDING SPELT OR MESLIN, UNMILLED, NOT DONATED FOR RELIEF OR CHARITY (1306540) (1,000 bu.)			
Total.....	127,495	156,902	1,473,399
Mexico.....	1,802	1,936	36,426
Venezuela.....	3,862	1,280	29,641
Colombia.....	2,170	1,455	17,483
Peru.....	1,913	5,797	31,600
Brazil.....	3,259	6,807	101,215
Chile.....	4,128	3,399	36,150
Portugal.....	1,695	1,157	20,798
U.S.S.R.....	17,955	16,832	123,029
Morocco.....	5,062	-	25,514
Egypt.....	3,913	4,522	68,265
Bangladesh.....	-	-	7,739
China (Mainland).....	18,848	30,542	251,028
Korean Republic.....	4,699	6,247	65,822
Indonesia.....	2,059	3,246	26,599
Philippines.....	2,015	3,995	28,768
Nigeria.....	4,665	3,483	39,883
Other.....	49,450	66,204	563,439

- Represents zero.

Table 5. PRODUCTION AND EXPORTS OF WHEAT FLOUR

(Quantity in 1,000 cwt.; value in thousands of dollars)

Product	Wheat flour production		Export of domestic merchandise ¹			Percent exports to manufacturers' production	
	Quantity	Value	Quantity	Value at port	Estimated producers' value ²	Quantity	Value
NOVEMBER 1981							
Wheat flour.....	22,835	(NA)	217	2,053	1,808	1.0	(NA)
OCTOBER 1981							
Wheat flour.....	24,712	(NA)	374	3,637	3,203	1.5	(NA)

Comparison of SIC codes (domestic output), Schedule B export codes, and TSUSA import codes is shown in the annual summary report in this series for 1980, M20A(80)-13, issued April 1981.

(NA) Not available.

¹Source: Bureau of the Census Report EM-546, U.S. Exports.

²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (.8806 for industry group 204) are based on data for 1977 which are published in MC77-SR-12, Origin of Exports of Manufactured Products, appendix B.

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Flour Milling Products



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY FOR 1981

M20A(81)-13
Issued May 1982

SUMMARY OF FINDINGS

Total commercial production of wheat flour in 1981 amounted to 284 million cwt. sacks, about 1.3 million cwt. sacks above the 1980 production.

Wheat mills in 1981 and 1980 ground 634.4 and 628.6 million bushels of wheat; corresponding millfeed production

figures for these years were 5,045 and 4,866 thousand tons.

Production of rye flour in 1981 amounted to 1,563 thousand cwt. sacks, compared with 1,617 thousand cwt. in 1980. Rye grinding in 1981 and 1980 were 3,456 and 3,549 thousand bushels, respectively.

Table 1. SUMMARY: COMMERCIAL WHEAT MILLING PRODUCTION: 1972 TO 1981

Year	Wheat flour production (1,000 cwt. sacks)	Wheat ground for flour (1,000 bushels)	Millfeed production (1,000 tons)	Average pounds per cwt. sacks of flour	
				Wheat	Millfeed
1981.....	283,966	634,381	5,045	134.0	35.5
1980.....	282,655	628,559	4,866	133.4	34.4
1979.....	284,051	636,375	4,945	134.4	34.8
1978.....	277,950	621,321	4,860	134.1	35.0
1977.....	275,784	618,125	4,787	134.5	34.7
1976.....	275,077	618,284	4,920	135.0	35.8
1975.....	258,985	582,675	4,701	134.9	36.3
1974.....	251,097	562,962	4,483	134.5	35.7
1973.....	254,661	567,287	4,395	133.7	34.5
1972.....	250,441	557,801	4,303	133.6	34.4

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Frank Lee, (301) 763-7807.

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Table 2. COMMERCIAL WHEAT MILLING PRODUCTION, BY MONTH: 1981 AND 1980

Month	Wheat flour production (1,000 cwt. sacks)	Wheat ground for flour (1,000 bushels)	Millfeed production (1,000 tons)	Daily 24-hour capacity in wheat flour ¹ (1,000 cwt.)	Wheat flour mill stocks ¹ (1,000 cwt.)	Average pounds per cwt. sack of flour	
						Wheat	Millfeed
1981							
Total.....	283,966	634,381	5,045	(X)	(X)	134.0	35.5
January.....	24,247	53,921	421	1,056	(NA)	133.4	34.7
February.....	22,787	51,084	399	1,056	(NA)	134.5	35.0
March.....	24,959	55,310	435	1,056	3,897	133.0	34.8
April.....	23,967	53,402	424	1,056	(NA)	133.7	35.4
May.....	23,421	52,184	420	1,056	(NA)	133.7	35.9
June.....	23,521	52,643	416	1,061	3,895	134.3	35.3
July.....	23,342	51,194	410	1,061	(NA)	131.6	35.2
August.....	23,665	53,323	431	1,061	(NA)	135.2	36.4
September.....	24,189	54,589	436	1,061	4,222	135.4	36.0
October.....	24,712	55,552	440	1,061	(NA)	134.8	35.6
November.....	22,835	50,982	410	1,061	(NA)	134.0	35.9
December.....	22,321	50,197	403	1,063	3,460	134.9	36.1
1980							
Total.....	282,655	628,599	4,866	(X)	(X)	133.4	34.4
January.....	24,553	54,955	429	1,059	(NA)	134.3	34.9
February.....	22,624	50,352	394	1,059	(NA)	133.4	34.8
March.....	22,165	49,104	384	1,059	3,323	132.9	34.7
April.....	21,231	47,170	368	1,059	(NA)	133.3	34.7
May.....	22,814	49,836	390	1,059	(NA)	131.1	34.2
June.....	21,356	47,786	377	1,056	4,268	134.3	35.3
July.....	23,137	51,760	410	1,056	(NA)	134.2	35.4
August.....	24,025	52,980	424	1,056	(NA)	132.3	35.3
September.....	24,813	54,762	430	1,056	3,716	132.4	34.7-
October.....	26,285	58,392	453	1,056	(NA)	133.2	34.5
November.....	24,420	54,582	392	1,056	(NA)	134.1	32.1
December.....	25,232	56,920	415	1,056	3,842	135.4	32.9

(NA) Not available. (X) Not applicable.

¹The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

Table 3. COMMERCIAL RYE MILLING PRODUCTION, BY MONTH: 1981 AND 1980

Month	Rye flour production (1,000 cwt. sacks)	Rye ground for flour (1,000 bushels)	Millfeed production (tons)	Average pounds ground per cwt. sack of flour		Stocks of rye flour (1,000 cwt. sacks)	24-hour capacity (1,000 cwt. sacks)
				Rye	Millfeed		
1981							
Total.....	1,563	3,456	17,088	123.8	21.9	(X)	(X)
January.....	136	299	1,458	123.1	21.4	(NA)	10
February.....	122	267	1,347	122.6	22.1	(NA)	10
March.....	115	255	1,338	124.2	23.3	17	10
April.....	139	307	1,636	123.7	23.5	(NA)	10
May.....	121	277	1,416	128.2	23.4	(NA)	10
June.....	134	293	1,431	122.4	21.4	27	9
July.....	132	306	1,744	129.8	26.4	(NA)	9
August.....	122	260	1,213	119.3	19.9	(NA)	9
September.....	141	311	1,495	123.5	21.2	13	9
October.....	139	306	1,385	123.3	19.9	(NA)	9
November.....	127	273	1,275	120.4	20.1	(NA)	9
December.....	135	302	1,350	125.2	20.0	13	9
1980							
Total.....	1,617	3,549	17,674	122.9	21.9	(X)	(X)
January.....	153	351	2,011	128.5	26.3	(NA)	10
February.....	126	283	1,561	125.8	24.8	(NA)	10
March.....	125	274	1,261	122.8	20.2	22	11
April.....	114	248	1,296	121.8	22.7	(NA)	11
May.....	127	283	1,508	124.8	23.8	(NA)	11
June.....	118	262	1,231	124.3	20.9	12	11
July.....	140	306	1,367	122.4	19.5	(NA)	11
August.....	125	273	1,310	122.3	21.0	(NA)	11
September.....	143	309	1,431	121.0	20.0	11	10
October.....	148	326	1,591	123.4	21.5	(NA)	10
November.....	155	321	1,583	116.0	20.4	(NA)	10
December.....	143	313	1,524	122.6	21.3	12	10

(NA) Not available. (X) Not applicable.

Table 4. COMMERCIAL WHEAT MILLING PRODUCTION, BY GEOGRAPHIC AREA: 1981 AND 1980

Geographic areas	1981			1980		
	Wheat ground for flour (1,000 bushels)	Wheat flour production		Wheat ground for flour (1,000 bushels)	Wheat flour production	
		Total (1,000 cwt. sacks)	Daily (24 hour) capacity ¹ (cwt. sacks)		Total (1,000 cwt. sacks)	Daily (24 hour) capacity ¹ (cwt. sacks)
United States.....	634,381	283,966	1,062,950	628,599	282,655	1,059,643
Middle Atlantic Division.....	82,846	37,571	132,628	82,320	37,285	143,430
New York.....	63,489	28,961	102,034	64,603	29,080	114,774
North Central Division.....	326,138	145,539	565,199	322,412	144,570	559,288
Ohio.....	34,607	15,369	62,745	35,146	15,523	62,368
Indiana.....	18,182	7,841	29,821	16,605	7,234	33,355
Illinois.....	39,738	17,432	62,514	36,902	16,342	61,418
Michigan.....	10,834	4,741	23,109	9,894	4,285	22,249
Minnesota.....	69,065	31,172	126,860	72,971	33,096	126,234
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	33,154	15,055	59,976	37,880	17,364	59,904
Nebraska.....	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	74,272	33,476	124,824	72,210	32,785	118,755
South Atlantic Division.....	48,363	21,251	82,541	44,429	19,559	79,574
East South Central Division.....	32,868	14,393	51,951	30,835	13,639	51,583
Tennessee.....	25,923	11,433	40,480	23,861	10,550	40,112
West South Central Division.....	46,849	21,086	69,685	44,058	19,648	68,906
Oklahoma.....	(D)	(D)	(D)	18,183	8,464	29,113
Texas.....	22,067	9,782	28,800	19,138	8,182	27,815
Mountain Division.....	35,307	16,135	64,547	34,254	15,875	60,195
Montana.....	8,283	3,759	13,736	7,926	3,669	13,736
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific Division.....	62,010	27,991	96,399	70,291	32,079	96,667
Washington.....	16,209	7,233	28,735	17,289	7,737	28,735
Oregon.....	12,638	5,331	19,900	11,395	5,180	19,900
California and Hawaii.....	33,163	15,427	47,764	41,607	19,162	48,032

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosing figures for individual companies.

¹Capacity as reported for December of each year.

Table 5. PRODUCTION AND MILL STOCKS OF WHEAT FLOUR, BY QUARTER: 1981 AND 1980

(Figures in 1,000 cwt. sacks)		
Quarter	Production	Mill stocks
1981		
First quarter.....	71,993	3,897
Second quarter.....	70,909	3,895
Third quarter.....	71,196	4,222
Fourth quarter.....	69,868	3,460
1980		
First quarter.....	69,342	3,323
Second quarter.....	64,401	4,268
Third quarter.....	71,975	3,716
Fourth quarter.....	75,937	3,842

Table 6. DURUM WHEAT PRODUCTS: 1981 AND 1980

Item	1981		1980	
	Jan. 1- June 30	July 1- Dec. 31	Jan. 1- June 30	July 1- Dec. 31
Durum wheat ground (1,000 bushels).....	14,985	16,435	17,435	16,047
Straight semolina and durum flour produced (1,000 cwt. sacks).....	6,309	7,155	7,759	6,961
Blended semolina and durum flour produced (1,000 cwt. sacks).....	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

Table 7. PRODUCTION AND EXPORTS OF WHEAT FLOUR

(Quantity in 1,000 cwt.; value in thousands of dollars)

Product code	Product	Wheat flour production		Export of domestic merchandise ¹			Percent exports to manufacturers' production	
		Quantity	Value	Quantity	Value at port	Estimated producers' value ²	Quantity	Value
20411 --	1980 Wheat flour.....	283,966	(NA)	18,807	228,521	201,236	6.6	(NA)
20411 --	1981 Wheat flour.....	282,655	(NA)	17,377	210,902	185,720	6.1	(NA)

Comparison of SIC codes (domestic output) and Schedule B export codes is as follows:

Domestic output	Export
20411-Wheat flour	131.4010-131.4040

(NA) Not available.

¹Source: Bureau of the Census report EM-546, U.S. Exports.

²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factor (0.8806 for industry group 204) is based on data for 1980 which are published in M80(AS)-6, Origin of Exports of Manufactured Products.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers all firms in the United States operating wheat and rye flour mills.

Survey Methodology—The statistics shown in this publication, were collected on Bureau of the Census monthly Form M20A, Flour Milling Products, from a sample of approximately 165 establishments representing 98 percent of total production of flour in the United States. The universe for this survey is the 1977 Census of Manufactures. The monthly sample was selected to include all establishments with a daily capacity of over 400 sacks of flour. Data for approximately 200 smaller establishments (generally those with less than five employees for which 1977 Census of Manufactures data were derived from administrative records of other government agencies) are estimated based on the month-to-month trends for reporting establishments.

Survey Error—Figures for the current month may include estimates for panel members for which reports were not received in time for tabulation. Such missing figures are "imputed" based on month-to-month movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but it is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data—Statistics for previous months may be revised as the result of corrected data from respondents, including the receipt of late reports for which imputations were made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Reporting Period Adjustment—The data are adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods. Since the calendar month accounting system prevails in this industry, adjustments have been made to those reporting on other than a calendar month basis.

EXPLANATION OF TERMS

Wheat Ground for Flour—Represents the purchased weight of wheat ground, including the weight of foreign material (dockage). Includes the milling of Canadian wheat in bond. Measured in bushels of 60 pounds.

Rye Ground for Flour—Represents the purchased weight of rye ground, including the weight of foreign materials (dockage). Measured in bushels of 56 pounds.

Millfeed—Includes bran, middlings, shorts, and other milling by-products intended principally for use as feed materials.

Capacity—Represents maximum quantity of flour that can be produced in a mill in 1 day if operating for 24 hours. Includes the capacity of idle mills until the mills are reported to be destroyed, dismantled, or abandoned.

Stocks of Flour—Represents mill stocks in all positions, sold and unsold.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are

incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Estimated Low-Valued Export and Import Transactions—The import statistics include estimated value data for shipments valued under \$251, based on a 1-percent sample. Effective with the statistics for March 1979, the lower limit of the value ranges for estimating data for low-value export shipments has been raised from \$251 to \$501. For countries other than Canada, effective with the March 1979 statistics, data for shipments valued \$501-\$999 (formerly \$251-\$999) are estimated based on a 50-percent sample of such shipments. As in the past, these estimates are combined with data for shipments valued \$1,000 and over, which continue to be fully compiled. For Canada, effective with the March 1979 statistics, shipments valued \$501-\$1,999 (\$251-\$1,999 prior to March 1979) are estimated, based on a 10-percent sample and are combined with fully compiled data for shipments valued \$2,000 and over. For exports to all countries, data for shipments valued under \$501 (under \$251 prior to March 1979) are also estimated, based on established percentages of individual country totals.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when

intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

RELATED REPORTS

A monthly Current Industrial Report also is published in this series. This annual report summarizes monthly figures and incorporates known revisions in the series for both current and previous year. It also provides a single reference copy to replace the monthly publications.

The Bureau of the Census publishes the following related reports:

Series	Frequency	Title
<i>Other Industry Reports</i>		
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>
(MC)	Quinquennially	<i>Census of Manufactures</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>

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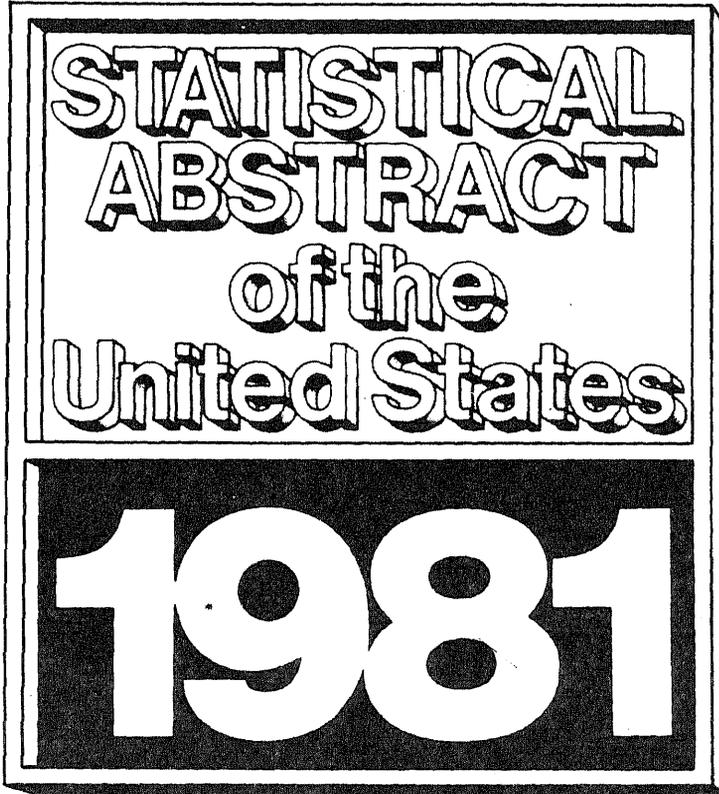
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