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## CURRENT INDUSTRIAL REPORTS

# Flour Milling Products Seasonal Adjustment Supplement

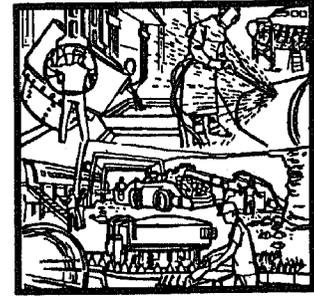
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FOR RELEASE: March 31, 1971

SERIES: M20A Supplement

This report presents seasonally adjusted data for a number of the most important series published monthly in Current Industrial Reports Series M20A, Flour Milling Products. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not associated with a repetitive seasonal pattern.

The seasonal adjustments were made using the X-11 variant of the Census Bureau's seasonal adjustment program. The X-11 variant of the seasonal adjustment program has developed improved techniques for the treatment of extremes and a regression program to identify trading-day adjustment to the monthly aggregates. The trading-day routine is optional and has been used for the series presented in this publication. This program is amply described in the literature on this method. It should be noted that the data included in this report have not been adjusted on an establishment basis prior to tabulation for variation in the length of the reporting period such as 4-week, 5-week, or calendar month.

For each series included in this report the following tables are shown:

- (1) Seasonally-adjusted data.
- (2) Data without seasonal adjustment (original series).
- (3) Seasonal adjustment factors. The seasonally-adjusted data are obtained by dividing the unadjusted data by the seasonal factors for the specific month.
- (4) Average percentage changes and related measures for each series.

Beginning in March 1971, these seasonally adjusted data will be included in table Ib of the regular M20A report. That report also includes a detailed description of the survey, including a discussion of the scope and coverage of the report together with an explanation of the terms.

### TRADING-DAY FACTORS

Variation in the rate of activity that arises from the existence of different numbers of trading days in the same month for different years can be an important cause of month-to-month irregular fluctuations. Unlike some other causes of irregular fluctuations such as unexpected economic developments, unusual weather, and statistical errors, trading-day irregularities can be approximately identified and removed so that the underlying trend-cycle stands out more clearly. Hence, it is often possible to reduce the irregular factor by a trading-day adjustment.

BRIEF DEFINITIONS OF MEASURES SHOWN  
IN TABLE 4

The following are brief definitions; more complete explanations appear in Electronic Computers and Business Indicators, by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from Journal of Business, October 1957).

" $\overline{CI}$ " is the average month-to-month percentage change, without regard to sign, in the seasonally adjusted series (i.e., the series after adjustment for measurable seasonal, trading-day, and holiday variations).

" $\overline{I}$ " is the same for the irregular component, obtained by dividing the cyclical component into the seasonally adjusted series.

" $\overline{C}$ " is the same for the cyclical component, a smooth, flexible moving average of the seasonally adjusted series.

" $\overline{I/C}$ " is a measure of the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is shown for 1-month spans and for spans of the period of MCD. When MCD is "6", no I/C ratio is shown for the MCD period.

"MCD" (months for cyclical dominance) provides an estimate of the appropriate time span

over which to observe cyclical movements in a monthly series. It is small for smooth series and large for irregular series. In deriving MCD, percentage changes are computed separately for the irregular component and the cyclical component over 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-months spans (Jan.-Mar., Feb.-Apr., etc.), up to 12-month spans. Averages, without regard to sign, are then computed for the changes over each span. MCD is the shortest span in months for which the average percentage change (without regard to sign) in the cyclical component is larger than the average percentage change (without regard to sign) in the irregular component, and remains so. Thus, it indicates the point at which fluctuations in the seasonally adjusted series became dominated by cyclical rather than irregular movements. All series with the MCD greater than "5" are shown as "6."

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between 2 months, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series CI, irregular component I, cyclical component C, and the MCD curve. The MCD curve is an unweighted moving average (with the number of terms equal to MCD) of the seasonally adjusted series.

TABLE 1A.--WHEAT FLOUR PRODUCTION, AVERAGE PER WORKING DAY, BY MONTHS

FINAL SEASONALLY ADJUSTED SERIES												(1,000 CWT SACKS)
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	959.	943.	959.	974.	998.	1007.	947.	967.	992.	983.	1016.	992.
1960	1006.	950.	994.	985.	970.	996.	1001.	989.	1014.	1053.	997.	1019.
1961	1029.	1054.	1012.	966.	1010.	1007.	1023.	1056.	992.	1012.	1026.	1064.
1962	1046.	1080.	1054.	1035.	1017.	1002.	1035.	1030.	1021.	1006.	1032.	1008.
1963	995.	1034.	1039.	1056.	1078.	1035.	1070.	1037.	1001.	1030.	1026.	1040.
1964	1080.	1004.	1014.	1070.	1050.	1306.	706.	973.	1035.	1063.	1055.	989.
1965	964.	907.	993.	959.	973.	1089.	930.	1008.	1010.	1001.	963.	948.
1966	929.	989.	1005.	998.	1008.	1030.	1029.	982.	1008.	990.	958.	964.
1967	982.	976.	945.	972.	956.	953.	1004.	972.	945.	949.	950.	990.
1968	1007.	969.	1018.	977.	969.	972.	1023.	990.	993.	992.	1013.	989.
1969	943.	974.	969.	978.	1059.	1022.	980.	996.	999.	988.	1040.	1076.
1970	1038.	1135.	989.	1004.	972.	961.	960.	989.	984.	1008.	954.	918.

Note: The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

TABLE 1B.--MILLFEED PRODUCTION, BY MONTHS

FINAL SEASONALLY ADJUSTED SERIES												(THOUSANDS OF TONS)
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	380.	372.	381.	384.	403.	401.	393.	387.	402.	396.	407.	404.
1960	403.	395.	405.	399.	387.	404.	401.	397.	406.	416.	397.	404.
1961	408.	411.	398.	377.	395.	400.	425.	422.	394.	401.	410.	422.
1962	417.	425.	418.	409.	401.	397.	407.	405.	399.	397.	407.	394.
1963	393.	404.	406.	416.	418.	405.	416.	406.	397.	406.	404.	405.
1964	422.	404.	401.	421.	430.	523.	295.	384.	409.	418.	420.	393.
1965	381.	358.	396.	382.	379.	430.	364.	394.	399.	391.	379.	385.
1966	377.	382.	390.	388.	384.	399.	397.	379.	392.	386.	374.	373.
1967	380.	374.	354.	372.	368.	368.	370.	374.	364.	366.	367.	374.
1968	383.	380.	387.	374.	353.	367.	390.	375.	371.	370.	379.	373.
1969	355.	360.	365.	370.	382.	382.	363.	370.	371.	368.	385.	386.
1970	382.	383.	369.	367.	363.	361.	370.	368.	371.	375.	358.	344.

TABLE 1C.--WHEAT GROUND FOR FLOUR

FINAL SEASONALLY ADJUSTED SERIES												(1,000 BUSHELS)
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	46349.	45167.	46479.	46949.	49666.	49196.	47706.	45951.	48618.	47516.	49223.	48625.
1960	48579.	47503.	48547.	47856.	46810.	48466.	48086.	47494.	49456.	50776.	48390.	49338.
1961	49858.	50351.	48780.	46217.	48591.	48687.	51454.	50844.	48070.	49020.	49783.	51129.
1962	50859.	51782.	50873.	49653.	48888.	48432.	49609.	49310.	49021.	48846.	49982.	48257.
1963	48202.	49524.	49736.	51314.	51607.	50015.	51364.	49747.	48483.	50141.	49569.	50032.
1964	51799.	49611.	48788.	51446.	52233.	63856.	35467.	46674.	50127.	51274.	50983.	47638.
1965	45778.	43252.	47579.	46123.	45919.	52638.	43930.	48316.	48568.	47861.	46570.	47096.
1966	46480.	46991.	48136.	47893.	47813.	49426.	48193.	47011.	48229.	47286.	45828.	45641.
1967	46730.	46234.	45207.	45899.	45447.	45465.	46716.	46302.	45109.	45449.	45368.	46840.
1968	47989.	47388.	48464.	46735.	45137.	46315.	48058.	47155.	46999.	47952.	48507.	47539.
1969	44946.	45272.	46197.	47134.	49457.	48821.	46064.	47201.	47706.	46284.	49085.	49403.
1970	48A07.	51018.	46779.	47443.	47204.	45679.	46633.	47014.	46803.	47085.	45508.	44047.

TABLE 2A.--WHEAT FLOUR PRODUCTION, AVERAGE PER WORKING DAY, BY MONTHS

ORIGINAL SERIES												(1,000 CWT. SACKS)
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	1036.	951.	944.	892.	974.	925.	875.	985.	1026.	1027.	1093.	992.
1960	1103.	980.	971.	929.	915.	925.	971.	965.	1038.	1119.	1065.	1038.
1961	1080.	1064.	988.	937.	945.	926.	990.	1035.	1056.	1048.	1092.	1101.
1962	1069.	1087.	1053.	972.	963.	958.	968.	1009.	1119.	1035.	1083.	1029.
1963	1005.	1035.	1062.	980.	1025.	1021.	986.	1040.	1070.	1072.	1111.	1019.
1964	1070.	1060.	999.	1011.	1050.	1230.	650.	992.	1111.	1137.	1116.	959.
1965	991.	891.	968.	900.	966.	1051.	875.	992.	1092.	1096.	997.	922.
1966	944.	965.	985.	969.	966.	999.	985.	957.	1082.	1074.	1006.	974.
1967	966.	951.	925.	961.	898.	915.	954.	952.	1049.	991.	1002.	1037.
1968	979.	970.	1041.	910.	908.	984.	928.	994.	1076.	1022.	1104.	1013.
1969	925.	949.	982.	923.	1010.	988.	891.	1022.	1057.	1016.	1167.	1098.
1970	1046.	1105.	970.	943.	944.	908.	869.	1011.	1055.	1062.	1035.	944.

Note: The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

TABLE 2B.--MILLFEED PRODUCTION, BY MONTHS

ORIGINAL SERIES												(THOUSANDS OF TONS)
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	404.	355.	385.	363.	378.	380.	377.	393.	413.	430.	412.	417.
1960	418.	390.	426.	372.	365.	387.	371.	422.	412.	440.	418.	406.
1961	422.	393.	418.	346.	386.	380.	390.	451.	398.	431.	430.	413.
1962	440.	405.	430.	379.	396.	375.	378.	433.	396.	443.	421.	380.
1963	411.	382.	410.	398.	414.	377.	398.	425.	400.	458.	412.	393.
1964	434.	390.	406.	411.	411.	507.	283.	390.	435.	462.	416.	396.
1965	373.	333.	414.	369.	360.	428.	342.	404.	426.	424.	384.	388.
1966	364.	354.	411.	371.	370.	399.	363.	401.	416.	412.	385.	373.
1967	372.	346.	372.	345.	365.	365.	335.	398.	382.	394.	378.	371.
1968	387.	366.	390.	355.	351.	352.	369.	391.	379.	411.	386.	374.
1969	362.	335.	364.	356.	373.	365.	345.	377.	387.	407.	385.	402.
1970	383.	357.	372.	352.	347.	353.	350.	373.	393.	407.	361.	361.

TABLE 2C.--WHEAT GROUND FOR FLOUR

ORIGINAL SERIES												(1,000 BUSHEL)
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	49368.	43239.	47107.	44496.	46333.	46441.	45826.	47263.	49345.	51563.	49930.	49945.
1960	50471.	47038.	51053.	44656.	43850.	46526.	44482.	50810.	49801.	53610.	50837.	49585.
1961	51562.	48251.	51499.	42492.	47199.	46276.	47310.	54454.	48118.	52480.	52250.	50108.
1962	53532.	49417.	52606.	46225.	48021.	45677.	46130.	52865.	48371.	54140.	51743.	46626.
1963	50248.	47017.	50550.	49005.	51105.	46520.	49215.	51990.	48798.	56105.	50558.	48591.
1964	53308.	47878.	49688.	50225.	49908.	61557.	34215.	47324.	52968.	56463.	50765.	47910.
1965	44864.	40248.	50079.	44630.	43473.	52139.	41509.	49302.	51815.	51793.	47175.	47697.
1966	44909.	43495.	50866.	45742.	45542.	49309.	44581.	49482.	51048.	50662.	47259.	45778.
1967	45614.	42748.	47865.	42692.	44422.	44911.	42817.	48928.	47180.	49105.	47016.	46503.
1968	48368.	45637.	49019.	44492.	44374.	44119.	45852.	48950.	48042.	53606.	49523.	47667.
1969	45888.	42038.	46121.	45631.	47623.	46457.	44119.	47974.	49519.	51894.	49344.	51348.
1970	48905.	47424.	47089.	45834.	44500.	44126.	44700.	47440.	49361.	51708.	46161.	46141.

TABLE 3A.--WHEAT FLOUR PRODUCTION, AVERAGE PER WORKING DAY, BY MONTHS

FINAL COMBINED FACTORS  
(SEASONALS COMBINED WITH FINAL TRADING-DAY AND/OR PRIOR MONTHLY FACTORS) (PERCENT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	108.051	100.884	98.406	91.568	97.549	91.830	92.402	101.888	103.471	104.527	107.592	99.974
1960	109.691	103.123	97.711	94.276	94.339	92.857	97.035	97.608	102.324	106.291	106.847	101.908
1961	104.954	100.983	97.612	97.043	93.590	91.915	96.768	98.006	106.480	103.565	106.433	103.517
1962	102.214	100.686	99.894	93.906	94.661	95.598	93.546	98.005	109.614	102.900	104.976	102.093
1963	100.958	100.091	102.180	92.809	95.056	98.601	92.120	100.297	106.893	104.107	108.310	98.010
1964	99.086	105.611	98.506	94.442	100.019	94.180	92.009	101.990	107.343	106.943	105.794	96.924
1965	102.797	98.208	97.510	93.879	99.328	96.520	94.054	98.406	108.118	109.486	103.480	97.219
1966	101.581	97.613	98.006	97.123	95.827	97.019	95.697	97.412	107.333	108.442	105.059	101.002
1967	98.406	97.415	97.907	98.913	93.884	96.040	95.027	97.908	110.955	104.458	105.442	104.752
1968	97.216	100.073	102.283	93.103	93.680	101.199	90.748	100.398	108.391	103.025	109.022	102.474
1969	98.103	97.415	101.376	94.335	95.363	96.703	90.922	102.591	105.830	102.822	112.212	102.018
1970	100.80	97.316	98.109	93.947	97.138	94.473	90.534	102.195	107.244	105.332	108.491	102.828

COMBINED FINAL SEASONAL AND TRADING-DAY FACTORS ONLY, ONE YEAR AHEAD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1971	103.106	97.316	96.922	93.094	96.461	95.626	92.644	99.101	106.929	107.633	106.613	-

Note: The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

TABLE 3B.--MILLFEED PRODUCTION, BY MONTHS

FINAL COMBINED FACTORS  
(SEASONALS COMBINED WITH FINAL TRADING-DAY AND/OR PRIOR MONTHLY FACTORS) (PERCENT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	100.412	95.433	101.159	94.581	93.685	94.783	95.974	101.678	102.612	108.717	101.125	103.118
1960	103.692	98.617	105.164	93.307	94.264	95.903	92.410	106.276	101.405	105.668	105.264	100.601
1961	103.425	95.532	104.959	91.747	97.734	95.054	91.851	106.903	100.899	107.463	104.853	97.904
1962	105.463	95.235	102.905	92.714	98.719	94.505	92.885	106.797	99.157	111.463	103.421	96.522
1963	104.653	94.640	100.945	95.786	98.935	93.015	95.700	104.609	100.734	112.735	101.898	97.121
1964	102.815	96.594	101.258	97.530	95.549	96.890	95.872	101.484	106.284	110.621	99.071	100.663
1965	98.002	92.956	104.649	96.667	94.965	99.552	93.887	102.440	106.887	108.400	101.303	100.875
1966	96.619	92.559	105.267	95.504	96.234	99.971	91.527	105.768	106.142	106.835	103.020	100.100
1967	97.810	92.559	105.061	92.722	99.157	99.187	90.586	106.290	104.895	107.562	103.124	99.081
1968	101.090	96.408	100.749	94.984	99.547	95.842	94.581	104.308	102.201	111.098	101.898	100.371
1969	101.998	93.055	99.732	96.288	97.695	95.648	95.037	102.024	104.312	110.676	100.035	104.039
1970	100.300	93.253	100.864	95.801	95.647	97.792	94.647	101.289	105.978	108.517	100.734	104.857

COMBINED FINAL SEASONAL AND TRADING-DAY FACTORS ONLY, ONE YEAR AHEAD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1971	98.296	93.253	104.141	94.853	94.867	99.246	92.685	102.538	105.565	106.242	103.510	-

TABLE 3C.--WHEAT GROUND FOR FLOUR

FINAL COMBINED FACTORS  
(SEASONALS COMBINED WITH FINAL TRADING-DAY AND/OR PRIOR MONTHLY FACTORS) (PERCENT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1959	100.513	95.731	101.352	94.776	93.290	94.400	96.060	102.854	101.495	108.517	101.435	102.714
1960	103.896	99.021	105.162	93.313	93.677	95.997	92.504	106.981	100.698	105.582	105.058	100.501
1961	103.418	95.830	105.574	91.939	97.135	95.048	91.946	107.100	100.099	107.059	104.956	98.004
1962	105.255	95.433	103.406	93.097	98.226	94.311	92.988	107.210	98.674	110.838	103.523	96.621
1963	104.244	94.938	101.637	95.500	99.026	93.013	95.816	104.509	100.651	111.894	101.996	97.121
1964	102.914	96.506	101.844	97.626	95.549	96.400	96.469	101.393	105.668	110.120	99.571	100.572
1965	98.004	93.055	105.255	96.763	94.673	99.051	94.489	102.041	106.686	108.216	101.300	101.277
1966	96.621	92.559	105.672	95.509	95.251	99.764	92.504	105.255	105.844	107.140	103.123	100.300
1967	97.613	92.460	105.880	93.013	97.744	98.781	91.653	105.672	104.590	108.043	103.632	99.280
1968	100.789	96.305	101.146	95.200	98.310	95.258	95.410	103.807	102.220	111.792	102.095	100.270
1969	102.095	92.857	99.835	96.812	96.292	95.157	95.778	101.637	103.800	112.121	100.528	103.936
1970	100.200	92.956	100.663	96.608	94.272	96.600	95.855	100.906	105.465	109.819	101.435	104.754

COMBINED FINAL SEASONAL AND TRADING-DAY FACTORS ONLY, ONE YEAR AHEAD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1971	98.298	93.055	103.733	95.754	93.504	98.237	93.787	101.942	105.465	107.627	103.700	-

Table 4.--AVERAGE PERCENTAGE CHANGES AND RELATED MEASURES FOR SERIES COMPONENTS

Item	Average percentage changes			Ratio of irregular component to cyclical component (I/C)	Number of months for cyclical dominance (MCD)	I/C for MCD span	Average Duration of Run					
	Seasonally adjusted series (CI)	Irregular component (I)	Cyclical component (C)				CI	I	C	MCD		
Production												
Wheat flour production (daily average).....	3.61	3.55	.31	11.33	6	2.19	1.63	1.67	8.88	2.32		
Wheat flour production (monthly total).....	3.29	3.20	.55	5.80	6	1.31	1.80	1.75	6.17	2.63		
Mill feed production....	3.13	3.09	.29	10.60	6	2.07	1.84	1.75	7.89	2.98		
Wheat grindings.....	3.29	3.26	.32	10.21	6	2.05	1.75	1.71	8.88	2.63		



# CURRENT INDUSTRIAL REPORTS

Reference Copy

## Flour Milling Products

January 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: February 26, 1971

SERIES M20A(71)-1

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 3.

Table 1. Summary of Wheat Flour Milling: 1969 to 1971

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
January.....	1,042	20,831	359,777	46,279	(NA)	996	104.6	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	996	94.7	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
February.....	1,105	21,015	356,535	47,424	(NA)	1,013	109.1	73.9
January.....	1,046	21,960	383,457	48,905	(NA)	1,013	103.2	74.8
1969								
December.....	1,098	23,068	401,717	51,348	4,595	1,013	108.4	74.8
November.....	1,167	22,170	385,439	49,344	(NA)	1,007	115.8	74.9
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September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0
June.....	988	20,758	364,574	46,457	4,324	1,006	98.2	74.4
May.....	1,010	21,217	372,767	47,623	(NA)	1,003	100.7	74.2
April.....	923	20,307	356,455	45,631	(NA)	1,003	92.0	74.1
March.....	982	20,625	363,593	46,121	4,489	1,003	97.9	74.5
February.....	949	18,974	335,145	42,038	(NA)	1,002	94.7	75.2
January.....	925	20,342	362,399	45,888	(NA)	1,002	92.3	73.8

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Collected quarterly.

<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. This publication is for sale by the Bureau of the Census, Price: 15 cents per copy—\$1.50 per year.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	JANUARY 1971	DECEMBER 1970	JANUARY 1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 397	1 216	1 357
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	3 038	2 610	2 998
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	222	208	221
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	490	498	497
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 661	2 511	2 738
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	(NA)	44	(NA)
	24 HOUR CAPACITY (1) . . . . .	DO	15	15	14

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

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

(NA) Not available.

(1) Collected quarterly.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	JANUARY 1971	DECEMBER 1970	JANUARY 1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES: TOTAL . . . . .	20 831	20 754	21 960
MIDDLE ATLANTIC . . . . .	2 664	2 829	2 672
NEW YORK . . . . .	2 334	2 453	2 304
NORTH CENTRAL . . . . .	12 138	11 969	12 941
OHIO . . . . .	1 005	1 024	1 107
INDIANA . . . . .	536	495	594
ILLINOIS . . . . .	1 208	1 157	1 261
MICHIGAN . . . . .	561	551	628
MINNESOTA . . . . .	2 299	2 236	2 457
IOWA . . . . .	434	479	456
MISSOURI . . . . .	1 952	2 051	2 016
NEBRASKA . . . . .	701	705	659
KANSAS . . . . .	3 058	2 917	3 158
SOUTH ATLANTIC . . . . .	768	749	685
EAST SOUTH CENTRAL . . . . .	912	914	1 016
TENNESSEE . . . . .	674	680	780
WEST SOUTH CENTRAL . . . . .	1 232	1 184	1 292
OKLAHOMA . . . . .	387	285	393
TEXAS . . . . .	845	899	899
MOUNTAIN . . . . .	1 105	1 083	1 294
MONTANA . . . . .	278	286	297
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	2 012	2 026	2 060
WASHINGTON . . . . .	615	606	681
OREGON . . . . .	477	454	529
CALIFORNIA AND HAWAII . . . . .	920	966	850

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

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

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

The data are not adjusted for seasonal variation or number of working days.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.



# CURRENT INDUSTRIAL REPORTS

Reference Copy

## Flour Milling Products

February 1971

U.S. DEPARTMENT OF COMMERCE / Bureau of the Census



FOR RELEASE: March 30, 1971

SERIES: M20A(71)-2

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 3.

Table 1. Summary of Wheat Flour Milling: 1969 to 1971

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
February.....	988	19,789	345,333	44,073	(NA)	996	100.0	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	996	100.0	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	996	94.7	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
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August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
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April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
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September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0
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March.....	982	20,625	363,593	46,121	4,489	1,003	97.9	74.5
February.....	949	18,974	335,145	42,038	(NA)	1,002	94.7	75.2

Note: Data include estimates for small mills.

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<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

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TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION; GRAIN CONSUMPTION;  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	FEBRUARY 1971	JANUARY 1971	FEBRUARY 1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 354	1 397	1 303
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 915	3 038	2 935
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	206	<sup>F</sup> 207	213
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	440	<sup>F</sup> 457	510
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 342	<sup>F</sup> 2 221	3 180
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	(NA)	(NA)	(NA)
	24 HOUR CAPACITY (1) . . . . .	DO	15	15	14

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

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

(NA) Not available.

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<sup>F</sup> Revised by 5 percent or more from previously published figures.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	FEBRUARY 1971	JANUARY 1971	FEBRUARY 1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES: TOTAL . . . . .	19 769	20 894	21 015
MIDDLE ATLANTIC . . . . .	2 482	2 616	2 655
NEW YORK . . . . .	2 118	2 286	2 304
NORTH CENTRAL . . . . .	11 264	12 125	12 304
OHIO . . . . .	1 126	1 005	1 194
INDIANA . . . . .	468	536	531
ILLINOIS . . . . .	1 135	1 206	1 182
MICHIGAN . . . . .	520	561	606
MINNESOTA . . . . .	2 220	2 288	2 281
IOWA . . . . .	436	434	445
MISSOURI . . . . .	1 803	1 952	1 881
NEBRASKA . . . . .	717	701	692
KANSAS . . . . .	2 490	3 058	2 938
SOUTH ATLANTIC . . . . .	906	<sup>F</sup> 888	693
EAST SOUTH CENTRAL . . . . .	889	916	948
TENNESSEE . . . . .	670	678	725
WEST SOUTH CENTRAL . . . . .	1 202	1 232	1 245
OKLAHOMA . . . . .	302	387	369
TEXAS . . . . .	900	845	876
MOUNTAIN . . . . .	1 052	1 105	1 204
MONTANA . . . . .	272	278	290
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	1 974	2 012	1 966
WASHINGTON . . . . .	676	615	676
OREGON . . . . .	421	477	496
CALIFORNIA AND HAWAII . . . . .	877	920	794

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

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

<sup>F</sup> Revised by 5 percent or more from previously published figures.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

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The data are not adjusted for seasonal variation or number of working days.

## RELATED REPORTS

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## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.



CURRENT INDUSTRIAL REPORTS  
REFERENCE COPY  
Flour Milling Products

March 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: May 4, 1971

SERIES: M20A(71)-3

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 4.

Table 1A.--Summary of Seasonally Adjusted Wheat Flour Milling:  
1969 to 1971

Month and year	Wheat flour production average per working day <sup>2</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
March.....	945	349	45,098
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>1</sup>			
December.....	918	344	44,047
November.....	954	358	45,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,679
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>1</sup>			
December.....	1,076	386	49,403
November.....	1,040	385	49,085
October.....	988	368	46,284
September.....	999	371	47,706
August.....	996	370	47,201
July.....	980	363	46,064
June.....	1,022	382	48,821
May.....	1,059	382	49,457
April.....	978	370	47,134
March.....	969	365	46,197
February.....	974	360	45,272
January.....	943	355	44,946

<sup>1</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

<sup>2</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>3</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
March.....	916	21,059	363,306	46,781	4,732	1,002	91.4	75.0
February.....	988	19,781	344,821	44,038	(NA)	998	99.2	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	996	100.0	75.0
1970								
December.....	943	20,754	361,187	43,147	4,329	996	94.7	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	408,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.3
February.....	1,105	21,015	356,535	47,424	(NA)	1,013	109.1	73.9
January.....	1,046	21,960	383,457	48,905	(NA)	1,013	103.2	74.8
1969								
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September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0
June.....	988	20,758	364,574	46,457	4,324	1,006	98.2	74.4
May.....	1,010	21,217	372,767	47,623	(NA)	1,003	100.7	74.2
April.....	923	20,307	356,455	45,631	(NA)	1,003	92.0	74.1
March.....	982	20,825	363,593	46,121	4,489	1,003	97.9	74.5

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	MARCH 1971	FEBRUARY 1971	MARCH 1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 439	1 354	1 413
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	3 100	2 915	2 885
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	189	206	186
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	422	440	422
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 431	2 342	2 641
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	49	(NA)	45
	24 HOUR CAPACITY (1) . . . . .	DO	11	13	14

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

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

(NA) Not available.

(1) Collected quarterly.

Revised by 5 percent or more from previously published figures.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES (1,000 CWT.)

GEOGRAPHIC AREA	MARCH 1971	FEBRUARY 1971	MARCH 1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES, TOTAL . . . . .	21 059	19 761	21 347
MIDDLE ATLANTIC . . . . .	2 541	2 482	2 588
NEW YORK . . . . .	2 172	2 118	2 254
NORTH CENTRAL . . . . .	12 141	11 262	12 561
OHIO . . . . .	1 188	1 132	1 174
INDIANA . . . . .	536	468	581
ILLINOIS . . . . .	1 250	1 127	1 082
MICHIGAN . . . . .	659	520	630
MINNESOTA . . . . .	2 490	2 220	2 326
IOWA . . . . .	456	436	473
MISSOURI . . . . .	1 871	1 803	1 912
NEBRASKA . . . . .	681	717	672
KANSAS . . . . .	2 659	2 490	3 135
SOUTH ATLANTIC . . . . .	923	906	712
EAST SOUTH CENTRAL . . . . .	971	889	937
TENNESSEE . . . . .	720	670	732
WEST SOUTH CENTRAL . . . . .	1 137	1 196	1 261
OKLAHOMA . . . . .	329	302	414
TEXAS . . . . .	808	894	847
MOUNTAIN . . . . .	1 111	1 052	1 205
MONTANA . . . . .	285	272	284
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	2 235	1 974	2 083
WASHINGTON . . . . .	793	676	687
OREGON . . . . .	497	421	494
CALIFORNIA AND HAWAII . . . . .	945	877	902

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

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

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.

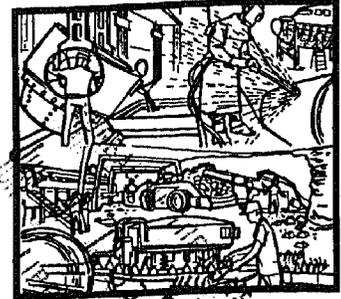
Stocks of flour (quarterly)--Represents mill stocks in all positions, sold and unsold.



CURRENT INDUSTRIAL REPORTS  
REFERENCE COPY

Flour Milling Products

April 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: June 4, 1971

SERIES: M20A(71)-4

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 4.

Table 1A.--Summary of Seasonally Adjusted Wheat Flour Milling:  
1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
April.....	959	353	45,450
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
November.....	954	358	45,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,679
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>2</sup>			
December.....	1,076	386	49,403
November.....	1,040	385	49,085
October.....	988	368	46,284
September.....	999	371	47,706
August.....	996	370	47,201
July.....	980	363	46,064
June.....	1,022	382	48,821
May.....	1,059	382	49,457
April.....	978	370	47,134

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
April.....	893	19,655	334,706	43,520	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,781	344,821	44,038	(NA)	996	99.2	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	996	100.0	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	996	94.7	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
February.....	1,105	21,015	356,535	47,424	(NA)	1,013	109.1	73.9
January.....	1,046	21,960	383,457	48,905	(NA)	1,013	103.2	74.8
1969								
December.....	1,098	23,068	401,717	51,348	4,595	1,013	108.4	74.8
November.....	1,167	22,170	385,439	49,344	(NA)	1,007	115.8	74.9
October.....	1,016	23,357	407,352	51,894	(NA)	1,007	100.9	75.0
September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0
June.....	988	20,758	364,574	46,457	4,324	1,006	98.2	74.4
May.....	1,010	21,217	372,767	47,623	(NA)	1,003	100.7	74.2
April.....	923	20,307	356,455	45,631	(NA)	1,003	92.0	74.1

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	APRIL	MARCH	APRIL
			1971	1971	1970
			QUANTITY	QUANTITY	QUANTITY
DURUM WHEAT (INCLUDED IN TABLE 1 DATA):					
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 114	1 429	1 186
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND. . . . .	M BU	2 406	3 076	2 525
RYE:					
2041611	RYE FLOUR PRODUCTION. . . . .	M CWT	179	189	153
0011351	RYE GROUND FOR FLOUR. . . . .	M BU	398	422	343
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 161	2 431	2 060
2041611	RYE FLOUR STOCKS (1). . . . .	M CWT	41	40	45
	24 HOUR CAPACITY (1). . . . .	DO	10	11	14

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

r Revised by 5 percent or more from previously published figures.  
(D) Withheld to avoid disclosure of figures for individual companies.  
(NA) Not available.  
(1) Collected quarterly.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	APRIL	MARCH	APRIL
	1971	1971	1970
QUANTITY PRODUCED			
UNITED STATES: TOTAL. . . . .	20 755	21 004	20 756
MIDDLE ATLANTIC. . . . .	2 337	2 549	2 436
NEW YORK. . . . .	2 006	2 172	2 086
NORTH CENTRAL. . . . .	11 504	12 084	12 415
OHIO. . . . .	989	1 188	1 276
INDIANA. . . . .	551	536	553
ILLINOIS. . . . .	1 054	1 231	963
MICHIGAN. . . . .	572	631	619
MINNESOTA. . . . .	2 211	2 480	2 354
IOWA. . . . .	426	456	489
MISSOURI. . . . .	1 841	1 871	1 841
NEBRASKA. . . . .	662	681	651
KANSAS. . . . .	2 898	2 659	3 139
SOUTH ATLANTIC . . . . .	915	923	737
EAST SOUTH CENTRAL . . . . .	910	965	923
TENNESSEE . . . . .	676	714	707
WEST SOUTH CENTRAL . . . . .	980	1 137	1 304
OKLAHOMA. . . . .	325	329	402
TEXAS . . . . .	655	808	902
MOUNTAIN . . . . .	2 141	1 111	1 106
MONTANA . . . . .	1 372	285	249
UTAH. . . . .	(D)	(D)	(D)
PACIFIC. . . . .	1 968	2 235	1 835
WASHINGTON. . . . .	588	793	629
OREGON. . . . .	532	497	393
CALIFORNIA AND HAWAII . . . . .	848	945	813

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

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

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.

A UNITED STATES  
DEPARTMENT OF  
COMMERCE  
PUBLICATION



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# CURRENT INDUSTRIAL REPORTS

REFERENCE COPY

## Flour Milling Products

May 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: June 24, 1971

SERIES: M20A(71)-5

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 4.

Table 1A.--Summary of Seasonally Adjusted Wheat Flour Milling:  
1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
May.....	1,055	369	48,392
April.....	960	353	45,455
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
November.....	954	358	45,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,879
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>2</sup>			
December.....	1,076	386	49,403
November.....	1,040	385	49,085
October.....	988	368	46,284
September.....	999	371	47,706
August.....	996	370	47,201
July.....	980	363	46,064
June.....	1,022	382	46,821
May.....	1,059	382	49,457

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. This publication is for sale by the Bureau of the Census, Price: 15 cents per copy—\$1.50 per year.

Table 1B.—Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
May.....	1,018	20,355	349,832	45,248	(NA)	1,002	92.3	75.0
April.....	894	19,662	334,910	43,525	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	996	99.2	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	996	100.0	75.0
1970								
December.....	943	20,754	361,167	46,147	4,328	996	94.7	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	889	19,991	349,528	44,700	(NA)	1,005	88.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
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January.....	1,046	21,960	383,457	48,905	(NA)	1,013	103.2	74.8
1969								
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November.....	1,167	22,170	385,439	49,344	(NA)	1,007	115.8	74.9
October.....	1,016	23,357	407,352	51,894	(NA)	1,007	100.9	75.0
September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0
June.....	988	20,758	364,574	46,457	4,324	1,006	98.2	74.4
May.....	1,010	21,217	372,767	47,623	(NA)	1,003	100.7	74.2

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	MAY 1971	APRIL 1971	MAY 1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 061	1 114	1 156
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 217	2 406	2 497
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	193	179	186
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	426	398	408
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 303	2 161	2 310
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	40	40	25
	24 HOUR CAPACITY (1) . . . . .	DO	10	10	13

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

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

(NA) Not available.

(1) Collected quarterly.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	MAY 1971	APRIL 1971	MAY 1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES, TOTAL . . . . .	20 355	19 662	19 826
MIDDLE ATLANTIC . . . . .	2 333	2 337	2 462
NEW YORK . . . . .	2 011	2 006	2 125
NORTH CENTRAL . . . . .	12 197	11 505	11 817
OHIO . . . . .	1 014	989	927
INDIANA . . . . .	524	551	507
ILLINOIS . . . . .	1 086	1 054	977
MICHIGAN . . . . .	507	573	552
MINNESOTA . . . . .	2 399	2 211	2 347
IOWA . . . . .	450	426	467
MISSOURI . . . . .	2 065	1 841	1 866
NEBRASKA . . . . .	614	662	668
KANSAS . . . . .	3 280	2 898	3 007
SOUTH ATLANTIC . . . . .	902	915	681
EAST SOUTH CENTRAL . . . . .	847	916	943
TENNESSEE . . . . .	616	682	691
WEST SOUTH CENTRAL . . . . .	1 017	980	1 251
OKLAHOMA . . . . .	220	325	352
TEXAS . . . . .	797	655	899
MOUNTAIN . . . . .	1 032	1 041	963
MONTANA . . . . .	240	272	221
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	2 027	1 968	1 709
WASHINGTON . . . . .	573	588	571
OREGON . . . . .	577	532	350
CALIFORNIA AND HAWAII . . . . .	877	848	788

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

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

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

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This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.



# CURRENT INDUSTRIAL REPORTS

## REFERENCE COPY Flour Milling Products

June 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: July 29, 1971

SERIES: M20A(71)-6

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 4.

Table 1A.--Summary of Seasonally Adjusted Wheat Flour Milling:  
1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
June.....	998	369	47,464
May.....	1,048	365	48,094
April.....	960	353	45,455
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
November.....	954	358	45,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,679
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>2</sup>			
December.....	1,076	386	49,403
November.....	1,040	385	49,085
October.....	988	368	46,284
September.....	999	371	47,706
August.....	996	370	47,201
July.....	980	363	46,064
June.....	1,022	382	48,821

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

Table 1B.-Summary of Wheat Flour Milling: 1969 to 1971  
(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
June.....	954	20,987	365,956	46,627	4,586	1,001	95.3	75.0
May.....	1,011	20,216	346,735	44,970	(NA)	1,002	100.9	74.9
April.....	894	19,662	334,910	43,525	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	996	99.2	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	996	100.0	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	996	94.7	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
February.....	1,105	21,015	356,535	47,424	(NA)	1,013	109.1	73.9
January.....	1,046	21,960	383,457	48,905	(NA)	1,013	103.2	74.8
1969								
December.....	1,098	23,068	401,717	51,348	4,595	1,013	108.4	74.8
November.....	1,167	22,170	385,439	49,344	(NA)	1,007	115.8	74.9
October.....	1,016	23,357	407,352	51,894	(NA)	1,007	100.9	75.0
September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0
June.....	988	20,758	364,574	46,457	4,324	1,006	98.2	74.4

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Collected quarterly.

<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION; GRAIN CONSUMPTION;  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	JUNE 1971	MAY 1971	JUNE 1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 012	1 041	1 086
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND. . . . .	M BU	2 149	2 237	2 336
	RYE:				
2041611	RYE FLOUR PRODUCTION. . . . .	M CWT	174	193	181
0011351	RYE GROUND FOR FLOUR. . . . .	M BU	395	426	408
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 302	2 303	2 598
2041611	RYE FLOUR STOCKS (1). . . . .	M CWT	30	40	25
	24 HOUR CAPACITY (1). . . . .	DO	10	10	13

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

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

(NA) Not available.

(1) Collected quarterly.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	JUNE 1971	MAY 1971	JUNE 1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES, TOTAL. . . . .	20 987	20 216	19 982
MIDDLE ATLANTIC. . . . .	2 731	2 332	2 570
NEW YORK. . . . .	2 410	2 011	2 232
NORTH CENTRAL. . . . .	11 996	12 200	11 650
OHIO. . . . .	937	1 010	1 020
INDIANA. . . . .	521	524	501
ILLINOIS. . . . .	1 191	1 086	1 057
MICHIGAN. . . . .	627	507	677
MINNESOTA. . . . .	2 296	2 399	2 258
IOWA. . . . .	477	450	473
MISSOURI. . . . .	1 959	2 065	1 841
NEBRASKA. . . . .	664	614	667
KANSAS. . . . .	3 074	3 287	2 657
SOUTH ATLANTIC. . . . .	926	902	716
EAST SOUTH CENTRAL. . . . .	971	837	963
TENNESSEE. . . . .	731	606	741
WEST SOUTH CENTRAL. . . . .	1 137	1 028	1 127
OKLAHOMA. . . . .	293	220	328
TEXAS. . . . .	844	808	799
MOUNTAIN. . . . .	1 178	1 032	1 110
MONTANA. . . . .	278	240	233
UTAH. . . . .	(D)	(D)	(D)
PACIFIC. . . . .	2 048	1 885	1 846
WASHINGTON. . . . .	709	573	584
OREGON. . . . .	467	471	395
CALIFORNIA AND HAWAII. . . . .	872	841	867

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

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

Revised by 5 percent or more from previously published data.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.

A UNITED STATES  
DEPARTMENT OF  
COMMERCE  
PUBLICATION



REFERENCE COPY

CURRENT INDUSTRIAL REPORTS

Flour Milling Products

July 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: September 8, 1971

BUREAU OF THE CENSUS  
SERIES M20A(71)-7

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 4.

Table 1A.--Summary of Seasonally Adjusted Wheat Flour Milling:  
1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
July.....	992	376	48,141
June.....	998	369	47,495
May.....	1,048	365	48,094
April.....	960	353	45,455
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
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October.....	1,008	375	47,085
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<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

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Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. This publication is for sale by the Bureau of the Census, Price: 15 cents per copy—\$1.50 per year.

Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
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July.....	919	20,216	348,585	45,150	(NA)	1,001	91.8	74.6
June.....	954	20,994	366,019	46,658	4,586	1,001	95.3	75.0
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March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
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January.....	1,045	20,894	361,329	46,405	(NA)	996	100.0	75.0
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August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7
July.....	891	19,620	344,587	44,119	(NA)	1,006	88.6	74.0

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	JULY 1971 QUANTITY	JUNE 1971 QUANTITY	JULY 1970 QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 050	1 012	1 056
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 311	2 149	2 326
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	204	174	173
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	463	395	390
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 557	2 302	2 387
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	39	30	(NA)
	24 HOUR CAPACITY (1) . . . . .	DO	10	10	13

NOTE: DATA INCLUDE ESTIMATES FOR SMALL MILLS. DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDIVIDUAL COMPANIES.

(NA) NOT AVAILABLE.

(1) COLLECTED QUARTERLY.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	JULY 1971 QUANTITY PRODUCED	JUNE 1971 QUANTITY PRODUCED	JULY 1970 QUANTITY PRODUCED
UNITED STATES: TOTAL . . . . .	20 216	20 994	19 991
MIDDLE ATLANTIC . . . . .	2 534	2 731	2 728
NEW YORK . . . . .	2 202	2 410	2 409
NORTH CENTRAL . . . . .	12 037	11 982	11 655
OHIO . . . . .	1 120	937	1 127
INDIANA . . . . .	545	521	492
ILLINOIS . . . . .	1 136	1 184	870
MICHIGAN . . . . .	566	620	593
MINNESOTA . . . . .	2 515	2 296	2 154
IOWA . . . . .	469	477	489
MISSOURI . . . . .	1 858	1 959	1 843
NEBRASKA . . . . .	661	664	689
KANSAS . . . . .	2 867	3 074	3 051
SOUTH ATLANTIC . . . . .	952	943	708
EAST SOUTH CENTRAL . . . . .	866	975	977
TENNESSEE . . . . .	635	735	750
WEST SOUTH CENTRAL . . . . .	1 182	1 137	1 015
OKLAHOMA . . . . .	354	293	273
TEXAS . . . . .	828	844	742
MOUNTAIN . . . . .	949	1 178	955
MONTANA . . . . .	238	278	256
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	1 696	2 048	1 933
WASHINGTON . . . . .	503	709	621
OREGON . . . . .	351	467	474
CALIFORNIA AND HAWAII . . . . .	842	872	858

NOTE: DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

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Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

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Stocks of flour (quarterly)--Represents mill stocks in all positions, sold and unsold.

CURRENT INDUSTRIAL REPORTS  
REFERENCE COPY

**Flour Milling Products**

OCT 1 12 47 PM '71 August 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

FOR RELEASE: September 24, 1971

SERIES: M20A(71)-8

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Wheat Flour Milling: 1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
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May.....	1,048	365	48,094
April.....	960	353	45,455
March.....	942	348	45,024
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(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produces as percent of capacity <sup>3</sup>	Flour extraction rate <sup>2</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
August.....	1,005	22,111	380,486	49,235	(NA)	1,001	100.4	74.8
July.....	919	20,225	348,733	45,164	(NA)	1,001	91.8	74.6
June.....	954	20,994	366,019	46,658	4,586	1,001	95.3	75.0
May.....	1,011	20,216	346,735	44,970	(NA)	1,002	100.9	74.9
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March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	<sup>r</sup> 988	<sup>r</sup> 100.0	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	<sup>r</sup> 988	<sup>r</sup> 105.7	75.0
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December.....	943	20,754	361,167	46,147	4,329	<sup>r</sup> 988	<sup>r</sup> 95.5	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
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July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
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March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
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October.....	1,016	23,357	407,352	51,894	(NA)	1,007	100.9	75.0
September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7
August.....	1,022	21,455	376,985	47,974	(NA)	1,006	88.6	74.7

Note: Data include estimates for small mills.

<sup>r</sup>Revised. (NA) Not available.<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	AUGUST	JULY	AUGUST
			1971	1971	1970
			QUANTITY	QUANTITY	QUANTITY
DURUM WHEAT (INCLUDED IN TABLE 1 DATA):					
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 362	1 050	1 400
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 931	2 311	3 059
RYE:					
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	190	204	291
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	434	463	645
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 424	2 557	3 433
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	(NA)	30	(NA)
	24 HOUR CAPACITY (1) . . . . .	DO	10	10	14

NOTE: DATA INCLUDE ESTIMATES FOR SMALL MILLS. DETAIL  
MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.

(NA) NOT AVAILABLE.

(1) COLLECTED QUARTERLY.

<sup>†</sup>REVISED BY 5 PERCENT OR MORE FROM PREVIOUSLY PUB-  
LISHED FIGURES.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	AUGUST	JULY	AUGUST
	1971	1971	1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES: TOTAL . . . . .	22 111	20 225	21 233
MIDDLE ATLANTIC . . . . .	2 907	2 534	2 816
NEW YORK . . . . .	2 545	2 202	2 444
NORTH CENTRAL . . . . .	13 044	12 076	12 372
OHIO . . . . .	1 131	1 122	1 027
INDIANA . . . . .	600	580	548
ILLINOIS . . . . .	1 233	1 136	1 057
MICHIGAN . . . . .	616	566	608
MINNESOTA . . . . .	2 705	2 515	2 327
IOWA . . . . .	480	469	509
MISSOURI . . . . .	2 107	1 858	2 073
NEBRASKA . . . . .	700	661	597
KANSAS . . . . .	3 112	2 869	3 282
SOUTH ATLANTIC . . . . .	963	933	727
EAST SOUTH CENTRAL . . . . .	958	866	1 000
TENNESSEE . . . . .	708	635	761
WEST SOUTH CENTRAL . . . . .	1 318	1 171	1 252
OKLAHOMA . . . . .	389	354	309
TEXAS . . . . .	929	817	943
MOUNTAIN . . . . .	1 138	949	978
MONTANA . . . . .	252	238	212
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	1 783	1 696	2 088
WASHINGTON . . . . .	501	503	698
OREGON . . . . .	394	351	483
CALIFORNIA AND HAWAII . . . . .	888	842	907

NOTE: DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT  
ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.

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Flour Milling Products

September 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

November 1971

SERIES: M20A(71)-9

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 5.

Table 1A.--Summary of Seasonally Adjusted  
Wheat Flour Milling: 1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
September.....	986	358	46,725
August.....	1,016	368	48,462
July.....	992	376	48,156
June.....	998	369	47,495
May.....	1,048	365	48,094
April.....	960	353	45,455
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
November.....	954	358	44,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,679
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>2</sup>			
December.....	1,076	386	49,403
November.....	1,040	385	49,085
October.....	988	368	46,284
September.....	999	371	47,706

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. This publication is for sale by the Bureau of the Census, Price: 15 cents per copy-\$1.50 per year.

Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
September.....	1,054	22,130	377,559	49,279	4,861	994	106.0	74.8
August.....	1,007	22,164	377,811	49,403	(NA)	1,001	100.6	74.8
July.....	919	20,255	348,733	45,164	(NA)	1,001	91.8	74.8
June.....	954	20,994	366,019	46,658	4,586	1,001	95.3	75.0
May.....	1,011	20,216	346,735	44,970	(NA)	1,002	100.9	74.9
April.....	894	19,662	334,910	43,525	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	<sup>r</sup> 988	<sup>r</sup> 100.0	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	<sup>r</sup> 988	<sup>r</sup> 105.7	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	<sup>r</sup> 988	<sup>r</sup> 95.5	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,440	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
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September.....	1,057	22,201	386,521	49,519	4,391	1,006	101.5	74.7

Note: Data include estimates for small mills.

<sup>r</sup>Revised. (NA) Not available.<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	SEPTEMBER	AUGUST	SEPTEMBER
			1971	1971	1970
			QUANTITY	QUANTITY	QUANTITY
DURUM WHEAT (INCLUDED IN TABLE 1 DATA):					
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 367	1 347	1 314
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 920	2 899	2 839
RYE:					
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	208	194	203
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	473	444	467
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	3 326	2 517	2 724
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	34	27	29
	24 HOUR CAPACITY (1) . . . . .	DO	12 488	10 382	14

NOTE: DATA INCLUDE ESTIMATES FOR SMALL MILLS. DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

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 (NA) NOT AVAILABLE.  
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TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES (1,000 CWT.)

GEOGRAPHIC AREA	SEPTEMBER	AUGUST	SEPTEMBER
	1971	1971	1970
QUANTITY PRODUCED			
UNITED STATES: TOTAL . . . . .	22 130	22 164	22 159
MIDDLE ATLANTIC . . . . .	2 931	2 935	2 870
NEW YORK . . . . .	2 550	2 532	2 498
NORTH CENTRAL . . . . .	13 132	13 046	12 774
OHIO . . . . .	1 202	1 131	1 076
INDIANA . . . . .	590	599	567
ILLINOIS . . . . .	1 342	1 212	1 319
MICHIGAN . . . . .	605	623	568
MINNESOTA . . . . .	2 721	2 721	2 322
IOWA . . . . .	498	480	503
MISSOURI . . . . .	2 095	2 111	2 218
NEBRASKA . . . . .	699	700	676
KANSAS . . . . .	3 019	3 109	3 164
SOUTH ATLANTIC . . . . .	915	969	759
EAST SOUTH CENTRAL . . . . .	971	979	1 022
TENNESSEE . . . . .	748	729	791
WEST SOUTH CENTRAL . . . . .	1 221	1 315	1 406
OKLAHOMA . . . . .	314	389	408
TEXAS . . . . .	907	926	998
MOUNTAIN . . . . .	1 173	1 138	1 095
MONTANA . . . . .	266	252	196
UTAH . . . . .	560	(D)	(D)
PACIFIC . . . . .	1 787	1 782	2 233
WASHINGTON . . . . .	533	507	681
OREGON . . . . .	337	386	548
CALIFORNIA AND HAWAII . . . . .	917	889	1 004

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Table 4.--Exports of Wheat Flour  
(1,000 cwt)

Country to which exported	September	August	9 months through September
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY			
TOTAL.....	386	298	2,813
Colombia.....	39	20	206
Brazil.....	13	58	190
Morocco.....	224	2	958
Other.....	110	218	1,459
WHEAT FLOUR, WHOLLY OF U.S. WHEAT, EXCEPT DURHAM FLOUR AND SEMOLINA			
TOTAL.....	1,177	1,373	13,680
Brazil.....	34	-	197
South Arabia.....	176	124	1,402
Ceylon.....	187	609	2,080
Indonesia.....	402	287	3,788
Korean Republic.....	33	32	854
Tunisia.....	12	-	101
Guinea.....	143	13	226
Congo.....	13	9	396
Other.....	177	299	4,636

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110, wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durham flour and semolina).

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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.

Flour Milling Products

October 1971

U.S. DEPARTMENT OF COMMERCE / Bureau of the Census



December 1971

SERIES: M20A(71)-10

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<sup>2</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
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April.....	894	19,662	334,910	43,525	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	<sup>r</sup> 91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	<sup>r</sup> 988	<sup>r</sup> 100.0	74.8
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November.....	1,167	22,170	385,439	49,344	(NA)	1,007	115.8	74.9
October.....	1,016	23,357	407,352	51,894	(NA)	1,007	100.9	75.0

Note: Data include estimates for small mills.

<sup>1</sup>Revised. (NA) Not available.<sup>2</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>3</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION; GRAIN CONSUMPTION;  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	OCTOBER 1971	SEPTEMBER 1971	OCTOBER 1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 363	1 367	1 169
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 908	2 920	2 551
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	213	208	206
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	477	473	459
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	3 028	3 042	2 456
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	(NA)	28	(NA)
	24 HOUR CAPACITY (1) . . . . .	DO	12	12	14

NOTE: DATA INCLUDE ESTIMATES FOR SMALL MILLS. DETAIL  
MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.

(NA) NOT AVAILABLE.

(1) COLLECTED QUARTERLY.

<sup>†</sup>REVISED BY 5 PERCENT OR MORE FROM PREVIOUSLY  
PUBLISHED FIGURES.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	OCTOBER 1971	SEPTEMBER 1971	OCTOBER 1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES: TOTAL . . . . .	21 697	22 137	23 364
MIDDLE ATLANTIC . . . . .	2 833	2 931	3 029
NEW YORK . . . . .	2 495	2 550	2 663
NORTH CENTRAL . . . . .	12 875	13 151	13 580
OHIO . . . . .	1 220	1 202	1 086
INDIANA . . . . .	636	590	645
ILLINOIS . . . . .	1 205	1 342	1 370
MICHIGAN . . . . .	637	628	651
MINNESOTA . . . . .	2 642	2 721	2 553
IOWA . . . . .	510	498	524
MISSOURI . . . . .	1 936	2 095	2 239
NEBRASKA . . . . .	722	699	684
KANSAS . . . . .	3 016	3 019	3 407
SOUTH ATLANTIC . . . . .	941	915	936
EAST SOUTH CENTRAL . . . . .	948	973	1 005
TENNESSEE . . . . .	711	750	761
WEST SOUTH CENTRAL . . . . .	1 079	1 207	1 401
OKLAHOMA . . . . .	308	314	432
TEXAS . . . . .	771	893	969
MOUNTAIN . . . . .	1 091	1 173	1 098
MONTANA . . . . .	239	266	185
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	1 930	1 787	2 315
WASHINGTON . . . . .	580	533	786
OREGON . . . . .	440	337	607
CALIFORNIA AND HAWAII . . . . .	910	917	922

NOTE: DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT  
ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.

Table 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt)

Country to which exported	October	September	10 months through September
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY			
TOTAL.....	427	386	3,240
Colombia.....	30	39	236
Brazil.....	5	13	195
Morocco.....	124	224	1,082
Other.....	268	110	1,727
WHEAT FLOUR, WHOLLY OF U.S. WHEAT, EXCEPT DURHAM FLOUR AND SEMOLINA			
TOTAL.....	981	1,177	14,661
Brazil.....	5	34	202
South Arabia.....	196	176	1,598
Ceylon.....	-	187	2,080
Indonesia.....	-	402	3,788
Korean Republic.....	31	33	885
Tunisia.....	90	12	191
Guinea.....	8	143	234
Congo.....	-	13	396
Other.....	651	177	5,287

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110, wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durham flour and semolina).

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.

REFERENCE COPY

CURRENT INDUSTRIAL REPORTS



Flour Milling Products

November 1971

U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

A UNITED STATES  
DEPARTMENT OF  
COMMERCE  
PUBLICATION



January 1972

SERIES: M20A(71)-11

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 5.

Table 1A.--Summary of Seasonally Adjusted  
Wheat Flour Milling: 1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
November.....	898	327	42,931
October.....	960	345	44,753
September.....	986	358	46,746
August.....	1,016	368	48,462
July.....	992	376	48,156
June.....	998	369	47,495
May.....	1,048	365	48,094
April.....	960	353	45,455
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
November.....	954	358	44,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,679
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>2</sup>			
December.....	1,076	386	49,403
November.....	1,040	385	49,085

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Data for 1969 and 1970 are taken from Current Industrial Reports Series M20A Supplement, Flour Milling Products Seasonal Adjustment Supplement published March 31, 1971.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. This publication is for sale by the Bureau of the Census, Price: 15 cents per copy-\$1.50 per year.

Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971  
(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
November.....	957	20,092	338,304	44,519	(NA)	994	96.3	75.2
October.....	1,033	21,702	367,704	48,166	(NA)	994	103.9	75.1
September.....	1,054	22,137	377,720	49,301	4,861	994	106.0	74.8
August.....	1,007	22,164	377,811	49,403	(NA)	1,001	100.6	74.8
July.....	919	20,255	348,733	45,164	(NA)	1,001	91.8	74.8
June.....	954	20,994	366,019	46,658	4,586	1,001	95.3	75.0
May.....	1,011	20,216	346,735	44,970	(NA)	1,002	100.9	74.9
April.....	894	19,662	334,910	43,525	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	988	100.0	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	988	105.7	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	988	95.5	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
October.....	1,062	23,364	406,751	51,708	(NA)	1,013	104.8	75.3
September.....	1,055	22,159	393,420	49,361	4,438	1,013	104.2	74.8
August.....	1,011	21,233	372,617	47,400	(NA)	1,005	100.6	75.1
July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
June.....	908	19,982	353,236	44,126	4,227	1,005	90.4	75.4
May.....	944	19,826	346,610	44,500	(NA)	1,003	94.0	74.3
April.....	943	20,756	352,272	45,834	(NA)	1,003	94.1	75.5
March.....	970	21,347	372,048	47,089	4,237	1,003	96.7	75.5
February.....	1,105	21,015	356,535	47,424	(NA)	1,013	109.1	73.9
January.....	1,046	21,960	383,457	48,905	(NA)	1,013	103.2	74.8
1969								
December.....	1,098	23,068	401,717	51,348	4,595	1,013	108.4	74.8
November.....	1,167	22,170	385,439	49,344	(NA)	1,007	115.8	74.9

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Collected quarterly.

<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION; GRAIN CONSUMPTION;  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	NOVEMBER	OCTOBER	NOVEMBER
			1971	1971	1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 374	1 363	1 157
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 652	2 908	2 491
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	199	213	185
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	438	477	420
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 695	3 028	2 312
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	(NA)	(NA)	(NA)
	24 HOUR CAPACITY (1) . . . . .	DO	12	12	14

NOTE: DATA INCLUDE ESTIMATES FOR SMALL MILLS. DETAIL  
MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.  
(NA) NOT AVAILABLE.  
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TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	NOVEMBER	OCTOBER	NOVEMBER
	1971	1971	1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES, TOTAL . . . . .	20 092	21 702	20 707
MIDDLE ATLANTIC . . . . .	2 805	2 833	2 634
NEW YORK . . . . .	2 403	2 495	2 303
NORTH CENTRAL . . . . .	11 658	12 888	12 125
OHIO . . . . .	1 054	1 214	1 065
INDIANA . . . . .	565	636	542
ILLINOIS . . . . .	1 076	1 224	1 118
MICHIGAN . . . . .	591	637	592
MINNESOTA . . . . .	2 490	2 642	2 195
IOWA . . . . .	456	510	462
MISSOURI . . . . .	1 882	1 936	1 984
NEBRASKA . . . . .	683	722	716
KANSAS . . . . .	2 530	3 016	3 083
SOUTH ATLANTIC . . . . .	921	939	717
EAST SOUTH CENTRAL . . . . .	927	948	896
TENNESSEE . . . . .	709	711	662
WEST SOUTH CENTRAL . . . . .	915	1 073	1 285
OKLAHOMA . . . . .	229	308	377
TEXAS . . . . .	686	765	908
MOUNTAIN . . . . .	1 040	1 091	1 135
MONTANA . . . . .	244	239	277
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	1 826	1 930	1 915
WASHINGTON . . . . .	563	580	588
OREGON . . . . .	385	440	472
CALIFORNIA AND HAWAII . . . . .	878	910	855

NOTE: DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT  
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Table 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt)

Country to which exported	November	October	11 months through November
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY			
TOTAL.....	263	427	3,503
Colombia.....	9	30	245
Brazil.....	30	5	220
Morocco.....	67	124	1,149
Other.....	157	268	1,889
WHEAT FLOUR, WHOLLY OF U.S. WHEAT, EXCEPT DURHAM FLOUR AND SEMOLINA			
TOTAL.....	908	981	15,569
Brazil.....	-	5	202
South Arabia.....	112	196	1,710
Ceylon.....	-	-	2,080
Indonesia.....	131	-	3,919
Korean Republic.....	84	31	969
Tunisia.....	-	90	191
Guinea.....	130	8	364
Congo.....	-	-	396
Other.....	451	651	5,738

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110, wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durham flour and semolina).

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This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

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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.



Flour Milling Products

December 1971



U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

February 1972

SERIES M20A(71)-12

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 5.

Table 1A.--Summary of Seasonally Adjusted  
Wheat Flour Milling: 1969 to 1971

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1971			
December.....	886	335	44,165
November.....	898	326	42,905
October.....	960	345	44,753
September.....	986	358	46,746
August.....	1,016	368	48,462
July.....	992	376	48,156
June.....	998	369	47,495
May.....	1,048	365	48,094
April.....	960	353	45,455
March.....	942	348	45,024
February.....	1,015	370	47,325
January.....	1,014	368	47,208
1970 <sup>2</sup>			
December.....	918	344	44,047
November.....	954	358	44,508
October.....	1,008	375	47,085
September.....	984	371	46,803
August.....	989	368	47,014
July.....	960	370	46,633
June.....	961	361	45,679
May.....	972	363	47,204
April.....	1,004	367	47,443
March.....	989	369	46,779
February.....	1,135	383	51,018
January.....	1,038	382	48,807
1969 <sup>2</sup>			
December.....	1,076	386	49,403

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

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Table 1B.--Summary of Wheat Flour Milling: 1969 to 1971

(Unadjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production (tons)	Wheat ground for flour (1,000 bushels)	Wheat flour mill stocks <sup>2</sup> (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup> (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1971								
December.....	911	20,961	350,784	46,265	4,362	977	93.3	75.5
November.....	957	20,090	7,800	44,492	(NA)	994	96.3	75.2
October.....	1,033	21,702	367,704	48,166	(NA)	994	103.9	75.1
September.....	1,054	22,137	377,720	49,301	4,861	994	106.0	74.8
August.....	1,007	22,164	377,811	49,403	(NA)	1,001	100.6	74.8
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June.....	954	20,994	366,019	46,658	4,586	1,001	95.3	75.0
May.....	1,011	20,216	346,735	44,970	(NA)	1,002	100.9	74.9
April.....	894	19,662	334,910	43,525	(NA)	1,002	89.2	75.3
March.....	913	21,004	362,570	46,705	4,732	1,002	91.1	75.0
February.....	988	19,761	344,821	44,038	(NA)	988	100.0	74.8
January.....	1,045	20,894	361,329	46,405	(NA)	988	105.7	75.0
1970								
December.....	943	20,754	361,167	46,147	4,329	988	95.5	75.0
November.....	1,035	20,707	361,196	46,161	(NA)	1,013	102.3	74.8
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July.....	869	19,991	349,526	44,700	(NA)	1,005	86.4	74.5
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December.....	1,098	23,068	401,717	51,348	4,595	1,013	108.4	74.8

Note: Data include estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday; January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

SIC CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	DECEMBER	NOVEMBER	DECEMBER
			1971	1971	1970
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1 403	1 374	1 216
2041155	BLENDED SEMOLINA DURUM FLOUR . . . . .	DO	(D)	(D)	(D)
0011373	DURUM WHEAT GROUND . . . . .	M BU	2 725	2 652	2 610
	RYE:				
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	201	199	208
0011351	RYE GROUND FOR FLOUR . . . . .	M BU	448	438	498
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2 762	2 695	2 511
2041611	RYE FLOUR STOCKS (1) . . . . .	M CWT	38	(NA)	44
	24 HOUR CAPACITY (1) . . . . .	DO	11	12	15

NOTE: DATA INCLUDE ESTIMATES FOR SMALL MILLS. DETAIL  
MAY NOT ADD TO TOTAL DUE TO INDEPENDENT ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.  
(NA) NOT AVAILABLE.  
(1) COLLECTED QUARTERLY.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES  
(1,000 CWT.)

GEOGRAPHIC AREA	DECEMBER	NOVEMBER	DECEMBER
	1971	1971	1970
	QUANTITY PRODUCED	QUANTITY PRODUCED	QUANTITY PRODUCED
UNITED STATES: TOTAL . . . . .	20 961	20 090	20 754
MIDDLE ATLANTIC . . . . .	2 806	2 805	2 829
NEW YORK . . . . .	2 439	2 403	2 453
NORTH CENTRAL . . . . .	12 145	11 675	11 969
OHIO . . . . .	1 073	1 054	1 024
INDIANA . . . . .	526	565	495
ILLINOIS . . . . .	1 122	1 076	1 157
MICHIGAN . . . . .	660	594	551
MINNESOTA . . . . .	2 543	2 490	2 236
IOWA . . . . .	397	456	479
MISSOURI . . . . .	1 998	1 896	2 051
NEBRASKA . . . . .	662	683	705
KANSAS . . . . .	2 806	2 530	2 917
SOUTH ATLANTIC . . . . .	934	927	749
EAST SOUTH CENTRAL . . . . .	967	911	914
TENNESSEE . . . . .	733	694	680
WEST SOUTH CENTRAL . . . . .	1 106	906	1 184
OKLAHOMA . . . . .	311	229	285
TEXAS . . . . .	795	677	899
MOUNTAIN . . . . .	1 228	1 040	1 083
MONTANA . . . . .	276	244	286
UTAH . . . . .	(D)	(D)	(D)
PACIFIC . . . . .	1 775	1 826	2 026
WASHINGTON . . . . .	587	563	606
OREGON . . . . .	292	385	454
CALIFORNIA AND HAWAII . . . . .	896	878	966

NOTE: DETAIL MAY NOT ADD TO TOTAL DUE TO INDEPENDENT  
ROUNDING.

(D) WITHHELD TO AVOID DISCLOSURE OF FIGURES FOR INDI-  
VIDUAL COMPANIES.

Table 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt)

Country to which exported	December	November	12 months through December
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
TOTAL.....	244	263	3,747
Colombia.....	12	9	257
Brazil.....	14	30	234
Morocco.....	-	67	1,149
Other.....	218	157	2,107
WHEAT FLOUR, WHOLLY OF U.S. WHEAT, EXCEPT DURHAM FLOUR AND SEMOLINA (0460120)			
TOTAL.....	1,059	908	16,628
Brazil.....	-	-	202
South Arabia.....	234	112	1,944
Ceylon.....	-	-	2,080
Indonesia.....	6	131	3,925
Korean Republic.....	41	84	1,010
Tunisia.....	-	-	191
Guinea.....	10	130	374
Congo.....	-	-	396
Other.....	768	451	6,506

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110, wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month variations which are due to factors that are not

associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

Units of quantity--Grain ground is measured in bushels of 60 lbs., for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100lbs.

Capacity--Based on replies to the question "What is the maximum quantity of flour that 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.

UNITED STATES  
DEPARTMENT OF  
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## CURRENT INDUSTRIAL REPORTS

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# Flour Milling Products

## Summary for 1971



U. S. DEPARTMENT OF COMMERCE • Social and Economic Statistics Administration • BUREAU OF THE CENSUS

April 1972

SERIES: M20A(71)-13

This report includes statistics for all the months of 1971 and 1970. All revisions in this series compiled for these years, including more detail by States than are shown in the monthly reports, are incorporated in this publication, thus providing a single reference copy to replace the monthly publications.

### SUMMARY OF FINDINGS

Total commercial production of wheat flour in 1971 amounted to 249.8 million cwt. sacks about 3.3 million cwt. sacks below the 1970 production which, in turn was approximately 7.9 million cwt. above the production for 1967. Production figures in 1971 and 1970 were at 99.9 and 99.7 percent, respectively, of total annual capacity.

Wheat mills in 1971 and 1970 ground 554.3 and 563.7 million bushels of wheat; corresponding mill feed production figures for these years were 4,279 and 4,409 thousand tons.

Production of rye flour in 1971 amounted to 2,367 thousand cwt. sacks, compared with 2,406 thousand cwt. sacks in 1970. Rye grindings in 1971 and 1970 were 5,281 and 5,467 thousand bushels, respectively.

### DESCRIPTION OF SURVEY

The statistics in this publication are a summary of those collected on Census monthly Form M20A, Flour Milling Products, from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The monthly figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 25 percent for any one item.

### HISTORICAL NOTE

The current M20A series of monthly reports with annual summaries of wheat ground and wheat-milling products originated in May 1923. Data by States have been published monthly since 1927. Beginning in 1931 and ending with the June 1947 report, monthly wheat flour production by capacity groups was published. The annual summary report during the years 1931 to 1964 also contained a table showing production by capacity groups.

### COMPARISON WITH OTHER PUBLICATIONS

In the periodic censuses of manufactures, data on quantity and value of shipments of wheat flour are published under Industry SIC Code 2041, Flour and Other Grain Mill Products. The quantity figures for 1967 and 1963 were 245,703 and 267,530 thousand cwt., respectively. The production figures for these years as published in table 1 of this report are 245,240 and 260,007 thousand cwt. sacks, respectively.

### ACKNOWLEDGMENTS

This report was prepared in the Industry Division under the direction of Robert J. Nealon, Chief of the Foods, Textiles, Apparel, and Leather Branch. Kenneth I. Hansen, Chief, Foods, assisted by Bernadette M. Banks, was directly responsible for the review of the data and preparation of the report. Elmer S. Biles, Acting Chief of the Division and Louis J. Owen, Acting Assistant Chief of Commodity and Industry Programs, provided overall direction, and coordination to this project.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233. This publication is for sale by the Bureau of the Census, Price: 15 cents per copy—\$1.50 per year.

Table 1.-- SUMMARY: COMMERCIAL WHEAT MILLING PRODUCTION: 1941 TO 1971

Year	Wheat flour production (1,000 cwt. sacks)	Wheat ground for flour (1,000 bushels)	Mill feed production (1,000 tons)	Average pounds per cwt. sacks of flour		Flour extraction rate (percent) <sup>1</sup>
				Wheat	Mill feed	
1941.....	216,800	504,300	4,356	139.6	40.2	71.6
1942.....	221,100	515,300	4,444	139.8	40.2	71.5
1943.....	237,900	551,100	4,718	139.0	39.7	71.9
1944.....	243,400	565,100	4,878	139.3	40.1	71.8
1945.....	274,400	640,720	5,598	140.1	40.8	71.4
1946.....	278,900	624,740	4,885	134.4	35.1	74.4
1947.....	305,499	701,798	5,913	137.8	38.7	72.6
1948.....	279,133	639,476	5,337	137.4	38.2	72.8
1949.....	234,351	543,475	4,651	139.1	39.7	71.9
1950.....	224,899	523,411	4,534	139.6	40.3	71.6
1951.....	229,292	535,235	4,626	140.1	40.4	71.4
1952.....	228,148	532,374	4,805	140.0	40.4	71.4
1953.....	222,177	515,446	4,432	139.2	39.9	71.8
1954.....	<sup>2</sup> 221,405	514,028	4,440	139.3	40.1	71.8
1955.....	225,648	522,851	4,482	139.0	39.7	71.9
1956.....	229,758	527,159	4,416	137.7	38.4	72.6
1957.....	238,888	548,532	4,584	137.8	38.4	72.6
1958.....	248,004	566,688	4,713	137.1	38.0	72.9
1959.....	250,568	570,856	4,707	136.7	37.6	73.0
1960.....	255,141	582,719	4,827	137.0	37.8	73.0
1961.....	260,316	591,999	4,858	136.4	37.3	73.3
1962.....	262,069	595,353	4,876	136.3	37.2	73.4
1963.....	260,007	589,245	4,794	136.0	36.9	73.5
1964.....	261,683	591,654	4,890	135.7	37.4	73.7
1965.....	250,384	564,724	4,645	135.3	37.1	73.9
1966.....	253,000	568,672	4,619	134.8	36.5	74.1
1967.....	245,240	549,801	4,423	134.5	36.1	74.3
1968.....	254,185	569,649	4,511	134.5	35.6	74.4
1969.....	254,094	567,956	4,458	134.1	35.1	74.6
1970.....	253,094	563,714	4,409	133.6	34.8	74.8
1971.....	249,810	555,092	4,279	133.3	34.3	75.0

Note: Figures for all years represent total production and grindings of commercial mills in the United States. For 1941 to 1944, estimates developed with the cooperation of the Bureau of Agricultural Economics. For 1945 to 1946, Census estimates. For 1947 to 1950, as reported to Census Bureau by all commercial mills. Data for 1951 and subsequent years are based on monthly reports from all commercial mills with a daily capacity of over 400 cwt. sacks.

<sup>1</sup>Wheat flour production as compared with the amount of wheat ground. <sup>2</sup>Based on 1954 Census of Manufactures. See Census report MC-20D, Grain Mill Products.

Table 2.--COMMERCIAL WHEAT MILLING PRODUCTION, SEASONALLY ADJUSTED AND UNADJUSTED, BY MONTH: 1971 AND 1970

Month	Seasonally adjusted			Unadjusted						
	Wheat flour production average per working day (1,000 cwt. sacks)	Wheat ground for flour (1,000 bushels)	Mill feed production (1,000 tons)	Wheat flour production (1,000 cwt. sacks)		Wheat ground for flour (1,000 bushels)	Mill feed production (1,000 tons)	Average pounds per cwt. sack of flour		Flour extraction rate (percent) <sup>2</sup>
				Average per working day	Calendar month total			Wheat	Mill feed	
1971, total....	(X)	(X)	(X)	972	249,810	555,092	4,279	133.3	34.3	75.0
January.....	1,025	46,831	366	1,045	20,894	46,405	361	133.3	34.6	75.0
February.....	996	46,435	368	988	19,761	44,038	345	133.7	34.9	74.8
March.....	957	45,740	354	913	21,004	46,705	363	133.4	34.6	75.0
April.....	971	45,926	357	894	19,652	43,525	335	132.8	34.1	75.3
May.....	1,002	48,095	368	1,011	20,216	44,970	347	133.5	34.3	74.9
June.....	999	47,204	366	954	20,994	46,658	366	133.3	34.9	75.0
July.....	1,004	48,137	372	919	20,225	45,164	349	134.0	34.5	74.6
August.....	1,011	47,855	368	1,007	22,164	49,408	378	133.7	34.1	74.8
September.....	986	46,477	355	1,054	22,137	49,301	378	133.6	34.2	74.8
October.....	950	44,503	345	1,033	21,702	48,166	368	133.2	33.9	75.1
November.....	915	43,751	331	957	20,090	44,492	338	132.9	33.6	75.2
December.....	895	44,425	338	911	20,961	46,265	351	132.4	33.5	75.5
1970, total....	(X)	(X)	(X)	993	253,094	563,714	4,409	133.6	34.8	74.8
January.....	1,050	48,809	381	1,046	21,960	48,917	382	133.7	34.9	74.8
February.....	1,117	50,110	381	1,105	21,015	47,424	357	135.4	34.0	73.9
March.....	1,001	47,332	374	970	21,347	47,396	372	133.2	34.8	75.5
April.....	1,012	47,745	370	943	20,756	45,834	352	132.5	33.9	75.5
May.....	934	47,257	365	944	19,826	44,500	347	134.7	35.0	74.3
June.....	964	45,675	360	908	19,982	44,126	353	132.5	35.3	75.4
July.....	968	46,287	367	869	19,991	44,700	350	134.2	35.0	74.5
August.....	985	46,425	364	1,011	21,233	47,440	373	134.1	35.1	75.1
September.....	983	46,533	369	1,055	22,159	49,361	393	133.7	35.5	74.8
October.....	1,002	47,629	375	1,062	23,264	51,708	407	132.8	34.8	75.3
November.....	969	45,945	361	1,035	20,707	46,161	361	133.8	34.8	74.8
December.....	925	44,486	346	943	20,754	46,147	361	132.1	34.4	75.0

(X) Not applicable.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Wheat flour production as compared with amount of wheat ground.

Table 3.--COMMERCIAL RYE MILLING PRODUCTION, BY MONTHS: 1971 AND 1970

Month	Rye flour production (1,000 cwt. sacks)	Rye ground for flour (1,000 bushels)	Mill feed production (tons)	Average pounds per cwt. sack of flour		Flour extraction rate (percent) <sup>1</sup>
				Rye	Mill feed	
1971, TOTAL.....	2,367	5,281	30,361	124.9	25.7	80.0
January.....	207	457	2,221	123.6	21.5	80.9
February.....	206	440	2,342	119.6	22.7	83.6
March.....	189	422	2,431	125.0	25.7	80.0
April.....	179	398	2,161	124.5	24.1	80.3
May.....	193	426	2,303	123.6	23.9	80.9
June.....	174	395	2,302	127.1	26.5	78.7
July.....	204	463	2,557	127.1	25.1	78.7
August.....	194	444	2,517	128.2	25.9	78.0
September.....	208	473	3,042	127.3	29.2	78.5
October.....	213	477	3,028	125.4	28.4	79.7
November.....	199	438	2,695	123.2	27.1	81.1
December.....	201	448	2,762	124.8	27.5	80.1
1970, TOTAL.....	2,406	5,467	31,350	127.3	26.0	78.6
January.....	221	497	2,738	125.8	24.8	79.5
February.....	213	510	3,180	134.3	29.9	74.5
March.....	186	422	2,641	126.9	28.4	78.8
April.....	163	343	2,060	125.5	26.9	79.7
May.....	186	408	2,310	122.6	24.8	81.6
June.....	181	408	2,598	126.0	28.8	79.4
July.....	173	390	2,387	126.0	27.6	79.4
August.....	291	645	3,433	124.1	23.6	80.6
September.....	203	467	2,724	129.1	26.8	77.5
October.....	206	459	2,456	124.8	23.8	80.2
November.....	185	420	2,312	127.0	25.0	78.7
December.....	208	498	2,511	134.1	24.2	74.6

<sup>1</sup>Rye flour production as compared with amount of rye ground.

Table 4.--COMMERCIAL WHEAT MILLING PRODUCTION, BY GEOGRAPHIC AREAS: 1971 AND 1970

Geographic areas	1971				1970			
	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 <sup>1</sup> (24 hour) capacity (cwt. sacks)	Percent of estimated annual capacity <sup>2</sup>		Total (1,000 cwt. sacks)	Daily <sup>1</sup> (24 hour) capacity (cwt. sacks)	Percent of estimated annual capacity <sup>2</sup>
UNITED STATES, TOTAL..	555,092	249,810	972,736	99.9	563,714	253,094	987,962	99.7
Middle Atlantic division..	69,976	31,891	109,400	113.4	70,730	32,289	118,232	106.3
New York.....	27,624	91,377	91,377	117.6	60,738	28,075	99,859	109.4
North Central Region.....	324,363	146,139	549,529	103.5	329,814	148,163	557,884	103.3
Ohio.....	29,917	13,057	56,645	89.7	29,832	13,101	56,145	90.8
Indiana.....	15,270	6,632	25,624	100.7	15,377	6,556	25,888	98.5
Illinois.....	31,737	14,000	49,774	109.4	30,537	13,413	63,658	82.0
Michigan.....	16,003	7,120	34,029	81.4	16,506	7,275	34,656	81.7
Minnesota.....	64,041	29,526	106,851	107.5	60,195	27,810	97,911	110.5
Iowa.....	12,251	5,489	20,951	101.9	12,777	5,769	20,801	107.9
Missouri.....	51,164	23,385	81,900	111.1	52,095	23,765	78,926	117.2
Nebraska.....	18,833	8,166	32,023	99.2	18,723	8,076	32,023	98.1
Kansas.....	76,174	34,815	123,019	110.1	81,533	36,938	129,741	110.8
South Atlantic division..	25,407	11,094	49,800	86.7	19,876	8,820	44,689	76.8
East South Central division	25,615	11,142	52,409	82.7	26,504	11,544	50,290	89.3
Tennessee.....	19,080	8,337	32,133	101.0	20,065	8,781	30,314	112.7
West South Central division	30,434	13,488	59,217	88.6	33,944	15,023	66,032	88.5
Oklahoma.....	8,247	3,761	16,633	88.0	9,502	4,342	16,633	101.6
Texas.....	22,187	9,727	42,584	88.9	24,442	10,681	49,399	84.1
Mountain division.....	29,118	13,138	64,619	79.1	29,602	13,226	60,764	84.7
Montana.....	6,691	3,140	12,810	95.4	6,469	2,986	12,855	90.4
Utah.....	(D)	(D)	29,022	(D)	(D)	(D)	25,122	(D)
Pacific division.....	50,179	22,918	87,762	101.6	53,244	24,029	90,071	103.8
Washington.....	15,767	7,227	30,085	93.5	17,232	7,808	29,985	101.3
Oregon.....	11,169	5,056	23,025	85.4	12,733	5,695	23,525	94.2
California <sup>3</sup> .....	23,243	10,635	32,552	127.1	23,279	10,526	36,561	112.0

(D) Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Capacity as reported for December of each year.

<sup>2</sup>Estimated annual capacity is obtained by multiplying daily capacity by the number of work days during the year, 255 for 1969, 257 for 1970 and 1971. This figure is calculated on the basis of a 5-day week with allowances for the following holidays unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>3</sup>Data include Hawaii.

Table 5.--PRODUCTION AND MILL STOCKS OF WHEAT FLOUR, BY QUARTERS: 1971 AND 1970

Quarter	Production (1,000 cwt. sacks)	Mill stocks (1,000 cwt. sacks)
1971:		
First.....	61,659	4,732
Second.....	60,872	4,586
Third.....	64,526	4,861
Fourth.....	62,753	4,362
1970:		
First.....	64,322	4,237
Second.....	80,564	4,227
Third.....	63,383	4,438
Fourth.....	64,825	4,329

Table 6.--DURUM WHEAT PRODUCTS: 1971 AND 1970

Item	1971		1970	
	Jan. 1- June 30	July 1- Dec. 31	Jan. 1- June 30	July 1- Dec. 31
Durum wheat ground (thousand bushels).....	15,821	16,415	16,176	15,876
Straight semolina and durum flour produced (thousand sacks (cwt.)).....	7,347	7,904	7,501	7,312
Blended semolina and durum flour produced (thousand sacks (cwt.))...	(D)	(D)	(D)	(D)

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

Table 7.--WHEAT FLOUR AND SEMOLINA AND DURUM FLOUR--PRODUCTION, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION: 1971 AND 1970

Manufacturers' shipments represent quantity and value (f.o.b. plant) of physical shipments, including interplant transfers, from establishments during each year. Export values are values at seaport, border point, or airport of exportation; they are based on selling price, including freight, insurance, and other charges to the port of exportation. Import values are generally the market values in the foreign country and exclude U.S. import duties, transportation, and insurance cost. Total

import values and unit prices of imported commodities would thus tend to be understated relative to domestic output. Because manufacturers' shipments of certain products may be used as materials for incorporation into other products, it may not be valid to compare exports and imports with shipments for combinations of product groups. See "Limitations on the Comparison of Export, Import, and Output Data."

Item	Manufacturers' production (1,000 cwt)	Exports of domestic merchandise <sup>1</sup>		Percent, exports to manufacturers' production	Imports for consumption (1,000 cwt)	Calculated import duty (\$1,000)	Apparent consumption <sup>4</sup> (1,000 cwt)	Percent, imports to apparent consumption
		Quantity (1,000 cwt)	Value (\$1,000)					
1971								
Wheat flour.....	249,810	<sup>2</sup> 20,556	<sup>3</sup> 23,556	8.2	( <sup>4</sup> )	(NA)	<sup>5</sup> 229,254	(NA)
Semolina and durum flour.....	15,251	<sup>2</sup> 129	<sup>3</sup> 584	0.8	( <sup>4</sup> )	(NA)	<sup>5</sup> 15,122	(NA)
1970								
Wheat flour.....	253,094	<sup>2</sup> 26,002	<sup>3</sup> 99,739	10.3	( <sup>4</sup> )	(NA)	<sup>5</sup> 227,092	(NA)
Semolina and durum flour.....	14,813	<sup>2</sup> 97	<sup>3</sup> 343	0.4	( <sup>4</sup> )	(NA)	<sup>5</sup> 14,746	(NA)

(NA) Not available.

<sup>1</sup>Source: Bureau of the Census Report FT 610, U.S. Exports of Domestic Merchandise; SIC-Based Products and Area.

<sup>2</sup>1971 and 1970 Schedule B codes 0460110, 0460120, 0460140, 0460150.

<sup>3</sup>1971 and 1970 Schedule B code 0460130.

<sup>4</sup>Apparent consumption is derived by subtracting exports from the total manufacturers' production. Imports are not used in this instance because import data for flour are not separately available. Imports (TSUSA codes 1314000 and 1318500) of flour are considered to be insignificant. Also, see footnote 5 below.

<sup>5</sup>TSUSA codes 1314000 and 1318500 could have an undetermined amount of flour which means that Apparent Consumption may be slightly understated. (1314000 is "Wheat, Milled, Fit for Human Consumption;" 1318500 is "Milled Grains, Mixed, Fit for Human Consumption.")

## LIMITATIONS ON THE COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

Generally, it is somewhat easier to find a reasonable statistical basis for a comparison of exports with domestic output than for a comparison of imports with domestic output. Aside from the differences in the basic commodity classifications used, there are a substantial number of imported commodities which are not produced in the United States or are produced in very small quantities. On the other hand, the merchandise exported from the United States is ordinarily produced in this country and reflects items important in output.

There are other problems affecting the comparability of the three sets of data. Differences in methods of valuation is perhaps the principal such problem. There may be elements of duplication in output data but not in imports or exports; low-value transactions are excluded from data for individual export and import commodity classifications; and a small portion of manufacturing output is not allocated to detailed commodity lines. All of these factors affect comparability to some degree. For these reasons the relationships shown in this report should be considered as only approximations.

(a) Valuation.--Domestic producers' shipments, or production, are usually valued at the point of production--the factory, mine, or farm.

On the other hand, exports are by definition valued at the point of exportation--seaport, border point, or airport. Export values are the selling price, or cost if not sold, and include expenditures for freight, insurance, and other charges to the export point.

Further, the exporters' trade margin above costs increases the export values compared with producers' values. Information on the magnitude of this incremental margin on a commodity-by-commodity basis is not available.

The dollar value shown for imports in the basic statistics is defined ordinarily as the market value in the foreign country and excludes U.S. import duties, transportation, insurance, and other costs. In actual practice only the values reported for imports subject to an ad valorem rate of duty (accounting for 10 to 15 percent of total imports) tend to conform to this definition. For other imports, the reported values may inadvertently include ocean freight; intracompany shipments may reflect arbitrary values; etc.

Thus, import values tend to understate the unit prices at which imported goods are sold in the U.S. market, in that they do not cover transportation, insurance costs, import duties, and other costs. By the same token, the total value of imports relative to domestic output tends to be understated if viewed at the point of entry into the U.S. market. The calculated value of import duties is shown separately for each commodity line in the table,

but sufficient information is not available on the transportation, insurance, and other costs for individual commodities for those costs to be shown in this report.

(b) 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 4-digit or broader levels may be understated.

Where the duplication is known to be substantial, the output data are appropriately noted in the table.

(c) Low-value 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 \$251 effective October 1969 and for shipments valued under \$100 prior to October 1969. This is believed to have only negligible effect on the statistics for the bulk of the commodities.

(d) Manufacturers' shipments, not specified by kind.--The value of manufacturers' shipments at the 4-digit commodity level often includes a small amount which is not distributed among the individual 5-digit product classes. Export and import percentages at the more detailed levels might thus be slightly overstated.

(e) Time lag between output and exports.--There will sometimes be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported. The time lag will usually be greater if the merchandise moves through intermediaries (wholesalers, exporters) rather than directly from producers into the export market. Ordinarily, this type of discrepancy would not be very important in annual figures.

(f) "Direct" vs "total" commodity exports.--The commodity export data in this report represent direct exports of those commodities. They do not include the exports of the commodities which are incorporated into other, more finished products and exported in finished form. Thus, by showing only direct exports, the relation of exports to output for intermediate products, such as steel shapes and forms, is considerably understated. The figure for steel exported as such, does not include steel incorporated in automobiles, tractors, etc., which are also exported.

(g) 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.