PRICES RECEIVED BY FARMERS

Minnesota-Wisconsin Manufacturing Grade Milk Price Series and Final Two-State Estimates for 1980 - 1982



MINNESOTA-WISCONSIN MANUFACTURING GRADE MILK PRICE SERIES AND FINAL TWO-STATE ESTIMATES FOR 1980-82

The Statistical Reporting Service of the U.S. Department of Agriculture publishes each month, estimates of the average price received by farmers and the average milkfat test for milk of manufacturing grade for the preceding month for the Minnesota-Wisconsin area.

These two States consistently produce over half of the manufacturing grade milk marketed in the United States. The estimates relate only to manufacturing grade milk purchased from farmers and do not include Grade A milk diverted to manufacturing uses. Data needed for the preparation of the two-State series are collected by the offices of the Federal-State Agricultural Statisticians in Minnesota and Wisconsin. These data come from regularly scheduled monthly reports submitted by plants receiving manufacturing grade milk. After data are summarized and analyzed by the Federal-State Statisticians, they are forwarded to Washington, D. C. for final review by the Crop Reporting Board and consolidation into the two-State average price and test.

The Minnesota-Wisconsin (M-W) estimate is the average price for all milk of manufacturing grade delivered in bulk tanks and in cans f.o.b. plant or receiving station, before hauling costs are deducted. It includes bulk-tank, quantity, or other premiums paid to producers, but excludes hauling subsidies. The price estimates for a given month are derived from two factors: (1) Estimated average price for the base month, which is the month preceding that to which the M-W price estimate relates, and (2) Estimate of change from the base month to the month to which the M-W price estimate relates.

The base-month price and test are determined from reports from about 175 plants in Wisconsin and 100 in Minnesota. These plants purchase approximately 60 percent of all manufacturing-grade milk sold in the two States. Plants report total pounds of manufacturing-grade milk received from producers, total pounds of milkfat in the milk, and total dollars paid to producers.

The estimated monthly prices and fat tests are weighted together by the total quantity of manufacturing-grade milk purchased from farmers in each State. During the first four months of the year, these weights are based on milk purchases for the same month two years earlier. During the remaining eight months of the year, weights are based on purchases for the corresponding month in the preceding year.

The 275 plants in the base-month sample are well distributed geographically over both States and represent all the major types of processing plants using manufacturing-grade milk. At the end of the year, reports from all manufacturing-grade milk plants in each State indicate close agreement with the monthly prices derived from the 275 plants.

The estimate of change from the base month to the month to which the M-W price estimate relates is based on reports from a sample of 110 plants selected in the two States (about 40 plants in Minnesota and 70 in Wisconsin). These plants' reports are also evaluated in terms of changes from the base month in wholesale prices of manufactured dairy products and historical price and fat-test relationships. Estimated changes in price and fat-test are applied to the State average for the base month to estimate price and fat-test for each State for the month to which the estimate relates.

Plants in Minnesota and Wisconsin are classified into three major product groups according to the proportion of manufacturing-grade milk purchased for cheese, for butter and its by-products, and for varied products. In both Minnesota and Wisconsin, the varied-products group consists mostly of plants which make butter, cheese, or other products in such proportions that they cannot be clearly classified in any one specific group, such as primarily buttermaking plants or cheesemaking plants. In Minnesota during 1982, the cheese group accounted for 64 percent of all manufacturing-grade milk in the State, butter and by-products, 25 percent, and the varied-products group, 11 percent. The proportion of manufacturing-grade milk in Wisconsin purchased in 1982 by each product group was: cheese, 88 percent; butter and by-products, 3 percent; and varied products, 9 percent.

The percentages of milk for each use are used as weights for combining reported price and milkfat test data by groups for the monthly manufacturing-grade average price and milkfat estimates in each State.

Data for the M-W price series are collected from the 110-plant sample, using a questionnaire mailed near the close of each month. This inquiry obtains information for the base month and for the first half of the succeeding month relating to: (1) quantity of manufacturing-grade milk purchased, (2) quantity of fat included, (3) dollars paid, (4) average price at average test, and (5) related information, such as quantities purchased in bulk and in cans, the base price for milk with 3.5 percent fat, and point differentials for varying amounts of fat. Space also is provided on the inquiry for the plant manager's best estimate of the average fat test and milk price for the last half of the month to which the M-W estimate relates.

COMPARISON OF M-W SERIES AND FINAL ESTIMATES - The table on page 4 gives a comparison of the current Minnesota-Wisconsin manufacturing-grade milk price at average test with the final estimate combined for the two States from 1980 through 1982, together with the corresponding comparison for milkfat percentage. The entries in the column headed "Final Two-State Estimate" are weighted averages of the final monthly prices for Minnesota and Wisconsin combined, using complete monthly marketings for each State as weights.

For the 3 years 1980 through 1982, the annual average differences between the current Minnesota-Wisconsin estimates of price per hundredweight (at test) and the final data averaged about .1 cent; the difference in average milkfat test was about .1 percent.

Since the Minnesota-Wisconsin price for use in Federal milk orders is reported on a 3.5 percent milkfat basis, a table is included showing the same comparisons converted to a 3.5 percent basis. The price at average milkfat test is converted to a 3.5 percent basis using a milkfat differential per point (1/10 of one percent) that is calculated by multiplying the average wholesale selling price of Grade A (92 - score) butter at Chicago by 0.120. This is the method specified in Federal milk orders.

PUBLICATION - The monthly M-W report of price per hundredweight at average milkfat test and on a 3.5 percent basis is issued about the 5th of the following month from the Wisconsin office of the Statistical Reporting Service, P.O. Box 9160, Madison, Wisconsin 53715. This report is available on a subscription basis from that office. The price series is also published in the Dairy Market News reports issued by the Dairy Division, Agricultural Marketing Service.

COMPARISON OF MINNESOTA-WISCONSIN MANUFACTURING GRADE MILK PRICE AND MILKFAT TEST WITH THE TWO-STATE AVERAGE OF FINAL ESTIMATES, BY MONTHS, 1980-83

YEAR : AND : MONTH :-	WISCO	SOTA- NSIN ES	: F1 : TWO- : EST1	STATE				NCE
: :	CWT 1/	: TEST	: PRICE PER : CWT 1/	: TEST		CWT 1/		MILKFAT TEST
1980	DOLLARS	PERCENT		PERCENT		DOLLARS		PERCENT
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT	11.74 11.95 12.03 11.94 11.83 11.81	3.79 3.75 3.73 3.72 3.67 3.59 3.55 3.57 3.68	11.77 11.91 11.96	3.79 3.75 3.75 3.72 3.64 3.59 3.54 3.58 3.71 3.82 3.83		03 +.03 04 07 06 0 03 +.01 +.13 +.02 +.01		0 01 +.01 +.03 +.01
· · · · · · · · · · · · · · · · · · ·				3.81		+.03		
SIMPLE AVERAGE :	12.2292	3,7100	12.2292	3.7108		.0000		+.0008
	13.07 13.02 12.94 12.88 12.75 12.64 12.61 12.82 13.12	3.70 3.67 3.65 3.59 3.56 3.58 3.70 3.83 3.79	13.04 12.99 12.93 12.86 12.72 12.58	3.69 3.67 3.64 3.59 3.56 3.58 3.70 3.83 3.82 3.80		02 03 03 01 02 03 06 +.02 +.04 +.05 +.03 0		0 0 0 0 0 01
	12.9300	3.7000	12.9250	3,0950	~	0050		0050
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC SIMPLE AVERAGE		3.77 3.76 3.73 3.70 3.67 3.60 3.57 3.58 3.69 3.84 3.85 3.81	13.05 12.92 12.86 12.82 12.70 12.60 12.55 12.56 12.89 13.15 13.22 13.16	3.79 3.74 3.73 3.71 3.66 3.60 3.57 3.57 3.73 3.83 3.84 3.81		+.02 0 0 +.02 03 0 +.01 02 +.09 01 +.04 01		+.02 02 0 +.01 01 0 0 01 +.04 01 01
36-MONTH : SIMPLE AVERAGE :	12.6745	3,7081	12.6758	3.7069		+.0013		0012

^{1/} AVERAGE PRICE FOR MILK OF AVERAGE MILKFAT TEST.

COMPARISON OF MINNESOTA-WISCONSIN MANUFACTURING GRADE MILK PRICE PER CWT. WITH FINAL TWO-STATE ESTIMATED PRICE, FOR MILK OF 3.5 PERCENT MILKFAT CONTENT, BY MONTHS, 1980-83 1/

YEAR : AND : MONTH :	MINNESOTA- WISCONSIN SERIES	: FINAL : TWO-STATE : ESTIMATE	: DIFFERENCE :
1980 :		DOLLARS	
:			
JAN : FEB :	11.37	11.34	03
FEB :	11.35	11.38	+.03
MAR : APR :	11.59 11.68	11.52 11.61	07 07
APR : MAY :	11.66	11.65	07 01
JUN	11.68	11.68	0
JUL :	11.73	11.71	02
AUG :	11.86	11.85	01
SEP :	12.07	12.14	+.07
OCT :		12.43	+.01
NOV :	12.52	12.57	+.05
DEC :	12.61	12.64	+.03
SIMPLE AVERAGE :	11.8783	11.8767	0016
1981 :			
JAN :	12.64	12.66	+.02
EB :	12.66	12.67	+.01
IAR :	12.67	12.65	02
APR :	12.64	12.63	01
<u> </u>	12.61	12.61	.0
JUN :	12.59	12.56 12.47	03
JUL : AUG :	12.53 12.47	12.47	06 +.02
SEP :	12.46	12.50	+.04
OCT :	12.52	12.57	+.05
vor	12.52	12.57	+.05
DEC :	12.56	12.55	01
SIMPLE AVERAGE :	12.5725	12.5775	+.0050
<u> 1982</u> :			,
JAN :	12.55	12.54	01
EB :	12.46	12.50	+.04
MAR :	12.45	12.45	0
PR :	12.45	12.45	0
<u> </u>	12.43	12.42	01
JUN :	12.42	12.42	0
IUL :	12.42	12.43	+.01
EP :	12.44 12.46	12 .44 12 .4 8	0 +.02
OCT :	12.40 12.56	12.48	+.02 +.01
iov :	12.56	12.57	+.05
EC :	12.62	12.61	01
SIMPLE AVERAGE :	12.4850	12.4933	+.0083
36-MONTH :			,
SIMPLE AVERAGE :	12.3119	12.3158	+.0039

^{1/} PRICES HAVE BEEN CONVERTED FROM THE AVERAGE MILKFAT TEST TO 3.5 PERCENT USING THE MILKFAT DIFFERENTIAL SPECIFIED IN FEDERAL ORDERS (CHICAGO GRADE A BUTTER PRICE X 0.120).

MANUFACTURING GRADE MILK: WEIGHTS USED TO CALCULATE THE MINNESOTA-WISCONSIN MILK PRICE SERIES, BY MONTHS, 1982-84 1/

MONT	, ru	: 1982		;	: 1983			;		1984	
HON	in :	MINN	: WI	5 ;	MINN	:	WIS	:	MINN	:	WIS
	:				P	ERCENT					
JAN	:	40.5	59	.5	42.4		57.6		41.8		58.2
EB	:	41.1	58	9	42.9		57.1		41.6		58.4
1AR	:	40.9	59.	.1	42.7		57.3		41.3		58.7
AP,R	:	40.4	59	.6	41.7		58.3		40.1		59.9
YAY	:	40.8	59.	. 2	39.1		60.9				
JUN	:	39.7	60	.3	38.3		61.7				
JUL	:	38.7	61.	.3	37.5		62.5				
₹UG	:	37.5	62	.5	36.1		63.9				
SEP	:	37.6	62		36.5		63.5				
OCT	2	38.8	61		37.5		62.5			-	
VOV	•	40.4	59.		39,4		60.6			•	
DEC		41.7	58		40.5		59.5				

^{1/} WEIGHTS SHOWN FOR JUN THROUGH APR ARE BASED UPON PURCHASES OF MANUFACTURING GRADE MILK TWO YEARS EARLIER WHILE WEIGHTS FOR MAY THROUGH DEC ARE BASED UPON PURCHASES FROM A YEAR EARLIER. "FINAL TWO-STATE" ESTIMATES ARE WEIGHTED BY COMPLETE MONTHLY MARKETINGS FOR THE RESPECTIVE MONTH.

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	Farm Prod. Expenditures	***			Soybean Stocks (1)		
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	Monthly	20.00	20.10		Milk: Production, Disposition,		
	Annual				and Income	•	
<u>C3</u>	Crop Production (16 issues)	29.00	36.25		Non-Citrus Fruits (2 Issues)	5.50	6.90
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	Annual Summary				Annuai		
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	and Income	***	-/-				
	Hatchery Prod. Annual	-					
	Turkeys	•/-					
	Poultry: Production,						
	Disposition and Value	•**	***				
	Hatchery Prod. Annual	•••					
	•		•••				
	Turkeys						

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