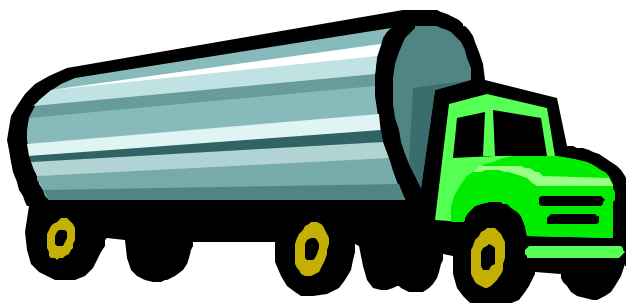


**MILK HAULING CHARGES IN THE  
UPPER MIDWEST MARKETING AREA  
MAY 1999**

**(May 1999 with Comparisons to May of Earlier Years)**



Staff Paper 00-03

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October 2000

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Nicholas A. Larks  
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## ABSTRACT

Milk hauling charges (to the first point of delivery) were examined for the 10,405 producers in five states on the Upper Midwest Order for May 1999. Comparisons were made to May of earlier years. Major conclusions are as follows:

- 1) The average hauling charge for producers on the Upper Midwest Order in May 1999 was 20.8¢ per cwt., up from 17.6¢ for May 1998 and 17.7¢ for May 1997.
- 2) Average hauling charges for the market peaked at 30.5¢ in 1982, and have generally trended downward since that time. The 1998 average was the lowest market average since data collection began in 1979, but in 1999 it rose to 20.8¢ per cwt., the highest average since 1995.
- 3) For the five states which supplied milk to the market in May 1999, hauling charges (per cwt.) averaged 15.3¢ in Wisconsin, 19.6¢ in Iowa, 21.3¢ in Minnesota, 42.7¢ in South Dakota, and 55.5¢ in North Dakota.
- 4) Hauling charges were generally lowest in central and west-central Wisconsin and central and southeastern Minnesota. Charges generally increased moving west and north across the milk procurement area, with the highest charges found in the north-central to northwestern portions of the procurement area.
- 5) The hauling charges per hundredweight generally declined as the volume of milk delivered per farm increased, but some charges may have increased because of distance factors.

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**MILK HAULING CHARGES IN THE UPPER MIDWEST MARKETING AREA  
(May 1999 with Comparisons to May of Earlier Years)**

Nicholas A. Larks<sup>1</sup>  
Rodney M. Sebastian<sup>2</sup>

**I. INTRODUCTION**

Milk hauling charges (to the first point of delivery) were examined for the 10,405 producers in the five states on the Upper Midwest Order for May 1999 and compared to May of earlier years. The data included all producers whose milk historically has been pooled, even though in May 1999 it may not have been due to unusual price relationships and/or performance requirements.

The hauling charges examined were the deductions for hauling shown on producer payrolls submitted to the Market Administrator for the Upper Midwest Order. Hauling charges do not necessarily reflect the actual cost of the hauling. In some cases, handlers and cooperatives may have subsidized milk haulers and absorbed additional hauling costs as operating expenses.

Since 1979, hauling charges have been examined for May of each year to maintain consistency. In this paper, statements about the hauling charge for a particular year refer to the average hauling charge for May of that year. In addition, hauling charges referred to are on a per hundredweight basis, and all averages are weighted averages.

**II. AVERAGE MILK HAULING CHARGES - FOR THE MILK PROCUREMENT AREA AND BY STATE**

The average hauling charge for the market in 1999 was 20.8¢, 3.2¢ above the 17.6¢ average recorded for 1998 and 3.1¢ above the average for 1997. (See Table 1.)

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**Table 1****Average Hauling Charge, by State and for the Market  
For May of Selected Years**

<u>State</u>	<u>Average Hauling Charge</u>										
	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>
	------(Cents Per Cwt.)-----										
IA	28.9	24.1	26.8	23.4	23.5	29.9	30.4	23.9	20.7	20.4	19.4
MN	25.6	29.0	30.5	30.9	30.6	30.4	28.8	28.1	27.2	26.7	26.0
ND	55.8	64.0	66.4	68.2	69.2	69.9	67.2	64.1	61.0	57.7	56.8
SD	39.0	38.9	41.0	46.0	47.0	41.8	40.2	39.0	35.2	34.2	33.2
WI <sup>3</sup>	21.8	24.3	26.9	26.4	24.9	24.9	24.0	22.8	21.2	20.1	17.1
Market Average	25.0	28.2	30.4	30.5	29.9	29.9	28.8	27.7	26.6	25.7	24.6
	------(Cents Per Cwt.)-----										
	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	
IA	21.2	21.1	24.4	23.4	19.8	16.5	15.7	11.6	20.8	19.6	
MN <sup>4</sup>	27.5	26.7	24.1	22.7	22.9	21.8	19.4	18.6	18.5	21.3	
ND	56.5	56.2	49.7	49.3	49.3	47.9	49.4	53.3	47.9	55.5	
SD	32.7	32.9	30.9	30.9	33.4	32.3	29.2	33.9	33.5	42.7	
WI <sup>3</sup>	21.5	13.5	13.9	12.5	11.6	12.0	11.8	11.5	11.5	15.3	
Market Average	28.3	26.4	26.4	21.4	21.1	20.1	18.5	17.7	17.6	20.8	

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<sup>3</sup> For 1984-1989, includes data for Gogebic County, Michigan.

<sup>4</sup> For 1993, includes data for Chaves and Roosevelt Counties, New Mexico. For 1996 includes data for Boyd and Keya Paha Counties, Nebraska.

In 1999, the Minnesota statewide average of 21.3¢ was 0.5¢ above the market average, while Wisconsin had the lowest state average at 15.3¢, 5.5¢ below the market average. These two states combined supplied 94% of producer milk on the market in May 1999, with Minnesota accounting for about 63% of producer milk and Wisconsin 31%. Hauling charges averaged 19.6¢ in Iowa, 42.7¢ in South Dakota, and 55.5¢ in North Dakota. These three states, combined, supplied the remaining 6% of producer milk on the order during the month.

The general pattern of hauling charges across the milk procurement area in 1999 was similar but less pronounced than has been observed in earlier years. Two maps of the procurement area for May 1999 are provided in the Appendix. Figure A-1 is a graphic representation of ranges of average county hauling charges, while Figure A-2 contains the state and county names for the procurement area for identification purposes. Table A-1 provides the average hauling charge by county for each of the years 1995 through 1999. Data are restricted for some counties.

In 1999, as in previous years, county hauling charges for the market were lowest in the eastern side of the procurement area and increased moving to the north and west across the procurement area. Average county hauling charges were as low as 2.1¢ in one Wisconsin county and reached a high of \$1.44 along the north-central to northwestern portion of the procurement area. However, county hauling charges on the outlying edges of the procurement area, particularly in Iowa and the Dakotas, should be viewed with some caution. Because these counties tend to have relatively few producers pooled on the order, the average county charge for producers on this order may be influenced significantly by institutional factors and not reflect actual hauling charges for milk in those counties.

Minnesota hauling charges by county were lowest in the central and southeastern parts of the state, as depicted in Figure A-1, while the northern third of the state generally had the highest hauling charges. In the Wisconsin portion of the milk procurement area, county hauling charges were generally below 20¢ (see Figure A-1) and were as low as 2.1¢ in Lincoln County. The southeastern portion of the procurement area in Wisconsin historically has had the lowest hauling charges in the market, while hauling charges were highest in the

northwestern counties. That pattern was less apparent in the county average hauling charges for 1999.

In North Dakota, county hauling charges were generally lowest in the southeastern part of the state. Charges increased moving west and north within the state. However, data for many of the North Dakota counties are restricted. Counties with the highest hauling charges in the state, and where data are not restricted, include Grand Forks, Logan, and McLean.

Hauling charges for the South Dakota counties from which milk was received in 1999 showed no definite pattern, largely because so few producers in each county marketed milk on the order.

### **III. AVERAGE HAULING CHARGES - 1999 COMPARED TO PREVIOUS YEARS**

For the market, the average hauling charge rose from 25.0¢ in 1979 to 30.5¢ in 1982. Since 1982, the average charge for the market steadily declined until 1989, rose nearly 4¢ in 1990 then steadily declined again until 1998. The average hauling charge was 20.8¢ in 1999, an increase of 3.2¢ from 1998, similar to the rise observed in 1990. Institutional factors, such as shifts of producers on and off of the market and changes in payment plans, may have contributed to some fluctuations in the overall trend. For example, a large group of producers with low average hauling charges left the market in late 1989, contributing to the increase in the average hauling charge for the market from 1989 to 1990, which went against the trend. In 1999, a handler organization initiated a new payment plan that included charging for the full cost of hauling milk. This change had an immediate impact on hauling charges across the market due to the competitive nature of milk procurement in the midwest.

Average hauling charges in individual states during the period showed trends fairly similar to the market. In Minnesota, the average charge rose from 25.6¢ in 1979 to 30.9¢ in 1982, and has generally declined in most years to 18.5¢ by 1998. The Minnesota average in 1999 was 21.3¢, the highest since 1995's average of 21.8¢. The Minnesota average was at

or within 1.8¢ above the market average in each of the years examined, except 1990 when it was 0.8¢ below the market average. In 1999, it was 0.5¢ above the average.

In Wisconsin, average hauling charges increased from 21.8¢ in 1979 to 26.9¢ in 1981. Charges remained constant or declined in most years to a low of 11.5¢ in 1997 and 1998. Wisconsin has been consistently below the market average and in several years, including 1999, was the lowest of the five states which supply milk to the order. In 1999, the average hauling charge in Wisconsin was 5.5¢ below the market average but has been as much as 12.9¢ below the market in 1991.

North Dakota hauling charges increased each year from 1979 to 1984. Most of the increase during the period took place between 1979 and 1980 when hauling charges increased from 55.8¢ to 64.0¢. Hauling charges peaked at 69.9¢ in 1984 before declining to 47.9¢ in 1995, and then rising to 55.5¢ in 1999. North Dakota consistently had the highest average hauling charge of any of the states supplying the order, and was between 26¢ and 40¢ over the market average for each of the 21 years examined.

In South Dakota, hauling charges were 39.0¢ in 1979, declined slightly in 1980, then rose to 47.0¢ to 1983. The average then gradually declined each year until 1993 when it was 30.9¢. Since 1994, the average charge has fluctuated and in 1999 was 42.7¢, the third highest average in the state during the examination period (1983--47.0; 1982--46.0). The hauling charge in South Dakota was consistently higher than the market, averaging about 12¢ over the market for the period examined.

Hauling charges in Iowa showed less of a pattern of change over time than in other states. Iowa's average charge ranged from 11.6¢ in 1997 to 30.4¢ in 1985. In Iowa, the average charge ranged from 7.1¢ below the market in 1982 and 1990 to 3.9¢ over the market in 1979. Year-to-year fluctuations in the average hauling charge for Iowa likely reflect institutional factors (changes in plants, producer groups, etc.) which occurred. For the 21-year period, Iowa averaged 1.6¢ below the market.

For the market, the change in hauling charges over time varied from county to county. The distribution of counties with high or low hauling charges across the market, however, remained relatively constant from 1979 to 1999.

For the most part, counties with relatively large numbers of producers had average hauling charges which were representative of their respective regions of the milk procurement area and which fairly closely followed the direction of change in hauling charges for their respective states. Wisconsin may be somewhat of an exception to this, as some counties in that state were much more affected than others by handler programs offering free hauling to dairy farmers during some years.

For certain counties with a relatively small number of producers, changes in average hauling charges from year-to-year have been affected by institutional factors to a greater degree than counties with a larger number of producers.

#### **IV. FACTORS CONTRIBUTING TO DIFFERENCES IN THE LEVEL OF HAULING CHARGES**

In 1999, average hauling charges by county ranged from 2.1¢ in central Wisconsin to \$1.44 in northern Minnesota. Differences in hauling charges across the milk procurement area in 1999, as well as in earlier years, likely relate to the relative distance from farm to plant and between individual farms. These hauling distances, on average, tend to be smaller in areas where there is a higher concentration of dairy farms and plants. This would tend to reduce the per hundredweight hauling costs in those areas, and explains in large part the significant differences in hauling charges when comparing Wisconsin to northwestern North Dakota and northern Minnesota.

Also, a higher concentration of dairy farms and milk plants in an area generally means more intense competition for milk supplies, resulting in greater subsidization of hauling by handlers. This appears to be particularly true in the Wisconsin portion of the procurement area, where a significant number of farms at times have had no deduction for hauling. As stated earlier, hauling charges referred to in this paper are the deductions from producer payrolls for hauling, and do not necessarily reflect the actual cost of hauling the milk.

Another factor affecting the level of hauling charges is volume. (See Section V.) Some handlers offer discounts (per cwt.) based on the volume of milk picked up at a producer's farm. Typically, discounts are in the form of a flat or maximum hauling charge regardless of quantity. While volume discounts help explain differences in the level of hauling charges between individual farms, they do not appear to significantly affect regional patterns of hauling charges.

## **V. MILK HAULING CHARGES BY SIZE RANGE OF PRODUCER DELIVERY**

Hauling charges in 1999 generally decreased as the size of delivery increased, as depicted in Table 2. The weighted average hauling charge for the producers delivering less than 20,000 pounds was 47.1¢, while the average hauling charge for producers delivering 250,000 pounds or more was 11.8¢. The average hauling charge for the 100,000-150,000 pound range, which encompasses the average delivery per producer in May 1999 (103,176 pounds), was 20.1¢, 0.7¢ less than the marketwide average hauling charge.

In each of the eight size ranges, the average hauling charge increased from the previous year, from 2.8¢ in the 70,000-100,000 pound range to as much as 96¢ in the less than 20,000 pound range. In 1999, 60.2% of producer milk was from producers who delivered less than 150,000 pounds to the market, down from 65.8% in 1998. The remaining 39.8% of producer milk in 1999 was marketed by producers who delivered 150,000 pounds or more to the market, up from 34.2% in 1998.

The inverse relationship found in 1999 between hauling charge and volume of delivery was also apparent in each of the earlier years. The trend is particularly due to programs implemented by some organizations which provide for lower hauling charges for larger volumes of milk marketed (i.e. quantity discounts and flat or maximum total hauling charges regardless of quantity). This marketwide trend of lower average hauling charges for larger size ranges was generally evident in each of the states which supply milk to the order.

The primary reason for the increase in the market average hauling charge from 1998 to 1999 was due to institutional factors. Shifting of producers between Federal order markets

and changes in payment plans contributed to the changes observed from the previous year. The initiation of a payment plan by a handler on the market reflecting the full cost of hauling milk had an immediate impact on hauling charges across the procurement area.

**Table 2**

**Average Hauling Charge by Size Range of Monthly Producer Deliveries by State and in Total, May 1999 with Comparisons to May 1998**

Size Range Equal to or more than ------(Pounds)----- Less than		Average Hauling Charge						
		May 1999					Market Average	
		IA	MN	ND	SD	WI	May 1999	May 1998
		------(Cents Per Cwt.)-----						
	20,000	69.3	52.1	103.8	47.8	36.9	47.1	37.5
20,000	30,000	50.6	40.4	73.4	59.6	32.1	38.2	34.4
30,000	50,000	38.6	35.6	80.9	59.6	26.4	34.2	30.3
50,000	70,000	29.8	30.9	82.9	57.8	21.3	29.3	25.6
70,000	100,000	22.7	25.8	73.8	60.0	17.1	24.5	21.7
100,000	150,000	13.8	20.6	56.1	38.9	15.3	20.1	16.5
150,000	250,000	12.5	16.3	68.7	41.7	12.5	17.2	12.4
250,000		5.7	12.3	17.8	33.2	6.2	11.8	6.2
Weighted Average		19.6	21.3	55.5	42.7	15.3	20.8	17.6

**VI. SUMMARY**

The May 1999 average hauling charge for the market of 20.8¢ was up from 17.6¢ for 1998, and 17.7¢ for 1997. Average hauling charges for the market peaked at 30.5¢ in 1982, and have generally trended downward since that time. Even though the 1998 average was the lowest since collection began in 1979, the 1999 average went up 3.2¢ representing the first year-to-year increase since 1990.

An increase in hauling charges from 1998 to 1999 was observed in each of the states in the milk procurement area, except for Iowa. For the five states which supplied milk to the order in May 1999, hauling charges averaged 15.3¢ in Wisconsin, 19.6¢ in Iowa, 21.3¢ in Minnesota, 42.7¢ in South Dakota, and 55.5¢ in North Dakota.

The pattern of hauling charges across the procurement area was similar to previous years, with the lowest hauling charges in areas with the heaviest concentration of dairy farms (central and west-central Wisconsin and central and southeastern Minnesota). The highest hauling charges tended to be in areas with a relatively low concentration of dairy farms. Charges generally increased moving west and north across the milk procurement area. The highest charges were found in the north-central to northwestern portions of the procurement area.

Hauling charges per farm, on a per hundredweight basis, generally declined as the volume of milk delivered increased, similar to the pattern of previous years.

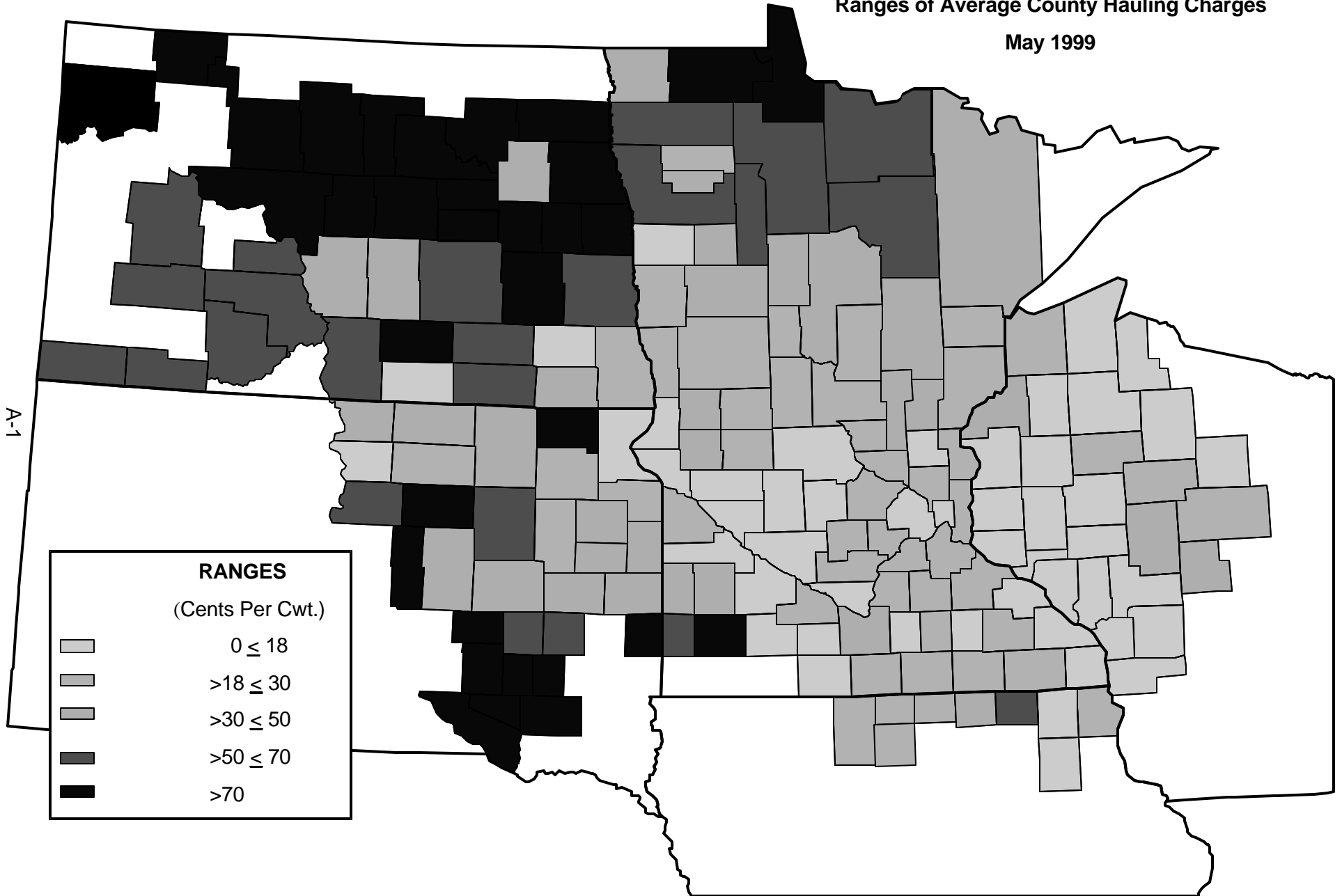
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- FIGURE A-2      UPPER MIDWEST ORDER MILK PROCUREMENT AREA, MAY 1999
- TABLE A-1        UPPER MIDWEST ORDER MILK PROCUREMENT AREA, AVERAGE HAULING  
CHARGE BY COUNTY, STATE, AND FOR THE MARKET, FOR MAY OF  
SELECTED YEARS

Figure A-1

Upper Midwest Order Milk Procurement Area  
Ranges of Average County Hauling Charges

May 1999





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**Table A-1****Upper Midwest Order Milk Procurement Area  
Average Hauling Charge by County, State, and for the Market  
for May of Selected Years**

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>Iowa</b>					
Allamakee	10.1	10.0	12.8	25.0	R
Benton		10.9			
Black Hawk	R	9.2		R	
Bremer		15.2		R	
Buchanan		20.9			
Butler		R		30.6	
Cedar		29.3			
Cerro Gordo				13.9	
Chickasaw		14.3		R	
Clayton	R	21.8			
Delaware		16.9			
Dickinson	R	29.0	R		
Dubuque		18.5			
Fayette	9.4	11.6	9.0	21.2	16.6
Floyd				24.8	
Franklin				48.5	
Grundy		R			
Hancock	R	R	R	R	R
Hardin				45.4	
Howard	27.6	24.5	25.3	27.8	56.1
Humboldt	R	R	R	R	
Jackson		10.0			
Jones		R			
Kossuth	28.0	29.3	26.3	21.7	20.4
Linn		17.8			
Lyon	38.6	38.9		25.6	
Mitchell	20.0	24.8	23.9	21.1	44.3
Osceola	29.2	30.1	26.0	19.0	
Plymouth		R	R		
Sioux	33.5	32.7	23.0	25.1	
Tama		R		R	
Winnebago	R	R	R	R	R
Winneshiek	10.7	10.0	9.2	17.7	15.9
Worth	R	R	R	R	R
<b>State Total</b>	<b>16.5</b>	<b>15.7</b>	<b>11.6</b>	<b>20.8</b>	<b>19.6</b>

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## Table A-1

### Upper Midwest Order Milk Procurement Area Average Hauling Charge by County, State, and for the Market for May of Selected Years

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>Minnesota</b>					
Aitkin	34.5	32.4	35.1	30.0	31.4
Anoka	23.6	16.3	22.5	R	R
Becker	24.9	23.0	22.1	21.8	30.2
Beltrami	34.4	36.1	39.0	36.1	57.6
Benton	20.5	15.6	13.4	17.9	19.9
Big Stone	28.9	18.6	31.0	R	15.1
Blue Earth	25.3	26.2	27.3	33.7	32.4
Brown	25.4	20.3	20.2	21.9	19.1
Carlton	26.9	25.3	22.4	22.6	19.8
Carver	26.8	19.1	18.0	18.5	21.0
Cass	26.1	24.6	22.5	19.7	32.5
Chippewa	18.5	17.1	16.0	14.1	13.8
Chisago	20.1	20.2	20.5	17.9	29.2
Clay	22.5	21.0	21.6	19.3	26.3
Clearwater	36.9	36.6	36.4	35.2	52.7
Cottonwood	25.2	18.1	21.6	21.3	11.7
Crow Wing	21.0	17.8	16.2	18.6	18.3
Dakota	28.9	24.5	25.9	26.9	26.1
Dodge	16.0	16.3	15.0	11.9	13.3
Douglas	21.1	20.4	19.4	20.5	21.4
Faribault	16.0	15.2	17.6	11.7	23.1
Fillmore	14.4	12.5	12.1	16.2	21.2
Freeborn	21.2	18.6	20.5	20.4	18.3
Goodhue	21.4	18.4	18.6	18.1	21.0
Grant	25.6	23.7	24.4	21.8	35.8
Hennepin	23.3	20.6	20.4	20.2	14.2
Houston	13.0	14.6	13.5	14.8	15.0
Hubbard	27.1	27.7	24.7	21.6	48.4
Isanti	20.0	18.6	13.6	11.0	9.4
Itasca	45.6	46.2	45.9	41.3	63.4
Jackson	46.7	35.4	49.0	47.7	
Kanabec	21.3	22.8	20.4	18.9	33.6
Kandiyohi	20.2	18.9	18.8	17.6	17.5
Kittson	47.1	46.2	50.2	41.2	50.0
Koochiching	42.9	60.2	64.8	41.7	65.4

Continued on next page.

## Table A-1

### Upper Midwest Order Milk Procurement Area Average Hauling Charge by County, State, and for the Market for May of Selected Years

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>Minnesota</b> (continued)					
Lac qui Parle	25.9	25.1	28.7	21.5	24.5
Lake of the Woods	53.9	53.2	52.9	51.6	144.4
Le Sueur	26.9	18.2	18.6	21.7	22.3
Lincoln	34.0	26.7	33.5	36.3	34.0
Lyon	31.4	30.2	37.2	35.9	30.9
Mc Leod	24.6	20.1	20.2	20.1	19.6
Mahnomen	34.1	34.7	34.4	32.0	30.1
Marshall	45.7	44.5	50.1	47.0	67.9
Martin	27.5	26.1	26.8	16.5	15.8
Meeker	21.1	18.1	16.9	14.0	12.6
Mille Lacs	23.6	22.3	21.8	21.4	34.5
Morrison	21.0	18.6	17.9	19.2	20.9
Mower	22.1	23.5	22.5	19.6	30.0
Murray	32.7	22.9	34.0	R	105.3
Nicollet	32.6	17.0	17.0	17.1	16.2
Nobles	37.3	28.5	R	27.1	
Norman	34.7	36.8	37.0	22.9	17.3
Olmsted	18.4	17.8	16.3	17.0	19.7
Otter Tail	21.0	20.3	19.8	19.1	23.0
Pennington	41.4	41.7	38.4	25.8	28.9
Pine	22.1	19.5	19.8	19.1	29.4
Pipestone	37.5	35.9	33.1	32.7	62.3
Polk	34.7	34.4	33.8	32.9	55.3
Pope	19.9	19.3	18.6	19.0	19.1
Ramsey	R	R	R	R	R
Red Lake	28.7	26.4	27.6	26.6	30.7
Redwood	18.1	16.6	18.1	16.1	15.5
Renville	22.7	19.1	19.3	16.5	16.4
Rice	24.8	19.8	20.4	19.2	27.3
Rock	22.6	25.1	R	36.0	
Roseau	39.0	39.3	39.7	36.9	73.1
St. Louis	40.0	37.9	36.0	33.8	31.8
Scott	26.8	19.8	19.6	19.3	18.6
Sherburne	22.3	18.0	12.6	15.2	19.3
Sibley	27.4	18.2	17.5	15.1	18.7

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**Table A-1****Upper Midwest Order Milk Procurement Area  
Average Hauling Charge by County, State, and for the Market  
for May of Selected Years**

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>Minnesota</b> (continued)					
Stearns	16.9	15.4	15.0	15.1	16.4
Steele	20.8	19.8	18.8	17.6	19.2
Stevens	26.9	24.5	24.8	23.2	42.6
Swift	24.0	20.8	20.3	19.5	17.5
Todd	19.7	19.2	17.2	18.3	20.0
Traverse	R	R	R	R	R
Wabasha	19.7	17.9	15.7	15.9	16.4
Wadena	22.5	23.6	23.2	22.1	26.0
Waseca	18.9	18.5	19.9	22.1	18.0
Washington	25.8	25.6	24.9	26.0	24.1
Watonwan	27.5	21.2	21.5	17.1	16.6
Wilkin	22.4	18.2	19.1	19.1	22.4
Winona	14.8	15.2	12.4	12.5	14.3
Wright	26.4	19.5	18.2	17.5	19.3
Yellow Medicine	25.0	13.8	32.7	37.4	9.5
<b>State Total</b> <sup>1/</sup>	<b>21.8</b>	<b>19.4</b>	<b>18.6</b>	<b>18.5</b>	<b>21.3</b>
<b>North Dakota</b>					
Adams	61.2	R	R	R	R
Barnes	57.1	62.0	65.7	68.1	90.7
Benson	80.1	85.6	93.7	92.5	91.9
Bottineau	R	R	R		
Bowman	R	R	R	R	R
Burke	R	R	R	R	R
Burleigh	40.9	39.4	52.3	41.8	41.5
Cass	37.4	34.7	51.7	41.9	64.7
Dickey	43.4	42.6	44.8	49.3	55.1
Divide	R	R	R	R	
Dunn	64.9	55.4	67.0	67.0	64.1
Eddy	93.5	95.3	R	R	R
Emmons	40.4	44.3	49.0	51.4	56.0
Foster	R	R	R	R	R
Grand Forks	49.6	61.9	58.9	44.7	125.9

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## Table A-1

### Upper Midwest Order Milk Procurement Area Average Hauling Charge by County, State, and for the Market for May of Selected Years

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>North Dakota (continued)</b>					
Grant	68.9	62.2	R	R	67.8
Griggs	88.0	89.6	91.1	89.0	92.4
Hettinger	67.4	66.6	R		
Kidder	49.3	36.1	50.2	45.8	42.2
La Moure	41.0	43.7	44.1	47.0	68.2
Logan	47.9	58.2	58.6	31.5	94.8
Mc Henry	51.1	71.0	90.4	92.0	93.5
Mc Intosh	39.6	37.9	35.6	25.3	16.3
Mc Lean	74.5	80.1	95.0	R	93.6
Mercer	R				
Morton	64.1	61.6	66.7	65.5	65.4
Nelson	36.3	70.2	67.8	R	R
Oliver	65.0	56.4	67.0	66.3	66.3
Pembina	R				
Pierce	77.6	84.5	87.7	87.4	86.2
Ramsey	43.1	87.0	R	R	R
Ransom	17.5	20.7	18.6	16.1	11.5
Richland	30.4	23.5	50.7	33.0	26.3
Rolette	R	R	R	R	
Sargent	30.0	29.3	33.2	R	R
Sheridan	75.0	74.0	R	R	R
Stark	53.8	50.3	62.0	58.6	58.8
Steele	46.3	42.2	R	R	R
Stutsman	48.7	50.9	50.7	48.2	55.7
Trail	R	R	R	R	R
Walsh	56.7	58.9	55.6	R	R
Ward	85.1	81.8	91.7	90.2	88.6
Wells	69.4	81.4	79.3	R	81.1
Williams	R	R	R	R	R
<b>State Total</b>	<b>47.9</b>	<b>49.4</b>	<b>53.3</b>	<b>47.9</b>	<b>55.5</b>

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## Table A-1

### Upper Midwest Order Milk Procurement Area Average Hauling Charge by County, State, and for the Market for May of Selected Years

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>South Dakota</b>					
Aurora		34.0	R	R	R
Beadle	37.2	22.6	0.0	26.5	41.5
Bon Homme		R			
Brookings	33.8	32.6	32.6	38.1	36.0
Brown	35.1	29.7	45.2	44.9	45.1
Brule		21.2			
Campbell	29.6	32.2	34.9	31.7	R
Charles Mix		14.2	R	R	R
Clark	31.3	33.4			29.8
Codington	25.1	21.0	25.3	24.5	32.8
Corson	R	R	46.4	41.7	
Davison		20.2	66.5	66.1	111.4
Day	34.3	33.8	36.8	34.0	24.5
Deuel	19.0	14.2	56.0	52.8	38.9
Dewey	R	R	55.0	R	
Douglas		27.9	34.2	36.1	88.2
Edmunds	35.6	32.0	31.9	22.9	25.5
Faulk	38.6	30.4	45.5	40.1	75.3
Grant	32.0	31.4			26.4
Gregory		59.1			
Hamlin	32.1	31.6	32.9	31.5	38.2
Hand	28.0	35.5	R	R	47.1
Hanson		30.8	55.2	52.9	83.4
Hutchinson		20.4	37.0	37.5	84.6
Hyde	R	R	R	R	R
Jerauld	R	50.9	R	R	R
Kingsbury	43.5	37.3	45.8	45.5	44.2
Lake	36.0	35.6		R	
Lincoln		46.2		R	
Lyman		R			
Mc Cook	R	24.9	43.2		
Mc Pherson	45.7	39.9	46.0	49.2	33.9
Marshall	R	R	R	R	R
Miner	45.1	43.9	45.1	43.1	64.9
Minnehaha	32.1	35.9	24.8	28.7	

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**Table A-1****Upper Midwest Order Milk Procurement Area  
Average Hauling Charge by County, State, and for the Market  
for May of Selected Years**

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>South Dakota</b> (continued)					
Moody	34.5	34.2	R	44.5	R
Perkins	R				
Potter	31.4	32.8	34.2	31.9	63.8
Roberts	29.1	24.3	R	15.9	13.0
Sanborn	21.3	24.4	26.5	R	56.3
Spink	29.7	27.9	R	R	67.8
Tripp		60.1			
Turner	24.2	30.8	38.9	44.7	
Union		R	R		
Walworth	23.2	22.1	21.6	18.8	12.5
Yankton		45.4			
<b>State Total</b>	<b>32.3</b>	<b>29.2</b>	<b>33.9</b>	<b>33.5</b>	<b>42.7</b>
<b>Wisconsin</b>					
Ashland	19.9	20.3	18.5	16.0	11.7
Barron	14.4	13.7	13.1	12.9	12.2
Bayfield	19.7	22.0	19.5	17.5	16.9
Buffalo	9.7	10.1	9.9	10.5	16.3
Burnett	18.4	16.1	18.4	27.9	34.7
Chippewa	12.5	12.2	12.0	11.3	13.5
Clark	8.4	10.6	10.3	9.8	32.5
Crawford	R	12.9			
Douglas	22.2	21.1	21.3	20.2	19.4
Dunn	11.0	9.9	9.9	10.5	9.9
Eau Claire	13.3	12.1	12.6	13.8	14.9
Grant	6.9	9.5			
Jackson	9.9	10.9	9.9	10.7	10.3
La Crosse	12.0	11.1	10.3	11.3	10.9
Lincoln				3.6	2.1
Marathon	6.9	8.9	8.3	7.1	18.5
Monroe	11.1	11.3	12.1	11.6	11.6
Pepin	12.6	11.9	11.8	13.8	11.4
Pierce	16.7	15.8	16.0	15.5	15.7
Polk	12.0	12.1	11.6	12.1	14.2

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## Table A-1

### Upper Midwest Order Milk Procurement Area Average Hauling Charge by County, State, and for the Market for May of Selected Years

	Average Hauling Charge				
	1995	1996	1997	1998	1999
	----- (Cents Per Cwt.) -----				
<b>Wisconsin</b> (continued)					
Price	R	R		14.1	14.8
Rusk	14.5	11.8	11.6	11.1	18.2
St. Croix	10.6	10.6	10.6	11.0	12.9
Sawyer	16.8	11.0	9.7	9.3	9.2
Taylor	12.0	12.8	11.4	11.7	19.9
Trempealeau	11.1	10.5	10.0	11.0	11.0
Vernon	17.3	14.9	15.0	14.2	13.7
Washburn	12.4	11.8	11.1	12.5	11.9
Wood	8.4	10.8	10.6	10.4	31.3
<b>State Total</b>	<b>12.0</b>	<b>11.8</b>	<b>11.5</b>	<b>11.5</b>	<b>15.3</b>
<b>Market Total</b>	<b>20.1</b>	<b>18.5</b>	<b>17.7</b>	<b>17.6</b>	<b>20.8</b>

1/ Nebraska data are included in the Minnesota state total for 1996.

R = Restricted data. Counties with fewer than 3 producers delivering to the market.