

March 1998

DAIRY INDUSTRY

Information on Marketing Channels and Prices for Fluid Milk



**Resources, Community, and
Economic Development Division**

B-279068

March 16, 1998

The Honorable James M. Jeffords
The Honorable Patrick J. Leahy
United States Senate

About 6 billion gallons of the approximately 18 billion gallons of milk produced by U.S. dairy farms each year is processed into fluid drinking milk (fluid milk). Fluid milk moves from the farm to the retail store via a variety of pathways, and a number of entities are involved in its processing and/or marketing. These entities include dairy cooperative organizations, retail food chains that have their own dairy-processing operations, firms with multiple bottling plants, and firms with a single bottling plant.

In August 1997, you requested that we examine certain aspects of milk marketing and pricing in the United States. This report (1) provides information on the entities that handle fluid milk from the time it leaves the farm to the time it is sold to the consumer, including regional variations, and (2) updates our August 1991 report on prices for dairy and other food products at various market levels nationally and in certain urban markets across the country.¹ Specifically, this report provides updated information on (1) the Bureau of Labor Statistics' price indexes at farm, processor, and retail levels for milk, processed dairy products, and cheese for December 1990 through September 1997, (2) the Agricultural Marketing Service's data for dairy cooperatives' announced Class I prices and retail milk prices for 28 cities for January 1991 through September 1997, and (3) the results of the Economic Research Service's study of changes in retail prices for dairy products and eight other food groups. A subsequent report will examine issues relating to the spread between farm- and retail-level prices for fluid milk, as well as the major factors believed to influence the price of milk as it moves from the farm to the consumer.

In summary, we found the following:

- The majority of the milk used to produce fluid milk in the United States passes from the farm to dairy cooperatives. However, most of the milk for fluid use is not processed by dairy cooperatives but is sold to retail food chains, companies that own multiple bottling plants, and independent bottlers that process it into fluid milk for sale to consumers. Each entity

¹Federal Dairy Programs: Information on Farm and Retail Milk Prices (GAO/RCED-91-187FS, Aug. 28, 1991).

that is involved in the processing and marketing of fluid milk adds value to the product and receives a portion of the spread between the farm and retail fluid milk prices. Consequently, the number and types of entities that make up a particular pathway and their related market share may have a significant effect on the amount of the farm-to-retail price spread that can be attributed to any one entity or group of entities. We found that these factors differ in each of the seven milk-producing regions of the United States.

- In updating our 1991 report, we found that the Bureau of Labor Statistics' price indexes for all uses of milk (fluid and manufactured) and at all levels (farm, processor, and retail) rose overall from September 1991 through September 1997. The percent increases in the retail-level price indexes for whole milk, processed dairy products, and cheese (13.7, 13.4, and 10.1 percent, respectively) were substantially higher than the percent increases in the farm-level price indexes for milk used for fluid and manufactured products (1.6 and 1 percent, respectively) for this period of time. However, during this period of time, the farm-level price indexes were relatively more volatile than their retail-level counterparts. In addition, the Agricultural Marketing Service's data show that from 1991 through the first 9 months of 1997, the average difference (price spread) between the retail price and the announced cooperative price for a gallon of milk in 28 cities increased from \$1.12 to \$1.30, on the basis of nominal prices that have not been adjusted for inflation. (See fig. III.1.) (The percent increase in the price spread has been slightly more than the rate of inflation for this period, implying a slight increase in the inflation-adjusted price spread.) We also found that the average price spread varied significantly across the 28 cities during this period. For example, in 1997, the average price spread ranged from a high of \$1.97 per gallon in Seattle, Washington, to a low of \$0.51 in Cincinnati, Ohio. (See table III.1.) Finally, information from the Economic Research Service shows that from 1990 through 1996, all foods in the U.S. Department of Agriculture's (USDA) "market basket," including dairy products, experienced retail price increases. While the retail prices for dairy products increased by 12.3 percent during this period, the retail price increase for other products in this market basket ranged from 8.8 to 39.3 percent. (See table IV.1.) (During this period, the increase in the general price level for the whole economy was 17.7 percent.) Also, in 1996, the farm-to-retail price spread for dairy products increased by 2.3 percent—a level smaller than the 3.2-percent increase in the price spread for all the foods in the market basket. (See table IV.2.)

This report is divided into four appendixes. Appendix I describes the way that milk moves from the farm to the consumer in different regions, differences in the number of processing plants and their sizes, and the relative market shares of the fluid milk processors/distributors in each region. Appendix II reports changes to farm-, processor-, and retail-level price indexes for milk, processed dairy products, and cheese from December 1990 through September 1997. Appendix III presents information on announced cooperative and retail milk prices in 28 cities from January 1991 through September 1997. Appendix IV compares the changes in retail prices and the difference between farm and retail prices for dairy and eight other food products from 1991 through 1996.

Agency Comments

We discussed a draft of this report with the Deputy Administrator for Dairy Programs, Agricultural Marketing Service; the Chief of the Animal Products Branch, Commercial Agriculture Division, Economic Research Service; and six other officials from USDA. These officials generally agreed with the information provided in our report. The officials suggested that we recognize the rapid concentration (e.g., through mergers) that has occurred with both the cooperative and proprietary sides of the fluid milk-processing industry since the time the Agricultural Marketing Service collected data on the industry's structure. We have added this qualifying information to the scope and methodology section of the report. They also suggested minor technical revisions to our draft, and where appropriate, we have incorporated these revisions into the report. We also shared a draft copy of this report's appendix II with the Chief of the Food Section, Division of Consumer Prices and Price Indexes, at the Department of Labor's Bureau of Labor Statistics. This official agreed with our presentation of the Bureau's data but also suggested some minor technical revisions to the draft. Where appropriate, these revisions have also been incorporated into the report.

Scope and Methodology

To determine what entities are involved in the marketing of milk from the dairy farm to the consumer, we obtained information from recognized dairy authorities within USDA and academia. In addition, we relied extensively on data collected by USDA's Agricultural Marketing Service in October 1996 and reported in October 1997. However, during the past year, rapid concentration in the fluid milk-processing industry has occurred, including acquisitions and mergers by industry's major proprietary dairy firms and cooperatives. The information in our report

does not reflect these recent changes because little information is currently available on how this restructuring has affected the industry.

To update our 1991 report, we obtained price index information from the Department of Labor's Bureau of Labor Statistics, announced cooperative and retail price information from USDA's Agricultural Marketing Service, and additional information from the Economic Research Service. Although we ensured that the data we obtained were comparable to the data presented in our 1991 report, we did not verify the accuracy of the price information obtained from the agencies' databases. We conducted our review from August 1997 through January 1998 in accordance with generally accepted government auditing standards.

As arranged with your offices, unless you publicly announce its contents earlier, we will make no further distribution of this report until 30 days after the date of this letter. At that time, we will send copies to the Senate Committee on Agriculture, Nutrition, and Forestry; the House Committee on Agriculture; other appropriate congressional committees; interested Members of Congress; the Secretaries of Agriculture and Labor; the Director, Office of Management and Budget; and other interested parties. We will also make copies available to others upon request.

Please contact me at (202) 512-5138, should you or your staff have any questions. Major contributors to this report are listed in appendix V.

A handwritten signature in black ink, appearing to read "Robert A. Robinson". The signature is fluid and cursive, with the first name "Robert" being the most prominent.

Robert A. Robinson
Director, Food and
Agriculture Issues

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Abbreviations

AMS	Agricultural Marketing Service
BLS	Bureau of Labor Statistics
ERS	Economic Research Service
GAO	General Accounting Office
USDA	U.S. Department of Agriculture

The Paths That Fluid Milk Follows From the Farm to the Consumer

About 6 billion of the approximately 18 billion gallons of milk produced by U.S. dairy farms each year is processed into fluid drinking milk (fluid milk). Fluid milk moves from the farm to the retail store via a variety of pathways. The principal entities involved in processing and/or marketing fluid milk in the United States are dairy cooperative organizations, retail food chains that have their own dairy-processing operations, and proprietary firms with multiple bottling plants (multiple-plant bottlers) or a single bottling plant (single-plant bottlers). This appendix provides information on the most predominant pathways that milk follows from the farm to the consumer, including regional variations, and also provides information on the differences in the number of processing plants and their sizes and on the relative market shares of the fluid milk processors/distributors in each region.

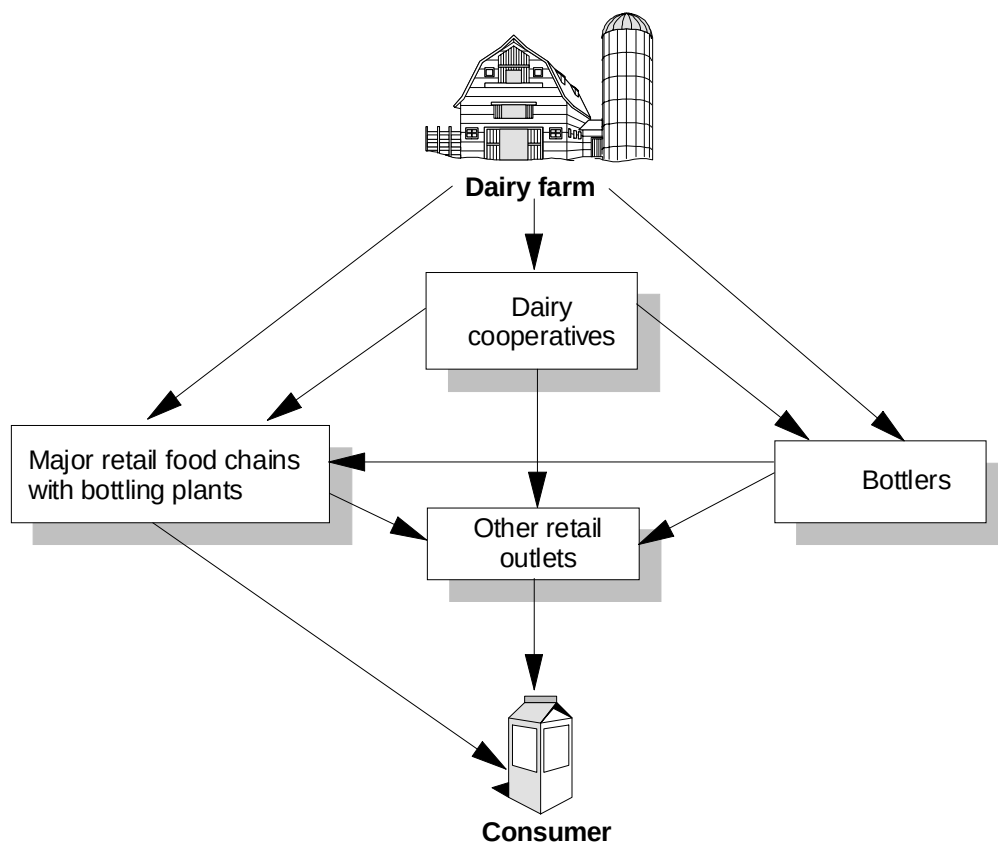
Predominant Milk-Marketing Pathways and Regional Variations

While some dairy farmers may sell unprocessed milk directly to processors or, in some instances, process fluid milk themselves for direct sale to consumers, the majority of all the milk produced in the United States is marketed by dairy cooperatives. These cooperatives (1) sell or arrange the sale of unprocessed milk to retail food chains, multiple-plant bottlers, and/or single-plant bottlers that process it into fluid milk and/or (2) process and distribute fluid milk to retail outlets for subsequent consumer sale.

Each entity that is involved in the processing and marketing of fluid milk adds value to the product and receives a portion of the spread between the farm and retail fluid milk prices. Consequently, the number and types of entities that make up a particular pathway and their related market share may have a significant effect on the amount of the farm and retail price spread that can be attributed to any one entity or group of entities. Figure I.1 shows some of the more predominant marketing routes for fluid milk in the United States.

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The Paths That Fluid Milk Follows From the
Farm to the Consumer

Figure I.1: Predominant Marketing Pathways for Milk From the Farm to the Consumer



Source: GAO's analysis of industry data and Agricultural Marketing Service federal order data for October 1996.

While dairy cooperatives handle the majority of all the unprocessed milk marketed in the United States, the entities that process, bottle, and sell the majority of the fluid milk to consumers in each region may vary. For example, while most of the milk produced in the North Atlantic Region flows from dairy farms to cooperatives, the majority is then resold to single-plant bottlers, which process, bottle, and distribute fluid milk to retailers. On the other hand, dairy cooperatives themselves process most of the milk in the West North Central Region and distribute fluid milk to retail outlets.

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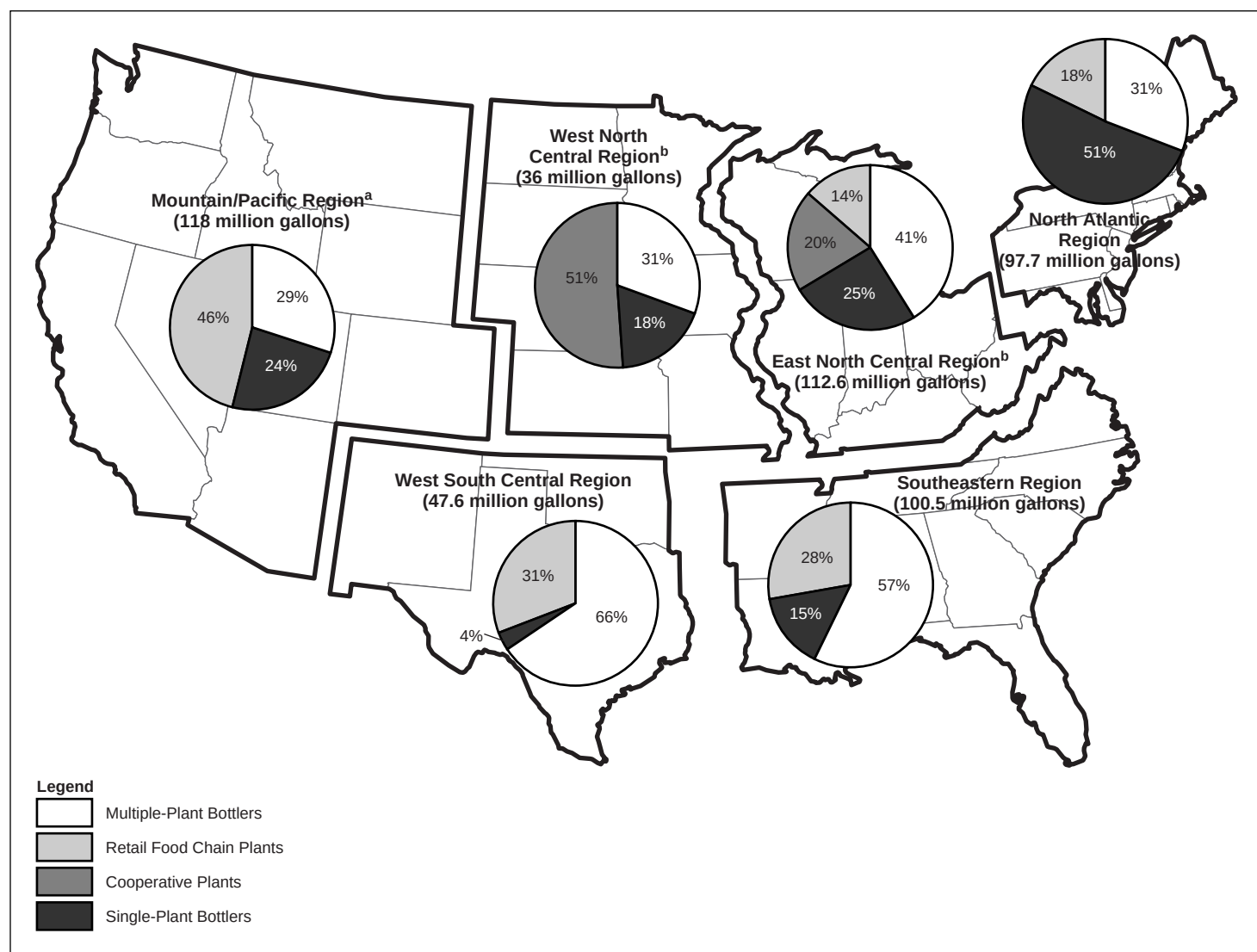
To determine regional variations in the pathways that milk follows from the farm to the consumer and the different entities involved in each pathway, we used the regions defined by the Agricultural Marketing Service (AMS) under the Federal Milk Marketing Order Program.¹ AMS groups fluid milk distribution areas under the federal milk marketing order system into seven regions. These regions are the North Atlantic, Southeastern, East North Central, West North Central, West South Central, Mountain, and Pacific regions. AMS does not include California in its Pacific region because California has its own state milk marketing program and is not regulated under the federal program. However, we have included California milk production totals in figure I.2 because it is the largest dairy producing state in the country. In 1996, the total milk production for California was about 3 billion gallons. According to a California state dairy official, about 723 million gallons, or 24 percent, of the state's total milk production was processed into fluid milk. Figure I.2 shows the seven regions and the fluid milk distribution totals and market share by plant ownership type for each region.²

¹Federal milk marketing orders establish minimum prices for unprocessed milk. Handlers regulated under the federal milk marketing orders, process about 75 percent of the total fluid milk products produced in the United States.

²In its 1996 report, AMS grouped the Mountain and Pacific regions together in order to overcome restrictions placed on distributing plants' data.

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Figure I.2: Fluid Milk Distribution and Market Share by Plant Ownership Type, October 1996



(Figure notes on next page)

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Notes: Federal milk marketing orders do not conform geographically to state boundaries. To help display the data in a more meaningful manner, we chose to use state boundaries for the various regions. As a result, some regions may include data from a neighboring region. Also, AMS' data do not include milk distribution information for areas not regulated under the federal orders or those under state orders.

Plants operated under joint arrangements (e.g., cooperatives with other cooperatives or proprietary firms) were included in the category represented by the majority owner. In those instances where the joint ownership was split equally, the plant was categorized by the owner with daily plant management responsibility.

For some regions, the total percentages may add up to greater than 100 percent because of rounding.

^aWe have modified the AMS data shown in the map to include milk distribution data for California even though California is not under a federal order. We chose to include California because it is the largest dairy-producing state in the nation.

^bCooperative plant data for all regions except the East North Central and West North Central are restricted due to data confidentiality. Cooperative plant data have been included in the Multiple Plant firm category for the regions with data restrictions.

Source: Illustration in AMS study entitled Market Structure of the United States Dairy Industry, a Federal Milk Marketing Order Study, Market Administrator's Office, AMS (Tulsa, Oklahoma: Oct. 1997) as modified by GAO.

Information regarding predominant regional market pathways, as well as the relative market shares of processing/distributing entities in each region, is presented below. We summarized and/or extracted much of this information from a recent study of the U.S. dairy industry market structure performed by AMS' Market Administrator's Office in Tulsa, Oklahoma.³

North Atlantic Region

Most of the unprocessed milk produced in the North Atlantic Region passes from the dairy farm to the dairy cooperatives. These cooperatives sell or arrange for the sale of milk to single- and multiple-plant bottlers. The bottlers process the milk and sell the bottled product to retail outlets which, in turn, sell the milk to consumers. Some milk is also processed by the manufacturing/processing cooperatives themselves and is sold by them to retail food chains and other retail outlets for subsequent sale to consumers.

In another marketing pathway for unprocessed milk, dairy farmers in the region "sidestep" dairy cooperatives and sell their milk directly to single- and multiple-plant bottlers, which process and sell fluid milk to retail outlets. Lesser amounts of unprocessed milk also pass from the farm to

³Market Structure of the United States Dairy Industry, a Federal Milk Marketing Order Study, Market Administrator's Office, AMS (Tulsa, Oklahoma: Oct. 1997).

cooperatives and then to plants owned by retail food chains and/or pass directly from the farm to plants owned by retail food chains. The retail food chain plants process and bottle the milk and sell it in their stores. A small number of dairy farms in the region process and bottle their own fluid milk, which they sell directly to consumers.

According to AMS, small single-plant bottlers are the most prevalent type of dairy-processing plant in the North Atlantic Region, followed by larger multiple-plant bottlers, retail food chain plants, and cooperatives. Although single-plant bottlers still process and distribute most of the fluid milk produced in the region, from October 1993 through October 1996, the number of single-plant bottlers decreased from 58 to 46. Although the average size of the remaining single-plant bottlers increased by almost 9 percent, their fluid milk market share fell from about 60 to approximately 51 percent for the period. The number of multiple-plant bottlers in the region increased from 10 to 13 over the same period, and the market share of multiple-plant bottlers and cooperatives combined grew from about 23 to approximately 31 percent of the regional distribution of fluid milk.⁴ The average plant size for this category also grew by over 6 percent for the period. Retail food chain plants are third in the region's market share. The number of retail food chain plants decreased from 12 to 11 from October 1993 through October 1996. The average size of plants for this category increased by almost 19 percent, and their regional market share increased from about 17 to about 18 percent.

Southeastern Region

As in the North Atlantic Region, the majority of unprocessed milk produced in the Southeastern Region moves from the farm to dairy cooperatives. The cooperatives, in turn, sell this milk to multiple-plant bottlers and retail food chain plants, which process it into fluid milk for sale to consumers. Some fluid milk is also processed by the cooperatives themselves and sold to retail food chains and other retail outlets, who then sell the product to consumers. Alternatively, some unprocessed milk passes directly from the farm to multiple- and single-plant bottlers that process and sell fluid milk to retail outlets for subsequent sale. Lesser amounts of milk also pass from the farm to plants owned by retail food chains that process and bottle fluid milk to sell in their stores. A small number of dairy farm operations in the region also process and bottle their own fluid milk for direct sale to consumers.

⁴AMS reports that because there is only one bottling cooperative in this region, the data for the cooperative and multiple-plant bottler classifications were combined in order to protect the data's confidentiality.

AMS reported that plants in the multiple-plant bottlers and cooperative categories are the most prevalent types in the Southeastern Region, followed by generally larger retail food chain plants.⁵ Single-plant bottlers are the smallest in size and numbers in the region. Multiple-plant bottlers and cooperatives process most of the fluid milk bottled and distributed in the region. From October 1993 through October 1996, the average plant's size in this category increased by about 18 percent, although the number of plants decreased from 45 to 42. The market share for multiple-plant bottlers and cooperatives in the region also increased from about 54 to more than 57 percent for this period. The market share for retail food chain plants grew from about 25 to almost 28 percent from October 1993 through October 1996, as did the number of plants—from 15 to 18. The average size of plants for this category decreased by about 5 percent over the period. From October 1993 through October 1996, the average size of single-plant bottlers in the region grew by almost 60 percent, and the average market share for this category declined from about 21 to about 15 percent because the number of plants decreased from 29 to 13 over the period.

East North Central Region

The majority of unprocessed milk produced in the East North Central Region moves from the farm to dairy cooperatives. The cooperatives sell this milk to multiple- and single-plant bottlers, which process and distribute fluid milk to retail outlets for sale to consumers. The cooperatives also process and bottle fluid milk themselves and sell it to retail outlets, which in turn, sell it to consumers. Dairy farms also sell unprocessed milk directly to multiple- and single-plant bottlers. In parts of this region, smaller amounts of milk also pass (1) from the farm to cooperatives, to processing plants owned by retail food chains and (2) from the farm directly to plants owned by retail food chains. The retail food chains then process and bottle fluid milk for sale in their stores. A small number of dairy farm operations in the region also process and bottle their own fluid milk and distribute it to retail outlets.

AMS' data show that multiple-plant bottlers have the largest average size of any plants in the East North Central Region and process and distribute most of the fluid milk produced there. From October 1993 through October 1996, the average plant's size for this category grew by over 5 percent, and the market share increased from about 40 to about 41 percent. Single-plant bottlers are the smallest in average plant size in

⁵Cooperative plants' data for the Southeastern Region were combined with data for multiple plant bottlers in order to protect the data's confidentiality.

the region but are the most prevalent type of plant and have the next highest regional market share. From October 1993 through October 1996, the average size of single-plant bottlers in the region grew by over 19 percent, but their market share dropped from almost 29 to about 25 percent owing to a decrease in plant numbers—from 50 to 38 over the period. Cooperatives are third in regional market share and have the second largest average plant size in the region. From October 1993 through October 1996, the average size of cooperative plants increased by over 11 percent and their market share grew from about 17 to 20 percent. The number of cooperative plants also increased from 13 to 14 over the period. Retail food chain plants are the third largest in average size in the region, increasing by about 7 percent over the period. From October 1993 through October 1996, the number of retail food chain plants in the region decreased from 11 to 10, and their market share dropped from slightly over to just under 14 percent.

West North Central Region

Most of the unprocessed milk produced in the West North Central Region moves from the farm to dairy cooperatives. Dairy cooperatives sell this milk to multiple- and single-plant bottlers, which process and distribute fluid milk to retail outlets for subsequent consumer sale. In addition, farms sell unprocessed milk directly to multiple- and single-plant bottlers, which in turn, process and sell fluid milk to retail outlets for consumer sale.

AMS' data show that cooperative plants are the most prevalent types of plant in the West North Central Region, have the second largest average plant size, and process and distribute most of the fluid milk bottled there. From October 1993 through October 1996, the number of cooperative plants in the region decreased from 14 to 13, but the average plant size increased by over 13 percent. The cooperative plant's market share has remained relatively steady at about 51 percent. Multiple- and single-plant bottlers in the region number six each. Multiple-plant bottlers are first in average regional plant size and second highest in regional market share, although their market share dropped from about 32 to about 31 percent from October 1993 through October 1996. Over the same period, the number of single-plant bottlers dropped from nine to six, but the average plant's size grew by almost 63 percent. The market share for single-plant bottlers in the region also increased slightly—from over 17 to just over 18 percent for the period. According to AMS, no retail food chain plants are in the region.

West South Central Region

Most unprocessed milk produced in the West South Central Region moves from dairy farms to dairy cooperatives. Dairy cooperatives sell this milk to multiple- and single-plant bottlers, which process fluid milk and sell it to retail outlets for subsequent consumer sale. The cooperatives themselves also process and distribute fluid milk to retail outlets (including retail food chains) for resale. Unprocessed milk also travels from the dairy farm, to dairy cooperatives, and then to plants owned by retail food chains, where it is processed into fluid milk, bottled, and sold to consumers. Finally, dairy farms sell unprocessed milk directly to plants owned by retail food chains. The retail food chain plants process and bottle the milk and sell it in their stores.

AMS' data show that multiple-plant bottlers and cooperatives combined are the most prevalent plant types in the West South Central Region,⁶ have the largest average size, and process and distribute most of the fluid milk marketed there. From October 1993 through October 1996, the number of cooperative plants in the region increased from 4 to 5, and the number of multiple-plant bottlers decreased from 15 to 11. The average plant's size for multiple-plant bottlers and cooperatives, combined, increased by over 27 percent, and their market share rose from about 63 to about 66 percent during the period. Retail food chains have the second highest number of plants in the region and are second in average regional plant size and market share. From October 1993 through October 1996, the number of these plants in the region decreased from nine to eight. Although the average plant's size increased by slightly over 5 percent, these plants' market share decreased from about 34 to about 31 percent for the period. Independent bottling plants are third in numbers and average plant size in the region. Although plant numbers remained unchanged at four, from October 1993 through October 1996, there was a decrease of about 2 percent in the average plant's size, while these plants' regional market share remained relatively constant at about 4 percent.

**Mountain and Pacific
Regions**

For the Mountain and Pacific Regions,⁷ separate information is presented below for the dominant market routes followed by unprocessed and processed milk on its way from the farm to the consumer. However,

⁶According to AMS, the cooperative plants in this region are all under one joint ownership entity; therefore, cooperative data were combined with data for multiple-plant bottlers in order to protect the data's confidentiality.

⁷This section does not include data for California because the state does not participate in the Federal Milk Marketing Order Program and is not included by AMS in the Mountain and Pacific Regions. However, California state officials told us that 60 percent of the 723 million gallons of milk (434 million gallons) is processed into fluid milk by retail food chains and is sold at their own retail outlets.

combined information is presented on the market shares, number of plants, and size of plants for the processing/distributing plant types within these regions because the AMS study,⁸ which was our primary source for these data, combined this information in order to protect the data's confidentiality.

In the Mountain Region, most unprocessed milk proceeds from the dairy farm, to cooperatives, to processing plants owned by retail food chains. The processed and bottled fluid milk is then sold by the retail food chains in their stores. Cooperatives also sell unprocessed milk to multiple- and single-plant bottlers, which then process the milk and sell fluid milk to retail outlets for subsequent sale. Finally, milk moves from the farm directly to multiple- and single-plant bottlers, and from there, it is sold as fluid milk to retail outlets that sell the product to consumers.

In the Pacific Region, most unprocessed milk goes from the farm to dairy cooperatives, which sell it to retail food chains. The retail food chains then process the milk and sell it to consumers. In addition, some unprocessed milk travels from the farm to cooperatives and is sold to multiple- and single-plant bottlers, which process and sell fluid milk to retail outlets for consumer sale. Some dairy farms also sell unprocessed milk directly to multiple- and single-plant bottlers, which process and sell fluid milk to retail outlets for subsequent consumer sale. Finally, some dairy farm operations process and bottle fluid milk themselves for direct sale to consumers.

According to AMS' data, multiple-plant bottlers and cooperatives, combined, have the second largest number of plants in the combined Mountain/Pacific Region,⁹ are second largest in average plant size, but process and distribute most of the fluid milk produced there. From October 1993 through October 1996, the number of multiple-plant bottlers in the combined regions decreased from 13 to 12, and the number of cooperative plants decreased from 7 to 6. The average plant's size for multiple-plant bottlers and cooperatives, combined, increased by over 21 percent, and their combined market share rose from about 36 to about 38 percent during the period. Single-plant bottlers are the most prevalent type of plant in the combined Mountain/Pacific Region, are third in average plant size, and have the second largest regional market share.

⁸Market Structure of the United States Dairy Industry, a Federal Milk Marketing Order Study, Market Administrator's Office, AMS (Tulsa, Oklahoma: Oct. 1997).

⁹AMS states that the cooperatives' data in this combined region include two ownership entities and that multiple plant bottlers and cooperatives' data were combined to protect the data's confidentiality.

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From October 1993 through October 1996, the number of single-plant bottlers in the combined region decreased from 31 to 28. Although the average plant's size increased by about 3 percent, the market share for single-plant bottlers decreased from about 36 to about 32 percent during the period. Retail food chain plants in the combined region rank third in plant numbers, first in average plant size, and third in market share. From October 1993 through October 1996, the number of retail food chain plants held constant at 11. The average plant's size increased by almost 11 percent, and the market share in the combined region rose from about 29 to almost 31 percent.

Changes in the Bureau of Labor Statistics' Price Indexes for Selected Dairy Products, December 1990 Through September 1997

This appendix discusses the changes in the Bureau of Labor Statistics' (BLS) price indexes for milk, processed dairy products, and cheese at the farm, dairy processor, and retail levels. It presents information on the changes in the indexes on a quarterly basis from December 1990 through September 1997.

BLS collects price data for milk, processed dairy products, and cheese as part of its regular programs to calculate the consumer price and producer price indexes. These data are collected through the systematic sampling of the prices paid by consumers for consumption items and the prices received by producers. The farm-level price indexes for fluid and manufacturing-use milk are based on a value of 100, which equaled the average prices of fluid and manufacturing-use milk in 1982.¹ The processor-level price index for fluid milk is based on a value of 100, which equaled the average price of this product in December 1982, and the processor-level price index for cheese is based on a value of 100, which equaled the average price of this product in June 1981. The retail-level price indexes for whole milk, processed dairy products, and cheese are based on a value of 100, which equaled the average of prices collected during the period 1982 through 1984.

The price indexes at all levels—farm, processor, and retail—and for all uses of milk generally rose from September 1991 through September 1997. From September 1991 through September 1997, the farm-level price indexes for fluid use and manufacturing use milk increased by 1.6 and 1 percent, respectively; the processor-level price indexes for fluid milk and cheese increased by 9 and 8.3 percent, respectively, and the unadjusted retail-level price indexes for whole milk, processed dairy products, and cheese increased by 13.7, 13.4, and 10.1 percent, respectively. While all the indexes were higher in September 1997 than in September 1991, they were substantially lower than the peaks reached in 1996. This recent decline was greatest at the farm level, where the price index for fluid-use milk declined from 120.1 in September 1996 to 95.7 in September 1997. The farm-level price index for milk used for manufacturing declined from 120.6 to 97.3 during the same period. Also, for the period September 1991 through September 1997, the retail-level price indexes for whole milk, processed dairy products, and cheese were substantially less volatile than the farm-level indexes for milk used for these products. Table II.1 presents BLS' data on price indexes at the farm, processor, and retail levels for

¹For the purpose of this report, the farm-level price index represents the price measures used by BLS for its crude materials index, which are derived from free on board plant-level prices.

Appendix II
Changes in the Bureau of Labor Statistics'
Price Indexes for Selected Dairy Products,
December 1990 Through September 1997

selected dairy products quarterly from December 1990 through September 1997.

Table II.1: Price Indexes of Selected Dairy Products, December 1990 Through September 1997

Year	Month	Farm level milk		Processor level		Retail level		
		Fluid use	Manufacturing	Fluid milk	Cheese	Whole milk	Processed products	Cheese
1990	December	86.7	81.6	119.0	106.1	126.0	128.4	132.7
1991	March	83.9	79.6	117.4	105.6	122.1	128.3	132.4
	June	85.5	83.9	116.8	107.0	121.5	127.3	131.1
	September	94.2	96.3	119.4	114.3	122.2	129.1	133.8
	December	100.4	96.4	124.2	115.1	125.5	130.2	135.1
1992	March	92.1	87.8	122.4	108.9	125.6	130.2	135.2
	June	98.4	98.3	122.0	115.7	125.2	130.3	134.9
	September	100.1	97.8	125.9	115.9	128.2	131.0	136.0
	December	93.1	90.0	124.2	111.1	127.8	130.4	135.4
1993	March	90.0	87.6	120.5	109.4	126.0	131.3	135.5
	June	97.1	95.3	124.8	116.3	128.5	131.1	136.3
	September	94.4	94.6	123.1	115.1	128.9	129.9	134.6
	December	99.2	98.1	126.6	115.9	130.6	129.8	134.6
1994	March	99.7	99.1	127.3	116.5	131.3	131.7	136.9
	June	95.0	88.5	129.4	111.3	132.5	131.7	136.0
	September	95.3	94.7	124.0	114.4	129.3	132.4	136.9
	December	94.2	90.3	127.6	112.0	131.1	131.8	136.0
1995	March	93.2	92.7	123.2	114.0	130.5	133.1	137.0
	June	90.4	88.9	123.0	112.3	130.6	132.9	136.9
	September	94.4	95.2	123.5	117.7	130.1	134.0	137.8
	December	101.9	101.9	128.6	121.3	133.7	136.2	139.0
1996	March	100.4	99.5	129.4	119.8	136.2	136.7	139.9
	June	108.5	108.1	133.0	124.0	139.5	139.5	141.6
	September	120.1	120.6	140.2	134.7	143.7	148.5	149.4
	December	103.6	92.8	142.9	118.7	148.3	147.9	150.1
1997	March	99.2	96.9	133.9	119.4	143.8	147.0	148.1
	June	91.7	85.6	132.6	114.7	141.6	145.2	147.1
	September	95.7(P)	97.3(P)	130.2(P)	123.8(P)	139.0	146.4	147.3

Legend

P = Preliminary data subject to revision

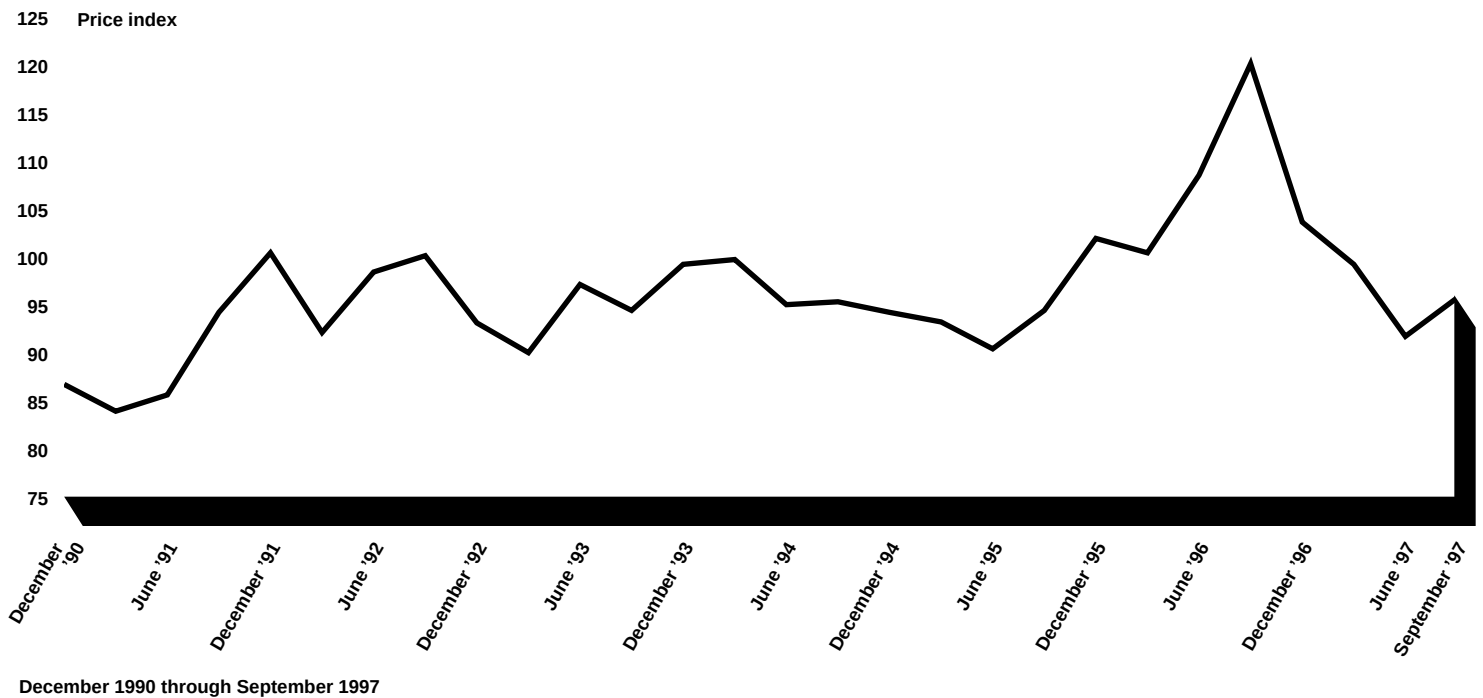
Note: Price indexes have not been seasonally adjusted.

Source: BLS' Consumer Price Index and Producer Price Index data.

Appendix II
Changes in the Bureau of Labor Statistics'
Price Indexes for Selected Dairy Products,
December 1990 Through September 1997

Figures II.1 through II.5 show the changes in the farm-level price index for fluid milk, the retail-level price index for whole milk, the farm-level price index for milk used for processed dairy products and cheese, the retail-level price index for processed dairy products, and the retail-level price index for cheese for the period December 1990 through September 1997.

Figure II.1: Trends in the Farm-Level Price Index for Fluid Milk, December 1990 Through September 1997

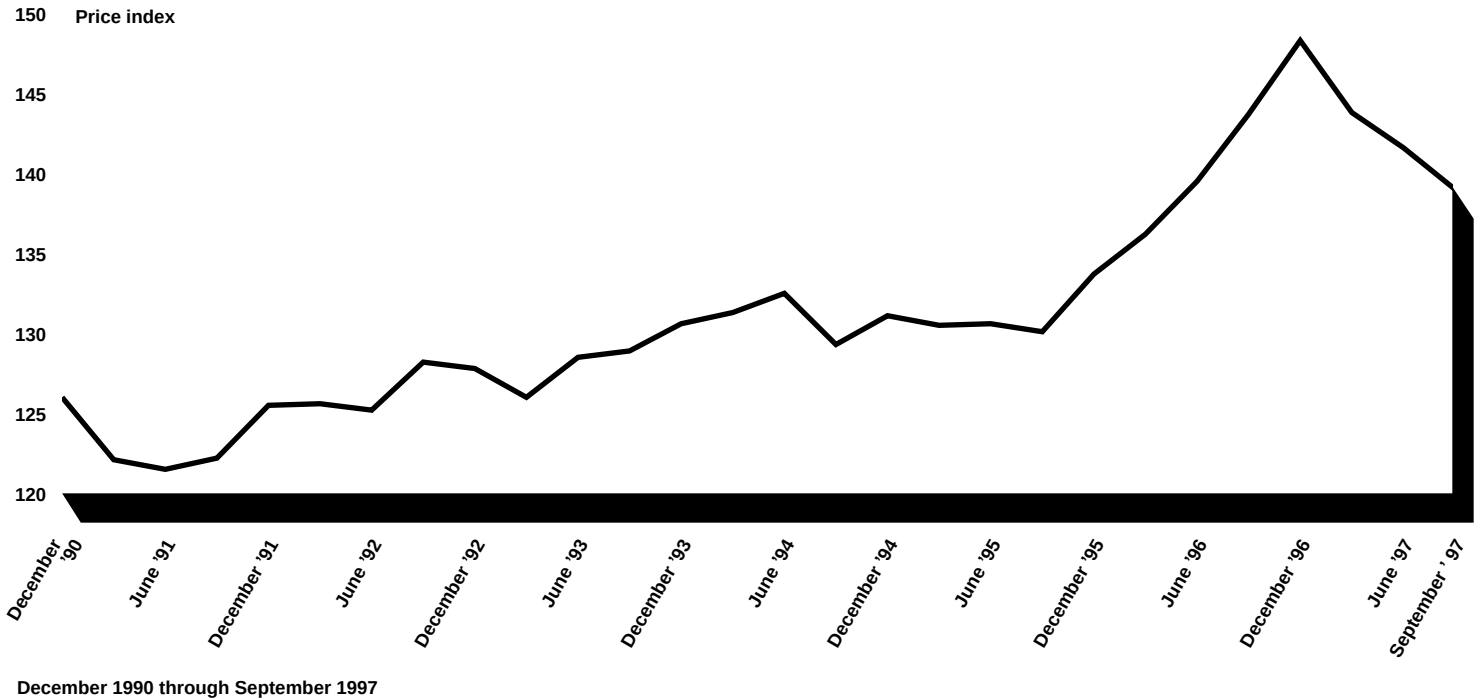


Note: Price indexes have not been seasonally adjusted.

Source: BLS.

Appendix II
Changes in the Bureau of Labor Statistics'
Price Indexes for Selected Dairy Products,
December 1990 Through September 1997

Figure II.2: Trends in the Retail-Level Price Index for Whole Milk, December 1990 Through September 1997

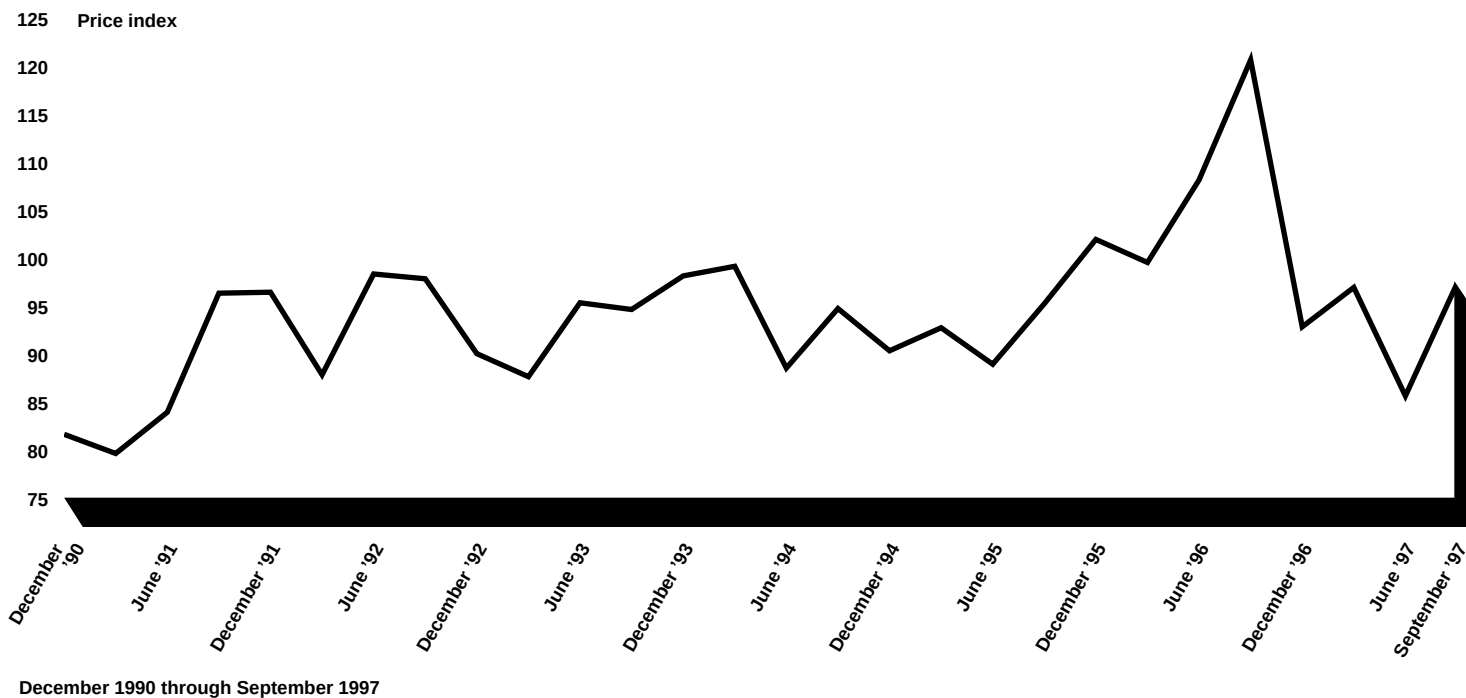


Note: Price indexes have not been seasonally adjusted.

Source: BLS.

Appendix II
Changes in the Bureau of Labor Statistics'
Price Indexes for Selected Dairy Products,
December 1990 Through September 1997

Figure II.3: Trends in the Farm-Level Price Index for Milk Used for Processed Dairy Products and Cheese, December 1990 Through September 1997

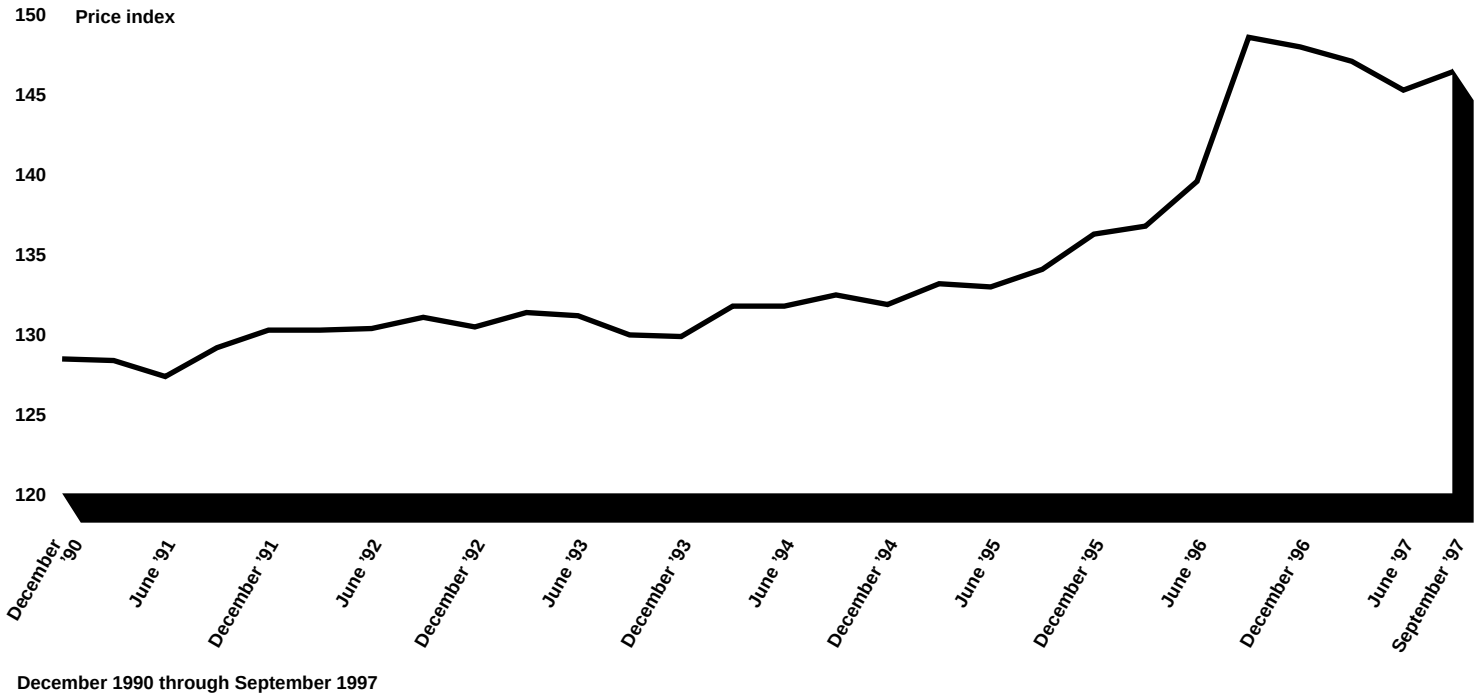


Note: Price indexes have not been seasonally adjusted.

Source: BLS.

Appendix II
Changes in the Bureau of Labor Statistics'
Price Indexes for Selected Dairy Products,
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Figure II.4: Trends in the Retail-Level Price Index for Processed Dairy Products, December 1990 Through September 1997

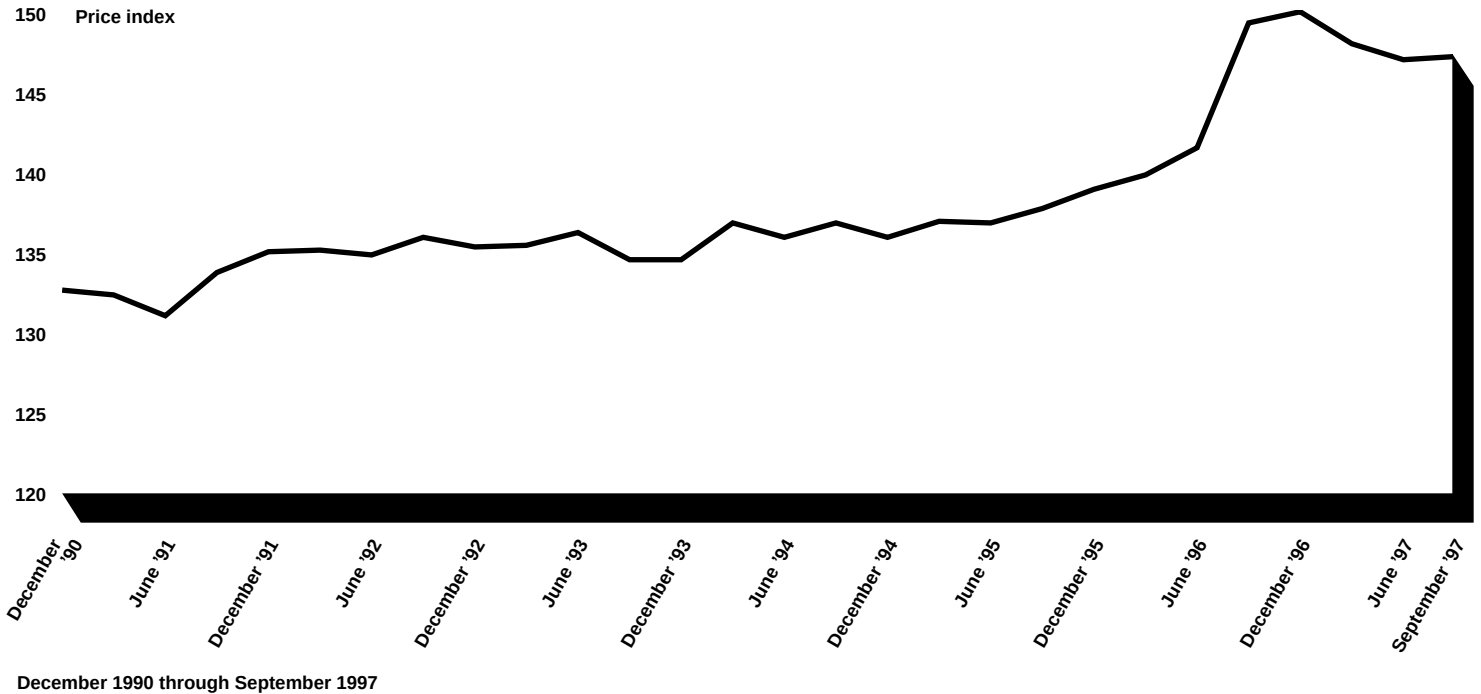


Note: Price indexes have not been seasonally adjusted.

Source: BLS.

Appendix II
Changes in the Bureau of Labor Statistics'
Price Indexes for Selected Dairy Products,
December 1990 Through September 1997

Figure II.5: Trends in the Retail-Level Price Index for Cheese, December 1990 Through September 1997



Note: Price indexes have not been seasonally adjusted.

Source: BLS.

Prices Announced by Dairy Cooperatives and Retail Prices for Milk in Selected Cities, January 1991 Through September 1997

This appendix discusses our analysis of the data from AMS on the prices announced by dairy cooperatives to the handlers that buy their milk and the retail prices for milk in selected cities from January 1991 through September 1997. This appendix provides information on (1) the difference (price spread) between the average annual retail and announced cooperative prices for a gallon of whole milk in 28 cities for the period January 1991 through September 1997, (2) the annual percent change in the price spread for a gallon of milk in each of the 28 cities for the period January 1991 through September 1997, and (3) the retail and cooperative prices for a gallon of whole milk in 28 cities for the period January 1991 through September 1997. (This appendix does not provide information on the price spread between farm and retail milk prices. Information on farm-to-retail milk price spreads will be provided in a subsequent report.)

The announced cooperative price is the Class I milk price announced by the major cooperative in each of the city markets. The announced cooperative price does not apply to all Class I sales in these city markets and is not necessarily the price actually received for all of the fluid milk sold by the major cooperative. The announced cooperative prices have not been verified as actually having been paid by handlers.

The retail price data were collected by federal milk marketing order administrators who surveyed one outlet in each of the largest and second largest food retailing chains and the largest convenience chain store in these cities. The surveys were conducted during the first 10 days of each month, and the same stores were surveyed each month. The price represents that of the most common brand of whole milk sold in each store.

The data in this appendix are for those cities for which AMS had monthly data for both retail prices and announced cooperative prices for milk. From January 1991 through December 1992, AMS collected these data for 29 cities; from January 1993 through September 1997, data were available for only 28 cities. These data have not been adjusted for inflation.

Price Spread for a Gallon of Milk in Selected Cities

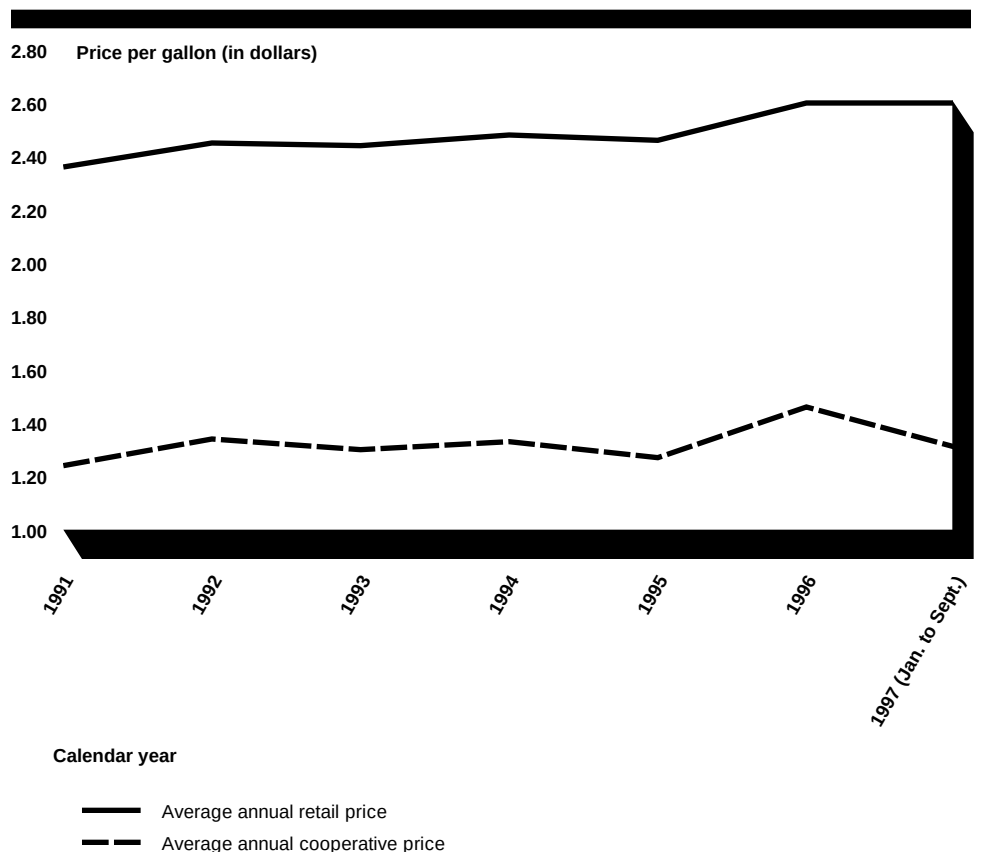
According to our analysis, the average difference (price spread) between the retail price and the cooperative announced price for a gallon of milk in 28 cities increased from \$1.12 in 1991 to \$1.30 in 1997.¹ (This is the nominal price spread increase not adjusted for inflation. The percent

¹These are the simple unweighted averages for the annual price spread across the 28 cities. Also, for this report, we did not adjust the announced cooperative Class I price by using the butterfat differential.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

increase in the price spread—16 percent—has been slightly more than the rate of inflation—15 percent—for 1991 through 1997, which implies a slight increase in the inflation-adjusted price spread. We used the gross domestic product price index to adjust these numbers for inflation.) Figure III.1 shows the average annual retail and cooperative prices for 28 cities for the period January 1991 through September 1997. However, this price spread varied significantly across the 28 cities during this period as shown in table III.1. For example, in 1991, the average price spread ranged from a high of \$1.54 per gallon in Seattle, Washington, to a low of \$0.86 in Louisville, Kentucky, and in 1997, ranged from a high of \$1.97 per gallon in Seattle, Washington, to a low of \$0.51 in Cincinnati, Ohio.

Figure III.1: Average Annual Retail and Cooperative Prices Per Gallon of Whole Milk for 28 Cities, January 1991 Through September 1997



Source: AMS.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

Table III.1: Average Annual Difference Between Retail and Announced Cooperative Prices for a Gallon of Whole Milk, January 1991 Through September 1997

City	1991	1992	1993	1994	1995	1996	1997^a
Atlanta, Ga.	\$0.94	\$0.86	\$0.85	\$0.68	\$0.82	\$0.83	\$1.20
Baltimore, Md.	1.14	1.20	1.26	1.25	1.35	1.33	1.34
Boston, Mass.	1.05	1.06	1.17	1.12	1.01	0.89	1.06
Carbondale, Ill.	0.99	0.91	0.80	0.76	1.00	0.94	1.12
Chicago, Ill.	1.18	1.24	1.28	1.34	1.41	1.38	1.55
Cincinnati, Ohio	0.87	0.81	0.96	1.10	1.14	1.12	0.51
Cleveland, Ohio	1.21	1.14	1.16	1.19	1.29	0.87	1.22
Dallas, Tex.	1.19	1.03	0.92	0.94	1.00	0.97	1.27
Denver, Colo.	1.30	1.28	1.45	1.76	1.81	1.40	1.62
Detroit, Mich.	1.05	1.03	0.95	1.06	1.14	0.99	1.33
Hartford, Conn.	1.08	1.04	1.15	1.08	1.08	0.93	1.12
Houston, Tex.	1.45	1.22	1.12	0.91	1.09	1.04	1.17
Indianapolis, Ind.	0.98	1.03	1.16	1.15	1.23	1.25	1.45
Kansas City, Mo.	1.07	1.06	1.15	1.22	1.25	1.21	1.44
Louisville, Ky.	0.86	0.84	0.79	0.76	0.81	0.98	1.20
Miami, Fla.	1.38	1.21	1.19	1.11	1.16	1.25	1.35
Milwaukee, Wis.	1.13	1.13	1.18	1.24	1.19	1.17	1.31
Minneapolis, Minn.	1.37	1.42	1.56	1.58	1.61	1.57	1.67
Nashville, Tenn.	0.84	0.79	^b	^b	^b	^b	^b
New Orleans, La.	1.02	0.98	1.10	1.05	0.93	1.01	1.27
Oklahoma City, Okla.	1.30	1.06	1.05	1.13	1.03	1.00	1.27
Omaha, Nebr.	1.07	1.06	1.23	1.34	1.37	1.34	1.36
Philadelphia, Pa.	0.90	0.98	1.05	1.14	1.15	1.06	1.14
Phoenix, Ariz.	1.20	1.22	1.31	1.32	1.39	1.06	1.23
Pittsburgh, Pa.	0.99	1.07	1.08	1.11	1.10	1.18	1.24
St. Louis, Mo.	1.18	1.25	0.96	0.92	1.13	1.25	1.36
Salt Lake City, Utah	0.93	1.06	1.20	0.99	0.96	0.94	1.28
Seattle, Wash.	1.54	1.71	1.70	1.73	1.75	1.85	1.97
Washington, D.C.	1.06	1.14	1.17	1.23	1.25	1.13	1.24

^aData for a full year were not available.

^bComparable data were not available.

Source: AMS.

Change in the Percentage of the Average Annual Price Spread for Milk in Selected Cities

Our analysis of the change in the percentage of the average annual price spread for a gallon of whole milk shows that the largest increase in percentages in any year since 1991 occurred in 15 of the 28 cities in 1997.² For 1997, the increase in the price spread ranged from a low of 1 percent in Omaha, Nebraska to a high of 44 percent in Atlanta, Georgia. Table III.2 shows the change in the percentage of the average annual price spread for a gallon of whole milk for 28 cities for the period January 1991 through September 1997.

²Comparable data were not available for Nashville, Tennessee, for 1993 through 1997.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

Table III.2: Change in the Average Annual Difference Between Retail and Announced Cooperative Prices for a Gallon of Whole Milk Shown in Percentages, January 1991 Through September 1997

City	Percent						
	1991	1992	1993	1994	1995	1996	1997 ^a
Atlanta, Ga.	18	-8	-2	-20	21	2	44
Baltimore, Md.	12	5	5	-1	8	-2	0
Boston, Mass.	9	1	10	-5	-9	-12	20
Carbondale, Ill.	26	-8	-12	-5	32	-6	18
Chicago, Ill.	21	5	4	5	5	-2	13
Cincinnati, Ohio	5	-7	19	14	3	-2	-54
Cleveland, Ohio	15	-5	2	2	8	-33	41
Dallas, Tex.	-12	-13	-10	2	6	-3	31
Denver, Colo.	12	-1	13	21	3	-22	15
Detroit, Mich.	8	-2	-7	11	8	-14	35
Hartford, Conn.	9	-4	10	-6	0	-14	21
Houston, Tex.	-4	-16	-8	-19	20	-4	12
Indianapolis, Ind.	-7	5	12	0	7	1	16
Kansas City, Mo.	-4	-1	8	6	3	-3	18
Louisville, Ky.	5	-3	-6	-3	7	20	22
Miami, Fla.	7	-12	-2	-7	4	7	8
Milwaukee, Wis.	10	0	5	5	-4	-2	12
Minneapolis, Minn.	8	4	0	1	2	-3	7
Nashville, Tenn.	11	-5	^b	^b	^b	^b	^b
New Orleans, La.	1	-4	12	-4	-12	8	26
Oklahoma City, Okla.	0	-18	-1	7	-9	-3	28
Omaha, Nebr.	-3	-1	16	9	2	-2	1
Philadelphia, Pa.	1	8	8	8	1	-7	7
Phoenix, Ariz.	24	2	7	1	5	-24	16
Pittsburgh, Pa.	1	8	1	2	-1	7	5
St. Louis, Mo.	-20	6	-23	-4	23	10	9
Salt Lake City, Utah	-17	13	13	-17	-3	-2	36
Seattle, Wash.	17	11	0	2	1	6	6
Washington, D.C.	4	8	3	5	2	-9	9

^aData for the full year were not available.

^bComparable data were not available.

Source: AMS.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

Data on Retail and Cooperative Announced Milk Prices in Selected Cities

Tables III.3 through III.9 present data for January 1991 through September 1997 on the retail and announced cooperative prices for a gallon of whole milk for each of the cities for which we obtained data. The announced cooperative price does not apply to all Class I sales in these city markets and is not necessarily the price actually received for all of the fluid milk sold by the major cooperative. In addition, according to AMS officials, about 23 percent of the fluid milk sold nationwide is by producers that are not members of dairy cooperatives.

Table III.3: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, 1991

	1991												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Atlanta, Ga.													
Retail	\$2.29	\$2.29	\$2.29	\$2.22	\$2.15	\$2.05	\$2.18	\$2.22	\$2.22	\$2.15	\$2.28	\$2.35	\$2.22
Cooperative	1.27	1.26	1.22	1.21	1.21	1.21	1.23	1.32	1.32	1.36	1.40	1.45	1.29
Difference	\$1.02	\$1.03	\$1.07	\$1.01	\$0.94	\$0.84	\$0.95	\$0.90	\$0.90	\$0.79	\$0.88	\$0.90	\$0.94
Baltimore, Md.													
Retail	\$2.43	\$2.44	\$2.40	\$2.40	\$2.44	\$2.44	\$2.44	\$2.44	\$2.38	\$2.50	\$2.50	\$2.57	\$2.45
Cooperative	1.28	1.27	1.27	1.26	1.26	1.26	1.25	1.28	1.32	1.36	1.41	1.45	1.31
Difference	\$1.15	\$1.17	\$1.13	\$1.14	\$1.18	\$1.18	\$1.19	\$1.16	\$1.06	\$1.14	\$1.09	\$1.12	\$1.14
Boston, Mass.													
Retail	\$2.39	\$2.38	\$2.38	\$2.38	\$2.36	\$2.29	\$2.31	\$2.37	\$2.38	\$2.38	\$2.39	\$2.44	\$2.37
Cooperative	1.27	1.25	1.24	1.22	1.22	1.33	1.34	1.38	1.39	1.38	1.38	1.42	1.32
Difference	\$1.12	\$1.13	\$1.14	\$1.16	\$1.14	\$0.96	\$0.97	\$0.99	\$0.99	\$1.00	\$1.01	\$1.02	\$1.05
Carbondale, Ill.													
Retail	\$2.28	\$2.24	\$2.21	\$2.17	\$2.18	\$2.24	\$2.16	\$2.23	\$2.26	\$2.23	\$2.26	\$2.28	\$2.23
Cooperative	1.21	1.21	1.21	1.21	1.17	1.17	1.19	1.22	1.27	1.27	1.35	1.41	1.24
Difference	\$1.07	\$1.03	\$1.00	\$0.96	\$1.01	\$1.07	\$0.97	\$1.01	\$0.99	\$0.96	\$0.91	\$0.87	\$0.99
Chicago, Ill.													
Retail	\$2.44	\$2.44	\$2.49	\$2.36	\$2.42	\$2.42	\$2.42	\$2.46	\$2.46	\$2.56	\$2.46	\$2.46	\$2.45
Cooperative	1.24	1.22	1.22	1.21	1.21	1.21	1.22	1.25	1.30	1.34	1.38	1.44	1.27
Difference	\$1.20	\$1.22	\$1.27	\$1.15	\$1.21	\$1.21	\$1.20	\$1.21	\$1.16	\$1.22	\$1.08	\$1.02	\$1.18
Cincinnati, Ohio													
Retail	\$2.13	\$2.12	\$2.09	\$1.99	\$1.99	\$1.99	\$2.04	\$2.16	\$2.12	\$2.12	\$2.12	\$2.09	\$2.08
Cooperative	1.19	1.19	1.18	1.13	1.13	1.13	1.15	1.20	1.24	1.28	1.33	1.37	1.21
Difference	\$0.94	\$0.93	\$0.91	\$0.86	\$0.86	\$0.86	\$0.89	\$0.96	\$0.88	\$0.84	\$0.79	\$0.72	\$0.87

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1991												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Cleveland, Ohio													
Retail	\$2.39	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.39	\$2.44	\$2.47	\$2.49	\$2.52	\$2.41
Cooperative	1.18	1.18	1.18	1.13	1.13	1.13	1.14	1.18	1.22	1.26	1.31	1.35	1.20
Difference	\$1.21	\$1.18	\$1.18	\$1.23	\$1.23	\$1.23	\$1.22	\$1.21	\$1.22	\$1.21	\$1.18	\$1.17	\$1.21
Dallas, Tex.													
Retail	\$2.42	\$2.22	\$2.32	\$2.46	\$2.46	\$2.46	\$2.46	\$2.42	\$2.46	\$2.49	\$2.49	\$2.39	\$2.42
Cooperative	1.20	1.19	1.19	1.18	1.18	1.18	1.19	1.23	1.26	1.30	1.35	1.38	1.23
Difference	\$1.22	\$1.03	\$1.13	\$1.28	\$1.28	\$1.28	\$1.27	\$1.19	\$1.20	\$1.19	\$1.14	\$1.01	\$1.19
Denver, Colo.													
Retail	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.51	\$2.51	\$2.54	\$2.58	\$2.58	\$2.63	\$2.54
Cooperative	1.20	1.20	1.20	1.19	1.18	1.19	1.20	1.23	1.27	1.31	1.36	1.40	1.24
Difference	\$1.32	\$1.32	\$1.32	\$1.33	\$1.34	\$1.33	\$1.31	\$1.28	\$1.27	\$1.27	\$1.22	\$1.23	\$1.30
Detroit, Mich.													
Retail	\$2.31	\$2.27	\$2.13	\$2.27	\$2.27	\$2.27	\$2.11	\$2.11	\$2.34	\$2.31	\$2.19	\$2.23	\$2.23
Cooperative	1.17	1.15	1.15	1.12	1.12	1.12	1.12	1.17	1.20	1.25	1.29	1.33	1.18
Difference	\$1.14	\$1.12	\$0.98	\$1.15	\$1.15	\$1.15	\$0.99	\$0.94	\$1.14	\$1.06	\$0.90	\$0.90	\$1.05
Hartford, Conn.													
Retail	\$2.42	\$2.41	\$2.39	\$2.38	\$2.38	\$2.35	\$2.41	\$2.41	\$2.40	\$2.38	\$2.38	\$2.41	\$2.39
Cooperative	1.26	1.24	1.23	1.21	1.22	1.32	1.34	1.38	1.39	1.38	1.37	1.41	1.31
Difference	\$1.16	\$1.17	\$1.16	\$1.17	\$1.16	\$1.03	\$1.07	\$1.03	\$1.01	\$1.00	\$1.01	\$1.00	\$1.08
Houston, Tex.													
Retail	\$2.81	\$2.81	\$2.81	\$2.66	\$2.59	\$2.69	\$2.69	\$2.72	\$2.76	\$2.79	\$2.72	\$2.72	\$2.73
Cooperative	1.24	1.24	1.24	1.23	1.22	1.22	1.24	1.27	1.30	1.35	1.39	1.42	1.28
Difference	\$1.57	\$1.57	\$1.57	\$1.43	\$1.37	\$1.47	\$1.45	\$1.45	\$1.46	\$1.44	\$1.33	\$1.30	\$1.45
Indianapolis, Ind.													
Retail	\$2.22	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.22	\$2.22	\$2.26	\$2.29	\$2.32	\$2.19
Cooperative	1.17	1.17	1.17	1.15	1.15	1.15	1.17	1.20	1.23	1.28	1.32	1.36	1.21
Difference	\$1.05	\$0.95	\$0.95	\$0.97	\$0.97	\$0.97	\$0.95	\$1.02	\$0.99	\$0.98	\$0.97	\$0.96	\$0.98
Kansas City, Mo.													
Retail	\$2.31	\$2.30	\$2.22	\$2.22	\$2.22	\$2.20	\$2.22	\$2.16	\$2.20	\$2.31	\$2.37	\$2.40	\$2.26
Cooperative	1.12	1.12	1.12	1.12	1.12	1.12	1.14	1.18	1.24	1.29	1.34	1.38	1.19
Difference	\$1.19	\$1.18	\$1.10	\$1.10	\$1.10	\$1.08	\$1.08	\$0.98	\$0.96	\$1.02	\$1.03	\$1.02	\$1.07
Louisville, Ky.													
Retail	\$2.04	\$2.04	\$2.04	\$2.04	\$2.04	\$2.04	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05	\$2.05
Cooperative	1.13	1.13	1.17	1.15	1.12	1.12	1.14	1.16	1.20	1.24	1.28	1.33	1.18
Difference	\$0.91	\$0.91	\$0.87	\$0.89	\$0.92	\$0.92	\$0.91	\$0.89	\$0.85	\$0.81	\$0.77	\$0.72	\$0.86

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1991												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Miami, Fla.													
Retail	\$2.85	\$2.85	\$2.85	\$2.85	\$2.85	\$2.85	\$2.85	\$2.85	\$2.88	\$2.92	\$2.92	\$2.92	\$2.87
Cooperative	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.53	1.53	1.57	1.61	1.66	1.49
Difference	\$1.42	\$1.42	\$1.42	\$1.42	\$1.42	\$1.42	\$1.42	\$1.32	\$1.35	\$1.35	\$1.31	\$1.26	\$1.38
Milwaukee, Wis.													
Retail	\$2.30	\$2.30	\$2.30	\$2.32	\$2.30	\$2.30	\$2.31	\$2.38	\$2.50	\$2.57	\$2.48	\$2.56	\$2.39
Cooperative	1.21	1.19	1.19	1.18	1.18	1.21	1.22	1.25	1.29	1.33	1.38	1.43	1.25
Difference	\$1.09	\$1.11	\$1.11	\$1.14	\$1.12	\$1.09	\$1.09	\$1.13	\$1.21	\$1.24	\$1.10	\$1.13	\$1.13
Minneapolis, Minn.													
Retail	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.42	\$2.44	\$2.50	\$2.52	\$2.56	\$2.62	\$2.46
Cooperative	1.02	1.02	1.02	1.02	1.02	1.02	1.04	1.08	1.14	1.19	1.23	1.28	1.09
Difference	\$1.38	\$1.38	\$1.38	\$1.38	\$1.38	\$1.38	\$1.38	\$1.36	\$1.36	\$1.33	\$1.33	\$1.34	\$1.37
Nashville, Tenn.													
Retail	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.12	\$2.12	\$2.12	\$2.12	\$2.05
Cooperative	1.17	1.16	1.18	1.17	1.16	1.16	1.17	1.20	1.24	1.28	1.33	1.37	1.22
Difference	\$0.85	\$0.86	\$0.84	\$0.85	\$0.86	\$0.86	\$0.85	\$0.82	\$0.88	\$0.84	\$0.79	\$0.75	\$0.84
New Orleans, La.													
Retail	\$2.36	\$2.36	\$2.36	\$2.32	\$2.28	\$2.28	\$2.26	\$2.29	\$2.29	\$2.28	\$2.28	\$2.29	\$2.30
Cooperative	1.24	1.24	1.23	1.22	1.22	1.22	1.27	1.30	1.31	1.35	1.39	1.44	1.29
Difference	\$1.12	\$1.12	\$1.13	\$1.10	\$1.06	\$1.06	\$0.99	\$0.99	\$0.98	\$0.93	\$0.89	\$0.85	\$1.02
Oklahoma City, Okla.													
Retail	\$2.60	\$2.57	\$2.55	\$2.51	\$2.37	\$2.46	\$2.46	\$2.45	\$2.44	\$2.49	\$2.50	\$2.51	\$2.49
Cooperative	1.15	1.15	1.15	1.14	1.13	1.13	1.15	1.18	1.22	1.26	1.31	1.35	1.19
Difference	\$1.45	\$1.42	\$1.40	\$1.37	\$1.24	\$1.33	\$1.31	\$1.27	\$1.22	\$1.23	\$1.19	\$1.16	\$1.30
Omaha, Nebr.													
Retail	\$2.26	\$2.26	\$2.22	\$2.22	\$2.22	\$2.21	\$2.23	\$2.11	\$2.13	\$2.28	\$2.35	\$2.43	\$2.24
Cooperative	1.11	1.10	1.10	1.10	1.10	1.10	1.12	1.16	1.23	1.27	1.32	1.36	1.17
Difference	\$1.15	\$1.16	\$1.12	\$1.12	\$1.12	\$1.11	\$1.11	\$0.95	\$0.90	\$1.01	\$1.03	\$1.07	\$1.07
Philadelphia, Pa.													
Retail	\$2.29	\$2.19	\$2.15	\$2.14	\$2.12	\$2.12	\$2.12	\$2.14	\$2.18	\$2.31	\$2.32	\$2.38	\$2.21
Cooperative	1.28	1.27	1.27	1.26	1.26	1.26	1.25	1.28	1.32	1.36	1.40	1.45	1.30
Difference	\$1.01	\$0.92	\$0.88	\$0.88	\$0.86	\$0.86	\$0.87	\$0.86	\$0.86	\$0.95	\$0.92	\$0.93	\$0.90

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1991												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Phoenix, Ariz.													
Retail	\$2.31	\$2.31	\$2.31	\$2.28	\$2.31	\$2.31	\$2.31	\$2.31	\$2.38	\$2.39	\$2.39	\$2.42	\$2.34
Cooperative	1.10	1.09	1.09	1.08	1.08	1.08	1.10	1.13	1.16	1.21	1.25	1.29	1.14
Difference	\$1.21	\$1.22	\$1.22	\$1.20	\$1.23	\$1.23	\$1.21	\$1.18	\$1.22	\$1.18	\$1.14	\$1.13	\$1.20
Pittsburgh, Pa.													
Retail	\$2.18	\$2.17	\$2.16	\$2.16	\$2.16	\$2.16	\$2.14	\$2.18	\$2.24	\$2.26	\$2.34	\$2.40	\$2.21
Cooperative	1.19	1.19	1.18	1.17	1.17	1.17	1.16	1.19	1.23	1.27	1.32	1.36	1.22
Difference	\$0.99	\$0.98	\$0.98	\$0.99	\$0.99	\$0.99	\$0.98	\$0.99	\$1.01	\$0.99	\$1.02	\$1.04	\$0.99
St. Louis, Mo.													
Retail	\$2.40	\$2.36	\$2.33	\$2.36	\$2.36	\$2.36	\$2.35	\$2.42	\$2.48	\$2.48	\$2.56	\$2.61	\$2.42
Cooperative	1.21	1.21	1.21	1.21	1.17	1.17	1.19	1.22	1.27	1.27	1.35	1.41	1.24
Difference	\$1.19	\$1.15	\$1.12	\$1.15	\$1.19	\$1.19	\$1.16	\$1.20	\$1.21	\$1.21	\$1.21	\$1.20	\$1.18
Salt Lake City, Utah													
Retail	\$2.05	\$1.99	\$1.99	\$1.98	\$1.95	\$1.94	\$1.94	\$2.05	\$2.05	\$2.13	\$2.13	\$2.18	\$2.03
Cooperative	1.06	1.05	1.05	1.04	1.04	1.04	1.06	1.09	1.12	1.17	1.21	1.25	1.10
Difference	\$0.99	\$0.94	\$0.94	\$0.94	\$0.91	\$0.90	\$0.88	\$0.96	\$0.93	\$0.96	\$0.92	\$0.93	\$0.93
Seattle, Wash.													
Retail	\$2.75	\$2.75	\$2.64	\$2.69	\$2.61	\$2.63	\$2.63	\$2.63	\$2.63	\$2.63	\$2.67	\$2.67	\$2.66
Cooperative	1.08	1.08	1.08	1.07	1.06	1.07	1.08	1.11	1.15	1.19	1.24	1.28	1.12
Difference	\$1.67	\$1.67	\$1.56	\$1.62	\$1.55	\$1.56	\$1.55	\$1.52	\$1.48	\$1.44	\$1.43	\$1.39	\$1.54
Washington, D.C.													
Retail	\$2.34	\$2.34	\$2.34	\$2.34	\$2.34	\$2.34	\$2.35	\$2.38	\$2.26	\$2.48	\$2.34	\$2.51	\$2.36
Cooperative	1.28	1.27	1.27	1.26	1.26	1.26	1.25	1.28	1.32	1.36	1.41	1.45	1.31
Difference	\$1.06	\$1.07	\$1.07	\$1.08	\$1.08	\$1.08	\$1.10	\$1.10	\$0.94	\$1.12	\$0.93	\$1.06	\$1.06

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made by using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

Source: AMS.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

Table III.4: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, 1992

	1992												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Atlanta, Ga.													
Retail	\$2.38	\$2.32	\$2.35	\$2.25	\$2.35	\$2.25	\$2.12	\$2.12	\$2.22	\$2.22	\$2.22	\$2.22	\$2.25
Cooperative	1.45	1.39	1.36	1.34	1.34	1.34	1.39	1.42	1.44	1.43	1.41	1.39	1.39
Difference	\$0.93	\$0.93	\$0.99	\$0.91	\$1.01	\$0.91	\$0.73	\$0.70	\$0.78	\$0.79	\$0.81	\$0.83	\$0.86
Baltimore, Md.													
Retail	\$2.58	\$2.57	\$2.56	\$2.56	\$2.56	\$2.57	\$2.60	\$2.66	\$2.67	\$2.67	\$2.66	\$2.59	\$2.60
Cooperative	1.45	1.41	1.40	1.36	1.34	1.38	1.39	1.42	1.43	1.43	1.41	1.39	1.40
Difference	\$1.13	\$1.16	\$1.16	\$1.20	\$1.22	\$1.19	\$1.21	\$1.24	\$1.24	\$1.24	\$1.25	\$1.20	\$1.20
Boston, Mass.													
Retail	\$2.43	\$2.35	\$2.41	\$2.37	\$2.37	\$2.43	\$2.47	\$2.50	\$2.49	\$2.46	\$2.46	\$2.45	\$2.43
Cooperative	1.42	1.39	1.35	1.30	1.28	1.32	1.37	1.41	1.41	1.41	1.38	1.36	1.37
Difference	\$1.01	\$0.96	\$1.06	\$1.07	\$1.09	\$1.11	\$1.10	\$1.09	\$1.08	\$1.05	\$1.08	\$1.09	\$1.06
Carbondale, Ill.													
Retail	\$2.26	\$2.26	\$2.26	\$2.26	\$2.30	\$2.26	\$2.13	\$2.39	\$2.30	\$2.28	\$2.28	\$2.28	\$2.27
Cooperative	1.41	1.38	1.37	1.30	1.30	1.32	1.32	1.41	1.41	1.41	1.39	1.37	1.37
Difference	\$0.85	\$0.88	\$0.89	\$0.96	\$1.00	\$0.94	\$0.81	\$0.98	\$0.89	\$0.87	\$0.89	\$0.91	\$0.91
Chicago, Ill.													
Retail	\$2.59	\$2.72	\$2.71	\$2.58	\$2.52	\$2.52	\$2.58	\$2.63	\$2.63	\$2.63	\$2.74	\$2.78	\$2.64
Cooperative	1.43	1.40	1.36	1.33	1.31	1.35	1.40	1.44	1.46	1.47	1.44	1.42	1.40
Difference	\$1.16	\$1.32	\$1.35	\$1.25	\$1.21	\$1.17	\$1.18	\$1.19	\$1.17	\$1.16	\$1.30	\$1.36	\$1.24
Cincinnati, Ohio													
Retail	\$2.09	\$2.09	\$2.09	\$2.09	\$2.16	\$2.16	\$2.16	\$2.19	\$2.19	\$2.16	\$2.16	\$2.16	\$2.14
Cooperative	1.37	1.33	1.30	1.26	1.24	1.28	1.33	1.36	1.40	1.39	1.37	1.35	1.33
Difference	\$0.72	\$0.76	\$0.79	\$0.83	\$0.92	\$0.88	\$0.83	\$0.83	\$0.79	\$0.77	\$0.79	\$0.81	\$0.81
Cleveland, Ohio													
Retail	\$2.47	\$2.47	\$2.47	\$2.45	\$2.41	\$2.44	\$2.42	\$2.42	\$2.47	\$2.46	\$2.46	\$2.46	\$2.45
Cooperative	1.35	1.32	1.28	1.24	1.22	1.26	1.29	1.33	1.38	1.37	1.35	1.33	1.31
Difference	\$1.12	\$1.15	\$1.19	\$1.21	\$1.19	\$1.18	\$1.13	\$1.09	\$1.09	\$1.09	\$1.11	\$1.13	\$1.14
Dallas, Tex.													
Retail	\$2.39	\$2.39	\$2.39	\$2.39	\$2.16	\$2.52	\$2.36	\$2.29	\$2.39	\$2.39	\$2.39	\$2.39	\$2.37
Cooperative	1.38	1.34	1.32	1.28	1.26	1.30	1.35	1.39	1.40	1.39	1.36	1.34	1.34
Difference	\$1.01	\$1.05	\$1.07	\$1.11	\$0.90	\$1.22	\$1.01	\$0.90	\$0.99	\$1.00	\$1.03	\$1.05	\$1.03

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1992												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Denver, Colo.													
Retail	\$2.63	\$2.63	\$2.60	\$2.60	\$2.60	\$2.56	\$2.56	\$2.62	\$2.72	\$2.72	\$2.72	\$2.65	\$2.63
Cooperative	1.40	1.36	1.33	1.29	1.27	1.31	1.36	1.39	1.40	1.40	1.38	1.33	1.35
Difference	\$1.23	\$1.27	\$1.27	\$1.31	\$1.33	\$1.25	\$1.20	\$1.23	\$1.32	\$1.32	\$1.34	\$1.32	\$1.28
Detroit, Mich.													
Retail	\$2.06	\$2.23	\$2.19	\$2.36	\$2.22	\$2.22	\$2.36	\$2.26	\$2.36	\$2.23	\$2.36	\$2.36	\$2.27
Cooperative	1.33	1.30	1.26	1.22	1.20	1.14	1.20	1.23	1.24	1.24	1.23	1.26	1.24
Difference	\$0.73	\$0.93	\$0.93	\$1.14	\$1.02	\$1.08	\$1.16	\$1.03	\$1.12	\$0.99	\$1.13	\$1.10	\$1.03
Hartford, Conn.													
Retail	\$2.40	\$2.37	\$2.37	\$2.37	\$2.37	\$2.41	\$2.41	\$2.41	\$2.40	\$2.40	\$2.44	\$2.46	\$2.40
Cooperative	1.41	1.38	1.34	1.29	1.27	1.31	1.37	1.40	1.40	1.40	1.38	1.36	1.36
Difference	\$0.99	\$0.99	\$1.03	\$1.08	\$1.10	\$1.10	\$1.04	\$1.01	\$1.00	\$1.00	\$1.06	\$1.10	\$1.04
Houston, Tex.													
Retail	\$2.84	\$2.82	\$2.82	\$2.86	\$2.55	\$2.41	\$2.42	\$2.42	\$2.49	\$2.52	\$2.50	\$2.64	\$2.61
Cooperative	1.42	1.39	1.37	1.33	1.31	1.35	1.40	1.43	1.44	1.44	1.41	1.39	1.39
Difference	\$1.42	\$1.43	\$1.45	\$1.53	\$1.24	\$1.06	\$1.02	\$0.99	\$1.05	\$1.08	\$1.09	\$1.25	\$1.22
Indianapolis, Ind.													
Retail	\$2.36	\$2.19	\$2.36	\$2.32	\$2.29	\$2.32	\$2.36	\$2.38	\$2.42	\$2.42	\$2.42	\$2.42	\$2.36
Cooperative	1.36	1.33	1.30	1.26	1.24	1.28	1.33	1.36	1.38	1.38	1.35	1.33	1.33
Difference	\$1.00	\$0.86	\$1.06	\$1.06	\$1.05	\$1.04	\$1.03	\$1.02	\$1.04	\$1.04	\$1.07	\$1.09	\$1.03
Kansas City, Mo.													
Retail	\$2.44	\$2.43	\$2.44	\$2.43	\$2.43	\$2.31	\$2.34	\$2.36	\$2.39	\$2.37	\$2.37	\$2.39	\$2.39
Cooperative	1.38	1.34	1.29	1.26	1.25	1.28	1.33	1.37	1.37	1.37	1.35	1.34	1.33
Difference	\$1.06	\$1.09	\$1.15	\$1.17	\$1.18	\$1.03	\$1.01	\$0.99	\$1.02	\$1.00	\$1.02	\$1.05	\$1.06
Louisville, Ky.													
Retail	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.09	\$2.12
Cooperative	1.32	1.29	1.26	1.21	1.19	1.24	1.29	1.32	1.33	1.33	1.31	1.29	1.28
Difference	\$0.80	\$0.83	\$0.86	\$0.91	\$0.93	\$0.88	\$0.83	\$0.80	\$0.79	\$0.79	\$0.81	\$0.80	\$0.84
Miami, Fla.													
Retail	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88	\$2.72	\$2.74	\$2.76	\$2.69	\$2.69	\$2.71	\$2.64	\$2.78
Cooperative	1.65	1.62	1.59	1.55	1.53	1.53	1.57	1.57	1.58	1.56	1.54	1.52	1.57
Difference	\$1.23	\$1.26	\$1.29	\$1.33	\$1.35	\$1.19	\$1.17	\$1.19	\$1.11	\$1.13	\$1.17	\$1.12	\$1.21

(continued)

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

	1992												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Milwaukee, Wis.													
Retail	\$2.52	\$2.52	\$2.50	\$2.51	\$2.46	\$2.49	\$2.52	\$2.56	\$2.58	\$2.50	\$2.56	\$2.53	\$2.52
Cooperative	1.42	1.39	1.36	1.32	1.30	1.34	1.40	1.43	1.45	1.46	1.43	1.41	1.39
Difference	\$1.10	\$1.13	\$1.14	\$1.19	\$1.16	\$1.15	\$1.12	\$1.13	\$1.13	\$1.04	\$1.13	\$1.12	\$1.13
Minneapolis, Minn.													
Retail	\$2.62	\$2.59	\$2.56	\$2.56	\$2.56	\$2.60	\$2.68	\$2.71	\$2.73	\$2.73	\$2.73	\$2.72	\$2.65
Cooperative	1.28	1.23	1.18	1.15	1.14	1.18	1.23	1.27	1.29	1.29	1.26	1.25	1.23
Difference	\$1.34	\$1.36	\$1.38	\$1.41	\$1.42	\$1.42	\$1.45	\$1.44	\$1.44	\$1.44	\$1.47	\$1.47	\$1.42
Nashville, Tenn.													
Retail	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12
Cooperative	1.37	1.33	1.30	1.26	1.24	1.28	1.33	1.37	1.38	1.37	1.35	1.33	1.33
Difference	\$0.75	\$0.79	\$0.82	\$0.86	\$0.88	\$0.84	\$0.79	\$0.75	\$0.74	\$0.75	\$0.77	\$0.79	\$0.79
New Orleans, La.													
Retail	\$2.33	\$2.34	\$2.34	\$2.32	\$2.32	\$2.32	\$2.32	\$2.44	\$2.44	\$2.44	\$2.44	\$2.44	\$2.37
Cooperative	1.43	1.40	1.37	1.33	1.31	1.35	1.40	1.43	1.44	1.44	1.42	1.40	1.39
Difference	\$0.90	\$0.94	\$0.97	\$0.99	\$1.01	\$0.97	\$0.92	\$1.01	\$1.00	\$1.00	\$1.02	\$1.04	\$0.98
Oklahoma City, Okla.													
Retail	\$2.51	\$2.51	\$2.51	\$2.51	\$2.14	\$2.15	\$2.21	\$2.33	\$2.37	\$2.38	\$2.46	\$2.46	\$2.38
Cooperative	1.35	1.35	1.29	1.25	1.23	1.28	1.33	1.36	1.37	1.37	1.34	1.32	1.32
Difference	\$1.16	\$1.16	\$1.22	\$1.26	\$0.91	\$0.87	\$0.88	\$0.97	\$1.00	\$1.01	\$1.12	\$1.14	\$1.06
Omaha, Nebr.													
Retail	\$2.42	\$2.42	\$2.42	\$2.38	\$2.06	\$2.22	\$2.21	\$2.43	\$2.46	\$2.49	\$2.49	\$2.49	\$2.37
Cooperative	1.36	1.32	1.27	1.23	1.22	1.26	1.32	1.36	1.37	1.37	1.35	1.33	1.31
Difference	\$1.06	\$1.10	\$1.15	\$1.15	\$0.84	\$0.96	\$0.89	\$1.07	\$1.09	\$1.12	\$1.14	\$1.16	\$1.06
Philadelphia, Pa.													
Retail	\$2.37	\$2.29	\$2.33	\$2.41	\$2.37	\$2.38	\$2.35	\$2.37	\$2.38	\$2.40	\$2.44	\$2.44	\$2.38
Cooperative	1.45	1.41	1.40	1.36	1.34	1.38	1.39	1.42	1.43	1.43	1.41	1.39	1.40
Difference	\$0.92	\$0.88	\$0.93	\$1.05	\$1.03	\$1.00	\$0.96	\$0.95	\$0.95	\$0.97	\$1.03	\$1.05	\$0.98

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1992												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Phoenix, Ariz.													
Retail	\$2.49	\$2.46	\$2.46	\$2.46	\$2.46	\$2.46	\$2.46	\$2.46	\$2.43	\$2.43	\$2.48	\$2.54	\$2.47
Cooperative	1.29	1.26	1.22	1.18	1.16	1.20	1.25	1.29	1.30	1.29	1.27	1.25	1.25
Difference	\$1.20	\$1.20	\$1.24	\$1.28	\$1.30	\$1.26	\$1.21	\$1.17	\$1.13	\$1.14	\$1.21	\$1.29	\$1.22
Pittsburgh, Pa.													
Retail	\$2.40	\$2.38	\$2.41	\$2.35	\$2.31	\$2.39	\$2.39	\$2.43	\$2.45	\$2.45	\$2.41	\$2.41	\$2.40
Cooperative	1.36	1.35	1.31	1.27	1.25	1.29	1.30	1.33	1.38	1.37	1.35	1.33	1.32
Difference	\$1.04	\$1.03	\$1.10	\$1.08	\$1.06	\$1.10	\$1.09	\$1.10	\$1.07	\$1.08	\$1.06	\$1.08	\$1.07
St. Louis, Mo.													
Retail	\$2.61	\$2.61	\$2.61	\$2.61	\$2.60	\$2.66	\$2.73	\$2.80	\$2.80	\$2.80	\$2.28	\$2.32	\$2.62
Cooperative	1.41	1.38	1.37	1.30	1.30	1.32	1.32	1.41	1.41	1.41	1.39	1.37	1.37
Difference	\$1.20	\$1.23	\$1.24	\$1.31	\$1.30	\$1.34	\$1.41	\$1.39	\$1.39	\$1.39	\$0.89	\$0.95	\$1.25
Salt Lake City, Utah													
Retail	\$2.18	\$2.16	\$2.16	\$2.16	\$2.16	\$2.23	\$2.27	\$2.29	\$2.33	\$2.41	\$2.41	\$2.41	\$2.26
Cooperative	1.25	1.22	1.18	1.14	1.12	1.16	1.21	1.25	1.26	1.25	1.23	1.21	1.21
Difference	\$0.93	\$0.94	\$0.98	\$1.02	\$1.04	\$1.07	\$1.06	\$1.04	\$1.07	\$1.16	\$1.18	\$1.20	\$1.06
Seattle, Wash.													
Retail	\$2.88	\$2.88	\$2.88	\$3.00	\$2.86	\$2.86	\$2.91	\$3.01	\$3.01	\$3.01	\$2.98	\$2.98	\$2.94
Cooperative	1.28	1.24	1.21	1.17	1.15	1.19	1.24	1.27	1.28	1.28	1.26	1.24	1.23
Difference	\$1.60	\$1.64	\$1.67	\$1.83	\$1.71	\$1.67	\$1.67	\$1.74	\$1.73	\$1.73	\$1.72	\$1.74	\$1.71
Washington, D.C.													
Retail	\$2.35	\$2.51	\$2.53	\$2.52	\$2.52	\$2.44	\$2.59	\$2.44	\$2.64	\$2.66	\$2.65	\$2.66	\$2.54
Cooperative	1.45	1.41	1.40	1.36	1.34	1.38	1.39	1.42	1.43	1.43	1.41	1.39	1.40
Difference	\$0.90	\$1.10	\$1.13	\$1.16	\$1.18	\$1.06	\$1.20	\$1.02	\$1.21	\$1.23	\$1.24	\$1.27	\$1.14

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made by using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

Source: AMS.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

Table III.5: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, 1993

	1993												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Atlanta, Ga.													
Retail	\$2.22	\$2.18	\$2.18	\$2.18	\$2.08	\$2.18	\$2.22	\$2.12	\$2.25	\$2.25	\$2.25	\$2.25	\$2.20
Cooperative	1.37	1.33	1.29	1.28	1.30	1.40	1.43	1.39	1.32	1.30	1.37	1.41	1.35
Difference	\$0.85	\$0.85	\$0.89	\$0.90	\$0.78	\$0.78	\$0.79	\$0.73	\$0.93	\$0.95	\$0.88	\$0.84	\$0.85
Baltimore, Md.													
Retail	\$2.65	\$2.64	\$2.60	\$2.59	\$2.59	\$2.62	\$2.67	\$2.60	\$2.59	\$2.59	\$2.60	\$2.64	\$2.62
Cooperative	1.37	1.33	1.29	1.27	1.30	1.40	1.43	1.39	1.33	1.31	1.37	1.42	1.35
Difference	\$1.28	\$1.31	\$1.31	\$1.32	\$1.29	\$1.22	\$1.24	\$1.21	\$1.26	\$1.28	\$1.23	\$1.22	\$1.26
Boston, Mass.													
Retail	\$2.45	\$2.46	\$2.45	\$2.41	\$2.39	\$2.51	\$2.54	\$2.53	\$2.53	\$2.51	\$2.56	\$2.58	\$2.49
Cooperative	1.35	1.29	1.26	1.24	1.27	1.36	1.40	1.35	1.30	1.28	1.34	1.39	1.32
Difference	\$1.10	\$1.17	\$1.19	\$1.17	\$1.12	\$1.15	\$1.14	\$1.18	\$1.23	\$1.23	\$1.22	\$1.19	\$1.17
Carbondale, Ill.													
Retail	\$2.28	\$2.14	\$2.24	\$2.11	\$2.20	\$2.21	\$2.23	\$2.14	\$2.08	\$1.96	\$1.96	\$2.08	\$2.14
Cooperative	1.35	1.30	1.27	1.26	1.28	1.38	1.41	1.37	1.32	1.30	1.36	1.41	1.33
Difference	\$0.93	\$0.84	\$0.97	\$0.85	\$0.92	\$0.83	\$0.82	\$0.77	\$0.76	\$0.66	\$0.60	\$0.67	\$0.80
Chicago, Ill.													
Retail	\$2.74	\$2.66	\$2.62	\$2.62	\$2.62	\$2.64	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.72	\$2.66
Cooperative	1.40	1.36	1.32	1.32	1.34	1.43	1.43	1.40	1.36	1.35	1.40	1.44	1.38
Difference	\$1.34	\$1.30	\$1.30	\$1.30	\$1.28	\$1.21	\$1.23	\$1.26	\$1.30	\$1.31	\$1.26	\$1.28	\$1.28
Cincinnati, Ohio													
Retail	\$2.19	\$2.19	\$2.19	\$2.19	\$2.19	\$2.19	\$2.29	\$2.29	\$2.29	\$2.29	\$2.29	\$2.39	\$2.25
Cooperative	1.34	1.30	1.26	1.25	1.27	1.37	1.40	1.35	1.19	1.17	1.23	1.28	1.28
Difference	\$0.85	\$0.89	\$0.93	\$0.94	\$0.92	\$0.82	\$0.89	\$0.94	\$1.10	\$1.12	\$1.06	\$1.11	\$0.96
Cleveland, Ohio													
Retail	\$2.34	\$2.34	\$2.40	\$2.40	\$2.34	\$2.46	\$2.46	\$2.42	\$2.42	\$2.46	\$2.51	\$2.51	\$2.42
Cooperative	1.32	1.28	1.24	1.23	1.25	1.35	1.38	1.28	1.17	1.15	1.21	1.26	1.26
Difference	\$1.02	\$1.06	\$1.16	\$1.17	\$1.09	\$1.11	\$1.08	\$1.14	\$1.25	\$1.31	\$1.30	\$1.25	\$1.16
Dallas, Tex.													
Retail	\$2.12	\$2.12	\$2.12	\$2.12	\$2.12	\$2.32	\$2.32	\$2.32	\$2.28	\$2.28	\$2.32	\$2.32	\$2.23
Cooperative	1.32	1.28	1.24	1.23	1.25	1.35	1.38	1.34	1.29	1.27	1.33	1.38	1.31
Difference	\$0.80	\$0.84	\$0.88	\$0.89	\$0.87	\$0.97	\$0.94	\$0.98	\$0.99	\$1.01	\$0.99	\$0.94	\$0.92

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1993												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Denver, Colo.													
Retail	\$2.65	\$2.65	\$2.55	\$2.55	\$2.64	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.84	\$2.86	\$2.75
Cooperative	1.31	1.27	1.23	1.22	1.24	1.34	1.37	1.33	1.28	1.26	1.32	1.37	1.30
Difference	\$1.34	\$1.38	\$1.32	\$1.33	\$1.40	\$1.50	\$1.47	\$1.51	\$1.56	\$1.58	\$1.52	\$1.49	\$1.45
Detroit, Mich.													
Retail	\$2.43	\$2.36	\$2.06	\$2.06	\$2.09	\$2.06	\$2.19	\$2.19	\$2.19	\$2.23	\$2.26	\$2.26	\$2.20
Cooperative	1.26	1.22	1.18	1.17	1.19	1.29	1.32	1.28	1.23	1.21	1.27	1.32	1.24
Difference	\$1.17	\$1.14	\$0.88	\$0.89	\$0.90	\$0.77	\$0.87	\$0.91	\$0.96	\$1.02	\$0.99	\$0.94	\$0.95
Hartford, Conn.													
Retail	\$2.46	\$2.46	\$2.45	\$2.45	\$2.39	\$2.47	\$2.51	\$2.50	\$2.49	\$2.41	\$2.47	\$2.46	\$2.46
Cooperative	1.34	1.29	1.25	1.23	1.26	1.36	1.39	1.35	1.29	1.27	1.33	1.38	1.31
Difference	\$1.12	\$1.17	\$1.20	\$1.22	\$1.13	\$1.11	\$1.12	\$1.15	\$1.20	\$1.14	\$1.14	\$1.08	\$1.15
Houston, Tex.													
Retail	\$2.64	\$2.64	\$2.42	\$2.42	\$2.42	\$2.49	\$2.52	\$2.52	\$2.39	\$2.39	\$2.39	\$2.39	\$2.47
Cooperative	1.37	1.33	1.29	1.28	1.30	1.40	1.43	1.39	1.33	1.31	1.38	1.42	1.35
Difference	\$1.27	\$1.31	\$1.13	\$1.14	\$1.12	\$1.09	\$1.09	\$1.13	\$1.06	\$1.08	\$1.01	\$0.97	\$1.12
Indianapolis, Ind.													
Retail	\$2.42	\$2.42	\$2.42	\$2.42	\$2.42	\$2.48	\$2.50	\$2.50	\$2.48	\$2.41	\$2.46	\$2.48	\$2.45
Cooperative	1.32	1.27	1.23	1.22	1.25	1.34	1.37	1.33	1.28	1.25	1.31	1.36	1.30
Difference	\$1.10	\$1.15	\$1.19	\$1.20	\$1.17	\$1.14	\$1.13	\$1.17	\$1.20	\$1.16	\$1.15	\$1.12	\$1.16
Kansas City, Mo.													
Retail	\$2.39	\$2.40	\$2.40	\$2.37	\$2.37	\$2.42	\$2.43	\$2.43	\$2.43	\$2.41	\$2.43	\$2.47	\$2.41
Cooperative	1.31	1.27	1.23	1.23	1.24	1.34	1.33	1.29	1.25	1.16	1.22	1.27	1.26
Difference	\$1.08	\$1.13	\$1.17	\$1.14	\$1.13	\$1.08	\$1.10	\$1.14	\$1.18	\$1.25	\$1.21	\$1.20	\$1.15
Louisville, Ky.													
Retail	\$2.06	\$2.06	\$2.01	\$2.01	\$2.04	\$2.11	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.03
Cooperative	1.27	1.23	1.19	1.17	1.20	1.29	1.33	1.28	1.22	1.20	1.26	1.31	1.25
Difference	\$0.79	\$0.83	\$0.82	\$0.84	\$0.84	\$0.82	\$0.69	\$0.74	\$0.80	\$0.82	\$0.76	\$0.71	\$0.79

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1993												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Miami, Fla.													
Retail	\$2.58	\$2.58	\$2.58	\$2.58	\$2.65	\$2.72	\$2.72	\$2.75	\$2.75	\$2.72	\$2.72	\$2.74	\$2.67
Cooperative	1.50	1.46	1.42	1.41	1.43	1.53	1.56	1.52	1.47	1.47	1.51	1.56	1.49
Difference	\$1.08	\$1.12	\$1.16	\$1.17	\$1.22	\$1.19	\$1.16	\$1.23	\$1.28	\$1.25	\$1.21	\$1.18	\$1.19
Milwaukee, Wis.													
Retail	\$2.51	\$2.49	\$2.49	\$2.49	\$2.49	\$2.58	\$2.58	\$2.58	\$2.57	\$2.55	\$2.63	\$2.66	\$2.55
Cooperative	1.39	1.35	1.32	1.32	1.33	1.42	1.42	1.39	1.35	1.34	1.39	1.44	1.37
Difference	\$1.12	\$1.14	\$1.17	\$1.17	\$1.16	\$1.16	\$1.16	\$1.19	\$1.22	\$1.21	\$1.24	\$1.22	\$1.18
Minneapolis, Minn.													
Retail	\$2.72	\$2.70	\$2.66	\$2.66	\$2.80	\$2.78	\$2.80	\$2.78	\$2.84	\$2.87	\$2.77	\$2.81	\$2.77
Cooperative	1.22	1.18	1.14	1.14	1.15	1.25	1.26	1.23	1.18	1.18	1.23	1.28	1.20
Difference	\$1.50	\$1.52	\$1.52	\$1.52	\$1.65	\$1.53	\$1.54	\$1.55	\$1.66	\$1.69	\$1.54	\$1.53	\$1.56
New Orleans, La.													
Retail	\$2.44	\$2.40	\$2.40	\$2.40	\$2.40	\$2.47	\$2.50	\$2.51	\$2.51	\$2.51	\$2.51	\$2.51	\$2.46
Cooperative	1.38	1.34	1.30	1.28	1.31	1.41	1.44	1.40	1.34	1.32	1.38	1.43	1.36
Difference	\$1.06	\$1.06	\$1.10	\$1.12	\$1.09	\$1.06	\$1.06	\$1.11	\$1.17	\$1.19	\$1.13	\$1.08	\$1.10
Oklahoma City, Okla.													
Retail	\$2.31	\$2.31	\$2.29	\$2.29	\$2.29	\$2.34	\$2.34	\$2.34	\$2.34	\$2.34	\$2.41	\$2.45	\$2.34
Cooperative	1.30	1.26	1.22	1.21	1.23	1.33	1.37	1.32	1.27	1.24	1.31	1.36	1.28
Difference	\$1.01	\$1.05	\$1.07	\$1.08	\$1.06	\$1.01	\$0.97	\$1.02	\$1.07	\$1.10	\$1.10	\$1.09	\$1.05
Omaha, Nebr.													
Retail	\$2.46	\$2.43	\$2.40	\$2.38	\$2.40	\$2.51	\$2.55	\$2.60	\$2.60	\$2.56	\$2.61	\$2.65	\$2.51
Cooperative	1.31	1.27	1.23	1.22	1.24	1.33	1.33	1.29	1.25	1.25	1.29	1.34	1.28
Difference	\$1.15	\$1.16	\$1.17	\$1.16	\$1.16	\$1.18	\$1.22	\$1.31	\$1.35	\$1.31	\$1.32	\$1.31	\$1.23
Philadelphia, Pa.													
Retail	\$2.35	\$2.35	\$2.33	\$2.39	\$2.39	\$2.50	\$2.43	\$2.43	\$2.41	\$2.46	\$2.38	\$2.41	\$2.40
Cooperative	1.37	1.33	1.29	1.28	1.30	1.40	1.43	1.39	1.33	1.31	1.37	1.42	1.35
Difference	\$0.98	\$1.02	\$1.04	\$1.11	\$1.09	\$1.10	\$1.00	\$1.04	\$1.08	\$1.15	\$1.01	\$0.99	\$1.05

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**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1993												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Phoenix, Ariz.													
Retail	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.54	\$2.54	\$2.54	\$2.54	\$2.54	\$2.54	\$2.54	\$2.52
Cooperative	1.23	1.19	1.15	1.14	1.16	1.26	1.29	1.25	1.20	1.18	1.24	1.29	1.22
Difference	\$1.27	\$1.31	\$1.35	\$1.36	\$1.34	\$1.28	\$1.25	\$1.29	\$1.34	\$1.36	\$1.30	\$1.25	\$1.31
Pittsburgh, Pa.													
Retail	\$2.37	\$2.33	\$2.25	\$2.23	\$2.25	\$2.37	\$2.43	\$2.39	\$2.38	\$2.29	\$2.37	\$2.43	\$2.34
Cooperative	1.32	1.28	1.24	1.23	1.25	1.35	1.38	1.28	1.17	1.15	1.21	1.26	1.26
Difference	\$1.05	\$1.05	\$1.01	\$1.00	\$1.00	\$1.02	\$1.05	\$1.11	\$1.21	\$1.14	\$1.16	\$1.17	\$1.08
St. Louis, Mo.													
Retail	\$2.29	\$2.26	\$2.29	\$2.26	\$2.19	\$2.31	\$2.30	\$2.33	\$2.29	\$2.29	\$2.36	\$2.36	\$2.29
Cooperative	1.35	1.30	1.27	1.26	1.28	1.38	1.41	1.37	1.32	1.30	1.36	1.41	1.33
Difference	\$0.94	\$0.96	\$1.02	\$1.00	\$0.91	\$0.93	\$0.89	\$0.96	\$0.97	\$0.99	\$1.00	\$0.95	\$0.96
Salt Lake City, Utah													
Retail	\$2.41	\$2.41	\$2.37	\$2.37	\$2.37	\$2.45	\$2.41	\$2.35	\$2.33	\$2.33	\$2.33	\$2.33	\$2.37
Cooperative	1.19	1.15	1.11	1.10	1.12	1.22	1.25	1.21	1.16	1.14	1.20	1.25	1.18
Difference	\$1.22	\$1.26	\$1.26	\$1.27	\$1.25	\$1.23	\$1.16	\$1.14	\$1.17	\$1.19	\$1.13	\$1.08	\$1.20
Seattle, Wash.													
Retail	\$2.94	\$2.94	\$2.94	\$2.82	\$2.82	\$2.82	\$2.85	\$2.90	\$2.90	\$2.95	\$2.95	\$2.95	\$2.90
Cooperative	1.22	1.18	1.14	1.13	1.15	1.25	1.28	1.24	1.18	1.16	1.23	1.27	1.20
Difference	\$1.72	\$1.76	\$1.80	\$1.69	\$1.67	\$1.57	\$1.57	\$1.66	\$1.72	\$1.79	\$1.72	\$1.68	\$1.70
Washington, D.C.													
Retail	\$2.62	\$2.58	\$2.50	\$2.49	\$2.39	\$2.52	\$2.39	\$2.54	\$2.56	\$2.56	\$2.58	\$2.56	\$2.52
Cooperative	1.37	1.33	1.29	1.27	1.30	1.40	1.43	1.39	1.33	1.31	1.37	1.42	1.35
Difference	\$1.25	\$1.25	\$1.21	\$1.22	\$1.09	\$1.12	\$0.96	\$1.15	\$1.23	\$1.25	\$1.21	\$1.14	\$1.17

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made by using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

Source: AMS.

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

Table III.6: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, 1994

	1994												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Atlanta, Ga.													
Retail	\$1.98	\$1.98	\$1.98	\$1.98	\$2.02	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.04
Cooperative	1.44	1.42	1.41	1.41	1.43	1.45	1.29	1.27	1.27	1.30	1.33	1.35	1.36
Difference	\$0.54	\$0.56	\$0.57	\$0.57	\$0.59	\$0.63	\$0.79	\$0.81	\$0.81	\$0.78	\$0.75	\$0.73	\$0.68
Baltimore, Md.													
Retail	\$2.70	\$2.68	\$2.64	\$2.64	\$2.64	\$2.70	\$2.66	\$2.60	\$2.59	\$2.61	\$2.63	\$2.66	\$2.65
Cooperative	1.45	1.43	1.41	1.41	1.45	1.47	1.33	1.31	1.32	1.35	1.38	1.40	1.39
Difference	\$1.25	\$1.25	\$1.23	\$1.23	\$1.19	\$1.23	\$1.33	\$1.29	\$1.27	\$1.26	\$1.25	\$1.26	\$1.25
Boston, Mass.													
Retail	\$2.58	\$2.53	\$2.51	\$2.43	\$2.51	\$2.53	\$2.55	\$2.41	\$2.41	\$2.45	\$2.45	\$2.45	\$2.48
Cooperative	1.42	1.40	1.39	1.39	1.42	1.44	1.31	1.29	1.30	1.33	1.36	1.38	1.37
Difference	\$1.16	\$1.13	\$1.12	\$1.04	\$1.09	\$1.09	\$1.24	\$1.12	\$1.11	\$1.12	\$1.09	\$1.07	\$1.12
Carbondale, Ill.													
Retail	\$1.96	\$2.08	\$2.08	\$2.08	\$2.14	\$2.21	\$2.14	\$2.14	\$2.21	\$2.16	\$2.24	\$2.24	\$2.14
Cooperative	1.43	1.41	1.41	1.41	1.40	1.43	1.28	1.30	1.32	1.34	1.37	1.39	1.38
Difference	\$0.53	\$0.67	\$0.67	\$0.67	\$0.74	\$0.78	\$0.86	\$0.84	\$0.89	\$0.82	\$0.87	\$0.85	\$0.76
Chicago, Ill.													
Retail	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.76	\$2.72	\$2.69	\$2.66	\$2.66	\$2.66	\$2.69	\$2.72
Cooperative	1.48	1.45	1.43	1.43	1.46	1.47	1.36	1.25	1.26	1.30	1.32	1.35	1.38
Difference	\$1.28	\$1.31	\$1.33	\$1.33	\$1.30	\$1.29	\$1.36	\$1.44	\$1.40	\$1.36	\$1.34	\$1.34	\$1.34
Cincinnati, Ohio													
Retail	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.19	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.37
Cooperative	1.30	1.28	1.28	1.28	1.32	1.34	1.25	1.20	1.21	1.24	1.26	1.29	1.27
Difference	\$1.09	\$1.11	\$1.11	\$1.11	\$1.07	\$1.05	\$0.94	\$1.19	\$1.18	\$1.15	\$1.13	\$1.10	\$1.10
Cleveland, Ohio													
Retail	\$2.38	\$2.44	\$2.42	\$2.41	\$2.43	\$2.45	\$2.45	\$2.45	\$2.45	\$2.45	\$2.47	\$2.46	\$2.44
Cooperative	1.30	1.27	1.26	1.26	1.30	1.30	1.19	1.18	1.19	1.22	1.25	1.27	1.25
Difference	\$1.08	\$1.17	\$1.16	\$1.15	\$1.13	\$1.15	\$1.26	\$1.27	\$1.26	\$1.23	\$1.22	\$1.19	\$1.19
Dallas, Tex.													
Retail	\$2.32	\$2.22	\$2.25	\$2.25	\$2.25	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.32	\$2.32	\$2.28
Cooperative	1.40	1.38	1.37	1.37	1.38	1.40	1.27	1.25	1.27	1.29	1.32	1.34	1.34
Difference	\$0.92	\$0.84	\$0.88	\$0.88	\$0.87	\$0.88	\$1.01	\$1.03	\$1.01	\$0.99	\$1.00	\$0.98	\$0.94

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1994												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Denver, Colo.													
Retail	\$3.00	\$3.09	\$3.09	\$3.09	\$3.09	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.10
Cooperative	1.39	1.37	1.36	1.36	1.39	1.41	1.29	1.26	1.28	1.30	1.33	1.35	1.34
Difference	\$1.61	\$1.72	\$1.73	\$1.73	\$1.70	\$1.71	\$1.83	\$1.86	\$1.84	\$1.82	\$1.79	\$1.77	\$1.76
Detroit, Mich.													
Retail	\$2.29	\$2.29	\$2.29	\$2.32	\$2.36	\$2.36	\$2.36	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.35
Cooperative	1.34	1.32	1.31	1.31	1.34	1.36	1.27	1.21	1.23	1.25	1.28	1.30	1.29
Difference	\$0.95	\$0.97	\$0.98	\$1.01	\$1.02	\$1.00	\$1.09	\$1.18	\$1.16	\$1.14	\$1.11	\$1.09	\$1.06
Hartford, Conn.													
Retail	\$2.46	\$2.43	\$2.45	\$2.44	\$2.44	\$2.43	\$2.44	\$2.42	\$2.42	\$2.43	\$2.44	\$2.45	\$2.44
Cooperative	1.41	1.39	1.38	1.38	1.41	1.43	1.30	1.28	1.29	1.32	1.35	1.37	1.36
Difference	\$1.05	\$1.04	\$1.07	\$1.06	\$1.03	\$1.00	\$1.14	\$1.14	\$1.13	\$1.11	\$1.09	\$1.08	\$1.08
Houston, Tex.													
Retail	\$2.25	\$2.25	\$2.25	\$2.30	\$2.30	\$2.28	\$2.30	\$2.30	\$2.28	\$2.36	\$2.36	\$2.28	\$2.29
Cooperative	1.45	1.43	1.42	1.42	1.43	1.45	1.32	1.30	1.31	1.34	1.37	1.39	1.38
Difference	\$0.80	\$0.82	\$0.83	\$0.88	\$0.87	\$0.83	\$0.98	\$1.00	\$0.97	\$1.02	\$0.99	\$0.89	\$0.91
Indianapolis, Ind.													
Retail	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49
Cooperative	1.38	1.36	1.37	1.37	1.40	1.42	1.29	1.25	1.27	1.29	1.32	1.33	1.34
Difference	\$1.11	\$1.13	\$1.12	\$1.12	\$1.09	\$1.07	\$1.20	\$1.24	\$1.22	\$1.20	\$1.17	\$1.16	\$1.15
Kansas City, Mo.													
Retail	\$2.47	\$2.50	\$2.50	\$2.50	\$2.50	\$2.49	\$2.47	\$2.44	\$2.45	\$2.45	\$2.45	\$2.46	\$2.47
Cooperative	1.30	1.28	1.28	1.28	1.31	1.33	1.19	1.17	1.18	1.21	1.23	1.26	1.25
Difference	\$1.17	\$1.22	\$1.22	\$1.22	\$1.19	\$1.16	\$1.28	\$1.27	\$1.27	\$1.24	\$1.22	\$1.20	\$1.22
Louisville, Ky.													
Retail	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.09	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.06	\$2.03
Cooperative	1.33	1.31	1.30	1.30	1.34	1.35	1.18	1.16	1.18	1.20	1.25	1.27	1.27
Difference	\$0.69	\$0.71	\$0.72	\$0.72	\$0.68	\$0.74	\$0.84	\$0.86	\$0.84	\$0.82	\$0.77	\$0.79	\$0.76
Miami, Fla.													
Retail	\$2.68	\$2.68	\$2.68	\$2.68	\$2.68	\$2.68	\$2.56	\$2.56	\$2.56	\$2.56	\$2.56	\$2.62	\$2.63
Cooperative	1.58	1.56	1.55	1.56	1.59	1.60	1.44	1.42	1.43	1.45	1.48	1.50	1.51
Difference	\$1.10	\$1.12	\$1.13	\$1.12	\$1.09	\$1.08	\$1.12	\$1.14	\$1.13	\$1.11	\$1.08	\$1.12	\$1.11

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1994												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Milwaukee, Wis.													
Retail	\$2.67	\$2.66	\$2.66	\$2.66	\$2.68	\$2.68	\$2.61	\$2.52	\$2.52	\$2.56	\$2.56	\$2.57	\$2.61
Cooperative	1.47	1.44	1.42	1.42	1.46	1.46	1.35	1.25	1.26	1.29	1.31	1.34	1.37
Difference	\$1.20	\$1.22	\$1.24	\$1.24	\$1.22	\$1.22	\$1.26	\$1.27	\$1.26	\$1.27	\$1.25	\$1.23	\$1.24
Minneapolis, Minn.													
Retail	\$2.85	\$2.86	\$2.86	\$2.86	\$2.86	\$2.82	\$2.82	\$2.69	\$2.71	\$2.74	\$2.78	\$2.79	\$2.80
Cooperative	1.29	1.27	1.26	1.26	1.26	1.26	1.15	1.13	1.14	1.17	1.20	1.22	1.22
Difference	\$1.56	\$1.59	\$1.60	\$1.60	\$1.60	\$1.56	\$1.67	\$1.56	\$1.57	\$1.57	\$1.58	\$1.57	\$1.58
New Orleans, La.													
Retail	\$2.51	\$2.51	\$2.51	\$2.51	\$2.52	\$2.52	\$2.52	\$2.52	\$2.29	\$2.29	\$2.29	\$2.37	\$2.45
Cooperative	1.46	1.44	1.43	1.43	1.44	1.46	1.33	1.31	1.31	1.34	1.37	1.39	1.39
Difference	\$1.05	\$1.07	\$1.08	\$1.08	\$1.08	\$1.06	\$1.19	\$1.21	\$0.98	\$0.95	\$0.92	\$0.98	\$1.05
Oklahoma City, Okla.													
Retail	\$2.45	\$2.43	\$2.43	\$2.43	\$2.46	\$2.48	\$2.48	\$2.43	\$2.43	\$2.43	\$2.43	\$2.43	\$2.44
Cooperative	1.39	1.36	1.36	1.36	1.39	1.37	1.24	1.22	1.23	1.26	1.29	1.31	1.32
Difference	\$1.06	\$1.07	\$1.07	\$1.07	\$1.07	\$1.11	\$1.24	\$1.21	\$1.20	\$1.17	\$1.14	\$1.12	\$1.13
Omaha, Nebr.													
Retail	\$2.66	\$2.68	\$2.68	\$2.65	\$2.63	\$2.65	\$2.60	\$2.58	\$2.59	\$2.57	\$2.58	\$2.62	\$2.62
Cooperative	1.36	1.34	1.33	1.33	1.33	1.33	1.21	1.19	1.21	1.23	1.26	1.26	1.28
Difference	\$1.30	\$1.34	\$1.35	\$1.32	\$1.30	\$1.32	\$1.39	\$1.39	\$1.38	\$1.34	\$1.32	\$1.36	\$1.34
Philadelphia, Pa.													
Retail	\$2.43	\$2.44	\$2.45	\$2.55	\$2.51	\$2.59	\$2.52	\$2.53	\$2.48	\$2.63	\$2.64	\$2.63	\$2.53
Cooperative	1.45	1.43	1.42	1.42	1.45	1.47	1.34	1.32	1.33	1.36	1.39	1.41	1.40
Difference	\$0.98	\$1.01	\$1.03	\$1.13	\$1.06	\$1.12	\$1.18	\$1.21	\$1.15	\$1.27	\$1.25	\$1.22	\$1.14
Phoenix, Ariz.													
Retail	\$2.54	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.57	\$2.69	\$2.59
Cooperative	1.31	1.29	1.28	1.28	1.31	1.33	1.21	1.18	1.20	1.23	1.25	1.27	1.26
Difference	\$1.23	\$1.29	\$1.30	\$1.30	\$1.27	\$1.25	\$1.37	\$1.40	\$1.38	\$1.35	\$1.32	\$1.42	\$1.32
Pittsburgh, Pa.													
Retail	\$2.45	\$2.43	\$2.43	\$2.55	\$2.47	\$2.51	\$2.35	\$2.31	\$2.31	\$2.33	\$2.37	\$2.39	\$2.41
Cooperative	1.35	1.33	1.32	1.32	1.35	1.37	1.24	1.22	1.23	1.26	1.29	1.31	1.30
Difference	\$1.10	\$1.10	\$1.11	\$1.23	\$1.12	\$1.14	\$1.11	\$1.09	\$1.08	\$1.07	\$1.08	\$1.08	\$1.11

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1994												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
St. Louis, Mo.													
Retail	\$2.29	\$2.26	\$2.26	\$2.26	\$2.39	\$2.39	\$2.36	\$2.24	\$2.24	\$2.28	\$2.33	\$2.31	\$2.30
Cooperative	1.43	1.41	1.41	1.41	1.40	1.43	1.28	1.30	1.32	1.34	1.37	1.39	1.38
Difference	\$0.86	\$0.85	\$0.85	\$0.85	\$0.99	\$0.96	\$1.08	\$0.94	\$0.92	\$0.94	\$0.96	\$0.92	\$0.92
Salt Lake City, Utah													
Retail	\$2.22	\$2.22	\$2.22	\$2.22	\$2.22	\$2.22	\$2.22	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	\$2.21
Cooperative	1.27	1.25	1.24	1.24	1.27	1.29	1.17	1.14	1.16	1.18	1.21	1.23	1.22
Difference	\$0.95	\$0.97	\$0.98	\$0.98	\$0.95	\$0.93	\$1.05	\$1.06	\$1.04	\$1.02	\$0.99	\$0.97	\$0.99
Seattle, Wash.													
Retail	\$2.99	\$2.99	\$2.99	\$2.99	\$3.02	\$3.02	\$2.99	\$2.92	\$2.92	\$2.96	\$2.96	\$2.96	\$2.98
Cooperative	1.30	1.28	1.27	1.27	1.30	1.32	1.19	1.17	1.18	1.21	1.24	1.26	1.25
Difference	\$1.69	\$1.71	\$1.72	\$1.72	\$1.72	\$1.70	\$1.80	\$1.75	\$1.74	\$1.75	\$1.72	\$1.70	\$1.73
Washington, D.C.													
Retail	\$2.62	\$2.62	\$2.62	\$2.62	\$2.64	\$2.66	\$2.65	\$2.61	\$2.60	\$2.60	\$2.60	\$2.61	\$2.62
Cooperative	1.45	1.43	1.41	1.41	1.45	1.47	1.33	1.31	1.32	1.35	1.38	1.40	1.39
Difference	\$1.17	\$1.19	\$1.21	\$1.21	\$1.19	\$1.19	\$1.32	\$1.30	\$1.28	\$1.25	\$1.22	\$1.21	\$1.23

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made by using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

Source: AMS.

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

Table III.7: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, 1995

	1995												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Atlanta, Ga.													
Retail	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.08	\$2.09	\$2.08	\$2.09	\$2.09	\$2.15	\$2.15	\$2.09
Cooperative	1.31	1.27	1.24	1.28	1.29	1.22	1.22	1.25	1.24	1.29	1.33	1.36	1.28
Difference	\$0.77	\$0.81	\$0.84	\$0.80	\$0.79	\$0.86	\$0.87	\$0.83	\$0.85	\$0.80	\$0.82	\$0.79	\$0.82
Baltimore, Md.													
Retail	\$2.72	\$2.68	\$2.70	\$2.71	\$2.71	\$2.67	\$2.57	\$2.69	\$2.69	\$2.70	\$2.72	\$2.75	\$2.69
Cooperative	1.36	1.32	1.32	1.36	1.36	1.30	1.30	1.32	1.31	1.34	1.38	1.43	1.34
Difference	\$1.36	\$1.36	\$1.38	\$1.35	\$1.35	\$1.37	\$1.27	\$1.37	\$1.38	\$1.36	\$1.34	\$1.32	\$1.35
Boston, Mass.													
Retail	\$2.45	\$2.41	\$2.38	\$2.36	\$2.36	\$2.36	\$2.25	\$2.34	\$2.33	\$2.33	\$2.33	\$2.33	\$2.35
Cooperative	1.34	1.32	1.32	1.36	1.36	1.30	1.30	1.32	1.31	1.33	1.38	1.43	1.34
Difference	\$1.11	\$1.09	\$1.06	\$1.00	\$1.00	\$1.06	\$0.95	\$1.02	\$1.02	\$1.00	\$0.95	\$0.90	\$1.01
Carbondale, Ill.													
Retail	\$2.28	\$2.29	\$2.21	\$2.28	\$2.28	\$2.28	\$2.21	\$2.21	\$2.28	\$2.28	\$2.28	\$2.28	\$2.26
Cooperative	1.28	1.23	1.23	1.27	1.28	1.21	1.21	1.24	1.23	1.26	1.31	1.35	1.26
Difference	\$1.00	\$1.06	\$0.98	\$1.01	\$1.00	\$1.07	\$1.00	\$0.97	\$1.05	\$1.02	\$0.97	\$0.93	\$1.00
Chicago, Ill.													
Retail	\$2.69	\$2.69	\$2.69	\$2.69	\$2.69	\$2.69	\$2.69	\$2.66	\$2.66	\$2.66	\$2.66	\$2.69	\$2.68
Cooperative	1.30	1.27	1.26	1.30	1.31	1.26	1.25	1.22	1.22	1.24	1.29	1.34	1.27
Difference	\$1.39	\$1.42	\$1.43	\$1.39	\$1.38	\$1.43	\$1.44	\$1.44	\$1.44	\$1.42	\$1.37	\$1.35	\$1.41
Cincinnati, Ohio													
Retail	\$2.39	\$2.39	\$2.42	\$2.17	\$2.39	\$2.39	\$2.39	\$2.39	\$2.22	\$2.39	\$2.42	\$2.46	\$2.37
Cooperative	1.25	1.21	1.20	1.24	1.25	1.19	1.18	1.21	1.19	1.23	1.28	1.32	1.23
Difference	\$1.14	\$1.18	\$1.22	\$0.93	\$1.14	\$1.20	\$1.21	\$1.18	\$1.03	\$1.16	\$1.14	\$1.14	\$1.14
Cleveland, Ohio													
Retail	\$2.46	\$2.46	\$2.46	\$2.47	\$2.49	\$2.50	\$2.51	\$2.51	\$2.53	\$2.53	\$2.55	\$2.56	\$2.50
Cooperative	1.23	1.19	1.19	1.23	1.23	1.17	1.17	1.19	1.18	1.22	1.26	1.30	1.21
Difference	\$1.23	\$1.27	\$1.27	\$1.24	\$1.26	\$1.33	\$1.34	\$1.32	\$1.35	\$1.31	\$1.29	\$1.26	\$1.29
Dallas, Tex.													
Retail	\$2.27	\$2.27	\$2.27	\$2.27	\$2.27	\$2.31	\$2.28	\$2.28	\$2.28	\$2.28	\$2.25	\$2.36	\$2.28
Cooperative	1.30	1.27	1.26	1.30	1.31	1.24	1.24	1.27	1.25	1.28	1.33	1.37	1.29
Difference	\$0.97	\$1.00	\$1.01	\$0.97	\$0.96	\$1.07	\$1.04	\$1.01	\$1.03	\$1.00	\$0.92	\$0.99	\$1.00

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1995												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Denver, Colo.													
Retail	\$3.00	\$3.09	\$3.09	\$3.09	\$3.09	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.10
Cooperative	1.32	1.27	1.27	1.31	1.32	1.26	1.25	1.28	1.26	1.29	1.33	1.38	1.29
Difference	\$1.68	\$1.82	\$1.82	\$1.78	\$1.77	\$1.86	\$1.87	\$1.84	\$1.86	\$1.83	\$1.79	\$1.74	\$1.81
Detroit, Mich.													
Retail	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.19	\$2.37
Cooperative	1.26	1.22	1.21	1.24	1.24	1.19	1.18	1.21	1.20	1.22	1.26	1.31	1.23
Difference	\$1.13	\$1.17	\$1.18	\$1.15	\$1.15	\$1.20	\$1.21	\$1.18	\$1.19	\$1.17	\$1.13	\$0.88	\$1.14
Hartford, Conn.													
Retail	\$2.45	\$2.43	\$2.42	\$2.43	\$2.41	\$2.41	\$2.41	\$2.41	\$2.39	\$2.39	\$2.39	\$2.38	\$2.41
Cooperative	1.33	1.31	1.31	1.35	1.36	1.29	1.29	1.31	1.30	1.33	1.37	1.42	1.33
Difference	\$1.12	\$1.12	\$1.11	\$1.08	\$1.05	\$1.12	\$1.12	\$1.10	\$1.09	\$1.06	\$1.02	\$0.96	\$1.08
Houston, Tex.													
Retail	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39	\$2.46	\$2.46	\$2.52	\$2.52	\$2.42
Cooperative	1.35	1.31	1.31	1.34	1.36	1.29	1.29	1.31	1.30	1.33	1.37	1.42	1.33
Difference	\$1.04	\$1.08	\$1.08	\$1.05	\$1.03	\$1.10	\$1.10	\$1.08	\$1.16	\$1.13	\$1.15	\$1.10	\$1.09
Indianapolis, Ind.													
Retail	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.42	\$2.42	\$2.42	\$2.46	\$2.48	\$2.51	\$2.54	\$2.48
Cooperative	1.26	1.22	1.23	1.25	1.27	1.20	1.20	1.22	1.20	1.25	1.28	1.34	1.24
Difference	\$1.23	\$1.27	\$1.26	\$1.24	\$1.22	\$1.22	\$1.22	\$1.20	\$1.26	\$1.23	\$1.23	\$1.20	\$1.23
Kansas City, Mo.													
Retail	\$2.45	\$2.45	\$2.49	\$2.48	\$2.49	\$2.45	\$2.45	\$2.44	\$2.44	\$2.43	\$2.43	\$2.48	\$2.46
Cooperative	1.22	1.18	1.18	1.21	1.22	1.16	1.16	1.18	1.18	1.21	1.25	1.30	1.20
Difference	\$1.23	\$1.27	\$1.31	\$1.27	\$1.27	\$1.29	\$1.29	\$1.26	\$1.26	\$1.22	\$1.18	\$1.18	\$1.25
Louisville, Ky.													
Retail	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.09	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.06	\$2.03
Cooperative	1.24	1.19	1.19	1.23	1.24	1.18	1.17	1.20	1.18	1.21	1.25	1.30	1.21
Difference	\$0.78	\$0.83	\$0.83	\$0.79	\$0.78	\$0.91	\$0.85	\$0.82	\$0.84	\$0.81	\$0.77	\$0.76	\$0.81
Miami, Fla.													
Retail	\$2.60	\$2.59	\$2.59	\$2.62	\$2.62	\$2.62	\$2.62	\$2.62	\$2.62	\$2.62	\$2.72	\$2.77	\$2.63
Cooperative	1.46	1.42	1.42	1.45	1.46	1.46	1.46	1.49	1.45	1.49	1.54	1.57	1.47
Difference	\$1.14	\$1.17	\$1.17	\$1.17	\$1.16	\$1.16	\$1.16	\$1.13	\$1.17	\$1.13	\$1.18	\$1.20	\$1.16

(continued)

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

	1995												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Milwaukee, Wis.													
Retail	\$2.52	\$2.50	\$2.48	\$2.47	\$2.48	\$2.29	\$2.46	\$2.30	\$2.48	\$2.30	\$2.54	\$2.56	\$2.45
Cooperative	1.29	1.26	1.25	1.29	1.31	1.25	1.24	1.21	1.21	1.24	1.28	1.33	1.26
Difference	\$1.23	\$1.24	\$1.23	\$1.18	\$1.17	\$1.04	\$1.22	\$1.09	\$1.27	\$1.06	\$1.26	\$1.23	\$1.19
Minneapolis, Minn.													
Retail	\$2.75	\$2.74	\$2.72	\$2.76	\$2.77	\$2.75	\$2.75	\$2.77	\$2.77	\$2.80	\$2.83	\$2.83	\$2.77
Cooperative	1.17	1.13	1.13	1.17	1.18	1.11	1.11	1.14	1.13	1.16	1.21	1.25	1.16
Difference	\$1.58	\$1.61	\$1.59	\$1.59	\$1.59	\$1.64	\$1.64	\$1.63	\$1.64	\$1.64	\$1.62	\$1.58	\$1.61
New Orleans, La.													
Retail	\$2.32	\$2.20	\$2.20	\$2.27	\$2.27	\$2.31	\$2.20	\$2.20	\$2.20	\$2.30	\$2.32	\$2.32	\$2.26
Cooperative	1.35	1.31	1.31	1.34	1.35	1.29	1.27	1.30	1.28	1.34	1.38	1.40	1.33
Difference	\$0.97	\$0.89	\$0.89	\$0.93	\$0.92	\$1.02	\$0.93	\$0.90	\$0.92	\$0.96	\$0.94	\$0.92	\$0.93
Oklahoma City, Okla.													
Retail	\$2.26	\$2.32	\$2.24	\$2.28	\$2.32	\$2.32	\$2.24	\$2.21	\$2.28	\$2.28	\$2.31	\$2.31	\$2.28
Cooperative	1.27	1.23	1.23	1.27	1.28	1.21	1.21	1.23	1.22	1.25	1.29	1.34	1.25
Difference	\$0.99	\$1.09	\$1.01	\$1.01	\$1.04	\$1.11	\$1.03	\$0.98	\$1.06	\$1.03	\$1.02	\$0.97	\$1.03
Omaha, Nebr.													
Retail	\$2.61	\$2.56	\$2.54	\$2.57	\$2.57	\$2.54	\$2.49	\$2.55	\$2.58	\$2.59	\$2.63	\$2.67	\$2.58
Cooperative	1.22	1.18	1.18	1.22	1.22	1.16	1.16	1.18	1.18	1.21	1.25	1.30	1.21
Difference	\$1.39	\$1.38	\$1.36	\$1.35	\$1.35	\$1.38	\$1.33	\$1.37	\$1.40	\$1.38	\$1.38	\$1.37	\$1.37
Philadelphia, Pa.													
Retail	\$2.50	\$2.49	\$2.47	\$2.48	\$2.49	\$2.47	\$2.46	\$2.47	\$2.46	\$2.54	\$2.57	\$2.48	\$2.49
Cooperative	1.37	1.33	1.33	1.37	1.37	1.31	1.31	1.33	1.30	1.33	1.37	1.42	1.34
Difference	\$1.13	\$1.16	\$1.14	\$1.11	\$1.12	\$1.16	\$1.15	\$1.14	\$1.16	\$1.21	\$1.20	\$1.06	\$1.15
Phoenix, Ariz.													
Retail	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.58	\$2.45	\$2.31	\$2.33	\$2.38	\$2.61
Cooperative	1.24	1.20	1.19	1.23	1.24	1.18	1.17	1.20	1.18	1.21	1.26	1.30	1.22
Difference	\$1.51	\$1.55	\$1.56	\$1.52	\$1.51	\$1.57	\$1.58	\$1.38	\$1.27	\$1.10	\$1.07	\$1.08	\$1.39

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1995												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Pittsburgh, Pa.													
Retail	\$2.35	\$2.29	\$2.29	\$2.35	\$2.35	\$2.29	\$2.27	\$2.38	\$2.27	\$2.38	\$2.43	\$2.47	\$2.34
Cooperative	1.27	1.23	1.23	1.27	1.28	1.21	1.21	1.21	1.19	1.22	1.26	1.31	1.24
Difference	\$1.08	\$1.06	\$1.06	\$1.08	\$1.07	\$1.08	\$1.06	\$1.17	\$1.08	\$1.16	\$1.17	\$1.16	\$1.10
St. Louis, Mo.													
Retail	\$2.33	\$2.36	\$2.33	\$2.39	\$2.42	\$2.38	\$2.40	\$2.40	\$2.38	\$2.40	\$2.44	\$2.48	\$2.39
Cooperative	1.28	1.23	1.23	1.27	1.28	1.21	1.21	1.24	1.23	1.26	1.31	1.35	1.26
Difference	\$1.05	\$1.13	\$1.10	\$1.12	\$1.14	\$1.17	\$1.19	\$1.16	\$1.15	\$1.14	\$1.13	\$1.13	\$1.13
Salt Lake City, Utah													
Retail	\$2.20	\$2.20	\$2.23	\$2.26	\$2.26	\$2.08	\$2.08	\$2.08	\$2.06	\$2.06	\$2.06	\$2.06	\$2.14
Cooperative	1.20	1.15	1.15	1.19	1.20	1.14	1.13	1.16	1.14	1.17	1.21	1.26	1.18
Difference	\$1.00	\$1.05	\$1.08	\$1.07	\$1.06	\$0.94	\$0.95	\$0.92	\$0.92	\$0.89	\$0.85	\$0.80	\$0.96
Seattle, Wash.													
Retail	\$2.96	\$2.92	\$2.92	\$2.92	\$2.96	\$2.92	\$2.96	\$2.96	\$2.96	\$2.96	\$2.96	\$2.96	\$2.95
Cooperative	1.22	1.18	1.18	1.22	1.22	1.16	1.16	1.18	1.17	1.20	1.24	1.29	1.20
Difference	\$1.74	\$1.74	\$1.74	\$1.70	\$1.74	\$1.76	\$1.80	\$1.78	\$1.79	\$1.76	\$1.72	\$1.67	\$1.75
Washington, D.C.													
Retail	\$2.61	\$2.61	\$2.58	\$2.58	\$2.59	\$2.59	\$2.57	\$2.57	\$2.58	\$2.58	\$2.60	\$2.62	\$2.59
Cooperative	1.36	1.32	1.32	1.36	1.36	1.30	1.30	1.32	1.31	1.34	1.38	1.43	1.34
Difference	\$1.25	\$1.29	\$1.26	\$1.22	\$1.23	\$1.29	\$1.27	\$1.25	\$1.27	\$1.24	\$1.22	\$1.19	\$1.25

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made by using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

Source: AMS.

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

Table III.8: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, 1996

	1996												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Atlanta, Ga.													
Retail	\$2.18	\$2.18	\$2.18	\$2.18	\$2.26	\$2.36	\$2.42	\$2.42	\$2.52	\$2.52	\$2.52	\$2.56	\$2.36
Cooperative	1.40	1.40	1.39	1.38	1.39	1.51	1.58	1.61	1.66	1.70	1.70	1.59	1.53
Difference	\$0.78	\$0.78	\$0.79	\$0.80	\$0.87	\$0.85	\$0.84	\$0.81	\$0.86	\$0.82	\$0.82	\$0.97	\$0.83
Baltimore, Md.													
Retail	\$2.80	\$2.79	\$2.82	\$2.79	\$2.76	\$2.79	\$2.85	\$2.83	\$2.85	\$2.88	\$2.88	\$2.94	\$2.83
Cooperative	1.43	1.44	1.42	1.41	1.42	1.45	1.51	1.52	1.57	1.61	1.67	1.57	1.50
Difference	\$1.37	\$1.35	\$1.40	\$1.38	\$1.34	\$1.34	\$1.34	\$1.31	\$1.28	\$1.27	\$1.21	\$1.37	\$1.33
Boston, Mass.													
Retail	\$2.37	\$2.38	\$2.41	\$2.40	\$2.39	\$2.41	\$2.43	\$2.38	\$2.39	\$2.43	\$2.45	\$2.41	\$2.40
Cooperative	1.45	1.45	1.44	1.42	1.43	1.47	1.53	1.54	1.59	1.63	1.66	1.59	1.52
Difference	\$0.92	\$0.93	\$0.97	\$0.98	\$0.96	\$0.94	\$0.90	\$0.84	\$0.80	\$0.80	\$0.79	\$0.82	\$0.89
Carbondale, Ill.													
Retail	\$2.40	\$2.28	\$2.34	\$2.31	\$2.31	\$2.34	\$2.41	\$2.41	\$2.44	\$2.48	\$2.51	\$2.64	\$2.41
Cooperative	1.37	1.38	1.36	1.36	1.37	1.41	1.46	1.48	1.54	1.60	1.64	1.55	1.46
Difference	\$1.03	\$0.90	\$0.98	\$0.95	\$0.94	\$0.93	\$0.95	\$0.93	\$0.90	\$0.88	\$0.87	\$1.09	\$0.94
Chicago, Ill.													
Retail	\$2.69	\$2.69	\$2.69	\$2.76	\$2.76	\$2.82	\$2.89	\$2.89	\$2.86	\$2.89	\$2.96	\$2.99	\$2.82
Cooperative	1.37	1.37	1.35	1.34	1.35	1.39	1.45	1.46	1.52	1.59	1.62	1.54	1.45
Difference	\$1.32	\$1.32	\$1.34	\$1.42	\$1.41	\$1.43	\$1.44	\$1.43	\$1.34	\$1.30	\$1.34	\$1.45	\$1.38
Cincinnati, Ohio													
Retail	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.56	\$2.61	\$2.59	\$2.59	\$2.59	\$2.59	\$2.66	\$2.55
Cooperative	1.34	1.34	1.33	1.32	1.33	1.40	1.46	1.47	1.53	1.57	1.61	1.50	1.43
Difference	\$1.15	\$1.15	\$1.16	\$1.17	\$1.16	\$1.16	\$1.15	\$1.12	\$1.06	\$1.02	\$0.98	\$1.16	\$1.12
Cleveland, Ohio													
Retail	\$2.21	\$2.22	\$2.23	\$2.19	\$2.19	\$2.22	\$2.30	\$2.33	\$2.32	\$2.32	\$2.35	\$2.44	\$2.28
Cooperative	1.32	1.33	1.31	1.30	1.31	1.38	1.42	1.45	1.51	1.55	1.59	1.48	1.41
Difference	\$0.89	\$0.89	\$0.92	\$0.89	\$0.88	\$0.84	\$0.88	\$0.88	\$0.81	\$0.77	\$0.76	\$0.96	\$0.87
Dallas, Tex.													
Retail	\$2.39	\$2.28	\$2.28	\$2.28	\$2.32	\$2.54	\$2.54	\$2.54	\$2.56	\$2.56	\$2.56	\$2.59	\$2.45
Cooperative	1.40	1.40	1.38	1.37	1.38	1.50	1.51	1.52	1.56	1.60	1.64	1.53	1.48
Difference	\$0.99	\$0.88	\$0.90	\$0.91	\$0.94	\$1.04	\$1.03	\$1.02	\$1.00	\$0.96	\$0.92	\$1.06	\$0.97

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1996												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Denver, Colo.													
Retail	\$3.16	\$3.16	\$3.16	\$2.91	\$2.72	\$2.72	\$2.66	\$2.66	\$2.66	\$2.66	\$2.86	\$2.86	\$2.85
Cooperative	1.40	1.41	1.39	1.38	1.39	1.42	1.48	1.44	1.49	1.53	1.57	1.46	1.45
Difference	\$1.76	\$1.75	\$1.77	\$1.53	\$1.33	\$1.30	\$1.18	\$1.22	\$1.17	\$1.13	\$1.29	\$1.40	\$1.40
Detroit, Mich.													
Retail	\$2.23	\$2.26	\$2.29	\$2.31	\$2.31	\$2.44	\$2.44	\$2.44	\$2.44	\$2.52	\$2.49	\$2.56	\$2.39
Cooperative	1.34	1.34	1.33	1.31	1.32	1.35	1.41	1.43	1.49	1.52	1.57	1.47	1.41
Difference	\$0.89	\$0.92	\$0.96	\$1.00	\$0.99	\$1.09	\$1.03	\$1.01	\$0.95	\$1.00	\$0.92	\$1.09	\$0.99
Hartford, Conn.													
Retail	\$2.38	\$2.40	\$2.41	\$2.40	\$2.40	\$2.42	\$2.44	\$2.46	\$2.45	\$2.46	\$2.50	\$2.50	\$2.44
Cooperative	1.44	1.44	1.43	1.42	1.42	1.46	1.52	1.53	1.58	1.62	1.65	1.58	1.51
Difference	\$0.94	\$0.96	\$0.98	\$0.98	\$0.98	\$0.96	\$0.92	\$0.93	\$0.87	\$0.84	\$0.85	\$0.92	\$0.93
Houston, Tex.													
Retail	\$2.56	\$2.62	\$2.49	\$2.49	\$2.49	\$2.62	\$2.59	\$2.59	\$2.59	\$2.59	\$2.62	\$2.62	\$2.57
Cooperative	1.44	1.45	1.43	1.42	1.42	1.54	1.56	1.57	1.61	1.65	1.69	1.58	1.53
Difference	\$1.12	\$1.17	\$1.06	\$1.07	\$1.07	\$1.08	\$1.03	\$1.02	\$0.98	\$0.94	\$0.93	\$1.04	\$1.04
Indianapolis, Ind.													
Retail	\$2.52	\$2.59	\$2.56	\$2.59	\$2.56	\$2.62	\$2.68	\$2.72	\$2.76	\$2.79	\$2.89	\$2.89	\$2.68
Cooperative	1.36	1.36	1.35	1.33	1.36	1.39	1.45	1.46	1.51	1.56	1.60	1.49	1.43
Difference	\$1.16	\$1.23	\$1.21	\$1.26	\$1.20	\$1.23	\$1.23	\$1.26	\$1.25	\$1.23	\$1.29	\$1.40	\$1.25
Kansas City, Mo.													
Retail	\$2.49	\$2.51	\$2.52	\$2.52	\$2.53	\$2.61	\$2.63	\$2.67	\$2.69	\$2.78	\$2.85	\$2.85	\$2.64
Cooperative	1.32	1.32	1.34	1.33	1.35	1.39	1.44	1.46	1.51	1.54	1.59	1.49	1.42
Difference	\$1.17	\$1.19	\$1.18	\$1.19	\$1.18	\$1.22	\$1.19	\$1.21	\$1.18	\$1.24	\$1.26	\$1.36	\$1.21
Louisville, Ky.													
Retail	\$2.29	\$2.29	\$2.29	\$2.29	\$2.31	\$2.32	\$2.39	\$2.39	\$2.46	\$2.62	\$2.66	\$2.66	\$2.41
Cooperative	1.32	1.33	1.32	1.31	1.32	1.48	1.54	1.47	1.51	1.55	1.58	1.47	1.43
Difference	\$0.97	\$0.96	\$0.97	\$0.98	\$0.99	\$0.84	\$0.85	\$0.92	\$0.95	\$1.07	\$1.08	\$1.19	\$0.98
Miami, Fla.													
Retail	\$2.80	\$2.81	\$2.84	\$2.85	\$2.85	\$3.04	\$3.06	\$3.04	\$3.06	\$3.10	\$3.10	\$3.10	\$2.97
Cooperative	1.60	1.60	1.58	1.57	1.58	1.70	1.76	1.82	1.86	1.90	1.90	1.83	1.72
Difference	\$1.20	\$1.21	\$1.26	\$1.28	\$1.27	\$1.34	\$1.30	\$1.22	\$1.20	\$1.20	\$1.20	\$1.27	\$1.25

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1996												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Milwaukee, Wis.													
Retail	\$2.57	\$2.51	\$2.59	\$2.32	\$2.60	\$2.62	\$2.67	\$2.61	\$2.66	\$2.74	\$2.69	\$2.68	\$2.61
Cooperative	1.36	1.36	1.35	1.34	1.35	1.38	1.44	1.45	1.51	1.58	1.61	1.53	1.44
Difference	\$1.21	\$1.15	\$1.24	\$0.98	\$1.25	\$1.24	\$1.23	\$1.16	\$1.15	\$1.16	\$1.08	\$1.15	\$1.17
Minneapolis, Minn.													
Retail	\$2.88	\$2.90	\$2.90	\$2.93	\$2.94	\$2.96	\$2.92	\$2.99	\$3.01	\$2.98	\$2.98	\$2.95	\$2.95
Cooperative	1.27	1.28	1.28	1.27	1.29	1.34	1.39	1.41	1.47	1.51	1.56	1.45	1.38
Difference	\$1.61	\$1.62	\$1.62	\$1.66	\$1.65	\$1.62	\$1.53	\$1.58	\$1.54	\$1.47	\$1.42	\$1.50	\$1.57
New Orleans, La.													
Retail	\$2.32	\$2.37	\$2.37	\$2.37	\$2.38	\$2.49	\$2.65	\$2.69	\$2.69	\$2.69	\$2.71	\$2.58	\$2.53
Cooperative	1.45	1.45	1.42	1.40	1.42	1.54	1.52	1.55	1.60	1.65	1.65	1.57	1.52
Difference	\$0.87	\$0.92	\$0.95	\$0.97	\$0.96	\$0.95	\$1.13	\$1.14	\$1.09	\$1.04	\$1.06	\$1.01	\$1.01
Oklahoma City, Okla.													
Retail	\$2.31	\$2.31	\$2.31	\$2.34	\$2.34	\$2.39	\$2.49	\$2.54	\$2.56	\$2.56	\$2.58	\$2.64	\$2.45
Cooperative	1.36	1.36	1.35	1.34	1.34	1.47	1.48	1.49	1.54	1.57	1.61	1.51	1.45
Difference	\$0.95	\$0.95	\$0.96	\$1.00	\$1.00	\$0.92	\$1.01	\$1.05	\$1.02	\$0.99	\$0.97	\$1.13	\$1.00
Omaha, Nebr.													
Retail	\$2.70	\$2.70	\$2.66	\$2.67	\$2.68	\$2.72	\$2.75	\$2.75	\$2.80	\$2.83	\$2.85	\$2.89	\$2.75
Cooperative	1.32	1.33	1.33	1.31	1.34	1.37	1.43	1.44	1.49	1.53	1.58	1.47	1.41
Difference	\$1.38	\$1.37	\$1.33	\$1.36	\$1.34	\$1.35	\$1.32	\$1.31	\$1.31	\$1.30	\$1.27	\$1.42	\$1.34
Philadelphia, Pa.													
Retail	\$2.49	\$2.49	\$2.53	\$2.52	\$2.52	\$2.52	\$2.54	\$2.56	\$2.60	\$2.65	\$2.69	\$2.69	\$2.57
Cooperative	1.43	1.44	1.42	1.41	1.42	1.45	1.51	1.52	1.57	1.61	1.67	1.57	1.50
Difference	\$1.06	\$1.05	\$1.11	\$1.11	\$1.10	\$1.07	\$1.03	\$1.04	\$1.03	\$1.04	\$1.02	\$1.12	\$1.06
Phoenix, Ariz.													
Retail	\$2.41	\$2.41	\$2.41	\$2.41	\$2.41	\$2.45	\$2.48	\$2.48	\$2.48	\$2.48	\$2.45	\$2.45	\$2.44
Cooperative	1.32	1.33	1.31	1.30	1.31	1.34	1.40	1.41	1.46	1.50	1.54	1.43	1.39
Difference	\$1.09	\$1.08	\$1.10	\$1.11	\$1.10	\$1.11	\$1.08	\$1.07	\$1.02	\$0.98	\$0.91	\$1.02	\$1.06
Pittsburgh, Pa.													
Retail	\$2.48	\$2.50	\$2.48	\$2.48	\$2.48	\$2.53	\$2.58	\$2.59	\$2.63	\$2.68	\$2.74	\$2.69	\$2.57
Cooperative	1.32	1.33	1.31	1.30	1.31	1.34	1.40	1.41	1.46	1.50	1.56	1.46	1.39
Difference	\$1.16	\$1.17	\$1.17	\$1.18	\$1.17	\$1.19	\$1.18	\$1.18	\$1.17	\$1.18	\$1.18	\$1.23	\$1.18

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

	1996												
City	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
St. Louis, Mo.													
Retail	\$2.53	\$2.58	\$2.58	\$2.58	\$2.58	\$2.69	\$2.72	\$2.72	\$2.78	\$2.88	\$2.94	\$2.94	\$2.71
Cooperative	1.37	1.38	1.36	1.36	1.37	1.41	1.46	1.48	1.54	1.60	1.64	1.55	1.46
Difference	\$1.16	\$1.20	\$1.22	\$1.22	\$1.21	\$1.28	\$1.26	\$1.24	\$1.24	\$1.28	\$1.30	\$1.39	\$1.25
Salt Lake City, Utah													
Retail	\$2.16	\$2.16	\$2.16	\$2.18	\$2.23	\$2.28	\$2.34	\$2.40	\$2.40	\$2.36	\$2.42	\$2.36	\$2.29
Cooperative	1.28	1.29	1.27	1.26	1.27	1.30	1.36	1.37	1.42	1.46	1.50	1.39	1.35
Difference	\$0.88	\$0.87	\$0.89	\$0.92	\$0.96	\$0.98	\$0.98	\$1.03	\$0.98	\$0.90	\$0.92	\$0.97	\$0.94
Seattle, Wash.													
Retail	\$2.99	\$3.09	\$3.09	\$3.16	\$3.16	\$3.19	\$3.26	\$3.29	\$3.32	\$3.32	\$3.39	\$3.32	\$3.22
Cooperative	1.31	1.31	1.30	1.28	1.28	1.31	1.37	1.39	1.44	1.47	1.51	1.40	1.37
Difference	\$1.68	\$1.78	\$1.79	\$1.88	\$1.88	\$1.88	\$1.89	\$1.90	\$1.88	\$1.85	\$1.88	\$1.92	\$1.85
Washington, D.C.													
Retail	\$2.56	\$2.60	\$2.60	\$2.59	\$2.60	\$2.64	\$2.64	\$2.65	\$2.65	\$2.66	\$2.70	\$2.72	\$2.63
Cooperative	1.43	1.44	1.42	1.41	1.42	1.45	1.51	1.52	1.57	1.61	1.67	1.57	1.50
Difference	\$1.13	\$1.16	\$1.18	\$1.18	\$1.18	\$1.19	\$1.13	\$1.13	\$1.08	\$1.05	\$1.03	\$1.15	\$1.13

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made by using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

Source: AMS.

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

Table III.9: Comparison of Retail Milk Prices Per Gallon and Announced Cooperative Class I Milk Prices Per Gallon, January Through September 1997

City	1997									
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Average
Atlanta, Ga.										
Retail	\$2.59	\$2.52	\$2.52	\$2.56	\$2.56	\$2.56	\$2.56	\$2.56	\$2.59	\$2.56
Cooperative	1.44	1.42	1.42	1.41	1.41	1.32	1.26	1.28	1.29	1.36
Difference	\$1.15	\$1.10	\$1.10	\$1.15	\$1.15	\$1.24	\$1.30	\$1.28	\$1.30	\$1.20
Baltimore, Md.										
Retail	\$2.87	\$2.78	\$2.69	\$2.69	\$2.69	\$2.61	\$2.59	\$2.59	\$2.59	\$2.68
Cooperative	1.35	1.33	1.38	1.42	1.42	1.33	1.27	1.27	1.28	1.34
Difference	\$1.52	\$1.45	\$1.31	\$1.27	\$1.27	\$1.28	\$1.32	\$1.32	\$1.31	\$1.34
Boston, Mass.										
Retail	\$2.42	\$2.45	\$2.45	\$2.45	\$2.45	\$2.44	\$2.64	\$2.63	\$2.63	\$2.51
Cooperative	1.37	1.35	1.40	1.45	1.45	1.36	1.55 ^a	1.54 ^a	1.52 ^a	1.44
Difference	\$1.05	\$1.10	\$1.05	\$1.00	\$1.00	\$1.08	\$1.09	\$1.09	\$1.11	\$1.06
Carbondale, Ill.										
Retail	\$2.61	\$2.49	\$2.49	\$2.49	\$2.49	\$2.42	\$2.42	\$2.39	\$2.39	\$2.47
Cooperative	1.38	1.36	1.38	1.43	1.43	1.34	1.27	1.27	1.27	1.35
Difference	\$1.23	\$1.13	\$1.11	\$1.06	\$1.06	\$1.08	\$1.15	\$1.12	\$1.12	\$1.12
Chicago, Ill.										
Retail	\$2.92	\$2.86	\$2.82	\$2.82	\$2.82	\$2.82	\$2.86	\$2.86	\$2.86	\$2.85
Cooperative	1.33	1.30	1.32	1.38	1.37	1.29	1.23	1.23	1.23	1.30
Difference	\$1.59	\$1.56	\$1.50	\$1.44	\$1.45	\$1.53	\$1.63	\$1.63	\$1.63	\$1.55
Cincinnati, Ohio										
Retail	\$2.62	\$2.59	\$1.99	\$1.89	\$1.76	\$1.32	\$1.32	\$1.32	\$1.52	\$1.81
Cooperative	1.31	1.29	1.34	1.37	1.36	1.30	1.23	1.27	1.28	1.30
Difference	\$1.31	\$1.30	\$0.65	\$0.52	\$0.40	\$0.02	\$0.09	\$0.05	\$0.24	\$0.51
Cleveland, Ohio										
Retail	\$2.43	\$2.43	\$2.43	\$2.53	\$2.53	\$2.53	\$2.53	\$2.53	\$2.60	\$2.50
Cooperative	1.28	1.26	1.31	1.35	1.35	1.28	1.22	1.26	1.27	1.29
Difference	\$1.15	\$1.17	\$1.12	\$1.18	\$1.18	\$1.25	\$1.31	\$1.27	\$1.33	\$1.22
Dallas, Tex.										
Retail	\$2.59	\$2.59	\$2.59	\$2.59	\$2.62	\$2.62	\$2.62	\$2.41	\$2.48	\$2.57
Cooperative	1.35	1.32	1.35	1.36	1.37	1.28	1.21	1.22	1.23	1.30
Difference	\$1.24	\$1.27	\$1.24	\$1.23	\$1.25	\$1.34	\$1.41	\$1.19	\$1.25	\$1.27

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

City	1997									
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Average
Denver, Colo.										
Retail	\$2.82	\$2.82	\$2.82	\$2.86	\$2.86	\$2.86	\$2.86	\$2.86	\$2.92	\$2.85
Cooperative	1.25	1.22	1.27	1.32	1.32	1.23	1.17	1.17	1.18	1.24
Difference	\$1.57	\$1.60	\$1.55	\$1.54	\$1.54	\$1.63	\$1.69	\$1.69	\$1.74	\$1.62
Detroit, Mich.										
Retail	\$2.56	\$2.59	\$2.59	\$2.59	\$2.59	\$2.59	\$2.59	\$2.65	\$2.65	\$2.60
Cooperative	1.32	1.27	1.27	1.32	1.32	1.25	1.22	1.21	1.21	1.27
Difference	\$1.24	\$1.32	\$1.32	\$1.27	\$1.27	\$1.34	\$1.37	\$1.44	\$1.44	\$1.33
Hartford, Conn.										
Retail	\$2.51	\$2.49	\$2.49	\$2.49	\$2.49	\$2.49	\$2.68	\$2.68	\$2.68	\$2.56
Cooperative	1.37	1.34	1.39	1.44	1.44	1.35	1.55 ^a	1.53 ^a	1.51 ^a	1.44
Difference	\$1.14	\$1.15	\$1.10	\$1.05	\$1.05	\$1.14	\$1.13	\$1.15	\$1.17	\$1.12
Houston, Tex.										
Retail	\$2.59	\$2.56	\$2.49	\$2.36	\$2.52	\$2.52	\$2.52	\$2.52	\$2.52	\$2.51
Cooperative	1.39	1.37	1.39	1.41	1.41	1.32	1.26	1.26	1.27	1.34
Difference	\$1.20	\$1.19	\$1.10	\$0.95	\$1.11	\$1.20	\$1.26	\$1.26	\$1.25	\$1.17
Indianapolis, Ind.										
Retail	\$2.79	\$2.82	\$2.79	\$2.79	\$2.79	\$2.79	\$2.76	\$2.42	2.79	\$2.75
Cooperative	1.31	1.29	1.34	1.38	1.38	1.29	1.24	1.25	1.26	1.30
Difference	\$1.48	\$1.53	\$1.45	\$1.41	\$1.41	\$1.50	\$1.52	\$1.17	\$1.53	\$1.45
Kansas City, Mo.										
Retail	\$2.85	\$2.81	\$2.77	\$2.77	\$2.76	\$2.71	\$2.65	\$2.61	\$2.60	\$2.73
Cooperative	1.32	1.29	1.32	1.36	1.36	1.27	1.21	1.23	1.23	1.29
Difference	\$1.53	\$1.52	\$1.45	\$1.41	\$1.40	\$1.44	\$1.44	\$1.38	\$1.37	\$1.44
Louisville, Ky.										
Retail	\$2.69	\$2.59	\$2.52	\$2.56	\$2.56	\$2.46	\$2.32	\$2.32	\$2.19	\$2.47
Cooperative	1.29	1.26	1.32	1.36	1.36	1.27	1.18	1.19	1.20	1.27
Difference	\$1.40	\$1.33	\$1.20	\$1.20	\$1.20	\$1.19	\$1.14	\$1.13	\$0.99	\$1.20
Miami, Fla.										
Retail	\$3.03	\$2.96	\$2.96	\$2.94	\$2.92	\$2.92	\$2.92	\$2.92	\$2.92	\$2.94
Cooperative	1.66	1.66	1.63	1.63	1.60	1.60	1.52	1.52	1.56	1.60
Difference	\$1.37	\$1.30	\$1.33	\$1.31	\$1.32	\$1.32	\$1.40	\$1.40	\$1.36	\$1.35

(continued)

**Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997**

City	1997									
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Average
Milwaukee, Wis.										
Retail	\$2.68	\$2.55	\$2.65	\$2.61	\$2.61	\$2.58	\$2.58	\$2.58	\$2.58	\$2.60
Cooperative	1.32	1.30	1.31	1.37	1.36	1.29	1.22	1.22	1.22	1.29
Difference	\$1.36	\$1.25	\$1.34	\$1.24	\$1.25	\$1.29	\$1.36	\$1.36	\$1.36	\$1.31
Minneapolis, Minn.										
Retail	\$2.95	\$2.92	\$2.92	\$2.95	\$2.95	\$2.90	\$2.84	\$2.86	\$2.87	\$2.91
Cooperative	1.28	1.26	1.26	1.30	1.30	1.21	1.15	1.17	1.17	1.23
Difference	\$1.67	\$1.66	\$1.66	\$1.65	\$1.65	\$1.69	\$1.69	\$1.69	\$1.70	\$1.67
New Orleans, La.										
Retail	\$2.61	\$2.63	\$2.61	\$2.61	\$2.61	\$2.63	\$2.63	\$2.63	\$2.63	\$2.62
Cooperative	1.42	1.41	1.42	1.42	1.43	1.32	1.26	1.26	1.27	1.36
Difference	\$1.19	\$1.22	\$1.19	\$1.19	\$1.18	\$1.31	\$1.37	\$1.37	\$1.36	\$1.27
Oklahoma City, Okla.										
Retail	\$2.36	\$2.54	\$2.58	\$2.62	\$2.57	\$2.62	\$2.55	\$2.55	\$2.49	\$2.54
Cooperative	1.31	1.29	1.34	1.33	1.33	1.24	1.20	1.18	1.19	1.27
Difference	\$1.05	\$1.25	\$1.24	\$1.29	\$1.24	\$1.38	\$1.35	\$1.37	\$1.30	\$1.27
Omaha, Nebr.										
Retail	\$2.89	\$2.69	\$2.62	\$2.64	\$2.64	\$2.62	\$2.57	\$2.50	\$2.51	\$2.63
Cooperative	1.30	1.28	1.30	1.35	1.35	1.26	1.19	1.21	1.21	1.27
Difference	\$1.59	\$1.41	\$1.32	\$1.29	\$1.29	\$1.36	\$1.38	\$1.29	\$1.30	\$1.36
Philadelphia, Pa.										
Retail	\$2.59	\$2.47	\$2.47	\$2.54	\$2.53	\$2.51	\$2.46	\$2.39	\$2.41	\$2.49
Cooperative	1.35	1.33	1.38	1.42	1.43	1.34	1.27	1.28	1.29	1.34
Difference	\$1.24	\$1.14	\$1.09	\$1.12	\$1.10	\$1.17	\$1.19	\$1.11	\$1.12	\$1.14
Phoenix, Ariz.										
Retail	\$2.79	\$2.22	\$2.22	\$2.49	\$2.46	\$2.42	\$2.42	\$2.42	\$2.47	\$2.43
Cooperative	1.21	1.19	1.24	1.29	1.29	1.20	1.14	1.14	1.15	1.21
Difference	\$1.58	\$1.03	\$0.98	\$1.20	\$1.17	\$1.22	\$1.28	\$1.28	\$1.32	\$1.23
Pittsburgh, Pa.										
Retail	\$2.48	\$2.46	\$2.52	\$2.55	\$2.55	\$2.45	\$2.40	\$2.41	\$2.43	\$2.47
Cooperative	1.24	1.22	1.27	1.31	1.29	1.22	1.16	1.16	1.17	1.23
Difference	\$1.24	\$1.24	\$1.25	\$1.24	\$1.26	\$1.23	\$1.24	\$1.25	\$1.26	\$1.24

(continued)

Appendix III
Prices Announced by Dairy Cooperatives
and Retail Prices for Milk in Selected Cities,
January 1991 Through September 1997

City	1997									
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Average
St. Louis, Mo.										
Retail	\$2.91	\$2.71	\$2.72	\$2.69	\$2.69	\$2.62	\$2.62	\$2.72	\$2.69	\$2.71
Cooperative	1.38	1.36	1.38	1.43	1.43	1.34	1.27	1.27	1.27	1.35
Difference	\$1.53	\$1.35	\$1.34	\$1.26	\$1.26	\$1.28	\$1.35	\$1.45	\$1.42	\$1.36
Salt Lake City, Utah										
Retail	\$2.56	\$2.46	\$2.46	\$2.39	\$2.42	\$2.42	\$2.42	\$2.42	\$2.42	\$2.44
Cooperative	1.17	1.15	1.20	1.25	1.25	1.16	1.10	1.10	1.11	1.17
Difference	\$1.39	\$1.31	\$1.26	\$1.14	\$1.17	\$1.26	\$1.32	\$1.32	\$1.31	\$1.28
Seattle, Wash.										
Retail	\$3.16	\$3.16	\$3.16	\$3.19	\$3.16	\$3.16	\$3.12	\$3.12	\$3.12	\$3.15
Cooperative	1.19	1.16	1.22	1.26	1.26	1.17	1.12	1.12	1.13	1.18
Difference	\$1.97	\$2.00	\$1.94	\$1.93	\$1.90	\$1.99	\$2.00	\$2.00	\$1.99	\$1.97
Washington, D.C.										
Retail	\$2.66	\$2.59	\$2.58	\$2.59	\$2.59	\$2.61	\$2.58	\$2.52	\$2.51	\$2.58
Cooperative	1.35	1.33	1.38	1.42	1.42	1.33	1.27	1.27	1.28	1.34
Difference	\$1.31	\$1.26	\$1.20	\$1.17	\$1.17	\$1.28	\$1.31	\$1.25	\$1.23	\$1.24

Legend

CWT = hundredweight

Note: Cooperative prices per gallon of milk were calculated by dividing the prices per hundredweight of milk by the number of gallons in a hundredweight. Calculations of price differences and averages were made using the unrounded results of the calculations for the cooperative price per gallon. In this table, cooperative prices, price differences, and their averages have been rounded to two decimal places. Calculations of the average prices using the rounded monthly prices shown in this table may result in slightly different averages.

^aThe cooperative prices for Boston and Hartford for July, August, and September include the obligation for the Northeast Dairy Compact. The Northeast Dairy Compact established a Class I price level of \$16.94/CWT for July through December 1997. The Compact obligation was \$16.94 less the federal order price at zone 1 (Boston). Compact obligations are over and above the cooperatives' announced price levels. Therefore, the effective Class I price levels were \$3.00 higher in July, \$2.96 higher in August, and \$2.84 higher in September per hundredweight than the announced cooperative prices. For example, for Boston, the effective Class I price in July was \$15.07 plus \$3.00 = \$18.07/CWT. This is equivalent to \$1.55 per gallon.

Source: AMS.

Comparison of Retail Prices and Price Spreads for USDA's Market Basket of Foods, 1990 Through 1996

This appendix compares changes in (1) retail prices and (2) farm-to-retail price spreads for a market basket of dairy products and eight other food groups for the period from 1990 through 1996. The market basket of foods contains the average quantities of food originating primarily on U.S. farms that are purchased for consumption at home. The market basket excludes seafood and nonalcoholic beverages. For our analysis we relied on information that was reported by the U.S. Department of Agriculture's (USDA) Economic Research Service (ERS). ERS uses information collected by the Bureau of Labor Statistics on farm and retail prices for a market basket of foods. ERS reports on the average change in retail prices for the foods in its market basket as well as changes in the farm to retail price spreads for these foods.

Changes in Retail Prices for Food Groups in the Market Basket

ERS reported that from 1990 through 1996, dairy as well as other food products in the market basket experienced retail price increases. During this period, retail prices for dairy products increased by 12.3 percent. Retail prices for processed fruits and vegetables, meat, and fats and oils rose less than they did for dairy products, and increases ranged from 8.8 to 11.3 percent. On the other hand, retail prices for poultry, eggs, cereal and bakery products, fresh vegetables, and fresh fruits increased more than they did for dairy products, and increases ranged from 14.5 to 39.3 percent. During this period of time the general price level for the whole economy grew by 17.7 percent. Table IV.1 shows the annual change, as a percent, in retail prices for dairy and the eight other food groups in USDA's market basket for the period from 1990 through 1996.

Appendix IV
Comparison of Retail Prices and Price
Spreads for USDA's Market Basket of
Foods, 1990 Through 1996

Table IV.1: Annual Change in Retail Prices for Various Food Groups Shown in Percentages, From 1990 Through 1996

Food group	1991	1992	1993	1994	1995	1996^a	Net change, 1990-96
Dairy	-1.1	2.7	0.7	1.8	0.8	7.0	12.3
Meat	3.1	-1.4	3.0	0.6	0.1	3.4	9.0
Poultry	-0.8	-0.1	4.2	3.4	1.4	6.2	15.0
Eggs	-2.3	-10.6	8.1	-2.4	5.4	17.9	14.5
Fats and oils	4.3	-1.4	0.2	2.7	2.8	2.3	11.3
Fresh fruits	14.6	-5.2	3.3	6.6	8.7	7.1	39.3
Fresh vegetables	2.2	2.3	6.6	2.3	12.1	-2.0	25.3
Processed fruits and vegetables	-1.9	2.7	-1.6	2.3	2.2	5.0	8.8
Cereal and bakery products	4.1	3.9	3.4	4.9	2.0	3.9	24.3

^a1996 figures are preliminary.

Source: As reported by ERS.

Changes in the Farm-To-Retail Price Spread for Food Groups in the Market Basket

According to ERS, the farm-to-retail price spread for dairy products increased by 2.3 percent in 1996 and was less than the increase in the price spread for most other food groups in USDA's market basket. This is consistent with the general trend of the past decade. According to ERS, the price spread for all of the foods in USDA's market basket, including dairy, increased about 3.2 percent in 1996. The price spread between retail and farm prices represents the cost of processing, wholesaling, and retailing food products. According to ERS, the higher prices of most inputs (i.e., energy, labor, and packaging) were one factor responsible for the increase in the price spread. The price of inputs used in processing, wholesaling, and retailing foods increased by an average of about 1.4 percent in 1996, as measured by an ERS food-marketing cost index. A 5.8-percent rise in the energy component and a 2.6-percent rise in the labor component contributed most to the increase. A 3.8-percent decline in the price of packaging materials helped moderate the rise in the overall index. Table IV.2 shows the annual change in the percentage of the price spread for dairy and eight other food groups in the market basket from 1990 through 1996.

Appendix IV
Comparison of Retail Prices and Price
Spreads for USDA's Market Basket of
Foods, 1990 Through 1996

Table IV.2: Annual Change in the Farm to Retail Price Spread for Various Food Groups Shown in Percentages, From 1990 Through 1996

Food group	1991	1992	1993	1994	1995	1996^a	Net change 1990-96
Dairy	5.3	0.8	2.6	2.0	2.5	2.3	16.5
Meat	10.8	1.2	3.4	7.9	1.4	1.5	28.8
Poultry	2.4	-1.2	2.0	3.9	3.0	2.8	13.5
Eggs	2.9	3.6	2.8	1.0	2.2	10.5	25.0
Fats and oils	8.1	-0.6	-3.6	-1.2	4.8	5.5	13.2
Fresh fruits	8.5	3.8	1.5	11.7	7.4	6.1	45.5
Fresh vegetables	7.2	0.2	7.1	5.5	12.6	1.2	38.3
Processed fruits and vegetables	2.9	1.9	2.9	1.5	1.1	6.2	17.6
Cereal and bakery products	5.0	3.4	3.8	3.5	2.4	3.0	23.0

^a1996 figures are preliminary.

Source: As reported by ERS.

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