

United States
Department of
Agriculture

Agricultural Marketing Service

Dairy
Programs

# Packaged Fluid Milk Sales in Federal Milk Order Markets: 

## PREFACE

This publication presents information relating to the containers in which fluid milk products are sold, and the methods of distribution used to market these items by handlers regulated under Federal milk marketing orders. The information in this report is based on a survey of fluid milk sales under Federal milk marketing orders during November 2005. Its purpose was to update a similar survey in November 2003, and to see if trends observed in past surveys are continuing. Data were obtained from milk handlers regulated under the 10 marketing orders.

Handlers regulated under Federal milk orders process approximately three-quarters of all the fluid milk products sold in the United States. In general, the sizes and types of containers, and methods of distribution used to market this production would be representative of the entire country. In addition, although these surveys are based on November fluid milk sales, the relationships shown would be representative in other months of the year. Two exceptions would be sales in half-pint containers and sales through school outlets which would not be applicable to sales in a nonschool month.

The tables in this report provide historical information from past surveys and detailed information from the current survey. Information is presented for individual orders and for all orders combined. The data in this report are percentages of total fluid milk products sold by regulated handlers. The number of each size of container can be approximated by using the additional information as shown in the appendices at the end of the report.

This is the twenty-fourth report in a series. Similar data have been distributed based on surveys made in November 1963 through 1967, 1969, and every other year through 2003.

The following are recognized for their contributions to this report: the Federal milk order market administrator staffs; John Wetterau, dairy products marketing specialist; Patsy Emmons, market news assistant; and Vergie Hughes, market information assistant.

Issued December 2006

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA’s TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, DC, 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

## TABLE OF CONTENTS

Page No.
Preface . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1
Table of Contents . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2
Survey Highlights . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4
Table 1: Percentage of total fluid milk products sold by type of container, by handlers regulated under Federal milk orders, November of selected years, 1963-2005

Table 2: Percentage of total fluid milk products sold by size of container, by handlers regulated under Federal milk orders, November of selected years, 1963-2005

Table 3: Percentage of individual and total fluid milk products sold by size and type of container, by handlers regulated under Federal milk orders, November 2005

Table 4: Percentage of total fluid milk products sold by size and type of container, by handlers regulated under Federal milk orders, by order, November 2005

Table 5: Percentage of total fluid milk products sold in single-serve round plastic containers, by handlers regulated under Federal milk orders, by order, November 200523

Table 6: Percentage of total fluid milk products sold by method of distribution and type of wholesale outlet, by handlers regulated under Federal milk orders, November of selected years, 1963-200524

Table 7: Percentage of total fluid milk products sold by method of distribution and type of wholesale outlet, by handlers regulated under Federal milk orders, by order, November 200525

Table 8: Percentage of total fluid milk products sold by type of food chain store, by handlers regulated under Federal milk orders, by selected order, November 2005.

Table 9: Percentage of total fluid milk products sold by type of all other wholesale outlets, by handlers regulated under Federal milk orders, by order, November 2005.

## TABLE OF CONTENTS - CONTINUED

## Page No.

## Appendix:

Definitions ..... 28

Table 1: Volume of fluid milk products sold by handlers regulated under Federal milk orders in November of selected years. . . . . . . . . 29

Table 2: Factors for converting volumes into number of units. . . . . . . . . 30

## SURVEY HIGHLIGHTS

Some highlights of this survey with comparisons to previous years are:
(1) The proportion of total fluid milk products sold in plastic containers increased, continuing the long-term trend in evidence since this survey was first taken in 1963. The 1.0 percentage point increase pushed the market share of plastic to 84.9 percent. Sales of fluid milk in paper containers accounted for 14.9 percent of total sales, while glass containers accounted for 0.2 percent of total sales. (See table 1.)
(2) The proportion of total fluid milk products sold in plastic increased or held steady for nearly all container sizes smaller than a gallon. The most notable increase from 2003 occurred in half-gallon sizes to 14.2 percent. The market share of pints and round pints decreased by 0.1 and 0.2 percent, respectively. (See table 3.)
(3) Plastic containers accounted for more than 84 percent or more of the sales of whole milk, reduced fat (2\%) milk, low fat (1\%) milk, and fat-free (skim) milk. Conversely, about 63 percent of the sales of flavored fat-reduced milk were sold in paper containers. However, this is a 5.4 percent decrease in market share. The market share for flavored whole milk sold in plastic increased by 5.7 percentage points to 83.1 percent. Similarly, the market share of eggnog sold in plastic increased by 4.5 percentage points to 49.3 percent. (See table 3.)
(4) In each of the Federal milk orders, significantly more fluid milk products were sold in plastic containers than in paper and glass combined. Market shares of plastic ranged from 78.4 percent in the Northeast order to 90.1 percent in the Florida order. Glass containers were used in 6 of the 11 orders; however, individual order data was restricted in all those orders except the Northeast order. (See table 4.)

When reviewing the individual order relationships shown in this report, it is important to remember the particular milk sales statistic being surveyed. See 2/ on Appendix Table 1.
(5) Single-serve, round plastic containers accounted for 1.9 percent of total fluid milk product sales. On a regional basis, single-serve round containers ranged from 4.5 percent of total fluid milk product sales in the Southwest to 0.5 percent in the Southeast order. Nearly 25 percent of flavored whole milk sales were made in these round containers as compared to 0.4 percent of skim milk sales. Pints accounted for 47 percent of the sales of this type of container, half-pints about 27 percent, and other sizes about 26 percent. Of the total sales of fluid milk products in plastic pints and half-pints, 57 and 49 percent, respectively, were in these single-serve round plastic containers. (See tables 3 and 5.)

An important fact to mention is that the fluid milk products included in this survey are those that fall into the Class I use category under Federal milk orders. Thus, the use of this type of container in the distribution of milk products that are consumed as a beverage but are not Class I products is not included in this report.
(6) The market share of total fluid milk products sold in gallons was unchanged at 65.0 percent. This market share has appeared to plateau at about this level over the last several surveys. The market share of half-gallon containers also held steady at 18.3 percent. Conversely, about 10.0 percent of total sales were made in half-pint containers, an increase of a full percentage point from the previous survey. Fluid milk products sold in the quart and pint container sizes both decreased by 0.4 percentage points to 3.3 and 1.7 percentage points, respectively. Reporting of sales in 14 ounce, 13.5 ounce, 12 ounce, and 10 ounce container sizes occurred for the first time in this survey. (See tables 2 and 3.)
(7) For nearly all container sizes, plastic accounted for larger proportions of total sales. While plastics' share of gallons now stands at 100.0 percent, plastics’ share of half-gallons increased over 3 percentage points to 77.8 percent. For pint containers, the share sold in plastic was 3.2 percentage points higher at 93.0 percent. For "other" sizes, the share increased markedly to 77.5 percent. The single-serve, round (milk bottle shaped) container likely contributed largely to the increases in the pint and "other" size shares. The plastic share of quarts increased nearly 7 points to 44.0 percentage points. (See table 3 .)
(8) Gallon containers accounted for much larger proportions of the sales of whole milk, reduced-fat milk (2\%), low fat (1\%) milk, and fat-free (skim) milk. On the other hand, about 46 percent of the sales of flavored whole milk and nearly 72 percent of the sales of flavored fat-reduced milk were made in pint and half-pint containers. These market shares might be expected as the sales of these flavored milk products are made predominantly through schools and other food service outlets. Of note, however, is the 5.2 percentage point increase in market share for flavored whole milk sold in half-gallon containers. Much more buttermilk was sold in half-gallon containers than in other sizes. Eggnog had over 90 percent of its sales in half-gallon and quart containers. (See table 3.)
(9) In each of the Federal milk orders, a larger proportion of total fluid milk products were sold in gallon containers than in all other sizes combined. The market share of gallons ranged from 55.1 percent in the Northeast order to 71.3 percent in the Arizona-Las Vegas order. The proportion of fluid milk products sold in half-pint containers was notably larger in the Southeast and Southwest. (See table 4.)
(10) The proportion of fluid milk products sold through wholesale outlets remained unchanged at 99.6 percent. The remaining 0.4 percent was home-delivered. (See table 6.)
(11) The most important wholesale outlet continues to be food chain stores, which accounted for more than 57 percent of total fluid milk sales. However, the market share of this wholesale distribution method did drop 2.9 percentage points in the current survey. Fluid milk sales through institutional outlets (military and schools) totaled 7.2 percent of total sales, down from 2003. Sales through all other wholesale outlets accounted for 35.2 percent of total sales, up 2.9 percentage points from 2003, largely as a result of sales in superstores/ hypermarkets and warehouse stores/ wholesale clubs. (See table 6.)
(12) The food chain store method of distribution is further broken down into supermarkets and dairy/convenience stores. Sales of fluid milk products through supermarkets accounted for 48.1 percent of total sales, down about 1.5 percentage points from 2003. On a regional basis, the supermarkets market share ranged from 36.1 percent in the Upper Midwest order to 57.7 percent in the Southeast order. Sales of fluid milk products through dairy/convenience stores accounted for 9.1 percent of total sales, down 1.4 percentage points. A much larger proportion of fluid milk sales occurred at this method of distribution in the Northeast order. (See table 7.)
(13) The market share of vertically integrated food chain stores totaled 25.4 percent, down slightly from 25.5 percent in 2003. Sales by vertically integrated supermarket chains showed a market share of 21.8 percent of total sales, while vertically integrated dairy/convenience store chains accounted for 3.6 percent of total sales. Vertical integration of food chains showed significant regional variation. In the Southeast order, over 61 percent of total fluid milk sales were made by vertically integrated food chains. There was virtually no vertical integration in the Upper Midwest order. Vertically integrated supermarket chains accounted for about 86 percent of food chain store vertical integration and also showed significant regional variation. The market share of vertically integrated dairy/convenience chains in the Northeast was 10.2 percent, nearly three times the national average of 3.6 percent. (See table 8.)
(14) Schools were the predominant institutional outlet. Sales of total fluid milk products through elementary, high school, and college outlets totaled 6.1 percent, 0.3 percentage points below 2003, and the lowest level surveyed since institutional outlets were first surveyed in 1977. On a regional basis, the market share of schools ranged from 8.6 percent in the Southwest order to 2.7 percent in the Pacific Northwest order. Sales of fluid milk products through military installations went up slightly to 1.0 percent. (See table 7.)
(15) This is the fourth survey in which information was collected for some of the outlets that have been included in all other wholesale outlets, namely superstores/hypermarkets and warehouse stores/wholesale clubs. Sales of fluid milk products through superstores/hypermarkets accounted for 10.2 percent of total sales, up 2.7 percentage points from 2003. The Central and Mideast orders had the highest market shares at 15.8 percent and 15.2 percent, respectively. The market share of warehouse stores/wholesale clubs was 4.7 percent, up 0.7 percentage points from 2003. The market shares ranged from 10.6 percent in the Appalachian order to 2.4 percent in the Southeast order. (See table 9.)

Sales through these methods may account for the decrease in the food chain stores market share that occurred over the last few surveys.

Table 1—Percentage of Total Fluid Milk Products Sold by Type of Container, by Handlers Regulated Under Federal Milk Orders, November of Selected Years, 1963-2005 1/

| Year | Type of container |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Other $\underline{2 /}$ | Total |
|  | Percent |  |  |  |  |
| 1963 | 32 | 63 | 3/ | 5 | 100 |
| 1965 | 29 | 65 | 4 | 2 | 100 |
| 1975 | 2 | 67 | 31 | 4/ | 100 |
| 1985 | 4/ | 34 | 65 | 4/ | 100 |
| 1995 | 4/ | 24 | 76 | 4/ | 100 |
| 1997 | 4/ | 21 | 79 | 4/ | 100 |
| 1999 | 4/ | 19 | 81 | 0 | 100 |
| 2001 | 4/ | 17 | 82 | 0 | 100 |
| 2003 | 4/ | 16 | 84 | 0 | 100 |
| 2005 | 4/ | 15 | 85 | 0 | 100 |

$\underline{1 /}$ The figures in the table are based on the total sales volume in all orders combined. See Appendix Table 1 for the applicable sales volume and fluid milk products included.
2/ Percentages represent metal cans and plastic bag-in-box containers in 1963; metal cans only, 1965 to date.
3/ Data were reported as "Other."
4/ Less than 0.5 percent.

Table 2--Percentage of Total Fluid Milk Products Sold by Size of Container, by Handlers Regulated Under Federal Milk Orders, November of Selected Years, 1963-2005 1/

| Year | Size of container |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gallon | Halfgallon | Quart | Pint | Half-pint | Over 10 quarts | Other | Total |
|  | Percent |  |  |  |  |  |  |  |
| 1963 | 13 | 56 | 15 | 1 | 9 | $5 \underline{2}$ | 1 | 100 |
| 1965 | 17 | 54 | 12 | 1 | 10 | 4 | 2 | 100 |
| 1975 | 43 | 34 | 7 | 1 | 11 | 3 | 1 | 100 |
| 1985 | 60 | 22 | 5 | 2 | 9 | 2 | 3/ | 100 |
| 1995 | 64 | 18 | 4 | 2 | 10 | 2 | 3/ | 100 |
| 1997 | 66 | 18 | 4 | 2 | 9 | 1 | 3/ | 100 |
| 1999 | 65 | 18 | 4 | 2 | 10 | 1 | 3/ | 100 |
| 2001 | 65 | 18 | 4 | 2 | 9 | 1 | 1 | 100 |
| 2003 | 65 | 18 | 4 | 2 | 9 | 1 | 1 | 100 |
| 2005 | 65 | 18 | 3 | 2 | 10 | 1 | 1 | 100 |

$\underline{1 /}$ The figures in the table are based on the total sales volume in all orders combined. See Appendix Table 1 for the applicable sales volume and fluid milk products included.
2/ Includes "5-10 quart" containers.
3/ Less than 0.5 percent.

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Whole milk |  |  |  |
| Gallon |  |  | 74.3 | 74.3 |
| Half-gallon | 0.1 | 2.8 | 14.1 | 17.0 |
| Quart | 3/ | 1.5 | 1.5 | 3.0 |
| Pint |  | 0.1 | 0.6 | 0.7 |
| Half-pint |  | 2.8 | 0.1 | 2.9 |
| 6-Gallon |  |  | 0.2 | 0.2 |
| 5-Gallon |  |  | 0.5 | 0.5 |
| Other |  | 0.3 | 0.3 | 0.6 |
| 14 Ounce |  |  | 0.1 | 0.1 |
| 13.5 Ounce |  |  |  |  |
| 12 Ounce |  |  | 3/ | 3/ |
| 10 Ounce |  |  | 3/ | 3/ |
| Round Pint |  |  | 0.5 | 0.5 |
| Round Half-pint |  |  | 0.1 | 0.1 |
| Round Other |  |  | 0.1 | 0.1 |
| Total of all sizes | 0.1 | 7.5 | 92.4 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{2}$ / | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Flavored whole milk |  |  |  |
| Gallon |  |  | 2.7 | 2.7 |
| Half-gallon | 0.2 | 3.6 | 22.8 | 26.6 |
| Quart | 1.3 | 5.2 | 12.3 | 18.8 |
| Pint |  | 1.4 | 18.9 | 20.3 |
| Half-pint |  | 5.1 | 0.7 | 5.8 |
| 6-Gallon |  |  | 0.1 | 0.1 |
| 5-Gallon |  |  | 0.3 | 0.3 |
| Other |  | 3/ | 0.4 | 0.4 |
| 14 Ounce |  |  | 2.5 | 2.5 |
| 13.5 Ounce |  |  | 0.3 | 0.3 |
| 12 Ounce |  |  | 1.1 | 1.1 |
| 10 Ounce |  |  | 4/ | 4/ |
| Round Pint |  |  | 19.9 | 19.9 |
| Round Half-pint |  |  | 0.3 | 0.3 |
| Round Other |  |  | 0.7 | 0.7 |
| Total of all sizes | 1.5 | 15.3 | 83.1 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Eggnog |  |  |  |
| Gallon |  |  | 3.2 | 3.2 |
| Half-gallon | 4/ | 25.1 | 30.4 | 55.6 |
| Quart | 4/ | 24.5 | 12.4 | 37.0 |
| Pint |  | 0.6 | 1.7 | 2.2 |
| Half-pint |  |  |  |  |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  |  |  |
| Other | 0.4 | 0.1 | 0.6 | 1.0 |
| 14 Ounce |  |  | 4/ | 4/ |
| 13.5 Ounce |  |  |  |  |
| 12 Ounce |  |  | 4/ | 4/ |
| 10 Ounce |  |  |  |  |
| Round Pint |  |  | 0.8 | 0.8 |
| Round Half-pint |  |  | 4/ | 4/ |
| Round Other |  |  | 0.2 | 0.2 |
| Total of all sizes | 0.4 | 50.3 | 49.3 | 100.0 |

CONTINUED

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{2}$ / | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Reduced fat (2\%) milk |  |  |  |
| Gallon |  |  | 74.1 | 74.1 |
| Half-gallon | 0.2 | 2.6 | 13.1 | 15.9 |
| Quart | 4/ | 0.8 | 0.7 | 1.5 |
| Pint |  | 0.1 | 0.2 | 0.2 |
| Half-pint |  | 5.8 | 0.4 | 6.2 |
| 6-Gallon |  |  | 3/ | 3/ |
| 5-Gallon |  |  | 1.1 | 1.1 |
| Other | 3/ | 0.1 | 0.2 | 0.3 |
| 14 Ounce |  |  | 3/ | 3/ |
| 13.5 Ounce |  |  |  |  |
| 12 Ounce |  |  | 3/ | 3/ |
| 10 Ounce |  |  | 3/ | 3/ |
| Round Pint |  |  | 0.4 | 0.4 |
| Round Half-pint |  |  | 0.2 | 0.2 |
| Round Other |  |  | 3/ | 3/ |
| Total of all sizes | 0.2 | 9.4 | 90.4 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{\underline{\prime} /}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Low fat (1\%) milk |  |  |  |
| Gallon |  |  | 67.1 | 67.1 |
| Half-gallon | 0.1 | 4.7 | 14.1 | 18.9 |
| Quart | 4/ | 1.1 | 0.6 | 1.7 |
| Pint |  | 4/ | 0.1 | 0.1 |
| Half-pint |  | 9.7 | 0.5 | 10.3 |
| 6-Gallon |  |  | 3/ | 3/ |
| 5-Gallon |  |  | 0.4 | 0.4 |
| Other | 3/ | 0.1 | 3/ | 0.1 |
| 14 Ounce |  |  | 3/ | 3/ |
| 13.5 Ounce |  |  | 4/ | 4/ |
| 12 Ounce |  |  |  |  |
| 10 Ounce |  |  | 0.1 | 0.1 |
| Round Pint |  |  | 3/ | 3/ |
| Round Half-pint |  |  | 1.0 | 1.0 |
| Round Other |  |  | 0.3 | 0.3 |
| Total of all sizes | 0.1 | 15.6 | 84.2 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Fat-free (skim) milk |  |  |  |
| Gallon |  |  | 68.7 | 68.7 |
| Half-gallon | 0.4 | 6.2 | 15.9 | 22.5 |
| Quart | 3/ | 1.6 | 1.0 | 2.6 |
| Pint |  | 0.1 | 3/ | 0.1 |
| Half-pint |  | 4.2 | 0.2 | 4.3 |
| 6-Gallon |  |  | 0.1 | 0.1 |
| 5-Gallon |  |  | 0.9 | 0.9 |
| Other |  | 0.2 | 0.1 | 0.3 |
| 14 Ounce |  |  | 4/ | 4/ |
| 13.5 Ounce |  |  |  |  |
| 12 Ounce |  |  | 3/ | 3/ |
| 10 Ounce |  |  | 3/ | 3/ |
| Round Pint |  |  | 0.2 | 0.2 |
| Round Half-pint |  |  | 0.1 | 0.1 |
| Round Other |  |  | 0.2 | 0.2 |
| Total of all sizes | 0.4 | 12.2 | 87.3 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Flavored fat-reduced milk |  |  |  |
| Gallon |  |  | 11.8 | 11.8 |
| Half-gallon | 4/ | 2.0 | 6.8 | 8.9 |
| Quart | 4/ | 1.2 | 1.1 | 2.3 |
| Pint |  | 0.2 | 1.2 | 1.5 |
| Half-pint |  | 58.9 | 3.7 | 62.7 |
| 6-Gallon |  |  | 0.2 | 0.2 |
| 5-Gallon |  |  | 1.2 | 1.2 |
| Other | 0.2 | 0.4 | 0.1 | 0.7 |
| 14 Ounce |  |  | 1.8 | 1.8 |
| 13.5 Ounce |  |  | 0.3 | 0.3 |
| 12 Ounce |  |  | 0.1 | 0.1 |
| 10 Ounce |  |  | 0.5 | 0.5 |
| Round Pint |  |  | 3.2 | 3.2 |
| Round Half-pint |  |  | 4.3 | 4.3 |
| Round Other |  |  | 0.5 | 0.5 |
| Total of all sizes | 0.2 | 62.8 | 37.0 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Buttermilk |  |  |  |
| Gallon |  |  | 6.9 | 6.9 |
| Half-gallon | 4/ | 18.6 | 44.4 | 63.1 |
| Quart | 4/ | 17.2 | 9.0 | 26.2 |
| Pint |  | 0.9 | 0.2 | 1.1 |
| Half-pint |  | 1.6 | 0.1 | 1.7 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 0.2 | 0.2 |
| Other | 3/ | 3/ | 0.2 | 0.3 |
| 14 Ounce |  |  |  |  |
| 13.5 Ounce |  |  |  |  |
| 12 Ounce |  |  |  |  |
| 10 Ounce |  |  |  |  |
| Round Pint |  |  | 0.4 | 0.4 |
| Round Half-pint |  |  | 4/ | 4/ |
| Round Other |  |  | 0.1 | 0.1 |
| Total of all sizes | 3/ | 38.4 | 61.6 | 100.0 |

Table 3--Percentage of Individual and Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, November 2005 1/--continued

| Size of container $\underline{\underline{2} /}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Total fluid milk products |  |  |  |
| Gallon |  |  | 65.0 | 65.0 |
| Half-gallon | 0.2 | 3.9 | 14.2 | 18.3 |
| Quart | 3/ | 1.8 | 1.4 | 3.3 |
| Pint |  | 0.1 | 0.7 | 0.8 |
| Half-pint |  | 8.9 | 0.5 | 9.5 |
| 6-Gallon |  |  | 0.1 | 0.1 |
| 5-Gallon |  |  | 0.8 | 0.8 |
| Other |  | 0.2 | 0.2 | 0.4 |
| 14 Ounce |  |  | 0.2 | 0.2 |
| 13.5 Ounce |  |  | 3/ | 3/ |
| 12 Ounce |  |  | 0.1 | 0.1 |
| 10 Ounce |  |  | 0.1 | 0.1 |
| Round Pint |  |  | 0.9 | 0.9 |
| Round Half-pint |  |  | 0.5 | 0.5 |
| Round Other |  |  | 0.2 | 0.2 |
| Total of all sizes | 0.2 | 14.9 | 84.9 | 100.0 |

1 / The figures in the table are based on the total sales volume for the product in all orders combined. See Appendix Table 1 for applicable sales volume. Totals may not add due to rounding.
$\underline{2}$ / Five-gallon and six-gallon containers listed under plastic are mostly bag-in-box units.
3/ Less than 0.05 percent.
$\underline{4} /$ Data are restricted; pertains to the operations of fewer than three handlers. Data are included in "Other."

Table 4--Percentage of Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1//

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Appalachian |  |  |  |
| Gallon |  |  | 68.3 | 68.3 |
| Half-gallon | 3/ | 0.6 | 15.2 | 15.8 |
| Quart | 3/ | 0.3 | 1.4 | 1.7 |
| Pint |  | 4/ | 1.7 | 1.7 |
| Half-pint |  | 9.2 | 2.1 | 11.3 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  |  |  |
| Other |  |  | 1.1 | 1.1 |
| Total of all sizes | 3/ | 10.2 | 89.8 | 100.0 |
|  | Arizona-Las Vegas |  |  |  |
| Gallon |  |  | 71.3 | 71.3 |
| Half-gallon |  | 5/ | 5/ | 5/ |
| Quart |  | 5/ | 5/ | 5/ |
| Pint |  | $5 /$ | 5/ | 5/ |
| Half-pint |  | 5/ | 5/ | 5/ |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 5/ | 5/ |
|  |  | 5/ | 28.7 | 28.7 |
| Total of all sizes |  | 5/ | 100.0 | 100.0 |
|  | Central |  |  |  |
| Gallon |  |  | 70.1 | 70.1 |
| Half-gallon | 3/ | 2.1 | 11.9 | 14.0 |
| Quart |  | 1.9 | 0.2 | 2.1 |
| Pint |  | 0.2 | 1.5 | 1.7 |
| Half-pint |  | 10.1 | 0.6 | 10.7 |
| 6-Gallon |  |  | 4/ | 4/ |
| 5-Gallon |  |  | 1.2 | 1.2 |
| Other |  | 4/ | 0.2 | 0.3 |
| Total of all sizes | 3/ | 14.3 | 85.7 | 100.0 |

Table 4--Percentage of Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1/--continued

| Size of container $\underline{\underline{2}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Florida |  |  |  |
| Gallon |  |  | 65.6 | 65.6 |
| Half-gallon |  |  | 19.2 | 19.2 |
| Quart |  |  | 2.2 | 2.2 |
| Pint |  | 6/ | 2.0 | 2.0 |
| Half-pint |  | 9.2 | 1.0 | 10.2 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 6/ | 6/ |
| Other |  | 0.7 | 0.1 | 0.8 |
| Total of all sizes |  | 9.9 | 90.1 | 100.0 |
|  | Mideast |  |  |  |
| Gallon |  |  | 68.1 | 68.1 |
| Half-gallon | 3/ | 1.0 | 15.1 | 16.1 |
| Quart | 3/ | 1.6 | 1.1 | 2.7 |
| Pint |  | 0.1 | 1.5 | 1.6 |
| Half-pint |  | 9.4 | 0.6 | 10.0 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 0.9 | 0.9 |
|  |  | 0.1 | 0.4 | 0.5 |
| Total of all sizes | 3/ | 12.1 | 87.9 | 100.0 |
|  | Northeast |  |  |  |
| Gallon |  |  | 55.1 | 55.1 |
| Half-gallon | 0.2 | 9.5 | 16.1 | 25.8 |
| Quart | 4/ | 4.2 | 2.2 | 6.4 |
| Pint |  | 0.2 | 1.5 | 1.6 |
| Half-pint |  | 7.2 | 0.9 | 8.1 |
| 6-Gallon |  |  | 0.5 | 0.5 |
| 5-Gallon |  |  | 1.0 | 1.0 |
| Other |  | 0.5 | 1.0 | 1.5 |
| Total of all sizes | 0.2 | 21.5 | 78.4 | 100.0 |

Table 4--Percentage of Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1/--continued

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | $\underline{\text { Pacific Northwest }}$ |  |  |  |
| Gallon |  |  | 70.7 | 70.7 |
| Half-gallon |  | 9.6 | 7.2 | 16.8 |
| Quart |  | 2.7 | 0.1 | 2.8 |
| Pint |  | 0.7 | 0.7 | 1.4 |
| Half-pint |  | 5.8 | 4/ | 5.9 |
| 6-Gallon |  |  | 6/ | 6/ |
| 5-Gallon |  |  | 0.8 | 0.8 |
| Other |  | 4/ | 1.5 | 1.5 |
| Total of all sizes |  | 18.9 | 81.1 | 100.0 |
|  | Southeast |  |  |  |
| Gallon |  |  | 66.5 | 66.5 |
| Half-gallon |  | 1.0 | 15.1 | 16.1 |
| Quart |  | 0.6 | 1.8 | 2.5 |
| Pint |  | 6/ | 1.9 | 1.9 |
| Half-pint |  | 10.5 | 2.0 | 12.5 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 0.2 | 0.2 |
|  |  | 0.1 | 0.3 | 0.3 |
| Total of all sizes |  | 12.1 | 87.9 | 100.0 |
|  | Southwest |  |  |  |
| Gallon |  |  | 66.3 | 66.3 |
| Half-gallon |  | 2.0 | 13.8 | 15.8 |
| Quart | 3/ | 1.0 | 1.2 | 2.2 |
| Pint |  | 4/ | 2.4 | 2.4 |
| Half-pint |  | 10.6 | 1.7 | 12.3 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 0.5 | 0.5 |
| Other | 3/ | 4/ | 0.4 | 0.4 |
| Total of all sizes | 3/ | 13.7 | 86.3 | 100.0 |

Table 4--Percentage of Total Fluid Milk Products Sold by Size and Type of Container, by Handlers Regulated Under Federal Milk Orders, by Order, November $2005 \underline{1}$ 1--continued

| Size of container $\underline{\underline{/}}$ | Type of container |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass | Paper | Plastic | Total of all types |
|  | Percent |  |  |  |
|  | Upper Midwest |  |  |  |
| Gallon |  |  | 68.4 | 68.4 |
| Half-gallon | 3/ | 6.1 | 9.8 | 15.9 |
| Quart |  | 1.1 | 1.2 | 2.3 |
| Pint |  | 0.1 | 1.2 | 1.3 |
| Half-pint |  | 9.3 | 0.6 | 9.9 |
| 6-Gallon |  |  |  |  |
| 5-Gallon |  |  | 1.5 | 1.5 |
| Other |  | 0.2 | 0.6 | 0.8 |
| Total of all sizes | 3/ | 16.7 | 83.3 | 100.0 |

$\underline{1 /}$ The figures in the table are based on the total sales volume for the milk order. See Appendix Table 1 for applicable sales volume and fluid milk products included. Totals may not add due to rounding. $2 / 5$-gallon and 6 -gallon containers listed under plastic are mostly bag-in-box units. Pint, half-pint, and "other" size containers include data for single-serve round plastic containers which are shown separately in Table 5. $\underline{3} /$ Data are restricted; pertains to the operations of fewer than three handlers. Data are included in "Paper." For those markets in which glass data are restricted, the average percent share is $0.3 \%$. $\underline{4 /}$ Less than 0.05 percent. $\underline{5} / \mathrm{Data}$ are restricted and are included in "Other-Plastic." 6/ Data are restricted and are included in "Other."

Table 5--Percentage of Total Fluid Milk Products Sold in Single-Serve Round Plastic Containers, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1/

| Federal milk Order | Size of single-serve round plastic container |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 14 Ounce | 13.5 Ounce | 12 Ounce | 10 Ounce | Pint | Half-pint | Other | Total |
|  | Percent |  |  |  |  |  |  |  |
| Appalachian | 1.1 | 0 | $\underline{2 /}$ | 2/ | 0.6 | $\underline{2 /}$ | 0 | 2.0 |
| Arizona-Las Vegas | 0 | 0 | $\underline{2 /}$ | 0 | $\underline{2 /}$ | $\underline{2 /}$ | 2/ | $\underline{2 /}$ |
| Central | 3/ | 3/ | 0.1 | 2/ | 1.2 | 2/ | 2/ | 1.8 |
| Florida | $\underline{2 /}$ | 0 | 2/ | 0 | 0 | 0 | 0 | $\underline{2 /}$ |
| Mideast | 3/ | 3/ | 0 | 0 | 1.5 | 0.6 | 0.2 | 2.3 |
| Northeast | 0.3 | 3/ | 3/ | 0.2 | 0.5 | 0.6 | 0.2 | 1.8 |
| Pacific Northwest | 3/ | 0.1 | $\underline{2 /}$ | 3/ | 0.7 | 2/ | 0.2 | 1.2 |
| Southeast | 0.2 | 3/ | 2/ | $\underline{2}$ | 0.1 | $\underline{2}$ | 0 | 0.5 |
| Southwest | 0.1 | 2/ | $\underline{2 /}$ | $\underline{2}$ | 2.4 | 1.7 | 0.2 | 4.5 |
| Upper Midwest | 3/ | 2/ | $\underline{2 /}$ | 2/ | 1.2 | 0.6 | 2/ | 2.1 |
| All orders combined | 0.2 | 3/ | 0.1 | 0.1 | 0.9 | 0.5 | 0.2 | 1.9 |

$\underline{1 /}$ The figures in the table are based on the total sales volume for the milk order. See Appendix Table 1 for applicable sales volume and fluid milk products included. Totals may not add due to rounding.
$\underline{2}$ / Data are restricted; pertains to the operations of fewer than three handlers. Data are included in "Total".
$\underline{3} /$ Less than 0.05 percent.

Table 6--Percentage of Total Fluid Milk Products Sold by Method of Distribution and Type of Wholesale Outlet, by Handlers Regulated Under Federal Milk Orders, November of Selected Years, 1963 to 2005

| Year | Method of distribution 2/ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Home-delivery | Total wholesale | Type of wholesale outlet 3/ |  |  |  |  |
|  |  |  | Food chain stores |  | Institutional |  | All other |
|  |  |  | Supermarket | Dairy and convenience | Military | Schools |  |
|  | Percent |  |  |  |  |  |  |
| 1963 | 29.7 | 70.3 | --- | --- | --- | --- | --- |
| 1965 | 28.3 | 71.7 | --- | --- | --- | --- | --- |
| 1975 | 6.9 | 93.1 | --- | --- | --- | --- | --- |
| 1985 | 1.5 | 98.5 | 52.6 | 9.4 | 1.2 | 6.8 | 28.5 |
| 1995 | 0.7 | 99.3 | 56.5 | 10.2 | 1.0 | 6.5 | 25.1 |
| 1997 | 0.5 | 99.5 | 57.6 | 10.2 | 0.9 | 6.3 | 24.4 |
| 1999 | 0.5 | 99.5 | 57.0 | 9.5 | 0.8 | 6.8 | 25.4 |
| 2001 | 0.4 | 99.6 | 53.5 | 10.0 | 0.9 | 7.0 | 28.3 |
| 2003 | 0.4 | 99.6 | 49.6 | 10.5 | 0.9 | 6.4 | 32.3 |
| 2005 | 0.4 | 99.6 | 48.1 | 9.1 | 1.0 | 6.1 | 35.2 |

$\underline{1}$ /The figures in the table are based on the total sales volume in all orders combined. See Appendix Table 1 for the applicable sales volume and fluid milk products included.
2/See the "Definitions" section in the Appendix for the description of the various methods of distribution.
$\underline{3} /$ This breakdown was not available prior to 1977. Percentages may not add to total wholesale due to rounding.

Table 7--Percentage of Total Fluid Milk Products Sold by Method of Distribution and Type of Wholesale Outlet, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1/

| Federal milk order | Method of distribution 2/ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Homedelivery | Total wholesale | Type of wholesale outlet |  |  |  |  |  |  |
|  |  |  | Food chain stores |  |  | Institutional |  |  | All other |
|  |  |  | Total | Supermarkets | Dairy and convenience | Total | Military | Schools |  |
|  | Percent |  |  |  |  |  |  |  |  |
| Appalachian | 3/ | 100.0 | 60.1 | 49.5 | 10.6 | 7.1 | 0.4 | 6.7 | 32.9 |
| Arizona-Las Vegas | 0 | 100.0 | 4/ | 4/ | 4/ | 4/ | 4/ | 4/ | 4/ |
| Central | 3/ | 100.0 | 53.7 | 49.6 | 4.1 | 7.9 | 0.7 | 7.2 | 38.4 |
| Florida | 0 | 100.0 | 56.9 | 51.4 | 5.5 | 6.6 | 1.3 | 5.4 | 36.5 |
| Mideast | 3/ | 100.0 | 50.2 | 42.0 | 8.2 | 6.4 | 0.1 | 6.3 | 43.4 |
| Northeast | 0.2 | 99.8 | 68.6 | 50.8 | 17.9 | 7.3 | 2.0 | 5.3 | 23.9 |
| Pacific Northwest | 3/ | 100.0 | 50.2 | 44.6 | 5.5 | 3.7 | 1.0 | 2.7 | 46.1 |
| Southeast | 3/ | 100.0 | 61.4 | 57.7 | 3.7 | 9.1 | 1.9 | 7.2 | 29.5 |
| Southwest | 3/ | 100.0 | 52.2 | 45.4 | 6.8 | 9.7 | 1.1 | 8.6 | 38.1 |
| Upper Midwest | 1.1 | 98.9 | 41.5 | 36.1 | 5.4 | 5.2 | 5/ | 5.1 | 52.2 |
| All orders combined | 0.4 | 99.6 | 57.2 | 48.1 | 9.1 | 7.2 | 1.0 | 6.1 | 35.2 |

$\underline{1}$ / The figures in the table are based on the total sales volume for the milk order. See Appendix Table 1 for applicable sales volume and fluid milk products included. Totals may not add due to rounding.
$\underline{2}$ / See the "Definitions" section in the Appendix for the description of the various methods of distribution.
3/ Data are restricted; pertains to the operations of fewer than three handlers. Data are included in "All other wholesale."
4/ Data are restricted for all types of wholesale outlets; pertains to the operations of fewer than three handlers.
5/ Less than 0.05 percent.

Table 8--Percentage of Total Fluid Milk Products Sold by Type of Food Chain Store, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1//

| Federal milk order | Type of food chain store 2/ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total food chain stores | Supermarket |  | Dairy/convenience |  | Total vertically integrated |
|  |  | Vertically integrated | Other | Vertically integrated | Other |  |
|  | Percent |  |  |  |  |  |
| Appalachian | 60.1 | 19.3 | 30.2 | 3/ | 10.6 | 19.3 |
| Arizona-Las Vegas | 4/ | 4/ | 4/ | 4/ | 4/ | 4/ |
| Central | 53.7 | 16.8 | 32.8 | 0.5 | 3.6 | 17.3 |
| Florida | 56.9 | 51.4 | 0 | 5.5 | 0 | 56.9 |
| Mideast | 50.2 | 13.6 | 28.3 | 1.0 | 7.1 | 14.7 |
| Northeast | 68.6 | 12.6 | 38.1 | 10.2 | 7.7 | 22.8 |
| Pacific Northwest | 50.2 | 3/ | 44.6 | 3/ | 5.5 | 3/ |
| Southeast | 61.4 | 57.7 | 0 | 3.7 | 0 | 61.4 |
| Southwest | 52.2 | 23.7 | 21.6 | 0 | 6.8 | 23.7 |
| Upper Midwest | 41.5 | 0 | 36.1 | 3/ | 5.4 | 3/ |
| All orders combined | 57.2 | 21.8 | 26.3 | 3.6 | 5.4 | 25.4 |

$\underline{1 /}$ The figures in the table are based on the total sales volume for the milk order. See Appendix Table 1 for applicable sales volume and fluid milk products included. Totals may not add due to rounding.
2/ See the "Definitions" section in the Appendix for the description of the types of food chain stores.
$\underline{3} /$ Data are restricted; pertains to the operations of fewer than three handlers. Data are included in applicable "Other". "All orders combined" includes restricted data.
4/ Data are restricted for all types of food chain stores; pertains to the operations of fewer than three handlers. "All orders combined" includes restricted data.

Table 9--Percentage of Total Fluid Milk Products Sold by Type of All Other Wholesale Outlets, by Handlers Regulated Under Federal Milk Orders, by Order, November 2005 1/

| Federal milk order | Type of all other wholesale outlets $2 /$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total all other | Superstores/ hypermarkets | $\begin{gathered} \text { Warehouse } \\ \text { stores/wholesale } \\ \text { clubs } \\ \hline \end{gathered}$ | Other |
|  | Percent |  |  |  |
| Appalachian 3/ | 32.9 | 9.7 | 10.6 | 12.6 |
| Arizona-Las Vegas | 4/ | 4/ | 4/ | 4/ |
| Central 3/ | 38.4 | 15.8 | 3.4 | 19.2 |
| Florida | 36.5 | 10.6 | 5.8 | 20.1 |
| Mideast ${ }^{3} /$ | 43.4 | 15.2 | 3.8 | 24.4 |
| Northeast | 23.9 | 2.8 | 2.7 | 18.4 |
| Pacific Northwest ${ }^{\mathbf{3} /}$ | 46.1 | 12.5 | 3.2 | 30.4 |
| Southeast 3/ | 29.5 | 14.7 | 2.4 | 12.5 |
| Southwest | 38.1 | 11.8 | 6.5 | 19.9 |
| Upper Midwest | 52.2 | 7.5 | 5/ | 44.7 |
| All orders combined | 35.2 | 10.2 | 4.7 | 20.4 |

$\underline{1 /}$ The figures in the table are based on the total sales volume for the milk order. See
Appendix Table 1 for applicable sales volume and fluid milk products included. Totals may not add due to rounding.
2/ See the "Definitions" section in the Appendix of the types of all other wholesale outlets.
3/ "Total all other" and "Other" includes data for home-delivery which were restricted.
4/ Data are restricted for all types of wholesale outlets; pertains to the operations of fewer than three handlers. "All orders combined" includes restricted data.
$\underline{5}$ Data are restricted; pertains to the operations of fewer than three handlers. Data are included in "Other." "All orders combined" includes restricted data.

## APPENDIX

## Definitions

Type of Container: Containers are categorized by glass, paper, and plastic. Containers larger than one gallon shown in the glass category are metal cans. The paper category includes wax-coated and plastic-coated containers, and foil-lined UHT containers. Plastic includes rigid blow mold or thermoformed containers, single-serve round (milk bottle shaped) containers, plastic-lined boxes (polyethylene bag in corrugated paper box or in rigid plastic case), and plastic bags sold separately. Containers larger than one gallon in the plastic category, for the most part, are bag-in-box containers.

Size of Container: Container sizes surveyed are: gallon, half-gallon, quart, pint, half-pint, 6-gallon, 5-gallon, 14 ounce, 13.5 ounce, 12 ounce, 10 ounce, round pint, round half-pint, round other, and other. Containers banded together, or containers put into larger bags, sacs, etc., are reported separately. Examples: 1/2 -gallon twin packs are reported as two $1 / 2$ gallons; four 1-quart bags in a larger bag are reported as four quart units, not as a gallon; six-packs of half pints are reported as six half pints, etc.

Method of Distribution: Sales are divided into home-delivery and wholesale. Home-delivery includes quantities delivered to homes or sold to others for delivery to homes. Wholesale includes quantities distributed through all other methods. Wholesale is broken down into food chain stores, institutional outlets, and all other.

Food chain stores are defined as 11 or more stores, primarily engaged in food retailing, and either being under common management, being franchised by a common company, or belonging to a common purchasing association. Food chain stores are categorized into supermarket or dairy/convenience stores. Also identified are vertically integrated chain stores. Vertically integrated includes those chain stores which have integrated backwards into fluid milk processing, and fluid milk processing plants which have integrated forward into chain store ownership. Also included are franchise organizations in which the franchiser also owns a dairy plant that services the franchisee's store and associations of independent food store owners which jointly own a dairy plant that services their stores.

Institutional outlets are military installations and schools which includes public schools (elementary and high school), colleges, and universities. All other wholesale is broken down into superstores/hypermarkets, warehouse stores/wholesale clubs, and other. Superstores/hypermarkets are general merchandise stores that include a full-line supermarket. Other includes nonchain food stores, nonfood stores (drug stores, gasoline stations, etc.), restaurants, hotels, hospitals, nursing homes, vending machines, and any other type of wholesale outlet.

## Appendix Table 1--Volume of Fluid Milk Products Sold by Handlers Regulated Under Federal Milk Orders in November of Selected Years

| Fluid milk product | Sales in November $2005 \underline{1}$ / | Federal milk order | Sales in November 2005 $2 /$ | Year | Sales in November 3/ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1,000 pounds |  | 1,000 pounds |  | 1,000 Pounds |
| Whole milk | 1,118,248 | Appalachian | 351,873 | 1963 | 1,662,174 |
| Flavored whole milk | 62,699 | Arizona-Las Vegas | 88,411 | 1965 | 2,241,845 |
| Eggnog | 54,267 | Central | 369,626 | 1975 | 3,290,151 |
| Reduced fat (2\%) milk | 1,213,589 | Florida | 233,100 | 1985 | 3,624,757 |
| Low fat (1\%) milk | 434,296 | Mideast | 549,273 | 1995 | 3,762,277 |
| Fat-free (skim) milk | 561,560 | Northeast | 875,274 | 1997 | 3,651,023 |
| Flavored fat-reduced milk | 278,888 | Pacific Northwest | 178,818 | 1999 | 3,724,179 |
| Buttermilk | 37,420 | Southeast | 388,345 | 2001 | 3,917,452 |
| Total fluid milk products | 3,760,966 | Southwest | 354,144 | 2003 | 3,760,797 |
|  |  | Upper Midwest | 372,102 | 2005 | 3,760,966 |
|  |  | All orders combined | 3,760,966 |  |  |

1 / Total sales for all orders combined.
$\underline{2}$ Sales of total fluid milk products by handlers regulated under the order; the outlet to which the milk product is delivered may not be located in the marketing area of the order.
3/ Sales of total fluid milk products for all orders included in the applicable survey.

Appendix Table 2--Factors for Converting Volumes Sold into Number of Container Units Sold $\underline{1}$ /

| Fluid milk product | Gallon |  |  |  |  |  |  |  |  | Half- <br> Gallo <br> n | Quart | Pint |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Half- <br> pint | 6- <br> Gallon | $5-$ <br> Gallon | 14 <br> Oz. | 13.5 <br> Oz. | 12 <br> Oz. | 10 <br> Oz. |  |  |  |  |  |
| Whole milk | 8.60 | 4.300 | 2.1500 | 1.0750 | .5375 | 51.60 | 43.00 | .9406 | .9070 | .8063 | .6719 |  |
| Flavored whole milk | 8.00 | 4.000 | 2.0000 | 1.0000 | .5000 | 48.00 | 40.00 | .8750 | .8438 | .7500 | .6250 |  |
| Eggnog | 9.00 | 4.500 | 2.2500 | 1.1250 | .5625 | 54.00 | 45.00 | .9844 | .9492 | .8438 | .7031 |  |
| Reduced fat (2\%) milk | 8.62 | 4.310 | 2.1550 | 1.0775 | .5388 | 51.72 | 43.10 | .9428 | .9091 | .8081 | .6734 |  |
| Low fat (1\%) milk | 8.62 | 4.310 | 2.1550 | 1.0775 | .5388 | 51.72 | 43.10 | .9428 | .9091 | .8081 | .6734 |  |
| Fat-free (skim) milk | 8.63 | 4.315 | 2.1575 | 1.0788 | .5394 | 51.78 | 43.15 | .9439 | .9102 | .8091 | .6742 |  |
| Flavored fat-reduced |  |  |  |  |  |  |  |  |  |  |  |  |
| milk | 8.00 | 4.000 | 2.0000 | 1.0000 | .5000 | 48.00 | 40.00 | .8750 | .8438 | .7500 | .6250 |  |
| Buttermilk | 8.62 | 4.310 | 2.1550 | 1.0775 | .5388 | 51.72 | 43.10 | .9428 | .9091 | .8081 | .6734 |  |

1/ Conversion process-compute volume sold in the particular size container by multiplying the percentage in the table by the applicable volume in Appendix Table 1; then divide volume by applicable factor in this table to determine the number of container units.

