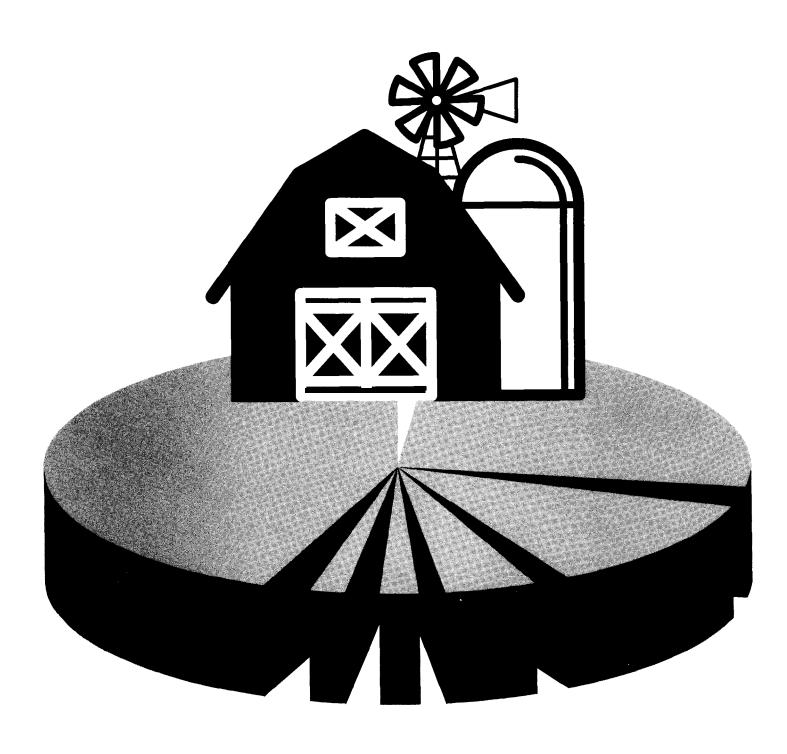


United States **Department** of
Agriculture

Rural Business-Cooperative Service

RBS Service Report 53

# Farmer Cooperative Statistics, 1996



# **Abstract**

A survey of U.S. farmer cooperatives for 1996 showed a record gross business volume of \$128.1 billion and a record net business volume of \$106.2 billion for the 3,884 cooperatives in the survey. Net income of \$2.25 billion in 1996 was down 4.9 percent from the record \$2.36 billion in 1995. Assets, liabilities, and net worth were up. Business volume by commodity handled is reported for all cooperatives. Cooperatives are classified according to marketing, farm supply, and service function. Trends in cooperative numbers, memberships, business size, sales volume, net income, assets, liabilities, and net worth are reported, along with data on selected activities of other service organizations.

Keywords: cooperatives, statistics, business volume, employees, memberships, balance sheet, net income.

# Farmer Cooperative Statistics, 1996

Ralph M. Richardson, Celestine C. Adams, Katherine C. **DeVille,** Jacqueline E. Penn, and Charles A. Kraenzle

Rural Business-Cooperative Service

**RBS Service Report 53** 

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# **Preface**

Farmer cooperative statistics are collected annually to provide information on the progress and trends in cooperatives' growth and development. These statistics are used for research, technical assistance, education, planning, and public policy. Acquiring, analyzing, and disseminating farmer cooperative statistics by USDA is authorized by the Cooperative Marketing Act of 1926.

This report provides aggregate information on the number, membership, business volume, and net income of farmer cooperatives. Cooperatives are classified by principal product marketed and major functional type. Fishery cooperatives are included as miscellaneous marketing cooperatives. Both gross (includes intercooperative business) and net (excludes intercooperative business) dollar volumes are reported.

Statistics for 1996 were compiled on a national basis only. Data by State are compiled and reported every other year. State data for 1995 appear in the appendix.

The information was collected from individual farmer and fishery cooperatives by a mail survey of all organizations identified by USDA's Rural Business-Cooperative Service (RBS) as farmer or aquacultural cooperatives. Additional information was collected from local farm supply and marketing cooperatives for a special study of their fertilizer operations. Information was requested for their 1996 business year.

RBS conducts an annual census because of the need to make accurate estimates for all cooperatives and the need for current data on individual cooperatives for research, education, and technical assistance purposes.

Statistics for all cooperatives were generated by adding data estimated for **nonrespon**dents to respondent data. Responses to the 1996 survey accounted for 87.7 percent of the total gross sales of farmer cooperatives.

RBS depends on the cooperative community's response to its annual survey to develop a detailed and comprehensive set of statistics on farmer cooperatives. The time taken by cooperatives to provide information and the timeliness with which it is furnished are greatly appreciated.

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# **Highlights**

The 1996 survey of marketing, farm supply, and related-service cooperatives showed a record net business volume, but a decrease in net income, memberships, and number of organizations.

- Total net income of \$2.25 billion was down from the record \$2.36 billion reported for 1995. The 1996 net included intercooperative dividends and refunds of \$711.9 million-up 30.9 percent from \$543.8 million.
- Total gross business volume (includes intercooperative business) handled by cooperatives increased 14.2 percent, to a record \$128.1 billion from \$112.2 billion.
- Total net business (excludes intercooperative business) was up 13.2 percent, to \$106.2 billion from \$93.8 billion.
- The number of cooperatives declined more than 3 percent, from 4,006 to 3,884.
- Grain and farm supply cooperatives operated an estimated 5,355 branches in 1996, up from 5,101 in 1995.
- Total cooperative memberships of 3,663,584 decreased 2.8 percent from 3,767,295.
- Gross value of farm products marketed by cooperatives in 1996 increased 15.8 percent from nearly \$78 billion to \$90.3 billion. Net value of these farm products, after deducting intercooperative business, was \$79.4 billion, up 14.6 percent from \$69.3 billion.
- Gross value of farm supplies handled by farmer cooperatives was up 12.2 percent, from \$31 billion to \$34.7 billion. After adjusting for intercooperative business, the increase was 11.5 percent, from \$21.2 billion to \$23.7 billion.
- Receipts for services related to marketing farm products and handling farm supplies, plus other income, were down 5.6 percent to \$3.1 billion.
- Number of full-time employees totaled 174,795 down 0.3 percent from the 175,399 reported for 1995.
- Combined assets for all farmer cooperatives increased 5.7 percent to \$42.6 billion.
   Net assets, after eliminating intercooperative investments, were up 5 percent, from \$37.3 billion to 639.2 billion.
- Total liabilities of \$25.2 billion were up 6.6 percent from \$23.6 billion.
- Net worth, or member and patron equity, was up 4.6 percent, to \$17.4 billion.
   Member and patron equity financed 40.8 percent of total assets, down from 41.3 percent in 1995 and 43.4 percent in 1994.
- Leading States in terms of number of cooperatives were Minnesota, North Dakota, Texas, and Iowa. They accounted for 1,178, or 30.3 percent, of the 3,884 farmer cooperatives.

| Highlights Capsule                | 1996                 | 1995                 | Change    |
|-----------------------------------|----------------------|----------------------|-----------|
| Number of cooperatives            | 3,884                | 4,006                | (122)     |
| Memberships                       | 3,663,584            | 3,767,295            | (103,711) |
| Gross business volume (mil. dol.) | 128,098              | 112,195              | 15,903    |
| Net business volume (mil. dol.)   | 106,182              | 93,818               | 12,364    |
| Net income (mil. dol.)            | 2,248                | 2,363                | (115)     |
| Total assets (mil. dol.)          | 42,588               | 40,274               | 2,314     |
| Net worth (mil. dol.)             | 17,392               | 16,631               | 761       |
| Full-time employees               | 174,795              | 175,399              | (604)     |
| Leading States                    | 1996                 | 1995                 |           |
| Number of cooperatives            | Minnesota<br>378     | Minnesota<br>389     | (11)      |
|                                   | 1995                 | 1993                 |           |
| Memberships                       | Minnesota<br>329,241 | Minnesota<br>392,815 | (63,574)  |
| Net business volume (mil. dol.)   | California<br>8,891  | California<br>8,349  | 542       |

# Farmer Cooperative Statistics, 1996

Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, Jacqueline E. Penn, and Charles A. Kraenzle <sup>1</sup>

# I-Definition of a Farmer Cooperative

The Rural Business-Cooperative Service (RBS) of USDA's Rural Development considers four major criteria in identifying an organization as a farmer cooperative: (1) Membership is limited to persons producing agricultural and aquacultural products, and to associations of such producers; (2) cooperative members are limited to one vote despite the amount of stock or membership capital owned, or the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; (3) business conducted with nonmembers may not exceed the value of business done with members; and (4) the cooperative operates for the mutual interest of members by providing benefits on the basis of patronage.

These criteria may create larger or smaller numbers of farmer cooperatives than found in lists or directories of State agencies or cooperative councils. RBS includes only marketing, farm supply, and related-service cooperatives on its list. Fishery cooperatives are included with miscellaneous marketing cooperatives. Wool pools are included as marketing cooperatives. Livestock shipping associations and rice drying cooperatives, beginning with 1992 and 1993, respectively, are considered service cooperatives.

Many State lists include other types, such as production, credit, telephone, electric, and consumer cooperatives, as well as those that do not meet the USDA definition. Other reasons for possible differ-

ences between the USDA list and State lists in the number of cooperatives is that: (1) USDA may not learn until sometime later of certain cooperatives operating in a State; (2) a cooperative may not have completed and returned an initial questionnaire; or (3) no notice is received that a cooperative discontinued operating.

Year-to-year comparisons for specific commodity groups, therefore, should reflect any differences in lists and classifications in State and Federal data.

# Classification of Cooperatives

Statistics are presented according to a cooperative's major function or classification-marketing, farm supply, and related-service.

<u>Marketing</u> cooperatives derive most of their total dollar volume from the sale of members' farm products. USDA classifies these cooperatives into one of 13 commodities or commodity groups depending upon which accounts for most of its business volume. USDA reclassifies a cooperative if its primary business volume changes.

<u>Farm supply</u> cooperatives derive most of their business volume from farm production supply sales including farmstead equipment and building materials. Many also handle farm and home items, such as heating oil, lawn and garden supplies and equipment, and food.

<u>Service</u> cooperatives provide specialized business services related to the agricultural business operations of farmers, ranchers, or cooperatives, such as cotton ginning, trucking, storing, drying, and artificial insemination. Livestock shipping associations were reclassified from marketing to service in 1992. Rice drying cooperatives, previously listed with rice marketing cooperatives, were added in 1993.

Many cooperatives handle multiple commodities

1

<sup>&</sup>lt;sup>1</sup> Ralph M. Richardson, agricultural statistician; Celestine C. Adams, agricultural statistician; Katherine C. DeVille, statistical assistant; Jacqueline E. Penn, statistical assistant; and Charles A. Kraenzle, director. Statistics.

and provide both marketing and farm supply services, as well as the facilities and equipment used to perform these services. These associations are classified according to the predominant commodity or function, as indicated by their business volume.

Information on other types of service cooperatives, such as Farm Credit System institutions, rural credit unions, rural electric cooperatives, and dairy herd improvement associations, is presented separately.

# Organizational Membership Structures

### Centralized

Of the 3,884 farmer cooperatives in 1996, 3,775 were centralized organizations-mostly locals with individual farmer-members. Centralized cooperatives usually serve a local area or community, county, or several counties. Most usually perform a limited number of initial marketing functions. Most farm supply sales are at the retail level. A few centralized cooperatives, principally regionals, operate over large geographic areas and have members in several States. They often provide more vertically integrated services, such as processing farm products or manufacturing feed and fertilizer.

Bargaining associations also have a centralized organizational structure. They derive all or most of their business volume from negotiating with distributors, processors, and other buyers and sellers over price, quantity, grade, terms of sale, and other factors involved in marketing farm products. Only a few bargain to purchase farm supplies. While the primary function of such an association is to bring buyers and sellers together to contract for the sale of members' products, many bargaining associations now perform additional functions.

For example, dairy bargaining associations at one time only negotiated price. Now, many perform additional functions, such as physically handling part of the milk for spot sales. They, like other dairy marketing cooperatives, represent their members at Federal and State milk marketing order hearings.

#### Federated

Federated cooperatives comprise two or more member associations organized to market farm products, purchase production supplies, or perform bargaining functions.

The 70 associations identified as federated often operate at points quite distant from their headquarters. Federated cooperative members are usually local coop-

eratives. Some federations are interregional associations whose members are regional cooperatives.

#### Mixed

A few cooperatives have both individual farmer-members and autonomous cooperative members. These associations, a combination of centralized and federated structures, serve large geographic areas, with members in many States, and provide a variety of integrated services. USDA has identified 39 such coopera tives.

# II—1996 Statistics

Cooperatives' net business volume of \$106.2 billion in 1996 was a record high. Net income of \$2.25 billion,2 however, was down from the \$2.36 billion reported for 1995. Number of cooperatives and memberships, at 3,884 and 3,663,584, respectively, were also down. Combined assets, net worth, and liabilities were all up.

# **Number of Cooperatives**

The 1996 survey accounted for 3,884 marketing, farm supply, and related-service <sup>3</sup> cooperatives, compared with 4,006 in 1995. The net decrease of 122 associations (3 percent) largely reflects a continuing trend involving dissolution, merger, or acquisition.

Of the 3,884 cooperatives, 2,012 primarily marketed farm products, 1,403 handled primarily farm production supplies, and 469 provided services related to marketing or purchasing activities (table 1).

Marketing cooperatives accounted for 51.8 percent of the total number of cooperatives, unchanged from 1995; farm supply cooperatives decreased slightly from 36.4 percent to 36.1 percent; and related-service cooperatives increased from 11.8 percent to 12.1 percent.

These changes to some extent reflect reclassification because of dollar volume changes. In any given year, sales of farm supplies or grains and oilseeds

<sup>&</sup>lt;sup>2</sup> Preliminary information released earlier in the year showed cooperatives' net income a record high in 1996. However, net income for 1996 was later revised downward due to additional information received. Net income for 1995 was also revised.

<sup>&</sup>lt;sup>3</sup> Services include trucking, cotton ginning, storage, crop drying, artificial insemination, livestock shipping, and similar services affecting the form, quality, or location of farm products and supplies. They do not include credit, electric, telephone, or other such services not directly related to marketing or purchasing activities.

could be higher due to market supply and demand conditions. During 1996, for example, grain and oilseed prices were significantly higher, resulting in a larger dollar volume of grain sales for many cooperatives.

Cooperative numbers by State and major function are shown in table 2. The leading States were Minnesota (3781, North Dakota (288), Texas (277), and Iowa (235). These four States accounted for 1,178 cooperatives, or 30.3 percent of the total. A cooperative's location is based on its headquarters.

The 10 leading States in terms of number of cooperatives are shown in figure 1. It also shows the number of cooperatives by function in each State. For example, Minnesota had about the same number of marketing and farm supply cooperatives. Texas' majority were service cooperatives, mainly cotton gins. In Wisconsin, the fifth leading State, farm supply cooperatives were the most numerous. South Dakota, Iowa, and Nebraska had the fewest service cooperatives. California, on the other hand, had the smallest number of farm supply cooperatives.

Table 1— Number of cooperatives and memberships, by major business activity, 1996

| , ,                        | • •          |                |
|----------------------------|--------------|----------------|
| Major business activity    | Cooperatives | Memberships    |
|                            | Nur          | mber           |
| Beans and peas, dry edible | 9            | 4,013          |
| Cotton                     | 16           | 42,561         |
| Dairy                      | 237          | 111,374        |
| Fruits and vegetables      | 267          | 46,799         |
| Grains and oilseeds 1      | 1,066        | 783,427        |
| Livestock                  | 69           | 278,826        |
| Nuts                       | 19           | 48,036         |
| Poultry <sup>2</sup>       | 16           | 32,320         |
| Rice                       | 19           | 14,831         |
| Sugar                      | 49           | 11,800         |
| Tobacco                    | 26           | 266,693        |
| Wool and mohair            | 97           | 17,492         |
| Miscellaneous              | <u>102</u>   | <u>74.236</u>  |
| Total marketing            | 2,012        | 1,682,408      |
| Farm supply                | 1,403        | 1,794,671      |
| Service                    | <u>469</u>   | <u>186.505</u> |
| Total                      | 3,884        | 3,663,584      |

<sup>1</sup> Excludes cottonseed. Cottonseed sales were included with cotton. Cottonseed meal and oil were included with feed and miscellaneous. respectively.

Table 2— Number of **cooperatives**, 1 by **major** function and State, 1996 <sup>2</sup>

|                |           |      | Major func | tion    |       |
|----------------|-----------|------|------------|---------|-------|
| State          | Marketing | Farm | Supplies   | Service | Total |
|                |           |      | Number     |         |       |
| Alabama        | 11        |      | 48         | 5       | 64    |
| Alaska         | 10        |      |            | _       | 10    |
| Arkansas       | 15        |      | 41         | 6       | 62    |
| California     | 117       |      | 19         | 48      | 184   |
| Illinois       | 134       |      | 67         | 5       | 206   |
| Iowa           | 159       |      | 73         | 3       | 235   |
| Kansas         | 128       |      | 21         | 4       | 153   |
| Louisiana      | 18        |      | 22         | 13      | 53    |
| Maryland       | 3         |      | 15         | 3       | 21    |
| Massachusetts  | 10        |      | 4          |         | 14    |
| Michigan       | 46        |      | 30         | 5       | 81    |
| Minnesota      | 180       |      | 156        | 42      | 378   |
| Mississippi    | 23        |      | 38         | 25      | 86    |
| Montana        | 42        |      | 39         | _       | 81    |
| Nebraska       | 86        |      | 45         | 3       | 134   |
| New York       | 76        |      | 11         | 5       | 92    |
| North Dakota   | 163       |      | 116        | 9       | 288   |
| Ohio           | 70        |      | 20         | 7       | 97    |
| Oklahoma       | 51        |      | 30         | 26      | 107   |
| Pennsylvania   | 48        |      | 7          | 7       | 62    |
| South Dakota   | 77        |      | 72         |         | 149   |
| Texas          | 66        |      | 51         | 160     | 277   |
| Vermont        | 6         |      | _          | _       | 6     |
| Washington     | 57        |      | 31         | 4       | 92    |
| West Virginia  | 14        |      | 13         | _       | 27    |
| Wisconsin      | 47        |      | 125        | 50      | 222   |
| Wyoming        | 7         |      | 6          |         | 13    |
| Other States 3 | 348       |      | 303        | 39      | 690   |
| United States  | 2,012     | 1,   | 403        | 469     | 3,884 |

<sup>- =</sup> None identified.

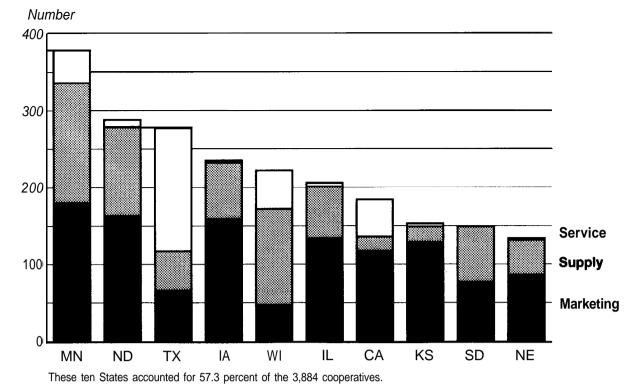
<sup>&</sup>lt;sup>2</sup> Includes eggs, turkeys, ratite, squab, and related products.

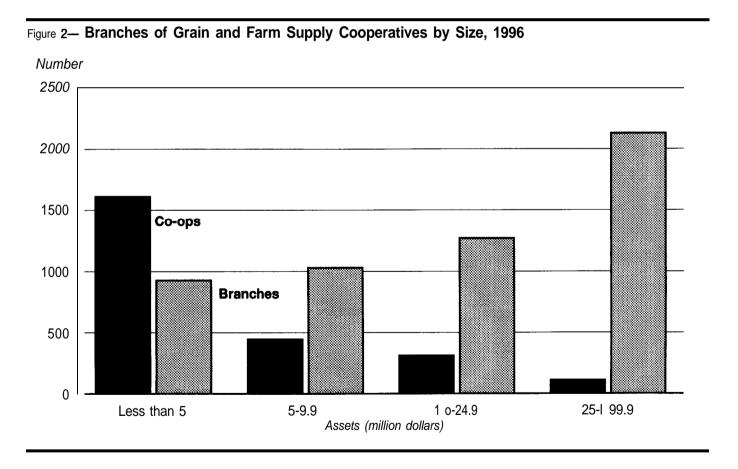
<sup>1</sup> Includes centralized and federated cooperatives and those with mixed organizational structures.

<sup>2</sup> Data covering operations of cooperatives for fiscal years that ended in 1996.

<sup>3</sup> Includes States with fewer than three cooperatives for any function. States with three or more cooperatives were: Arizona, 10; Colorado, 64; Connecticut, 4; Delaware, 3; Florida, 50; Georgia, 21; Hawaii, 33; Idaho, 42; Indiana, 62; Kentucky, 44; Maine, 23; Missouri, 72; New Jersey, 19; New Mexico, 9; North Carolina, 26; Oregon, 39; South Carolina, 6; Tennessee, 79; Utah, 21; Virginia, 66.

Figure 1— Number of Cooperatives by Function, Leading States, 1996





# Grain and Farm Supply Branches

Many cooperatives operate facilities at branch locations to better serve their members. Most are owned, although some are leased. A number were formerly independent cooperatives serving a local community. For economic or other reasons, many were acquired by or merged with other cooperatives and operated as branches from which to serve members and patrons at outlying locations.

As shown in table 3 and figure 2, grain and farm supply cooperatives operated an estimated 5,355 branches-2,326 and 3,029, respectively. In 1995, grain and farm supply cooperatives operated an estimated 5,101 branches.

Figure 2 shows that several of the largest (mainly regional) cooperatives had more branches than many smaller (local) cooperatives combined. For example, the 43 largest grain cooperatives, or 4 percent of their

total number, accounted for 29.7 percent of the total number of branches operated by grain cooperatives.

# **Memberships**

Memberships in marketing, farm supply, and related-service cooperatives totaled **3,663,584** in 1996, down 2.8 percent from **3,767,295** in 1995 (table 1).

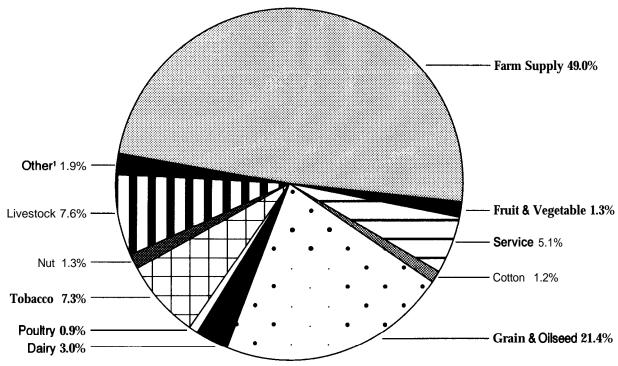
By type, 49 percent were memberships of farm supply cooperatives (figure 3), 21.4 percent of grain, and 20 percent of livestock, tobacco, and service. Only 3 percent of cooperatives' total memberships were of dairy cooperatives, which accounted for 21.6 percent of cooperatives' net business volume in 1996.

# **Business Size**

Farmer cooperatives, measured by gross business volume, increased in size. Most remain small and serve local areas. Several are actively seeking regional,

|      |             |         | Asset Group (million   | dollars)    |        |
|------|-------------|---------|------------------------|-------------|--------|
| Year | Less than 5 | 5 • 9.9 | 10 - 24.9              | 25 or more  | Total  |
|      |             |         | Number of Grain Cod    | operatives  |        |
| 1992 | 902         | 211     | 114                    | 16          | 1, 243 |
| 1993 | 808         | 233     | 131                    | 21          | 1, 193 |
| 1994 | 772         | 226     | 138                    | 24          | 1, 160 |
| 1995 | 658         | 223     | 174                    | 35          | 1, 090 |
| 1996 | 618         | 229     | 176                    | 43          | 1, 066 |
|      |             |         | Number of Bran         | nches       |        |
| 1992 | 441         | 480     | 529                    | 417         | 1, 867 |
| 1993 | 410         | 479     | 688                    | 488         | 2, 065 |
| 1994 | 408         | 535     | 674                    | 424         | 2, 041 |
| 1995 | 399         | 440     | <b>756</b>             | 577         | 2, 172 |
| 1996 | 387         | 505     | 743                    | 691         | 2. 328 |
|      |             | Nu      | nber of Farm Supply Co | ooperatives |        |
| 1992 | 1,332       | 176     | 45                     | 65          | 1, 618 |
| 1993 | 1,206       | 185     | 96                     | 60          | 1, 547 |
| 1994 | 1, 129      | 201     | 99                     | 68          | 1, 497 |
| 1995 | 1, 060      | 213     | 120                    | 65          | 1, 458 |
| 1996 | 991         | 215     | 131                    | 66          | 1, 403 |
|      |             |         | Number of Bran         | ches        |        |
| 1992 | 724         | 482     | 208                    | 1, 363      | 2, 777 |
| 1993 | 642         | 455     | 297                    | 1, 320      | 2, 714 |
| 1994 | 610         | 468     | 344                    | 1, 365      | 2, 787 |
| 1995 | 571         | 502     | 460                    | 1, 396      | 2, 929 |
| 1996 | 542         | 523     | <b>526</b>             | 1, 438      | 3, 029 |

Figure 3— Distribution of Total Cooperative Memberships by Type of Cooperative, 1996



Percent based on 3,663,584 memberships.

national, and even international markets to increase business volume.

The increased size of individual cooperatives comes in part from mergers and acquisitions. However, data used were not adjusted for changes in price levels, and some size changes resulted from inflationary effects.

In 1996, 75.4 percent of all farmer cooperatives reported business volumes of less than \$15 million, down from 78.5 percent in 1995. They accounted for only 10.2 percent of the total gross dollar volume (table 4 and figure 4). Only 1.8 percent of farmer cooperatives reported business volumes of at least \$250 million in 1996. These cooperatives, however, accounted for 59.3 percent of the total business volume, up from 57.9 percent in 1995.

# **Business Volume**

Total gross business volume of the 3,884 marketing, farm supply, and related-service cooperatives for 1996 was a record \$128.1 billion (table 5), up 14.2 percent from the previous record of \$112.2 billion in 1995.

Total net business volume of farmer cooperatives in 1996 was \$106.2 billion-\$79.4 billion for farm prod-

ucts marketed, \$23.7 billion for farm supplies sold, and \$3.1 billion for services provided and from other income. The total net figure, which excludes intercooperative business (the difference between gross and net business volumes), increased 13.2 percent from \$93.8 billion in 1995. However, adjusting for price change, net business volume increased only 5.7 percent. 4

Gross volume of farm products marketed by cooperatives increased 15.8 percent, from \$77.9 billion in 1995 to \$90.3 billion in 1996. The net volume of farm products marketed was \$79.4 billion, or 74.8 percent of the total net volume of cooperatives. This represents an increase of 14.6 percent from \$69.3 billion.

Figure 5 illustrates the leading products marketed by cooperatives based on net marketing business volume. Grains and oilseeds (excluding cottonseed) led with 34.8 percent, followed by milk and milk products with 28.9 percent. Fruits and vegetables ranked third with 11.8 percent of net marketing business

Includes dry bean and pea, wool and mohair, rice, sugar, and miscellaneous marketing cooperatives.

<sup>4</sup> Deflated 1996 cooperative business volume was \$99.2 billion, up 5.7 percent from the actual \$93.8 billion in 1995. The \$99.2 billion was derived by deflating farm products marketed by the index of prices received for all farm products (1982 = 100), and farm supplies (inputs) and service income by the index of prices paid by farmers for production items (1982 = 100).

Figure 4— Distribution of Farmer Cooperatives and Gross Business Volume, by Size, 1996

# Percent of total

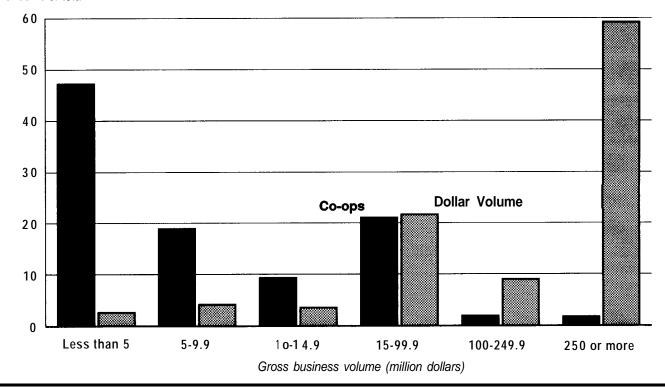


Table 4— Farmer cooperatives grouped by gross business volume, 1996 1

| Volume group          | Coo    | peratives        | Dollar v                       | rolume           |
|-----------------------|--------|------------------|--------------------------------|------------------|
| (mil. dol.)           | Number | Percent of total | Gross <sup>2</sup> (mil. dol.) | Percent of total |
| Less than 5.0         | 1, 834 | 47. 2            | 3,375.3                        | 2.6              |
| 5 - 9.9               | 733    | 18. 9            | 5,254.8                        | 4.1              |
| 10 - 14.9             | 362    | 9.3              | 4,458.9                        | 3. 5             |
| 15 - 24.9             | 349    | 9. 0             | 6,723.3                        | 5. 2             |
| 25- 49.9              | 326    | 8.4              | 11,354.1                       | 8. 9             |
| 50- 99. 9             | 140    | 3.6              | 9,525.6                        | 7.4              |
| 100 - 199.9           | 56     | 1.4              | 7,947.9                        | 6. 2             |
| 200 - 249.9           | 16     | 0.4              | 3,591.4                        | 2.8              |
| 250 - 499.9           | 30     | 0.8              | 11,237.4                       | 8. 8             |
| 500 - 999.9           | 20     | 0.5              | 13,962.7                       | 10.9             |
| 1,000 and <b>more</b> | 18     | 0. 5             | 50,667.1                       | 39. 6            |
| Total                 | 3, 884 | 100. 0           | 128,098.5                      | 100. 0           |

<sup>&</sup>lt;sup>1</sup> Business volume includes revenues from marketing plus the value of products bargained for or handled on a commission basis, supply sales, service receipts, and other income.

<sup>&</sup>lt;sup>2</sup> Includes intercooperative business volume. Total may not add due to rounding.

volume. In 1995, grains and **oilseeds** accounted for 28.7 percent and milk and milk products 31.4 percent.

Gross volume of all farm supplies handled by cooperatives was \$34.7 billion, up 12.2 percent from \$31 billion in 1995. Net farm supply volume of \$23.7 billion accounted for 22.3 percent of the total net business volume, up 11.5 percent from \$21.2 billion.

Sales of all farm supply items were up from 1996. The leading farm supplies handled by cooperatives in terms of net farm supply business volume were petroleum, 26.6 percent, up from 24.6 percent in 1995; feed, 22.8 percent; and fertilizer, 22 percent (figure 6).

Receipts for services performed by marketing, farm supply, and related-service cooperatives, plus other income, amounted to \$3.1 billion, down 5.6 percent. Service receipts and other income represented 2.9 percent of total net business volume.

The 1995 estimated volume of farm products

| Commodity  | Gross vol       | ume                            | Net volu        | ıme         |
|--|-----------------|--------------------------------|-----------------|-------------|
|  | Million dollars | Percent                        | Million dollars | Percent     |
| Products marketed:                                   |                 |                                |                 |             |
| Beans and peas (dry edible)                          | 179.0           | 0.1                            | 179.0           | 0.2         |
| Cotton   | 2,734.9         | 2.1                            | 2,658.6         | 2.5         |
| Dairy  | 25,969.5        | 20.3                           | 22,934.5        | 21.6        |
| Fruits and vegetables                                | 9,914.3         | 7.7                            | 9,392.0         | 8.8         |
| Grains and <b>oilseeds</b>                           |                 |                                |                 |             |
| excluding cottonseed                                 | 33,889.4        | 26.5                           | 27,656.9        | 26.1        |
| ivestock   | 6,745.6         | 5.3                            | 6,725.2         | 6.3         |
| Nuts   | 951.6           | .7                             | 951.6           | .9          |
| Poultry 3  | 2,122.7         | 1.7                            | 1,754.1         | 1.7         |
| lice   | 901 <b>.1</b>   | 0.7                            | 899.6           | 0.6         |
| Sugar  | 2,015.8         | 1.6                            | 1,933.3         | 1.8         |
| obacco   | 1,412.0         | 1.1                            | 1,412.0         | 1.3         |
| ool and mohair                                       | 13.3            | <b>(</b> <sup>2</sup> <b>)</b> | 7.9             | <b>(</b> 2) |
| 1iscellaneous 4                                      | 3.420.5         | 2.7                            | 2,923.6         | 2.8         |
| Total farm products                                  | 90. 269. 7      | 70.5                           | 79,428.6        | 74.6        |
| supplies purchased:                                  |                 |                                |                 |             |
| Crop protectants                                     | 3,929.1         | 3.1                            | 2,829.2         | 2.7         |
| eed  | 7,367.3         | 5.8                            | 5,388.0         | 5.1         |
| ertilizer  | 8,727.2         | 6.8                            | 5,200.6         | 4.9         |
| etroleum   | 9,752.7         | 7.6                            | 6,295.2         | 5.9         |
| eed  | 879.0           | 0.7                            | 658.5           | 0.6         |
| ther supplies <sup>5</sup>                           | 4,072.9         | 3.2                            | 3,281.3         | 3.1         |
| Total farm supplies                                  | 34,728.3        | 27.1                           | 23,652.6        | 22.3        |
| Services provided:                                   |                 |                                |                 |             |
| rucking, cotton ginning,                             |                 |                                |                 |             |
| storage, grinding, locker plants, misc. <sup>6</sup> | 3,100.4         | 2.4                            | 2 100 4         | 2.0         |
| •  |                 |                                | 3,100.4         | 2.9         |
| Total business                                       | 128,098.5       | 100.0                          | 106,181.6       | 100.0       |

<sup>1</sup> Gross includes and net excludes intercooperative business. Totals may not add due to rounding.

<sup>&</sup>lt;sup>2</sup> Less than 0.05 percent.

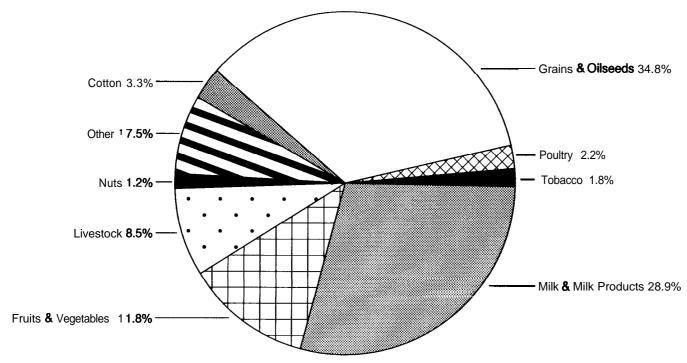
<sup>3</sup> Includes eggs, turkeys, ratite, squab, and related products.

<sup>4</sup> Includes coffee, fish, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons. Also includes manufactured food products and resale items marketed by cooperatives.

<sup>&</sup>lt;sup>5</sup> Includes building materials, containers and packaging supplies, farm machinery and equipment, meats and groceries, automotive supplies, hardware, chicks, and other supplies not separately classified.

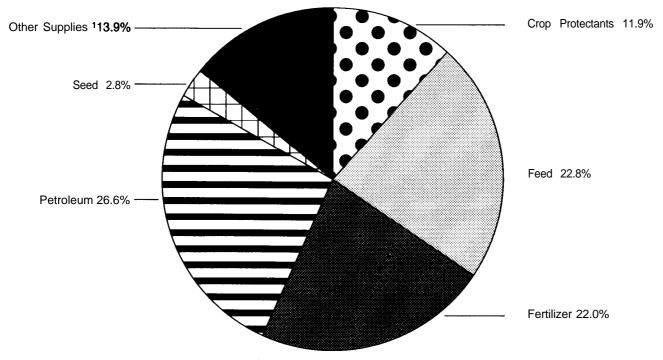
<sup>6</sup> Charges for services related to marketing or purchasing not included in the volume reported for those activities, plus other income.

Figure 5— Relative Importance of Farm Products Marketed by Cooperatives, 1996



Percent based on a net marketing business volume of \$79.4 billion.

Figure 6— Relative Importance of Farm Supplies Handled by Cooperatives, 1996



Percent based on a net farm supply business volume of \$23.7 billion.

<sup>&</sup>lt;sup>1</sup> Includes dry beans and peas, wool and mohair, rice, sugar and miscellaneous marketings.

<sup>&</sup>lt;sup>1</sup> Includes building materials; tires, batteries, and accessories: equipment; animal health products; pet food; semen; hardware; food; clothing; etc.

marketed, farm supplies sold, and services provided by cooperatives is shown by State in appendix table 2.

# **Net Income**

Total net income (considering losses and before taxes) for all cooperatives in 1996 was \$2.25 billion. This includes intercooperative dividends and refunds (table 6). Cooperatives operating strictly on a pooling basis were excluded. Net income was down 4.9 percent from the record of \$2.36 billion in 1995. Patronage refunds received from other cooperatives of \$711.9 million was up a robust 30.9 percent from \$543.8 million. Most of the increase, \$168.1 million, in patronage refunds was received by grain and farm supply cooperatives. In 1996, farm supply and grain cooperatives accounted for 46.2 percent and 31.2 percent, respectively, of the patronage refunds received from other cooperatives.

Marketing cooperatives' net income of \$1,181 million was down 16.8 percent from the \$1,418.7 million generated in 1995. Cooperatives handling primarily grains and oilseeds accounted for 31.9 percent of the net income in 1996, milk and milk products 31.7 percent, and livestock and poultry 18.9 percent.

Together, they accounted for the largest proportion (82.5 percent) of marketing cooperatives' net income and 43.4 percent of total net income of all cooperatives.

Farm supply cooperatives accounted for 41.9 percent of cooperatives' total net income in 1996, compared with 34.2 percent in 1995. Income from farm supply cooperatives' own operations was \$612.4 million (figure 7), compared with \$557.8 million in 1995, an increase of 9.8 percent. Refunds from other cooperatives of \$329 million was up from \$250.4 million.

Farmer cooperatives' net income from own operations in 1996 totaled \$1,536.6 million-down 15.6 percent from \$1,819.7 million. Nearly 31.7 percent, or \$711.9 million, of total net income was dividends and patronage refunds from other cooperatives, up from \$543.8 million in 1995. Marketing cooperatives' net income from other cooperatives totaled \$352.1 million and accounted for 29.8 percent of their total. Grain cooperatives' net income from other cooperatives was \$222.2 million, or 58.9 percent of their total.

Income before losses equaled \$2435.3 million. Losses from an estimated 530 cooperatives totaled \$187.8 million in 1996, compared with \$98.1 million in 1995.

| Principal products          |                     | Total   | Income          | Income     |
|-----------------------------|---------------------|---------|-----------------|------------|
| marketed and                | co-ops <sup>2</sup> | net     | from own        | from other |
| major function              |                     | income  | operations      | coops 3    |
|                             | Number              |         | Million dollars |            |
| Products marketed:          |                     |         |                 |            |
| Cotton                      | 16                  | 84.2    | 83.5            | 0.7        |
| Dairy                       | 237                 | 373.9   | 265.7           | 106.2      |
| Fruits & vegetables         | 267                 | 56.0    | 52.7            | 5.3        |
| Grains and oilseeds         |                     |         |                 |            |
| excluding cottonseed        | 1,066               | 377.0   | 154.9           | 222.2      |
| Livestock and poultry       | 105                 | 223.5   | 212.5           | 11.0       |
| Rice                        | 19                  | 12.3    | 12.3            |            |
| Sugar                       | 49                  | 9.1     | 9.0             | 0.04       |
| Other products <sup>4</sup> | 253                 | 42.9    | 36.3            | 4.7        |
| Total farm products         | 2,012               | 1,181.0 | 829.0           | 352.1      |
| Total farm supplies         | 1,403               | 941.5   | 612.4           | 329.0      |
| Total related services      | 469                 | 125.0   | 94.2            | 30.8       |
| Combined total              | 3,884               | 2,247.5 | 1,535.6         | 711.9      |

<sup>- =</sup> Less than .05 million.

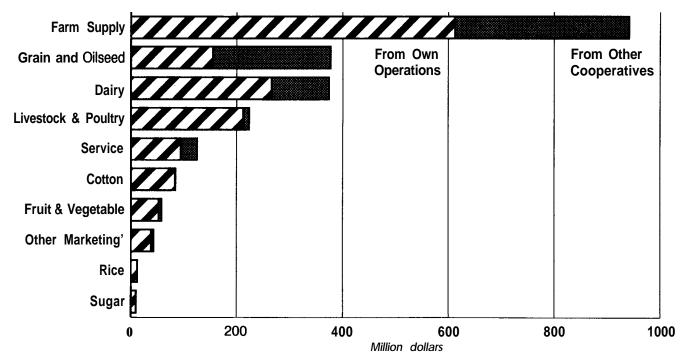
<sup>&</sup>lt;sup>1</sup> Number of cooperatives includes those operating on a pooling rather than a net margin basis. Totals may not add due to rounding.

<sup>&</sup>lt;sup>2</sup> Many cooperatives have multi-product and multi-function operations. Most are classified according to predominant commodity or function as indicated by business volume.

<sup>&</sup>lt;sup>3</sup> Excludes patronage refunds from CoBank and Bank for Cooperatives.

<sup>4</sup> Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Figure 7— Cooperatives' Net Income by Cooperative Type, 1996



<sup>&</sup>lt;sup>1</sup> Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

| Principal products marketed |            |              |                   |           |
|-----------------------------|------------|--------------|-------------------|-----------|
| and major function          | co-ops 2   | Total assets | Total liabilities | Net worth |
|                             | Number     |              | Million dollars   |           |
| Products marketed:          |            |              |                   |           |
| Cotton                      | 16         | 778.4        | 428.2             | 350.2     |
| Dairy                       | 237        | 5,679.3      | 3,506.9           | 2,172.4   |
| Fruits & vegetables         | 267        | 5,275.2      | 3,682.2           | 1,593.0   |
| Grains and oilseeds         |            |              |                   |           |
| excluding cottonseed        | 1,066      | 9,445.8      | 5,612.7           | 3,833.0   |
| Livestock and poultry       | 105        | 4,048.6      | 2,788.0           | 1,260.6   |
| Rice                        | 19         | 578.1        | 343.1             | 235.0     |
| Sugar                       | 49         | 1,085.5      | 648.7             | 436.7     |
| Other products <sup>3</sup> | <u>253</u> | 3,015.2      | 1,831.8           | 1,183.4   |
| Total farm products         | 2,012      | 29,906.0     | 18,841.6          | 11,064.3  |
| Total farm supplies         | 1,403      | 11,848.1     | 6,065.1           | 5,782.9   |
| Total related services      | 469        | 833.4        | 288.6             | 544.8     |
| Combined total              | 3,684      | 42,587.5     | 25,195.4          | 17,392.1  |

<sup>&</sup>lt;sup>1</sup> Totals may not add due to rounding.

<sup>&</sup>lt;sup>2</sup> Many cooperatives have **multi-product** and multi-functional operations. Most are classified according to predominant **commodity** or function, as indicated by business volume.

<sup>&</sup>lt;sup>3</sup> Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

#### **Balance Sheet**

Combined assets for all farmer cooperatives totaled nearly \$42.6 billion in 1996, up 5.7 percent from \$40.3 billion in 1995 (table 7). Excluding intercooperative investments, assets of cooperatives totaled \$39.2 billion, compared with \$37.3 billion, a 5-percent increase.

Total liabilities were \$25.2 billion, up 6.6 percent from \$23.6 billion in 1995. Net worth, or member and patron equity, was \$17.4 billion, up 4.6 percent from \$16.6 billion in 1995. The proportion of total assets financed by member and patron equity decreased from 41.3 percent to 40.8 percent.

Net worth of all marketing cooperatives totaled \$11.1 billion, up 3.4 percent from 1995. Marketing cooperatives accounted for 63.6 percent of farmer cooperatives' combined net worth, down from 64.3 percent in 1995. The net worth figure for farm supply cooperatives was 33.3 percent of the total, up from 32.6 percent.

For marketing cooperatives, the highest percentage of total assets represented by net worth shown in table 7 (45 percent) was for those primarily marketing cotton and cotton products. The lowest, 30.2

percent, was for cooperatives primarily marketing fruits and vegetables (figure 8). Cooperatives classified as farm marketing and farm supply had 37 percent and 48.8 percent, respectively, of their assets financed by net worth.

Of the \$42.6 billion in total assets, marketing cooperatives accounted for \$29.9 billion, up 6.9 percent from 1995. Cooperatives principally handling grains and oilseeds (excluding cottonseed) had total assets of \$9.4 billion in 1996 and \$8.8 billion in 1995, up 7.4 percent. Among marketing cooperatives, those with primarily grain also maintained the largest proportion of investments in other cooperatives in both 1996 (11.4 percent) and 1995 (10.8 percent). Dairy cooperatives had 9 percent of their assets invested in other cooperatives (table 8).

Assets of marketing cooperatives, excluding investments in other cooperatives, were \$28.1 billion, up 6 percent from 1995.

Farm supply cooperatives had total assets of \$11.8 billion, compared with \$11.5 billion in 1995, up 3.3 percent. Excluding intercooperative investments, assets amounted to \$10.3 billion in 1996, up 2.9 percent from 1995.

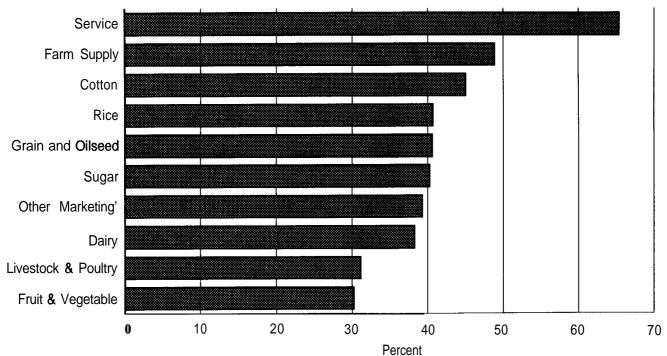
| Principal products<br>marketed and<br>major function | co-ops <sup>2</sup> | Assets of own operations | Investments in other co-ops | Total<br>assets | Investments in<br>other co-ops as<br>percent of total |
|--|---------------------|--------------------------|-----------------------------|-----------------|---|
|  | Number              |                          | Million dollars             |                 | Percent   |
| Products marketed:                                   |                     |                          |                             |                 |   |
| Cotton   | 16                  | 776.5                    | 1.9                         | 776.4           | 0.2   |
| Dairy  | 237                 | 5,170.1                  | 509.1                       | 5,679.3         | 9.0   |
| Fruits & vegetables                                  | 267                 | 5,204.9                  | 70.3                        | 5,275.2         | 1.3   |
| Grains and <b>oilseeds</b>                           |                     |                          |                             |                 |   |
| excluding cottonseed                                 | 1,066               | 8,370.6                  | 1,075.1                     | 9,445.8         | 11.4  |
| Livestock and poultry                                | 105                 | 3,969.3                  | 79.4                        | 4,048.6         | 2.0   |
| Rice   | 19                  | 577.6                    | .5                          | 578.1           | .1  |
| Sugar  | 49                  | 1,043.9                  | 41.5                        | 1,085.5         | 3.6   |
| Other products <sup>3</sup>                          | 253                 | 2,982.4                  | 32.6                        | 3,015.2         | 1.1   |
| Total farm products                                  | 2,012               | 28,095.3                 | 1,810.7                     | 29,906.0        | 6.1   |
| Total farm supplies                                  | 1,403               | 10,341.4                 | 1,506.7                     | 11,848.1        | 12.7  |
| Total selected services                              | 469                 | 756.3                    | 77.2                        | 633.4           | 9.3   |
| Combined total                                       | 3,664               | 39,193.0                 | 3,394.5                     | 42,587.5        | 6.0   |

<sup>1</sup> Totals may not add due to rounding.

<sup>&</sup>lt;sup>2</sup> Many cooperatives have multi-product and multi-functional operations. Most are classified according to predominant commodity or function indited by business volume.

<sup>3</sup> Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Figure 8— Percentage of Cooperatives' Assets Financed by Net Worth, by Cooperative Type, 1996



<sup>&</sup>lt;sup>1</sup> Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

#### Selected Financial Ratios

Financial ratios are often used to show the relationship between items in the financial and income statements of a business operation and help in analyzing a cooperative's economic and financial situation.

While financial ratios can indicate problem areas, they cannot solve problems. They do serve as a guideline for planning purposes and aid in formulating actions. Care must be taken in their use because both items used to calculate a ratio are subject to considerable variation. How a ratio is interpreted is largely subjective.

Several financial ratios were selected to give some indication of cooperative performance-return on assets, net worth-to-assets, return on sales, total sales-to-assets, and the current ratio.

The return on assets and return on sales ratios indicate profitability. The net worth-to-assets ratio provides some indication of a cooperative's ability to meet long-term financial obligations. The total sales-to-assets ratio (asset turnover ratio) shows how efficiently a cooperative is using its assets. The current ratio (current assets divided by current liabilities) measures a cooperative's ability to meet current obligations.

Table 9 lists the values of these ratios for the cooperatives reporting to USDA. Extreme values (high and low ratios) were excluded so that the ratios would be more representative of the cooperatives reporting. For the predominant types of cooperatives (dairy, fruit and vegetable, grain, and farm supply), ratios are also shown for cooperatives by selected asset category. These ratios offer cooperative leaders a general barometer when comparing their operations with others of the same type (and/or size).

The return on assets (net income/assets) varied considerably. Generally, cooperatives with assets in the \$2.5 million to \$25 million range had the highest return on assets. It was 8.9 percent for dairy, 6 percent for fruit and vegetable, 4.5 percent for grain, and 6.8 percent for farm supply cooperatives.

The return on sales (net income/total sales) ranged from a negative 0.2 percent for the smallest grain cooperatives to a high of 15.1 percent for cotton ginning cooperatives. However, it was between 1 percent and 3 percent for most type and size groups.

The sales-to-assets ratio ranged from 1 for service cooperatives to 11.9 for livestock cooperatives. Among dairy, fruit and vegetable, and grain cooperatives to some extent, the ratio tended to decrease as size of

| Type of <b>co-op</b> and assets group (mil. dol.) | Return on assets <sup>2</sup> | Net worth to assets 3 | Return<br>on sales 4 | Sales to assets 4 | Current ratio 5 |
|---|-------------------------------|-----------------------|----------------------|-------------------|-----------------|
|   |                               | Percent               |                      | Nι                | ımber           |
| Ory beans and peas                                | 3.3                           | 32.9                  | 1.8                  | 1.8               | 1.2             |
| Cotton  | 11.6                          | 45.4                  | 3.2                  | 3.6               | 1.4             |
| Dairy   | 6.6                           | 35.9                  | 1.5                  | 4.4               | 1.2             |
| Less than \$0.5                                   | 6.1                           | 54.1                  | .4                   | 4.9               |                 |
| \$0.5 <b>99</b>                                   | 3.5                           | 64.4                  | .6                   | 5.5               | 1.6             |
| \$1 .o <b>-</b> 2.49                              | 7.8                           | 53.6                  | 1.1                  | 7.0               | 1.3             |
| \$2.5 <b>-</b> 24.99                              | 8.9                           | 40.7                  | 1.3                  | 6.8               | 1.1             |
| \$25.0 <b>-</b> 99.99                             | 8.0                           | 36.2                  | 1.6                  | 5.2               | 1.2             |
| 6100.0 <del>-</del> 499.99                        | 4.6                           | 35.8                  | 1.0                  | 4.7               | 1.2             |
| Fruit and vegetable                               | .5                            | 29.1                  | .3                   | 1.8               | 1.3             |
| Less than \$0.5                                   | . <b>3</b><br>2.8             | 52.0                  | .s<br>.5             | 5.6               | 1.3             |
| •   |                               |                       |                      |                   |                 |
| \$0.5 <b>99</b>                                   | 7.0                           | 70.1                  | 2.0<br><b>03</b>     | 3.6               | 2.4             |
| \$1 .o <b>-</b> 2.49                              | -4.0                          | 61.4                  |                      | 4.7               | 2.1             |
| \$2.5 - 24.99                                     | 6.0                           | 40.3                  | 1.8                  | 3.3               | 1 .0            |
| \$25.0 <b>-</b> 99.99                             | .3                            | 40.7                  | .2                   | 1.9               | 1.2             |
| \$100.0 <b>-</b> 499.99                           | 1.7                           | 27.6                  | .9                   | 2.0               | 1.2             |
| Grain and <b>oilseed</b> <sup>6</sup>             | 3.8                           | 38.7                  | 1 .0                 | 4.0               | 1.2             |
| Less than \$0.5.                                  | -1 .0                         | 71.7                  | 2                    | 5.1               | 6.8             |
| 0.5 <b>– .99</b>                                  | 2.4                           | 78.2                  | .5                   | 5.4               | 2.8             |
| \$1 .o <del>-</del> 2.49                          | 3.8                           | 66.2                  | 1 .0                 | 4.0               | 1.6             |
| <b>\$2.5 -</b> 24.99                              | 4.5                           | 47.9                  | 1.3                  | 3.5               | 1.3             |
| \$25.0 <b>-</b> 99.99                             | 4.2                           | 31.6                  | 1.6                  | 2.7               | 1.1             |
| ivestock  | .9                            | 28.5                  | .1                   | 11.9              | 1.2             |
| Nut   | .3                            | 37.3                  | .2                   | 2.2               | 1.5             |
| Poultry   | 4.1                           | 33.6                  | 1.6                  | 2.6               | 1.2             |
| Rice  | 4.2                           | 42.0                  | 2.0                  | 2.1               | 1.3             |
| Sugar   | 1.2                           | 40.3                  | .9                   | 1.4               | 1.3             |
| obacco  | 3.6                           | 61.7                  | 2.3                  | 1.6               |                 |
| Miscellaneous marketing                           | 8.2                           | 43.8                  | 2.2                  | 3.6               | 1.9             |
| shery   | 2.1                           | 47.0                  | _                    | 2.4               |                 |
| arm supply  | 9.4                           | 51.7                  | 4.7                  | 2.0               | 1.5             |
| Less than \$0.5                                   |                               |                       |                      |                   |                 |
| SO.5 <b>– .99</b>                                 | 1.5<br>4.4                    | 75.3<br>74.1          | <b>.4</b><br>1.4     | 3.8<br>3.1        | 2.5<br>2.3      |
| \$1 .o <b>=</b> 2.49                              | 6.6                           | 74.1<br>71 .0         | 3.1                  | 2.2               | 2.3             |
| \$2.5 <del>-</del> 24.99                          | 6.8                           | 71.0<br>57.9          |                      | 2.2               | 1.5             |
| \$25.0 <b>=</b> 99.99                             | 3.5                           |                       | 3.2                  |                   |                 |
| \$25.0 <b>-</b> 99.99<br>\$100.0 <b>-</b> 499.99  |                               | 38.0                  | 1.4                  | 2.5               | 1.4             |
|   | 7.4                           | 43.0                  | 3.0                  | 2.5               | 1.4             |
| Service   | 9.5                           | 67.2                  | 9.0                  | 1.0               | 1.8             |

<sup>- =</sup> Data not available.

Cotton gins

64.9

21.1

15.1

1.4

1.5

<sup>&</sup>lt;sup>1</sup> Based on cooperatives reporting. Excludes strictly bargaining or pooling cooperatives. Ratios were calculated by summing the individual items and dividing. No attempt was made to include the same cooperatives in each group to calculate all flve ratios. Extreme values not representative of the group were excluded.

<sup>&</sup>lt;sup>2</sup> Calculated by dividing net income (before any income taxes are deducted) by total assets. In calculating a return on assets, some financial experts would include interest paid in net income. Interest paid was not included in net income.

<sup>3</sup> Net worth, or member equity, is the value of the assets owned by members. The ratio was calculated by dividing total net worth by total assets.

<sup>4</sup> Total sales includes service receipts and other income and patronage refunds received from other cooperatives, CoBank and Bank for Cooperatives. The return on sales was found by dividing net income by total sales.

<sup>&</sup>lt;sup>5</sup> The current ratio was derived by dividing current assets by current liabilities. These data were taken from annual reports where provided. In some cases, data were not available.

<sup>&</sup>lt;sup>6</sup> Exdudes cottonseed.

cooperative increased. Generally, this reflects the large investment in processing or manufacturing equipment typical of the larger dairy and fruit and vegetable cooperatives. The sales-to-assets ratios for farm supply cooperatives did not vary much with size of cooperative. Most farm supply cooperatives are not as involved in manufacturing or processing as are the dairy and fruit and vegetable cooperatives.

The generally high sales-to-assets ratios for the smaller cooperatives as well as for some types of cooperatives is due to their involvement in bargaining or other marketing functions not requiring major investments in plant and equipment.

The current ratio (current assets/current liabilities) ranged from 1 for fruit and vegetable cooperatives with assets of \$2.5 million to \$25 million to 6.8 for the smallest grain cooperatives. Current ratios tended to be higher for the medium- and smaller-sized cooperatives than for the larger ones because larger cooperatives generally finance a greater proportion of their assets with borrowed capital.

# **Fertilizer Operations of Local Cooperatives**

Additional information was requested of local cooperatives with estimated fertilizer sales in excess of \$0.5 million. Data were gathered on fertilizer sales, fertilizer sources, competition, type of competition, services provided, and how they paid for services. The fertilizer operations of 497 local farm supply and marketing cooperatives were analyzed. The information was combined with fertilizer sales during the past 11 years, with comparisons by region, growth in sales, services offered, and comparisons to a 1985 agronomy study.

In 1996, average sales figures for the 497 local cooperatives were fertilizer, \$2.2 million; farm supplies, \$8.6 million; and farm products marketed, \$9.9 million. Findings from the survey of local cooperative fertilizer operations5 revealed the following:

- Fertilizer sales included 54 percent dry, mixtures and lime, 27 percent anhydrous ammonia, and 19 percent liquid.
- Most fertilizer was purchased from regional cooperatives-88 percent of anhydrous ammonia and dry, mixtures and lime and nearly 83 percent of liquid.
- Investor-owned fertilizer suppliers were the number one competitor. Other cooperatives were a close

- second. Most often, price was the major competitive factor.
- More than 90 percent of the cooperatives provided fertilizer applications, 88 percent soil testing, 74 percent fertilizer specialists, and 62 percent fertilizer records. Services offered varied by cooperative size, with larger local cooperatives offering services more often. Growth in fertilizer sales for the 11-year study period did not have a large impact on the frequency of services offered. However, services offered varied greatly by region. Cooperatives in the Corn Belt and Lake States offered services more frequently.
- Thirty-one percent of the local cooperatives offered precision agriculture-global positioning system and global information system (GPS/GIS)—in applying fertilizer. This included computer record keeping for 26 percent of the fertilizer volume and 24 percent for application equipment. Fourteen percent of the local cooperatives sold, rented, or leased the new GPS/GIS units to patrons.

# **III-Cooperative Trends**, 198748

Although the number of cooperatives decreased by 1,225 net during the past decade, business volume of the survivors has increased. Cooperatives continue to adjust to the changing economic environment through dissolution, mergers or consolidations, acquisitions, and sale of assets. In some cases, farmers have organized new-generation cooperatives as a way of becoming more involved in value-added activities. In 1987, the net business volume of 5,109 cooperatives totaled \$60.3 billion. In 1996, net business volume generated by 3,884 cooperatives hit a record \$106.2 billion (appendix figure 1).

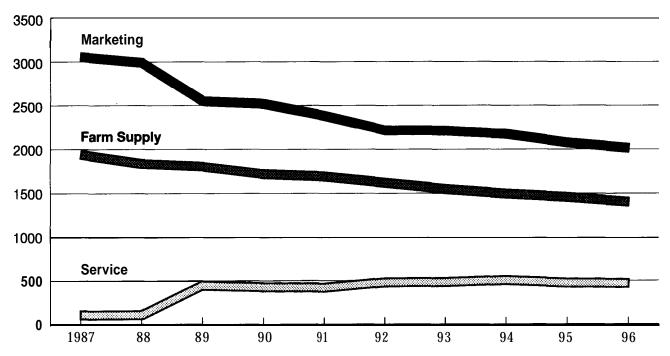
# **Number of Cooperatives**

The total number of marketing, farm supply, and related-service cooperatives declined from 5,109 in 1987 to 3,884 in 1996 (table 10 and figure 9). Marketing cooperatives declined from 3,054 to 2,012 and farm supply cooperatives from 1,941 to 1,403. Number of service cooperatives, however, increased from 114 to 469, due primarily to reclassifying cotton ginning cooperatives, livestock shipping associations, and rice driers from marketing to service.

From 1987 through 1996, 1,947 were removed from CS' list of farmer cooperatives, an average loss of nearly 195 per year. Of those, 39.7 percent were dissolved, 28.2 percent resulted from merger or consolidation, 16.4 percent were acquired by other cooperatives

<sup>&</sup>lt;sup>5</sup> For a more detailed discussion of the study on the fertilizer operations of local cooperatives, see Eversull, E. Eldon, Fertilizer Operations of Local Farm Supply and Marketing Cooperatives, RBS, USDA, Wash., DC, Forthcoming.

Figure 9— Farmer Cooperatives in the United States, 1987-96



cotton ginning cooperatives, livestock shipping associations, and rice driers reclassified from marketing to service cooperatives in 1989, 1992, and 1993, respectively.

| able 10 N           | umber of f | armer coope | eratives, 1 | 198748 |
|---------------------|------------|-------------|-------------|--------|
| Period <sup>1</sup> | Marketing  | Farm supply | Service     | Total  |
|                     |            | Numbe       | er          |        |
| 1987                | 3,054      | 1,941       | 114         | 5,109  |
| 1988                | 2,988      | 1,836       | 113         | 4,937  |
| 1989                | 2,550      | 1,803       | 446         | 4,799  |
| 1990                | 2,519      | 1,717       | 427         | 4,663  |
| 1991                | 2,384      | 1,689       | 421         | 4,494  |
| 1992                | 2,218      | 1,618       | 479         | 4,315  |
| 1993                | 2,214      | 1,547       | 483         | 4,244  |
| 1994                | 2,173      | 1,496       | 505         | 4,174  |
| 1995                | 2,074      | 1,458       | 474         | 4,006  |
| 1996                | 2,012      | 1,403       | 469         | 3,884  |

<sup>&</sup>lt;sup>1</sup> For years before 1987, see Cooperative Historical Statistics, CIR1, Section 26, USDA, ACS, Washington, DC, Revised January 1993. Cotton ginning cooperatives. livestock shipping associations, and rice drying cooperatives were reclassified from marketing to service in 1989, 1992, and 1993, respectively.

or investor-owned firms, and the remaining 15.7 percent were removed for miscellaneous reasons (figure 10).

Meanwhile, new cooperatives are being formed. From 1987 through 1996,464 cooperatives, or an average of more than 46 cooperatives per year, were added to CS' list.

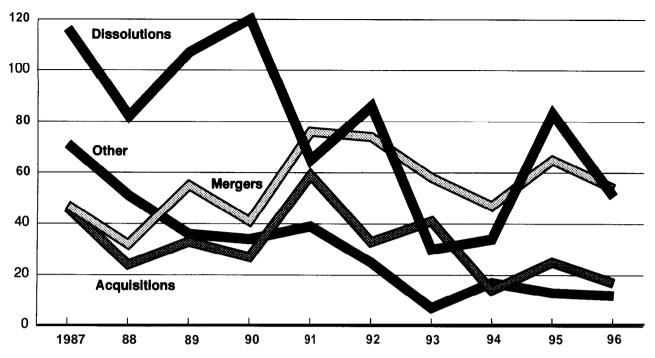
# **Memberships**

Memberships in farmer cooperatives dropped from 4.4 million in 1987 to nearly 3.7 million in 1996 (table 11 and figure 11) reflecting, in part, declining farm and farmer numbers in the United States. Many farmers are members of more than one cooperative and each membership is counted. Total membership contains duplication that cannot be eliminated with current reporting methods. Consequently, number of memberships exceeds the number of farmers.

Member classification depends on the type of cooperative they use and may not be related to the member's products marketed or supplies purchased. For example, a member may use a cooperative to market only one of the farm products handled by the cooperative, or a member may use a cooperative classified in the marketing group to purchase production supplies. A member's business with the cooperative, therefore, may not be in the group that represents the

Figure 10— Cooperatives Removed from CS' List, 1987-98





Based on a list of all U.S. farmer cooperatives maintained by Cooperative Services. Mergers also include consolidations. Other includes cooperatives dropped due to inactivity and unknown and miscellaneous reasons.

cooperative's major business volume (the criterion for classifying cooperatives in this report). The member, however, will be included arbitrarily in that classification.

#### **Employees**

Farmer cooperatives had 174,795 employees in 1996, an average of 45 persons per association on a full-time basis--down 0.3 percent from 175,399 in 1995 (table 12). The 2,012 marketing cooperatives employed 123,525 persons, down 0.5 percent from 1995. Livestock and poultry cooperatives had the most full-time employees, 28,453—down 0.6 percent. Dairy cooperatives ranked second with 27,621, a 7.4-percent decrease. Together, these cooperatives accounted for 45.4 percent of the full-time employees of all marketing cooperatives. In 1986, one of the few years where data were collected on full-time employees, 5,369 cooperatives had 166,560 full-time employees.

The 1,403 farm supply cooperatives employed 45,566 persons on a full-time basis, up only 0.6 percent from the 45,302 reported in 1995. These cooperatives had an average of 32 full-time employees in 1996.

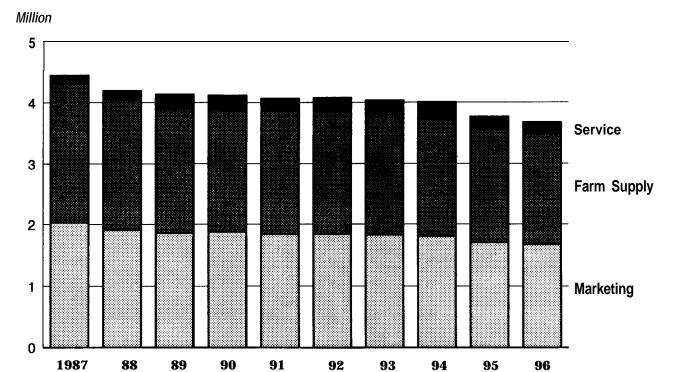
Full-time employees of the 469 related-service

Table 1- Memberships In marketing, farm supply, and service cooperatives, 1987–96

| Period 1 | Marketing | Farm supply | Service | Total |
|----------|-----------|-------------|---------|-------|
|          |           | Numb        | er      |       |
| 1987     | 2,028     | 2,282       | 132     | 4,440 |
| 1988     | 1,912     | 2,142       | 141     | 4,195 |
| 1989     | 1,858     | 2,035       | 243     | 4,134 |
| 1990     | 1,882     | 2,008       | 232     | 4,119 |
| 1991     | 1,542     | 2,025       | 191     | 4,059 |
| 1992     | 1,839     | 2,020       | 212     | 4,072 |
| 1993     | 1,830     | 1,977       | 218     | 4,023 |
| 1994     | 1,805     | 1,938       | 245     | 3,988 |
| 1995     | 1,712     | 1,848       | 210     | 3,787 |
| 1998     | 1,882     | 1,795       | 187     | 3,864 |

<sup>&</sup>lt;sup>1</sup> For years before 1987, see *Cooperative Historical Statistics*, CIR1, Section 28, USDA, ACS, Washington, DC, Revised January 1993. Cotton ginning cooperatives, livestock shipping associations, and rice drying cooperatives were reclassified from marketing to service in 1989, 1992, and 1993, respectively.

Figure 1- Total Cooperative Memberships by Function, 1987-96



| Commodity                    |       | Cooperatives |       |         | Full-time Employe | ees     |
|------------------------------|-------|--------------|-------|---------|-------------------|---------|
| Commodity                    | 1994  | 1995         | 1996  | 1994    | 1995 ²            | 1996    |
|                              |       |              | Nı    | ımber   |                   |         |
| Cotton                       | 17    | 16           | 16    | 2,105   | 2,136             | 1,787   |
| Dairy                        | 247   | 241          | 237   | 31,261  | 29,828            | 27,621  |
| Fruits & vegetables          | 288   | 281          | 267   | 21,201  | 24,944            | 26,456  |
| Grains <b>&amp; oilseeds</b> | 1,159 | 1,090        | 1,066 | 24,759  | 24,811            | 25,981  |
| Livestock, & poultry         | 117   | 112          | 105   | 26,408  | 28,635            | 28,453  |
| Rice                         | 21    | 19           | 19    | 2,796   | 2,785             | 2,636   |
| Sugar                        | 52    | 51           | 49    | 3,264   | 3,422             | 3,482   |
| Other products               | 272   | 264          | 253   | 5,795   | 7,590             | 7,109   |
| Marketing                    | 2,173 | 2,074        | 2,012 | 117,589 | 124,151           | 123,525 |
| Farm supply                  | 1,496 | 1,458        | 1,403 | 50,524  | 45,302            | 45,566  |
| Service                      | 505   | 474          | 469   | 6,906   | 5,946             | 5,704   |
| Total                        | 4,174 | 4,006        | 3,884 | 175,019 | 175,399           | 174,795 |

<sup>&</sup>lt;sup>1</sup> Totals may not add to rounding.

<sup>2</sup> Data for 1995 were revised.

cooperatives dropped from 5,946 in 1995 to 5,704 in 1996, a **4.1-percent** decrease.

#### **Business Volume**

Net cooperative business volume, unadjusted for changes in the price level, increased from \$60.3 billion in 1987 to \$106.2 billion in 1996—up 76.1 percent (table 13). Adjusted for price change,6 net cooperative business totaled \$83.1 billion in 1996—up 37.8 percent (figure 12). In 1996, the difference between actual and real net business volume totaled \$23.1 billion.

Four major commodity groups-dairy; grains and oilseeds, excluding cottonseed; fruits and vegetables; and livestock-increased from 81.3 percent of all marketing sales in 1987 to 84 percent in 1996. Grains and oilseeds (excluding cottonseed) increased from 22.8 percent to 34.8 percent. Dairy and fruits and vegetables, as a percentage of total cooperative business volume, decreased from 37.6 percent in 1987 to 30.4 percent in 1996.

Trends in cooperatives' sales of these major commodity groups for 1987-96 are shown in figure 13. Grains and **oilseeds** sales show the largest variation during this period and a significant increase in grain sales in 1996, mainly due to higher prices.

In the farm supply group, petroleum, feed, and fertilizer were especially important. They accounted for 69.3 percent of cooperatives' total farm supply sales in 1987 and 71.4 percent in 1996.

Beginning with 1987, cooperative sales of petroleum, feed, fertilizer, and crop protectants have been increasing (figure 14). Fertilizer and crop protectants sales were at their lowest points in 1987. All rebounded except seed sales, which remained fairly steady.

Net marketing of farm products totaled **\$44.2** billion in 1987 and increased every year except in 1991. In 1996, net business volume of farm products marketed reached a record \$79.4 billion (table 14). Aggregate farm supply sales were \$14.3 billion in 1987 and \$23.7 billion in 1996-1987 showed the lowest farm supply sales of the period. Service receipts increased from \$1.9 billion in 1987 to \$3.1 billion in 1996. Beginning in 1990, service receipts were expanded to include other income and revenue.

Gross business volume was \$74.7 billion in 1987 and reached \$92.7 billion in 1990 before dropping to \$90.8 billion in 1991. From 1991, gross business volume increased every year to a record \$128.1 billion in 1996. Farm product marketings ranged from 67.3 percent to 70.5 percent of cooperatives' total gross business volume during 1987-96. Net business volume of farm

Table 13-Cooperatives' net business **volume**, 1997 and 1996 <sup>1</sup>

|                                  |                 | Net Volume |         |
|----------------------------------|-----------------|------------|---------|
| Commodity or function            | 1985            | 1994       | Change  |
|                                  | Million         | dollars    | Percent |
| Products marketed:               |                 |            |         |
| Beans and peas                   |                 |            |         |
| (dry edible)                     | 127.7           | 179.0      | 40.2    |
| Cotton                           | 1 <b>,542.6</b> | 2,658.6    | 72.3    |
| Dairy                            | 16,548.3        | 22,934.5   | 36.6    |
| Fruits and vegetables            | 6,113.6         | 9,392.0    | 53.6    |
| Grains and oilseeds <sup>2</sup> | 10,058.6        | 27,656.9   | 175.0   |
| Livestock                        | 3,158.4         | 6,725.2    | 112.9   |
| Nuts                             | 941 .0          | 951.6      | 1.1     |
| Poultry                          | 1,146.2         | 1,754.1    | 53.0    |
| Rice                             | 647.7           | 699.6      | 6.1     |
| Sugar                            | 1,714.1         | 1,933.3    | 12.6    |
| Tobacco                          | 607.7           | 1,412.0    | 132.4   |
| Wool and mohair                  | 22.6            | 7.9        | -65.0   |
| Other products                   | 1,327.1         | ³ 2,923.6  | 120.3   |
| Total farm products              | 44,155.8        | 79,428.6   | 79.9    |
| Supplies sold:                   |                 |            |         |
| Crop protectants                 | 1,291.2         | 2,829.2    | 119.1   |
| Feed                             | 2,986.8         | 5,366.0    | 60.4    |
| Fertilizer                       | 2,731.8         | 5,200.6    | 90.4    |
| Petroleum                        | 4,175.1         | 6,295.2    | 50.6    |
| Seed                             | 576.6           | 656.5      | 14.2    |
| Other supplies                   | 2,509.4         | 3,281.3    | 30.6    |
| Total farm supplies              | 14,270.8        | 23,652.6   | 65.7    |
| Services provided:               |                 |            |         |
| Trucking, cotton ginning,        |                 |            |         |
| storage, grinding, locker        |                 |            |         |
| plants, <b>misc</b>              | 1,891.2         | 3,100.4    | 63.9    |
| Total business                   | 60,317.7        | 106,181.6  | 76.0    |

<sup>1</sup> Excludes intercooperative business volume. Totals may not add due to rounding.

<sup>6</sup> Marketing sales was deflated by the index of producer prices received for "farm products, processed foods and feeds" (1987 = 100). Supply sales and service receipts and other income were deflated by the index of prices paid by farmers for "production items" excluding interest, taxes, and wages (1987 = 100).

<sup>2</sup> Excludes cottonseed. Cottonseed sales were included with cotton. Cottonseed meal and oil sales were included with feed and other products, respectively.

<sup>3</sup> Includes value of processed oilseeds.

Figure 12—Cooperatives' Net Business Volume, 1987-98

Billion dollars

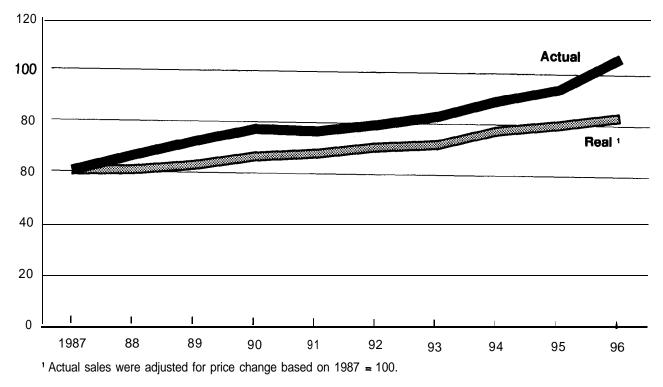


Figure 13— Cooperatives' Net Sales of Selected Commodities, 1987-96



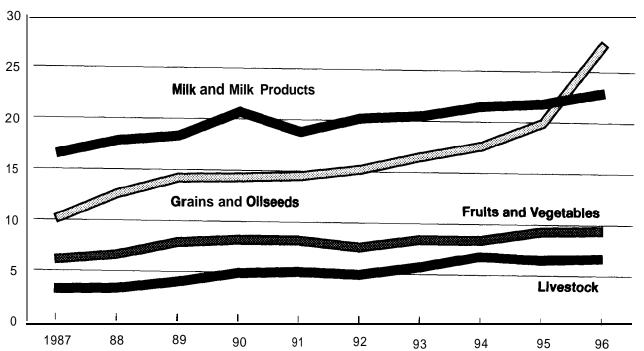
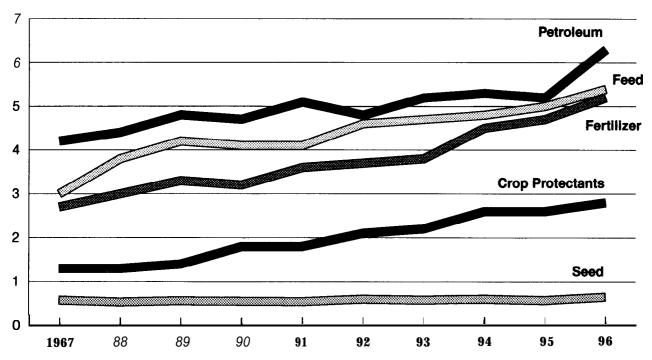


Figure 14— Cooperatives' Net Sales of Selected Farm Supplies, 1987-98

Billion dollars



products marketed ranged from 73.2 percent to 74.8 percent of cooperatives' total net business volume.

#### **Net Income**

Although net income has fluctuated since 1987, the general trend has been an increase. In 1987, net income was \$1,486 million, rose to \$1.85 billion in 1989, dropped to \$1.36 billion in 1993, reached a record \$2.36 billion in 1995, and dropped to \$2.25 billion in 1996 (table 15 and figure 15).

Net income from other cooperatives and from own operations varied over time, but reflected better recent economic times in agriculture compared with the mid-1980s. In 1996, refunds from other cooperatives totaled \$711.9 million, or 31.7 percent of total net income. From 1987 to 1995, the percentage of total net income received from other cooperatives ranged from 4.2 percent in 1987 to 24.7 percent in 1992. The significant increase in net income from patronage refunds received from other cooperatives indicates the importance of cooperatives working together.

# **Balance Sheet**

In 1987, farmer cooperatives financed 46.4 percent of their assets through member and patron

equity, or net worth. From 1988 through 1993, member and patron equity used to finance assets ranged from 43.8 percent to 44.9 percent. In 1994, it dropped to 43.4 percent, continuing its downward trend to 40.8 percent in 1996 (table 16 and figure 16).

This drop in assets financed by net worth should be of some concern to cooperative leaders. If cooperatives continue to finance their assets with larger proportions of debt, and interest rates increase as happened in the late 1970s and early 1980s, some cooperatives could find themselves in a financial squeeze.

Investments in other cooperatives, as a percentage of total assets, increased in 1996 for the first time since 1993. They had dropped to 8.7 percent in 1989 before increasing to 9.6 percent in 1990. In both 1994 and 1995, they were only 7.4 percent, before increasing to 8 percent in 1996.

# **IV-Other Service Cooperatives**

Other types of service cooperatives were operating in 1996 besides those directly related to marketing and purchasing.

Table 14— Cooperatives' gross and net business volumes, 1987-961

|                     |               | Gross            | volume                |        |               | Net           | volume                |        |
|---------------------|---------------|------------------|-----------------------|--------|---------------|---------------|-----------------------|--------|
| Period <sup>2</sup> | Farm products | Farm<br>supplies | Services <sup>3</sup> | Total  | Farm products | Farm supplies | Services <sup>8</sup> | Total  |
|                     |               |                  |                       | Billio | n dollars     |               |                       |        |
| 1987                | 50.3          | 22. 5            | 1. 9                  | 74. 7  | 44. 2         | 14. 3         | 1.9                   | 60. 3  |
| 1988                | 56. 2         | 24. 0            | 1. 9                  | 82. 1  | 49. 1         | 15. 4         | 1. 9                  | 66. 4  |
| 1989                | 60.3          | 25.8             | 2.0                   | 88. 1  | 53. 2         | 16. 9         | 2. 0                  | 72. 1  |
| 1990                | 64. 1         | 26. 3            | 2.3                   | 92.7   | <b>57.8</b>   | 17. 1         | 2.3                   | 77.3   |
| 1991                | 61.4          | 26.8             | 2.5                   | 90.8   | 56. 2         | 17. 9         | 2.5                   | 76. 6  |
| 1992                | 63.8          | 27. 0            | 2.6                   | 93.4   | 58. 2         | 18. 5         | 2.6                   | 79. 3  |
| 1993                | 66. 8         | 28. 2            | 2.7                   | 97. 7  | 60. 9         | 19. 2         | 2.7                   | 82. 9  |
| 1994                | 72. 1         | 30.4             | 3.0                   | 105.5  | 65. 5         | 20. 8         | 3. 0                  | 89. 3  |
| 1995                | 77. 9         | 31.0             | 3.3                   | 112. 2 | 89. 3         | 21. 2         | 3. 3                  | 93. 8  |
| 1996                | 90. 3         | 34.7             | 3.1                   | 128. 1 | 79. 4         | 23. 7         | 3. 1                  | 106. 2 |
|                     |               |                  |                       | Pe     | ercent        |               |                       |        |
| 1987                | 67. 3         | 30. 2            | 2.5                   | 100    | 73. 2         | 23. 7         | 3.1                   | 100    |
| 1988                | 68. 4         | 29. 2            | 2.4                   | 100    | 73. 9         | 23. 2         | 2. 9                  | 100    |
| 1989                | 68. 4         | 29.3             | 2.3                   | 100    | 73.8          | 23. 4         | 2. 8                  | 100    |
| 1990                | 69. 1         | 28. 4            | 2.5                   | 100    | 74. 9         | 22. 1         | 3. 0                  | 100    |
| 1991                | 67.7          | 29.5             | 2.8                   | 100    | 73. 3         | 23. 4         | 3.3                   | 100    |
| 1992                | 68.3          | 28.9             | 2.8                   | 100    | 73. 4         | 23. 4         | 3. 2                  | 100    |
| 1993                | 68. 4         | 28.8             | 2.8                   | 100    | 73. 5         | 23. 2         | 3. 3                  | 100    |
| 1994                | 68. 4         | 28.8             | 2. 6                  | 100    | 73. 4         | 23. 3         | 3. 3                  | 100    |
| 1995                | 69. 5         | 27.6             | 2.9                   | 100    | 73. 9         | 22. 6         | 3. 5                  | 100    |
| 1996                | 70.5          | 27. 1            | 2.4                   | 100    | 74.8          | 22. 3         | 2. 9                  | 100    |

<sup>1</sup> Gross includes and net excludes intercooperative business.

<sup>3</sup> Services related to marketing or supply purchasing, but not included in the volumes reported for these activities. Beginning with 1990. other income and revenue were included with service receipts.

| ble 15— C | cooperatives'       | net Income, 1987                     | '-96 <sup>1</sup> |
|-----------|---------------------|--------------------------------------|-------------------|
| Year      | From own operations | From other cooperatives <sup>2</sup> | Total             |
|           |                     | Million dollars                      |                   |
| 1987      | 1, 423              | 63                                   | 1, 466            |
| 1986      | 1, 532              | 148                                  | 1, 680            |
| 1989      | 1, 543              | 308                                  | 1, 851            |
| 1990      | 1, 110              | 330                                  | 1, 440            |
| 1991      | 1, 189              | 381                                  | 1, 570            |
| 1992      | 1, 064              | 356                                  | 1, 440            |
| 1993      | 1, 041              | 318                                  | 1, 358            |
| 1994      | 1, 628              | 335                                  | 1, 963            |
| 19953     | 1, 820              | 544                                  | 2, 363            |
| 1996      | 1, 536              | 712                                  | 2, 246            |

¹ Totals may not add due to rounding. Excludes income from cooperative pooling operations.

# Farm Credit System

The Farm Credit System (FCS) is a nationwide network of financial cooperatives that lend to agriculture and rural America. FCS provides credit and related services to farmers, ranchers, producers and harvesters of aquatic products, rural homeowners, certain farm-related businesses, agricultural and aquatic cooperatives, rural utilities, and to certain foreign or domestic entities in connection with international transactions.

On January 1, 1997, the FCS represented 60 Federal Land Bank Associations (FLBAs); 31 Federal Land Credit Associations (FLCAs); 65 Production Credit Associations (PCAs); 1 Agricultural Credit Bank (ACB), (CoBank, ACB); 61 Agricultural Credit Associations (ACAs); 6 Farm Credit Banks (FCBs); and 1 Bank for Cooperatives (BC) (table 17).

On December 31, 1996, the combined assets of the FCS totaled \$74.9 billion-up 4.9 percent from \$71.4

<sup>&</sup>lt;sup>2</sup> For years before 1987, see *Cooperative Historical Statistics*, CIR 1, Section 28, USDA, ACS, Washington, DC, Revised January 1993. Data for prior years are not entirely comparable due to revisions in statistical procedures.

<sup>2</sup> Dividends and patronage refunds received from other marketing, farm supply, and related-service cooperatives.

<sup>&</sup>lt;sup>3</sup> Revised.

Figure 15— Cooperatives' Net Income, 1987-98

Billion dollars

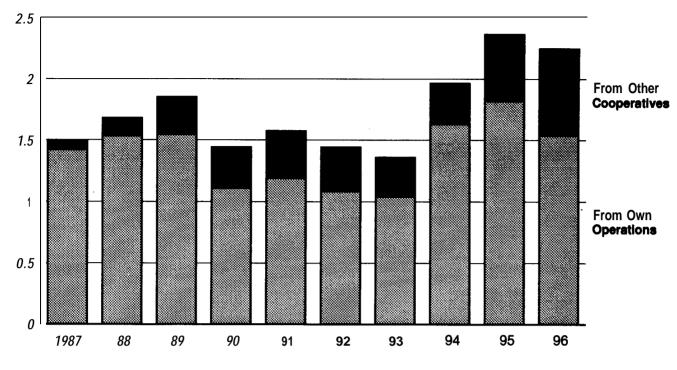


Figure 16— Cooperatives' Net Worth and Total Liabilities, 1987-98



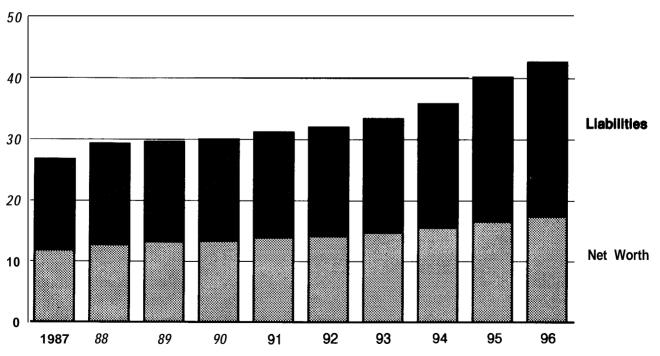


Table 16— Combined balance sheet data for farmer cooperatives, 1987-961 Assets Investments from own Total Total in other Net operations liabilities Year assets worth co-ops Million dollars 1987 24,823 27,843 14,819 12,824 2,820 1988 28,524 2,782 29,288 18,481 12,825 13,313 1989 27,078 2,571 29,849 18,337 1990 27,155 2,889 30,024 18,575 13,449 1991 28,788 2,501 31,288 17,227 14,040 1992 29,572 2,422 31,994 17,780 14,213 1993 30,844 2,802 33,448 18,834 14,812 1994 33,304 2,858 35.980 20,339 15,821 1995 37,314 2,980 40,274 23,843 18,831 17,392 1998 39,193 3,395 42,588 25,195 Percent of total assets 89.8 10.2 48.4 1987 100.0 53.8 1988 90.8 9.4 100.0 58.2 43.8 1989 91.3 8.7 100.0 55.1 44.9 44.8 1990 90.4 9.8 100.0 55.2 1991 92.0 8.0 100.0 55.1 44.9 92.4 44.4 1992 7.8 100.0 55.8 1993 92.2 44.3 7.8 100.0 55.7 1994 92.6 7.4 43.4 100.0 58.8 92.6 1995 7.4 100.0 58.7 41.3 1998 92.0 8.0 100.0 59.2 40.8

<sup>1</sup> Totals may not add due to rounding.

| District or bank affiliation    | FLBA | FLCAs | PCA | ACB  | ACA | FCB | ВС |
|---------------------------------|------|-------|-----|------|-----|-----|----|
|                                 |      |       | Nui | mber |     |     |    |
| CoBank, ACB 2                   |      |       |     | 1    | 5   |     |    |
| AgFirst FCB                     |      |       | 1   |      | 39  | 1   |    |
| <b>AgriBank,</b> FCB            |      | 19    | 19  |      | 11  | 1   |    |
| FCB of Wichita                  | 22   |       | 18  |      |     | 1   |    |
| FCB of Texas                    | 38   |       | 18  |      |     | 1   |    |
| Western FCB                     |      | 11    | 10  |      | 5   | 1   |    |
| St. Paul <b>BC</b> <sup>3</sup> |      |       |     |      |     |     | 1  |
| <b>AgAmerica,</b> FCB           |      | 1     | 1   |      | 1   | 1   |    |
|                                 |      |       |     | _    | _   |     |    |
| Total                           | 80   | 31    | 85  | 1    | 81  | 8   | 1  |

<sup>■</sup> No bank affiliation.

Source: Farm Credit Administration, 1996 Annual Report on the Financial Condition and Performance of the Farm Credit System, McLean, VA, p. 26.

<sup>1</sup> FLBA = Federal Land Bank Association; PCA = Production Credii Association; ACA = Agricultural Credit Association; FLCA = Federal Land Credit Association; ACB = Agricultural Credit Bank; FCB = Farm Credit Bank; and BC= Bank for Cooperatives

<sup>&</sup>lt;sup>2</sup>CoBank, ACB serves cooperatives nationwide and ACAs in the former Springfield District.

<sup>3</sup> The St. Paul BC serves cooperatives nationwide.

billion in 1995 (table 18). Net worth totaled \$10.7 billion, up 8.8 percent, and net income was \$1.2 billion, up 3.1 percent from 1995.

The FLBAs originate and service long-term loans made by FCBs. Loan proceeds are used to purchase agricultural real estate and rural homes and refinance agricultural real estate and rural home mortgages.

Of the 31 FLCAs operating on January 1, 1997, 19 were in AgriBank, 11 in Western and one in AgAmerica districts. FLCAs were authorized by the Agricultural Credit Act of 1987. FLCAs are former FLBAs that were given direct lending authority by FCBs.

PCAs provide farmers and ranchers short- and intermediate-term loans for various purposes, such as operating expenses, farm equipment, livestock, farm buildings, and other capital improvements. Four of the six FCB districts contained 63 of the 65 PCAs.

ACAs resulted from the merger of FLBAs or FLCAs with PCAs. ACAs offer both long- and short-term loans. Of the 61 ACAs operating on January 1, 1997, 39 of them were in AgFirst territory and 11 in the AgriBank district.

The FCBs provide loan funds and support services to FLBAs, ACAs, FLCAs, and PCAs within their districts. Combined assets of six FCBs, one ACB, and one BC totaled \$68.5 billion in 1997, up from \$65.8 billion in 1995 (table 19). Net worth in 1996 was \$5.8 billion and net loans totaled nearly \$56.6 billion. Net income was \$622 million in 1996, a record for the past 5 years.

St. Paul Bank for Cooperatives, the sole BC, is based in Minnesota. It offers a complete line of credit and related financial services to agricultural **coopera**-

Table is- Farm Credit System combined assets, net worth, and net income, 1992–961

| Year | Assets | Net worth       | Net income |
|------|--------|-----------------|------------|
|      |        | Million dollars |            |
| 1992 | 63,197 | 7,214           | 986        |
| 1993 | 64,798 | 8,312           | 1,217      |
| 1994 | 66,376 | 8,980           | 1,005      |
| 1995 | 71,438 | 9,863           | 1,165      |
| 1996 | 74,917 | 10,729          | 1,201      |
|      |        |                 |            |

As of December 31. Data for 1992-93 were taken from Farm Credit System, Annual Information Statements, Federal Farm Credit Banks, Funding Corporation, Jersey City, NJ. Data for 1994-96 were taken from Farm Credit System, Annual Information Statement-1996, Federal Farm Credit Banks, Funding Corporation, Jersey City, NJ, February 27, 1997, p. F-3.

tives, rural utilities, and other eligible customers nationwide.

CoBank, ACB, provides short-, intermediate-, and long-term credit to agricultural cooperatives, rural utility systems, and other rural businesses nationwide. It also provides credit to the Farm Credit Associations serving agricultural producers in the Northeast. CoBank, ACB, is owned by about 2,300 stockholders, consisting of U.S. farmer cooperatives, rural utilities, ACAs, and other businesses serving rural America. CoBank is also authorized to finance U.S. agricultural exports and to provide international banking services for farmer cooperatives.

### **Rural Telephone Cooperatives**

On December 31, 1996, 236 rural telephone cooperatives were borrowing from the Rural Electrification Administration (REA), with revenues of \$1,201 million and 1,457,000 subscriber members. Iowa had the most cooperatives, 32, or 13.6 percent of the total. South Carolina had more subscriber memberships (11.1 percent) than any other State (table 20). Texas led all States in revenue, with \$143 million, or 11.9 percent of the total.

# **Rural Electric Cooperatives**

The Nation's 804 rural electric cooperatives reported 11.1 million consumer members and revenue of \$24.4 billion (table 21). Texas led all States, with 55 associations, or 6.8 percent of the total, while Georgia led with the most consumer members (9.1 percent) and revenue (9.9 percent).

Table IQ- Farm Credit System banks' and associations' combined assets, net worth, net loans, and net income, 1992-96 <sup>1</sup>

| Year | Assets | Net worth | Net loans | Net income |  |
|------|--------|-----------|-----------|------------|--|
|      |        | Million   | dollars   |            |  |
| 1992 | 59,633 | 4,937     | 49,440    | 506        |  |
| 1993 | 60,382 | 5,231     | 50,327    | 590        |  |
| 1994 | 61,174 | 5,254     | 50,763    | 452        |  |
| 1995 | 65,754 | 5,629     | 54,525    | 555        |  |
| 1996 | 68,549 | 5,798     | 56,571    | 622        |  |
|      |        |           |           |            |  |

<sup>1</sup> As of December 31. Includes six Farm Credit Banks, one Agricultural Credit Bank, and one Bank for Cooperatives.

Source: Farm Credit Administration, *Report on the Financial Condition and Performance of the Farm Credit System,* McLean, VA, pp. 41-42.

Table 20— Number, participation, and level of activity of rural telephone cooperatives by State, December 31, 1996 1

| State       | Cooperatives | Members (subscribers) | Revenue   | State          | Cooperatives | Members<br>(subscribers) | Revenue   |
|-------------|--------------|-----------------------|-----------|----------------|--------------|--------------------------|-----------|
|             | Number       | 1,000                 | Mil. dol. |                | Number       | 1,000                    | Mil. dol. |
| Alabama     | 3            | 26                    | 16        | New Hampshire  |              |                          |           |
| Alaska      | 7            | 59                    | 66        | New Jersey     |              |                          |           |
| Arizona     | 1            | 4                     | 6         | New Mexico     | 5            | 28                       | 49        |
| Arkansas    | 2            | 6                     | 8         | New York       |              |                          |           |
| California  | _            |                       | -         | North Carolina | 9            | 138                      | 75        |
| Colorado    | 5            | 9                     | 9         | North Dakota   | 10           | 59                       | 53        |
| Delaware    | _            |                       | -         | Ohio           | 6            | 4                        | 3         |
| Florida     | _            |                       | _         | Oklahoma       | 1            | 9                        | 14        |
| Georgia     | 4            | 32                    | 21        | Oregon         | 9            | 46                       | 35        |
| Idaho       | 2            | 10                    | 7         | Pennsylvania   |              |                          |           |
| Illinois    | 7            | 23                    | 22        | South Carolina | 6            | 161                      | 99        |
| Indiana     | 8            | 34                    | 25        | South Dakota   | 13           | 50                       | 45        |
| lowa        | 32           | 63                    | 52        | Tennessee      | 7            | 136                      | 82        |
| Kansas      | 10           | 56                    | 71        | Texas          | 20           | 126                      | 143       |
| Kentucky    | 8            | 97                    | 64        | Utah           | 3            | 19                       | 17        |
| Louisiana   | -            | -                     | -         | Vermont        |              |                          |           |
| Maine       | _            | _                     | _         | Virginia       | 5            | 19                       | 12        |
| Maryland    | _            | _                     | _         | Washington     |              |                          |           |
| Michigan    |              |                       |           | West Virginia  | 2            | 4                        | 4         |
| Minnesota   | 19           | 76                    | 57        | Wisconsin      | 11           | 44                       | 30        |
| Mississippi |              |                       |           | Wyoming        | 1            | 1                        | 2         |
| Missouri    | 8            | 49                    | 43        |                |              |                          |           |
| Montana     | 7            | 56                    | 64        | United States  | 236          | 1,457                    | 1,201     |
| Nebraska    | 5            | 10                    | 7         |                |              |                          |           |
| Nevada      |              |                       | -         |                |              |                          |           |

<sup>-=</sup> None reported in the State.

#### **Rural Credit Unions**

The 690 rural credit unions reported 4.2 million members and savings of \$16.4 billion. Wisconsin led all States in number of associations, with 69 (10 percent), while California had the most members, with 990,000 (23.3 percent). California also led all States in credit union savings, with \$4.5 billion, or 27.5 percent of the \$16.4 billion (table 22).

#### **Dairy Herd Improvement Associations**

Dairy Herd Improvement Associations (**DHIA**) had 41,277 members (table 23). The **DHIAs** tested 4.5 million cows. Wisconsin (10,628), Pennsylvania (5,219), Minnesota (4,828), and New York (3,351), combined, accounted for 58.2 percent of total members. About

845,600, or 18.7 percent, of the cows tested were in California.

<sup>&</sup>lt;sup>1</sup> Source: Rural Utilities Service, USDA. Totals may not add due to rounding.

Table 21— Number, participation, and level of activity of rural electric cooperatives by State, December 31, 1996 1

| State       | Cooperatives | Members<br>(subscribers) | Revenue   | State                | Cooperatives | Members<br>(subscribers) | Revenue   |
|-------------|--------------|--------------------------|-----------|----------------------|--------------|--------------------------|-----------|
|             | Number       | 1,000                    | Mil. dol. |                      | Number       | 1,000                    | Mil. dol. |
| Alabama     | 22           | 422                      | 770       | New Hampshire        | 1            | 69                       | 96        |
| Alaska      | 11           | 71                       | 206       | New Jersey           | 1            | 10                       | 14        |
| Arizona     | 6            | 113                      | 374       | New Mexico           | 17           | 167                      | 374       |
| Arkansas    | 19           | 365                      | 1,006     | New York             | 4            | 15                       | 13        |
| California  | 3            | 14                       | 20        | North Carolina       | 26           | 644                      | 1,516     |
| Colorado    | 21           | 306                      | 642       | North Dakota         | 26           | 113                      | 666       |
| Delaware    | 1            | 53                       | 60        | Ohio                 | 24           | 275                      | 530       |
| Florida     | 14           | 559                      | 1,259     | Oklahoma             | 24           | 310                      | 553       |
| Georgia     | 38           | 1,006                    | 2,417     | Oregon               | 13           | 96                       | 146       |
| ldaho       | 7            | 46                       | 66        | Pennsylvania         | 13           | 168                      | 344       |
| Illinois    | 21           | 167                      | 296       | South Carolina       | 22           | 519                      | 1,171     |
| Indiana     | 31           | 307                      | 620       | South Dakota         | 32           | 121                      | 223       |
| Iowa        | 43           | 178                      | 435       | Tennessee            | 21           | 750                      | 1,013     |
| Kansas      | 33           | 152                      | 408       | Texas                | 55           | 666                      | 1,407     |
| Kentucky    | 26           | 614                      | 1,573     | Utah                 | 1            | 7                        | 6         |
| Louisiana   | 12           | 284                      | 796       | Vermont              | 3            | 9                        | 6         |
| Maine       | 3            | 14                       | 13        | Virginia             | 12           | 335                      | 508       |
| Maryland    | 2            | 146                      | 252       | Washington           | 7            | 32                       | 47        |
| Michigan    | 13           | 204                      | 251       | West Virginia        | 1            | 5                        | 5         |
| Minnesota   | 48           | 411                      | 639       | Wisconsin            | 21           | 145                      | 323       |
| Mississippi | 19           | 444                      | 923       | Wyoming              | 12           | 60                       | 127       |
| Missouri    | 45           | 515                      | 1,416     |                      |              |                          |           |
| Montana     | 23           | 93                       | 142       | <b>United States</b> | 804          | 11,084                   | 24,441    |
| Nebraska    | 3            | 6                        | 109       |                      |              |                          |           |
| Nevada      | 2            | 11                       | 52        |                      |              |                          |           |

<sup>&</sup>lt;sup>1</sup> Source: Rural Utilities Service, USDA. Totals may not add due to rounding.

Table 22— Number, participation, and level of activity of rural credit unions by State, December 31, 1996 <sup>1</sup>

| State         | Cooperatives | Members | Savings   | State                      | Cooperatives | Members | Savings |
|---------------|--------------|---------|-----------|----------------------------|--------------|---------|---------|
|               | Number       | 1,000   | Mil. dol. |                            | Number       | 1,000   | Mil. do |
| Alabama       | 11           | 21      | 70        | Montana                    | 12           | 55      | 187     |
| Alaska        | 1            | 19      | 78        | Nebraska                   | 16           | 13      | 37      |
| Arizona       | 4            | 15      | 36        | Nevada                     | 6            | 44      | 251     |
| Arkansas      | 3            | 7       | 20        | New Hampshire              | 2            | 1       | 1       |
| California    | 59           | 990     | 4,509     | New Jersey                 | 6            | 12      | 20      |
| Colorado      | 14           | 20      | 69        | New Mexico                 | 3            | 35      | 133     |
| Connecticut   | 1            | 1       | 1         | New York                   | 29           | 164     | 635     |
| Delaware      | 1            | 2       | 8         | North Carolina             | 14           | 32      | 68      |
| Florida       | 16           | 92      | 336       | North Dakota               | 32           | 99      | 500     |
| Georgia       | 12           | 31      | 77        | Ohio                       | 12           | 39      | 60      |
| Hawaii        | 17           | 97      | 537       | Oklahoma                   | 5            | 8       | 34      |
| Idaho         | 9            | 14      | 33        | Oregon                     | 10           | 75      | 262     |
| Illinois      | 13           | 60      | 208       | Pennsytvania               | 21           | 31      | 68      |
| Indiana       | 17           | 65      | 455       | Rhode Island               | 3            | 55      | 446     |
| lowa          | 7            | 6       | 16        | South Carolina             | 3            | 8       | 44      |
| Kansas        | 16           | 75      | 214       | South Dakota               | 8            | 10      | 24      |
| Kentucky      | 7            | 31      | 73        | Tennessee                  | 8            | 14      | 34      |
| Louisiana     | 9            | 15      | 35        | Texas                      | 34           | 111     | 345     |
| Maine         | 10           | 23      | 82        | Utah                       | 9            | 14      | 40      |
| Maryland      | 5            | 52      | 221       | Vermont                    | 4            | 17      | 43      |
| Massachusetts | 6            | 10      | 21        | Virginia                   | 6            | 43      | 134     |
| Michigan      | 27           | 410     | 1,068     | Washington                 | 15           | 150     | 617     |
| Minnesota     | 36           | 195     | 699       | West Virginia              | 3            | 4       | 9       |
| Mississippi   | 4            | 11      | 26        | Wisconsin                  | 69           | 573     | 1,915   |
| Missouri      | 7            | 18      | 47        | Wyoming                    | 2            | 2       | 4       |
|               |              |         |           | United States <sup>2</sup> | 690          | 4,240   | 16,383  |

<sup>&</sup>lt;sup>1</sup> Source: Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.) Totals may not add due to rounding.

<sup>&</sup>lt;sup>2</sup> Includes Puerto Rico with 44 cooperatives, 352 members, and savings of \$1,533 million.

Table 23— Number, participation, and level of activity of dairy herd Improvement associations by State, December 31, 1996 <sup>1</sup>

| State         | Members<br>(herds) | cows<br>tested | State          | Members<br>(herds) | cows<br>tested |
|---------------|--------------------|----------------|----------------|--------------------|----------------|
|               | Number             | 1,000          |                | Number             | 1,000          |
| Alabama       | 86                 | 14.4           | Montana        | 74                 | 8.6            |
| Alaska        | 2                  | <b>(2)</b>     | Nebraska       | 352                | 34.2           |
| Arizona       | 61                 | 59.7           | Nevada         | 27                 | 9.1            |
| Arkansas      | 114                | 10.8           | New Hampshire  | 132                | 11.3           |
| California    | <b>1</b> ,256      | 645.6          | New Jersey     | 117                | 9.5            |
| Colorado      | 112                | 41 .0          | New Mexico     | 54                 | 56.5           |
| Connecticut   | 141                | 16.0           | New York       | 3,351              | 329.6          |
| Delaware      | 33                 | 4.4            | North Carolina | 305                | 50.8           |
| Florida       | 126                | 65.5           | North Dakota   | 125                | 10.2           |
| Georgia       | 265                | 60.0           | Ohio           | 1,701              | 123.0          |
| Hawaii        | 6                  | 2.5            | Oklahoma       | 191                | 21.6           |
| Idaho         | 316                | 74.8           | Oregon         | 293                | 51.3           |
| Illinois      | 936                | 66.6           | Pennsylvania   | 5,219              | 336.8          |
| Indiana       | al5                | 64.8           | Rhode Island   | 6                  | .4             |
| Iowa          | 1,816              | 121.3          | South Carolina | 111                | 21.1           |
| Kansas        | 440                | 39.3           | South Dakota   | 422                | 33.7           |
| Kentucky      | 367                | 31 .0          | Tennessee      | 352                | 42.5           |
| Louisiana     | 200                | 25.6           | Texas          | 583                | 188.8          |
| Maine         | 190                | 16.3           | Utah           | 305                | 52.0           |
| Maryland      | 529                | 44.1           | Vermont        | 639                | 58.7           |
| Massachusetts | 151                | 12.6           | Virginia       | 612                | 77.1           |
| Michigan      | 1,445              | 148.3          | Washington     | 398                | 93.8           |
| Minnesota     | 4,828              | 320.2          | West Virginia  | a9                 | 9.2            |
| Mississippi   | 113                | 18.5           | Wisconsin      | 10,628             | 685.7          |
| Missouri      | 655                | 55.3           | Wyoming        | 11                 | 1.4            |
|               |                    |                | United States3 | 41,277             | 4,516.7        |

<sup>1</sup> Source: Agricultural Research Service, USDA. Totals may not add due to rounding.

<sup>&</sup>lt;sup>2</sup> Fewer than 500.

<sup>&</sup>lt;sup>3</sup> Includes Puerto **Rico** and the Virgin Islands with 177 members and 38,772 cows tested.

Appendix Table 1— Number <sup>1</sup> of co-ops and memberships\* by **major** business activity and State,19953

|                     | or oo ops and  | i iliciliberoriipo | by major basiness as |                    | <del></del> |
|---------------------|----------------|--------------------|----------------------|--------------------|-------------|
| State               | Hqts. in State | Memberships        | State                | Hqts. in State     | Memberships |
| BEANS AND PEAS, DR  | Y EDIBLE       |                    | FRUITS AND VEGE      | TABLES (Continued) |             |
| California          | 5              | 834                | Maine                | 4                  | 485         |
| Other States        | 5              | 2.419              | Massachusetts        | 4                  | 508         |
| United States       | 10             | 3,253              | Michigan             | 18                 | 3,759       |
| Utilied States      | 10             | 3,233              | Mississippi          | 4                  | 283         |
| COTTON 4            |                |                    | New Jersey           | 10                 | 864         |
| COTTON              |                |                    | New York             | 10                 | 1,120       |
| California          | 3              | 2,711              | North Carolina       | 3                  | 56          |
| Mississippi         | 3              | 3,315              | Ohio                 | 5                  | 1,376       |
| Texas               | 4              | 24,300             | Oregon               | 12                 | 1,637       |
| Other States        | 6              | 11,490             | Pennsylvania         | 6                  | 1,673       |
| Foreign             | v              | 68                 | Texas                | 5                  | 337         |
| _                   |                |                    | Vermont              | 3                  | 108         |
| United States       | 16             | 41,884             | Virginia             | 4                  | 207         |
|                     |                |                    | Washington           | 23                 | 5,644       |
| DAIRY               |                |                    | Other States         | 23                 | 4,258       |
| California          | 10             | 1,979              | Foreign <sup>6</sup> |                    | 81          |
| Hawaii              | 3              | 45                 | United States        | 281                | 49,112      |
| Illinois            | 4              | 2,423              | Office Otales        | 201                | 40,112      |
| Iowa                | 10             | 10,742             | GRAINS AND OILSE     | EDS EXCLUDING O    | OTTONSEED?  |
| Michigan            | 3              | 4,334              | Arkansas             | 3                  | 1,362       |
| Minnesota           | 48             | 17,519             | Colorado             | 16                 | 10,029      |
| New York            | 61             | 6,349              | Idaho                | 6                  | 1,633       |
| North Dakota        | 5              | 1,040              | Illinois             | 125                | 94,706      |
| Ohio                | 6              | 3,692              | Indiana              | 26                 | 40,855      |
| Oregon              | 3              | 661                | lowa                 | 152                | 99,608      |
| Pennsylvania        | 21             | 7,920              | Kansas               | 129                | 123,535     |
| Virginia            | 4              | 1,219              | Michigan             | 12                 | 6,351       |
| Wisconsin           | 35             | 32,769             | Minnesota            | 111                | 75,218      |
| Other States        | 28             | 26,621             | Mississippi          | 6                  | 2,332       |
| United States       | 241            | 117,313            | Missouri             | 21                 | 30,040      |
|                     |                |                    | Montana              | 15                 | 11,199      |
| FRUITS AND VEGETABL | LES 5          |                    | Nebraska             | 77                 | 68,687      |
| Arizona             | 4              | 734                | North Dakota         | 142                | 75,104      |
| Arkansas            | 6              | 440                | Ohio                 | 49                 | 37,815      |
| California          | 75             | 21,710             | Oklahoma             | 48                 | 36,201      |
| Colorado            | 10             | 421                | Oregon               | 3                  | 3,562       |
| Florida             | 33             | 2,376              | South Dakota         | 77                 | 55,119      |
| Georgia             | 5              | 189                | Texas                | 38                 | 18,311      |
| Hawaii              | 10             | 512                | Washington           | 25                 | 10,136      |
| Kentucky            | 4              | 334                | Other States         | 9                  | 3,732       |
|                     |                |                    | Foreign <sup>6</sup> |                    | 327         |
|                     |                |                    | United States        | 1,090              | 805,862     |
|                     |                |                    | Office Otales        | 1,000              | 300,002     |

Appendix Table: Number 1 Of co-ops and memberships 2 by major business activity and State, 1995 3 (continued)

| State                | Hqts. in State | Memberships | State                | Hqts. in State | Memberships   |
|----------------------|----------------|-------------|----------------------|----------------|---------------|
| LIVESTOCK 5          |                |             | TOBACCO 8            |                |               |
| Alabama              | 7              | 6,666       | Kentucky             | 5              | 70,889        |
| Hawaii               | 4              | 10,476      | North Carolina       | 8              | 66,460        |
| Idaho                | 3              | 6,939       | Tennessee            | 7              | 74,510        |
| Illinois             | 3              | 23,332      | Virginia             | 3              | 14,708        |
| Indiana              | 3              | 2,247       | Other States         | 3              | 43,189        |
| Kentucky             | 4              | 377         | Foreign <sup>6</sup> |                | 277           |
| Michigan             | 4              | 29,504      | Linited Otatas       |                |               |
| Mississippi          | 7              | 6,921       | United States        | 26             | 270,053       |
| Missouri             | 5              | 6,652       | WOOL AND MOUND       |                |               |
| North Dakota         | 7              | 9,359       | WOOL AND MOHAIR      | 0              | 000           |
| Ohio                 | 4              | 7,832       | Idaho                | 6              | 232           |
| Virginia             | 6              | 1,312       | Montana              | 20             | 998           |
| West Virginia        | 3              | 606         | North Dakota         | 6              | 247           |
| Wisconsin            | 7              | 24,422      | Pennsylvania         | 17             | 2,230         |
| Other States         | 27             | 131,236     | Utah<br>Vineinia     | 4              | 515           |
| Foreign <sup>6</sup> |                | 1,736       | Virginia             | 6              | 674           |
| Linited Otates       | 0.4            |             | West Virginia        | 10             | 767           |
| United States        | 94             | 273,619     | Wyoming              | 4              | 108           |
| NUT 8                |                |             | Other States         | 23             | <u>13,960</u> |
| California           | 0              | 0.550       | United States        | 96             | 19,731        |
|                      | 6              | 6,556       |                      |                | ,             |
| Hawaii               | 3              | 547         | MISCELLANEOUS 11     |                |               |
| Other States         | 12             | 41,315      | Alaska               | 13             | 6,245         |
| United States        | 21             | 46,416      | California           | 11             | 1,352         |
|                      |                |             | Florida              | 7              | 309           |
| POULTRY 9            |                |             | Georgia              | 4              | 353           |
| California           | 3              | 76          | Hawaii               | 7              | 399           |
| Utah                 | 3              | 113         | Maine                | 15             | 832           |
| Other States         | 12             | 26,319      | Massachusetts        | 4              | 278           |
| Foreign <sup>6</sup> |                | 42          | Michigan             | 3              | 109           |
| United States        | 16             | 20.552      | Minnesota            | 7              | 5,113         |
| United States        | 10             | 26,552      | Mississippi          | 4              | 262           |
| RICE 5               |                |             | North Dakota         | 3              | 2,834         |
| California           | 5              | 0.000       | Oregon               | 3              | 152           |
| Louisiana            |                | 2.206       | Washington           | 5              | 461           |
| Texas                | 3<br>7         | 166         | Other States         | 23             | 3,837         |
| Other States         | 4              | 1,233       | United States        | <del></del>    | ·             |
| Foreign 6            | 4              | 12,266      | United States        | 109            | 22,536        |
| i oreign s           | _              |             | TOTAL MARKETING      |                |               |
| United States        | 19             | 15,914      | Alabama              | 4.4            | 1.4.414       |
|                      |                |             |                      | 11             | 14,411        |
| SUGAR <sup>10</sup>  |                |             | Alaska               | 13             | 6,246         |
| Idaho                | 7              | 941         | Arizona              | 5<br>16        | 2,015         |
| Louisiana            | 10             | 604         | Arkansas             | 16             | 15,142        |
| Michigan             | 6              | 2,675       | California           | 122            | 41,419        |
| Minnesota            | 3              | 2,066       | Colorado             | 32             | 14,246        |
| Montana              | 3              | 535         | Florida              | 45<br>15       | 8,164         |
| Wyoming              | 4              | 466         | Georgia              | 15<br>26       | 37,041        |
| Other States         | 16             | 7,950       | Hawaii               | 26             | 12,082        |
| Foreign <sup>6</sup> |                | 2           | Idaho                | 26             | 12,289        |
| _                    | E 4            | 45.004      | Illinois             | 136            | 120,837       |
| United States        | 51             | 15,261      | Indiana              | 29             | 49,277        |

| State               | Hqts. in State | Memberships       | State           | Hqts. in State | Memberships    |
|---------------------|----------------|-------------------|-----------------|----------------|----------------|
| TOTAL MARKETING     | (Continued)    |                   | FARM SUPPLY (Co | ntinued)       |                |
| owa                 | 167            | 139, 509          | Kentucky        | 29             | 123, 237       |
| Kansas              | 129            | 129, 223          | Louisiana       | 21             | 7, 237         |
| Centucky            | 15             | 74, 924           | Maryland        | 15             | 52, 324        |
| ouisiana            | 20             | 5,543             | Massachusetts   | 4              | 3, 910         |
| 1aine               | 20             | 1,746             | Michigan        | 33             | 16, 638        |
| Massachusetts       | 11             | 1,433             | Minnesota       | 170            | 147, 767       |
| lew Mexico          | 4              | 1,539             | Mississippi     | 38             | 86, 391        |
| lichigan            | 49             | 47,858            | Missouri        | 44             | 135, 422       |
| linnesota           | 177            | 155,439           | Montana         | 39             | 20, 820        |
| lississippi         | 25             | 17,566            | Nebraska        | 51             | 38, 281        |
| lissouri            | 29             | 44,172            | New York        | 12             | 37, 144        |
| lontana             | 44             | 14,487            | North Dakota    | 115            | 51, 451        |
| ebraska             | 66             | 82,513            | Ohio            | 22             | 14, 806        |
| ew Jersey           | 15             | 3,101             | Oklahoma        | 29             | 21, 024        |
| ew York             | 76             | 10,031            | Oregon          | 15             | 21, 319        |
| orth Carolina       | 20             | 69,009            | Pennsyfvania    | 7              | 33, 164        |
| orth Dakota         | 170            | 91,897            | South Dakota    | 72             | 52, <b>034</b> |
| hio                 | 70             | 67,083            | Tennessee       | 70             | 71, 110        |
| klahoma             | 53             | 50,996            | Texas           | 53             | 35, 480        |
| regon               | 24             | 9,984             | Utah            | 8              | 5, 322         |
| ennsylvania         | 48             | 11,991            | Virginia        | 38             | 121, 687       |
| outh Carolina       | 5              | 19,170            | Washington      | 31             | 13, 278        |
| outh Dakota         | 79             | 63,682            | West Virginia   | 14             | 60, 190        |
| ennessee            | 8              | 76,376            | Wisconsin       | 129            | 123, 088       |
| exas                | 67             | 52,906            | Wyoming         | 6              | 4, 008         |
| tah                 | 13             | 5,626             | Other States    | 13             | 99, 471        |
| ermont              | 7              | 2,156             | Foreign 6       |                | 626            |
| irginia             | 27             | 41,323            | _               | <del></del>    |                |
| /ashington          | 57             | 17,725            | United States   | 1,458          | 1,845,535      |
| est Virginia        | 14             | 3,558             |                 |                |                |
| /isconsin           | 47             | 58,981            | SERVICE 12      |                |                |
| /yoming             | 8              | 611               | Alabama         | 5              | 180            |
| ther States         | 9              | 3,867             | Arizona         | 4              | 922            |
| oreign <sup>6</sup> |                | 2,534             | Arkansas        | 6              | 1, 191         |
| -                   | <del></del>    |                   | California      | 48             | 4, 217         |
| nited States        | 2,074          | <b>1,7</b> 11,508 | Hawaii          | 6              | 107            |
|                     |                |                   | Illinois        | 5              | 311            |
| ARM SUPPLY          |                |                   | lowa            | 3              | 1, 690         |
| abama               | 48             | 41,347            | Kansas          | 4              | 144            |
| rkansas             | 42             | 46,699            | Louisiana       | 14             | 2, 306         |
| alifornia           | 20             | 13,915            | Maryland        | 3              | 104            |
| olorado             | 22             | 19,694            | Michigan        | 5              | 6, 225         |
| orida               | 6              | 8,332             | Minnesota       | 42             | 26, 035        |
| eorgia              | 8              | 2,737             | Mississippi     | 26             | 8, 346         |
| awaii               | 6              | 2,739             | New Mexico      | 4              | 1, 527         |
| aho                 | 16             | 14,152            | New York        | 5              | 14, 755        |
| inois               | 69             | 114,091           | North Carolina  | 6              | 123            |
| diana               | 30             | 62,576            | North Dakota    | 9              | 496            |
| wa                  | 87             | 100, 149          | Ohio            | 7              | 4, 993         |
| ansas               | 26             | 22, 165           | Oklahoma        | 26             | 8, 757         |

Appendix Table - Number 1 of co-ops and memberships\* by major business activity and State,1995 3 (continued)

State

Utah

Vermont

Virginia

Washington

Wisconsin

Wyoming

Foreign <sup>6</sup>

West Virginia

Other States

**United States** 

TOTAL (Continued)

| Appendix Table F NulliDei | or co-ops and  | member sink        |
|---------------------------|----------------|--------------------|
| State                     | Hqts. in State | Memberships        |
| SERVICE 12 (Continued)    |                |                    |
| Pennsylvania              | 8              | 16,916             |
| Texas                     | 162            | 42,343             |
| Washington                | 4              | 5,676              |
| Wisconsin                 | 49             | 32,450             |
| Other States              | 23             | 30,434             |
| United States             | 474            | 210,252            |
| TOTAL                     |                | ŕ                  |
| Alabama                   | 64             | 55,938             |
| Alaska                    | 13             | 6,246              |
| Arizona                   | 10             | 10,017             |
| Arkansas                  | 64             | 63,032             |
| California                | 192            | 59,551             |
| Colorado                  | 55             | 33,665             |
| Connecticut               | 4              | 3,310              |
| Delaware                  | 3              | •                  |
| Florida                   | 53             | 29,072<br>26,362   |
| Georgia                   | 25             | 40,156             |
| Hawaii                    | 40             | •                  |
| Idaho                     | 43             | 14,928<br>26,441   |
| Illinois                  | 210            | 235,239            |
| Indiana                   | 61             | 235,239<br>111,952 |
| lowa                      | 257            | •                  |
| Kansas                    | 159            | 24 1,348           |
|                           | 45             | 151,532            |
| Kentucky<br>Louisiana     | 45<br>55       | 203,061            |
| Maine                     | 22             | 15,086             |
|                           | 20             | 9,527              |
| Maryland                  |                | 53,464             |
| Massachusetts             | 15             | 5,343              |
| Michigan                  | 67             | 70.521             |
| Minnesota                 | 369            | 329,241            |
| Mississippi               | 69             | 112,303            |
| Missouri                  | 74             | 180,235            |
| Montana                   | 63             | 35,107             |
| Nebraska                  | 139            | 121,266            |
| New Jersey<br>New Mexico  | 19             | 8,220              |
| New York                  | 9              | 3,330              |
|                           | 95             | 61,930             |
| North Carolina            | 26             | 113,082            |
| North Dakota              | 294            | 143,844            |
| Ohio                      | 99             | 90,447             |
| Oklahoma                  | 106            | 77,651             |
| Oregon                    | 41             | 30,877             |
| Pennsylvania              | 63             | 62,073             |
| South Carolina            | 7              | 19,612             |
| South Dakota              | 151            | 116,128            |
| Tennessee                 | 79             | 148,933            |
| Texas                     | 262            | 130,729            |

Indudes centralized and federated cooperatives and those with mixed organizational structures.

Hqts. in State

22

7

67

92

28

225

4,006

14

5

Memberships

13,268

7,454

167,890

36.681

63,748

4,619

2.937

3,160

3.767.295

214,519

3 Data covering operations of cooperatives for fiscal years that ended in 1995. States listed are those with more than two cooperatives or where disclosure is not a problem.

4 Cotton ginning cooperatives in previous reports were included in this classification but reclassified as service cooperatives in 1989.

<sup>5</sup> Cooperatives performing specific services related to a commodity are included incorporated local associations of a federation that perform the actual marketing or processing are counted.

<sup>6</sup> Includes foreign memberships.

7 Excludes soybean meal and oil.

- Membership fluctuates annually depending upon producer participation in price stabilization programs.
- 9 includes eggs, turkeys, ratite, squab, and related products.
- <sup>10</sup> includes sugar, sugarcane, sugar beats, honey, maple syrup, molasses, and sorghum.
- <sup>11</sup> includes forest products, hay, hops, nursery stock, coffee, and other farm products not separately classified.
- 12 Cooperatives providing services related to marketing or purchasing activities. Major services provided are cotton ginning, trudding, storing, grinding, drying, and artificial insemination.

Indudes farmer-members (entitled to vote for directors), but not nonvoting patrons. (Duplication in these membership figures occurs because many farmers belong to more than one cooperative.) Totals may not add due to rounding.

|                        | Busir                                   | ess volume        | State          | Busine             | ess volume         |
|------------------------|---|-------------------|----------------|--------------------|--------------------|
| State                  | Gross                                   | Net               |                | Gross              | Net                |
|                        | 1.00                                    | 0 dollars         |                | 1,000              | 0 dollars          |
| PRODUCTS MAI           | RKETED:                                 |                   | FRUITS AND VEC | GETABLES (Continue | ed)                |
|                        |   |                   | Mississippi    | 13,657             | 13,262             |
| <b>BEANS AND PEAS</b>  | S, DRY EDIBLE                           |                   | New Jersey     | 211,438            | 211,062            |
| California             | 120,504                                 | 117,737           | New York       | 298,802            | 293,002            |
| Other States           | 90.717                                  | 90,718            | North Carolina | 21,003             | 19,447             |
|                        |   |                   | Ohio           | 6,953              | 6,953              |
| United States 3        | 211,221                                 | 208,455           | Oregon         | 575,884            | 575,647            |
|                        |   |                   | Pennsyhrania   | 289,416            | 279,438            |
| COTTON                 |   |                   | Texas          | 44,487             | 16,301             |
| California             | 635,298                                 | 587,321           | Vermont        | 9,427              | 9,427              |
| Mississippi<br>–       | 421,460                                 | 418,634           | Virginia       | 13,754             | 13,145             |
| Texas                  | 1,057,201                               | 1,006,424         | Washington     | 818,620            | 771,572            |
| Other States           | 788,926                                 | 786,704           | Other States   | 1 <b>,155,054</b>  | 1,122,360          |
| United States          | 2,902,885                               | 2,799,083         | Foreign 4      | 19,629             | 18,826             |
| DAIDY                  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , ,               | United States  | 9,947,892          | 9,271,953          |
| DAIRY                  |   |                   |                | , ,                |                    |
| California             | 2,791,553                               | 2,662,609         | GRAINS AND OIL | SEEDS EXCLUDING    | 3                  |
| Hawaii                 | 21,433                                  | 21,433            | COTTONSEED     |                    | _                  |
| Illinois               | 931,340                                 | 811,771           | Arkansas       | 187,296            | 186,213            |
| lowa                   | 930,828                                 | 862,796           | Colorado       | 280,851            | 249,146            |
| Michigan               | 652,961                                 | 624,033           | Idaho          | 43,315             | 43,315             |
| Minnesota              | 2,052,404                               | 1,788,794         | Illinois       | 2,076,317          | 2,068,292          |
| New York               | 1,621,652                               | 1,228,835         | Indiana        | 1,301,046          | 967,560            |
| North Dakota           | 173,157                                 | 157,713           | lowa           | 3,803,565          | <b>2,825,50</b> 5  |
| Ohio                   | 651,465                                 | 623,028           | Kansas         | 2,073,069          | 1,773,049          |
| Oregon                 | 256,390                                 | 241,765           | Michigan       | 412,655            | 270,923            |
| Pennsylvania           | 1,280,285                               | 965,356           | Minnesota      | <b>3,219,309</b>   | <b>2,377,43</b> 3  |
| Virginia               | 113,643                                 | 111,397           | Mississippi    | 86,430             |                    |
| Wisconsin              | 4,677,481                               | 4,383,774         | Missouri       | 820,718            | 80,775<br>570.775  |
| Other States           | 7,513,893                               | 7,300,505         | Montana        | 453,804            | 284,345            |
| United States          | 23,668,484                              | 21,783,809        | Nebraska       | <b>2,012,738</b>   | 1,737,404          |
| Officed States         | 23,000,404                              | 21,700,009        | North Dakota   | 2,256,260          | 1,831,526          |
| FRUITS AND VEGI        | FTARI FS                                |                   | Ohio           | 1,321,884          | 988,399            |
|                        |   | 120 156           | Oklahoma       | 615,396            | 966,399<br>447,918 |
| Arizona<br>Arkansas    | 159,451                                 | 139,156<br>1,355  | Oregon         | 150,380            | 150,150            |
| Arkansas<br>California | 1,355                                   |                   | <u>-</u>       | 1548,192           | 1,198,988          |
| California             | 3846,187                                | 3,469,272         | South Dakota   | •                  |                    |
| Colorado               | 27,055                                  | 27,055            | Texas          | 1,070,349          | 644,652            |
| Floriia                | 1,338,037                               | <b>1,28</b> 1,838 | Washington     | 845,660            | 631,773            |
| Georgia                | 24,359                                  | 20,402            | Other States   | 570,750            | 510.555            |
| Hawaii                 | 25,446                                  | 25,446            | Foreign 4      | 47,655             | 25,734             |
| Kentucky               | 7,894                                   | 7,894             | United States  | 25,197,639         | 19,864,430         |
| Maine                  | 33,683                                  | 33,683            |                | • • •              | , ,                |
| Massachusetts          | 504,103                                 | 504,103           |                |                    |                    |

411,307

502,198

Michigan

Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

| •             | Busine    | Business volume |                | Business volume |           |
|---------------|-----------|-----------------|----------------|-----------------|-----------|
| State         | Gross     | Net             | State          | Gross           | Net       |
|               | 1,00      | 0 dollars       |                | 1,000           | dollars   |
| LIVESTOCK     |           |                 | SUGAR          |                 |           |
| Alabama       | 69,804    | 69, 804         | Idaho          | 139,942         | 139,942   |
| Hawaii        | 4,086     | 4,086           | Louisiana      | 260,472         | 260,472   |
| ldaho         | 64,206    | 62,336          | Michigan       | 113,261         | 113,261   |
| Illinois      | 524,734   | 524,734         | Minnesota      | 590,726         | 522,467   |
| ndiana        | 116,694   | 116,894         | Montana        | 71,881          | 71,881    |
| Kentucky      | 24,062    | 24,082          | Wyoming        | 41,353          | 41,353    |
| Michigan .    | 675,979   | 675,979         | Other States   | 748,885         | 718,929   |
| Mississippi   | 94,524    | 94,524          | Foreign 4      | 298             | 298       |
| Missouri      | 244.316   | 244,316         | _              | 4 000 040       | 4 222 22  |
| North Dakota  | 91,244    | 84,119          | United States  | 1,966,818       | 1,868,603 |
| Ohio          | 304,856   | 304,858         |                |                 |           |
| /irginia      | 31,777    | 31,777          | TOBACCO        |                 |           |
| Vest Virginia | 3,261     | 3,261           | Kentucky       | 528,550         | 528,550   |
| Visconsin     | 555,291   | 548,166         | North Carolina | 231,834         | 231,834   |
| Other States  | 3,711,482 | 3,669,258       | Tennessee      | 292,463         | 292,463   |
| Foreign 4     | 15,549    | 15,549          | Virginia       | 24,683          | 24,683    |
| _             |           |                 | Other States   | 83,387          | 83,387    |
| Inited States | 6,532,089 | 6,473,743       | United States  | 1 ,160,917      | 1,160,917 |
| IUTS          |           |                 | WOOL AND MOHA  | IR              |           |
| California    | 618,904   | 618,904         | Idaho          | 116             | 110       |
| ławaii        | 24,056    | 24,056          | Montana        | 1,111           | 1,111     |
| Other States  | 222,640   | 222,640         | North Dakota   | 95              | 9:        |
| Jnited States | 865,600   | 865,600         | Pennsylvania   | 264             | 264       |
| Jimod Otatoo  | 000,000   | 000,000         | Utah           | 430             | 430       |
| OULTRY 5      |           |                 | Virginia       | 124             | 124       |
| California    | 41,882    | 41,882          | West Virginia  | 168             | 168       |
| Jtah          | 214,707   | 78,504          | Wyoming        | 82              | 82        |
| Other States  | 1,618,698 | 1,471,144       | Other States   | 20,014          | 13,031    |
| Jnited States | 1,875,287 | 1,591,530       | United States  | 22,404          | 15,421    |
| RICE          |           |                 | MISCELLANEOUS  | MARKETING 6     |           |
| California    | 230,729   | 229,439         | Alaska         | 13,040          | 13,040    |
| ouisiana      | 25,954    | 25,954          | California     | 247,692         | 247,848   |
| exas          | 58,151    | 58,151          | Florida        | 18,766          | 18,677    |
| Other States  | 585,998   | 585,998         | Georgia        | 17,145          | 17,145    |
|               |           |                 | Hawaii         | 13,792          | 13,792    |
| Inited States | 900,832   | 899,542         | Maine          | 23,056          | 23,056    |
|               |           |                 | Massachusetts  | 2,345           | 2,345     |
|               |           |                 | Michigan       | 65,414          | 64,680    |
|               |           |                 | <del>-</del>   |                 |           |
|               |           |                 | Minnesota      | 476,466         | 391,1     |

Appendix Table 2— Cooperative business volume 1 by commodity and State, 19952 (continued)

| _                    | Business volume |                   | _              | Business volume |                  |
|----------------------|-----------------|-------------------|----------------|-----------------|------------------|
| State                | Gross           | Net               | State          | Gross           | Net              |
|                      | 7,00            | ) dollars         |                | 1,000           | ) dollars        |
| <b>MISCELLANEOUS</b> | MARKETING (co   | ntinued)          | TOTAL FARM PRO | DDUCTS MARKETI  | ED (continued)   |
| Mississippi          | 163,493         | 159,451           | Tennessee      | 392,574         | 391,217          |
| North Dakota         | 59,320          | 45,666            | Texas          | 3,175,371       | 2,620,836        |
| Oregon               | 61,097          | 61,097            | Utah           | 523,774         | 380,434          |
| Washington           | 199,037         | 198,993           | Vermont        | 390,774         | 382,984          |
| Other States         | 1,116,214       | 1,049,521         | Virginia       | 254,445         | 249,550          |
| oreign 4             | 216,993         | 211,305           | Washington     | 2,732,649       | 2,420,036        |
| · ·                  |                 |                   | West Virginia  | 58,382          | 55,373           |
| Inited States        | 2,694,070       | 2,517,761         | Wisconsin      | 5,814,239       | 5,510,694        |
|                      |                 | _                 | Wyoming        | 47,044          | 47,044           |
|                      | DUCTS MARKETE   |                   | Other States   | 332,124         | 315,697          |
| Alabama<br>          | 1,017,012       | 970,180           | Foreign 4      | 300,124         | 271.712          |
| laska                | 13,040          | 13,040            | _              |                 |                  |
| rizona               | 704,420         | 666,601           | United States  | 77,946,138      | 69,320,846       |
| rkansas              | 1,172,449       | 1,164,760         |                |                 |                  |
| California           | 8,705,309       | 8,146,437         | FARM SUPPLIES  | PROVIDED:       |                  |
| Colorado             | 614,683         | 581,642           |                |                 |                  |
| Torida               | 2,227,104       | 2,165,583         | CROP PROTECTA  | NTS             |                  |
| Seorgia              | 774,767         | 767,566           | Alabama        | 90,610          | 45,871           |
| lawaii               | 92,606          | 92,606            | Arkansas       | 161,261         | 84,517           |
| daho                 | 856,545         | 849,727           | California     | 23,138          | 19,115           |
| inois                | 3,563,710       | 3,436,117         | Colorado       | 41,308          | 26,171           |
| ndiana               | 1,903,130       | 1,530,556         | Florida        | 16.200          | 15,970           |
| owa                  | 6,586,714       | 5,522,612         | Georgia        | 59,895          | 56,922           |
| ansas                | 2,782,406       | 2,482,386         | Hawaii         | 1,671           | 1,671            |
| entucky              | 813,399         | 783,664           | Idaho          | 34,049          | 16,812           |
| ouisiana             | 454,128         | 450,447           | Illinois       | 398,906         | 268,829          |
| laine                | 76,014          | 75,557            | Indiana        | 235,406         | 164,213          |
| 1assachusetts        | 909,132         | 904,852           | Iowa           | 463,370         | 369,544          |
| lichigan             | 2,472,931       | 2,210,646         | Kansas         | 136,721         | 92,939           |
| linnesota            | 6,765,968       | 5,386,882         | Kentucky       | 44,466          | 40,096           |
| 1ississippi          | 854,029         | 841,110           | Louisiana      | 64,795          | 33,279           |
| lissouri             | 2,220,784       | 1,956,533         | Maryland       | 20,813          | 18,783           |
| lontana              | 596,106         | 426,647           | Massachusetts  | 2,433           | 2,346            |
| ebraska              | 3,579,743       | 3,281,694         | Michigan       | 40,721          | 29,633           |
| ew Jersey            | 256,869         | 252,541           | Minnesota      | 340,786         | 286,763          |
| ew Mexico            | 163,275         | 162,784           | Mississippi    | 58,812          | 57,892           |
| ew York              | 2,003,628       | 1,605,012         | Missouri       | 86,274          | 67,803           |
| orth Carolina        | 531,132         | 525,277           | Montana        | 46,680          | 30,907           |
| orth Dakota          | 2,902,811       | 2,411,840         | Nebraska       | 191,704         | 152,777          |
| hio                  | 2,433,507       | 2,064,600         | New York       | 16,409          | 13,411           |
| klahoma              | 1,006,510       | 836,959           | North Dakota   | 140,348         | 106,599          |
| regon                | 1,159,840       | 1 <b>,120,445</b> | Ohio           | 94,079          | 82,396           |
| ennsylvania          | 1,680,201       | 1,355,293         | Oklahoma       | 27,256          | 19,544           |
| outh Carolina        | 61,930          | 61,558            |                | 37,742          |                  |
|                      | 1,968,806       | 1,571,116         | Oregon         |                 | 26,900<br>12,041 |
| outh Dakota          | 0,500,000       | 1,071,110         | Pennsylvania   | 12,576          | 12,041           |
|                      |                 |                   | South Dakota   | 132,044         | 102,895          |

|                           | Business volume |           |                        | Business volume  |           |
|---------------------------|-----------------|-----------|------------------------|------------------|-----------|
| State                     | Gross           | Net       | State                  | Gross            | Net       |
|                           | 1,000           | dollars   |                        | 1,000 dollars    |           |
| CROP PROTECTANTS          | (Continued)     |           | FEED (Continued)       |                  |           |
| Tennessee                 | 123,169         | 68,002    | Virginia               | 102,796          | 88,793    |
| Гехаѕ                     | 76,139          | 57,035    | Washington             | 87,398           | 33,320    |
| Jtah                      | 20,316          | 9,928     | West Virginia          | 16,112           | 13,721    |
| /irginia                  | 22,290          | 18,857    | Wisconsin              | 397,122          | 268,351   |
| Vashington                | 51,958          | 37,213    | Wyoming                | 1,607            | 1,807     |
| Vest Virginia             | 3,165           | 2,861     | Other States           | 465,634          | 427,750   |
| Visconsin                 | 169,996         | 117,440   | Foreign 4              | 133,127          | 61,953    |
| Vyoming                   | 15,357          | 4,969     | -                      |                  | -         |
| Other States              | 75,428          | 67,434    | United States          | 6,639,436        | 5,017,012 |
| Foreign 4                 | 33,816          | 3,307     |                        |                  |           |
| _                         |                 |           | FERTILIZER             |                  |           |
| Jnited States             | 3,612,107       | 2,627,685 | Alabama                | 126,082          | 69,972    |
|                           |                 |           | Arkansas               | 168,321          | 90,385    |
| EED                       |                 |           | California             | 77,151           | 75,906    |
| Mabama                    | 188,607         | 171,139   | Colorado               | 114,665          | 80,437    |
| rkansas                   | 152,189         | 94,331    | Florida                | 165,604          | 41,809    |
| California                | 166,732         | 131,843   | Georgia                | 81,403           | 74,541    |
| Colorado                  | 47,593          | 36,481    | Hawaii                 | 20,878           | 2,402     |
| -<br>Florida              | 84,930          | 83,125    | Idaho                  | 59,784           | 32,329    |
| Seorgia                   | 247,388         | 245,663   | Illinois               | 794,485          | 414,224   |
| lawaii                    | 17,428          | 5,798     | Indiana                | 555,430          | 264,877   |
| daho                      | 40,105          | 21,789    | Iowa                   | 800,698          | 491,633   |
| linois                    | 275,550         | 202,332   | Kansas                 | 495,982          | 339,456   |
| ndiana                    | 285,714         | 140,275   | Kentucky               | 147,336          | 98,983    |
| owa                       | 1,020,081       | 778,024   | Louisiana              | 52,212           | 28,417    |
| Kansas                    | 262,819         | 177,338   | Maryland               | 31,673           | 28,944    |
| (entucky                  | 57,694          | 47,825    | Massachusetts          | 4,354            | 4,193     |
| .ouisiana                 | 49,836          | 30,736    | Michigan               | 69,044           | 46,447    |
| Maryland                  | 40,711          | 36,397    | Minnesota              | 613,307          | 379,525   |
| Massachusetts             | 32,898          | 31,623    | Mississippi            | 69,878           | 65,956    |
| nassachusetts<br>Nichigan | 64,578          | 60,800    | Missouri               | 370,395          | 226,764   |
| /linnesota                | 617,285         | 463,391   | Montana                | 91,067           | 61,022    |
| Mississippi               | 75,218          | 57,462    | Nebraska               | 386,904          | 288,337   |
| lissouri                  | 233,188         | 188,749   | New York               | 24,979           | 24,097    |
| Montana                   | 233,100         | 17,714    | North Dakota           | 348,456          | 208,504   |
| lebraska                  | 25,279          | 157,884   | Ohio                   | 188,759          | 129,446   |
| lew York                  | 138,048         | 123,817   | Oklahoma               | 147,770          | 104,914   |
| lorth Dakota              | 59,887          | 40,797    | Oregon                 | 63,669           | 42,270    |
| Ohio                      | 131,299         | 128,663   | Pennsylvania           | 22,324           | 21,549    |
| )klahoma                  | 81,050          | 59,974    | South Dakota           | 227,186          | 145,290   |
|                           | 108,220         | 42,512    |                        | 237,085          | 125,032   |
| regon<br>Poppsylvania     |                 |           | Tennessee              |                  |           |
| Pennsylvania              | 117,973         | 110,069   | Texas                  | 243,092          | 158,113   |
| South Dakota              | 151,959         | 110,603   | Utah<br>Virginia       | 31,280<br>67.174 | 20,160    |
| ennessee                  | 202,128         | 118,521   | Virginia<br>Washington | 67,174<br>46,572 | 61,034    |
| exas                      | 157,238         | 127,809   | Washington             | 46,572           | 30,394    |
| Jtah                      | 78,705          | 77,833    | West Virginia          | 9,279            | 8,462     |

Appendix Table 2—Cooperative business volume 1 by commodity and State, 1995 (continued)

| <b>.</b>             | Busine    | ess volume       | <b>.</b>              | Business volume |           |  |
|----------------------|-----------|------------------|-----------------------|-----------------|-----------|--|
| State                | Gross     | Net              | State                 | Gross           | Net       |  |
|                      | 7.00      | <b>0</b> dollars |                       | 1,000 dollars   |           |  |
| FERTILIZER (contin   | nued)     |                  | PETROLEUM (Continued) |                 |           |  |
| Wisconsin            | 323,328   | 181,176          | Other States          | 205, 966        | 174,516   |  |
| Wyoming              | 27,418    | 9,080            | Foreign 4             | 195,842         | 59,064    |  |
| Other States         | 131,246   | 118,044          | United Ctatas         | 0 122 025       | 5,210,892 |  |
| Foreign <sup>4</sup> | 475,446   | 97,992           | United States         | 8,133,935       | 5,210,892 |  |
| United States        | 7,911,716 | 4,692,116        | SEED                  |                 |           |  |
|                      |           |                  | Alabama               | 47,398          | 19,806    |  |
| PETROLEUM            |           |                  | Arkansas              | 36,701          | 21,695    |  |
| Alabama              | 7,626     | 7,400            | California            | 19,393          | 19,393    |  |
| Arkansas             | 105,198   | 62,597           | Colorado              | 3,192           | 3,192     |  |
| California           | 7,054     | 6,984            | Florida               | 7,493           | 5,818     |  |
| Colorado             | 209,945   | 124,523          | Georgia               | 15,707          | 14,987    |  |
| Florida              | 3,449     | 3,449            | Hawaii                | 313             | 313       |  |
| Georgia              | 7,983     | 7,983            | Idaho                 | 12,646          | 6,127     |  |
| Hawaii               | 488       | 488              | Illinois              | 59,589          | 39,775    |  |
| daho                 | 122,121   | 61,515           | Indiana               | 44,115          | 25,173    |  |
| Illinois             | 634,458   | 377,794          | lowa                  | 60,239          | 38,786    |  |
| ndiana               | 369,870   | 238,527          | Kansas                | 10,113          | 10,113    |  |
| owa                  | 705,653   | 426,448          | Kentucky              | 22,695          | 20,591    |  |
| Kansas               | 884,936   | 317,091          | Louisiana             | 20,508          | 10,676    |  |
| Kentucky             | 81,362    | 64,413           | Maryland              | 10,641          | 9,656     |  |
| _ouisiana            | 20,533    | 13,867           | Massachusetts         | 2,332           | 2,279     |  |
| Maryland             | 62,309    | 56,085           | Michigan              | 11,536          | 11,228    |  |
| Vassachusetts        | 25,577    | 21,165           | Minnesota             | 47,612          | 40,229    |  |
| Michigan             | 145,745   | 70,835           | Mississippi           | 13,682          | 13,682    |  |
| Minnesota            | 556,398   | 461,857          | Missouri              | 49,511          | 22,475    |  |
| Mississippi          | 20,876    | 19,614           | Montana               | 5,933           | 4,512     |  |
| Missouri             | 511,977   | 361,768          | Nebraska              | 9,279           | 7,021     |  |
| Montana              | 174,238   | 128,565          | New York              | 8,006           | 7,656     |  |
| Nebraska             | 404,901   | 276,656          | North Dakota          | 24,448          | 22,272    |  |
| New York             | 173,518   | 143,233          | Ohio                  | 20,207          | 20,207    |  |
| North Dakota         | 296,656   | 228,075          | Oklahoma              | 4,306           | 4,306     |  |
| Ohio                 | 112,636   | 91,873           | Oregon                | 12,782          | 12,782    |  |
| Oklahoma             | 261,547   | 90,505           | Pennsylvania          | 7,015           | 6,707     |  |
| Oregon               | 142,690   | 93,987           | South Dakota          | 13,396          | 10,905    |  |
| Pennsyivania         | 152,812   | 126,512          | Tennessee             | 53,807          | 33,400    |  |
| South Dakota         | 306,112   | 220,221          | Texas                 | 16,067          | 16,067    |  |
| Tennessee            | 101,926   | 64,691           | Utah                  | 2,387           | 2,387     |  |
| Гехаѕ                | 157,682   | 106,931          | Virginia              | 21,585          | 19,635    |  |
| Jtah                 | 78,342    | 15,879           | Washington            | 19,739          | 19,029    |  |
| /irginia             | 111,486   | 94,938           | West Virginia         | 4,119           | 3,701     |  |
| Nashington           | 159,598   | 115,918          | <b>3</b>              | ,               | -, -,     |  |
| West Virginia        | 27,091    | 25,351           |                       |                 |           |  |
| Visconsin            | 486,518   | 394,295          |                       |                 |           |  |
| Wyoming              | 100,816   | 55,279           |                       |                 |           |  |

Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

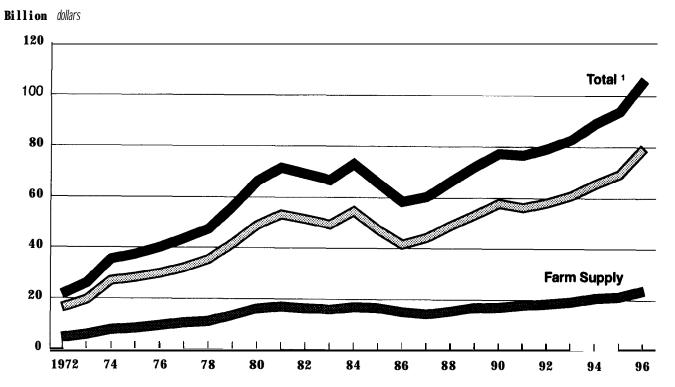
| State            | Busine    | ss volume | •                                    | Business volume |                  |
|------------------|-----------|-----------|--------------------------------------|-----------------|------------------|
| State            | Gross     | Net       | State                                | Gross           | Net              |
|                  | 1,000     | dollars   |                                      | 1,00            | <b>0</b> dollars |
| SEED (continued) |           |           | MISCELLANEOUS SUPPLIES 7 (continued) |                 |                  |
| Wisconsin        | 33,358    | 23,729    | Wisconsin                            | 232,943         | 215,918          |
| Wyoming          | 809       | 591       | Wyoming                              | 29,378          | 27,610           |
| Other States     | 34,238    | 30,889    | Other States                         | 271,607         | 244,816          |
| Foreign 4        | 4,289     | 912       | Foreign 4                            | 30,231          | 7,873            |
| United States    | 790,984   | 582,702   | United States                        | 3,876,369       | 3,082,977        |
| MISCELLANEOUS S  | SUPPLIES' |           | TOTAL FARM SUP                       | PLIES           |                  |
| Alabama          | 92,211    | 80,775    | Alabama                              | 552,534         | 394,963          |
| Arkansas         | 128,148   | 88,907    | Arkansas                             | 749,818         | 442,432          |
| California       | 187,328   | 91,990    | California                           | 460,794         | 345,232          |
| Colorado         | 54,258    | 45,473    | Colorado                             | 470,960         | 316,277          |
| Florida          | 95,318    | 95,312    | Florida                              | 372,993         | 245,482          |
| Georgia          | 82,718    | 79,168    | Georgia                              | 495,092         | 479,263          |
| Hawaii           | 8,833     | 5,109     | Hawaii                               | 49,410          | 15,781           |
| ldaho            | 41,110    | 35,895    | Idaho                                | 309,816         | 174,467          |
| Illinois         | 149,049   | 80,274    | Illinois                             | 2,312,037       | 1,383,228        |
| Indiana          | 88,593    | 48,692    | Indiana                              | 1,557,128       | 881,757          |
| owa              | 200,089   | 148,125   | Iowa                                 | 3,250,110       | 2,252,561        |
| Kansas           | 114,831   | 80,243    | Kansas                               | 1,905,403       | 1,017,180        |
| Kentucky         | 70,440    | 60,319    | Kentucky                             | 423,992         | 332,226          |
| Louisiana        | 49,484    | 34,051    | Louisiana                            | 257,349         | 151,025          |
| Maryland         | 35,788    | 32,288    | Maryland                             | 201,915         | 182,153          |
| Massachusetts    | 23,748    | 23,065    | Massachusetts                        | 91,340          | 84,671           |
| Michigan         | 90,392    | 76,377    | Michigan                             | 422,016         | 295,321          |
| Minnesota        | 249,235   | 198,647   | Minnesota                            | 2,424,623       | 1,824,412        |
| Mississippi      | 45,298    | 45,296    | Mississippi                          | 283,761         | 259,901          |
| Missouri         | 107,928   | 67,209    | Missouri                             | 1,359,271       | 934,768          |
| Montana          | 49,402    | 45,445    | Montana                              | 390,599         | 288,165          |
| Nebraska         | 93,557    | 75,734    | Nebraska                             | 1,311,455       | 958,409          |
| New York         | 187,310   | 136,042   | New York                             | 528,270         | 448,256          |
| North Dakota     | 115,151   | 107,019   | North Dakota                         | 984,947         | 713,266          |
| Ohio             | 85,258    | 66,594    | Ohio                                 | 632,236         | 519,178          |
| Oklahoma         | 42,350    | 31,687    | Oklahoma                             | 564,280         | 310,929          |
| Oregon           | 112,625   | 108,711   | Oregon                               | 477,728         | 327,162          |
| Pennsylvania     | 100,371   | 96,340    | Pennsylvania                         | 413,071         | 373,217          |
| South Dakota     | 77,879    | 68,416    | South Dakota                         | 908,576         | 658,329          |
| Tennessee        | 165,714   | 97,545    | Tennessee                            | 883,828         | 507,192          |
| Texas            | 99,582    | 80,374    | Texas                                | 749,800         | 546,329          |
| Utah             | 43,955    | 41,318    | Utah                                 | 254,985         | 167,505          |
| Virginia         | 155,407   | 115,407   | Virginia                             | 480,738         | 398,665          |
| Washington       | 105,062   | 74,089    | Washington                           | 470,327         | 309,962          |
| West Virginia    | 28,062    | 24,824    | 3                                    | •               | •                |

Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

| 000             | Business volume  |            | _                  | Business volume |            |
|-----------------|------------------|------------|--------------------|-----------------|------------|
| State           | Gross            | Net        | State              | Gross           | Net        |
|                 | 1,00             | 00 dollars |                    | 1,000           | 0 dollars  |
| OTAL FARM SUPP  | LIES (continued) |            | TOTAL: (continued) |                 |            |
| est Virginia    | 87,828           | 78,919     | Hawaii             | 152,372         | 118,743    |
| isconsin (      | 1,643,265        | 1,200,910  | Idaho              | 1,174,433       | 1,032,266  |
| yoming          | 175,384          | 99,336     | Illinois           | 6,077,801       | 5,021,399  |
| ther States     | 1,184,118        | 1,063,453  | Indiana            | 3,539,946       | 2,492,001  |
| oreign 4        | 872,750          | 231 ,102   | Iowa               | 10,056,777      | 7,995,126  |
| _               | 00 004 547       | 04 040 004 | Kansas             | 4,795,699       | 3,607,457  |
| nited States    | 30,964,547       | 21,213,384 | Kentucky           | 1,247,313       | 1,125,812  |
| EDVICES DROVIDE | :D. 4            |            | Louisiana          | 733,316         | 623,311    |
| ERVICES PROVIDE |                  | 45.000     | Maine              | 235,597         | 226,460    |
| abama           | 15,280           | 15,260     | Maryland           | 427,835         | 396,489    |
| rizona          | 28,633           | 28,633     | Massachusetts      | 1,008,168       | 997,220    |
| kansas          | 125,359          | 125,359    | Michigan           | 2,967,013       | 2,578,034  |
| alifornia       | 399,299          | 399,299    | Minnesota          | 9,401,735       | 7,422,439  |
| awaii           | 10,355           | 10,355     | Mississippi        | 1 ,193,004      | 1,156,226  |
| nois            | 202,054          | 202,054    | Missouri           | 3,780,417       | 3,091,663  |
| wa              | 219,954          | 219,954    | Montana            | 993,521         | 721,629    |
| nsas            | 107,691          | 107,891    | Nebraska           | 5,006,270       | 4,355,176  |
| uisiana         | 21,839           | 21,839     | New Jersey         | 392,934         | 373,128    |
| aryland         | 3,895            | 3,895      | New Mexico         | 179,428         | 178,066    |
| chigan          | 72,066           | 72,066     | New York           | 2,733,844       | 2,255,214  |
| nnesota         | 211,144          | 211,144    | North Carolina     | 802,832         | 760,505    |
| ssissippi       | 55,214           | 55,214     | North Dakota       | 3,934,263       | 3,171,612  |
| w Mexico        | 3,683            | 3,663      | Ohio               | 3,156,330       | 2,674,366  |
| w York          | 201,946          | 201,946    | Oklahoma           | 1,607,982       | 1,185,081  |
| rth Carolina    | 20,916           | 20,916     | Oregon             | 1,683,264       | 1,493,302  |
| rth Dakota      | 46,506           | 46,506     | Pennsylvania       | 2,134,216       | 1,769,454  |
| iio             | 90,588           | 90,588     | South Carolina     | 276,064         | 270,859    |
| lahoma          | 37,192           | 37,192     | South Dakota       | 2,922,705       | 2,274,768  |
| nnsylvania      | 40,944           | 40,944     | Tennessee          | 1,304,892       | 926,899    |
| xas             | 340,518          | 340,518    | Texas              | 4,265,690       | 3,507,682  |
| ashington       | 154,096          | 154,096    | Utah               | 810,199         | 579,378    |
| sconsin         | 88,871           | 88,871     | Vermont            | 503,741         | 466,653    |
| her States      | 785,794          | 785,794    | Virginia           | 771,113         | 664,145    |
| ited States     | 3,284,017        | 3,284,017  | Washington         | 3,357,072       | 2,884,094  |
|                 | -, ,,            | 0,007,011  | West Virginia      | 146,921         | 135,003    |
| TAL:            |                  |            | Wisconsin          | 7,546,376       | 6,800,475  |
| abama           | 1,584,806        | 1,380,403  | Wyoming            | 223,226         | 147,178    |
| aska            | 52,313           | 41,846     | Other States       | 117,810         | 110.646    |
| zona            | 774,972          | 721,816    | Foreign 4          | 1,172,874       | 502,814    |
| kansas          | 2,047,625        | 1,732,551  | · -· -·            | .,,             |            |
| lifornia        | 9,565,402        | 8,890,968  |                    |                 |            |
| lorado          | 1,111,800        | 924,076    | U.S.               | 112,194,702     | 93,818,247 |
| nnecticut       | 135,552          | 126,710    |                    |                 |            |
| laware          | 94,375           | 86,123     |                    |                 |            |
| orida           | 2,687,777        | 2,498,745  |                    |                 |            |
| eorgia          | 1,305,067        | 1,282,038  |                    |                 |            |

- Data covering operations of cooperatives whose business years ended in 1995. Includes independent local cooperatives, federations, centralized regional cooperatives, and cooperatives with mixed organizational structures. The volume of products marketed is allocated to the State in which they were originated and the volume of farm supplies is allocated to the State in which they were sold; service volume and other income is allocated to the State of origin when services relate to farm products marketed or to the State of destination when related to farm supplies sold.
- <sup>2</sup> Gross business volume includes sales between cooperatives. Net business volume excludes sales between cooperatives. States listed are those where more than two cooperatives handle the commodity or farm supply or where disclosure is not a problem. Totals may not add due to rounding.
- <sup>3</sup> Revised.
- Includes value of farm products imported, farm supplies exported, services related to imported farm products or exported farm supplies, sales to domestic military installations, or sales of farm products not received directly from member-patrons.
- <sup>5</sup> Includes eggs, turkeys, ratite, squab, and related products.
- Includes forest products, hay, hops, nursery stock, fish, coffee, seed marketed for growers, and other farm products not separately classified plus manufactured food products and resale items marketed by cooperatives.
- 7 Includes building supplies, containers and packaging supplies, farm machinery and equipment, animal health products, automotive supplies, food, hardware, chicks, and other supplies not separately classified.
- Income from services related to marketing and purchasing activities not included in these volumes.

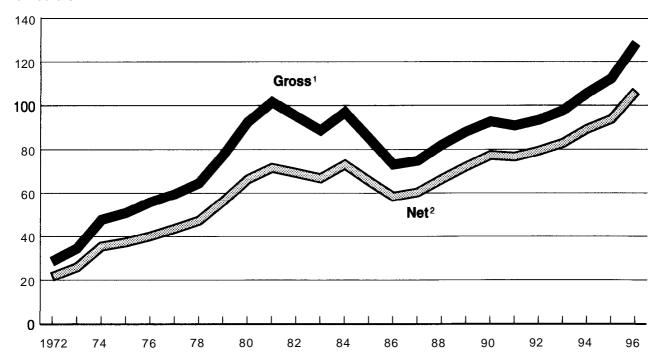
# Appendix Figure 1— Cooperatives' Net Business Volume, 1972-96



<sup>&</sup>lt;sup>1</sup> Total includes value of related services and other income.

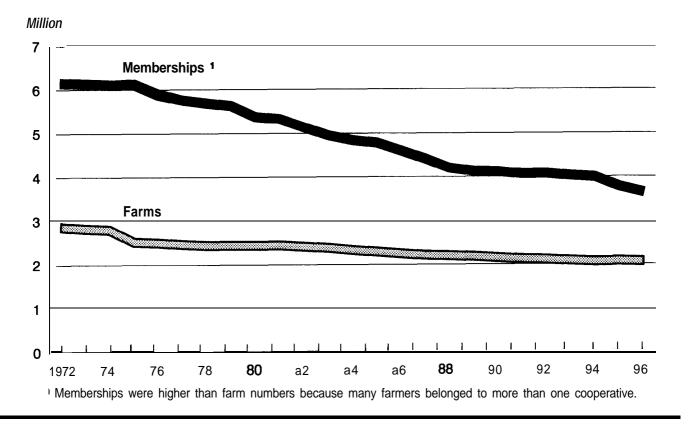
Appendix Figure 2— Cooperatives' Gross and Net Business Volumes, 1972-96

#### Billion dollars

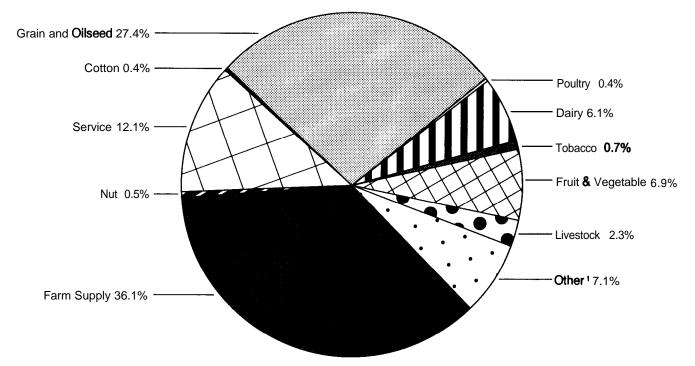


<sup>&</sup>lt;sup>1</sup> Includes intercooperative business. <sup>2</sup> Excludes intercooperative business.

Appendix Figure 3— U.S. Farms and Farmer Cooperative Memberships, 1972-96



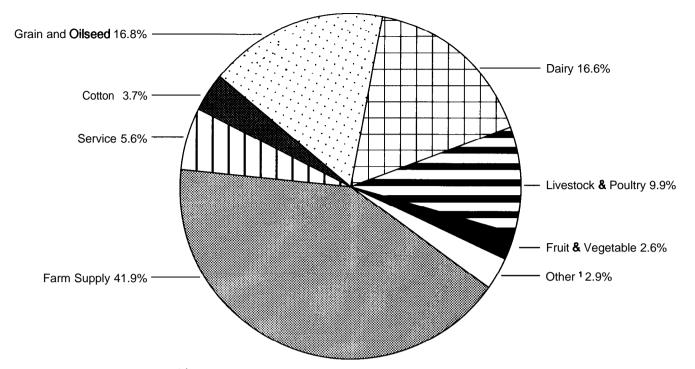
## Appendix Figure 4— Distribution of Farmer Cooperatives by Type of Cooperative, 1996



Percent based on 3,884 cooperatives.

<sup>1</sup> Includes dry bean and pea, rice, wool and mohair, sugar, fishery, and other miscellaneous marketing cooperatives.

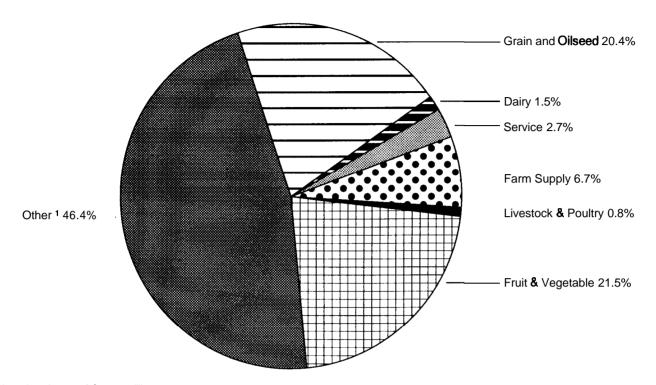
## Appendix Figure 5— Distribution of Net Income by Type of Cooperative, 1996



Percent based on total net income of \$2.25 billion.

<sup>&</sup>lt;sup>1</sup> Includes dry bean and pea, nut, rice, sugar, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

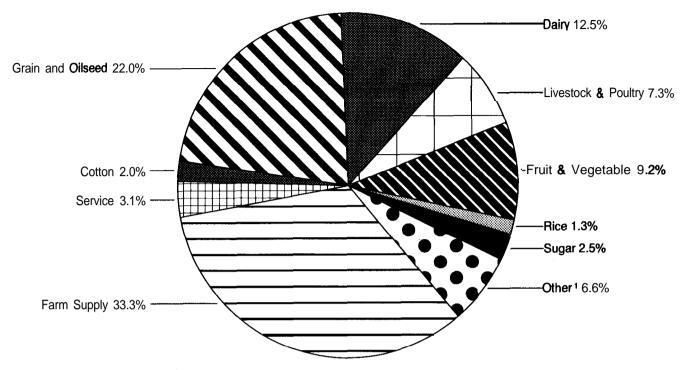
# Appendix Figure 6— Distribution of Losses by Type of Cooperative, 1996



Percent based on losses of \$187.8 million.

<sup>1</sup> Includes cotton, dry bean and pea, nut, rice, sugar, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

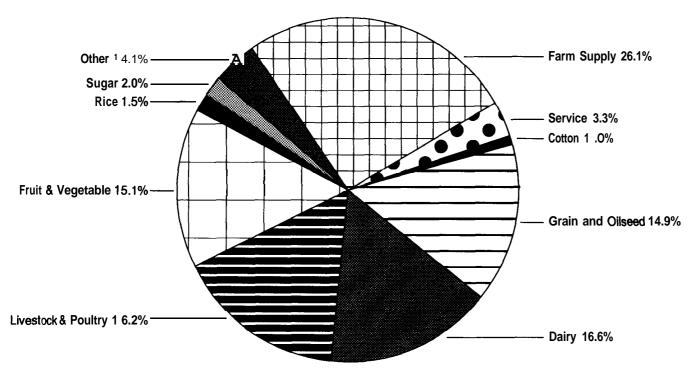
#### Appendix Figure 7— Distribution of Net Worth by Type of Cooperative, 1996



Percent based on total net worth of \$17.4 billion.

Includes dry bean and pea, nut, tobacco, wool and mohair, and other miscellaneous marketing cooperatives.

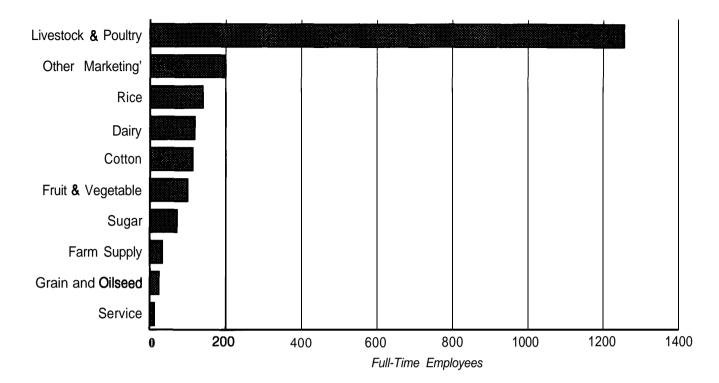
#### Appendix Figure 8— Distribution of Full-Time Employees by Type of Cooperative, 1996



Percent based on 174,795 full-time employees.

Includes dry bean and pea, nut, sugar, tobacco, wool and mohair, and other miscellaneous marketing cooperatives.

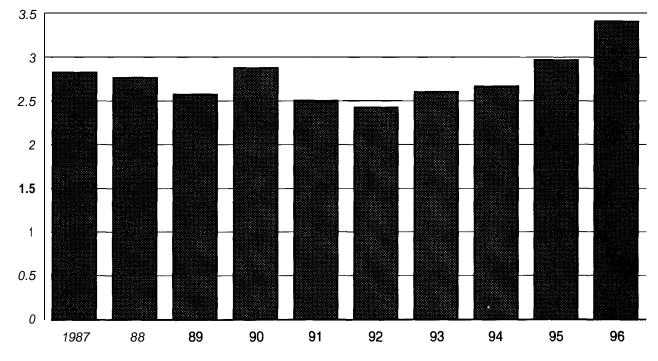
# Appendix Figure 9— Average Number of Full-Time Employees Per Cooperative, by Co-op Type, 1996



<sup>&</sup>lt;sup>1</sup> Includes dry bean and pea, nut, tobacco, wool and mohair, and other miscellaneous marketing co-ops.

# Appendix Figure 10— Cooperatives' Investments in Other Cooperatives, 1987-96

## Billion dollars



# U.S. Department of Agriculture Rural Business-Cooperative Service

1400 Independence Ave., SW, Stop 3257 Washington, D.C. 20250-3257

Rural Business-Cooperative Service (RBS) provides research, management, and educational assistance to cooperatives to strengthen the economic position of farmers and other rural residents. It works directly with cooperative leaders and Federal and State agencies to improve organization, leadership, and operation of cooperatives and to give guidance to further development.

The cooperative segment of RBS (1) helps farmers and other rural residents develop cooperatives to obtain supplies and services at lower cost and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs. RBS also publishes research and educational materials and issues *Rural Cooperatives* magazine.

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