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United States  
**Department of**  
Agriculture

Rural Business-  
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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.

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### Farmer Cooperative Statistics, 1996

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

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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 **nonrespondents** 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	<b>1996</b>	<b>1995</b>	<b>Change</b>
Number of cooperatives	3,884	4,006	<b>(122)</b>
Memberships	<b>3,663,584</b>	<b>3,767,295</b>	(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	<b>2,363</b>	(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)
<b>Leading States</b>	<b>1996</b>	<b>1995</b>	
Number of cooperatives	Minnesota 378	Minnesota 389	<b>(11)</b>
	<b>1995</b>	<b>1993</b>	
Memberships	Minnesota 329,241	Minnesota 392,815	(63,574)
Net business volume (mil. dol.)	California 8,891	California 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 non-members 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.

Marketing 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.

Farm supply 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.

Service 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

<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 cooperatives.

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## II—1996 Statistics

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Cooperatives' net business volume of \$106.2 billion in 1996 was a record high. Net income of \$2.25 billion,<sup>2</sup> 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

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<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>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
<i>Number</i>		
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 <sup>1</sup>	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	<b>102</b>	<b>74,236</b>
Total marketing	2,012	<b>1,682,408</b>
Farm supply	1,403	<b>1,794,671</b>
Service	<b>469</b>	<b>186,505</b>
Total	3,884	<b>3,663,584</b>

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

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

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

State	Major function				Total
	Marketing	Farm	Supplies	Service	
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 <sup>3</sup>	348		303	39	690
United States	2,012		1,403	469	3,884

— = None identified.

<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

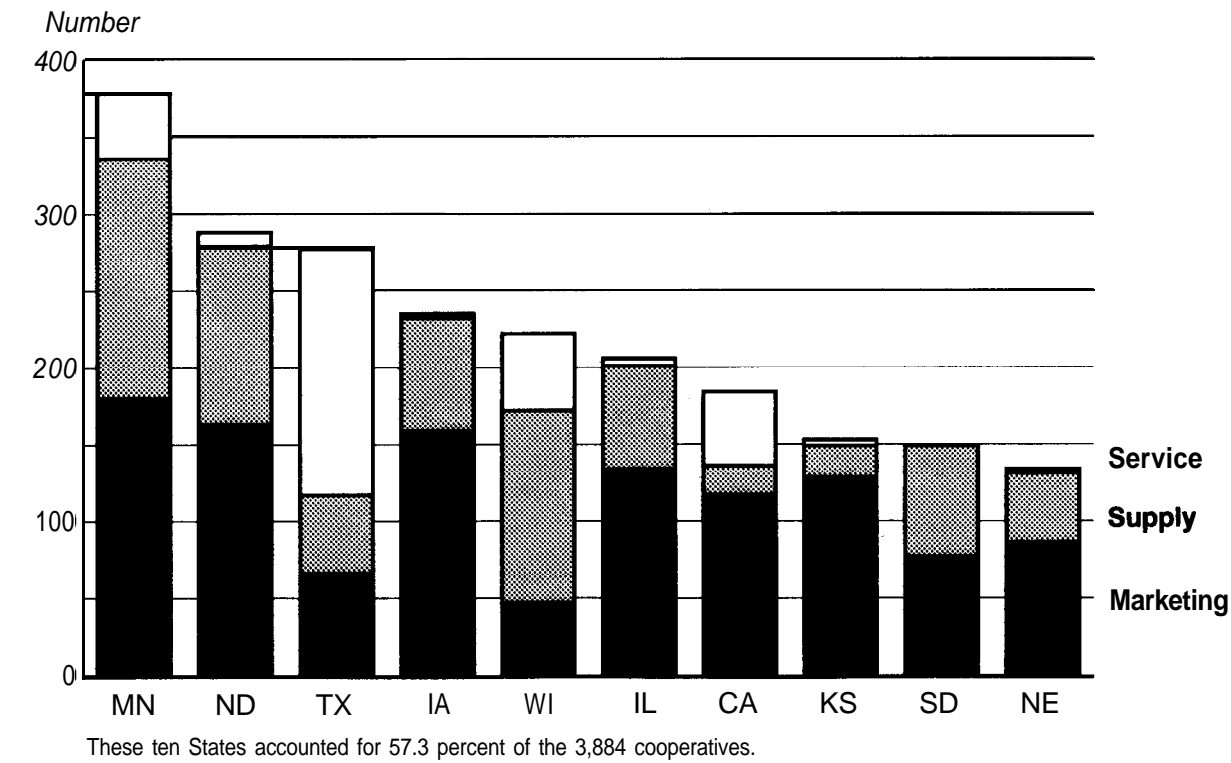
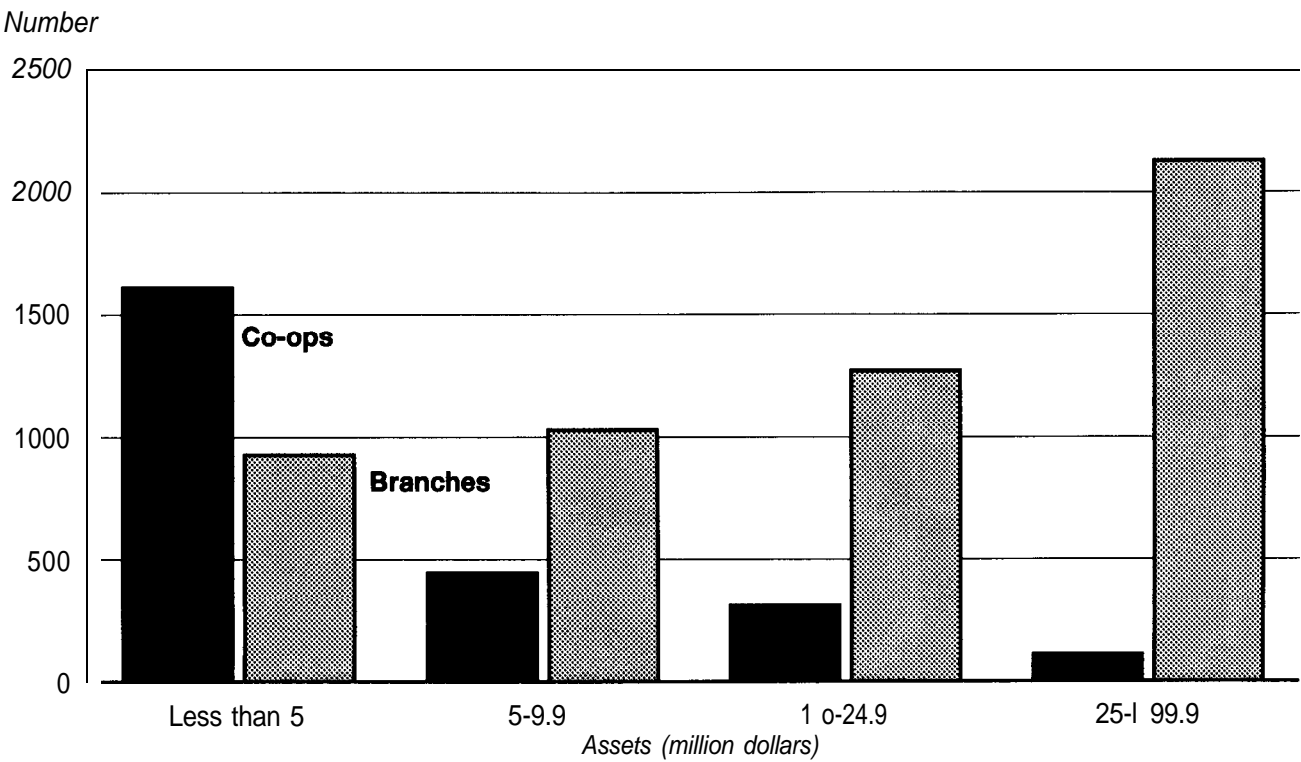


Figure 2— Branches of Grain and Farm Supply Cooperatives by Size, 1996



## 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.

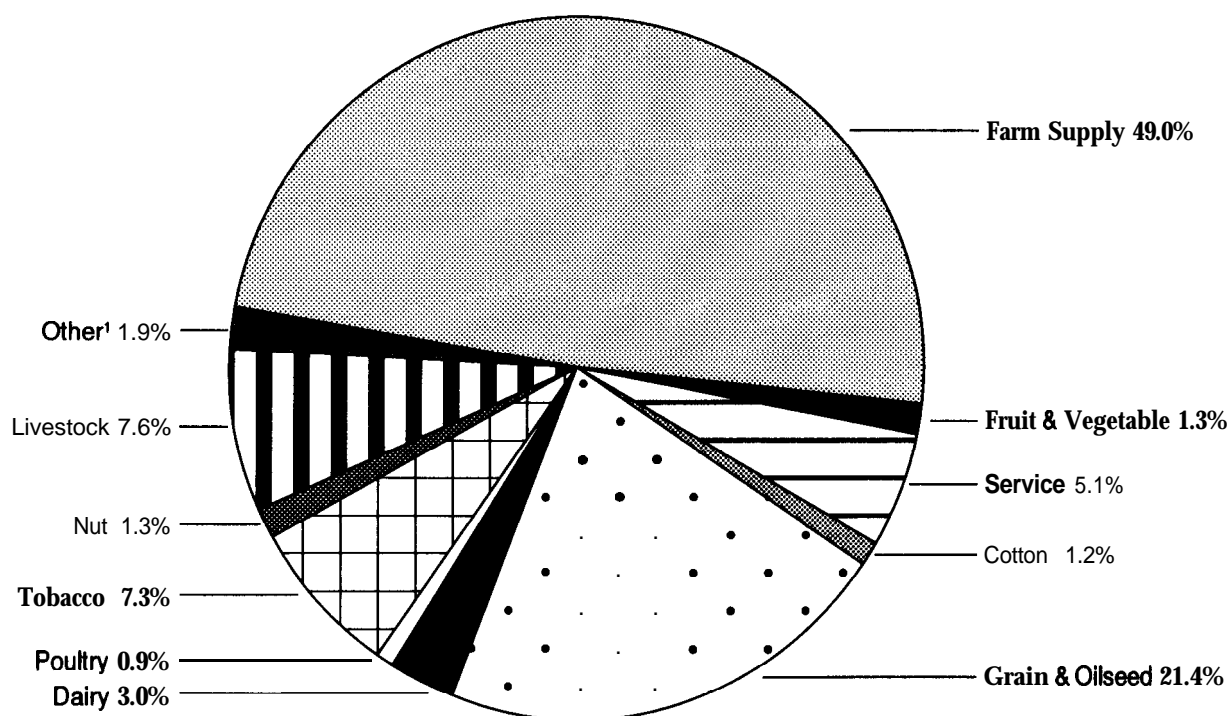
## Business Size

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

Table 3— Estimated number of branches operated by grain and farm supply cooperatives, 1992-96

Year	Asset Group (million dollars)				Total
	Less than 5	5 - 9.9	10 - 24.9	25 or more	
Number of Grain Cooperatives					
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 Branches					
1992	441	480	529	417	1, 867
1993	410	479	688	488	2, 065
1994	408	535	674	424	2, 041
1995	399	440	756	577	2, 172
1996	387	505	743	691	2. 328
Number of Farm Supply Cooperatives					
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 Branches					
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	526	1, 438	3, 029

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



Percent based on 3,663,584 memberships.

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

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.<sup>4</sup>

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

<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

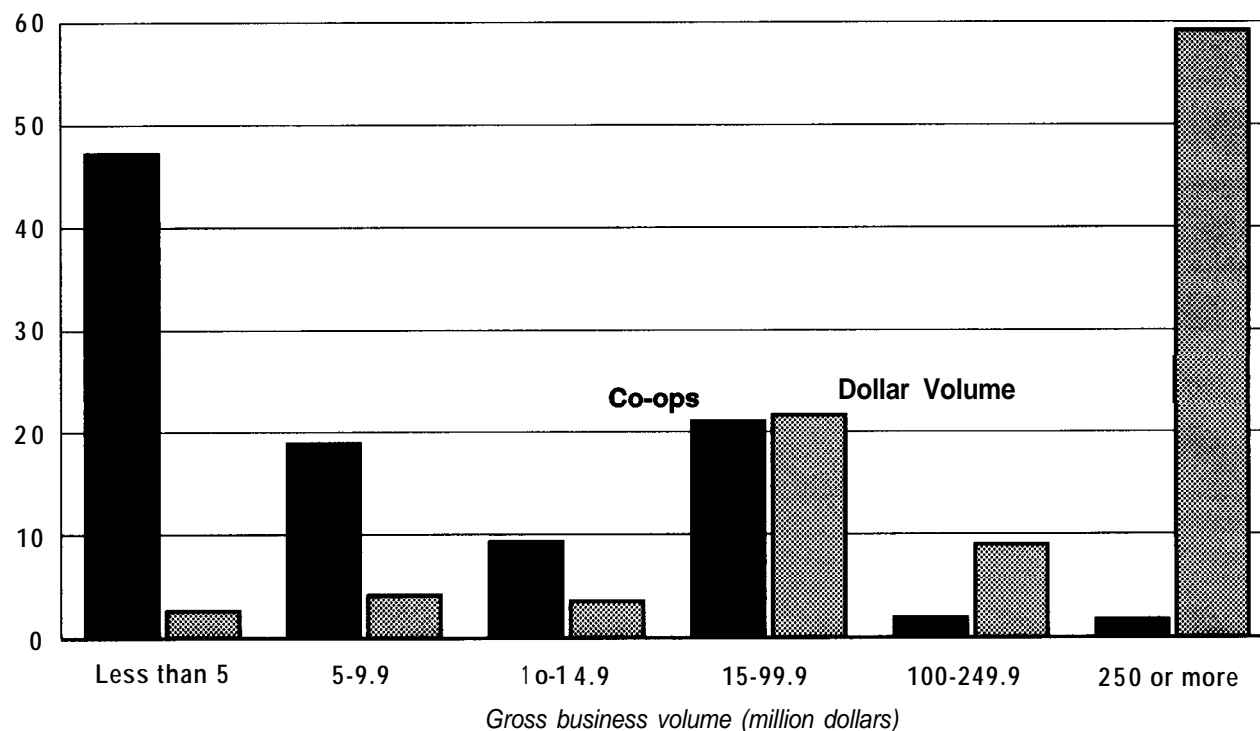


Table 4— Farmer cooperatives grouped by gross business volume, 1996<sup>1</sup>

Volume group (mil. dol.)	Cooperatives		Dollar volume	
	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 more	18	0.5	50,667.1	39.6
Total	3,884	100.0	128,098.5	100.0

<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>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

Tables- **Cooperatives' gross and net business volumes by commodity, 1996 <sup>1</sup>**

Commodity	Gross volume		Net volume	
	<i>Million dollars</i>	<i>Percent</i>	<i>Million dollars</i>	<i>Percent</i>
<b>Products marketed:</b>				
Beans and peas (dry edible)	179.0	0.1	179.0	0.2
Cotton	<b>2,734.9</b>	2.1	<b>2,658.6</b>	2.5
Dairy	<b>25,969.5</b>	20.3	<b>22,934.5</b>	21.6
Fruits and vegetables	<b>9,914.3</b>	7.7	9,392.0	8.8
Grains and oilseeds excluding cottonseed	<b>33,889.4</b>	26.5	<b>27,656.9</b>	26.1
Livestock	<b>6,745.6</b>	5.3	<b>6,725.2</b>	6.3
Nuts	951.6	<b>.7</b>	951.6	<b>.9</b>
Poultry <sup>3</sup>	<b>2,122.7</b>	1.7	<b>1,754.1</b>	1.7
Rice	901.1	0.7	899.6	0.6
Sugar	<b>2,015.8</b>	1.6	<b>1,933.3</b>	1.8
Tobacco	<b>1,412.0</b>	1.1	<b>1,412.0</b>	1.3
Wool and mohair	13.3	<b>(?)</b>	7.9	<b>(?)</b>
Miscellaneous <sup>4</sup>	3,420.5	2.7	<b>2,923.6</b>	2.8
Total farm products	<b>90,269.7</b>	70.5	<b>79,428.6</b>	74.6
<b>Supplies purchased:</b>				
Crop protectants	<b>3,929.1</b>	3.1	<b>2,829.2</b>	2.7
Feed	<b>7,367.3</b>	5.8	5,388.0	5.1
Fertilizer	<b>8,727.2</b>	6.8	<b>5,200.6</b>	4.9
Petroleum	<b>9,752.7</b>	7.6	<b>6,295.2</b>	5.9
Seed	879.0	0.7	658.5	0.6
Other supplies <sup>5</sup>	<b>4,072.9</b>	3.2	<b>3,281.3</b>	3.1
Total farm supplies	<b>34,728.3</b>	27.1	<b>23,652.6</b>	22.3
<b>Services provided:</b>				
Trucking, cotton ginning, storage, grinding, locker plants, misc. <sup>6</sup>	<b>3,100.4</b>	2.4	<b>3,100.4</b>	2.9
Total business	<b>128,098.5</b>	100.0	<b>106,181.6</b>	100.0

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

<sup>2</sup> Less than 0.05 percent.

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

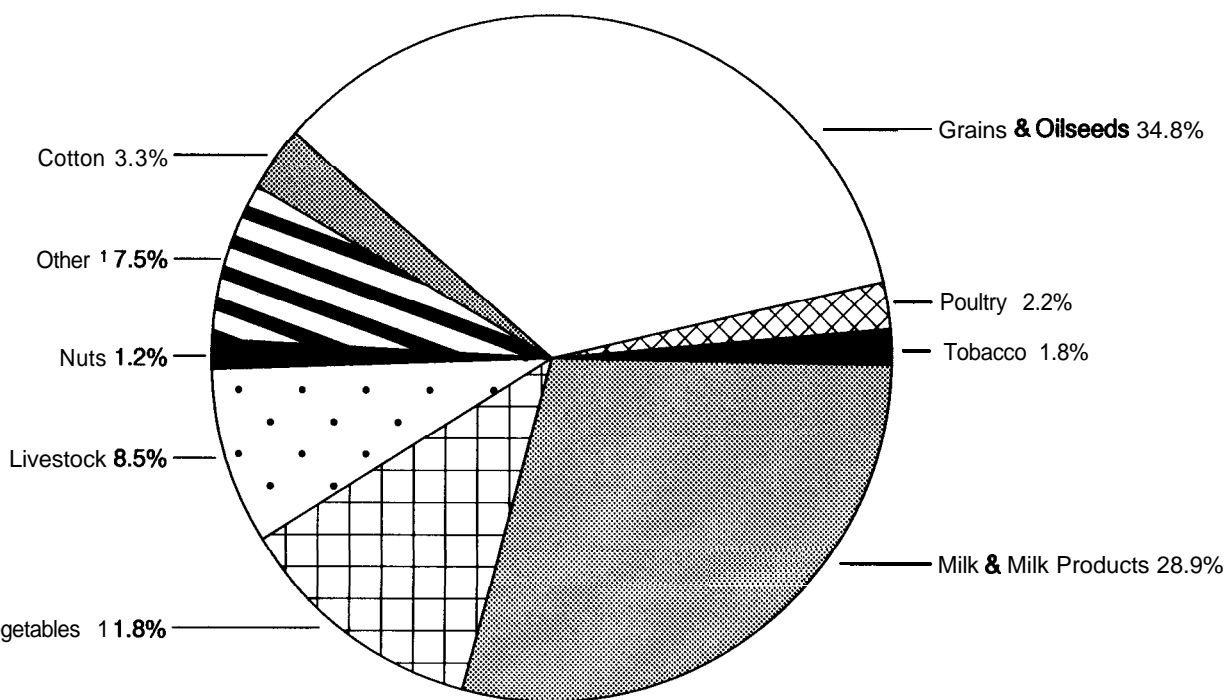
<sup>4</sup> Includes coffee, fish, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons. Also includes manufactured food products and resale items marketed by cooperatives.

<sup>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.



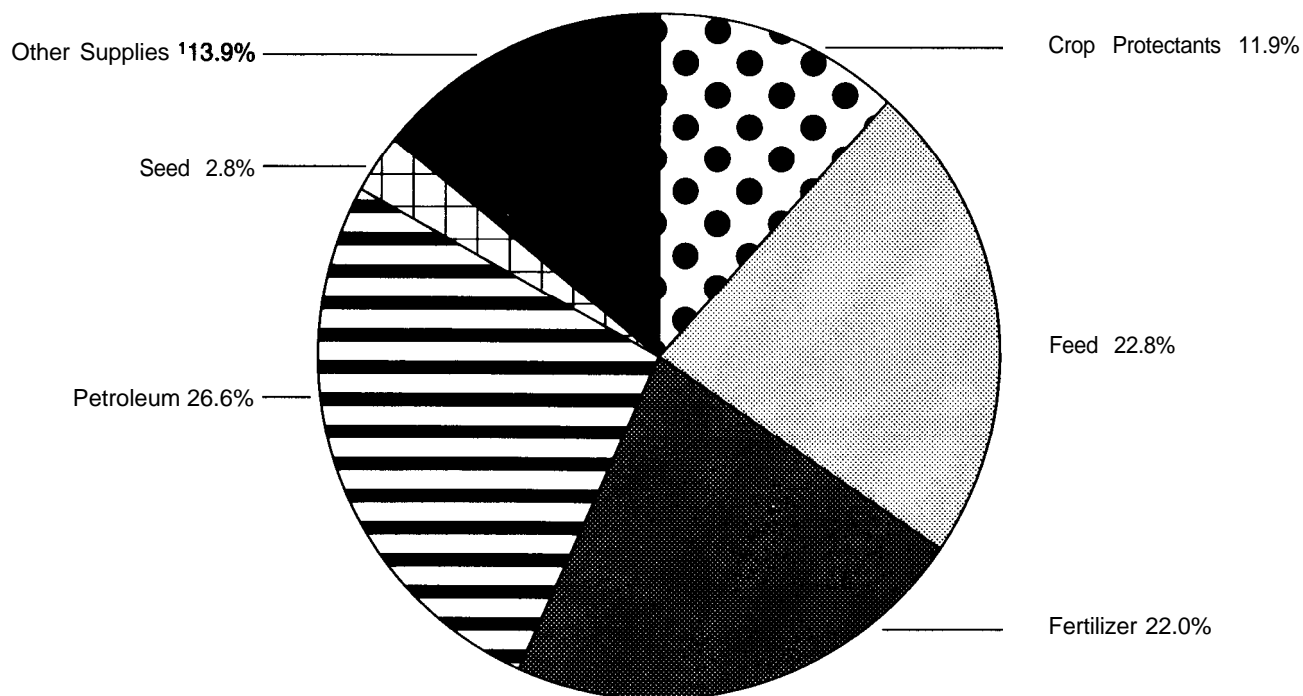
Figure 5— Relative Importance of Farm Products Marketed by Cooperatives, 1996



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

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

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>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.

Table 6—Cooperatives' net income, 1996 <sup>1</sup>

Principal products marketed and major function	co-ops <sup>2</sup>	Total net income	Income from own operations	Income from other coops <sup>3</sup>
	<i>Number</i>	<i>----- Million dollars -----</i>		
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

— = Less than .05 million.

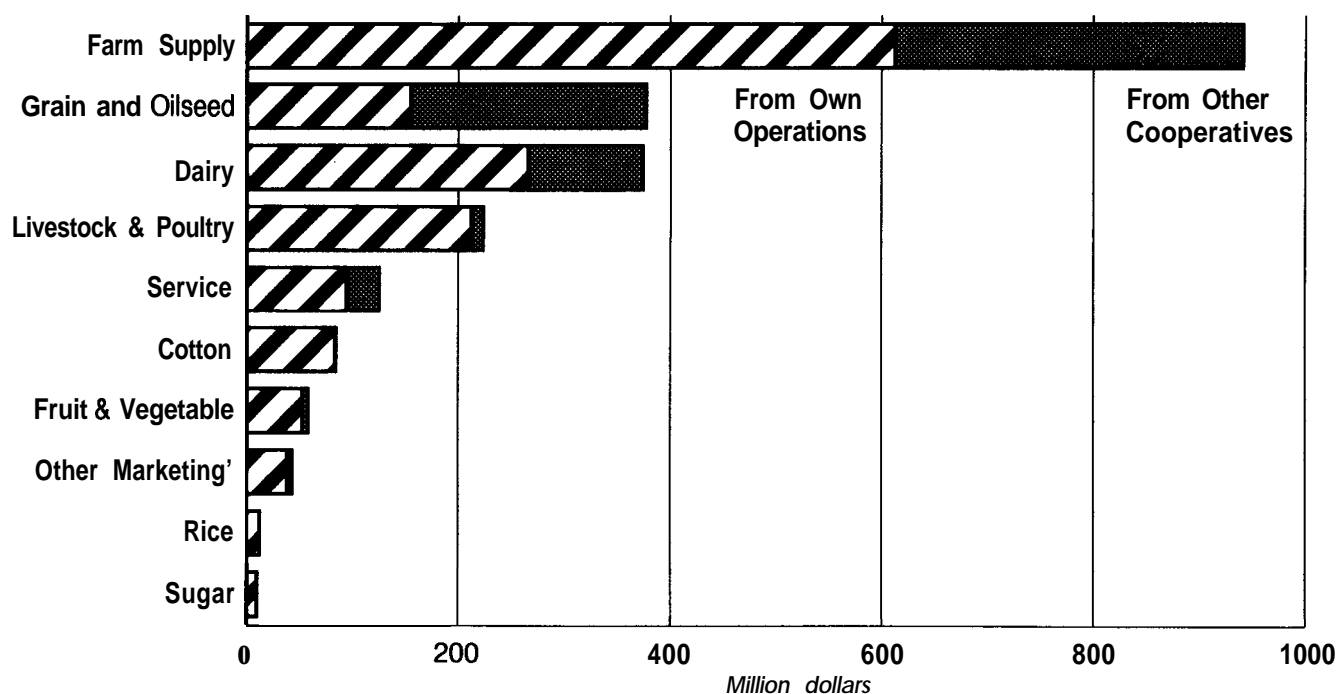
<sup>1</sup> Number of cooperatives includes those operating on a pooling rather than a net margin basis. Totals may not add due to rounding.

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

Table 7— Combined balance sheet data for farmer cooperatives, 1996 <sup>1</sup>

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

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

<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>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.**

Table 8— **Combined assets of farmer cooperatives, 1996** <sup>1</sup>

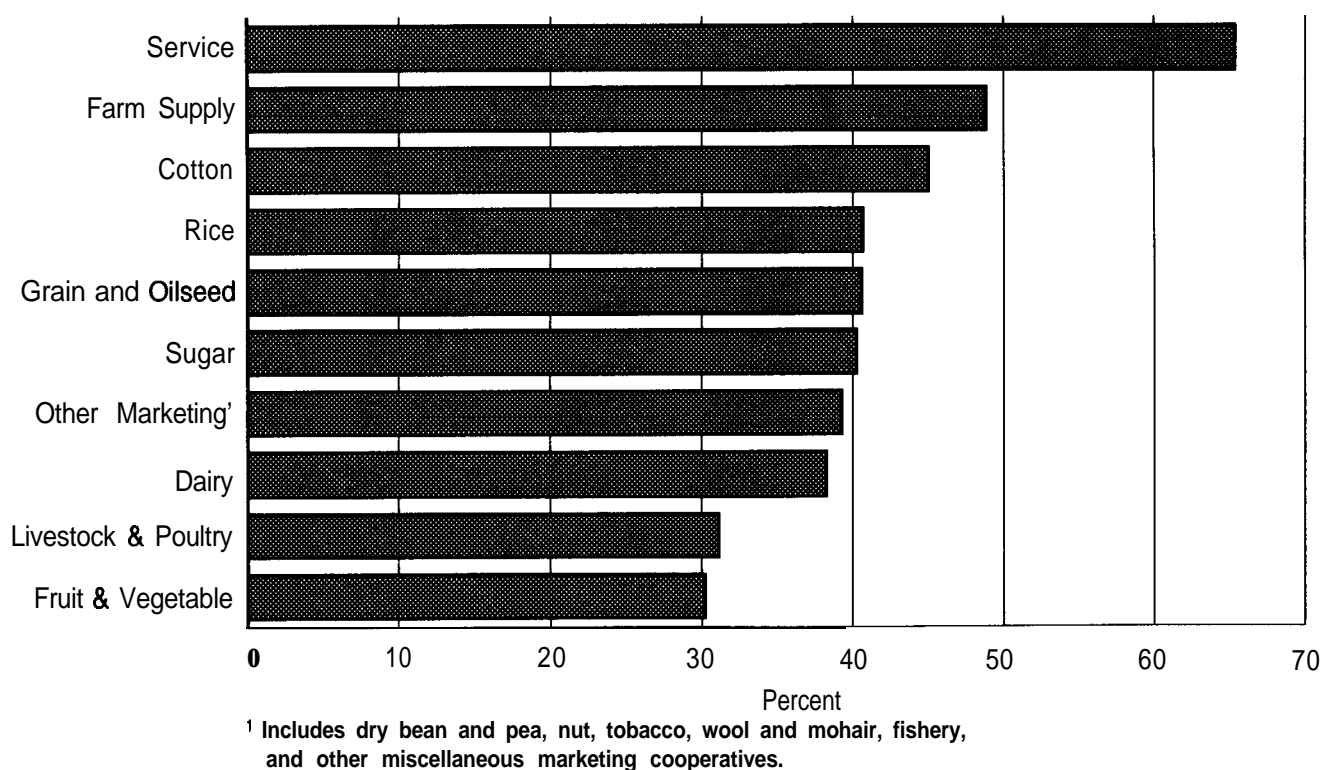
Principal products marketed and major function	co-ops <sup>2</sup>	Assets of own operations	Investments in other co-ops	Total assets	Investments in other co-ops as percent of total
	<i>Number</i>	<i>----- Million dollars -----</i>			<i>Percent</i>
<b>Products marketed:</b>					
<b>Cotton</b>	16	<b>776.5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

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

<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



## 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

Table 9— **Selected financial ratios of cooperatives, 1996** <sup>1</sup>

Type of <b>co-op</b> and assets group (mil. dol.)	Return on assets <sup>2</sup>	Net worth to assets <sup>3</sup>	Return on sales <sup>4</sup>	Sales to assets <sup>4</sup>	Current ratio <sup>5</sup>
	----- <i>Percent</i> -----			<i>Number</i> -----	
Dry 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	<b>.4</b>	4.9	—
<b>\$0.5 – .99</b>	3.5	64.4	<b>.6</b>	5.5	1.6
\$1 .0 – 2.49	7.8	53.6	1.1	7.0	1.3
\$2.5 – 24.99	8.9	40.7	1.3	6.8	1.1
\$25.0 – 99.99	8.0	36.2	1.6	5.2	1.2
\$100.0 – 499.99	4.6	35.8	1.0	4.7	1.2
<b>Fruit and vegetable</b>	<b>.5</b>	29.1	<b>.3</b>	1.8	1.3
Less than \$0.5	2.8	52.0	<b>.5</b>	5.6	1.9
<b>\$0.5 – .99</b>	7.0	70.1	2.0	3.6	2.4
\$1 .0 – 2.49	-4.0	61.4	<b>-.03</b>	4.7	2.1
\$2.5 – 24.99	6.0	40.3	1.8	3.3	1.0
\$25.0 – 99.99	<b>.3</b>	40.7	<b>.2</b>	1.9	1.2
\$100.0 – 499.99	1.7	27.6	<b>.9</b>	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	<b>-.2</b>	5.1	6.8
<b>0.5 – .99</b>	2.4	78.2	<b>.5</b>	5.4	2.8
\$1 .0 – 2.49	3.8	66.2	1.0	4.0	1.6
<b>\$2.5 – 24.99</b>	4.5	47.9	1.3	3.5	1.3
\$25.0 – 99.99	4.2	31.6	1.6	2.7	1.1
Livestock	<b>.9</b>	28.5	<b>.1</b>	11.9	1.2
Nut	<b>.3</b>	37.3	<b>.2</b>	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	<b>.9</b>	1.4	1.3
Tobacco	3.6	61.7	2.3	1.6	—
Miscellaneous marketing	8.2	43.8	2.2	3.6	1.9
Fishery	2.1	47.0	—	2.4	—
Farm supply	9.4	51.7	4.7	2.0	1.5
Less than \$0.5	1.5	75.3	<b>.4</b>	3.8	2.5
<b>\$0.5 – .99</b>	4.4	74.1	1.4	3.1	2.3
\$1 .0 – 2.49	6.6	71 .0	3.1	2.2	2.2
\$2.5 – 24.99	6.8	57.9	3.2	2.2	1.5
\$25.0 – 99.99	3.5	38.0	1.4	2.5	1.4
\$100.0 – 499.99	7.4	43.0	3.0	2.5	1.4
Service	9.5	67.2	9.0	1.0	1.8
Cotton gins	21.1	64.9	15.1	1.4	1.5

— = Data not available.

<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 five ratios. Extreme values not representative of the group were excluded.

<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>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>6</sup> Excludes 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 operations<sup>5</sup> 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.

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### III-Cooperative Trends, 1987-1996

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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

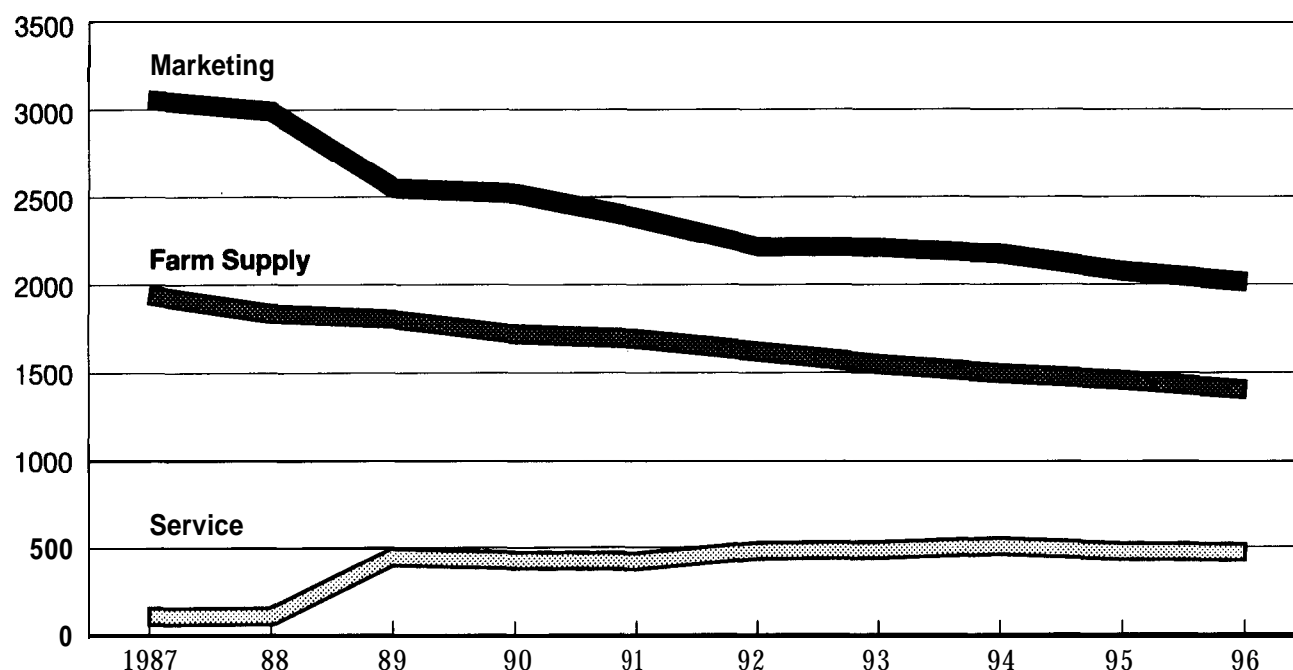
The **total number of marketing, farm supply, and related-service cooperatives declined from 5,109 in 1987 to 3,884 in 1996** (table 10 and figure 9). Marketing cooperatives declined from 3,054 to 2,012 and farm supply cooperatives from 1,941 to 1,403. Number of service cooperatives, **however, increased 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**

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<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.

Table 10— Number of farmer cooperatives, 1987-96

Period <sup>1</sup>	Marketing	Farm supply	Service	Total
<i>Number</i>				
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>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.

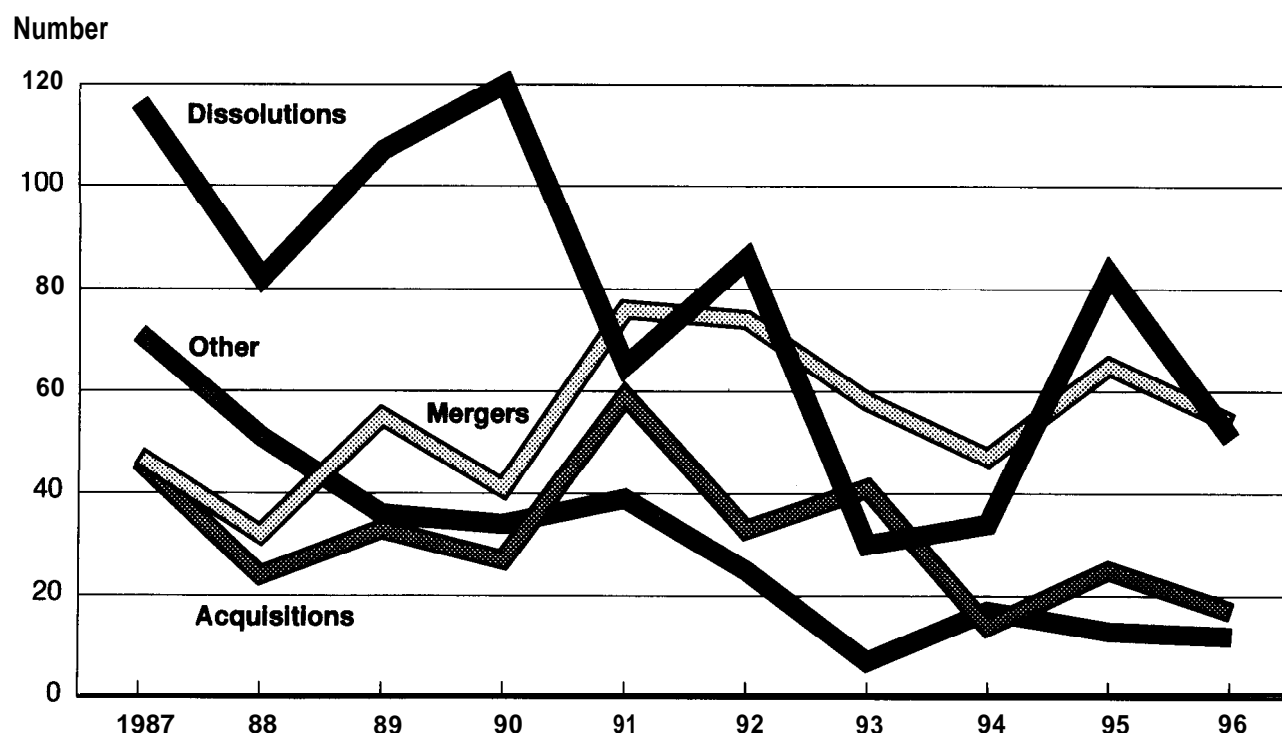
### Memberships

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 <sup>1</sup>	Marketing	Farm supply	Service	Total
<i>Number</i>				
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	<b>4,119</b>
1991	<b>1,542</b>	<b>2,025</b>	<b>191</b>	<b>4,059</b>
1992	<b>1,839</b>	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
1996	1,882	1,795	187	3,864

<sup>1</sup> For years before 1987, see *Cooperative Historical Statistics, CIR 1*, 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

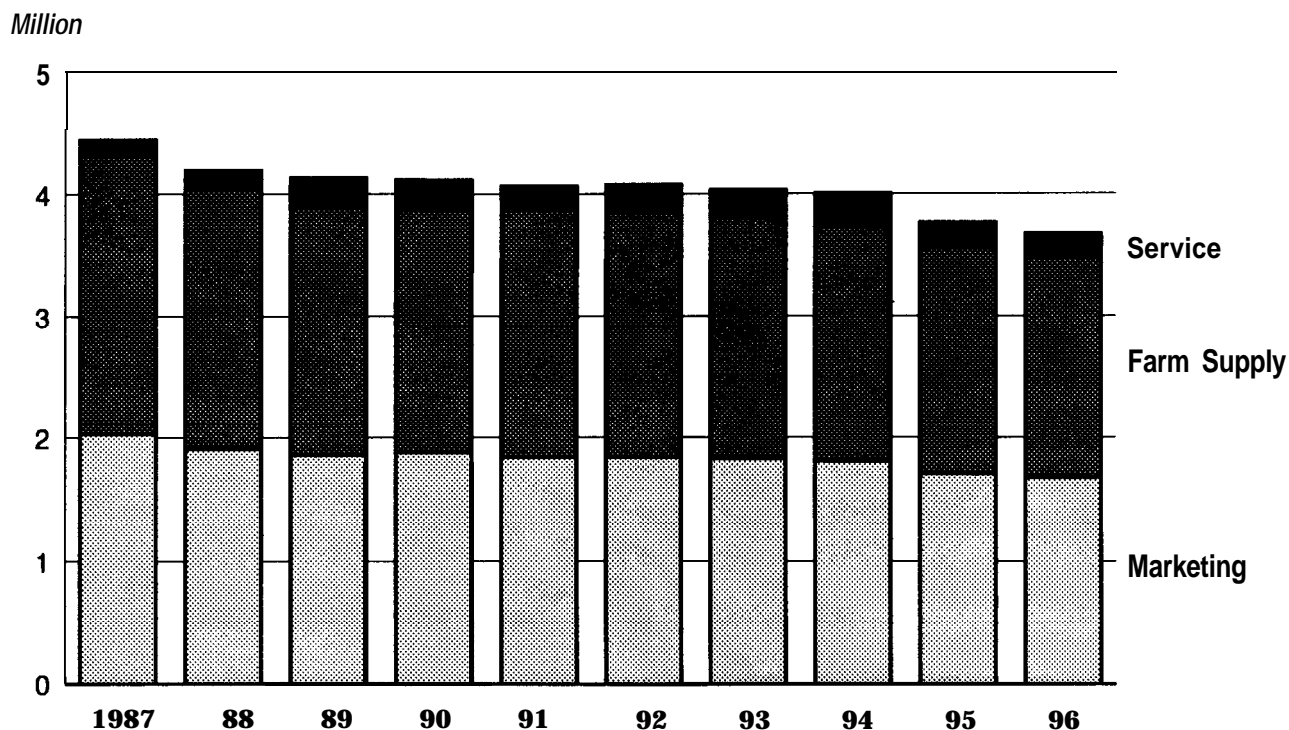


Table 12-- Number of farmer cooperatives and full-time employees, 1994-1996 <sup>1</sup>

Commodity	Cooperatives			Full-time Employees		
	1994	1995	1996	1994	1995 <sup>2</sup>	1996
<i>Number</i>						
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 & oilseeds	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	<b>5,946</b>	<b>5,704</b>
Total	4,174	4,006	3,884	175,019	175,399	174,795

<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**,<sup>6</sup> 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>**

Commodity or function	Net Volume		
	1985	1994	Change
	-- Million dollars --		Percent
<b>Products marketed:</b>			
Beans and peas (dry edible)	127.7	179.0	40.2
Cotton	<b>1,542.6</b>	<b>2,658.6</b>	72.3
Dairy	<b>16,548.3</b>	<b>22,934.5</b>	36.6
Fruits and vegetables	<b>6,113.6</b>	<b>9,392.0</b>	53.6
Grains and <b>oilseeds</b> <sup>2</sup>	<b>10,058.6</b>	<b>27,656.9</b>	175.0
Livestock	<b>3,158.4</b>	<b>6,725.2</b>	112.9
Nuts	941.0	951.6	1.1
Poultry	<b>1,146.2</b>	<b>1,754.1</b>	53.0
Rice	647.7	<b>699.6</b>	6.1
Sugar	<b>1,714.1</b>	<b>1,933.3</b>	12.6
Tobacco	607.7	<b>1,412.0</b>	132.4
Wool and mohair	22.6	7.9	-65.0
Other products	<b>1,327.1</b>	<sup>3</sup> <b>2,923.6</b>	120.3
Total farm products	<b>44,155.8</b>	<b>79,428.6</b>	<b>79.9</b>
<b>Supplies sold:</b>			
Crop protectants	<b>1,291.2</b>	<b>2,829.2</b>	119.1
Feed	<b>2,986.8</b>	5,366.0	60.4
Fertilizer	<b>2,731.8</b>	<b>5,200.6</b>	90.4
Petroleum	<b>4,175.1</b>	<b>6,295.2</b>	50.6
Seed	576.6	656.5	14.2
Other supplies	<b>2,509.4</b>	<b>3,281.3</b>	30.6
Total farm supplies	<b>14,270.8</b>	<b>23,652.6</b>	65.7
<b>Services provided:</b>			
Trucking, cotton ginning, storage, grinding, locker plants, misc	<b>1,891.2</b>	<b>3,100.4</b>	63.9
<b>Total business</b>	<b>60,317.7</b>	<b>106,181.6</b>	76.0

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

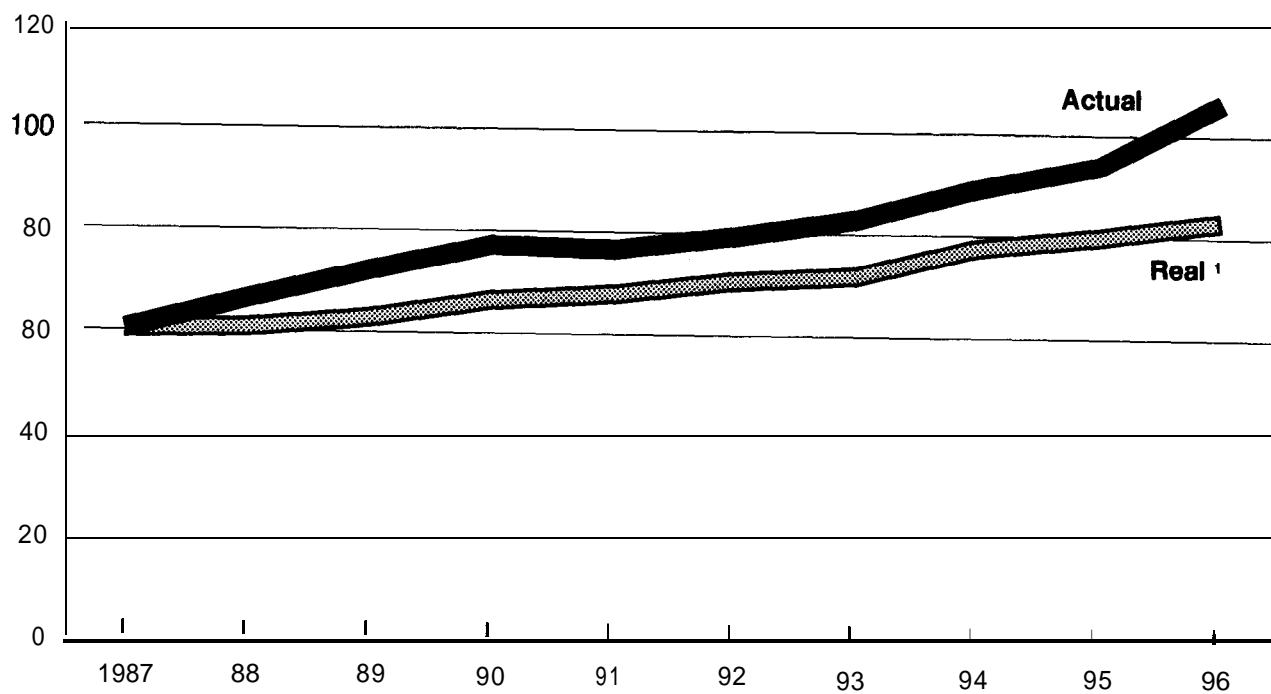
<sup>2</sup> Excludes cottonseed. Cottonseed sales were included with cotton. Cottonseed meal and oil sales were included with feed and other products, respectively.

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

<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).

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

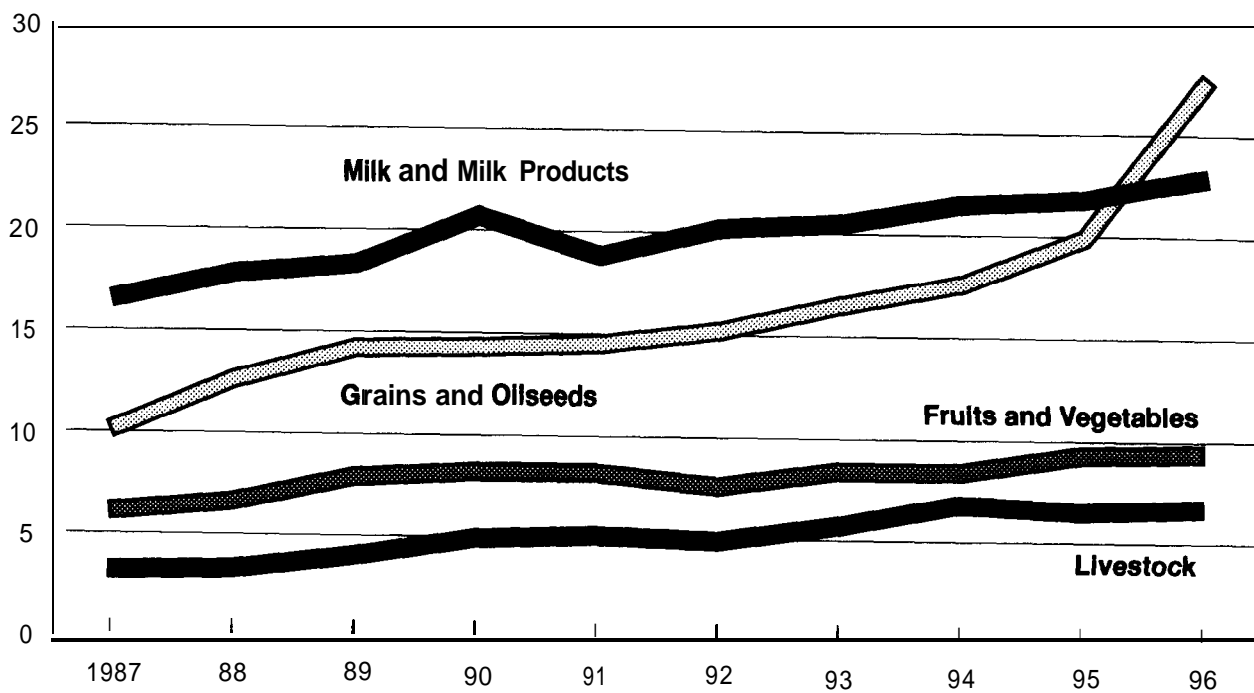
*Billion dollars*



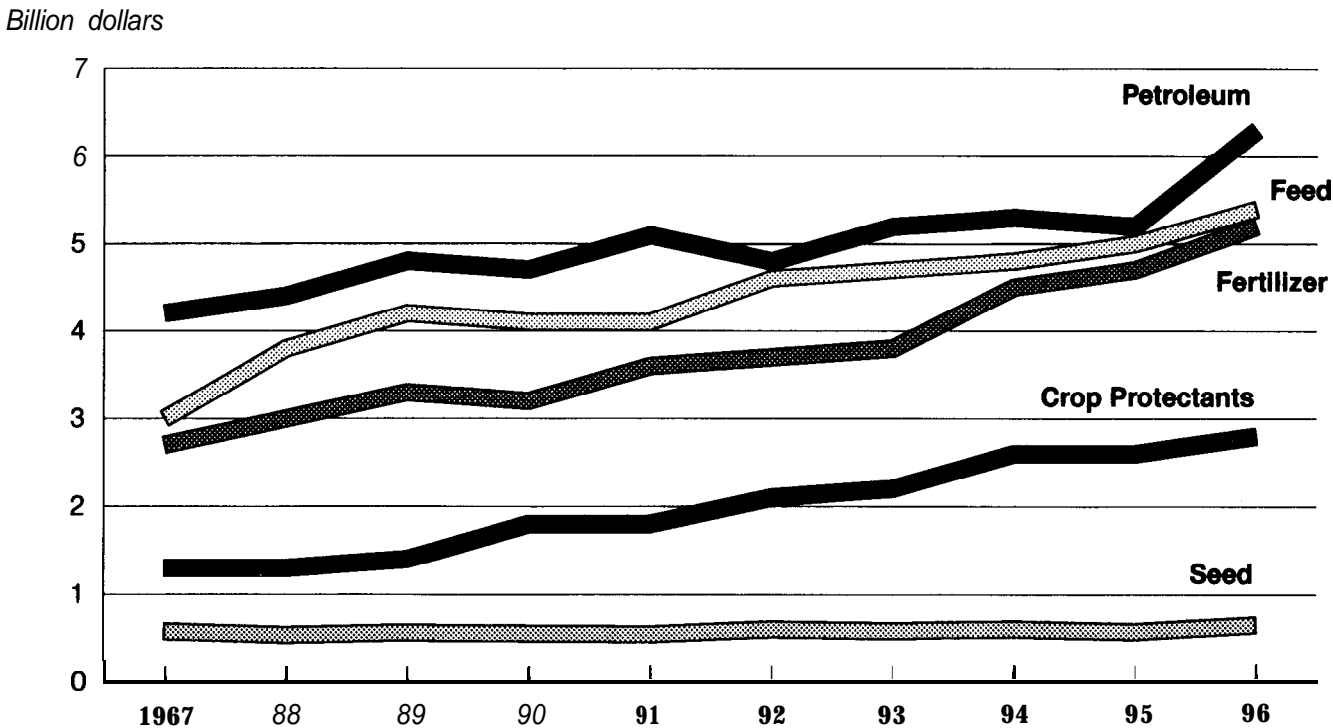
<sup>1</sup> Actual sales were adjusted for price change based on 1987 = 100.

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

*Billion dollars*



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



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, 1987–96<sup>1</sup>**

Period <sup>2</sup>	Gross volume				Net volume			
	Farm products	Farm supplies	Services <sup>3</sup>	Total	Farm products	Farm supplies	Services <sup>3</sup>	Total
Billion dollars								
<b>1987</b>	<b>50.3</b>	<b>22.5</b>	<b>1.9</b>	<b>74.7</b>	<b>44.2</b>	<b>14.3</b>	<b>1.9</b>	<b>60.3</b>
<b>1988</b>	<b>56.2</b>	<b>24.0</b>	<b>1.9</b>	<b>82.1</b>	<b>49.1</b>	<b>15.4</b>	<b>1.9</b>	<b>66.4</b>
<b>1989</b>	<b>60.3</b>	<b>25.8</b>	<b>2.0</b>	<b>88.1</b>	<b>53.2</b>	<b>16.9</b>	<b>2.0</b>	<b>72.1</b>
<b>1990</b>	<b>64.1</b>	<b>26.3</b>	<b>2.3</b>	<b>92.7</b>	<b>57.8</b>	<b>17.1</b>	<b>2.3</b>	<b>77.3</b>
<b>1991</b>	<b>61.4</b>	<b>26.8</b>	<b>2.5</b>	<b>90.8</b>	<b>56.2</b>	<b>17.9</b>	<b>2.5</b>	<b>76.6</b>
<b>1992</b>	<b>63.8</b>	<b>27.0</b>	<b>2.6</b>	<b>93.4</b>	<b>58.2</b>	<b>18.5</b>	<b>2.6</b>	<b>79.3</b>
<b>1993</b>	<b>66.8</b>	<b>28.2</b>	<b>2.7</b>	<b>97.7</b>	<b>60.9</b>	<b>19.2</b>	<b>2.7</b>	<b>82.9</b>
<b>1994</b>	<b>72.1</b>	<b>30.4</b>	<b>3.0</b>	<b>105.5</b>	<b>65.5</b>	<b>20.8</b>	<b>3.0</b>	<b>89.3</b>
<b>1995</b>	<b>77.9</b>	<b>31.0</b>	<b>3.3</b>	<b>112.2</b>	<b>89.3</b>	<b>21.2</b>	<b>3.3</b>	<b>93.8</b>
<b>1996</b>	<b>90.3</b>	<b>34.7</b>	<b>3.1</b>	<b>128.1</b>	<b>79.4</b>	<b>23.7</b>	<b>3.1</b>	<b>106.2</b>
Percent								
<b>1987</b>	<b>67.3</b>	<b>30.2</b>	<b>2.5</b>	<b>100</b>	<b>73.2</b>	<b>23.7</b>	<b>3.1</b>	<b>100</b>
<b>1988</b>	<b>68.4</b>	<b>29.2</b>	<b>2.4</b>	<b>100</b>	<b>73.9</b>	<b>23.2</b>	<b>2.9</b>	<b>100</b>
<b>1989</b>	<b>68.4</b>	<b>29.3</b>	<b>2.3</b>	<b>100</b>	<b>73.8</b>	<b>23.4</b>	<b>2.8</b>	<b>100</b>
<b>1990</b>	<b>69.1</b>	<b>28.4</b>	<b>2.5</b>	<b>100</b>	<b>74.9</b>	<b>22.1</b>	<b>3.0</b>	<b>100</b>
<b>1991</b>	<b>67.7</b>	<b>29.5</b>	<b>2.8</b>	<b>100</b>	<b>73.3</b>	<b>23.4</b>	<b>3.3</b>	<b>100</b>
<b>1992</b>	<b>68.3</b>	<b>28.9</b>	<b>2.8</b>	<b>100</b>	<b>73.4</b>	<b>23.4</b>	<b>3.2</b>	<b>100</b>
<b>1993</b>	<b>68.4</b>	<b>28.8</b>	<b>2.8</b>	<b>100</b>	<b>73.5</b>	<b>23.2</b>	<b>3.3</b>	<b>100</b>
<b>1994</b>	<b>68.4</b>	<b>28.8</b>	<b>2.6</b>	<b>100</b>	<b>73.4</b>	<b>23.3</b>	<b>3.3</b>	<b>100</b>
<b>1995</b>	<b>69.5</b>	<b>27.6</b>	<b>2.9</b>	<b>100</b>	<b>73.9</b>	<b>22.6</b>	<b>3.5</b>	<b>100</b>
<b>1996</b>	<b>70.5</b>	<b>27.1</b>	<b>2.4</b>	<b>100</b>	<b>74.8</b>	<b>22.3</b>	<b>2.9</b>	<b>100</b>

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

<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>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.

Table 15— **Cooperatives' net income, 1987-96<sup>1</sup>**

Year	From own operations	From other cooperatives <sup>2</sup>	Total
Million dollars			
<b>1987</b>	<b>1,423</b>	<b>63</b>	<b>1,466</b>
<b>1986</b>	<b>1,532</b>	<b>148</b>	<b>1,680</b>
<b>1989</b>	<b>1,543</b>	<b>308</b>	<b>1,851</b>
<b>1990</b>	<b>1,110</b>	<b>330</b>	<b>1,440</b>
<b>1991</b>	<b>1,189</b>	<b>381</b>	<b>1,570</b>
<b>1992</b>	<b>1,064</b>	<b>356</b>	<b>1,440</b>
<b>1993</b>	<b>1,041</b>	<b>318</b>	<b>1,358</b>
<b>1994</b>	<b>1,628</b>	<b>335</b>	<b>1,963</b>
<b>1995<sup>3</sup></b>	<b>1,820</b>	<b>544</b>	<b>2,363</b>
<b>1996</b>	<b>1,536</b>	<b>712</b>	<b>2,246</b>

<sup>1</sup> Totals may not add due to rounding. Excludes income from cooperative pooling operations.

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

<sup>3</sup> Revised.

## 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

Figure 15— Cooperatives' Net Income, 1987-98

Billion dollars

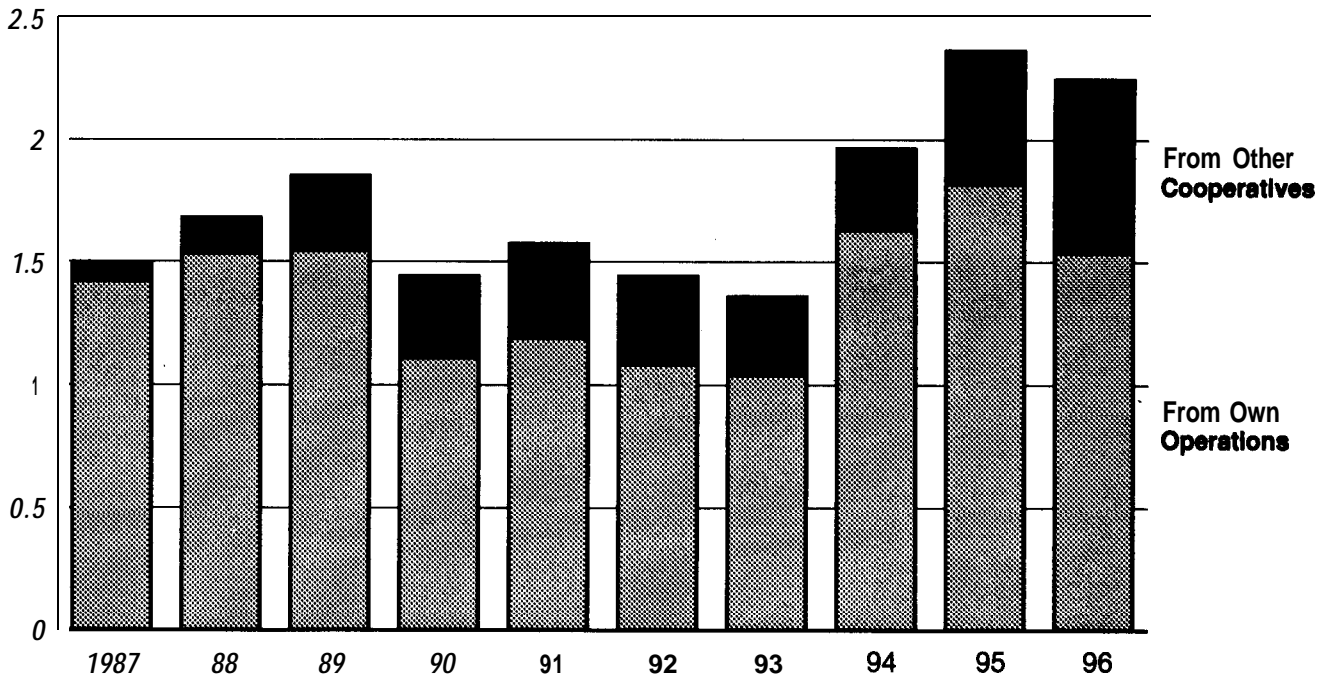


Figure 16— Cooperatives' Net Worth and Total Liabilities, 1987-98

Billion dollars

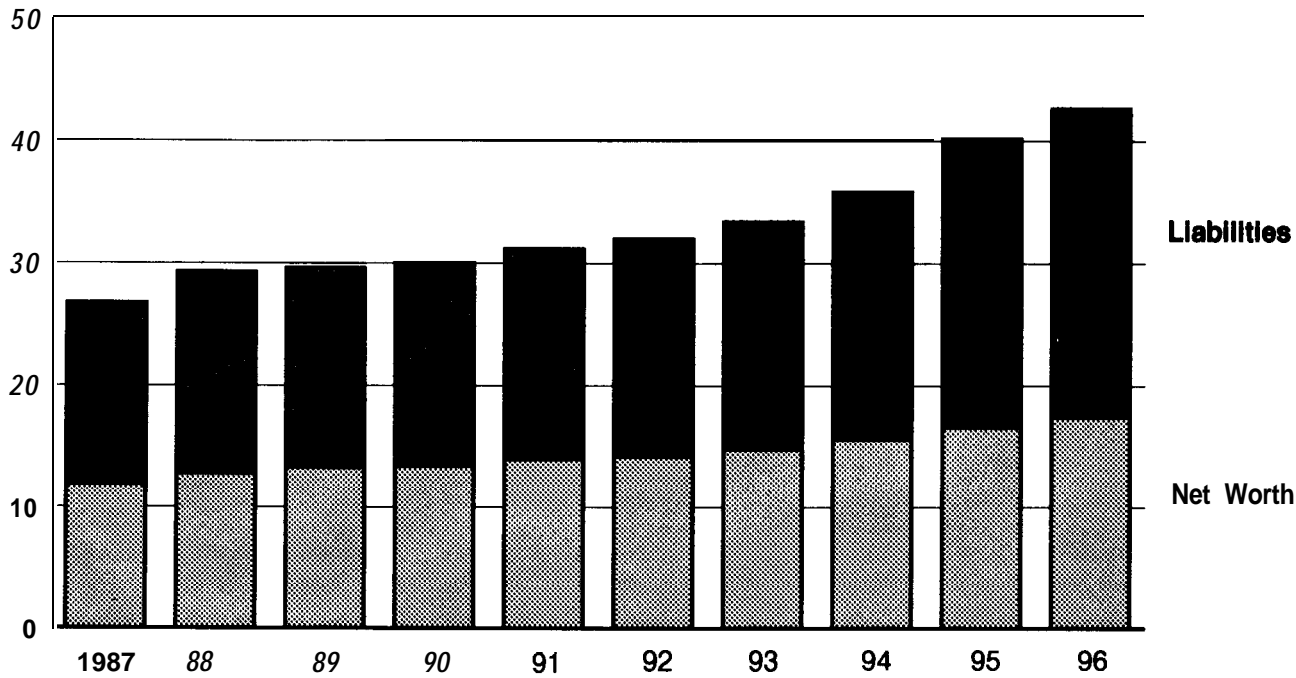


Table 16— **Combined balance sheet data for farmer cooperatives, 1987–96<sup>1</sup>**

Year	Assets from own operations	Investments in other co-ops	Total assets	Total liabilities	Net worth
<i>Million dollars</i>					
1987	24,823	2,820	27,843	14,819	12,824
1988	28,524	2,782	29,288	18,481	12,825
1989	27,078	2,571	29,849	18,337	13,313
1990	27,155	2,889	30,024	18,575	13,449
1991	28,788	2,501	31,288	17,227	14,040
1992	<b>29,572</b>	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
1998	39,193	3,395	42,588	25,195	17,392
<i>Percent of total assets</i>					
1987	<b>89.8</b>	10.2	100.0	53.8	48.4
1988	<b>90.8</b>	9.4	100.0	58.2	43.8
1989	<b>91.3</b>	8.7	100.0	55.1	44.9
1990	<b>90.4</b>	9.8	100.0	55.2	44.8
1991	<b>92.0</b>	8.0	100.0	55.1	44.9
1992	<b>92.4</b>	7.8	100.0	55.8	44.4
1993	<b>92.2</b>	7.8	100.0	55.7	44.3
1994	<b>92.6</b>	7.4	100.0	58.8	43.4
1995	<b>92.6</b>	7.4	100.0	58.7	41.3
1998	<b>92.0</b>	8.0	100.0	59.2	40.8

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

Table 17— **Farm Credit Association structure, January 1, 1997<sup>1</sup>**

District or bank affiliation	FLBA	FLCAs	PCA	ACB	ACA	FCB	BC
<i>Number</i>							
CoBank, ACB <sup>2</sup>				1	5		
<b>AgFirst</b> 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

= No bank affiliation.

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

<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.

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



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-

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 18- **Farm Credit System combined assets, net worth, and net income, 1992-96<sup>1</sup>**

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

<sup>1</sup> 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.

Table 19- **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<sup>1</sup>**

State	Cooperatives	Members (subscribers)	Revenue	State	Cooperatives	Members (subscribers)	Revenue
	<i>Number</i>	<i>1,000</i>	<i>Mil. dol.</i>		<i>Number</i>	<i>1,000</i>	<i>Mil. dol.</i>
Alabama	<b>3</b>	26	16	New Hampshire			
Alaska	<b>7</b>	59	66	New Jersey			
Arizona	<b>1</b>	4	6	New Mexico	5	28	<b>49</b>
Arkansas	<b>2</b>	6	8	New York			
California	—		—	North Carolina	9	138	75
Colorado	<b>5</b>	<b>9</b>	<b>9</b>	North Dakota	10	<b>59</b>	53
Delaware	—		—	Ohio	6	4	3
Florida	—		—	Oklahoma	1	9	14
Georgia	<b>4</b>	32	<b>21</b>	Oregon	9	46	35
Idaho	<b>2</b>	10	<b>7</b>	<b>Pennsylvania</b>			
Illinois	7	23	22	South Carolina	6	161	<b>99</b>
Indiana	8	34	25	South Dakota	13	50	45
Iowa	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	<b>49</b>	43	United States	236	1,457	1,201
Montana	7	56	64				
Nebraska	5	10	7				
Nevada			—				

— = None reported in the State.

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

## 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).

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

## Dairy Herd Improvement Associations

Dairy Herd Improvement Associations (DHIA) had 41,277 members (table 23). The DHIA 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

Table 21— **Number, participation, and level of activity of ruralelectriccooperatives**  
by State, December 31, 1996<sup>1</sup>

State	Cooperatives	Members (subscribers)	Revenue	State	Cooperatives	Members (subscribers)	Revenue
	<i>Number</i>	<i>1,000</i>	<i>Mil. dol.</i>		<i>Number</i>	<i>1,000</i>	<i>Mil. dol.</i>
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
Idaho	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	United States	804	11,084	24,441
Montana	23	93	142				
Nebraska	3	6	109				
Nevada	2	11	52				

<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
	<b>Number</b>	<b>1,000</b>	<b>Mil. dol.</b>		<b>Number</b>	<b>1,000</b>	<b>Mil. dol.</b>
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	<b>97</b>	537	Oklahoma	5	8	34
Idaho	9	14	33	Oregon	10	75	262
Illinois	13	60	208	Pennsylvania	21	31	68
Indiana	17	65	455	Rhode Island	3	55	446
Iowa	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>1</sup> Source: Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.)  
Totals may not add due to rounding.

<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 (herds)	cows tested	State	Members (herds)	cows tested
	<i>Number</i>	<i>1,000</i>		<i>Number</i>	<i>1,000</i>
Alabama	86	14.4	Montana	74	8.6
Alaska	2	( <sup>2</sup> )	Nebraska	352	34.2
Arizona	61	59.7	Nevada	27	9.1
Arkansas	114	10.8	New Hampshire	132	11.3
California	1,256	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	115	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	119	9.2
Mississippi	113	18.5	Wisconsin	10,628	685.7
Missouri	655	55.3	Wyoming	11	1.4
			United States <sup>3</sup>	41,277	4,516.7

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

<sup>2</sup> Fewer than 500.

<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

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
<b>BEANS AND PEAS, DRY EDIBLE</b>			<b>FRUITS AND VEGETABLES<sup>5</sup> (Continued)</b>		
California	5	834	<b>Maine</b>	<b>4</b>	<b>485</b>
<b>Other States</b>	<b>5</b>	<b>2,419</b>	Massachusetts	4	508
United States	10	3,253	Michigan	18	3,759
			Mississippi	4	283
<b>COTTON <sup>4</sup></b>			New Jersey	10	864
California	3	2,711	New York	10	1,120
Mississippi	3	3,315	North Carolina	3	56
Texas	4	24,300	Ohio	5	1,376
<b>Other States</b>	<b>6</b>	<b>11,490</b>	Oregon	12	1,637
Foreign		<b>68</b>	Pennsylvania	6	1,673
United States	16	41,884	Texas	5	337
			Vermont	3	108
<b>DAIRY</b>			Virginia	4	207
California	10	1,979	Washington	23	5,644
Hawaii	3	45	Other States	23	4,258
Illinois	4	2,423	Foreign <sup>6</sup>		<b>81</b>
Iowa	10	10,742	United States	281	49,112
Michigan	3	4,334			
Minnesota	48	17,519	<b>GRAINS AND OILSEEDS EXCLUDING COTTONSEED<sup>7</sup></b>		
New York	61	6,349	<b>Arkansas</b>	<b>3</b>	<b>1,362</b>
North Dakota	5	1,040	Colorado	16	10,029
Ohio	6	3,692	Idaho	6	1,633
Oregon	3	661	Illinois	125	94,706
<b>Pennsylvania</b>	<b>21</b>	<b>7,920</b>	Indiana	26	40,855
Virginia	4	1,219	Iowa	152	99,608
Wisconsin	35	32,769	Kansas	129	123,535
Other States	28	<b>26,621</b>	Michigan	12	6,351
United States	241	117,313	Minnesota	111	75,218
			Mississippi	6	2,332
<b>FRUITS AND VEGETABLES <sup>5</sup></b>			Missouri	21	30,040
Arizona	4	734	Montana	15	11,199
Arkansas	6	440	Nebraska	77	68,687
California	75	21,710	North Dakota	142	75,104
Colorado	10	421	Ohio	49	37,815
Florida	33	2,376	Oklahoma	48	36,201
Georgia	5	189	Oregon	3	3,562
Hawaii	10	512	South Dakota	77	55,119
Kentucky	4	334	Texas	38	18,311
			Washington	25	10,136
			Other States	9	3,732
			Foreign <sup>6</sup>		<b>327</b>
			United States	1,090	805,862

Continued

Appendix Table 1. **Number <sup>1</sup> Of co-ops and memberships <sup>2</sup> by major business activity and State, 1995<sup>3</sup>** (continued)

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
<b>LIVESTOCK <sup>5</sup></b>			<b>TOBACCO <sup>8</sup></b>		
Alabama	7	6,666	Kentucky	<b>5</b>	<b>70,889</b>
Hawaii	4	10,476	North Carolina	<b>8</b>	66,460
Idaho	3	6,939	Tennessee	<b>7</b>	74,510
Illinois	3	23,332	Virginia	<b>3</b>	14,708
Indiana	3	2,247	Other States	<b>3</b>	43,189
Kentucky	4	377	Foreign <sup>6</sup>	—	<u>277</u>
Michigan	4	29,504	United States	26	270,053
Mississippi	7	6,921			
Missouri	5	6,652	<b>WOOL AND MOHAIR</b>		
North Dakota	7	9,359	Idaho	6	232
Ohio	4	7,832	Montana	20	998
Virginia	6	1,312	North Dakota	6	247
West Virginia	3	606	Pennsylvania	17	2,230
Wisconsin	7	24,422	Utah	4	515
Other States	27	131,236	Virginia	6	674
Foreign <sup>6</sup>	—	<u>1,736</u>	West Virginia	10	767
United States	94	273,619	Wyoming	4	108
			Other States	<u>23</u>	<u>13,960</u>
<b>NUT <sup>8</sup></b>			United States	96	19,731
California	6	6,556			
Hawaii	3	547	<b>MISCELLANEOUS <sup>11</sup></b>		
Other States	<u>12</u>	<u>41,315</u>	Alaska	13	6,245
United States	21	46,416	California	11	1,352
			Florida	7	309
<b>POULTRY <sup>9</sup></b>			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>	—	<u>42</u>	Michigan	3	109
United States	16	26,552	Minnesota	7	5,113
			Mississippi	4	262
<b>RICE <sup>5</sup></b>			North Dakota	3	2,834
California	<b>5</b>	2,206	Oregon	3	152
Louisiana	<b>3</b>	166	Washington	5	461
Texas	<b>7</b>	1,233	Other States	<u>23</u>	<u>3,837</u>
Other States	<b>4</b>	12,266	United States	109	22,536
Foreign <sup>6</sup>	—	<u>1</u>			
United States	19	15,914	<b>TOTAL MARKETING</b>		
			Alabama	11	14,411
<b>SUGAR <sup>10</sup></b>			Alaska	13	6,246
Idaho	7	941	Arizona	5	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	8,164
Wyoming	4	466	Georgia	15	37,041
Other States	16	7,950	Hawaii	26	12,082
Foreign <sup>6</sup>	—	<u>2</u>	Idaho	26	12,289
United States	51	15,261	Illinois	136	120,837
			Indiana	29	49,277

Continued

Appendix Table 1— Number <sup>1</sup> of co-ops and memberships<sup>2</sup> by major business activity and State, 1995<sup>3</sup> (continued)

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
TOTAL MARKETING (Continued)			FARM SUPPLY (Continued)		
Iowa	167	<b>139, 509</b>	Kentucky	<b>29</b>	<b>123, 237</b>
Kansas	129	<b>129, 223</b>	Louisiana	21	<b>7, 237</b>
Kentucky	15	<b>74, 924</b>	Maryland	15	<b>52, 324</b>
Louisiana	20	5,543	Massachusetts	4	<b>3, 910</b>
Maine	20	1,746	Michigan	33	<b>16, 638</b>
Massachusetts	11	1,433	Minnesota	170	<b>147, 767</b>
New Mexico	4	1,539	Mississippi	38	<b>86, 391</b>
Michigan	49	47,858	Missouri	44	<b>135, 422</b>
Minnesota	177	155,439	Montana	39	<b>20, 820</b>
Mississippi	25	17,566	Nebraska	51	<b>38, 281</b>
Missouri	29	44,172	New York	12	<b>37, 144</b>
Montana	44	14,487	North Dakota	115	<b>51, 451</b>
Nebraska	66	82,513	Ohio	22	<b>14, 806</b>
New Jersey	15	3,101	Oklahoma	29	<b>21, 024</b>
New York	76	10,031	Oregon	15	<b>21, 319</b>
North Carolina	20	69,009	Pennsylvania	7	<b>33, 164</b>
North Dakota	170	91,897	South Dakota	72	<b>52, 034</b>
Ohio	70	67,083	Tennessee	70	<b>71, 110</b>
Oklahoma	53	50,996	Texas	53	<b>35, 480</b>
Oregon	24	9,984	Utah	8	<b>5, 322</b>
Pennsylvania	48	11,991	Virginia	38	<b>121, 687</b>
South Carolina	5	19,170	Washington	31	<b>13, 278</b>
South Dakota	79	63,682	West Virginia	14	<b>60, 190</b>
Tennessee	8	76,376	Wisconsin	129	<b>123, 088</b>
Texas	67	52,906	Wyoming	6	<b>4, 008</b>
Utah	13	5,626	Other States	13	<b>99, 471</b>
Vermont	7	2,156	Foreign <sup>6</sup>	—	<b>626</b>
Virginia	27	41,323	United States	1,458	<b>1,845,535</b>
Washington	57	17,725	SERVICE <sup>12</sup>		
West Virginia	14	3,558	Alabama	5	<b>180</b>
Wisconsin	47	58,981	Arizona	4	<b>922</b>
Wyoming	8	611	Arkansas	6	<b>1, 191</b>
Other States	9	3,867	California	48	<b>4, 217</b>
Foreign <sup>6</sup>	—	<b>2,534</b>	Hawaii	6	<b>107</b>
United States	2,074	<b>1,7 11,508</b>	Illinois	5	<b>311</b>
FARM SUPPLY			Iowa	3	<b>1, 690</b>
Alabama	48	41,347	Kansas	4	<b>144</b>
Arkansas	42	46,699	Louisiana	14	<b>2, 306</b>
California	20	13,915	Maryland	3	<b>104</b>
Colorado	22	19,694	Michigan	5	<b>6, 225</b>
Florida	6	8,332	Minnesota	42	<b>26, 035</b>
Georgia	<b>8</b>	2,737	Mississippi	26	<b>8, 346</b>
Hawaii	6	2,739	New Mexico	4	<b>1, 527</b>
Idaho	16	14,152	New York	5	<b>14, 755</b>
Illinois	69	114,091	North Carolina	6	<b>123</b>
Indiana	30	62,576	North Dakota	9	<b>496</b>
Iowa	87	<b>100, 149</b>	Ohio	7	<b>4, 993</b>
Kansas	26	<b>22, 165</b>	Oklahoma	26	<b>8, 757</b>

Continued



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

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
<b>SERVICE <sup>12</sup> (Continued)</b>			<b>TOTAL (Continued)</b>		
Pennsylvania	8	16,916	Utah	22	13,268
Texas	162	42,343	Vermont	7	7,454
Washington	4	5,676	Virginia	67	167,890
Wisconsin	49	32,450	Washington	92	36,681
Other States	23	30,434	West Virginia	28	63,748
United States	474	210,252	Wisconsin	225	214,519
<b>TOTAL</b>			Wyoming	14	4,619
Alabama	64	55,938	Other States	5	2,937
Alaska	13	6,246	Foreign <sup>6</sup>		3,160
Arizona	10	10,017	United States	4,006	3,767,295
Arkansas	64	63,032			
California	192	59,551			
Colorado	55	33,665			
Connecticut	4	3,310			
Delaware	3	29,072			
Florida	53	26,362			
Georgia	25	40,156			
Hawaii	40	14,928			
Idaho	43	26,441			
Illinois	210	235,239			
Indiana	61	111,952			
Iowa	257	24 1,348			
Kansas	159	151,532			
Kentucky	45	203,061			
Louisiana	55	15,086			
Maine	22	9,527			
Maryland	20	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	19	8,220			
New Mexico	9	3,330			
New York	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			

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

<sup>2</sup> Includes 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>7</sup> Excludes soybean meal and oil.

<sup>8</sup> Membership fluctuates annually depending upon producer participation in price stabilization programs.

<sup>9</sup> 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**.

<sup>12</sup> Cooperatives providing services related to marketing or purchasing activities. Major services provided are cotton ginning, truddng, storing, grinding, drying, and **artificial** insemination.

Appendix Table 2— Cooperative business volume <sup>1</sup> by commodity and State, 1995<sup>2</sup>

State	Business volume		State	Business volume	
	Gross	Net		Gross	Net
1,000 dollars			1,000 dollars		
<b>PRODUCTS MARKETED:</b>			<b>FRUITS AND VEGETABLES (Continued)</b>		
<b>BEANS AND PEAS, DRY EDIBLE</b>			Mississippi	13,657	13,262
California	120,504	117,737	New Jersey	211,438	211,062
Other States	90,717	90,718	New York	298,802	293,002
United States <sup>3</sup>	211,221	208,455	North Carolina	21,003	19,447
<b>COTTON</b>			Ohio	6,953	6,953
California	635,298	587,321	Oregon	575,884	575,647
Mississippi	421,460	418,634	Pennsylvania	289,416	279,438
Texas	<b>1,057,201</b>	<b>1,006,424</b>	Texas	44,487	16,301
Other States	788,926	786,704	Vermont	9,427	9,427
United States	<b>2,902,885</b>	<b>2,799,083</b>	Virginia	13,754	13,145
<b>DAIRY</b>			Washington	818,620	771,572
California	<b>2,791,553</b>	<b>2,662,609</b>	Other States	<b>1,155,054</b>	<b>1,122,360</b>
Hawaii	21,433	21,433	Foreign <sup>4</sup>	19,629	18,826
Illinois	931,340	811,771	United States	<b>9,947,892</b>	<b>9,271,953</b>
Iowa	930,828	862,796	<b>GRAINS AND OILSEEDS EXCLUDING COTTONSEED</b>		
Michigan	652,961	624,033	Arkansas	187,296	186,213
Minnesota	<b>2,052,404</b>	<b>1,788,794</b>	Colorado	280,851	249,146
New York	<b>1,621,652</b>	<b>1,228,835</b>	Idaho	43,315	43,315
North Dakota	173,157	157,713	Illinois	<b>2,076,317</b>	<b>2,068,292</b>
Ohio	651,465	623,028	Indiana	<b>1,301,046</b>	967,560
Oregon	256,390	241,765	Iowa	<b>3,803,565</b>	<b>2,825,505</b>
Pennsylvania	<b>1,280,285</b>	965,356	Kansas	<b>2,073,069</b>	<b>1,773,049</b>
Virginia	113,643	111,397	Michigan	412,655	270,923
Wisconsin	<b>4,677,481</b>	<b>4,383,774</b>	Minnesota	<b>3,219,309</b>	<b>2,377,433</b>
Other States	<b>7,513,893</b>	<b>7,300,505</b>	Mississippi	86,430	80,775
United States	<b>23,668,484</b>	<b>21,783,809</b>	Missouri	820,718	570,775
<b>FRUITS AND VEGETABLES</b>			Montana	453,804	284,345
Arizona	159,451	139,156	Nebraska	<b>2,012,738</b>	<b>1,737,404</b>
Arkansas	1,355	1,355	North Dakota	<b>2,256,260</b>	<b>1,831,526</b>
California	3846,187	<b>3,469,272</b>	Ohio	<b>1,321,884</b>	988,399
Colorado	27,055	27,055	Oklahoma	615,396	447,918
Florida	<b>1,338,037</b>	<b>1,281,838</b>	Oregon	150,380	150,150
Georgia	24,359	20,402	South Dakota	1548,192	<b>1,198,988</b>
Hawaii	25,446	25,446	Texas	<b>1,070,349</b>	644,652
Kentucky	7,894	7,894	Washington	845,660	631,773
Maine	33,683	33,683	Other States	570,750	510,555
Massachusetts	504,103	504,103	Foreign <sup>4</sup>	47,655	25,734
Michigan	502,198	411,307	United States	<b>25,197,639</b>	<b>19,864,430</b>

Continued

Appendix Table 2— Cooperative **business volume** <sup>1</sup> by commodity and State, **1995** <sup>2</sup> (continued)

State	Business volume		State	Business volume	
	Gross	Net		Gross	Net
<i>1,000 dollars</i>			<i>1,000 dollars</i>		
<b>LIVESTOCK</b>			<b>SUGAR</b>		
Alabama	69,804	69,804	Idaho	139,942	139,942
Hawaii	4,086	4,086	Louisiana	260,472	260,472
Idaho	64,206	62,336	Michigan	113,261	113,261
Illinois	524,734	524,734	Minnesota	590,726	522,467
Indiana	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 <sup>4</sup>	298	298
Missouri	244,316	244,316			
North Dakota	91,244	84,119	United States	1,966,818	1,868,603
Ohio	304,856	304,858			
Virginia	31,777	31,777	<b>TOBACCO</b>		
West Virginia	3,261	3,261	Kentucky	528,550	528,550
Wisconsin	555,291	548,166	North Carolina	231,834	231,834
Other States	3,711,482	3,669,258	Tennessee	292,463	292,463
Foreign <sup>4</sup>	15,549	15,549	Virginia	24,683	24,683
			Other States	83,387	83,387
United States	6,532,089	6,473,743	United States	1,160,917	1,160,917
<b>NUTS</b>			<b>WOOL AND MOHAIR</b>		
California	618,904	618,904	Idaho	116	116
Hawaii	24,056	24,056	Montana	1,111	1,111
Other States	222,640	222,640	North Dakota	95	95
United States	865,600	865,600	Pennsylvania	264	264
<b>POULTRY</b> <sup>5</sup>			Utah	430	430
California	41,882	41,882	Virginia	124	124
Utah	214,707	78,504	West Virginia	168	168
Other States	1,618,698	1,471,144	Wyoming	82	82
United States	1,875,287	1,591,530	Other States	20,014	13,031
<b>RICE</b>			United States	22,404	15,421
California	230,729	229,439	<b>MISCELLANEOUS MARKETING</b> <sup>6</sup>		
Louisiana	25,954	25,954	Alaska	13,040	13,040
Texas	58,151	58,151	California	247,692	247,848
Other States	585,998	585,998	Florida	18,766	18,677
United States	900,832	899,542	Georgia	17,145	17,145
			Hawaii	13,792	13,792
			Maine	23,056	23,056
			Massachusetts	2,345	2,345
			Michigan	65,414	64,680
			Minnesota	476,466	391,143

Continued

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

State	Business volume		State	Business volume	
	Gross	Net		Gross	Net
7,000 dollars			1,000 dollars		
<b>MISCELLANEOUS MARKETING<sup>6</sup></b> (continued)			<b>TOTAL FARM PRODUCTS MARKETING</b> (continued)		
Mississippi	163,493	159,451	Tennessee	392,574	391,217
North Dakota	59,320	45,666	Texas	<b>3,175,371</b>	<b>2,620,836</b>
Oregon	61,097	61,097	Utah	523,774	380,434
Washington	199,037	198,993	Vermont	390,774	382,984
Other States	<b>1,116,214</b>	<b>1,049,521</b>	Virginia	254,445	249,550
Foreign <sup>4</sup>	216,993	211,305	Washington	<b>2,732,649</b>	<b>2,420,036</b>
United States	<b>2,694,070</b>	<b>2,517,761</b>	West Virginia	58,382	55,373
			Wisconsin	<b>5,814,239</b>	<b>5,510,694</b>
			Wyoming	47,044	47,044
TOTAL FARM PRODUCTS MARKETING			Other States	332,124	315,697
Alabama	<b>1,017,012</b>	970,180	Foreign <sup>4</sup>	300,124	271,712
Alaska	13,040	13,040	United States	<b>77,946,138</b>	<b>69,320,846</b>
Arizona	704,420	666,601			
Arkansas	<b>1,172,449</b>	<b>1,164,760</b>	<b>FARM SUPPLIES PROVIDED:</b>		
California	<b>8,705,309</b>	<b>8,146,437</b>	<b>CROP PROTECTANTS</b>		
Colorado	614,683	581,642	Alabama	90,610	45,871
Florida	<b>2,227,104</b>	<b>2,165,583</b>	Arkansas	161,261	84,517
Georgia	774,767	767,566	California	23,138	19,115
Hawaii	92,606	92,606	Colorado	41,308	26,171
Idaho	856,545	849,727	Florida	16,200	15,970
Illinois	<b>3,563,710</b>	<b>3,436,117</b>	Georgia	59,895	56,922
Indiana	<b>1,903,130</b>	<b>1,530,556</b>	Hawaii	1,671	1,671
Iowa	<b>6,586,714</b>	<b>5,522,612</b>	Idaho	34,049	16,812
Kansas	<b>2,782,406</b>	<b>2,482,386</b>	Illinois	398,906	268,829
Kentucky	813,399	783,664	Indiana	235,406	164,213
Louisiana	454,128	450,447	Iowa	463,370	369,544
Maine	76,014	75,557	Kansas	136,721	92,939
Massachusetts	909,132	904,852	Kentucky	44,466	40,096
Michigan	<b>2,472,931</b>	<b>2,210,646</b>	Louisiana	64,795	33,279
Minnesota	<b>6,765,968</b>	<b>5,386,882</b>	Maryland	20,813	18,783
Mississippi	854,029	841,110	Massachusetts	2,433	2,346
Missouri	<b>2,220,784</b>	<b>1,956,533</b>	Michigan	40,721	29,633
Montana	596,106	426,647	Minnesota	340,786	286,763
Nebraska	<b>3,579,743</b>	<b>3,281,694</b>	Mississippi	58,812	57,892
New Jersey	256,869	252,541	Missouri	86,274	67,803
New Mexico	163,275	162,784	Montana	46,680	30,907
New York	<b>2,003,628</b>	<b>1,605,012</b>	Nebraska	191,704	152,777
North Carolina	531,132	525,277	New York	16,409	13,411
North Dakota	<b>2,902,811</b>	<b>2,411,840</b>	North Dakota	140,348	106,599
Ohio	<b>2,433,507</b>	<b>2,064,600</b>	Ohio	94,079	82,396
Oklahoma	<b>1,006,510</b>	836,959	Oklahoma	27,256	19,544
Oregon	<b>1,159,840</b>	<b>1,120,445</b>	Oregon	37,742	26,900
Pennsylvania	<b>1,680,201</b>	<b>1,355,293</b>	Pennsylvania	12,576	12,041
South Carolina	61,930	61,558	South Dakota	132,044	102,895
South Dakota	<b>1,968,806</b>	<b>1,571,116</b>			

Continued

Appendix Table 2— Cooperative business volume<sup>1</sup> by commodity and state, 1995<sup>2</sup> (continued)

State	Business volume		State	Business volume	
	Gross	Net		Gross	Net
<i>1,000 dollars</i>			<i>1,000 dollars</i>		
CROP PROTECTANTS (Continued)			FEED (Continued)		
Tennessee	123,169	68,002	Virginia	102,796	<b>88,793</b>
Texas	76,139	57,035	Washington	87,398	33,320
Utah	20,316	9,928	West Virginia	16,112	13,721
Virginia	22,290	18,857	Wisconsin	397,122	268,351
Washington	51,958	37,213	Wyoming	1,607	1,807
West Virginia	3,165	2,861	Other States	465,634	427,750
Wisconsin	169,996	117,440	Foreign <sup>4</sup>	133,127	61,953
Wyoming	15,357	4,969			
Other States	75,428	67,434	United States	<b>6,639,436</b>	<b>5,017,012</b>
Foreign <sup>4</sup>	33,816	3,307			
United States	<b>3,612,107</b>	<b>2,627,685</b>	FERTILIZER		
			Alabama	126,082	69,972
FEED			Arkansas	168,321	90,385
Alabama	188,607	171,139	California	77,151	75,906
Arkansas	152,189	94,331	Colorado	114,665	80,437
California	166,732	131,843	Florida	165,604	41,809
Colorado	47,593	36,481	Georgia	81,403	74,541
Florida	84,930	83,125	Hawaii	20,878	2,402
Georgia	247,388	245,663	Idaho	59,784	32,329
Hawaii	17,428	5,798	Illinois	794,485	414,224
Idaho	40,105	21,789	Indiana	555,430	264,877
Illinois	275,550	202,332	Iowa	800,698	491,633
Indiana	285,714	140,275	Kansas	495,982	339,456
Iowa	<b>1,020,081</b>	778,024	Kentucky	147,336	98,983
Kansas	262,819	177,338	Louisiana	52,212	28,417
Kentucky	57,694	47,825	Maryland	31,673	28,944
Louisiana	49,836	30,736	Massachusetts	4,354	4,193
Maryland	40,711	36,397	Michigan	69,044	46,447
Massachusetts	32,898	31,623	Minnesota	613,307	379,525
Michigan	64,578	60,800	Mississippi	69,878	65,956
Minnesota	617,285	463,391	Missouri	370,395	226,764
Mississippi	75,218	57,462	Montana	91,067	61,022
Missouri	233,188	188,749	Nebraska	386,904	288,337
Montana	23,279	17,714	New York	24,979	24,097
Nebraska	225,110	157,884	North Dakota	348,456	208,504
New York	138,048	123,817	Ohio	188,759	129,446
North Dakota	59,887	40,797	Oklahoma	147,770	104,914
Ohio	131,299	128,663	Oregon	63,669	42,270
Oklahoma	81,050	59,974	Pennsylvania	22,324	21,549
Oregon	108,220	42,512	South Dakota	227,186	145,290
Pennsylvania	117,973	110,069	Tennessee	237,085	125,032
South Dakota	151,959	110,603	Texas	243,092	158,113
Tennessee	202,128	118,521	Utah	31,280	20,160
Texas	157,238	127,809	Virginia	67,174	61,034
Utah	78,705	77,833	Washington	46,572	30,394
			West Virginia	9,279	8,462

Continued

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

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

Continued

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

State	Business volume		State	Business volume	
	Gross	Net		Gross	Net
1,000 <i>dollars</i>			1,000 <i>dollars</i>		
<b>SEED</b> (continued)			<b>MISCELLANEOUS SUPPLIES <sup>7</sup></b> (continued)		
Wisconsin	33,358	<b>23,729</b>	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 <sup>4</sup>	<u>4,289</u>	<u>912</u>	Foreign <sup>4</sup>	<u>30,231</u>	<u>7,873</u>
United States	790,984	582,702	United States	<b>3,876,369</b>	<b>3,082,977</b>
<b>MISCELLANEOUS SUPPLIES<sup>1</sup></b>			<b>TOTAL FARM SUPPLIES</b>		
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
Idaho	41,110	35,895	Idaho	309,816	174,467
Illinois	149,049	80,274	Illinois	<b>2,312,037</b>	<b>1,383,228</b>
Indiana	88,593	48,692	Indiana	<b>1,557,128</b>	881,757
Iowa	200,089	148,125	Iowa	<b>3,250,110</b>	<b>2,252,561</b>
Kansas	114,831	80,243	Kansas	<b>1,905,403</b>	<b>1,017,180</b>
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	<b>2,424,623</b>	<b>1,824,412</b>
Mississippi	45,298	45,296	Mississippi	283,761	259,901
Missouri	107,928	67,209	Missouri	<b>1,359,271</b>	934,768
Montana	49,402	45,445	Montana	390,599	288,165
Nebraska	93,557	75,734	Nebraska	<b>1,311,455</b>	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			

Continued

Appendix **Table 2— Cooperative business volume <sup>1</sup> by commodity and State, 1995<sup>2</sup>** (continued)

State	Business volume		State	Business volume	
	Gross	Net		Gross	Net
<i>1,000 dollars</i>			<i>1,000 dollars</i>		
<b>TOTAL FARM SUPPLIES</b> (continued)			<b>TOTAL:</b> (continued)		
West Virginia	87,828	78,919	Hawaii	152,372	118,743
Wisconsin	<b>1,643,265</b>	<b>1,200,910</b>	Idaho	<b>1,174,433</b>	<b>1,032,266</b>
Wyoming	175,384	99,336	Illinois	<b>6,077,801</b>	<b>5,021,399</b>
Other States	<b>1,184,118</b>	<b>1,063,453</b>	Indiana	<b>3,539,946</b>	<b>2,492,001</b>
Foreign <sup>4</sup>	<u>872,750</u>	<u>231,102</u>	Iowa	<b>10,056,777</b>	<b>7,995,126</b>
United States	<b>30,964,547</b>	<b>21,213,384</b>	Kansas	<b>4,795,699</b>	<b>3,607,457</b>
			Kentucky	<b>1,247,313</b>	<b>1,125,812</b>
<b>SERVICES PROVIDED: <sup>8</sup></b>			Louisiana	733,316	623,311
Alabama	15,280	15,260	Maine	235,597	226,460
Arizona	28,633	28,633	Maryland	427,835	396,489
Arkansas	125,359	125,359	Massachusetts	<b>1,008,168</b>	997,220
California	399,299	399,299	Michigan	<b>2,967,013</b>	<b>2,578,034</b>
Hawaii	10,355	10,355	Minnesota	<b>9,401,735</b>	<b>7,422,439</b>
Illinois	202,054	202,054	Mississippi	<b>1,193,004</b>	<b>1,156,226</b>
Iowa	219,954	219,954	Missouri	<b>3,780,417</b>	<b>3,091,663</b>
Kansas	107,691	107,891	Montana	993,521	721,629
Louisiana	21,839	21,839	Nebraska	<b>5,006,270</b>	<b>4,355,176</b>
Maryland	3,895	3,895	New Jersey	392,934	373,128
Michigan	72,066	72,066	New Mexico	179,428	178,066
Minnesota	211,144	211,144	New York	<b>2,733,844</b>	<b>2,255,214</b>
Mississippi	55,214	55,214	North Carolina	802,832	760,505
New Mexico	3,683	3,663	North Dakota	<b>3,934,263</b>	<b>3,171,612</b>
New York	201,946	201,946	Ohio	<b>3,156,330</b>	<b>2,674,366</b>
North Carolina	20,916	20,916	Oklahoma	<b>1,607,982</b>	<b>1,185,081</b>
North Dakota	46,506	46,506	Oregon	<b>1,683,264</b>	<b>1,493,302</b>
Ohio	90,588	90,588	<b>Pennsylvania</b>	<b>2,134,216</b>	<b>1,769,454</b>
Oklahoma	37,192	37,192	South Carolina	276,064	270,859
Pennsylvania	40,944	40,944	South Dakota	<b>2,922,705</b>	<b>2,274,768</b>
Texas	340,518	340,518	Tennessee	<b>1,304,892</b>	926,899
Washington	154,096	154,096	Texas	<b>4,265,690</b>	<b>3,507,682</b>
Wisconsin	88,871	88,871	Utah	810,199	579,378
Other States	<u>785,794</u>	<u>785,794</u>	Vermont	503,741	466,653
United States	<b>3,284,017</b>	<b>3,284,017</b>	Virginia	771,113	664,145
			Washington	<b>3,357,072</b>	<b>2,884,094</b>
<b>TOTAL:</b>			<b>West Virginia</b>	146,921	135,003
Alabama	<b>1,584,806</b>	<b>1,380,403</b>	Wisconsin	<b>7,546,376</b>	<b>6,800,475</b>
Alaska	52,313	41,846	Wyoming	223,226	147,178
Arizona	774,972	721,816	Other States	117,810	110,646
Arkansas	<b>2,047,625</b>	<b>1,732,551</b>	Foreign <sup>4</sup>	<u><b>1,172,874</b></u>	<u>502,814</u>
California	<b>9,565,402</b>	<b>8,890,968</b>			
Colorado	<b>1,111,800</b>	924,076	U.S.	<b>112,194,702</b>	<b>93,818,247</b>
Connecticut	135,552	126,710			
Delaware	94,375	86,123			
Florida	<b>2,687,777</b>	<b>2,498,745</b>			
Georgia	<b>1,305,067</b>	<b>1,282,038</b>			

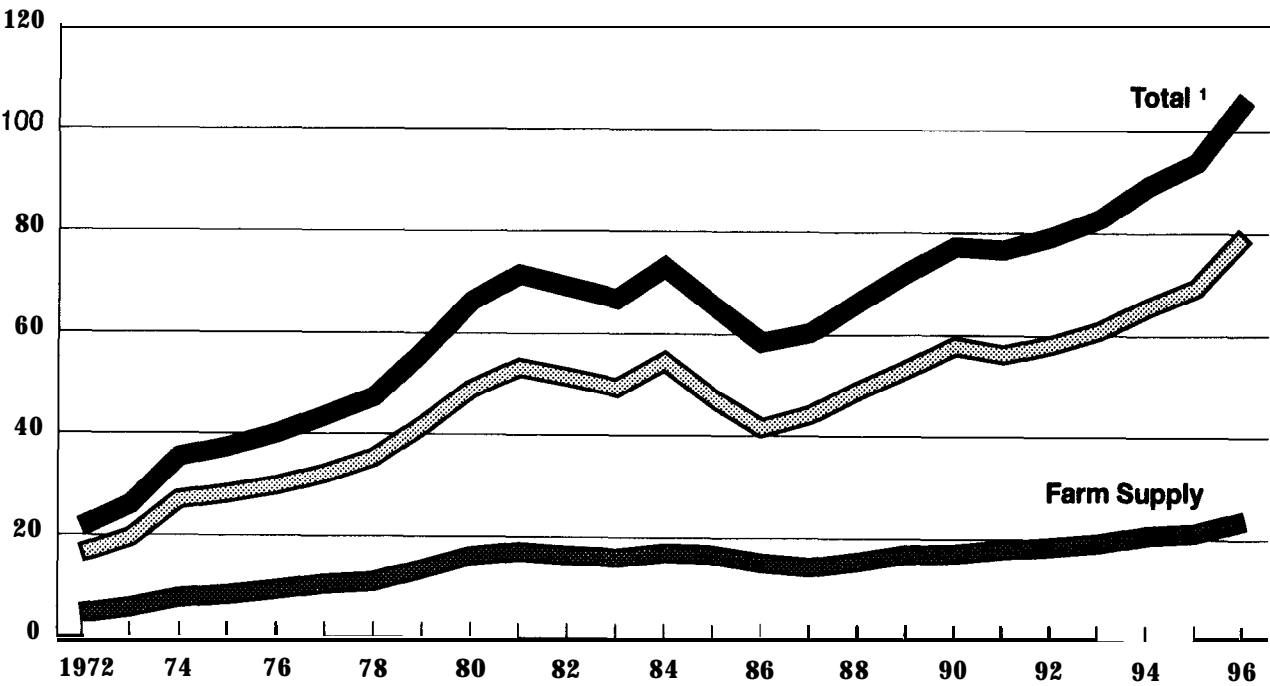
See footnotes next page



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- <sup>1</sup> 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.
  - <sup>4</sup> 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.
  - <sup>6</sup> 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.
  - <sup>7</sup> 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.
  - <sup>8</sup> Income from services related to marketing and purchasing **activities** not included in these volumes.

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

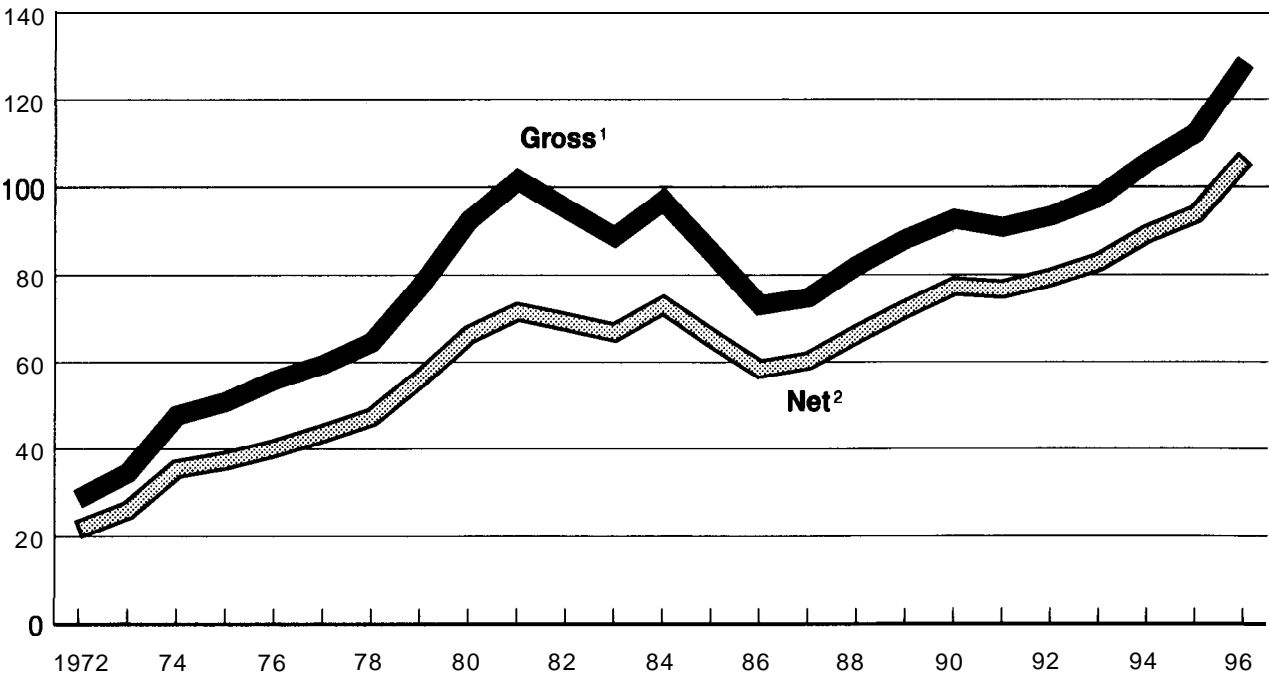
Billion dollars



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

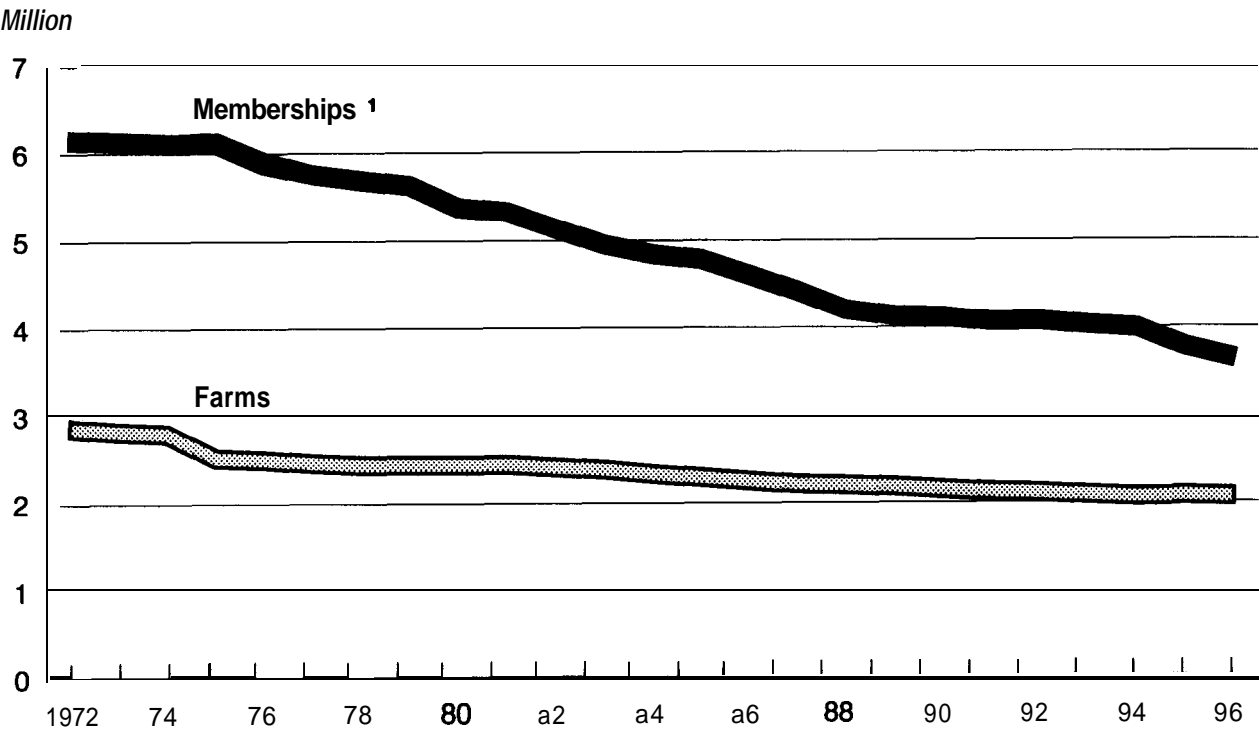
Appendix Figure 2— Cooperatives' Gross and Net Business Volumes, 1972-96

Billion dollars



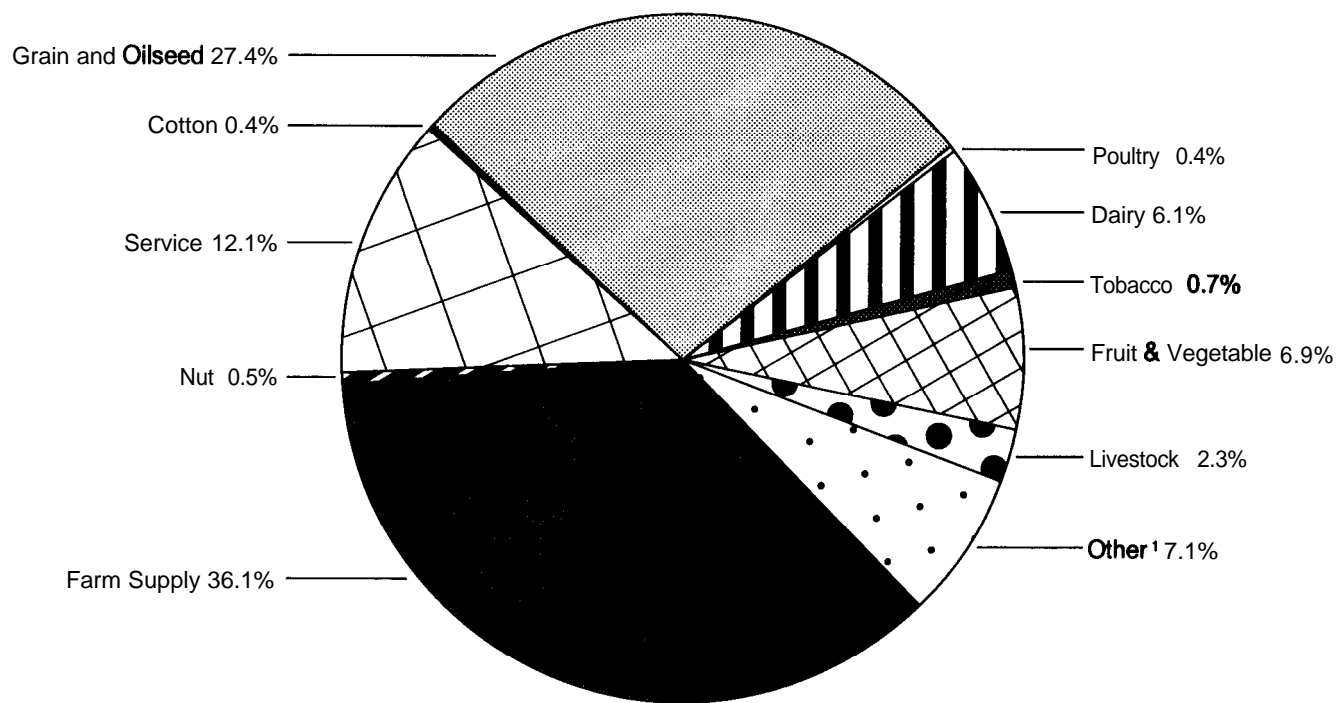
<sup>1</sup> Includes intercooperative business. <sup>2</sup> Excludes intercooperative business.

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



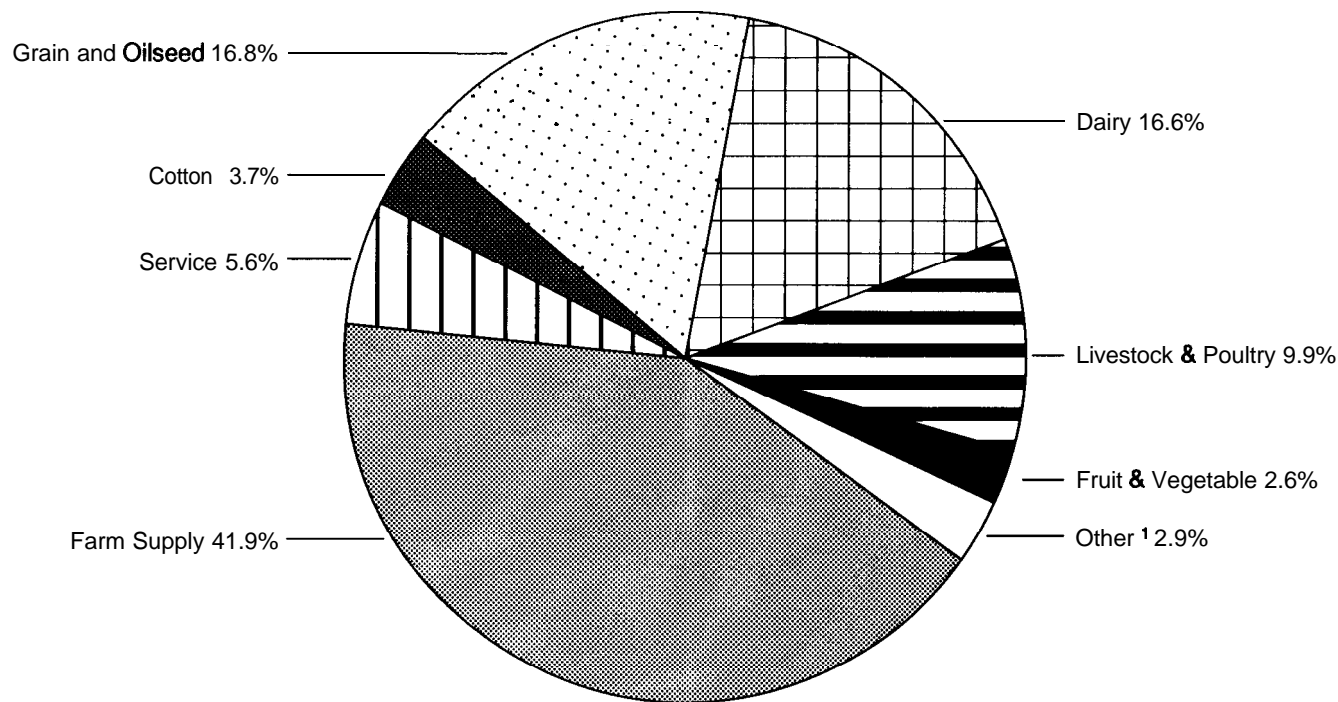
<sup>1</sup> Memberships were higher than farm numbers because many farmers belonged to more than one cooperative.

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



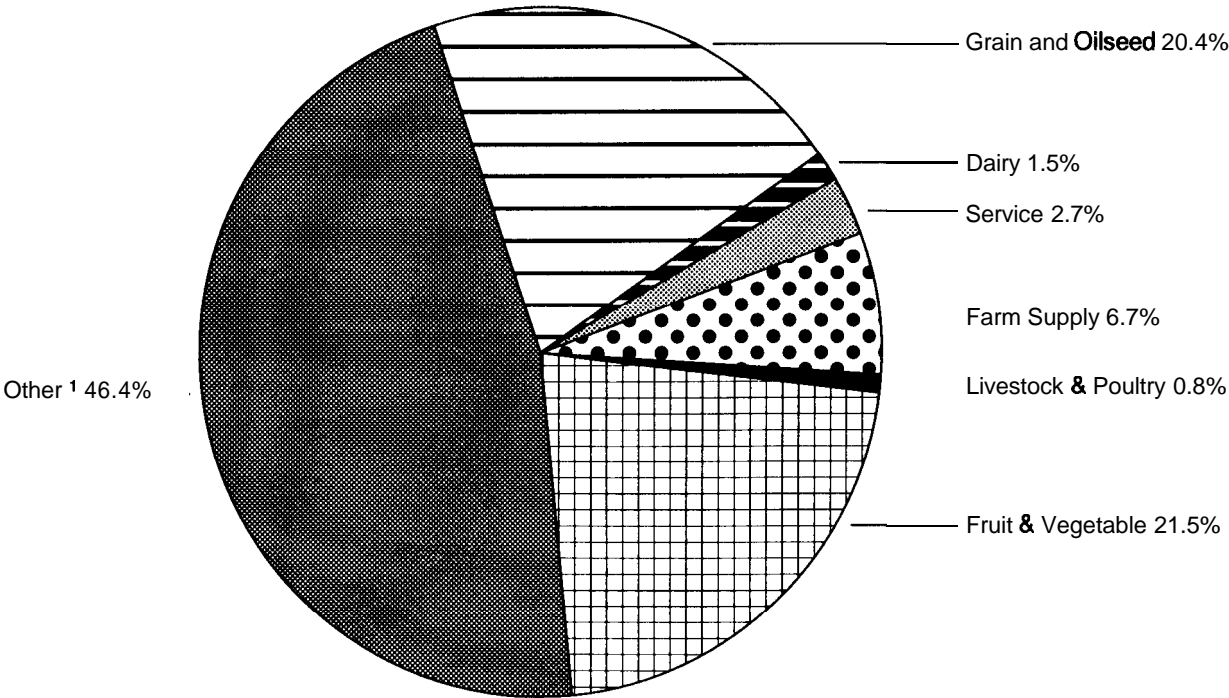
Percent based on 3,884 cooperatives.  
<sup>1</sup> Includes dry bean and pea, rice, wool and mohair, sugar, fishery, and other miscellaneous marketing cooperatives.

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



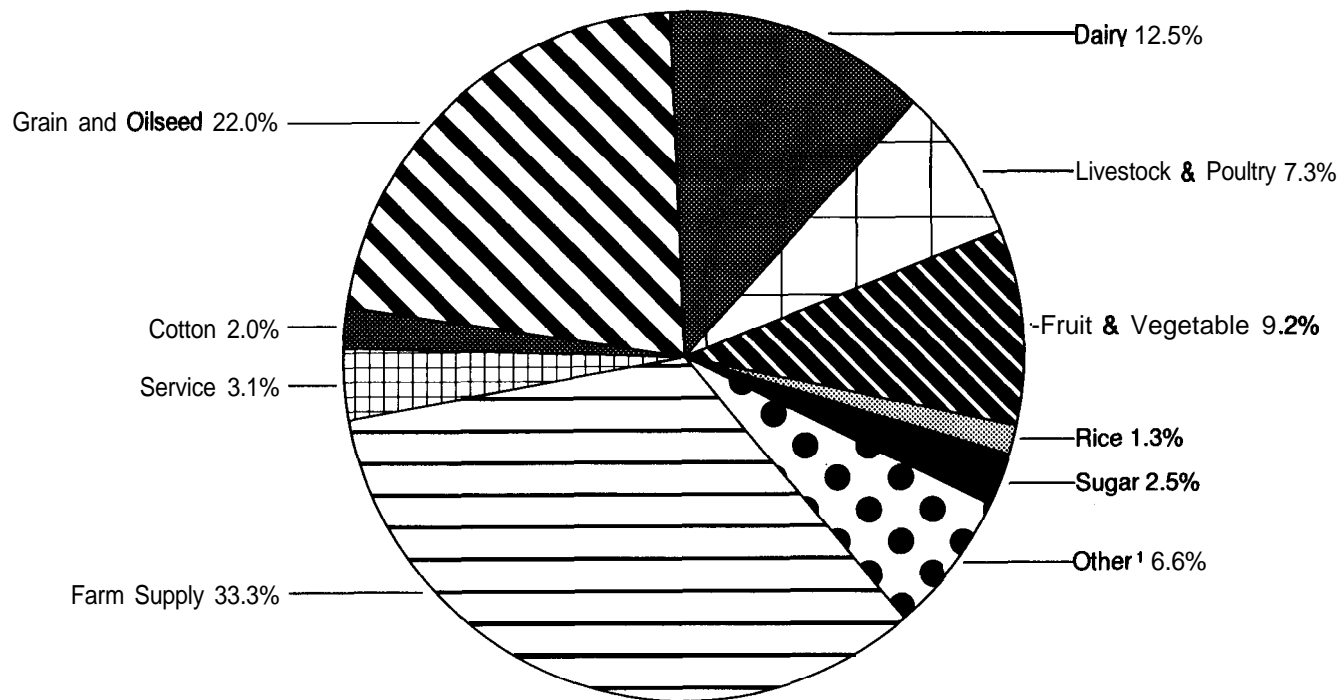
Percent based on total net income of \$2.25 billion.  
<sup>1</sup> Includes **dry** bean and pea, nut, rice, sugar, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

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

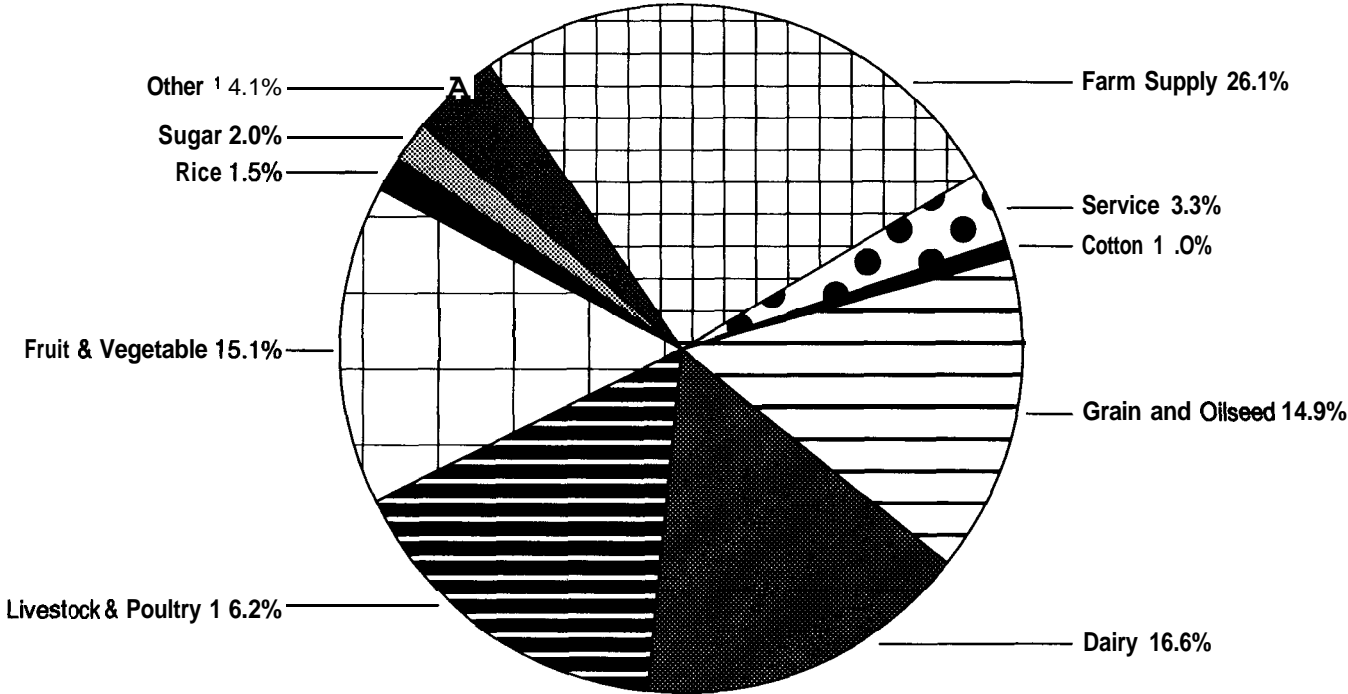


Percent based on total net worth of \$17.4 billion.

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

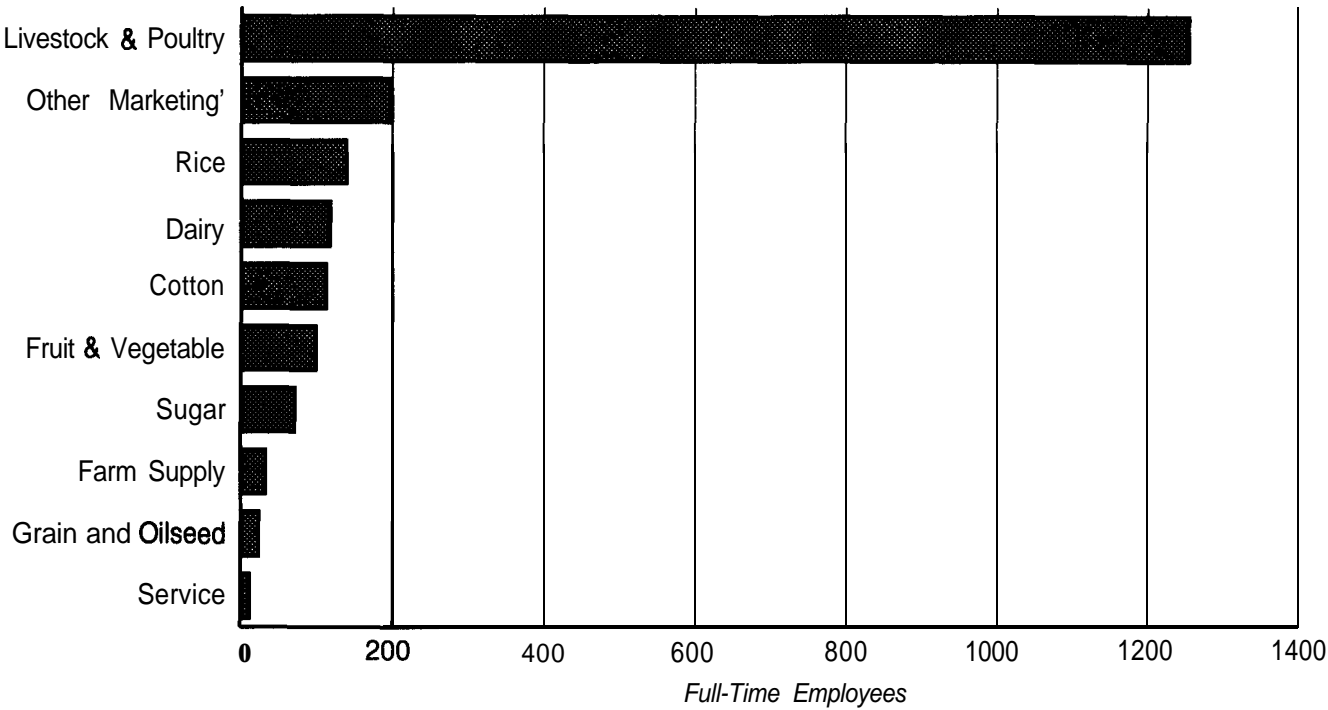


Appendix Figure 8— Distribution of Full-Time Employees by Type of Cooperative, 1996



Percent based on 174,795 full-time employees.  
¹ Includes dry bean and pea, nut, sugar, tobacco, wool and mohair, and other miscellaneous marketing cooperatives.

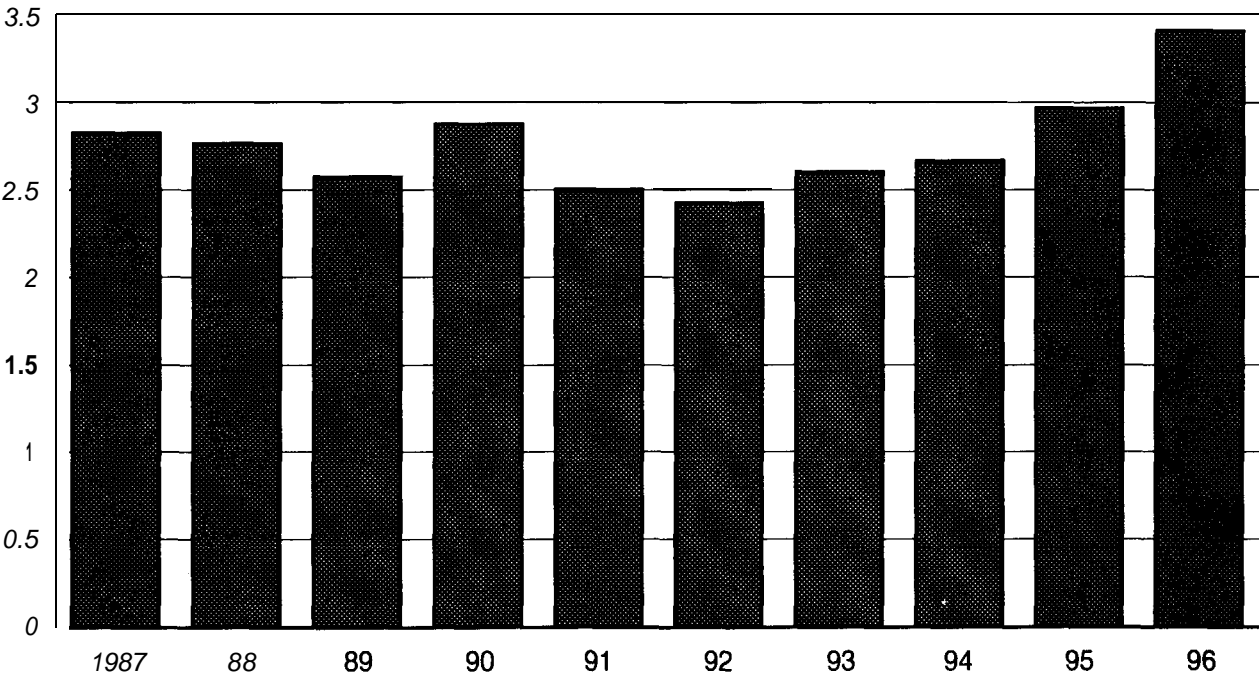
Appendix Figure 9— Average Number of Full-Time Employees Per Cooperative, by Co-op Type, 1996



<sup>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



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**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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