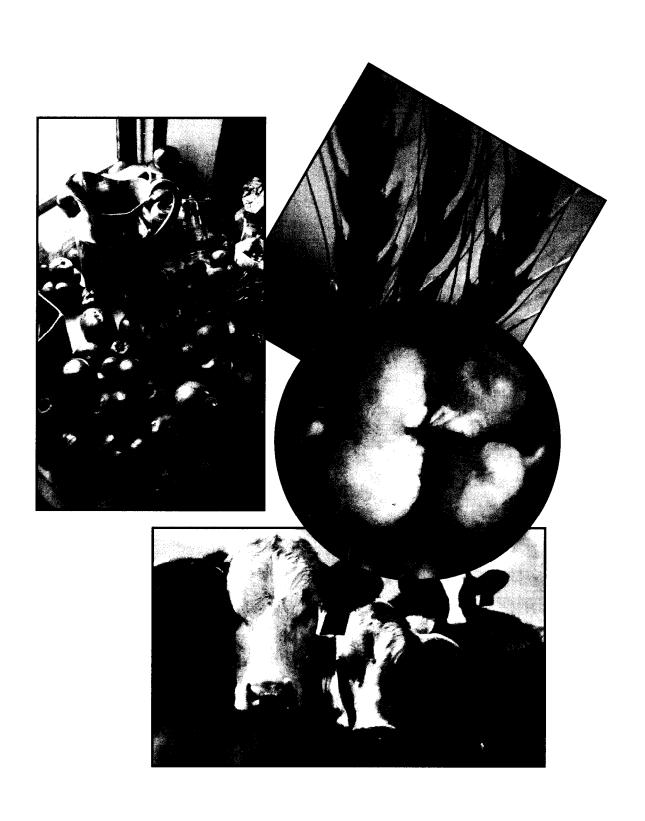
United States Department of Agriculture

Rural **Business**– Cooperative Service

RBS Service Report 57



Farmer Cooperative Statistics, 1998



Abstract

A survey of all U.S. farmer cooperatives ending their business years during calendar year 1998 showed a net income of \$1.7 billion, down from \$2.3 billion in 1997. Gross and net business volumes were down for the 3,651 cooperatives in the survey. Assets, liabilities, and net worth were up. Business volume by commodity handled is reported for all cooperatives and by State for 1997. Number of cooperatives, cooperative memberships, and number of employees are classified according to marketing, farm supply, and service function. Trends in cooperative numbers, memberships, employees, business size, sales volume, net income, assets, liabilities, and net worth are reported along with data on selected activities of other service organizations.

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

Farmer Cooperative Statistics, 1998

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

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Preface

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

This report provides aggregate information on the number, membership, business volume, net income, and full-time employees of farmer cooperatives whose business years ended in 1998. Cooperatives are classified by principal product marketed and major function. Fishery cooperatives are included as miscellaneous marketing cooperatives. Both gross (includes intercooperative business) and net (excludes intercooperative business) dollar volumes are reported.

Statistics for 1998 were compiled on a national basis. State data on cooperative business volume and memberships are reported for 1997. State data are collected every other year.

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 a farmer or aquacultural cooperative. Information was requested for cooperatives' 1998 business years.

RBS conducts an annual census because of the need to make more accurate estimates for all cooperatives and to use current data on cooperatives for research, education, and technical assistance purposes. Information obtained from individual cooperatives is combined to maintain confidentiality.

Statistics for all cooperatives were derived by adding data estimated for nonrespondents to respondent data. Responses to the 1998 survey accounted for 91 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 and effort taken to provide information and the timeliness with which it is furnished are greatly appreciated.

Contents

	S	
I-DEFINITIO	N OF A FARMER COOPERATIVE	
	Classification of Cooperatives	
	Organizational Membership Structures	.2
II—1 998 ST	ATISTICS	
	Number of Cooperatives	
	Memberships	
	Employees	
	Total Labor Expense	٠
	Business Size	٤.
	Business Volume	
	Net Income1	4
	Balance Sheet	6
	Selected Financial Ratios	
III-COOPER	RATIVE TRENDS, 1989-982	! 1
	Number of Cooperatives	!1
	Memberships	2
	Employees	3
	Business Volume	2
	Net Income	6
	Balance Sheet	6
IV-OTHER	SERVICE COOPERATIVES2)
	Farm Credit System	27
	Rural Telephone Cooperatives	3(
	Rural Electric Cooperatives	3(
	Rural Credit Unions	3.
	Dairy Herd Improvement Associations	
TABLES		
Table 1—	Number of cooperatives and memberships, by major	
	business activity, 1998	
Table 2—	Number of cooperatives, by major function and State, 1998	
Table 3—	Full-time and part-time and seasonal employees	
	of farmer cooperatives, by type of cooperative, 1997-98	7
Table 4—	Average total labor expense for cooperatives	
	reporting, by selected type and size, 1997-981	C
Table 5—	Total sales per dollar of total labor expense for cooperatives	
	reporting, by selected type and size, 1998	1
Table 6—	Farmer cooperatives and memberships, by gross	
	business volume, 19981	2
Table 7—	Cooperatives' gross and net business volumes by	
	commodity,1998	,
Table 8—	Farmer cooperatives' net income, 1998	
Table 9—	•	
	Combined assets for farmer cooperatives, 1998	
	Selected financial ratios for cooperatives, 1998	
Table 12—	Number of farmer cooperatives, 1989-98	2
	Estimated number of branches operated by grain	,
. abio 10	and farm supply cooperatives, 1992-98	2:
Table 14—		-
	cooperatives, 1989-98	2,
Table 15—	Cooperatives' number of full-time employees, 1994-98	

Contents

Table 16—	Cooperatives' net business volume, 1989 and 1998	.26
Table 17—	Cooperatives' gross and net business volumes, 1989-98	.29
	Net income of farmer cooperatives, 1989-98	
Table 19—	Combined balance sheet data for farmer cooperatives, 1989-98	.31
	Farm Credit Association Structure, Jan. 1, 1999	
	Farm Credit System's combined assets, net worth,	
	and net income, 1994-98	.33
Table 22—		
	net loans, and net income, 1994-98	.33
Table 23—	Combined assets, net worth, net loans, and net income of the	
Table 20	St. Paul Bank for Cooperatives and CoBank, ACB, 1994-98	33
Table 21—	Number, participation, and level of activity of rural	.00
Table 24	telephone cooperatives, by State, Dec. 31, 1998	2/
Table 25—	Number, participation, and level of activity of rural	.04
Table 25—		25
Table 00	electric cooperatives, by State, Dec. 31, 1998	.ა၁
Table 26—	Number, participation, and level of activity of rural	00
Table 07	credit unions, by State, Dec. 31, 1998	.30
Table 27—	Number, participation, and level of activity of dairy herd	
	improvement associations, by State, Dec. 31, 1998	.37
51011550		
FIGURES	N. J. (0	_
Figure 1—	Number of Cooperatives by Function, Leading States, 1998	
Figure 2—	Branches of Grain and Farm Supply Cooperatives by Size, 1998	
Figure 3—	Distribution of Memberships by Type of Cooperative, 1998	6
Figure 4—	Cooperative Memberships Grouped by Function	
	and Gross Business Volume, 1998	6
Figure 5—	Full-Time and Part-Time and Seasonal Employees,	
	by Type of Cooperative, 1998	.8
Figure 6—	Average Number of Full-Time and Part-Time and Seasonal	
	Employees, by Type of Cooperative, 1998	.9
Figure 7—	Distribution of Farmer Cooperatives and Gross Business	
	Volume, by Size, 1998	.12
Figure 8—	Relative Importance of Farm Products Marketed	
•	by Cooperatives, 1998	.14
Figure 9—	Relative Importance of Farm Supplies Handled	
3	by Cooperatives, 1998	.15
Figure 10—	Total Net Income or Loss by Cooperative Type, 1998	
•	Percentage of Cooperatives' Assets Financed	
9	by Net Worth, by Cooperative Type, 1998	.17
Figure 12—	Farmer Cooperatives in the United States, 1989-98	
	Cooperatives Removed from RBS' List, 1989-98	
•	Grain and Farm Supply Cooperatives and Branches, 1992-98	
	Cooperatives' Memberships by Function, 1989-98	
	Cooperatives' Net Business Volume, 1989-98	
•	•	
•	Cooperatives' Net Sales of Selected Commodities, 1989-98	
	Cooperatives' Net Sales of Selected Farm Supplies, 1989-98	
rigure 19—	Cooperatives' Net Income, 1989-98	.ძ0
rigure 20—	Cooderatives Net Worth and Liabilities, 1989-98	.32

Contents

APPEND	XIC	TAB	LES	.38
Appendix	Table	1—	Number of cooperatives and memberships, by major business activity and State, 1997	39
Appendix	Table	2—	Cooperatives' business volume, by	
			commodity and State, 1997	.43
APPEND	OIX	FIGL	JRES	.51
Appendix	Figure	1—	Cooperatives' Net Business Volume, 1974-98	.52
Appendix	Figure	2—	Cooperatives' Gross and Net Business	
			Volumes, 1974-98	52
Appendix	Figure	3—	U.S. Farms and Farmer Cooperative	
			Memberships, 1974-98	.53
Appendix	Figure	4—	Distribution of Farmer Cooperatives	
			by Type, 1998	.53
Appendix	Figure	5—	Distribution of Total Net Income by Type	
			of Cooperative, 1998	.54
Appendix	Figure	6—	Distribution of Total Losses by Type	
			of Cooperative, 1998	.54
Appendix	Figure	7—	Distribution of Total Net Worth by Type	
			of Cooperative, 1998	.55
Appendix	Figure	8	Distribution of Total Full-time Employees	
			by Type of Cooperative, 1998	.55
Appendix	Figure	9	Assets Per Full-Time Employee,	
			by Type of Cooperative, 1998	.56
Appendix	Figure	1 0-	- Cooperatives' Investments in and Patronage	
			Refunds Received from Other Conneratives 1989-98	56

Highlights

Both gross and net business volumes dropped and net income declined significantly in 1998 according to a survey of marketing, farm supply, and related-service cooperatives by USDA's Rural Business-Cooperative Service (RBS). Although the number of cooperatives and memberships declined, total assets, total liabilities, net worth, and number of full-time employees increased.

- Total gross business volume (includes intercooperative business) handled by cooperatives dropped 4.5 percent, to \$121 billion in 1998 from \$126.7 billion in 1997.
- Total net business (excludes intercooperative business) dropped 1.9 percent, or \$2 billion, to \$104.7 billion from \$106.7 billion.
- Total net income of \$1.7 billion was down 24.7 percent from the \$2.3 billion reported in 1997. The 1998 net included intercooperative dividends and refunds of \$573 million-down 24.3 percent from \$757.1 million. This included, reporting for the first time, refunds from CoBank and the St. Paul Bank for Cooperatives.
- The number of cooperatives declined 3.7 percent, from 3,791 to 3,651.
- Grain and farm supply cooperatives operated an estimated 5,617 branches in 1998, up from 5,433 in 1997.
- Cooperative memberships were 3,352,577, down 2.1 percent from 3,424,168 in 1997
- Cooperatives employed 173,791 full-time and 91,799 part-time and seasonal employees in 1998. Numbers of full-time employees increased 0.9 percent, while part-time and seasonal employees decreased 4.8 percent.
- Gross value of farm products marketed by cooperatives in 1998 decreased 1.7 percent, to \$84.5 billion from \$85.9 billion. Net value of these farm products, after eliminating intercooperative business, was \$76.6 billion, down 1.5 percent from \$77.8 billion.
- Gross value of farm supplies handled by farmer cooperatives was down 11 .1 percent, to \$33 billion from \$37.1 billion. After adjusting for intercooperative business, the decrease was 2.5 percent, to \$24.6 billion from \$25.2 billion.
- Receipts for services related to marketing farm products and handling farm supplies, plus other income, decreased 4.8 percent to \$3.5 billion.
- Combined assets for all farmer cooperatives increased 5.8 percent to \$46.6 billion from \$44 billion. Net assets, after eliminating intercooperative investments, was up 6.2 percent, to \$41.9 billion from \$39.4 billion. This included investments in CoBank and the St. Paul Bank for Cooperatives.
- Total liabilities of \$26.6 billion was up 4.5 percent from \$25.5 billion.
- Net worth, or member and patron equity, rose 7.6 percent to nearly \$20 billion from \$18.5 billion. Member and patron equity financed 42.9 percent of total assets, up from 42.1 percent in 1997.

Highlights

HIGHLIGHTS CAPSULE			
	1997	1998	Change
Number of cooperatives	3,791	3,651	-140
Memberships	3,424,168	3,352,577	-71,591
Gross business volume (mil. dol.)	126,673	120,961	-5,712
Net business volume (mil. dol.)	106,670	104,667	-2,003
Net income (mil. dol.)	2,314	1,742	-572
Total assets (mil. dol.)	43,996	46,560	2,564
Net worth (mil. dol.)	18,537	19,954	1,417
Full-time employees	172,199	173,791	1,592
Part-time and seasonal employees	96,472	91,799	-4,673
Leading States	1995	1997	
	Minnesota	Minnesota	
Number of cooperatives	389	368	-21
	Minnesota	Minnesota	
Memberships	329,241	296,058	-33,183
	California	Iowa	
Net business volume (mil. dol.)	8,891	10,941	N/A

FARMER COOPERATIVE STATISTICS, 1998

Charles A. Kraenzle, Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, and Jacqueline E. Penn Rural Business-Cooperative Service

I-Definition of a Farmer Cooperative

The Rural Business-Cooperative Service (RBS) of USDA's Rural Development mission area 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 regardless of the amount of stock or membership capital owned, or the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; (3) business conducted with nonmembers may not exceed the value of business done with members: and (4) the cooperative operates for the mutual interest of members by providing member 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 RBS definition. Other reasons for possible differences in the number of cooperatives are that: (1) RBS may not learn of certain cooperatives operating in a State for a considerable period of time; (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 with 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. RBS classifies these cooperatives into one of 13 commodities or commodity groups depending upon which accounts for most of its business volume. RBS may reclassify a cooperative into a different commodity category if its primary business volume changes.

Farm supply cooperatives derive most of their business volume from the sale of farm production supplies. These cooperatives handle a wide variety of supplies, 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, added in 1993, previously were listed with rice marketing cooperatives.

Many cooperatives handle multiple commodities 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 3,651 farmer cooperatives in 1998, 3,546 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 or 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 63 federated associations often operate at points quite distant from their headquarters. Federated cooperative members are usually local cooperatives, although some are interregional associations with regional cooperative members.

Mixed

A few cooperatives have both individual farmermembers and autonomous cooperative members, a combination of centralized and federated structures. They serve large geographic areas, with members in many States, and provide a variety of integrated services. RBS has identified 42 such cooperatives.

II-1 998 STATISTICS

Cooperatives' net business volume was \$104.7 billion in 1998, down from \$106.7 billion in 1997 and the first drop in business volume since 1991. Net income of \$1.7 billion was down from \$2.3 billion in 1997, a drop of 24.7 percent. That was the lowest income level since 1993 and well off the income record of \$2.36 billion set in 1995. Numbers of cooperatives

Table 1— Number of cooperatives and memberships, by major business activity, 1998

Major business activity	Cooperatives	Memberships
	Nur	mber
Beans and peas, dry edible	8	2,872
Cotton	15	41,255
Dairy	228	92,892
Fruits and vegetables	249	43,953
Grains and oilseeds ¹	964	728,694
Livestock	80	161,515
Nuts	18	46,029
Poultry2	18	36,329
Rice	17	12,865
Sugar ³	52	15,915
Tobacco	26	172,823
Wool and mohair	91	17,911
Miscellaneous	97	25,303
Total marketing	1,863	1,398,356
Farm supply	1,347	1,773,659
Service	441	180,562
Total	3,651	3,352,577

¹ Excludes cotton. Cottonseed sales were included with cotton. Cottonseed meal and oil were included with feed and miscellaneous, respectively.

² Includes eggs, turkeys, ratite, squab. and related products.

³ Includes beets, sugarcane, honey, and related products.

and memberships, at 3,651 and 3,352,577, respectively, were down. Combined assets, net worth, and liabilities were all up.

Number of Cooperatives

The 1998 survey accounted for 3,651 marketing, farm supply, and related-service* cooperatives, compared with 3,791 in 1997. The net decrease of 140 associations (3.7 percent) largely reflects a continuing trend involving dissolution, merger, or acquisition. The largest decrease was in grain and oilseed (grain) cooperatives (50), followed by farm supply (39). Wool cooperatives increased by three and nut, dry bean, and sugar each increased by one.

Of the 3,651 cooperatives, 1,863 primarily marketed farm products, 1,347 primarily handled farm production supplies, and 441 provided services related to marketing or purchasing activities (table 1).

Marketing cooperatives decreased slightly, from 51.2 percent in 1997 to 51 percent of the total number of cooperatives in 1998, while farm supply coopera-

tives increased slightly, from 36.6 to 36.9 percent. Related-service cooperatives decreased slightly, from 12.2 to 12.1 percent.

These percentage changes to some extent reflect reclassification because of annual dollar volume changes. In any given year, sales of farm supplies or grains and oilseeds can be higher due to market supply and demand conditions.

Cooperative numbers by marketing and farm supply and service functions by State are shown in table 2. North Dakota is the leading State in marketing cooperatives (157), followed closely by Minnesota (155). Texas accounted for the largest number of farm supply and service cooperatives.

The 10 leading States in terms of number of cooperatives are shown in figure 1, which 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, while the majority in Texas were service cooperatives, mainly cotton gins. Wisconsin, the fifth leading State, had the largest percentage of farm supply cooperatives.

Grain and Farm Supply Branches

Many cooperatives operate branch facilities to better serve their members. Most are owned. Some are leased. A number are formerly independent cooperatives serving a local community. For economic or other

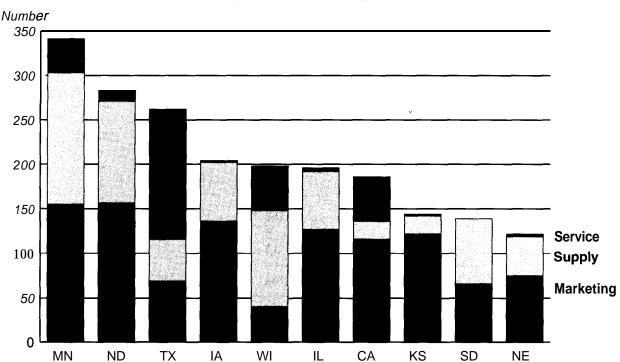


Figure 1— Number of Cooperatives by Function, Leading States, 1998

¹ 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.

Table n-Number of cooperatives, 1 by major function and State, 1998²

	Majo	or function	
State	Marketing	Farm Supply and Service	Total
		Number	
Alabama	10	5 3	63
Arizona	5	5	10
Arkansas	12	4 5	57
California	116	7 0	186
Colorado	29	2 3	52
Florida	36	8	44
Georgia	9	8	17
Hawaii	22	7	29
Idaho	24	16	40
Illinois	127	69	196
Indiana	27	31	58
lowa	136	68	204
Kansas	122	22	144
Kentucky	12	30	42
Louisiana	18	32	50
Maryland	3	17	20
Massachusetts	10	6	16
Michigan	38	30	68
Minnesota	155	186	341
Mississippi	19	59	78
Missouri	27	46	73
Montana	38	37	75
Nebraska	75	47	122
New Jersey	13	5	18
New Mexico	4	5	9
New York	82	17	99
North Carolina	20	9	29
North Dakota	157	126	283
Ohio	63	25	88
Oklahoma	45	50	95
Oregon	25	14	39
Pennsylvania	46	14	60
South Dakota	66	73	139
Tennessee	8	71"	79
Texas	69	193	262
Utah	10	8	18
Virginia	22	41	63
Washington	55	35	90
West Virginia	14	13	27
Wisconsin	40	158	198
Wyoming	7	6	13
Other States ³	47	10	57
United States	1,863	1,788	3,651

Centralized and federated cooperatives and those with mixed organizational structures.
 Data covering operations of cooperatives for fiscal years that ended in 1998.
 Includes States with fewer than three cooperatives for any function. States with at least three cooperatives were: Connecticut, 5; Delaware, 3; South Carolina, 8.

reasons, many were acquired by or merged with other cooperatives and operated as branches from which to serve members and patrons at outlying locations.

In 1998, grain and farm supply cooperatives operated an estimated 5,617 branches-2,299 and 3,318, respectively. There was an increase of 49 branches for grain cooperatives and an increase of 135 branches for farm supply cooperatives. Both grain and farm supply cooperatives averaged 2.4 branches per cooperative in 1998. In 1997, grain and farm supply cooperatives operated an estimated 5,433 branches.

Figure 2 shows that several of the largest cooperatives (mainly regional) had more branches than many smaller (local) cooperatives combined. The 48 largest grain cooperatives-5 percent of all grain cooperatives-accounted for 31.1 percent of the total number of branches operated by grain cooperatives. And the 30 largest farm supply cooperatives had 1,672 branches, 50.4 percent of all farm supply branches.

Memberships

Memberships in marketing, farm supply, and related-service cooperatives totaled an estimated 3,352,577 in 1998, down 2.1 percent from 3,424,168 in 1997 (table 1).

By the cooperative's major business activity, 52.9 percent were memberships of farm supply cooperatives and 21.7 percent were of grain (figure 3). Dairy cooperative memberships were only 2.8 percent of cooperatives' total memberships, but accounted for 24.2 percent of cooperatives' net business volume in 1998, up from 21.9 percent in 1997.

Among marketing cooperatives, memberships decreased in 1998 for every type except sugar, nut, wool, poultry, and dry-edible bean cooperatives-all of which increased.

The largest proportions of memberships in farm supply cooperatives were among the smallest and largest cooperatives, as shown in figure 4. Memberships in marketing cooperatives were the greatest proportion of total memberships among those cooperatives with gross business volumes of \$15 million to \$250 million. When grouped by function and size, the largest number of memberships was in those cooperatives with a gross business volume of \$15 million to \$100 million.

Employees

Farmer cooperatives, like other businesses, employ full-time and, in many cases, part-time and seasonal employees to run their operations. The num-

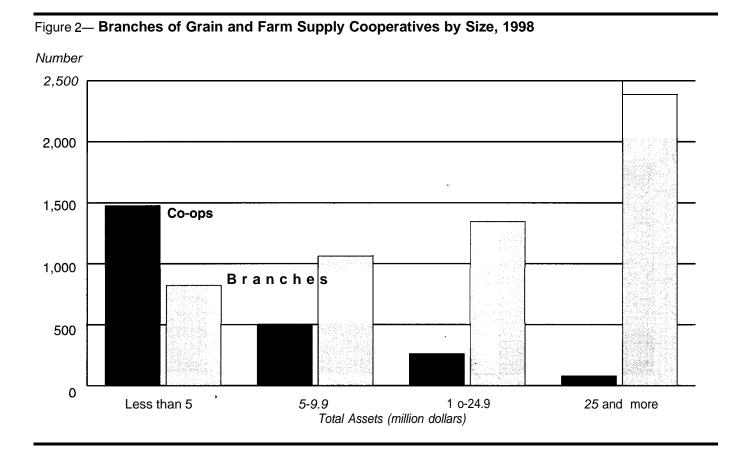
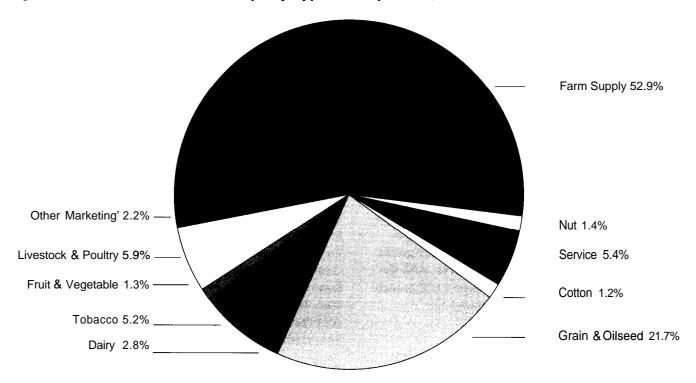


Figure 3— Distribution of Memberships by Type of Cooperative, 1998



Percent based on 3,352,577 total memberships.

Figure 4— Cooperative Memberships Grouped by Function and Gross Business Volume, 1998 1.000 Memberships 1000 Service 900 800 700 600 Farm Supply 500 450 300 200 Marketing 100 0 Less than 5 5-9.9 10-14.9 15-99.9 100-249.9 250 and more

Gross business volume (million dollars)

¹ Includes dry bean and pea, wool and mohair, rice, sugar, fishery, and other miscellaneous marketing cooperatives

ber and type of employees hired depends on a number of factors, such as size of operation, type of commodity handled, and involvement in value-added activities.

In 1998, farmer cooperatives employed an estimated 265,590 full-time and part-time and seasonal employees, down from 268,671 in 1997 (table 3). By type, marketing cooperatives had 185,135 employees (69.7 percent of total); farm supply cooperatives had 66,506 employees (25 percent); and related-service cooperatives had 13,949 employees (5.3 percent).

Among marketing cooperatives, those primarily handling fruits and vegetables had the most employees (58,055), followed by livestock and poultry (41,807) and grain and oilseed (32,411).

Figure 5 shows the number of full-time and parttime and seasonal employees by type of cooperative for 1998. Farm supply cooperatives used the most employees and rice cooperatives the fewest. Rice cooperatives had the smallest proportion of total part-time and seasonal employees. Related-service, followed by fruit and vegetable, cooperatives had the largest proportion of part-time and seasonal employees.

Full-time employees totaled 173,791 in 1998, up from 172,199 in 1997, or 0.9 percent. The number per association, however, was nearly 48, up from 45 in

1997, due both to fewer cooperatives and more full-time employees. The 1,863 marketing cooperatives employed 120,069 persons, up 1.3 percent from 1997. Livestock and poultry cooperatives, with 28,031, had the most full-time employees, while dairy cooperatives, with 27,056, ranked second. Together, they accounted for 45.9 percent of the full-time employees of marketing cooperatives.

The 1,347 farm supply cooperatives employed 48,171 persons on a full-time basis, up only 0.6 percent from the 47,870 reported for 1997. Full-time employees of the 441 related-service cooperatives totaled 5,551 in 1998, down from 5,850, or 5.1 percent.

Cooperatives used 91,799 part-time and seasonal employees in 1998, down 4,673, or 4.8 percent, from 1997. Cooperatives marketing fruits and vegetables hired an additional 2,796 part-time and seasonal employees.

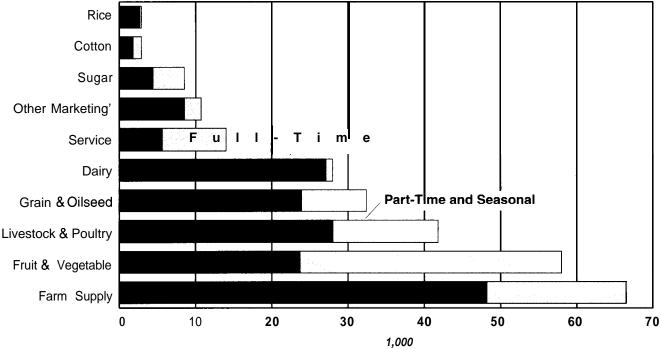
In 1998, marketing cooperatives reported 65,066 part-time and seasonal employees, or 70.9 percent of the total. Number per cooperative averaged nearly 35. Fruit and vegetable and livestock and poultry cooperatives, with 48,097, accounted for 73.9 percent. Farm supply cooperatives had 18,355 part-time and seasonal employees, an average of nearly 14. Many of the mar-

Principal product(s)	Full-time	employees	Part-time a		
marketed or major function	1997	1998	1997	1998	
		Num	nber		
Products marketed:					
Cotton	1,995	1,844	643	1,050	
Dairy	28,323	27,056	825	925	
Fruits & vegetables	22,847	23,734	31,525	34,321	
Grains and oilseeds					
excluding cottonseed	23,538	23,873	9,106	8,538	
Livestock and poultry	26,399	28,031	17,477	13,776	
Rice	2,713	2,655	226	231	
Sugar	3,473	4,402	4,203	4,052	
Other products*	9,191	8,474	2,826	2,173	
Marketing	118,479	120,069	66,830	65,066	
Farm supply	47,870	48,171	19,264	18,335	
Service	5,850	5.551	10.377	8,398	
Total	172,199	173,791	96,472	91,799	

¹ Number of part-time employees was estimated for all cooperatives based on the relationship of part-time to full-time employees for the respondent **cooperatives**. Data for 1997 were revised. Totals may not add due to rounding.

² Includes dry edible beans and peas, nuts, tobacco, wool, fishery, and miscellaneous marketing cooperatives.

Figure 5— Full-Time and Part-Time and Seasonal Employees, by Type of Cooperative, 1998



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

keting cooperatives needed more employees than did farm supply cooperatives. For example, livestock and poultry cooperatives averaged nearly 427 employees (figure 6).

Total Labor Expense

One of the largest expense items of any business is wages and benefits. Cooperatives are no exception. Hiring employees full-time or part-time and seasonally involves decisions on the number of employees and levels of salaries and wages. Other employee-related expenses include associated payroll taxes, insurance expenses, etc.

The average total labor expense per cooperative for those reporting in both 1997 and 1998 is shown in table 4. Average total labor expense (including director fees) is shown by type of cooperative and by asset group. This information can be used for comparing the average total labor expense of individual cooperatives of similar type and size.² For those where no size

grouping is shown, labor expense may not be a good barometer because of the mix of sizes included in the group.

Overall, total labor expense for the cooperatives reporting total wages and benefits both years was up 3.1 percent. As shown in table 4, average total labor expense varied from a decrease from 1997 to 1998 of 16.3 percent for the small cotton gins (assets less than \$500,000) to an increase of 15 percent for the related-service cooperatives. Also, average total labor expense increased as size of cooperative increased, especially for some of the largest cooperatives. In most cases, these larger cooperatives are involved in processing or manufacturing activities that are very labor intensive.

Total Sales Per Dollar of Labor Expense

The productivity of labor can be measured by examining the relationship between total sales and total labor expense. Table 5 shows total sales per dollar of total labor expense by type and size of cooperative, where applicable.

Total sales per dollar of total labor expense is relatively high for cooperatives involved in bargaining (dairy) or operating auctions (tobacco and livestock). In these situations, total labor requirements are low

² In a 1999 USDA survey of farmer cooperative statistics users, twothirds of those responding thought the most useful information to add to USDA's statistics of farmer cooperatives would be information on wages and benefits.

Service Grain & Oilseed Other¹ Farm Supply **Full-Time** Dairy Part ime and Seasona Sugar Rice Cotton Fruit & Vegetable Livestock & Poultry 350 400 450 50 100 150 200 250 300 Number

Figure 6— Average Number of Full-Time and Part-Time and Seasonal Employees, by Type of Cooperative, 1998

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

and sales are high. Surveyed cooperatives reported the value of the product for which they bargained or which they auctioned off.

Dairy cooperatives with assets of \$500,000 to \$1 million accounted for the highest sales per dollar of labor expense, \$216.12 (table 5). Other service cooperatives with assets in the \$1 million to \$2.5 million range had the lowest sales per dollar of labor expense, \$2.21.

Total sales per dollar of labor expense varies less as the size of cooperatives becomes larger for grain and oilseed and farm supply cooperatives than it does in differing sizes for dairy and fruit and vegetable cooperatives. Dairy cooperatives ranged from \$23.91 to \$216.12; fruit and vegetable cooperatives from \$7.99 to \$90.20; grain and oilseed cooperatives from \$19.60 to \$49.67; and farm supply cooperatives from \$9.92 to \$14.65.

Cooperative leaders may want to calculate their total sales per dollar of total labor expense and compare it with the appropriate figure in table 5 to see how well their cooperative is performing.

Business Size

Most farmer cooperatives, as measured by annual gross business volume, are relatively small and serve

local areas. Several are actively seeking regional, national, and even international markets to increase business volume. These larger cooperatives account for much of cooperatives' business volume.

The increased size comes in part from mergers, consolidations, and acquisitions. Data used were not adjusted for changes in price levels, and some size changes resulted from inflation.

In 1998, 75.3 percent of all farmer cooperatives reported a business volume of less than \$15 million. However, they accounted for only 9.9 percent of the total gross dollar volume (table 6 and figure 7). Only 1.7 percent of farmer cooperatives reported a business volume of at least \$250 million, but they accounted for 59.2 percent of the total sales, down from 60.5 percent in 1997.

Business Volume

Total gross business volume of the 3,651 marketing, farm supply, and related-service cooperatives for 1998 was \$121 billion (table 7), down 4.5 percent from \$126.7 billion in 1997.

Total net business volume of farmer cooperatives in 1998 was \$104.7 billion, \$76.6 billion from farm products marketed, \$24.6 billion from farm supply

Table S-Average total labor expense for cooperatives reporting, by selected type and size, 1997-98

Type of co-op	Average total	labor expense	
and asset group (Mil. Dol.)	1997	1998	Change
	\$1	, 000	Percent
Dry bean and pea	2,557	2,925	14.4
Cotton	4,154	4,062	-2.2
Dairy	2,778	2,997	7.9
Less than 0.5	20	20	7
0.5 99	153	152	5
1.0 - 2.49	175	177	1.5
2.5 = 24.99	1,528	1,592	4.3
25.0 - 99.99	10,998	12,167	10.6
Fruit and vegetable	5,964	6,238	4.6
Less than 0.5	70	71	.6
0.5 99	311	312	.2
1.0 - 2.49	355	332	-6.3
2.5 - 24.99	2,148	2,150	.2
25.0 - 99.99	9,231	9,384	1.7
100.0 and more	53,972	57,391	6.3
Fruit and vegetable	5,964	6,238	4.6
Fresh only	1,348	1,394	3.4
Processed only	25,628	25,660	.1
Fresh and processed	12,943	14,404	11.3
Grain and oilseed	1,228	1,303	6.1
Less than 0.5	56	55	-2.0
0.5 99	117	122	3.9
1.0 - 2.49	219	226	3.1
2.5 - 24.99	999	1,050	5.1
25.0 - 99.99	3,446	3,795	10.1
100.0 and more	30,530	32,390	6.1
_ivestock	1,207	1,122	-7.0
Nut	11,806	12,874	9.0
Poultry	54,513	49,808	-8.6
Rice	22,718	23,029	1.4
Sugar	22,349	22,183	7
Tobacco	151	139	-8.2
ishery	5,598	5,813	3.8
Miscellaneous marketing	20,646	20,618	1
arm supply	1,691	1,774	4.9
Less than 0.5	73	74	0.9
0.5 99	161	167	4.1
1.0 - 2.49	307	319	3.8
2.5 - 24.99	1,241	1,295	4.3
25.0 - 99.99	5,126	5,818	13.5
100.0 and more	65,893	68,882	4.5
Cotton gin	361	398	10.1
Less than 0.5	107	89	-16.3
0.5 99	208	216	3.7
1.0 - 2.49	282	317	12.2
2.5 - 24.99	643	716	11.3
Service	1,478	1,699	15.0

¹ Includes wages and salaries, payroll taxes, employee benefits, and director fees.

Tables- Total sales per dollar of total labor expense for cooperatives reporting, by selected type and size 1998

Type of co-op and asset group	Sales per \$1 labor expense'	Type of co-op and asset group	Sales per \$1 labor expense'
Million Dollars	Dollars	Million Dollars	Dollars
Dry bean and pea	15.48	Livestock	91.97
Cotton	38.58	Nut	10.29
		Poultry	10.04
Dairy	31.29	Rice	12.97
Less than 0.5	139.59	Sugar	7.96
0.5 99	216.12	Tobacco	85.80
1.0 - 2.49	170.75	Fishery	7.16
2.5 - 24.99	61.47	Misc. Marketing	19.49
25.00 - 99.99	23.91	_	
100.0 and more	25.77	Farm supply	12.54
		Less than 0.5	13.05
Fruit and vegetable	9.52	0.5 99	9.92
Less than 0.5	90.20	1.0 - 2.49	11.14
0.5 99	29.29	2.5 - 24.99	10.62
1.0 - 2.49	58.84	25.00 - 99.99	12.89
2.5 - 24.99	12.87	100.0 and more	14.65
25.0 - 99.99	9.15		
100.0 and more	7.99	Cotton gin	7.96
		Less than 0.5	10.19
Fruit and vegetable	9.52	0.5 - . 99	6.73
Fresh only	14.18	1.0 = 2.49	8.09
Processed only	8.78	2.5 - 24.99	8.02
Fresh and processed	7.03		
		Other service	2.24
Grain and oilseed	28.68	Less than 0.5	2.81
Less than 0.5	19.60	0.5 99	2.60
0.5 99	27.96	1.0 - 2.49	2.21
1.0 - 2.49	29.34		
2.5 - 24.99	24.04		
25.0 - 99.99	24.11		
100.0 and more	49.67		

¹ Includes wages and salaries, payroll taxes, employee benefits, and director fees.

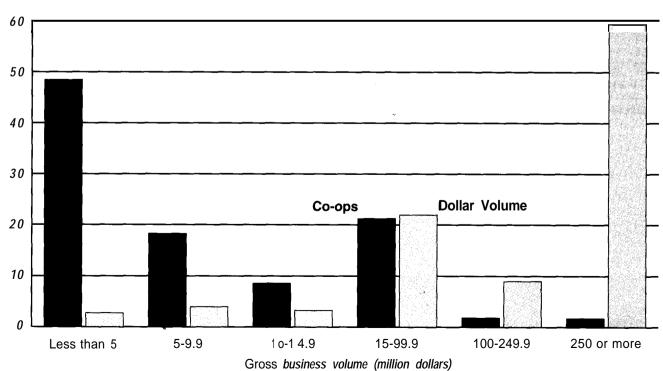
Table 6 Farmer	cooperatives	and	memberships.	bv	aross	business	volume.	19981
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Volume group	Cooperatives		Dollar	volume	Memberships ³	
(mil. dol.)	Number	Percent of total	Gross ² (mil. dol.)	Percent of total	Number (1,000)	Percent of total
Less than 5.0	1,769	48.5	3,331	2.8	690	20.6
5 - 9.9	667	18.3	4,706	3.9	463	13.8
1 - 14.9	315	8.6	3,832	3.2	275	8.2
15 - 24.9	335	9.2	6,381	5.3	314	9.4
25 - 49.9	293	8.0	9,998	8.3	426	12.7
50 - 99.9	146	4.0	10,195	8.4	248	7.4
100 - 199.9	44	1.2	6,295	5.2	123	3.7
200 - 249.9	21	0.6	4,661	3.9	35	1.0
250 - 499.9	24	0.7	8,265	6.8	165	4.9
500 - 999.9	21	0.6	14,601	12.1	115	3.4
1,000 and more	16	0.4	48,696	40.3	498	14.9
Total⁴	3,651	100.0	120,961	100.0	3,353	100.0

¹ 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.

Figure 7— Distribution of Farmer Cooperatives and Gross Business Volume, by Size, 1998





 $^{^{\}rm 2}$ Includes intercooperative business volume.

³ Includes number of farmers, ranchers, and fishermen eligible to vote for directors. Does not include memberships held by other cooperatives, such as local cooperative memberships in regional cooperatives.

⁴ Totals may not add due to rounding.

sales, and nearly \$3.5 billion from services performed and from other income sources. The total net figure (the difference between gross and net business volumes), which excludes intercooperative business, was down from \$106.7 billion set in 1997. However, adjusting for price change, net business volume actually increased 5.4 percent³, due to both lower commodity prices and lower prices paid for production items in 1998.

Gross volume of farm products marketed by cooperatives decreased 1.7 percent, from \$85.9 billion in 1997 to \$84.5 billion in 1998, due mainly to a **12-per**cent decrease in grain and **oilseed** marketings. The net volume of farm products marketed was \$76.6 billion, or 73.2 percent of the total net volume of all cooperatives, down 1.5 percent from \$77.8 billion in 1997.

Figure 8 illustrates the leading products marketed by cooperatives based on net marketing business volume. Dairy (milk and milk products) led with 33 percent, followed by grains and oilseeds (excluding cottonseed) with 27.8 percent, and fruits and vegetables with 12.2 percent. The proportions of milk and

Table 7— Cooperatives'	gross and net business	volumes b	v commodity,	1998	1
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Commodity	Gross v	olume	Net volume		
	Million dollars	Percent	Million dollars	Percent	
Products marketed:					
Beans and peas (dry edible)	187.3	0.2	187.2	0.2	
Cotton	3,004.4	2.5	2,961 .1	2.8	
Dairy	27,807.6	23.0	25,329.4	24.2	
Fruits and vegetables	9,903.8	8.2	9,391.2	9.0	
Grains and oilseeds,	•		•		
excluding cottonseed	25,338.9	21 .0	21,290.9	20.3	
_ivestock	7,575.0	6.3	7,418.1	7.1	
Nuts	900.7	.7	900.7	.9	
Poultry3	2,137.3	1.8	2,137.3	2.0	
Rice	932.0	0.8	932.0	0.9	
Sugar	2,681 .1	2.2	2,444.7	2.3	
Tobacco	348.5	0.3	348.5	0.3	
Vool and mohair	11.3	(2)	6.8	(2)	
Miscellaneous 4	3,696.1	3.1	3,294.2	3.2	
Total farm products	84,523.9	69.9	76,642.0	73.2	
Supplies purchased:					
Crop protectants	4,078.6	3.4	3,165.7	3.0	
eed	7,186.4	5.9	5,405.3	5.2	
Fertilizer	7,764.4	6.4	5,170.3	4.9	
Petroleum	8,767.7	7.3	6,616.3	6.3	
Seed	1,019.8	0.8	731.8	0.7	
Other supplies ⁵	4,147.0	3.4	3,462.0	3.3	
Total farm supplies	32,963.8	27.3	24,551.4	23.5	
Services provided: Trucking,					
cotton ginning, storage, grinding,					
ocker plants, misc. ⁶	3,473.2	2.9	3,473.2	3.3	
•	120,960.9	100.0	104,666.6	100.0	

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

³ Deflated 1997 cooperative business volume was \$109.4 billion, up 3 percent from the actual \$106.2 billion in 1996. The \$109.4 billion was derived by deflating farm products marketed by indices of prices received for all farm products and farm supplies (inputs) and service income by the index of prices paid by farmers for production items.

² Less than 0.05 percent.

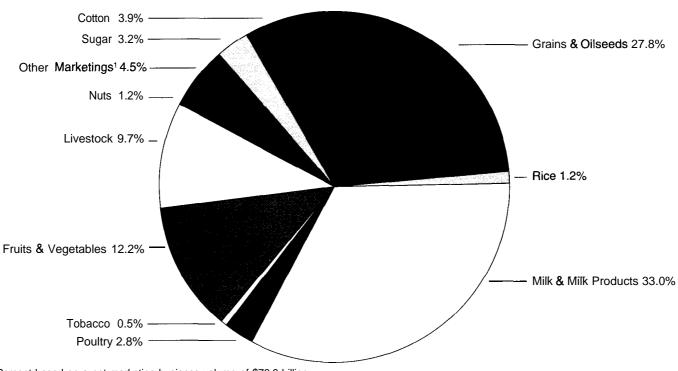
³ Includes eggs, turkeys, **ratite**, squab, and related products.

⁴ 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.

⁵ Includes building materials, containers and packaging supplies, farm machinery and equipment, meats and groceries, automotive supplies, hardware, chicks, and other supplies not separately classified.

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

Figure 8— Relative Importance of Farm Products Marketed by Cooperatives, 1998



Percent based on a net marketing business volume of \$76.6 billion.

milk products and fruits and vegetables were up compared with 1997, because of a significant drop in cooperatives' grain business volume in 1998.

Gross volume of all farm supplies handled by cooperatives was \$33 billion, down 11.1 percent from \$37.1 billion in 1997. Net farm supply volume of nearly \$24.6 billion, down 2.5 percent from \$25.2 billion, accounted for 23.5 percent of the total net business volume.

The leading farm production supplies handled by cooperatives in terms of net business volume were petroleum, 26.9 percent; feed, 22 percent; and fertilizer, 21.1 percent (figure 9). While sales of "other" supplies, seed, and crop protectants were up in 1998, feed, fertilizer, and petroleum were down.

Receipts for services provided by marketing, farm supply, and related-service cooperatives, plus other income, were down 4.8 percent to \$3.5 billion. Service receipts and other income represented 3.3 percent of total net business volume.

Net Income

Total net income (adjusted for losses and before taxes) for all cooperatives in 1998 was \$1.7 billion, including intercooperative dividends and refunds (table 8). Cooperatives operating strictly on a pooling

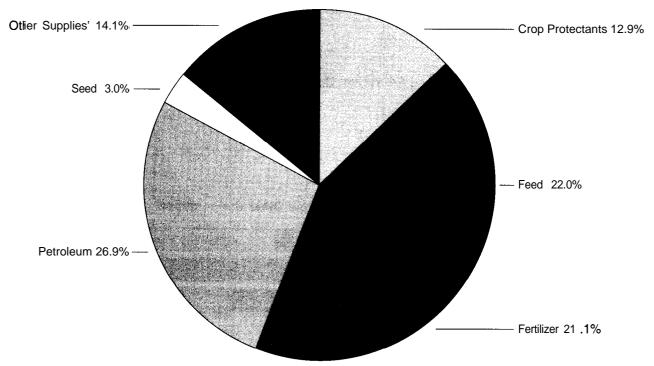
basis were excluded. Net income was down 24.7 percent from the \$2.3 billion in 1997. Patronage refunds received from other cooperatives, including CoBank and the St. Paul Bank for Cooperatives, totaled \$573 million, down 24.3 percent from \$757.1 million in 1997.

Marketing cooperatives' total net income of \$1,017.5 million was down 22.5 percent from the \$1,313.3 million generated in 1997. Losses by poultry, fruit and vegetable, sugar, and miscellaneous marketing cooperatives were the major factor. Grain and oilseed (43.4 percent) and dairy (43.9 percent) cooperatives together accounted for most (87.3 percent) of marketing cooperatives' net income and a majority (51 percent) of total net income (figure 10).

Total net income of farm supply cooperatives was \$578.8 million in 1998, down 30.6 percent from \$834.6 million in 1997. And they accounted for 33.2 percent of cooperatives' total net income in 1998, compared with 36.1 percent in 1997. Income from their own operations, excluding patronage refunds from other cooperatives, CoBank, and the St. Paul Bank for Cooperatives, was \$301.6 million, down 37.3 percent from \$480.8 million in 1997.

¹ Includes dry beans and peas, wool and mohair, fish, and miscellaneous marketings.

Figure 9— Relative Importance of Farm Supplies Handled by Cooperatives, 1998



Percent based on a net farm supply business volume of \$24.6 billion.

Principal product(s) marketed and major function	co-ops'	Total net income	Income from own operations	Income from other co-ops
	Number		Milliondollars	
Products marketed:				
Cotton	15	64.0	60.7	3.4
Dairy	228	447.2	414.9	32.3
Fruits & vegetables	249	76.9	61.3	15.6
Grains and oi lseeds				
excluding cottonseed	964	441.4	241.3	200.1
Livestock and poultry	98	-71.2	-80.0	8.8
Rice	17	7.3	5.4	1.9
Sugar	52	-12.1	-15.5	3.4
Other products ³	240	64.0	60.2	3.9
Total marketing	1,863	1 ,017.5	748.2	269.3
Total farm supply	1,347	578.8	301.6	277.2
Total related-service	441	146.0	119.5	26.5
Combined total	3,651	1,742.3	1,169.3	573.0

¹ Includes number of cooperatives operating on a strictly pooling basis, but not their pool proceeds.

¹ Includes building materials; tires, batteries, and accessories; equipment; animal health products; pet food; semen; hardware; food; clothing; etc.

² Includes patronage refunds from CoBank and the St. Paul Bank for Cooperatives.

³ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

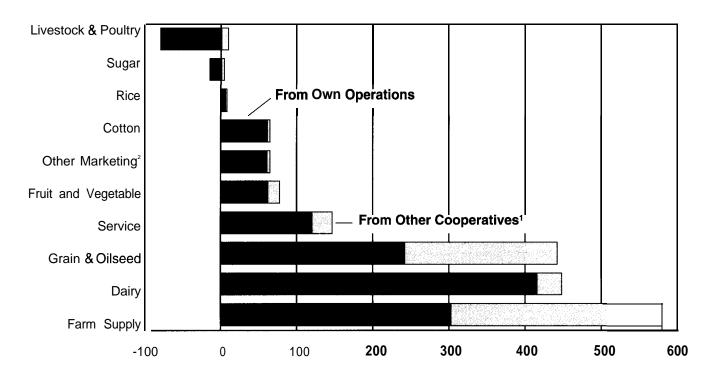


Figure 10- Total Net Income or Loss by Cooperative Type, 1998

Farmer cooperatives' net income from own operations in 1998 totaled \$1,169.3 million, down 24.9 percent from \$1,557.2 million. Nearly 32.9 percent, or \$573 million, of total net income (\$1,742.3 million) was generated by other cooperatives, CoBank, and the St. Paul Bank for Cooperatives, down 24.3 percent from \$757.1 in 1997. However, the proportion generated by other cooperatives in 1997 was about the same, 32.7 percent. Marketing cooperatives' net income from other cooperatives, including CoBank and the St. Paul Bank for Cooperatives, totaled \$269.3 million and accounted for 26.5 percent of their total, down from \$368.8 million and 28.1 percent in 1997. Grain cooperatives' net income from other cooperatives totaled \$200.1 million, or 45.3 percent of their total, down from \$233.6 million, or 53.5 percent in 1997.

Income before adjusting for losses was \$2,122.2 million. Losses by an estimated 601 cooperatives totaled \$379.9 million in 1998, up from \$162.8 million in 1997. Number of cooperatives with losses was up significantly, from 506 to 601. The increased losses came from marketing and related-service cooperatives.

Marketing cooperative losses totaled \$338 million in 1998, compared to \$119.5 million in 1997. Related-service cooperative losses totaled \$20.6 million, com-

pared with \$4.8 million. Losses among farm supply cooperatives were down, \$21.3 million versus \$38.5 million in 1997.

Balance Sheet

Combined assets for all farmer cooperatives totaled nearly \$46.6 billion in 1998, up 5.8 percent from \$44 billion in 1997 (table 9). Assets of cooperatives, excluding intercooperative investments, were up 6.2 percent to \$41.9 billion, compared with \$39.4 billion in 1997.

Total liabilities were \$26.6 billion, up 4.5 percent from \$25.5 billion in 1997. Net worth, or member and patron equity, was \$20 billion, up 7.6 percent from \$18.5 billion in 1997. The proportion of total assets financed by member and patron equity increased to 42.9 percent from 42.1 percent.

Net worth, or member and patron equity, for all marketing cooperatives totaled \$12.7 billion, up 7.5 percent from 1997. Marketing cooperatives accounted for 63.4 percent of farmer cooperatives' combined net worth, down slightly from 63.5 percent in 1997. The net worth figure for farm supply cooperatives was 33.9 percent of the total, up from 33.5 percent. For marketing cooperatives, the highest percentage of total assets represented by net worth shown in figure 11 (50.6 per-

¹ Includes dividends and patronage refunds from other farmer cooperatives, CoBank, and the St. Paul Bank for Cooperatives.

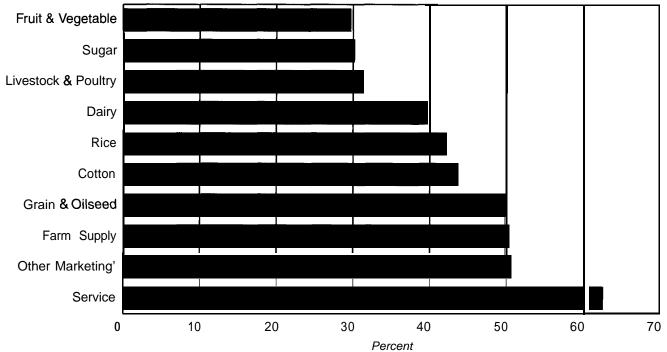
² Includes drv bean and pea, nut. tobacco. wool and mohair. fisherv. and other miscellaneous marketina cooperatives.

Table 9— Combined balance sheet data for farmer cooperatives, 19981

Principal product(s) marketed and major function	co-ops	Total assets	Total liabilities	Net worth
	Number		Milliondollars	
Products marketed:				
Cotton	15	831.2	468.7	362.5
Dairy	228	7,457.2	4,525.2	2,932.0
Fruits & vegetables	249	5,511.8	3,876.3	1,635.5
Grains and oilseeds,				
excluding cottonseed	964	8,035.2	4,136.7	3,898.6
Livestock and poultry	98	4,503.2	3,093.6	1,409.6
Rice	17	588.9	341.1	247.8
Sugar	52	2,070.7	1,444.4	626.4
Other products ²	240	3,040.4	1,502.4	1,538.0
Total marketing	1,863	32,038.6	19,388.3	12,650.3
Total farm supply	1.347	13,657.9	6,894.3	6,763.6
Total related-service	441	863.4	323.3	540.1
Combined total	3,651	46,559.9	26,605.9	19,954.0

¹ Totals may not add due to rounding.

Figure 11- Percentage of Cooperatives' Assets Financed by Net Worth, by Cooperative Type, 1998



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

 $^{^{\}rm 2}$ Includes $\dot{\text{dry}}$ edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

cent) was for those marketing primarily "other" products. The lowest, 29.7 percent, was for cooperatives marketing primarily fruits and vegetables. Marketing and farm supply cooperatives had 39.5 percent and 49.5 percent, respectively, of their assets financed by net worth. Both were up from 1997.

Of the \$46.6 billion in total assets, marketing cooperatives accounted for \$32 billion, up 5.9 percent from 1997. Cooperatives primarily handling grains and oilseeds (excluding cottonseed) had total assets of \$8 billion in 1998, slightly up from nearly \$8 billion in 1997. Among the marketing cooperatives, those with primarily grain also maintained the largest proportion of their assets as investments in other cooperatives in both 1998 (15.5 percent) and 1997 (14.6 percent). Dairy cooperatives had 9.6 percent of their assets invested in other cooperatives (table 10).

Assets of marketing cooperatives, excluding investments in other cooperatives, CoBank and the St. Paul Bank for Cooperatives, were \$29.5 billion, up 5.9 percent from \$27.8 billion in 1997.

Farm supply cooperatives had total assets of \$13.7 billion, compared with \$12.9 billion in 1997, up 6.1 percent. Excluding intercooperative investments, assets were up 7.6 percent to \$11.7 billion from 10.8 billion in 1997.

Selected Financial Ratios

Financial ratios express relationships between items in the financial and income statements of a business operation and help in analyzing a cooperative's economic and financial situation.

Financial ratios can indicate problem areas. While they can't solve problems, they can serve as guidelines for planning 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. Ratio interpretation is largely subjective.

Five financial ratios were selected to give some indication of cooperative performance or financial condition-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 shows a cooperative's ability to meet long-term financial obligations. The total sales-to-asset ratio (asset turnover ratio) indicates how efficiently a cooperative is using its assets. The current ratio (current assets divided by current liabilities) best measures a cooperative's ability to meet short-run obligations.

Table 11 lists the values of these ratios for the cooperatives reporting to RBS. Extreme high and low values were excluded so those used would be more

Principal product(s)	0	Assets of own	Investments in	Total	Investments in	
marketed and major function	Co-ops ²	operations	other co-ops 3	assets	other co-ops as percent of total	
	Number		Million dollars		Percent	
Products narketed:						
Cotton	15	803.7	27.5	831.2	3. 3	
Dairy	228	6,744.3	712.9	7,457.2	9. 6	
Fruits & vegetables	249	5,329.2	182.5	5,511.8	3. 3	
Grains and oilseeds						
excluding cottonseed	964	6,787.9	1,247.3	8,035.2	15.5	
Livestock and poultry	98	4,205.1	298. 1	4,503.2	6.6	
Rice	17	573. 4	15. 5	588. 9	2.6	
Sugar	52	2,029.1	41.7	2,070.7	2.0	
Other products⁴	240	2,978.2	62. 2	3,040.4	2.0	
Total farm products	1, 863	29, 451. 0	2,587.6	32,038.6	8.1	
Total farm supplies	1, 347	11,657.9	2, 000. 0	13,657.9	14.6	
Total selected services	441	774.7	88. 7	863. 4	10.3	
Combined total	3,651	41,883.6	4,676.3	46,559.9	10.0	

¹ Totals may not add due to rounding.

² Many cooperatives have multiproduct and multifunctional operations. Most are classified according to predominant commodity or function, as indicated by business volume.

³ Also includes investments in CoBank and the St. Paul Bank for Cooperatives.

⁴ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Type of coop and asset group (mil. dol.)	Return on asset.9	Net worth to assets ³	Return on sales⁴	Sales to assets ⁴	Current ratio ⁵
		Percent		– – – – Nur	nber -
otton	7.7	43.3	2.1	3.7	1.4
Less than 25	8.4	35.4	2.7	3.1	1.4
\$25 - 99.99	1.5	48.3	0.3	5.2	1.6
\$100.0 and more	9.6	42.9	2.9	3.3	1.3
airy	5.9	39.5	1.6	3.7	1.3
Less than \$0.5 6	2.8	60.9	0.5	5.3	1.9
\$0.5 - \$.99	7.1	57.3	1.4	4.9	1.9
\$1 .o = \$2.49	4.8	55.2	0.9	5.2	1.5
\$2.5 - \$24.99	7.0	33.8	1.1	6.4	1.2
\$25.0 - \$99.99	9.0	38.0	1.7	5.3	1.2
\$100.0 and more	5.4	39.9	1.6	3.4	1.3
	2.6	20.0	1 4	1.0	
ruit and vegetable	2.6	29.0	1.4	1.9	1.3
Less than \$0.5	8.1	53.7	0.5	15.8	1.7
\$0.5 - \$.99	6.8	67.9	1.9	3.5	2.3
\$1 .o - \$2.49	6.8	58.3	1.7	4.0	1.6
\$2.5 • \$24.99	10.7	42.5	2.8	3.8	1.2
\$25.0 - \$99.99	1.4	27.4	0.8	1.7	1.1
100.0 and more	2.6	29.0	1.4	1.9	1.3
ain and oilseed ⁷	5.6	48.6	1.7	3.3	1.3
_ess than \$0.5	-0.3	87.7	-0.1	4.5	5.1
60.5 - \$.99	5.7	78.0	1.4	4.0	3.2
1 .0- \$2.49	4.5	66.8	1.2	3.7	1.9
\$2.5 - \$24.99	5.7	52.7	1.9	3.0	1.3
525.0 - \$99.99	5.2	43.3	2.0	2.6	1.2
100.0 and more	6.0	40.3	1.2	5.0	1.1
vestock	1.8	32.7	0.5	3.4	1.3
_ess than \$2.49	2.2	76.5	0.1	16.1	2.7
2.5 - \$24.99	1.4	26.7	0.1	9.8	1.2
625.0 and more	1.8	32.8	0.6	3.2	1.3
ut	1.7	38.4	1.0	1.8	1.7
oultry	-11.6	22.8	-3.9	3.0	1.7
ce	1.3	44.3	-3.9 0.6	2.3	1.3
ıgar	-0.7	36.8	-0.7	1.0	1.2
bacco	1.4	25.8	1.6	0.8	1.1
sc. marketing shery	1.6 -0.2	52.9 48.8	0.7 -0.1	2.3 2.3	1.5 1.3
·					
oss than \$0.5	4.0	47.8	2.4	1.7	1.5
ess than \$0.5	1.2	73.2	0.3	3.8	2.7
0.5 - \$.99	4.0	75.0	1.9	2.1	2.9
1 .o = \$2.49	5.2	71.3	2.5	2.1	2.3
2.5 = \$24.99	6.1	59.9	3.0	2.0	1.5
25.0 - \$99.99	5.6	45.2	2.6	2.1	1.3
3100.0 - \$499.99	3.6	43.8	'1.5	2.4	1.4
500.0 and more	3.0	42.9	2.4	1.3	1.4
ficial insemination	8.5	76.9	7.2	1.2	3.0

Continued

Table 11— Selected financial ratios for cooperatives, 19981 (continued)

Type of co-op and asset group (mil. dol.)	Return on assets2	Net worth to assets ³	Return on sales⁴	Sales to assets⁴	Current ratio5
<u> </u>		Percent		Nur	nber
Cotton gins	20.1	59.7	14.4	1.4	1.3
Less than \$0.5	5.1	30.8	1.3	4.0	2.0
\$0.5 - \$.99	11.9	65.0	6.9	1.7	1.6
\$1 .o - \$2.49	16.7	66.9	10.4	1.6	1.7
\$2.5 and more	22.7	56.2	18.2	1.2	1.2
Other service ⁸	14.6	57.6	17.1	0.9	1.5
Less than \$0.5	9.7	91.9	7.2	1.4	6.5
\$0.5 -\$.99	6.8	58.1	6.0	1.1	1.6
\$1.0- \$2.49	13.3	55.9	10.5	1.3	1.7
\$2.5 and more	16.1	55.6	24.9	.6	1.2

Based on cooperatives reporting. Excludes strictly pooling cooperatives. Ratios were calculated by summing the individual items and dividing. The same cooperatives were included in each group to calculate all five ratios. Outliers (extreme values) not representative of the group were excluded.

representative of the cooperatives reporting. Ratios are also shown by selected asset category for those cooperatives where sufficient information was available. These ratios offer cooperative leaders a general barometer to use in comparing their operations with others of the same type (and/or size).

The return on assets (net income/assets) varied considerably. It was negative for poultry, sugar, fishery, and small grain cooperatives. The ratio (20.1) was highest for cotton ginning cooperatives. By size group, fruit and vegetable and farm supply cooperatives with assets in the range of \$2.5 million to \$24.9 million had the largest return on assets. For dairy, it was highest for those cooperatives with assets of \$25 million to \$99.9 million. Among grain cooperatives, the largest return came from the largest cooperatives.

The net worth-to-assets ratio ranged from a low of 22.8 percent for poultry cooperatives to a high of 91.9 percent for the smallest "other" service cooperatives. Generally, as cooperatives become larger and/or do more processing, a declining percentage of their assets is financed by members, resulting in a lower net worth-to-assets ratio.

The return on sales (net income/total sales) ranged from a negative 3.9 percent for poultry cooperatives to a high of 24.9 percent for the largest "other" service cooperatives. Few cooperatives generated a return on sales above 3 percent (only 10 of the 55 groups shown in table 11).

The sales-to-assets ratio ranged from a high of 16.1 for the small livestock cooperatives to a low of 0.6 for the largest "other" service cooperatives. Among fruit and vegetable, grain, livestock, and cotton ginning cooperatives, the ratio tended to decrease as size of 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 the cooperative. Most of these cooperatives are less involved in manufacturing or processing than the larger marketing cooperatives.

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

² Includes net income before any income taxes are deducted. Calculated by dividing net income by total assets. Usually referred to as the return on assets.

Net worth, or member equity, is the book value of the assets owned by members. The ratio was calculated by dividing total net worth by total assets.

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

⁵ The current ratio was derived by dividing current assets by current liabilities. These data were taken from annual reports where provided.

⁶ Includes bargaining cooperatives.

⁷ Excludes cottonseed.

⁸ Includes cooperatives providing primarily services related to storage, transportation, livestock shipping, and rice drying.

The current ratio (current assets/current liabilities) ranged from a low of 1.1 for fruit and vegetable cooperatives with assets of \$25 million to \$99.9 million, the largest grain cooperatives, and tobacco cooperatives to 5.1 for the smallest grain and oilseed cooperatives. Smaller cooperatives' current liabilities are generally low, but become larger in relation to current assets as business grows.

Table 12-Number of farmer cooperatives, 1989-98

Period ¹	Marketing	Farm supply	Service	Total
		Numb	er	
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
1997	1, 941	1, 386	464	3, 791
1998	1, 863	1, 347	441	3, 651

¹ For years before 1989, see Cooperative Historical Statistics, CIR 1, Section 26, USDA, Revised April 1998. Cotton ginning cooperatives, livestock shipping associations, and rice drying cooperatives were reclassified from marketing to service in 1989, 1992, and 1993, respectively.

III-Cooperative Trends, 1989-98

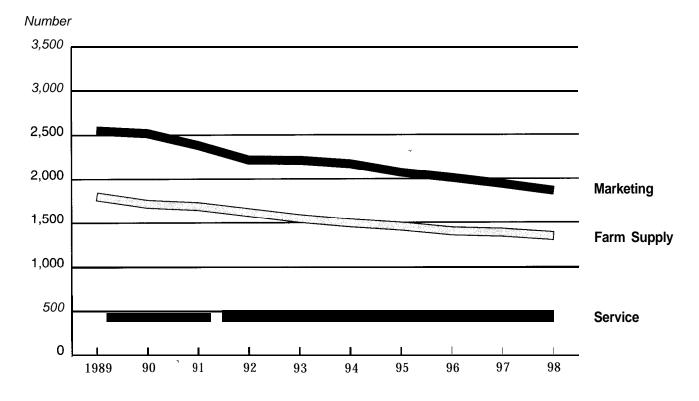
Although the number of cooperatives decreased during the past decade, their business volume increased until recent years. Cooperatives continue to adjust to the changing economic environment through dissolution, merger, consolidation, acquisition, and the sale of assets. In some cases, farmers organized newgeneration cooperatives to become involved in value-added activities. In 1989, the net business volume of 4,799 cooperatives totaled \$72.1 billion. A decade later, that volume generated by 3,651 cooperatives was \$104.7 billion.

Number of Cooperatives

The total number of marketing, farm supply, and related-service cooperatives declined from 4,799 in 1989 to 3,651 in 1998 (table 12 and figure 12). Marketing cooperatives declined from 2,550 to 1,863 and farm supply cooperatives from 1,803 to 1,347. Number of service cooperatives decreased from 446 to 441.

From 1989 through 1998, 1,796 cooperatives (about 180 per year), were removed from RBS' list of farmer cooperatives. Of those, 40.1 percent were dis-

Figure 12— Farmer Cooperatives in the United States, 1989-98



solved, 33.5 percent were merged or consolidated, 15 percent were acquired by other cooperatives or investor-owned firms, and the remaining 11.4 percent were removed for other reasons (figure 13).

Even while cooperatives were disappearing from RBS' list, new ones or ones not previously on the list were added. From 1989 through 1998,524 cooperatives (about 52 per year) were added. During 1998, 55 cooperatives were added to RBS' list of cooperatives, the largest increase since 1993 when 65 were added.

Grain and Farm Supply Branches

In 1992, 2,861 grain and farm supply cooperatives had an estimated 4,644 branches, 1,867 owned by grain cooperatives and 2,777 by farm supply cooperatives. In 1998, grain and farm supply cooperative numbers dropped to 2,311, but branches had increased to 5,617 (table 13 and figure 14).

Average number of branches per cooperative was 1.6 in 1992 and 2.4 in 1998. Larger cooperatives accounted for the most branches, particularly among the farm supply cooperatives. For cooperatives with

assets of \$25 million or more in 1998, 30 farm supply cooperatives had an estimated 1,672 branches and 48 grain cooperatives had 716 branches.

Memberships

Memberships in farmer cooperatives, 4.1 million in 1989, dropped to 3.4 million in 1998 (table 14 and figure 15). The long-term decline, in part, reflects the decreasing number of farms and farmers in the United States. Many farmers are members of more than one cooperative and each membership is counted. Consequently, number of memberships exceeds the number of farmers. Total membership duplication cannot be eliminated with current reporting methods.

Member classification depends on the type of cooperative used and may not be related to the member's product(s) 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 one or more production items. A member's business with the cooperative, therefore, may not be in the group that represents the cooperative's major business volume (the criterion for

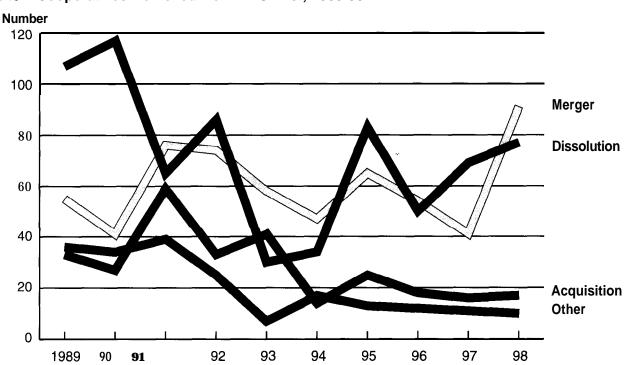


Figure 13— Cooperatives Removed from RBS' List, 1989-98

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

classifying cooperatives in this report). The membership, however, will be included arbitrarily in that classification.

During the past decade, memberships in relatedservice and marketing cooperatives decreased at nearly twice the rate of memberships in farm supply cooperatives. Memberships in marketing cooperatives dropped 458,000, or 24.7 percent, while memberships in farm supply cooperatives decreased 261,000, or 12.8 percent.

Employees

Farmer cooperatives had an estimated 173,791 full-time employees in 1998, up from 172,199 in 1997, but still down from the 1995 peak of 175,399 (table 15). In 1997, it appeared that the number of full-time

employees was declining in marketing cooperatives and increasing in farm supply cooperatives, but 1998 survey results showed employee numbers were up in marketing and farm supply cooperatives, but down in related-service cooperatives.

Overall, total number of full-time employees averaged 174,241 from 1994 to 1998. Although the number of full-time employees was up in 1998, it was still below the five-year average. The major change during this period was the significant increase in number of full-time employees by the miscellaneous marketing cooperatives, from 5,795 in 1994 to 9,191 in 1997.

Table 13— Estimated number of branches operated by grain and farm supply cooperatives, 1992-98

		H22	et Group (million doll	a13)	
Year	Less than 5	5 - 9.9	10 - 24.9	250r more	Total
		Nun	nber of Grain Cooperat	tives	
1992	902	211	114	16	1, 243
1993	808	233	131	21	1, 193
1994	772	226	138	24	1, 159
1995	658	223	174	35	1, 090
1996	618	229	176	43	1, 066
1997	616	196	155	47	1, 014
1998	550	216	150	48	964
	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, 320
1997	364	463	717	706	2, 250
1998	292	517	774	716	2, 299
		Number	of Fan Supply Coope	ratives	
1992	1, 381	176	45	16	1, 618
1993	1, 286	183	64	14	1, 547
1994	1, 203	199	97	19	1, 490
1995	1, 134	211	109	16	1, 458
1996	1, 064	213		17	1, 403
1997	1, 022	232	109	23	1, 386
1998	928	277	112	30	1, 347
			Number 208 3ranches	8	
1992	724	482	297	1, 363	2, 777
1993	642	455		1, 320	2, 714
1994	610	468	344	1, 335	2, 787
1995	571	502	460	1, 396	2, 929
1996	542	523	526	1, 438	3, 029
1997	481	579	576	1, 576	3, 183
1998	528	548	570	1,672	3, 318

Table 14— Memberships in marketing, farm supply, and service cooperatives, 1989-98

Marketing	Farm supply	Service	Total
	1,000)	
1,856	2,035	243	4,134
1,882	2,006	232	4,119
1,842	2,025	191	4,059
1,839	2,020	212	4,072
1,830	1,977	216	4,023
1,805	1,936	245	3,986
1,712	1,846	210	3,767
1,682	1,795	187	3,664
1,498	1,743	183	3,424
1,398	1,774	181	3,353
	1,856 1,882 1,842 1,839 1,830 1,805 1,712 1,682 1,498	1,856 2,035 1,882 2,006 1,842 2,025 1,839 2,020 1,830 1,977 1,805 1,936 1,712 1,846 1,682 1,795 1,498 1,743	1,000 1,856 2,035 243 1,882 2,006 232 1,842 2,025 191 1,839 2,020 212 1,830 1,977 216 1,805 1,936 245 1,712 1,846 210 1,682 1,795 187 1,498 1,743 183

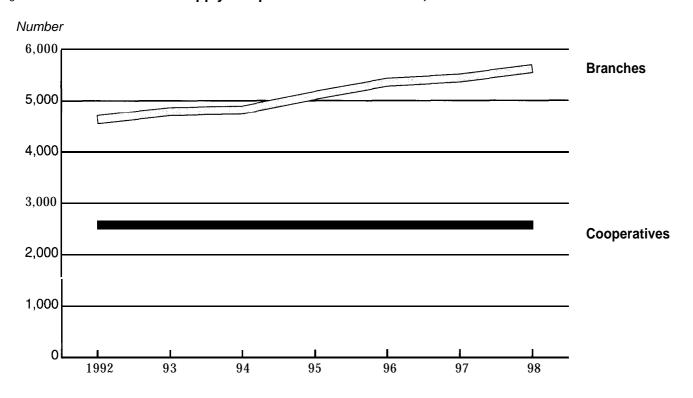
¹ For years before 1989, see Cooperative *Historical Statistics*, CIR 1, Section 26, USDA, Revised April 1998. Cotton ginning cooperatives, livestock shipping associations, and rice driers were reclassified from marketing to service in 1989, 1992, and 1993, respectively.

Business Volume

Net cooperative business, unadjusted for price change, increased from \$72.1 billion in 1989 to \$104.7 billion in 1998 (table 16). When adjusted,4 net business totaled \$102.1 billion in 1998 (figure 16). Consequently, the difference between actual and real net business volume in 1998 was \$2.6 billion. The real net business volume was near the actual value in 1998 due mainly to a decrease in prices received for farm products from 1989-98. Prices received for all farm commodities dropped 2.9 percent, while prices paid for production supplies increased 21.1 percent.

Marketing sales of four major commodity groups-dairy; grains and oilseeds, excluding cotton-seed; fruits and vegetables; and livestock-decreased slightly from 83.5 percent in 1989 to 82.8 percent in 1998. In 1989 and a decade later, net volume (among commodity groups) was highest in dairy (\$18.3 billion). In net volume terms, dairy was \$25.3 billion and

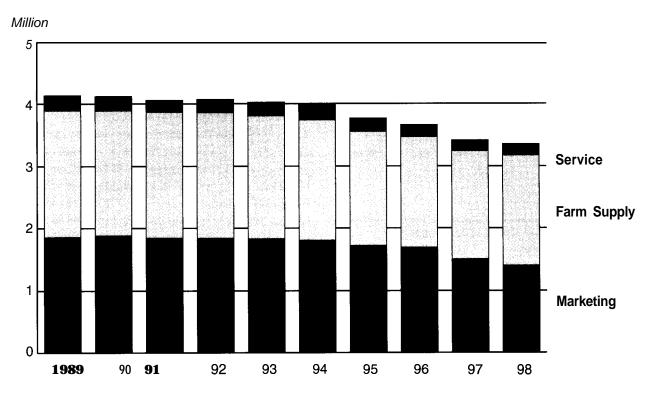
Figure 14— Grain and Farm Supply Cooperatives and Branches, 1992-98



² Number of memberships in farm supply cooperatives was revised.

 $^{^4}$ Marketing sales was deflated by the index of producer prices received for "all farm products" (1996 = 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 (1996 = 100).

Figure 15— Cooperatives' Memberships by Function, 1989-98



			Full-time Employees		
Commodity	1994	1995	1996	1997	1998
			Number		
Cotton	2,105	2,136	1,787	1,995	1,844
Dairy	31,261	29,828	27,621	28,323	27,056
Fruits & vegetables	21,201	24,944	26,456	22,847	23,734
Grains & oilseeds	24,759	24,811	25,981	23,538	23,873
Livestock, & poultry	26,408	28,635	. 28,453	26,399	28,031
Rice	2,796	2,785	2,636	2,713	2,655
Sugar	3,264	3,422	3,482	3,473	4,402
Other products	5,795	7,590	7,109	9.191	8.474
Marketing	117,589	124,151	123,525	118,479	120, 069
Farm supply	50,524	45,302	45,566	47,870	48,171
Service	6,906	5,946	5,704	5,850	5,551
Total	175,019	175,399	174,795	172,199	173,791

grains and oilseeds \$21.3 billion in 1998. In 1997, grains and oilseeds led commodity groups due to high grain prices (figure 17).

Milk and milk product sales showed the strongest growth in the 1989-98 decade. Prior to 1997, grain and oilseed sales showed a strong upward trend, but subsequently dropped.

In the farm supply group, petroleum, feed, and fertilizer were especially important. They accounted for 72.9 percent of cooperatives' total farm supply sales in 1989 and 70 percent in 1998. The drop reflected

Table 16— Cooperatives' net business volume, 1989 and 1998¹

1989 and 1998			
	Net Business Volume		
Function	1989	1998	
	Million dollars		
Products marketed:			
Beans and peas (dry edible)	149.6	187.2	
Cotton	1,989.3	2,961 .I	
Dairy	18,339.0	25,329.4	
Fruits and vegetables	7,888.0	9,391.2	
Grains and oilseeds 2/	14,189.2	21,290.9	
Livestock	4,046.2	7,418.1	
Nuts	834.9	900.7	
Poultry	1,193.9	2,1 37.3	
Rice	764.8	932.0	
Sugar	1776.8	2,444.7	
Tobacco	610.9	348.5	
Wool and mohair	33.4	6.8	
Other products	1,431.1	³ 3,294.2	
Total farm products	53,247.2	76,642.0	
Supplies purchased:			
Crop protectants	1,428.1	3,165.7	
Feed	4,224.1	5,405.3	
Fertilizer	3,337.2	5,170.3	
Petroleum	4,768.7	6,616.3	
Seed	573.0	731.8	
Other supplies	2,576.0	3,462.0	
Total farm supplies	16,907.2	24,551.4	
Services provided: Trucking, cotton ginning, storage, grinding, locker			
plants, misc	1,974.3	3,473.2	
Total business	72,128.7	104,666.6	

Excludes intercooperative business volume. Totals may not add due to rounding.

increased sales of crop protectants. In 1989, they accounted for 8.4 percent of farm supply sales versus 12.9 percent in 1998.

The trend for cooperatives' sales of petroleum, feed, fertilizer, and crop protectants, except for 1998, was upward, while seed sales remained fairly stable (figure 18). In 1998, however, feed, petroleum, and fertilizer sales dropped, due mainly to lower prices.

Net marketing of farm products totaled \$53.2 billion in 1989 and increased every year except in **1991** and 1997-98. In 1998, net business volume of farm products marketed dropped to \$76.6 billion from \$77.8 billion in 1997 (table 17). Aggregate farm supply sales increased every year, from \$16.9 billion in 1989 to \$25.2 billion in 1997, but then dropped in 1998 to \$24.6 billion. Service receipts increased from \$2 billion in 1989 to \$3.5 billion in 1998, after reaching a high of \$3.6 billion in 1997. In 1990, service receipts were expanded to include other income and revenue.

Gross business volume was \$88.1 billion in 1989, \$121 billion in 1998, and a record high of \$128.1 billion in 1996. The 1996 record increase in business volume (\$15.9 billion) was due mainly to higher prices for grains and oilseeds.

Net Income

Starting with \$1.85 billion in 1989, total net income fluctuated and finally set a record at \$2.36 billion in **1995.** It dipped in 1996, climbed back in 1997, but then significantly dropped to \$1.7 billion in 1998 (table 18 and figure 19).

Net income from own operations and other cooperatives varied, but reflected better economic times in agriculture in the late 1990s compared with conditions in the late 1980s and early 1990s. In 1989, refunds from other cooperatives totaled \$344 million, or 16.6 percent of total net income. In 1998, refunds totaled \$573 million, or 32.9 percent of total net income. However, beginning with 1998, refunds from CoBank and the St. Paul Bank for Cooperatives were also included.

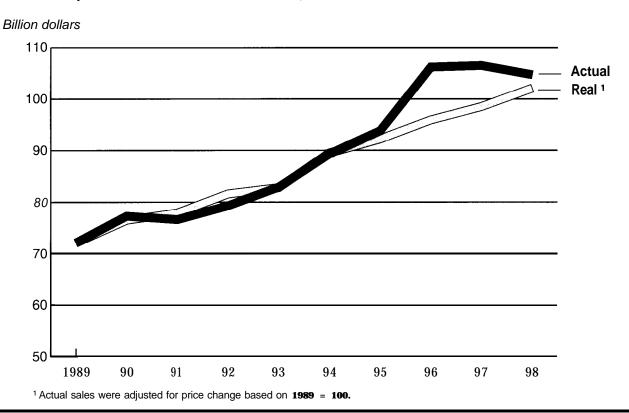
Balance Sheet

Cooperatives' total assets grew by \$16.9 billion from \$29.6 billion in 1989 to \$46.6 billion in 1998 (table 19 and figure 20), reflecting added investments in their own operations and investment in other cooperatives. In 1989, nearly \$3.3 billion (11 percent of total assets) was investments in other cooperatives, including CoBank and Banks for Cooperatives. In 1998, these investments were \$4.7 billion, up \$1.4 billion.

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

³ Includes value of processed oilseeds.

Figure 16— Cooperatives' Net Business Volume, 1989-98



Cooperatives' total liabilities also grew, from \$16.3 billion in 1989 (55.1 percent) to \$26.6 billion, up \$10.3 billion in 10 years.

Total liabilities financed 57.1 percent of total assets in 1998. The strength of a balance sheet, however, depends on the proportion of total assets financed by net worth or equity capital. In 1989, cooperatives' net worth totaled \$13.3 billion and financed 44.9 percent of total assets. By 1998, total net worth reached nearly \$20 billion and financed 42.9 percent. During the decade, the proportion of net worth used to finance total assets dropped to 40.8 percent in 1996. Most would say farmer cooperatives, overall, have a strong balance sheet.

IV-Other Service Cooperatives

In 1998, service cooperatives, other than those directly related to marketing and purchasing, included farm credit system cooperatives, rural telephone cooperatives, rural electric cooperatives, rural credit unions, and dairy herd improvement associations.

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.

By 1999, FCS was represented by 39 Federal Land Bank Associations (FLBAs); 33 Federal Land Credit Associations (FLCAs); 63 Production Credit Associations (PCAs); 1 Agricultural Credit Bank (ACB), (CoBank, ACB); 54 Agricultural Credit Associations (ACAs); 6 Farm Credit Banks (FCBs); and 1 Bank for Cooperatives (BC) (table 20).

The combined assets of FCS for 1998 totaled \$84.1 billion-up 7.7 percent from \$78.1 billion in 1997 (table 21). Net worth was \$12.5 billion, up 7.1 percent from 1997, and net income was \$1.25 billion, down from \$1.27 billion, or 1.3 percent.

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.

Figure 17— Cooperatives' Net Sales of Selected Commodities, 1989-98

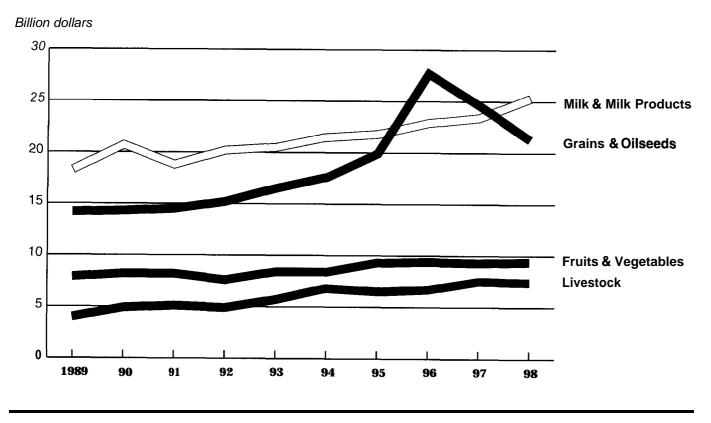


Figure 18— Cooperatives' Net Sales of Selected Farm Supplies, 1989-98



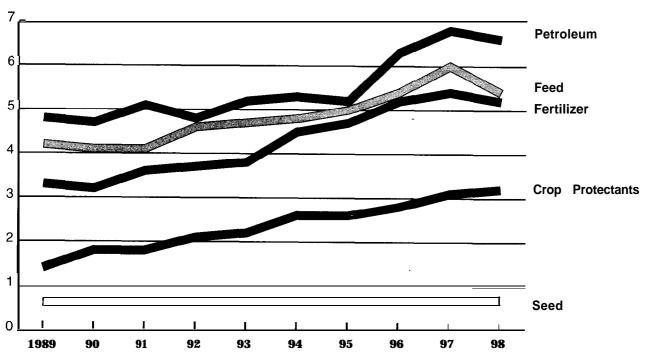


Table 17— Cooperatives' gross and net business volumes, 1989-981

		Gross	volume			Net	volume	
Period ²	Farm products	Farm supplies	Services ³	Total	Farm products	Farm supplies	Services ³	Total
				Billio	n dollars			
1989	60. 3	25. 8	2. 0	88. 1	53. 2	16. 9	2. 0	72.1
1990	64. 1	26. 3	2. 3	92. 7	57.8	17. 1	2. 3	77. 3
1991	61. 4	26. 8	2. 5	90. 8	56. 2	17. 9	2. 5	76. 6
1992	63. 8	27. 0	2. 6	93. 4	58. 2	18. 5	2. 6	79. 3
1993	66. 8	28. 2	2. 7	97. 7	60. 9	19. 2	2. 7	82. 9
1994	72.1	30. 4	3. 0	105. 5	65. 5	20. 8	3. 0	89. 3
1995	77.9	31. 0	3. 3	112. 2	69. 3	21. 2	3. 3	93. 8
1996	90. 3	34. 7	3. 1	128. 1	79. 4	23. 7	3. 1	106. 2
19974	85. 9	37. 1	3. 6	126. 7	77.8	25. 2	3. 6	106. 7
1998	84. 5	33. 0	3. 5	121. 0	76. 6	24. 6	3. 5	104. 7
				Pe	ercent			
1989	68. 4	29. 3	2. 3	100	73. 8	23. 4	2.8	100
1990	69. 1	28. 4	2. 5	100	74. 9	22. 1	3. 0	100
1991	67. 7	29. 5	2. 8	100	73. 3	23. 4	3. 3	100
1992	68. 3	28. 9	2. 8	100	73. 4	23. 4	3. 2	100
1993	68. 4	28. 8	2.8	100	73. 5	23. 2	3. 3	100
1994	68. 4	28. 8	2.8	100	73. 4	23. 3	3. 3	100
1995	69. 5	27. 6	2. 9	100	73. 9	22. 6	3. 5	100
1996	70. 5	27. 1	2. 4	100	74.8	22. 3	2. 9	100
1997	67. 8	29. 3	2. 9	100	73. 0	23. 6	3. 4	100
1998	69. 9	27. 2	2. 9	100	73. 2	23. 5	3. 3	100

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

Of the **33** FLCAs operating on Jan. **1, 1999, 18** were in the AgriBank District and 11 in the Western District. 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 and livestock purchases, and farm buildings and other capital improvements. Of the 63 PCAs, 18 were located in the AgriBank, FCB, District and 18 in the FCB of Wichita territory.

ACAs resulted from the merger of FLBAs or FLCAs with PCAs. ACAs offer both long- and short-term loans. Of the 54 ACAs operating on Jan. 1, 1999, 36 were in AgFirst, FCB, territory and 8 in the AgriBank, FCB, district.

The FCBs provide loans and support services to FLBAs, ACAs, FLCAs, and PCAs within their districts. Combined assets of the six FCBs, one ACB, and one BC

totaled \$76.6 billion in 1998, up from \$71.1 billion in 1997 (table 22). Net worth in 1998 was \$6.1 billion and net loans totaled \$62.6 billion. Net income dropped to \$578 million in 1998 from \$692 million in 1997.

The St. Paul Bank for Cooperatives⁵, the sole BC, is based in Minnesota. It offers a complete line of credit and related financial services to agricultural cooperatives, 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,

² For years prior to 1989, see *Cooperative Historical Statistics*, CIR 1, Section 26, USDA, Revised April 1998. Data for prior years are not entirely comparable due to revisions in statistical procedures.

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

⁴ Revised.

⁵ Merged with CoBank on July 1, 1999.

Table 18— Net income of farmer cooperatives, 1989-98'

Year	From own operations	From other cooperatives ²	Total
		Million dollars	
1989	1,508	343	1,851
1990	1,062	378	1,440
1991	1,152	418	1,570
1992	1,034	406	1,440
1993	985	373	1,358
1994	1,571	392	1,963
1995	1,766	597	2,363
1996	1,475	773	2,248
1997	1,557	757	2,314
1998	1,169	573	1,742

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

ACAs, and other businesses serving rural America. CoBank also finances U.S. agricultural exports and provides international banking services for farmer cooperatives.

The combined assets of the St. Paul Bank and CoBank increased from \$21.3 billion in 1997 to \$22.2 billion in 1998. Net worth totaled nearly \$1.8 billion. As of Dec. 31, 1998, the two banks had net loans of \$17.5 billion and net income of \$153 million, down from \$176 million in 1997 (table 23).

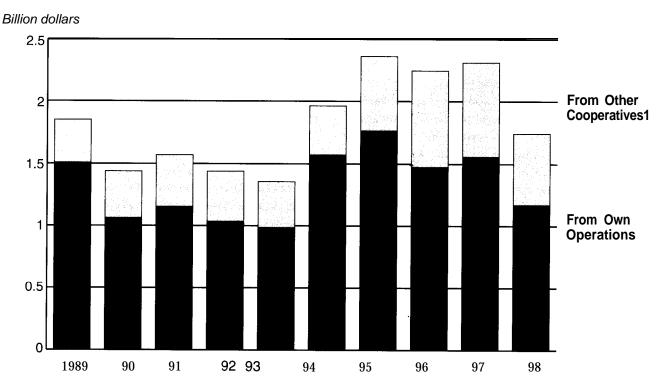
Rural Telephone Cooperatives

As of Dec. 31, 1998, the 220 rural telephone cooperatives borrowing from the Rural Electrification Administration (REA) had revenues of \$1,271 million and 1,419,000 subscriber members. Iowa had the most cooperatives, with 31 (14.1 percent of the total). North Carolina had the most subscriber-members (10.9 percent) of any State (table 24). Texas led all States in revenue, with \$134 million (10.5 percent).

Rural Electric Cooperatives

Rural electric cooperatives dropped in number to 662 from 744 in 1997, and they had 10.8 million consumer members and revenue of \$14.2 billion (table 25).

Figure 19— Cooperatives' Net Income, 1989-98



¹ Includes dividends and patronage refunds from other farmer cooperatives, CoBank, and the St. Paul Bank for Cooperatives.

² Dividends and patronage refunds received from other marketing, farm supply, and related-service cooperatives, CoBank, and Banks for Cooperatives.

Table 19— Combined balance sheet data for farmer cooperatives, 1989-98 **Assets** Investments Total Total from own in other Net liabilities worth Year operations co-ops assets Million dollars 1989 26,389 3,260 29,649 16,337 13,313 1990 26,948 3,076 30,024 16,575 13,449 31,268 17,227 14,040 1991 27,887 3,381 3,027 31,994 17,780 14,213 1992 28,967 1993 2,962 33,446 18,634 14,812 30,484 15,621 1994 32,784 3,176 35,960 20,339 1995 37,046 3,228 40,274 23,643 16,631 1996 39,011 3,577 42,588 25,195 17,392 1997 43,996 25,459 18,537 39,430 4,566 19,954 1998 41,884 4,676 46,560 26,606 Percent of total assets 1989 89.0 11.0 100 55.1 44.9 100 55.2 89.8 10.2 44.8 1990 44.9 1991 89.2 10.8 100 55.1 44.4 1992 90.5 9.5 100 55.6 91.1 8.9 55.7 44.3 1993 100 1994 91.2 8.8 100 56.6 43.4 92.0 8.0 100 58.7 41.3 1995 1996 91.6 8.4 100 59.2 40.8

100

100

10.4

10.0

Texas had the most associations, with 40 (6 percent of the total), while Georgia had the most consumer members, with 1,034 (9.6 percent), and the largest revenue, \$1,393 million (9.8 percent).

89.6

90.0

Rural Credit Unions

1997

1998

The 653 rural credit unions reported 4.4 million members and savings of nearly \$19.9 billion. Wisconsin led all States in number of associations, with 66, or 10.1 percent of the total. California had the most members and credit union savings, with more than 1 million and \$5.4 billion, respectively. California, Wisconsin, and Michigan accounted for more than 2 million memberships (45.9 percent of the total) and nearly \$9.1 billion in savings, or 45.7 percent of the total (table 26).

Dairy Herd Improvement Associations

Dairy Herd Improvement Associations (DHIA) had 34,820 memberships in 1998 (table 27), down from 38,920 in 1997. The DHIAs tested 4.2 million cows in

1998, down from 4.5 million in 1997. Wisconsin (9,014), Pennsylvania (4,748), Minnesota (3,986), and New York (3,014) combined accounted for 59.6 percent of total members, down slightly from 60 percent in 1997. About 822,900 (19.7 percent) of the cows tested were in California, up from 19.4 percent.

42.1

42.9

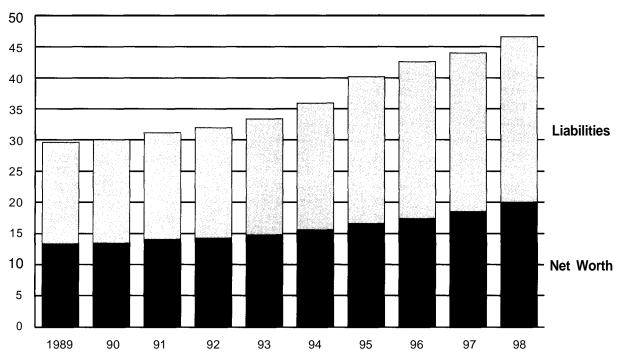
57.9

57.1

¹ Includes investments in other farmer cooperatives, CoBank, and Banks for Cooperatives.

Figure 20— Cooperatives' Net Worth and Liabilities, 1989-98

Billion dollars



District or bank affiliation	FLBA	PCA	ACA	FLCA	ACB	FCB	ВС
			Nu	mber			
CoBank, ACB ²			4		1		
AgFirst FCB		1	36			1	
AgriBank, FCB		18	8	18		1	
FCB of Wichita	19	18		3		1	
FCB of Texas	20	15				1	
Vestern FCB		10	5	11		1	
AgAmerica, FCB		1	1	1		1	
St. Paul BC							1
Total	39	63	54	33	1	6	1

^{- =} No bank affiliation

¹FLBA = 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.

 $^{^{\}rm 2}$ CoBank, ACB serves cooperatives nationwide and ACAs in the former Springfield District.

Source: Farm Credit Administration, Report on the Financial Condition and Performance of the Farm Credit System, 7999 McLean, VA, p. 3.

Table 21— Farm Credit System's combined assets,net worth, and net income, 1994–981

Year	Assets	Net worth	Net income
		Million dollars	
1994	66, 377	8,981	1, 005
1995	71, 439	9, 864	1, 165
1996	74, 917	10, 729	1, 201
1997	78, 144	11, 694	1, 267
1998	84, 139	12, 522	1, 251

¹ Farm Credit System, Annual Information Statements, 1998 Federal Farm Credit Banks, Funding Corporation, Jersey City, NJ., Feb. 24, 1999, p. F3.

Table 22— Farm Credit Banks' combined assets, net worth, net loans, and net income, 1994-981

Year	Assets	Net worth	Net loans	Net income
'		Million	dollars	
1994	61, 305	5, 377	50, 763	468
1995	65, 754	5, 629	54, 525	555
1996	68, 550	5, 798	56, 571	622
1997	71, 124	6, 069	58, 504	692
1998	76, 582	6, 122	62, 552	578

¹ As of December 31 of each year. Consolidated financial for 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, 1998,* McLean, VA, pp. 25-26.

Table 23— Combined assets, net worth, net loans, and net income of the St. Paul Bank for Cooperatives and CoBank, ACB, 1994–981

Year	Assets	Net worth	Net loans	Net income
		Million	dollars	
1994	18, 225	1, 355	14, 954	142
1995	21, 326	1,488	17, 553	175
1996	20, 837	1, 571	16, 871	156
1997	21, 282	1, 674	16, 821	176
1998	22, 185	1, 752	17, 513	153

¹ As of December 31 of each year. Source: CoBank, ACB, *CoBank* 1998 Annual Report Financial Information: Rural America's Cooperative Bank, Englewood, CO, p. 10 and St. Paul Bank, 7998 Annual Report, St. Paul, MN, p. 6.

Table 24— Number, participation, and level of activity of rural telephone¹co-ops by State, Dec. 31, 1998²

State	Cooperatives	Members (subscribers)	Revenue	State	Cooperatives	Members (subscribers)	Revenue
	Number	1,000	Mil. dol.		Number	1,000	Mil. dol.
Alabama	3	27	20	New Hampshire			
Alaska	7	66	74	New Jersey			
Arizona	1	4	7	New Mexico	5	22	55
Arkansas	2	9	9	New York	_		
California				North Carolina	9	154	87
Colorado	5	9	9	North Dakota	10	60	60
Delaware	-			Ohio	5	5	4
Florida	-			Oklahoma	1	10	16
Georgia	4	36	26	Oregon	5	17	16
Idaho	1	2	2	Pennsylvania	3	17	10
Illinois	7	25	25	Operation Community	-	405	
Indiana	8	39	29	South Carolina	5	105	74
Iowa	31	64	54	South Dakota	12	47	49
Kansas	10	65	86	Tennessee	7	141	94
Kentucky	8	104	73	Texas	16	119	134
				Utah	2	18	18
Louisiana		-					
Maine		-		Vermont	_		
Maryland	=	-		Virginia	5	20	14
Michigan				Washington	_		
Minnesota	18	83	62	West Virginia	2	4	4
Mississippi				Wisconsin	11	47	35
Missouri	7	48	48	Wyoming	1	1	3
Montana	7	59	75				
Nebraska	5	10	9				
Nevada				United States	220	1,419	1,271

^{- =} None reported in the State.

¹ Source: Rural Utilities Service, USDA.

² Totals may not add due to rounding.

Table 25— Number, participation, and level of activity of rural electric cooperatives by State, Dec. 31, 1998² Members Members State Cooperatives (subscribers) Revenue State Cooperatives (subscribers) Revenue Number 1,000 Mil. do/ Number Mil. dol. 1,000 Nevada Alabama Alaska New Hampshire Arizona **New Jersey** Arkansas **New Mexico** California New York Colorado North Carolina Delaware North Dakota Florida Ohio Georgia 1,034 1,393 Oklahoma Idaho Oregon Illinois Pennsylvania South Carolina Indiana South Dakota Iowa Kansas Tennessee 1,124 Kentucky Texas Utah Louisiana Vermont Maine Maryland Virginia Michigan Washington Minnesota West Virginia Mississippi Wisconsin Missouri Wyoming Montana

United States

10,751

14,221

Nebraska

¹ Source: Rural Utilities Service, USDA.

² Totals may not add due to rounding.

Table 26— Number, participation, and level of activity of rural credit unions¹ by State, Dec. 31, 1998²

State	Cooperatives	Members	Savings	State	Cooperatives	Members	Savings
	Number	1,000	Mil. dol.		Number	1,000	Mil . dol.
Alabama	10	24	85	Montana	11	54	202
Alaska	1	22	97	Nebraska	17	21	95
Arizona	4	16	50	Nevada	6	51	327
Arkansas	3	7	27	New Hampshire	2	1	1
California	57	1,034	5,398	New Jersey	6	12	20
Colorado	15	21	76	New Mexico	3	46	191
Connecticut	1	1	1	New York	29	160	731
Delaware	1	3	9	North Carolina	13	29	63
Florida	14	102	402	North Dakota	30	100	576
Georgia	11	34	91	Ohio	12	39	67
Hawaii	16	100	587	Oklahoma	4	7	30
daho	9	16	47	Oregon	10	81	323
Ilinois	10	63	259	Pennsylvania	19	31	77
ndiana	17	74	551	Rhode Island	3	57	556
owa	7	7	19	South Carolina	3	9	53
Kansas	16	76	231	South Dakota	7	11	31
Kentucky	7	31	81	Tennessee	8	14	37
₋ouisiana	9	15	41	Texas	32	102	363
Maine .	10	25	97	Utah	9	16	46
Maryland	5	56	264	Vermont	3	19	51
Massachusetts	4	16	61	Virginia	6	47	161
Michigan	26	406	1,271	Washington	14	156	732
Minnesota	35	206	936	West Virginia	3	4	10
Vississippi	4	14	41	Wisconsin	66	599	2,415
Missouri	6	19	59	Wyoming	2	3	5
				United States ³	653	4,439	19,870

¹ Source: Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.)

² Totals may not add due to rounding.

³ Includes Puerto Rico with 37 cooperatives, 377,711 members, and \$1.9 billion in savings.

Table 27— Number, participation, and level of activity of dairy herd improvement associations 1 by State, Dec. 31, 1998²

State	Members (herds)	cows tested	State	Members (herds)	cows tested
	Number	1, 000		Number	1.000
Alabama	72	11.9	Montana	60	7.2
Alaska	1	(3)	Nebraska	267	33.7
Arizona	61	75.0	Nevada	19	9.3
Arkansas	90	6.7	New Hampshire	118	10.8
California	1,135	622.9	New Jersey	92	8.1
Colorado	88	37.5	New Mexico	27	36.9
Connecticut	129	15.4	New York	3,014	327.7
Delaware	34	4.4	North Carolina	255	41.1
Florida	113	59.1	North Dakota	95	9.3
Georgia	238	54.1	Ohio	1,252	104.4
Hawaii	5	2.5	Oklahoma	160	20.8
daho	240	73.6	Oregon	278	50.7
llinois	744	57.7	Pennsylvania	4,748	321.3
ndiana	581	47.7	Rhode Island	8	.5
owa	1,501	114.5	South Carolina	89	17.2
Kansas	369	34.9	South Dakota	327	29.7
Kentucky	318	27.0	Tennessee	292	35.0
_ouisiana	156	21.5	Texas	340	130.1
Maine	178	15.8	Utah	256	46.2
Maryland	460	40.1	Vermont	568	56.3
Massachusetts	137	11.9	Virginia	568	72.6
Michigan	1,121	143.5	Washington	288	73.9
Minnesota	3,986	302.2	West Virginia	75	7.8
Mississippi	89	14.4	Wisconsin	9,014	642.1
Missouri	570	50.8	Wyoming	4	
			United States⁴	34,820	4,182.2

¹ Source: Agricultural Research Service, USDA. Totals may not add due to rounding. ² Totals may not add due to rounding. ³ Fewer than 500.

⁴ Includes Puerto Rico with 170 members and 41,840 cows tested:

Appendix Tables

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
BEANS AND PEAS,	DRY EDIBLE		FRUITS AND VEGET	ABLES5 (Continued)	
California	3	762	Massachusetts	4	487
Other States	4	2,097	Michigan	16	3,457
Jnited States	7	2,859	Minnesota	3	290
Tilled States	1	2,009	Mississippi	4	257
COTTON'			New Jersey	10	893
California	3	2,187	New York	9	935
dississippi	3	2,107	North Carolina	4	115
exas	4	24,908	North Dakota	3	179
other States	6	12,538	Ohio	5	460
oreign6	0		Oregon	12	1,437
oreigno	-	127	Pennsylvania	6	585
Inited States	16	42,671	Texas	5	339
			Washington	21	5,026
AIRY			Other States	22	4,328
alifornia	10	1,774	Foreign6		104
inois	4	2,406	Linited Otatas	250	40.075
owa	6	5,015	United States	259	43,975
lassachusetts	3	243	CDAING AND OILCE	EDC EVOLUDING O	OTTONOCCO
lichigan	3	3,993	GRAINS AND OILSE		
linnesota	45	17,348	Arkansas	3	1,259
lissouri	3	3,839	Colorado	16	8,830
ew York	63	5,763	Idaho	5	1,275
orth Dakota	5	1,137	Illinois	123	101,555
hio	7	3,942	Indiana	22	31,638
regon	3	803	lowa	133	94,930
ennsylvania	21	6,438	Kansas	124	115,005
exas	5	1,908	Michigan	6	2,801
irginia	4	1,142	Minnesota	107	69,543
/isconsin	31	29,375	Mississippi	6	2,558
ther States	21	19.752	Missouri	21	23,255
	000	404.070	Montana	13	9,411
nited States	236	104,878	Nebraska	73	69,596
DILITO AND VEGE	TADL 50		North Dakota	133	61,197
RUITS AND VEGE			Ohio	42	31,422
izona	4	699	Oklahoma	41	29,487
kansas	5	384	Oregon .	3	3,630
alifornia	71	20,439	South Dakota	70	51,320
olorado	9	455	Texas	38	18,773
orida	27	2,022	Washington	25	10,110
eorgia 	4	112	Other States	10	3,903
awaii	10	430	Foreign ⁶	_	3,511
laine	5	542	United States	1,014	745,009

Appendix Table - Number of co-ops 1 and membership* by major business activity and State,19973 (continued)

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
LIVESTOCK ⁵			TOBACCO 8		
Alabama	6	5,240	Kentucky	5	78,135
Hawaii	4	10,341	North Carolina	8	24,908
Idaho	3	4,832	Tennessee	7	67,582
Illinois	3	40,993	Virginia	3	1,374
Indiana	3	2,301	Other States	3	948
Kentucky	4	671	11.7. 10		470.047
Michigan	4	34,969	United States	26	172,947
Mississippi	6	5,112			
Missouri	7	4,805	WOOL AND MOHAIR	_	4 00=
North Dakota	8	9,548	Idaho	5	1,825
Ohio	4	14,483	Montana	20	872
Virginia	5	1,311	North Dakota	5	433
West Virginia	3	485	Ohio	3	1,722
Wisconsin	5	3,782	Pennsylvania	16	1,616
Other States	23	96,905	Utah	4	420
Foreign6		233	Virginia	8	568
-			Wyoming	4	185
United States	88	236,011	Other States	23	9,007
NUT ⁸			Foreign6		96
	_	0.774	United States	88	16,744
California	5	6,771			
Other States	12	34,884	MISCELLANEOUS"		
United States	17	41,655	Alaska	9	7,469
			California	11	952
POULTRY9			Florida	6	315
California	3	83	Georgia	3	295
Utah	3	108	Hawaii	7	806
Other States	14	33,724	Maine	15	918
Foreign6		378	Michigan	3	128
	_		Minnesota	6	1,932
United States	20	34,293	Mississippi	3	184
			North Dakota	7	5,440
RICE ⁵	_		Oregon	3	333
California	5	1,978	Washington	5	749
Louisiana	3	208	Other States	23	9,475
Texas	6	1,100			
Other States	4	10,682	United States	101	28,996
Foreign6	_	1			
United States	18	13,969	TOTAL MARKETING		
J.mod Jidioo	. •	. 5,555	Alabama	10	14,517
SUGAR ¹⁰			Alaska	9	7,675
Idaho	7	2,306	Arizona	5	2,569
Louisiana	9	529	Arkansas	14	14,205
Michigan	8	2,797	California	117	37,853
Minnesota	3	2,225	Colorado	28	13,331
Montana	3	540	Florida	38	6,076
Wyoming	4	586	Georgia	12	22,128
Other States	4 17	4,840	Hawaii	25	11,874
			ldaho	24	13,114
Foreign6		2	Illinois	134	145,509
United States	51	13,825	Indiana	26	37,048

Appendix Table I- Numbe	r of co-ops ¹ and	membership ² by	major business activ	rity and State,199	7 ³ (continued)
State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
TOTAL MARKETING ((Continued)		FARM SUPPLY (Con	itinued)	
lowa	147	111,475	Kentucky	28	121,873
Kansas	124	118,592	Louisiana	21	8,899
Kentucky	13	82,228	Maryland	13	52,414
_ouisiana	18	3,070	Massachusetts	4	3,583
Maine	22	1,850	Michigan	27	18,095
Maryland	3	1,102	Minnesota	156	121,795
Massachusetts	10	1,069	Mississippi	37	89,728
Michigan	41	50,042	Missouri	43	122,522
Minnesota	169	147,838	Montana	39	16,798
Mississippi	23	12,867	Nebraska	43	33,924
Missouri	31	32,930	New York	11	33,488
Montana	40	12,197	North Carolina	3	45,346
Nebraska	81	75,151	North Dakota	115	48,872
New Jersey	15	2,860	Ohio	23	14,243
New Mexico	4	6,549	Oklahoma	32	25,921
New York	79	9,283	Oregon	13	12,675
North Carolina	20	26,869	Pennsylvania	7	31,458
North Dakota	166	80,077	South Dakota	73	50,544
Ohio	65	53,715	Tennessee	73 70	70,565
Oklahoma	45	42,392	Texas	48	38,031
		9,064	Utah		
Oregon Denne divenie	25	9,004 8,776		8	5,642
Pennsylvania	46		Virginia	38	118,430
South Carolina	4	3,327	Washington	31	10,534
South Dakota	72	59,951	West Virginia	14	59,636
ennessee	8	68,950	Wisconsin	120	115,699
exas	69	53,677	Wyoming	6	3,454
Jtah	12	3,934	Other States	13	92,227
ermont	5	1,641	Foreign6		582
'irginia	23	27,453	United States	1,386	1,743,231
Vashington	56	17,487		,,	.,,
Vest Virginia	6	1,533	SERVICE'*		
Visconsin	42	35,617	Alabama	5	177
Vyoming	8	1,236	Arizona	4	788
Other States	7	2,679	Arkansas	6	1,047
oreign6		4,452	California	48	3,904
Jnited States	1,941	1,497,832	Hawaii	5	116
Tilled States	1,541	1,497,002	Illinois	4	73
ARM SUPPLY				3	
	48	39,097	lowa	3	1,728 105
llabama Irkansas	48	· ·	Kansas	3 11	
		47,990 14,058	Louisiana Michigan		1,587
California	20	14,958	Michigan	5	5,643
Colorado	22	20,317	Minnesota	43	26,425
Torida	6	8,952	Mississippi	23	7,342
Georgia	7	2,596	Nebraska	3	472
daho	16	9,965	New Mexico	4	1,386
linois 	65	87,647	New York	6	7,598
ndiana	32	53,766	North Carolina	6	120
owa	73	74,655	North Dakota	16	496
Kansas	, 21	16,310	Ohio	7	7,264
			Oklahoma	24	7,118

Continued

Appendix Table 1— Number	of co-ops1 and	memberships ²	by major business activi	ity and State,19	97³ (continued)
State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
SERVICE ¹² (Continued)			TOTAL (Continued)		
Pennsylvania	7	13,144	Ohio	95	75,222
Texas	155	37,123	Oklahoma	101	75,431
Washington	4	2,970	Oregon	40	21,747
Wisconsin	50	26,245	Pennsylvania	60	53,378
Other States	22	30,234	South Carolina	6	3,745
Halfard Otataa	404	400 405	South Dakota	145	110,927
United States	464	183,105	Tennessee	79	141,185
TOT 41			Texas	272	128,831
TOTAL	0.0	50.704	Utah	21	11,550
Alabama	63	53,791	Vermont	• 5	6,340
Alaska	9	7,675	Virginia	63	150,011
Arizona	10	46,757	Washington	91	30,991
Arkansas	60	63,242	West Virginia	20	61,235
California	185	56,715	Wisconsin	212	177,561
Colorado	51	33,648	Wyoming	14	4,690
Connecticut	4	3,174	Other States	5	2,793
Delaware	3	29,685	Foreign ⁶		5,034
Florida	46	27,1 24	. orolgii		<u> </u>
Georgia	21	25,059	United States	3,791	3,424,168
Hawaii	32	13,397	1 Indudes controlized and	fodorated according	upp and there with
daho	41	23,079	Includes centralized and mixed organizational stream	•	ves and those with
Ilinois	203	233,229	² Revised. includes farmer		o vote for directors)
Indiana	60	90,91 5	but not nonvoting patron	,	,
lowa	223	187,858	figures occurs because r		
Kansas	148	135,007	cooperative.) Totals may		
Kentucky	42	208,606	³ Data covering operations ended in 1997. States lis	•	•
Louisiana	50	13,556	cooperatives or where di		
Maine	24	9,214	Cotton ginning cooperation	•	
Maryland	18	54,122	cooperatives.		
Massachusetts	14	5,050	5 Cooperatives performing	•	•
Michigan	73	73,780	in this group were includ	•	
Minnesota	368	296,058	federation that perform the counted.	ne actual marketing o	or processing were
Mississippi	83	109,937	⁶ Includes memberships lo	cated in other countr	ies.
Missouri	75	156,093	⁷ Excludes soybean meal		100.
Montana	79	28,995	⁸ Membership fluctuates ar	nnually and is affecte	d by the extent to
Nebraska	127	109,547	which producers participa		
New Jersey	19	7,724	⁹ Includes eggs, turkeys, ra		
New Mexico	9	8,311	¹⁰ Includes sugar, sugarcal molasses, and sorghum	-	ey, mapie syrup,
New York	96	50,369	¹¹ Includes forest products,		stock, coffee, and
North Carolina	29	72,335	other farm products not		
North Dakota	297	129,445	Cooperatives providing s purchasing activities. Ma trucking, storing, grindin	services related to major services provided	arketing or I are cotton ginning,

| Appendix Table 2— Cooperatives' business volume | Business volume | State | Business volume | State | State | Gross | Net | State | Gross | Net | State | St

PRODUCTS WARKETED:			FRUITS AND VEG	SETABLES (CONTINU	•
			Massachusetts	530,847	530,847
BEANS AND PEA	S, DRY EDIBLE		Michigan	594,750	483,638
California	89,081	89,081	Minnesota	3,522	3,522
Other States	99,910	99,910	Mississippi	11,926	11,478
United States	188,991	188,991	New Jersey	204,968	204,968
Officed States	100,991	100,991	New York	310,519	285,781
COTTON			North Carolina	29,270	27,751
	660 564	607 225	North Dakota	10,887	10,887
California	662,564	607,335	Ohio	6,241	6,241
Mississippi	384,464	371,889	Oregon	795,955	794,784
Texas	940,528	939,974	Pennsylvania	334,682	324,706
Other States	1,086,781	1,084,688	Texas	49,879	16,394
United States	3,074,337	3,003,886	Washington	867,920	862,568
			Other States	930,553	917,304
DAIRY			Foreign3	15,091	15,091
California	3,107,394	2,945,132	•		
Illinois	1,195,595	975,839	United States	9837,141	9,268,189
lowa	1,164,679	1,026,053			
Massachusetts	58,125	55,772		SEEDS, EXCLUDIN	
Michigan	705,268	686,999	Arkansas	296,682	258,326
Minnesota	2,700,430	2,281,830	Colorado	282,053	268,666
Missouri	1,136,673	967,669	Idaho	42,165	42,071
New York	1,648,294	1 ,171,679	Illinois	2,679,085	2,516,121
North Dakota	194,963	163,812	Indiana	732,323	712,298
Ohio	981,016	930,480	Iowa	4,808,129	4647,143
Oregon	303,227	258,790	Kansas	2,055,805	1,857,357
•	1 ,170,426		Michigan	136,923	130,162
Pennsylvania Texas	902,972	976,137	Minnesota	4,279,883	3,446,416
		851,742	Mississippi	152,100	150,267
Virginia	121,115	112,589	Missouri	978,608	811,773
Wisconsin	4,438,688	3,982,844	Montana	392,483	262,009
Other States	6,449,093	5,986,703	Nebraska	2,369,748	2,156,557
United States	26,277,957	23,374,069	North Dakota	1,978,377	1,635,018
			Ohio ~	867,857	842,806
FRUITS AND VEG	SETABLES		Oklahoma	314,118	289,403
Arizona	152,410	133,225	Oregon	557,137	395,410
Arkansas	1,337	1,337	South Dakota	1,489,032	1,250,125
California	3,673,516	3,367,469	Texas	1,224,510	697,949
Colorado	18,056	18,056	Washington	753,804	655,433
Florida	1,228,521	1 ,190,207	Other States	1,008,756	843,188
Georgia	16,701	12,344	Foreign3	1.383.168	770,665
Hawaii	24,190	24,190	-		·
Maine	25,400	25,400	United States	28,782,746	24,639,161
IVIAIIIC	23,400	25,400			

Appendix Table 2— Cooperatives' business volume¹ by commodity and State, 1997² (continued)

State	Business volume		•	Business volume	
	Gross	Net	State	Gross	Net
	1,000 dollars			1,000	dollars
LIVESTOCK			SUGAR		
Alabama	61,039	61,039	Idaho	455,573	335,616
Hawaii	23,172	23,172	Louisiana	293,726	293,726
Idaho	66,304	66,304	Michigan	120,495	120,495
Illinois	628,659	627,249	Minnesota	633,023	633,023
ndiana	277,997	277,869	Montana	53,731	53,731
Kentucky	77,629	77,629	Wyoming	52,673	52,673
Michigan	397,759	397,759	Other States	813,603	789,034
Mississippi	86,523	86,523	Foreign3	5,294	5,294
Missouri	551,673	551,673	-		
North Dakota	123,308	120,214	United States	2,428,119	2,283,591
Ohio	314,034	314,034	TOD 4 000		
/irginia	27,956	27,956	TOBACCO	000 000	
Vest Virginia	2,402	2,402	Kentucky	286,023	286,023
Visconsin	448,197	444,975	North Carolina	231,176	231,176
Other States	4,305,890	4,290,556	Tennessee	68,695	68,695
oreign3	90,995	90,995	Virginia	3,406	3,406
Jnited States	7,483,538	7,460,349	Other States	3,575	3,575
NUTS			United States	592,876	592,876
California	694,469	694,469	WOOL AND MOHA		
Other States	185,807	185,807	Idaho	50	50
			Montana	680	680
Jnited States	880,276	880,276	North Dakota	60	60
_			Ohio	8,429	804
POULTRY'			Pennsylvania	220	220
California	36,334	36,334	Utah	1,776	1,776
Jtah	134,246	134,246	Virginia	85	85
Other States	1,947,438	1,947,438	Wyoming	563	563
Jnited States	2,118,017	2,118,017	Other States Foreign	6,772 297	6,772 297
RICE			United States	18,931	11,306
California	228,822	227,488		-,	, 2 0 0
ouisiana.	18,115	18,115	MISCELLANEOUS	MARKETING5	
exas	57,046	57,046	Alaska	11,583	11,583
Other States	627,505	627,505	California	46,862	46,862
			Florida	39,469	39,469
Inited States	931.487	930,154	Georgia	7,253	7,253
			Hawaii	30,430	30,430
			Maine	33,286	33,286
		Manio			
			Michigan	73,720	73,720

State	Business volume			Business volume	
	Gross	Net	State	Gross	Net
	1,00	0 dollars		1,0	00 dollars
MISCELLANEOUS	MARKETING5(Cor	ntinued)	TOTAL FARM PRO	ODUCTS MARKETE	ED (Continued)
Mississippi	144,061	143,437	Tennessee	180,388	177,321
North Dakota	100,785	100,785	Texas	3,349,361	2,735,266
Oregon	101,860	101,860	Utah	466,043	454,676
Washington	149,787	149,787	Vermont	356,839	324,532
Other States	1,716,949	1,595,347	Virginia	223,407	207,334
oreign ³	111,870	111,870	Washington	2,909,220	2,739,142
			West Virginia	80,015	75,315
Inited States	3,335,031	3,091,660	Wisconsin	5,583,838	5,085,983
OTAL EAST 550	DUOTO MASKETT	· D	Wyoming	69,606	69,500
	DUCTS MARKETE		Other States	377,552	308,267
labama	820,882	817,312	Foreign3	1,606,715	994,212
llaska	11,583	11,583	-		
rizona	705,295	665,186	United States	85,949,447	77642,524
irkansas	1,424,071	1,376,465	E4 D14 011DD1 15	'0 DD0\"DED	
California	8,709,783	8,184,912	FARM SUPPLIE	S PROVIDED:	
olorado	576,596	559,816	0000 0007507		
lorida	2,184,453	2,138,103	CROP PROTECTA		
eorgia 	1,064,144	1,047,963	Alabama	46,546	45,146
awaii	100,080	100,080	Arkansas	185,726	93,832
aho 	1,129,126	1,004,175	California	36,945	26,644
inois 	4,558,569	4,171,689	Colorado	41,214	29,068
ndiana	1,534,292	1,450,553	Florida	17,743	15,138
owa	8,296,195	7,949,780	Georgia	147,832	144,807
ansas	2,987,577	2,748,145	Idaho	36,551	17,468
entucky	655,674	644,407	Illinois	563,760	308,900
ouisiana	701,620	62 1,869	tndiana	264,648	175,371
laine	109,676	108,270	Iowa	589,118	442,091
laryland	243,747	218,023	Kansas	128,587	105,675
lassachusetts	596,489	594,136	Kentucky	57,850	49,668
lichigan	2,079,555	1,943,414	Louisiana	61,324	28,434
linnesota	8,732,932	7,351,470	Maryland	18,847	16,785
lississippi	851,757	836,278	Massachusetts	2,448	2,448
lissouri	2,799,992	2,463,685	Michigan	38,006	26,905
lontana	520,027	389,542	Minnesota	412,151	339,159
ebraska	4,002,012	3,727,152	Mississippi	39,065	38,505
ew Jersey	256,916	250,928	Missouri	119,168	89,936
ew Mexico	562,203	550,215	Montana	51,750	33,404
ew York	2,312,397	1,811,043	Nebraska	230,430	179,219
orth Carolina	615,232	596,992	New York	38,958	36,076
orth Dakota	2,760,792	2,383,188	North Carolina	48,455	31,187
hio	2,405,401	2,292,388	North Dakota	178,660	140,063
klahoma	738,379	702,335	Ohio	101,787	89,950
regon	1,876,430	1,657,532	Oklahoma	28,768	17,808
ennsylvania	1,605,305	1,401,041	Oregon	49,122	35,178
outh Carolina	208,984	208,416	Pennsylvania	32,577	32,577
outh Dakota	2,008,297	1,692,889	South Dakota	183,596	145,805

Cooperatives' business volume by commodity and State, 1997² (continued) Appendix Table 2-Business volume Business volume State State Gross Net Gross Net 1.000 dollars 1.000 dollars **CROP PROTECTANTS** (Continued) FEED (Continued) Tennessee 121,576 63,593 Virginia 126,285 112,767 Texas 72,520 61.396 Washington 115,187 39,378 Utah 17,115 6,815 West Virginia 23,354 20,292 Virginia 27.983 23.849 Wisconsin 503,268 325.145 Washington 57,496 39.351 Wvomina 6,743 6,743 West Virginia 3,536 3,162 Other States 352,867 304,629 Wisconsin 185.899 134.394 Foreign3 193,883 104,385 Wyoming 12,998 2,943 8,147,076 **United States** 5,987,963 Other States 62,632 50.741 Foreign3 37,433 1,989 **FERTILIZER** United States 4,350,820 3,125,481 Alabama 140,551 97.491 Arkansas 226.377 115.427 **FFFD** California 116,222 137,921 Alabama 338.793 315,798 Colorado 129,841 87,280 Arkansas 158,530 92,611 40,698 Florida 121,903 California Georgia 187,196 126,481 123.844 119,788 Colorado 72,726 51.488 Idaho 63.479 30.265 Florida Illinois 128,822 126,750 923,191 465,614 Georgia 458,719 456.231 Indiana 581,176 294,916 Idaho 41,137 15,256 Iowa 630,753 965,166 Illinois 359.625 265.816 Kansas 401,188 300,441 Indiana 370,372 165,264 Kentucky 115.867 101.826 1.154.985 Iowa 796.087 Louisiana 57,725 28,130 276,163 201.158 Kansas Maryland 30,097 26,865 Kentucky 58.440 49.681 Massachusetts 3,906 3,906 Louisiana 59,495 36,196 Michigan 66,579 40,663 Maryland 44,986 40,815 Minnesota 742,113 455,242 Massachusetts 20,830 20,830 Mississippi 60,176 58,824 Michigan 63,111 57,524 Missouri 258,577 359,335 Minnesota 761.391 544.895 Montana 76.387 139.104 Mississippi 55,658 44,760 337.351 Nebraska 493,719 Missouri 299.859 205.005 New York 55,256 55,256 15,559 Montana 15,326 North Carolina 64,028 53,976 Nebraska 268,865 174,314 North Dakota 447,229 266,509 New York 141,070 133,055 Ohio 193,072 130,025 North Carolina 125,152 110,381 Oklahoma 152,297 97.109 North Dakota 69,785 56,579 Oregon 82.853 55.591 Ohio 144,594 144,217 Pennsylvania 51,059 51,059 Oklahoma 113,456 81,950 South Dakota 294.118 187,741 Oregon 118,597 Tennessee 26,758 243,241 111,736 Pennsylvania Texas 123,139 122,613 261,030 163,351 South Dakota Utah 256,153 208,874 50,156 28,457 Tennessee 212,035 116.438 Virginia 75.620 68.443 Texas 230,737 177,780 Washington 49,647 70,275 Utah 95,528 93,694 West Virginia 8,766 7,867

_	Busine	ess volume	_	Busine	ss volume	
State	Gross	Net	State	Gross	Net	
	1,000 dollars			1,000 <i>dollars</i>		
FERTILIZER (contin	nued)		PETROLEUM (conf	PETROLEUM (continued)		
Wisconsin	345,208	204,306	Wisconsin	544,859	462,117	
Wyoming	27,012	5,313	Wyoming	115,456	70,425	
Other States	115,513	90,104	Other States	142,604	141,695	
Foreign3	441,353	57,844	Foreign3	159,628	60,098	
United States	8,861,348	5,371,001	United States	10,591,991	6,756,086	
PETROLEUM			SEED			
Alabama	40,951	4,865	Alabama	32,394	20,878	
Arkansas	203,445	96,019	Arkansas	43,703	26,839	
California	6,525	6,525	California	22,195	22,195	
Colorado	359,301	195,946	Colorado	2,540	2,540	
Florida	11,778	9,734	Florida	6,302	5,650	
Georgia	81,302	15,802	Georgia	15,592	15,433	
Idaho	147,369	85,963	Idaho	16,787	9,497	
Illinois	677,455	478,585	Illinois	80,013	49,319	
Indiana	517,681	298,128	Indiana	48,825	24,130	
lowa	1 ,018,391	644,873	Iowa	67,446	45,695	
Kansas	1,246,265	393,733	Kansas	11,371	11,371	
Kentucky	1 90,51 4	115,747	Kentucky	28,322	25,363	
Louisiana	23,793	12,729	Louisiana	21,296	10,172	
Maryland	73,838	66,808	Maryland	10,584	9,431	
Massachusetts	15,964	15,964	Massachusetts	1,339	1,339	
Michigan	149,385	72,226	Michigan	10,165	9,951	
Minnesota	649,378	553,430	Minnesota	53,603	45,510	
Mississippi	20,348	19,171	Mississippi	18,708	18,655	
Missouri	598,669	456,450	Missouri	57,319	27,945	
Montana	195,483	146,099	Montana	7,189	5,621	
Nebraska	652,116	413,551	Nebraska	12,807	10,251	
New York	245,760	244,944	New York	23,328	23,328	
Namela Canalina	00.744	47.750			40.000	

North Carolina

North Dakota

Oklahoma 1

Pennsylvania

South Dakota

Tennessee

Washington

West Virginia

Texas

Utah

Virginia

Oregon

Ohio

14,668

35,156

26,245

4,200

11,508

17,520

17,815

66,640

19,079

3,072

25,757

24,248

4,032

North Carolina

North Dakota

Pennsylvania

South Dakota

Tennessee

Oklahoma

Oregon

Texas

Utah

Virginia

Washington

West Virginia

Ohio

20,714

357,469

143,449

306,110

170,484

225,325

358,376

171,580

233,786

229,668

180,282

22,966

83,524

17,753

275,332

119,272

131,932

121,359

224,828

254,895

73,270

134,318

19,389

144,610

136,616

20,885

Continued

12,363

32,755

26,245

4,200

11,470

17,520

14,932

39,971

19,026

3,072

23,260

23,252

3,648

Appendix Table 2— Cooperatives' business volume¹ by commodity and State, 1997² (continued)

State	Business volume			Business volume		
	Gross	Net	State	Gross	Net	
7,000 dollars				1,000) dollars	
SEED (Continued)			MISCELLANEOUS	S SUPPLIES" (Continued)		
Wisconsin	38,583	28,478	Wisconsin	244,176	228,306	
Nyoming	752	733	Wyoming	39,896	37,643	
Other States	20,425	19,962	Other States	168,112	139,319	
oreign3	3,835	349	Foreign³	57,806	12,766	
United States	925,364	702,351	United States	4,199,141	3,237,745	
MISCELLANEOUS S	SUPPLIES6		TOTAL FARM SUF	PPLIES		
Alabama	177,796	78,006	Alabama	777,030	562,184	
Arkansas	133,948	92,393	Arkansas	951,729	517,121	
California	125,649	96,002	California	516,431	394,068	
Colorado	59,185	45,900	Colorado	664,808	412,221	
Florida	102,041	59,157	Florida	388,589	257,128	
Georgia	90,330	69,199	Georgia	917,619	821,261	
daho	47,014	39,178	Idaho	352,337	197,628	
linois	144,296	86,622	Illinois	2,748,339	1,654,856	
ndiana	69,488	53,202	Indiana	1,852,190	1,011,011	
owa	228,635	165,002	Iowa	4,023,742	2,724,501	
Kansas	127,735	93,563	Kansas	2,191,310	1,105,942	
Centucky	73,472	61,590	Kentucky	524,467	403,875	
ouisiana	47,297	33,846	Louisiana	270,930	149,507	
/laryland	37,771	33,930	Maryland	216,103	194,635	
/lassachusetts	9,877	9,877	Massachusetts	54,364	54,364	
/lichigan	107,729	93,698	Michigan	434,975	300,967	
/linnesota	269,417	220,755	Minnesota	2,888,053	2,158,991	
/lississippi	60,783	60,783	Mississippi	254,737	240,698	
/lissouri	99,029	59,329	Missouri	1,533,379	1,097,241	
Montana 💮 💮	64,558	59,404	Montana	473,643	336,242	
lebraska	115,054	95,068	Nebraska	1,772,992	1,209,755	
lew York	161,401	139,200	New York	665,772	631,857	
North Carolina	48,801	36,697	North Carolina	321,818	262,356	
lorth Dakota	107,468	98,070	North Dakota	1 ,195,766	869,309	
Ohio	105,967	87,222	Ohio	715,115	596,930	
Oklahoma	45,369	32,198	Oklahoma~	650,201	365,199	
)regon	141,584	136,818	Oregon	574,149	387,174	
Pennsylvania	107,723	107,558	Pennsylvania	557,344	556,156	
South Dakota	90,354	77,517	South Dakota	1,200,412	889,764	
ennessee	206,677	111,438	Tennessee	1,021,748	516,447	
exas	102,734	82,174	Texas	919,886	638,045	
Jtah	48,096	41,981	Utah	297,492	193,408	
/irginia	172,187	136,895	Virginia	657,499	509,823	
Vashington	127,128	95,932	Washington	574,617	384,177	
Vest Virginia	32,559	29,509				

Appendix Table 2— Cooperatives' business volume¹ by commodity and State, 1997² (continued)

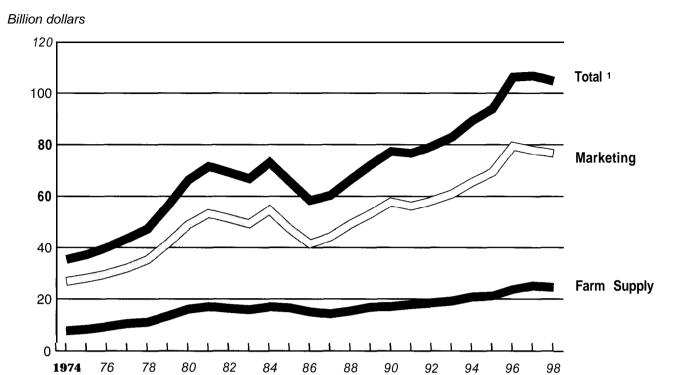
State	Busin	ess volume	State	Busin	Business volume	
	Gross	Net		Gross	Net	
	1,000 dollars			1,0	OO dollars	
TOTAL FARM SUF	PPLIES (Continued)		TOTAL: (Continu	ed)		
Vest Virginia	95,213	85,364	Hawaii	130,603	114,572	
Visconsin	1,861,993	1,382,745	Idaho	1,492,150	1,212,490	
Vyoming	202,858	123,799	Illinois	7,514,170	6,033,807	
Other States	862,152	746,450	Indiana	3,464,785	2,539,867	
oreign ³	893,937	237,431	Iowa	12,586,592	10,940,936	
J			Kansas	5,294,385	3,969,584	
Inited States	37,075,740	25,180,628	Kentucky	1,210,076	1,078,217	
NEDVIOLO DDOVI	IDED.		Louisiana	992,690	791,516	
ERVICES PROVI		00 =04	Maine	218,117	216,711	
llabama	23,784	23,784	Maryland	463,990	416,798	
rizona	26,320	26,320	Massachusetts	657,492	655,138	
rkansas	89,100	89,100	Michigan	2,588,057	2,317,907	
California	529,691	529,691	Minnesota	11,881,299	9,770,774	
lawaii	8,354	8,354	Mississippi	1,203,917	1 ,174,399	
linois	207,262	207,262	Missouri	4,490,879	3,718,435	
owa	266,655	266,655	Montana	1,002,676	734,790	
ansas	115,498	115,498	Nebraska	5,911,565	5,073,468	
ouisiana	20,141	20,141	New Jersey	356,512	345,035	
lichigan	73,527	73,527	New Mexico	62 1,939	608,117	
linnesota	260,313	260,313	New York	3,130,745	2,595,476	
lississippi	97,423	97,423	North Carolina	963,015		
ebraska	136,561	136,561			885,314	
ew Mexico	6,015	6,015	North Dakota	4,005,161	3,301 ,100	
ew York	152,576	152,576	Ohio	3,229,342	2,998,144	
orth Carolina	25,966	25,966	Oklahoma	1,424,333	1,103,286	
orth Dakota	48,603	48,603	Oregon	2,496,615	2,090,742	
hio	108,826	108,826	Pennsylvania	2,188,827	1,983,374	
klahoma	35,753	35,753	South Carolina	387,962	377,563	
ennsylvania	26,177	26,177	South Dakota	3,451,889	2,825,833	
exas	295,661	295,661	Tennessee	1,230,059	721,691	
/ashington	162,380	162,380	Texas	4,564,908	3,668,972	
/isconsin	80,522	80,522	Utah	806,244	690,794	
ther States	850,227	850,227	Vermont	429,234	396,927	
			Virginia ੍	905,881	742,131	
nited States	3,647,334	3,647,334	Washington	3,646,217	3,285,700	
			West Virginia	176,530	161,980	
OTAL:			Wisconsin	7,526,352	6,549,250	
labama	1,621,696	1,403,279	Wyoming	274,702	195,538	
laska	124,698	64,651	Other States	173,738	162,559	
rizona	786,643	737,821	Foreign3	2,500,652	1,231,643	
rkansas	2,464,900	1,982,686	U.S.	126,672,521	106,670,486	
alifornia	9,755,905	9,108,671	0.0.	120,012,021	100,070,400	
olorado	1,273,093	1,003,727				
onnecticut	266,727	205,367				
elaware	108,920	98,417				
lorida	2,663,194	2,485,382				
eorgia	2,012,445	1,899,906				

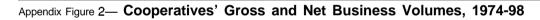
Footnotes to Appendix Table 2.

- ¹ Data covering operations of cooperatives whose business years ended during calendar 1997. Includes independent local cooperatives, federations, centralized regional cooperatives, and cooperatives with mixed organizational structures. The volume of products marketed was allocated to the State in which they were originated and the volume of farm supplies was allocated to the State in which they were sold; service volume and other income was allocated to the State of origin when services related to farm products marketed or to the State of destination when related to farm supplies sold.
- ² Gross business volume includes safes between cooperatives, while net business volume excludes sales. States listed had more than two cooperatives **handling** the commodity or farm supply or where disclosure was not a problem. Totals may not add due to rounding.
- 3 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.
- 4 Includes eggs, turkeys, ratite, squab, and related products.
- ⁵ Includes forest products, hay, hops, nursery stock, fish, coffee, seed marketed for growers, and other farm products not separately classified. Also includes manufactured food products and resale items marketed by cooperatives.
- 6 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.
- 7 Income from services related to marketing and purchasing activities, but not included in the volumes reported for these activities.

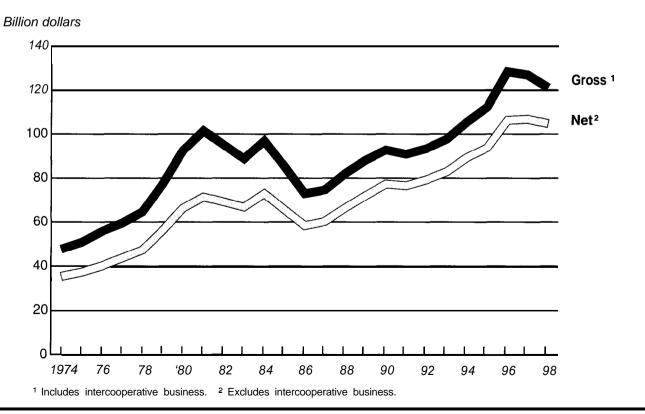
Appendix Figures



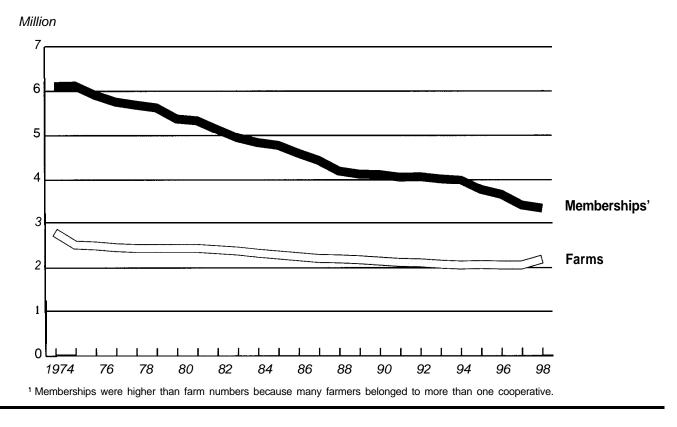




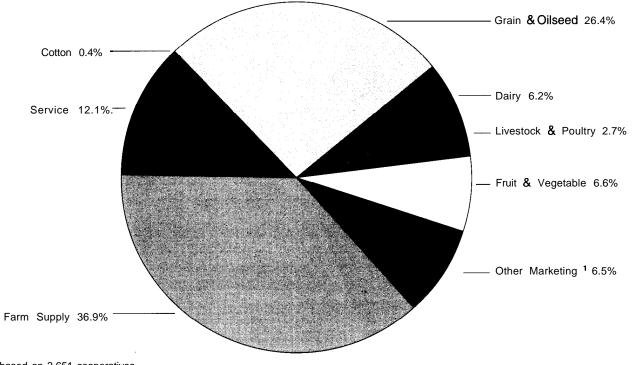
¹ Total includes value of related services and other income.



Appendix Figure 3— U.S. Farms and Farmer Cooperative Memberships, 1974-98



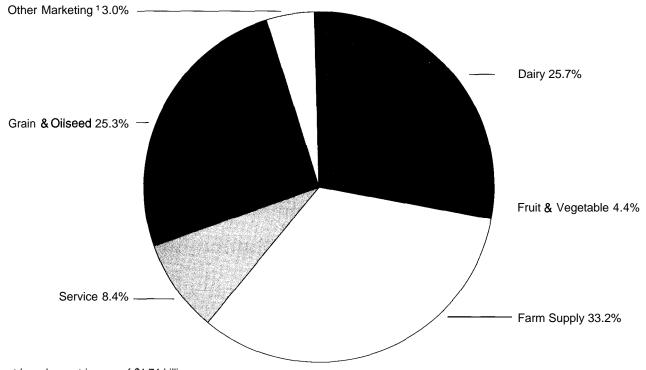
Appendix Figure 4— Distribution of Farmer Cooperatives by Type, 1998



Percent based on 3,651 cooperatives.

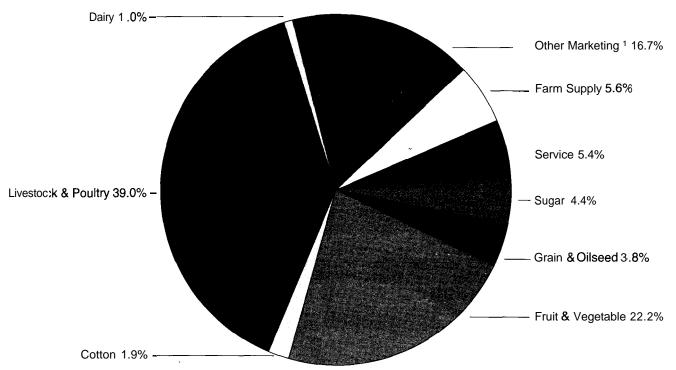
¹ Includes dry bean and pea, wool and mohair, nuts, rice, sugar, fishery, and other miscellaneous marketing cooperatives.

Appendix Figure 5— Distribution of Total Net Income by Type of Cooperative, 1998



Percent based on net income of \$1.74 billion.

Appendix Figure 6— Distribution of Total Losses by Type of Cooperative, 1998

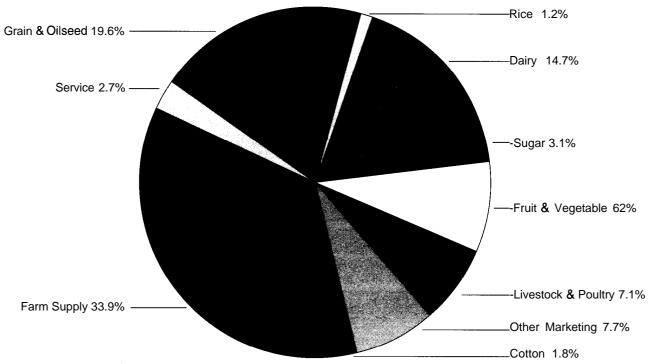


Percent based on losses of \$379.9 million.

¹ Includes dry bean and pea, nut, wool and mohair, tobacco, rice, sugar, fishery, and other miscellaneous marketing cooperatives.

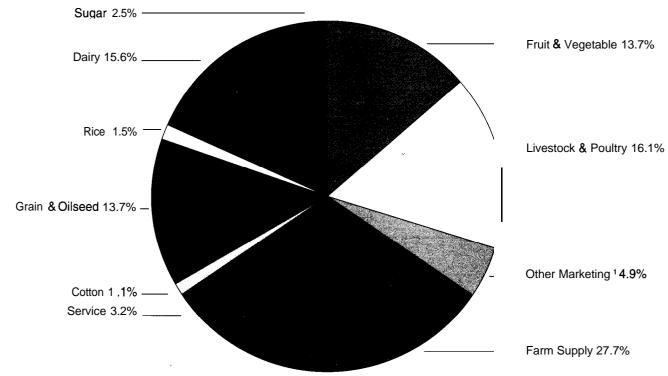
¹ Includes dry bean and pea, nut, wool and mohair, tobacco, rice, fishery, and other miscellaneous marketing cooperatives

Appendix Figure 7— Distribution of Total Net Worth by Type of Cooperative, 1998



Percent based on net worth of \$20 billion.

Appendix Figure 8— Distribution of Total Full-Time Employees by Type of Cooperative, 1998

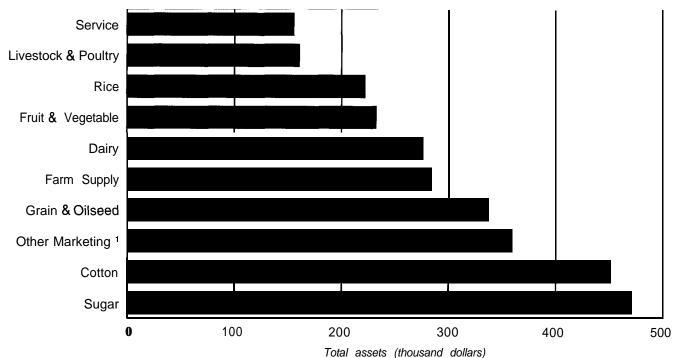


Percent based on 173,791 full-time employees.

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

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

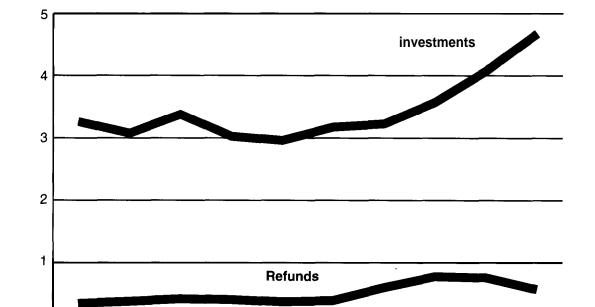




¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

Appendix Figure lo- Cooperatives' Investments in and Patronage Refunds Received From Other Cooperatives,' 1989-98

Million dollars



¹ Includes other farmer cooperatives, CoBank, and Banks for Cooperatives.

U.S. Department of Agriculture Rural Business-cooperative Service

Stop 3250

Washington, D.C. 20250-3250

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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